ENVIRONMENTAL ASSESSMENT AT THE POLLUTION ABATEMENT SERVICES (PAS) SITE IN OSWEGO, NEW YORK

APPENDIX B ORGANIC CHEMICAL ANALYSIS

Sample Results - Sediment, May, 1986

Prepared for :

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

50 Wolf Road, Albany, New York 12233

Henry G. Williams, Commissioner

DIVISION OF SOLID AND HAZARDOUS WASTE

Norman H. Nosenchuck, P.E. - Director

URS Company, Inc.
570 Delaware Avenue
Buffalo, New York 14202

PLATINUM CASE SUMMARY NARRATIVE--CASE #URS-WEST

The Quality Assurance Notices associated with Case #URS-WEST are included. This case consisted of 8 solid samples for the analysis of volatiles, semivolatiles, and pesticides for PCB's only. The samples were received on 5-12-86. The pH values of the samples were all within the EPA acceptable range. Moisture contents of the samples were high ranging from 17% to 74%. This resulted in significantly higher detection limits in some samples. The volatile holding blank was placed into cold storage at the time of sample receipt and contained no HSL compounds.

In the volatile fractions, all the samples contained methylene chloride and acetone. Sample CC#85005 also contained low levels of chloroform. There were no tentatively identified compounds found in any of the samples.

In the semivolatile fractions, samples CC#84986 and 85001 did not contain any HSL compounds. The other samples contained many polynuclear aromatic HSL compounds, usually at below detection limit levels. Tentatively identified compounds were found in all the samples, some of which were attributable to acetone contamination.

In the pesticide fractions, sample CC#85002 contained aroclor-1248 at high levels and may also contain aroclors 1242/1254 which were masked by the aroclor 1248. None of the other samples contained any PCB's although many of the samples did contain other pesticide HSL compounds.

Surrogate recovery criteria were met for all fractions of all samples, spikes, and blanks. The QC matrix spike/matrix spike duplicate results were acceptable for the volatile and semivolatile spikes. Due to the high level of aroclor 1248 present in the original for the pesticide sample spikes, spike recovery data was not calculatable. Therefore, we have included the blank spike data in which all criteria were met. The pesticide spikes are reported with a qualifier.

Janet C. Garrett

Janet C. Garrett 5-30-86
EPA Technical Analyst

Quality Assurance Notice Concerning Modifications to CompuChem's EPA-Contract Laboratory Program (CLP) Organic Analyses

The EPA issued IFB WA85-J664/J680 dealing with "Organic Analysis, Multi-Media, Multi-Concentration." The IFB contained revisions, dated 7/85, to the Statement of Work (SOW), the deliverables requirements, and certain data acceptance criteria. While the IFB was issued in order to solicit laboratory capacity for EPA Superfund requirements, laboratories that were already members of the CLP were requested to modify their existing contracts in order to comply with the 7/85 modifications.

Beginning with EPA samples received on January 22, 1986, CompuChem converted to and was in compliance with the 7/85 modifications. For commercial clients requesting analytical services equivalent to the EPA-CLP requirements, the January 22, 1986 implementation date applies to commercial samples as well.

The following is a list of changes required by the 7/85 modifications:

1. Three semi-volatile compounds have been eliminated from the Hazardous Substance List (HSL); N-Nitrosodimethylamine, Aniline, and Benzidine.

2. One pesticide compound has been eliminated from the HSL; Endrin Aldehyde.

3. One semi-volatile QC spiking compound has been eliminated from the matrix spike/matrix spike duplicate tests; di-n-butylphthalate.

4. The minimum response factor for bromoform has changed from 0.30 to 0.25. This pertains to the Initial and Continuing Calibration criteria for volatile compound standards.

5. Surrogate recovery criteria and advisory QC spiking compound recovery criteria have changed. The new criteria are contained on forms which will be supplied when results are reported.

6. The Contract Required Detection Limits (CRDL) for pesticide compounds in low concentration level soil/sediment samples have changed to reflect a change in the aliquot taken from the semi-volatile extract for pesticide processing.

7. VOA Holding Blank data are not required to be delivered. The Holding Blank is placed into refrigerated storage, together with samples, on the day the samples arrive. The Holding Blank is analyzed after all associated samples in order to demonstrate that the refrigerated storage does not promote contamination of the samples by volatile compounds in the storage environment. While

the Holding Blank analytical data is assessed and any anomalies addressed in the Narrative Section of the Report of Data, the actual hardcopy of the Holding Blank data is retained, on file, by the laboratory. It would be made available for any on-site audits or, by special request.

8. Certain deliverable requirements have changed. Included is the requirement that GC/MS quantitation reports for Initial and Continuing Calibrations be delivered.

9. Surrogate acceptance criteria for semi-volatile (water and soil/sediment samples) have changed. If two surrogates from the acid or base/neutral portions of the semi-volatile analysis fail to meet acceptance criteria or if any one acid or base/neutral surrogate is recovered below 10%, a re-extraction and re-analysis is required. This is performed in order to verify matrix effects. Both sets of data would be delivered. These new criteria refer to samples only. All surrogates must meet criteria in the Method Blank.

10. Additional pesticide GC columns (packed and capillary columns) are permitted for analyses. However, for compounds which may coelute on a particular column, the confirmation/quantitation analysis must be on a column which affords resolution.

11. The retention time criteria for the elution of 4,4'-DDT being equal to or greater than 12 minutes, pertains only to the mixed phase and not the OV-1 analysis for pesticides.

12. The Pesticide Evaluation Standard Summary Form (Form VIII) has been modified to allow a 72 hour sequence instead of a 24 hour sequence.

13. The pesticide policy for allowable percent breakdown of endrin and 4,4'-DDT has changed. Originally, the percent breakdown for 4,4'-DDT could not exceed 5% and for endrin, 10%. The new criteria stipulates that the percent breakdown on the mixed phase column for endrin or 4,4'-DDT must not exceed 20%. (CompuChem has established a policy which allows for the combined percent breakdown on the mixed phase column not to exceed 20% and the percent breakdown for either endrin or 4,4'-DDT not to exceed 10%.) For the OV-1 column, the new criteria stipulates that the combined endrin/4,4'-DDT breakdown must not exceed 20%.

14. The pesticide policy for allowable percent differences of Calibration Factors for each compound in the Individual Standard Mixture A or B has changed. Originally, the Calibration Factor for each standard could not exceed a 10% difference for a quantitation run nor exceed a 20% difference for a confirmation run. The new criteria stipulates that the Calibration Factor for each standard cannot exceed a 15% difference for a quantitation run. The 20% difference criteria for a confirmation run has not changed.

If any additional explanation or clarification is needed regarding the

above changes, please feel free to contact your Customer Service Representative .

Robert E. Meierer,
Director, Quality Assurance

QUALITY ASSURANCE NOTICE

sample # 84558-55

case # VES West

The following qualifications should be noted when reporting and/or interpreting data for the pesticide fraction of this sample. These data qualifiers are used when special circumstances exist in the sample preparation or sample matrix which were beyond the laboratory's control.

[ ] no surrogate recovery data available due to a ____:1 dilution factor

[ ] no spike recovery data available due to a ____:1 dilution factor

[ ] no spike and/or surrogate recovery data available due to severe matrix interferences*

[ ] variations between duplicate samples or sample spikes have been attributed to the inhomogeneous nature of the soil matrix

[✓] the following spike or surrogate compounds exhibited interferences which affected accurate quantitation:

Gamma BHC	Aldrin	Endrin
Heptachlor	Dieldrin	pp' DDT

[✓] additional data reviewer comments:

High concentration of PCB 1248 are interfering with spiking compounds by co-eluting with them, making it impossible to accurately quantify them.

reviewer's initials DPM

date 5-22-86

*the presence of PCBs and related compounds often "mask" these standards and prevent accurate identification and quantitation

QAN2G
850125

QUALITY ASSURANCE NOTICE
sample # R4997_55
case # URS West

The following qualifications should be noted when reporting and/or interpreting data for the pesticide fraction of this sample. These data qualifiers are used when special circumstances exist in the sample preparation or sample matrix which were beyond the laboratory's control.

[ ] no surrogate recovery data available due to a ____:1 dilution factor

[ ] no spike recovery data available due to a ____:1 dilution factor

[ ] no spike and/or surrogate recovery data available due to severe matrix interferences*

[ ] variations between duplicate samples or sample spikes have been attributed to the inhomogeneous nature of the soil matrix

[X] the following spike or surrogate compounds exhibited interferences which affected accurate quantitation:

Lindane (Gamma BHC) Aldrin Endrin
Heptachlor Dieldrin 4-4' DDT

[X] additional data reviewer comments:

PCB 1248 at high concentrations are interfering with spiking compounds, making it impossible to quantify them.

reviewer's initials DPM
date 5-22-86

*the presence of PCBs and related compounds often "mask" these standards and prevent accurate identification and quantitation

Q4N2G
B50125

SEMIVOLATILE CALCULATIONS FOR HSL COMPOUNDS AND SURROGATES

Soil samples are processed following the latest CLP Contract Modifications (7/85). Joan Fisk, Project Officer for the EPA, has agreed to allow CompuChem to concentrate SV extracts to a final volume of 0.9 ml, rather than 0.95 ml as written. Since our concentrator tubes are graduated in increments of 0.1 ml, this change will allow for greater accuracy in the concentration process. Below are the Base/Neutral and Acid calculations for various analytical requirements.

	Final Volume	Split Ratios pest : BNA	BNA Calculation
BNA fractions only	1.0 ml	-----	$\frac{1.0 * DWF * 30.0 * 33.3}{295/300) * ASW}$
Pesticide only	1.0 ml	1.0 : 9.0	$\frac{0.9 * DWF * 30.0 * 33.3}{(295/300) * (9.0/10) * ASW}$
BNA and Pesticides	BNA = 0.9 ml pest= 1.0 ml	1.0 : 9.0	$\frac{0.9 * DWF * 30.0 * 33.3}{(295/300) * (9.0/10) * ASW}$

where,

DWF = Dry Weight Factor of Sample
ASW = Actual Sample Weight used in preparation
33.3 = Conversion from ug/l to ug/kg, for reporting soil concentrations

Reference the sample package for the CLIST (computer-generated HSL listing which includes calculation formulae) as noted in the Index.

Bob Meierer,
Director of Quality Assurance

DETECTION LIMIT CALCULATION CLARIFICATION (FOR INCLUSION IN ALL EPA CASE REPORTS).

To protect our GC columns from unnecessary contamination samples prepared according to Caucus protocol method are routinely diluted 5:1. Through a series of experiments we have determined that our instrument detection level for pesticides is 5x lower than the EPA required reporting level. We, therefore, only adjust our detection limits if the dilution necessary to analyze the sample is greater than 5:1. If the sample is diluted by a factor of X the detection limit is adjusted by $\frac{X}{5}$ instead of X.

J. n B Henes

Jill B. Henes,
Director of GC Dioxin Program

Bob Meierer

Bob Meierer,
Director of Quality Assurance

LABORATORY NOTICE

On June 15, 1985 CompuChem Laboratories began adding D3-2,4-Dinitrophenol to all standards and samples. The purpose of this addition is to enable the laboratory to have higher and more consistent analytical sensitivity for the native 2,4-Dinitrophenol. The peak corresponding to the deuterated analog is clearly labeled on each RIC as D3#1 and will not be searched and reported as a tentatively identified compound (TIC). This compound is not being used as an internal or surrogate standard.

L. Richard Flynn,
Development Chemist

Bob Meierer,
Director of Quality Assurance

QA NOTICE FOR PCB 1221 + PCB 1254 STANDARDS

CompuChem, in a telephone conversation with Dr. Fred Haeberer on 10/2/84, received permission to allow the laboratory to run standard mixtures containing PCB 1221 and PCB 1254. At that time, Dr. Haeberer was the Organics Project Manager for the Contract Laboratory Program (CLP). Permission was granted since, in one injection, proper resolution of the two standards could be obtained.

This notice serves to provide an explanation for delivering a single standard chromatogram containing both PCB 1221 and PCB 1254.

Robert E. Meierer March 24, 1986
Director of Quality Assurance

CONDITION CODES SOP--revised 1-9-86

CompuChem Laboratories uses the following Condition Codes to signify either the cause of a sample fraction failure or the final status of a sample before release. The "Comments" here describe the consequences of a condition code, the type of analysis for which the code applies, and/or special instructions for using the code. These codes are entered in the CLMS system under the COND column of the Sample Detail database, and govern the release of samples to the client.

This code list is divided into three main sections. The first group of codes represent "Failure" codes, and apply to all samples which must be repeated because all criteria have not been met. These codes will appear in the prior (P) slots of the Sample Detail. The next group are "Final" codes used for production samples which have met criteria and may be released as is or with a standard QA Notice supplied to each of the individual lab stations. The last group are "Final" codes for QC samples; part A consists of codes also used for production samples, while part B is a list of codes which apply only to QC samples. This list covers QC data which does not meet all QC criteria, but is "salvageable" by QA if the associated samples are not effected.* Codes from groups II and III will appear only in the final (F) slots of the Sample Detail.

At the end of this SOP is an Appendix which chronicles changes to the list. It is critical that only the most recently revised list be used in each department. This section also serves to clarify misinterpretations or misuses of the codes, and further explain applications of various codes. The individual laboratory stations are responsible for assigning codes to each paperwork issued, even if no injection is made. Every scheduling detail must have a condition code assigned. Any questions concerning condition codes should be addressed to Bob Whitehead. These codes are monitored periodically to insure correct application and pinpoint trends for feedback to management. This SOP must be read and signed by all those responsible for assigning or altering condition codes.

CODE	EXPLANATION/COMMENTS
I. FAILURE CODES FOR ALL PRODUCTION AND QUALITY CONTROL SAMPLES:	
AH =Acid surrogates High	Verify vial volumn and I.S. areas
AL =Acid surrogates Low	Use only when not chromatography related (PC)
BB =Bad associated Blank	Use for samples NOT analyzed due to bad blank--see Appendix
BF =Blank requires Florisil cleanup	When associated pests florisilled
BH =Base/neutral surrs High	See AH code
BL =Base/neutral surrs Low	See AL code
BS =Bad associated Spike	Use for samples reprepared due to bad associated sample spike
BU =Back-Up extract; screened Medium	Extracted Low Level, but not run
CA =CAncelled	All samples (incl. QCs) cancelled and never analyzed (fill out form
CL =needs secondary CLeanup	TCDDs requiring alumina cleanup
CO =COncentration required	Vial volume above mark
CS =Carryover Suspected from prior analysis	Reinject if rest of data O.K.; see Appendix
CT =ConTamination suepected	Applies only to effected samples i which contamination is verified
DI =requires DIlution	Lab may dilute or require reextrac ueing less raw sample
DW =Wrong Dilution chosen	Lab must rerun at correct dilution
EO =Extract went to Dryness	Usually reextract
FO =FOamed during purging	VOAs; reprep at dilution, repurge
IF =Instrument Failure; data lost	Must describe failure in Comments
IH =Internal standard(s) High	Reinject unless I.S. solution adde to extract; also see IL
IL =Internal standard(s) Low	If ext.std. not appropriate, shoul reinject or reextract.
IM =Internal standard Missing	Solution not added during prep.
IR =Ion Ratios outside range	TCDDs
IW =Wrong Instrument	Injected on wrong DWA--reinject
JS =reinJection Same as prior analysis	Use if data fails for same reason; see Appendix
LA =Lab Accident; sample/data lost	Describe LA in Comments section
LS =Screened Low, but really high level	GC/MS run indicates Medium Level
MS =Screened Med, but really clean	GC/MS results indicate Low Level
NM =did Not Match prior run or duplicate	Applies to appearance of sample extracts or RICs, not % recoveri
OT =OTher	Describe failure in Comments
OW =Wrong Original used for QC sample	Automatic reextraction
PC =Poor Chromatography	Perform maintenance if necessary
RI =Recovery Indeterminate	TCDDs
RN =Reanalyze Neat; was run as a dilution	Used when RIC relatively clean
RO =signal-to-noise Ratio Out	TCDDs
RU =Repeated Unnecessarily	An acceptable prior run exists; see Appendix
SF =Spike recoveries Failed	See BDPs for approval criteria
SH =Surrogate(s) uniformly High	See AH, AL codes and Appendix
SI =Spiked Inadvertently	Automatic reextraction
SL =Surrogate(s) uniformly Low	See AH, AL codes and Appendix
SM =surrogate or spike Standard Missing	Solution not added inadvertently
SW =Wrong Standard(s) used	Usually automatic reextraction
UP =Unacceptable Precision between QCs	For comparing SS's or Duplicates (RPDs between spikes,hits,surrs.)
VC =purge Vessel Cracked	VOAs; reprep sample and repurge
VR =Verify Results	Sample repeated to verify hits,etc

II. FINAL CODES FOR PRODUCTION SAMPLES: data to be reported

DA =Dilution Acceptable	Sample required reanalysis as a dilution; criteria met/qualified
EA^=re-Extraction data Acceptable	For sample reextracted at least once, even if also reinjected
EB^=re-Extraction data Billable	Recovery is within +/- 5% of the failing surrogate's recovery
ES^=re-Extraction Same as prior extraction	QAN required; "matrix" effects confirmed; all data comparable
JA^=reinJect data Acceptable	For sample only extracted once and reinjected successfully
NS =No Sample left for re-extraction	QAN required; lab responsible for determining deliverability of data
OK^=data acceptable first time through	NEVER USE FOR REPEAT STATUS; first injection acceptable as is
RP =Reportable Prior run	Edit failure code to RP if run is reportable; see Appendix

III. FINAL CODES FOR QUALITY CONTROL SAMPLES*

A. QCs that meet criteria or require laboratory-supplied qualifier:

AN =QC Acceptable but Not reported	Blanks and blank spikes tripped by system AND RUN but not needed
CA =QC CAncelled and not reported	All samples (incl. QCs) cancelled and never analyzed (fill out form)
DA =Dilution Acceptable	QC required rerun as dilution; criteria met/qualified by lab
EA^=re-Extraction data Acceptable	For QC sample re-extracted; all criteria met/qualified by lab
B^=re-Extraction data Billable	Recovery is within +/- 5% of the failing surrogate's recovery
JA^=reinJection data Acceptable	QC reinjected; all criteria met/ qualified by lab
OK^=data acceptable first time through	First injection of first QC extract; met/qualified by lab
RP =Reportable Prior run	Edit failure code to RP if run is reportable; see Appendix
UN =QC Unacceptable but Not used	Blanks and blank spikes tripped and run but not needed (see AN code)

B. QCs that don't meet criteria and/or require special QA intervention (QA approval or QA-supplied qualifier) for production sample release:

DQ =QC required Dilution and qualified	Not acceptable unless QA approves or inserts special Notice
EQ =QC re-Extracted and qualified	Not acceptable unless QA approves or inserts special Notice
JQ =QC reinJected and qualified	Not acceptable unless QA approves or inserts special Notice
NQ =No sample left for re-extraction of QC	Not acceptable unless QA approves or inserts special Notice
OQ =QC is OK and qualified	Not acceptable unless QA approves or inserts special Notice (see Appendix)

these are the only codes that will allow associated production samples to "blast" into Phase II. All other codes will hold samples in Phase I.

^these are the codes for runs which have valid surrogate data to be entered into the system and used for updating surrogate control limits.

1A

III. SAMPLE DATA PACKAGE

MAY 1986

CASE NO. URS ~~QUEST~~

SAMPLE NO. B-SEDIMENT = COMPUCHEM NO. 84990

Site No. 1A

A. Sample data in increasing SMO Number order:

1. Copy of Sample Traffic Report
2. HSL Results — Organic Analysis Data Sheet (Form I)
3. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.
4. Raw Data — in order: VOA, BNA, Pesticide

1. Copy of Sample Traffic Report

2. HSL Results — Organic Analysis Data Sheets (Form I)

Sample Number
S-SED01EW1

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Compuchem
Lab Sample ID No: GH08499301S
Sample matrix: solid
Data Release
Authorized By: _____

Case: UBS WEST
SC Report No: _____
Contract No: PLAT1NUM
Date Sample
Received: 05-12-86

Volatile Compounds
Concentration: Low
Date extracted/prepared: 0513-86
Date analyzed: 05-15-86
Conc/Dil Factor: 1.77 pH: 7.06
Percent moisture (not decanted): 44%

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	18.	U	10061-02-6	trans-1,3-Dichloropropene	8.8	U
74-83-9	Bromomethane	18.	U	79-01-6	Trichloroethene	8.8	U
75-01-4	Vinyl Chloride	18.	U	124-48-1	Dibromochloromethane	8.8	U
75-00-3	Chloroethane	18.	U	79-00-5	1,1,2-Trichloroethane	8.8	U
* 75-09-2	Methylene Chloride	9.9		71-43-2	Benzene	8.8	U
* 67-64-1	Acetone	17.	JB	10061-01-5	cis-1,3-Dichloropropene	8.8	U
75-15-0	Carbon Disulfide	8.8	U	110-75-8	2-Chloroethyl Vinyl Ether	18.	U
75-35-4	1,1-Dichloroethene	8.8	U	75-25-2	Bromoform	8.8	U
75-34-3	1,1-Dichloroethane	8.8	U	108-10-1	4-Methyl-2-pentanone	18.	U
156-60-5	trans-1,2-Dichloroethene	8.8	U	591-78-6	2-Hexanone	18.	U
67-66-3	Chloroform	8.8	U	127-18-4	Tetrachloroethene	8.8	U
107-06-2	1,2-Dichloroethane	8.8	U	79-34-5	1,1,2,2-Tetrachloroethane	8.8	U
78-93-3	2-Butanone	18.	U	108-88-3	Toluene	8.8	U
71-55-6	1,1,1-Trichloroethane	8.8	U	108-90-7	Chlorobenzene	8.8	U
56-23-5	Carbon Tetrachloride	8.8	U	100-41-4	Ethyl Benzene	8.8	U
108-05-4	Vinyl Acetate	18.	U	100-42-5	Styrene	8.8	U
75-27-4	Bromodichloromethane	8.8	U		Total Xylenes	8.8	U
78-87-5	1,2-Dichloropropane	8.8	U				

DATA REPORTING QUALIFIERS

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

Value If the result is a value greater than or equal to the detection limit then report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10ug and a concentration of 3ug is calculated, then report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: [illegible] Sample Number
[illegible] : UAS #69[illegible] S-SEDIMENT

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration:	low	GPC Cleanup:	No
Date extracted/prepared:	05-13-86	Separatory Funnel Extraction:	Yes
Date analyzed:	05-16-86	Continuous Liquid - Liquid Extraction:	No
Conc/Dil Factor:	59.50		
Percent moisture (decanted): 44%			

CAS Number		ug/kg		CAS Number		ug/kg		
108-95-2	Phenol	600	U	83-32-9	Acenaphthene	600	U	
111-44-4	bis(2-Chloroethyl) ether	600	U	51-28-5	2,4-Dinitrophenol	3000	U	
95-57-8	2-Chlorophenol	600	U	100-02-7	4-Nitrophenol	3000	U	
541-73-1	1,3-Dichlorobenzene	600	U	132-64-9	Dibenzofuran	600	U	
106-46-7	1,4-Dichlorobenzene	600	U	121-14-2	2,4-Dinitrotoluene	600	U	
100-51-6	Benzyl Alcohol	600	U	606-20-2	2,6-Dinitrotoluene	600	U	
95-50-1	1,2-Dichlorobenzene	600	U	84-66-2	Diethylphthalate	600	U	
95-48-7	2-Methylphenol	600	U	7005-72-3	4-Chlorophenyl Phenyl ether	600	U	
39638-32-9	bis(2-Chloroisopropyl) ether	600	U	86-73-7	Fluorene	600	U	
106-44-5	4-Methylphenol	600	U	100-01-6	4-Nitroaniline	3000	U	
621-64-7	N-Nitroso-Dipropylamine	600	U	534-52-1	4,6-Dinitro-2-methylphenol	3000	U	
67-72-1	Hexachloroethane	600	U	86-30-6	N-nitrosodiphenylamine (1)	600	U	
98-95-3	Nitrobenzene	600	U	101-55-3	4-Bromophenyl Phenyl ether	600	U	
78-59-1	Isophorone	600	U	118-74-1	Hexachlorobenzene	600	U	
88-75-5	2-Nitrophenol	600	U	87-86-5	Pentachlorophenol	3000	U	
105-67-9	2,4-Dimethylphenol	600	U	85-01-8	Phenanthrene	600	U	
65-85-0	Benzoic Acid	3000	U	120-12-7	Anthracene	600	U	
111-91-1	bis(2-Chloroethoxy) methane	600	U	84-74-2	Di-n-butylphthalate	600	U	
120-83-2	2,4-Dichlorophenol	600	U	206-44-0	Fluoranthene	77.	J	*
120-82-1	1,2,4-Trichlorobenzene	600	U	129-00-0	Pyrene	71.	J	*
91-20-3	Naphthalene	600	U	85-68-7	Butyl Benzyl Phthalate	600	U	
106-47-8	4-Chloroaniline	600	U	91-94-1	3,3'-Dichlorobenzidine	1200	U	
87-68-3	Hexachlorobutadiene	600	U	56-55-3	Benzo(a)anthracene	600	U	
59-50-7	4-Chloro-3-methylphenol	600	U	117-81-7	bis(2-ethylhexyl)phthalate	600	U	
91-57-6	2-Methylnaphthalene	600	U	218-01-9	Chrysene	600	U	
77-47-4	Hexachlorocyclopentadiene	600	U	117-84-0	Di-n-octyl Phthalate	600	U	
88-06-2	2,4,6-Trichlorophenol	600	U	205-99-2	Benzo(b)fluoranthene	~~[illegible]~~	~~[illegible]~~	77J II
95-95-4	2,4,5-Trichlorophenol	3000	U	207-08-9	Benzo(k)fluoranthene	~~[illegible]~~	~~U~~	77J II
91-58-7	2-Chloronaphthalene	600	U	50-32-8	Benzo(a)pyrene	600	U	
88-74-4	2-Nitroaniline	3000	U	193-39-5	Indeno(1,2,3-cd)pyrene	600	U	
131-11-3	Dimethyl Phthalate	600	U	53-70-3	Dibenz(a,h)anthracene	600	U	
208-96-8	Acenaphthylene	600	U	191-24-2	Benzo(g,h,i)perylene	600	U	
99-09-2	3-Nitroaniline	3000	U					

(1) Cannot be separated from diphenylamine

II indistinguishable isomers

Sample Number
B-SEDIMEN

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: [Low] Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Data Analyzed: 05/22/86
Conc/Dil Factor: 1.76

CAS Number		ug/l or [ug/Kg] (Circle One)	
319-84-6	Alpha - BHC	14.	U
319-85-7	Beta - BHC	14.	U
319-86-8	Delta - BHC	14.	U
58-89-9	Gamma - BHC(Lindane)	14.	U
76-44-8	Heptachlor	14.	U
309-00-2	Aldrin	14.	U
1024-57-3	Heptachlor Epoxide	14.	U
959-98-8	Endosulfan I	14.	U
60-57-1	Dieldrin	28.	U
72-55-9	4-4' - DDE	28.	U
72-20-8	Endrin	28.	U
33213-65-9	Endosulfan II	28.	U
72-54-8	4-4' - DDD	28.	U
1031-07-8	Endosulfan Sulfate	28.	U
50-29-3	4-4' - DDT	28.	U
72-43-5	Methoxychlor	140	U
53494-70-5	Endrin Ketone	28.	U
57-74-9	Chlordane	140	U
8001-35-2	Toxaphene	280	U
12674-11-2	Aroclor - 1016	140	U
11104-28-2	Aroclor - 1221	140	U
11141-16-5	Aroclor - 1232	140	U
53469-21-9	Aroclor - 1242	140	U
12672-29-6	Aroclor - 1248	140	U
11097-69-1	Aroclor - 1254	280	U
11096-82-5	Aroclor - 1260	280	U

V(i) = Volume of extract injected (ul)
V(e) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(e) _____ or W(s) 30.24 V(t) 2000.00 V(i) 1.0

Form 1

Sample Number
B-SEDIMEN

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: [Low] Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Data Analyzed: 05/16/86
Conc/Dil Factor: 1.76

CAS Number		ug/l or [ug/Kg] (Circle One)	
319-84-6	Alpha - BHC	14.	U
319-85-7	Beta - BHC	14.	U
319-86-8	Delta - BHC	14.	U
58-89-9	Gamma - BHC(Lindane)	14.	U
76-44-8	Heptachlor	14.	U
309-00-2	Aldrin	14.	U
1024-57-3	Heptachlor Epoxide	14.	U
959-98-8	Endosulfan I	14.	U
60-57-1	Dieldrin	28.	U
72-55-9	4-4' - DDE	28.	U
72-20-8	Endrin	28.	U
33213-65-9	Endosulfan II	28.	U
72-54-8	4-4' - DDD	28.	U
1031-07-8	Endosulfan Sulfate	28.	U
50-29-3	4-4' - DDT	28.	U
72-43-5	Methoxychlor	140	U
53494-70-5	Endrin Ketone	28.	U
57-74-9	Chlordane	140	U
8001-35-2	Toxaphene	280	U
12674-11-2	Aroclor - 1016	140	U
11104-28-2	Aroclor - 1221	140	U
11141-16-5	Aroclor - 1232	140	U
53469-21-9	Aroclor - 1242	140	U
12672-29-6	Aroclor - 1248	140	U
11097-69-1	Aroclor - 1254	280	U
11096-82-5	Aroclor - 1260	280	U

V(i) = Volume of extract injected (ul)
V(s) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(s) _____ or W(s) 30.24 V(t) 2000.00 V(i) 5.0

3. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found: if so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found.")

Laboratory Name: CompuChem Laboratories

Case No: URS WEST

Sample Number: B-SEDIMENT

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOLATILE COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30					

SAMPLE NUMBER 8-SEDIMENT

COMPUCHEM FILE GJ08499B15

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	625-06-9	2-PENTANOL, 2,4-DIMETHYL- (column contaminant)	SEMI2	345	3500 ~~2200.~~	JB
2	544-76-3	HEXADECANE (hydrocarbon)	SEMI2	1120	710 ~~400.~~	J
3	74764-11-7	IRON, TRICARBONYL(N-(PHENYL-2-PYRIDINYLMETHYLENE)BEN (hydrocarbon)	SEMI2	1192	1500 ~~860.~~	J
4	74764-11-7	IRON, TRICARBONYL(N-(PHENYL-2-PYRIDINYLMETHYLENE)BEN (hydrocarbon)	SEMI2	1289	1300 ~~750.~~	J
5	74685-29-3	9-EICOSENE, (E)- (alkene)	SEMI2	1298	1300 ~~740.~~	J
6	7098-22-8	TETRATETRACONTANE (hydrocarbon)	SEMI2	1430	620 ~~350.~~	J

59.5

~~33.600~~ 40.00

SPECTROSCOPIST _____

DATE 5/20/86

4. Raw Data — In order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatograms(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)
- Calibration plots (area vs. Concentration) for 4,4'-DDT, 4,4'-DDD 4,4'-DDE, or taxaphene (where appropriate)

c Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

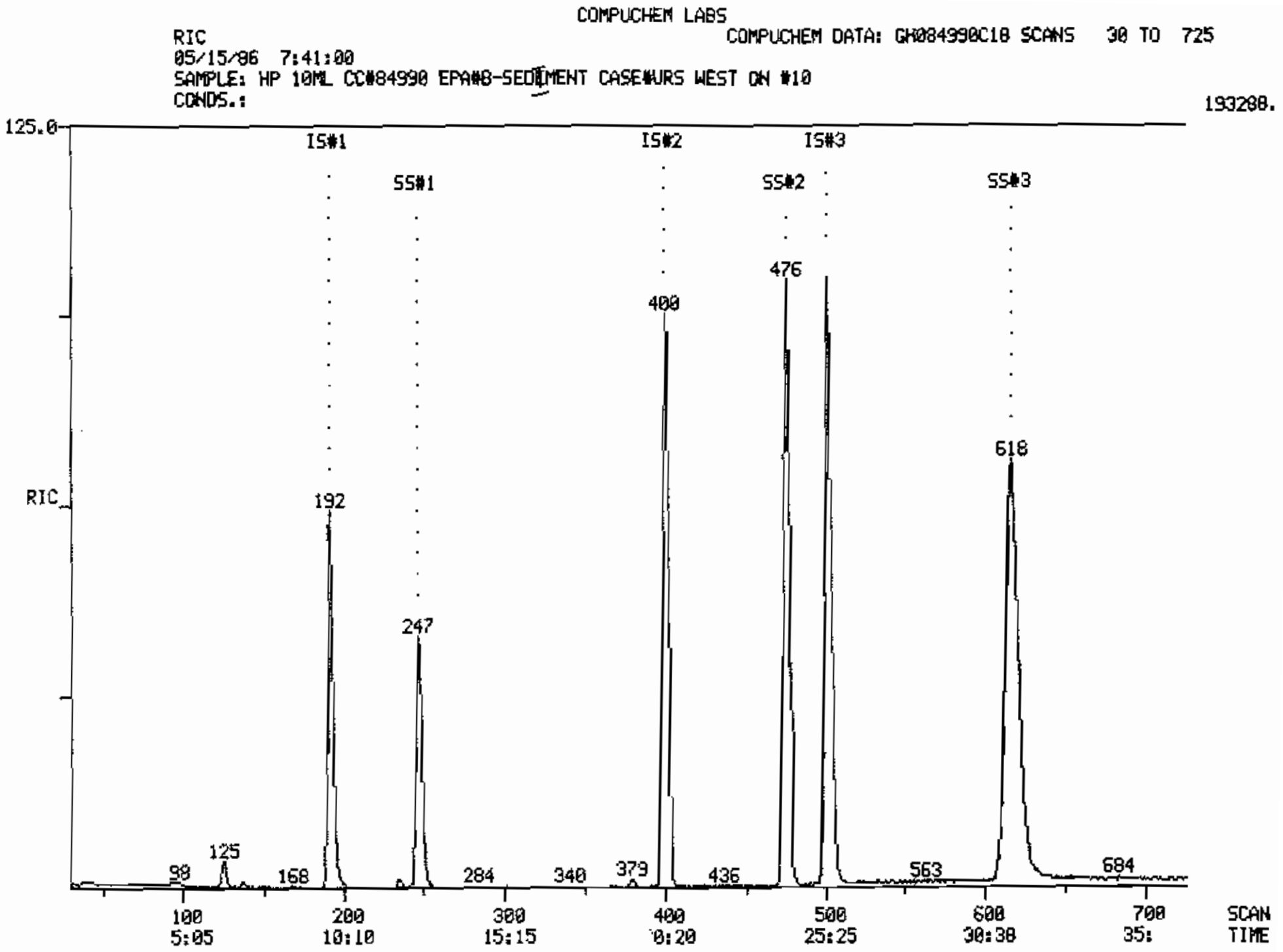
d. GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e Quantitation/Calculation of tentative ID concentration(s)

f Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GH084990C18 SCANS 30 TO 725
05/15/86 7:41:00
SAMPLE: HP 10ML CC#84990 EPA#8-SEDIMENT CASE#URS WEST ON #10
CONDS.:
193288.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
476
400
618
RIC
192
247
125
98
168
284
340
379
436
563
684
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35:
SCAN
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: E23S FILENAME: GH084990C18 DATE: 05/15/86
'IFT STD: G9860515C18 TIME: 7:41

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
#234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1	60823.	68161.	-11.	PASS
#248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E6#1	239249.	277912.	-14.	PASS
#270 D5-CHLOROBENZENE (IS)	231103.	268284.	-14.	PASS

```
QUANTITATION REPORT     FILE: GH084990C18

DATA: GH084990C18.TI
 3/15/86  7:41:00
 AMPLE: HP 10ML CC#84990 EPA#8-SEDIMENT CASE#URS WEST ON #18
CONDS.:
SUBMITTED BY: 18              ANALYST: 891

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

 NO  NAME
  1  *234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1
  2   221 CHLOROMETHANE <75-01-4> E5#2
  3   220 BROMOMETHANE <78-83-9> E5#3
  4   231 VINYL CHLORIDE <75-01-4> E5#4
  5   209 CHLOROETHANE <75-00-3> E5#5
  6   222 METHYLENE CHLORIDE <75-09-2> E5#6
  7   252 ACETONE (2-PROPANONE) <67-64-1> E5#7
  8   254 CARBON DISULFIDE <75-15-0> E5#8
  9   216 1,1-DICHLOROETHYLENE <75-35-4> E5#9
 10   214 1,1-DICHLOROETHANE <75-34-3> E5#10
 11   226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E5#11
 12   211 CHLOROFORM <67-66-3> E5#12
 13   215 1,2-DICHLOROETHANE <107-06-2> E5#13
 14  *248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E6#1
 15   253 2-BUTANONE <78-93-3> E6#2
 16   227 1,1,1-TRICHLOROETHANE <71-55-6> E6#3
 17   206 CARBON TETRACHLORIDE <56-23-5>
  8   257 VINYL ACETATE <108-05-4> E6#5
 19   212 BROMODICHLOROMETHANE <75-27-4> E6#6
 20   217 1,2-DICHLOROPROPANE <78-87-5> E6#7
 21   250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E6#8
 22   229 TRICHLOROETHYLENE <79-01-6> E6#9
 23   208 CHLORODIBROMOMETHANE <124-48-1> E6#10
 24   228 1,1,2-TRICHLOROETHANE <79-00-5> E6#11
 25   203 BENZENE <71-43-2> E6#12
 26   218 CIS-1,3-DICHLOROPROPENE <10061-01-5> E6#13
 27   210 2-CHLOROETHYL VINYL ETHER <110-75-8> E6#14
 28   205 BROMOFORM <75-25-2> E6#15
 29  *270 D5-CHLOROBENZENE (IS)
 30   256 4-METHYL-2-PENTANONE <108-10-1> E7#2
 31   255 2-HEXANONE <591-78-6> E7#3
 32   224 TETRACHLOROETHENE <127-18-4> E7#4
 33   223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E7#5
 34   225 TOLUENE <108-88-3> E7#6
 35   207 CHLOROBENZENE <108-90-7> E7#7
 36   219 ETHYLBENZENE <100-41-4> E7#8
 37   251 STYRENE <100-42-5> E7#9
 38   240 M-XYLENE E7#10
 39   271 O,P-XYLENE E7#11
 40  #258 D4-1,2-DICHLOROETHANE E8#2
 41  #247 BROMOFLUOROBENZENE <460-00-4> E8#3
 42  #233 D8-TOLUENE E8#4

 ID  M/E  SCAN   TIME  REF   RRT  METH     AREA(HGHT)  AMOUNT          %TOT
  1  128   192   9:46   1  1.000  A BV       60823.    50.000 UG/KG  16.11
  2   50  NOT FOUND
```

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	125	6:21	1	0.651	A BB	6294.	5.623	UG/KG	1.81
7	43	138	7:01	1	0.719	A BB	4299.	9.796	UG/KG	3.16
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	235	11:57	1	1.224	A BB	3931.	1.418	UG/KG	0.46
13	62	NOT FOUND								
14	114	400	20:20	14	1.000	A BV	239249.	50.000	UG/KG	16.11
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	NOT FOUND								
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	502	25:31	29	1.000	A BB	231103.	50.000	UG/KG	16.11
30	43	NOT FOUND								
31	43	NOT FOUND								
32	164	NOT FOUND								
33	83	NOT FOUND								
34	92	NOT FOUND								
35	112	NOT FOUND								
36	106	NOT FOUND								
37	104	NOT FOUND								
38	106	NOT FOUND								
39	106	NOT FOUND								
40	65	247	12:33	1	1.286	A BV	91276.	48.856	UG/KG	15.74
41	95	618	31:25	29	1.231	A BB	181769.	47.602	UG/KG	15.34
42	98	476	24:12	1	2.479	A BB	218530.	47.120	UG/KG	15.18

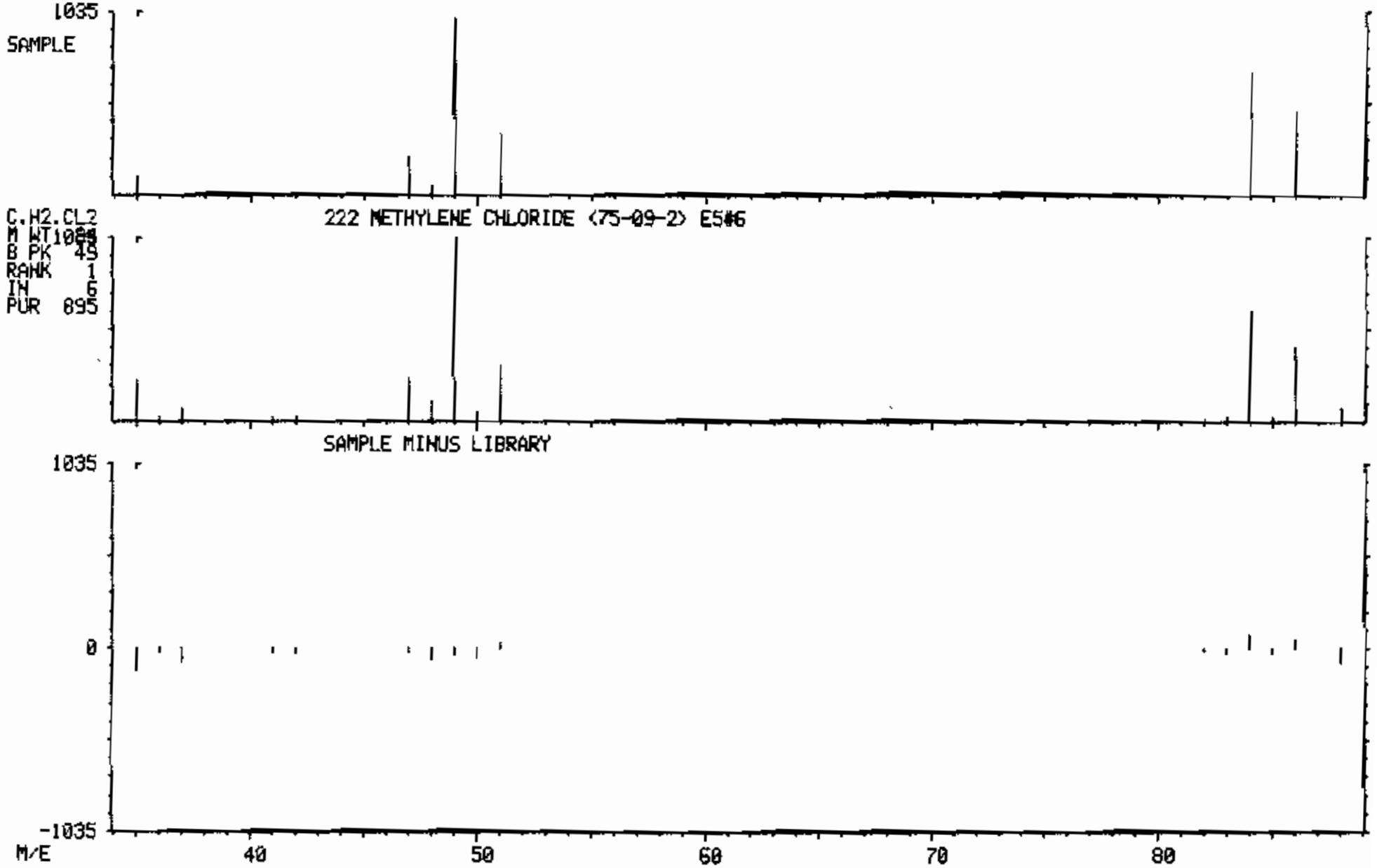
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:43	1.01	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:41		10.000			50.00		0.925	
3	2:36		10.000			50.00		1.296	
4	3:15		10.000			50.00		0.885	
5	4:10		10.000			50.00		0.489	
6	6:15	1.02	5.000	0.13	5.62	50.00	0.103	0.920	0.11
7	6:55	1.01	10.000	0.07	9.80	50.00	0.071	0.361	0.20
8	7:56		5.000			50.00		1.773	
9	9:12		5.000			50.00		0.973	
10	10:34		5.000			50.00		1.597	
11	11:17		5.000			50.00		1.088	
12	11:54	1.00	5.000	0.24	1.42	50.00	0.065	2.278	0.03
13	12:39		5.000			50.00		1.678	
14	20:20	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:33		10.000			50.00		0.029	
6	13:59		5.000			50.00		0.504	
17	14:23		5.000			50.00		0.671	
18	14:32		10.000			50.00		0.289	
19	14:57		5.000			50.00		0.577	
20	16:19		5.000			50.00		0.282	
21	16:37		5.000			50.00		0.441	
22	17:11		5.000			50.00		0.477	
23	17:47		5.000			50.00		0.684	
24	17:54		5.000			50.00		0.331	
25	17:41		5.000			50.00		0.696	
26	17:57		5.000			50.00		0.331	
27	19:01		10.000			50.00		0.211	
28	20:35		5.000			50.00		0.551	
29	25:31	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:06		10.000			50.00		0.444	
31	22:40		10.000			50.00		0.328	
32	23:02		5.000			50.00		0.492	
33	22:56		5.000			50.00		0.623	
34	24:21		5.000			50.00		0.563	
35	25:37		5.000			50.00		0.904	
36	28:07		5.000			50.00		0.447	
37	33:21		5.000			50.00		0.753	
38	33:48		5.000			50.00		0.485	
39	35:11		5.000			100.00		0.450	
40	12:33	1.00	10.000	0.13	48.86	50.00	1.501	1.536	0.98
41	31:25	1.00	10.000	0.12	47.60	50.00	0.787	0.826	0.95
2	24:12	1.00	10.000	0.25	47.12	50.00	3.593	3.812	0.94

COMPUCHEM LABS

LIBRARY SEARCH
05/15/86 7:41:00 + 5:21
SAMPLE: HP 10ML CC#84990 EPA#B-SEDEMENT CASE#URS WEST ON #18
ENHANCED (S 15B 2N 0T)

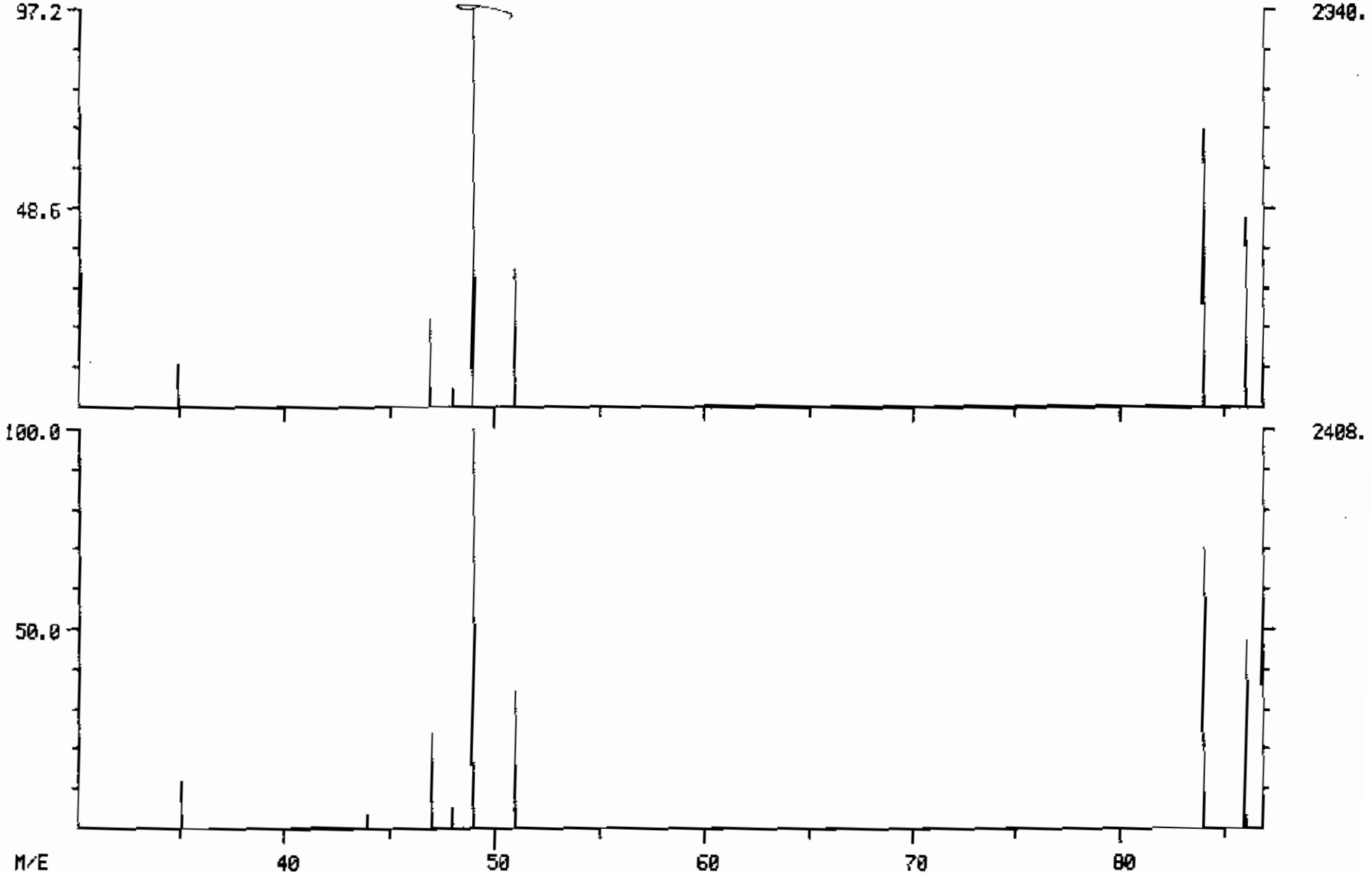
DATA: GH884990C18 # 125
BASE M/E: 49
RIC: 6743.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/15/86 7:41:00 + 6:21
SAMPLE: HP 10ML CC#84990 EPA#8-SEDEMENT CASE#URS WEST ON #18
ENHANCED (S 15B 2N) 222 METHYLENE CHLORIDE (75-09-2) E5#6

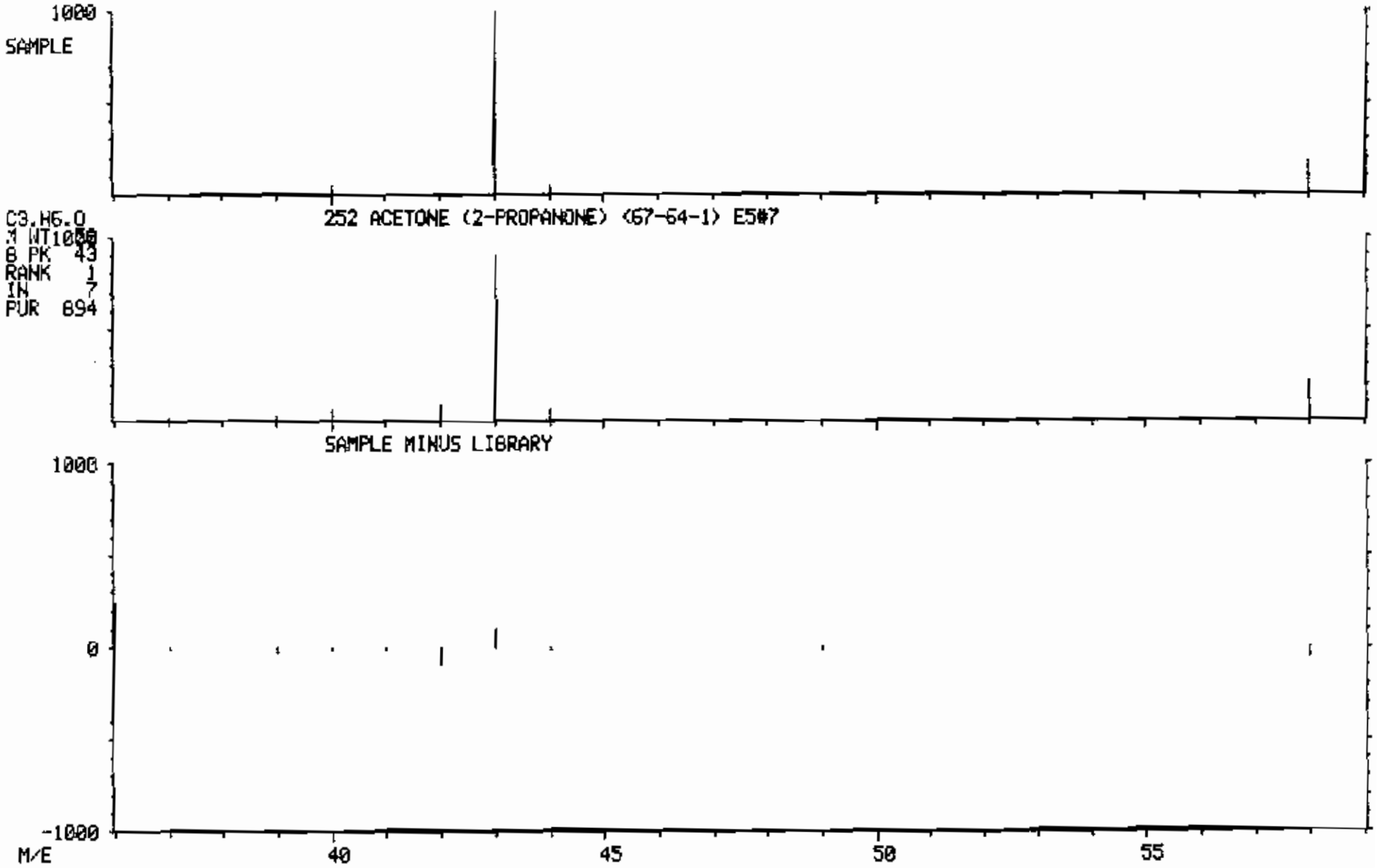
DATA: GH084990C10 #125 BASE M/E: 49/ 49
RIC: 6743./ 7103.



COMPUCHEM LABS

LIBRARY SEARCH
05/15/86 7:41:00 + 7:01
SAMPLE: NP 10NL CC#04990 EPA#B-SEDEMENT CASE#URS WEST ON #18
ENHANCED (S 15B 2N 0T)

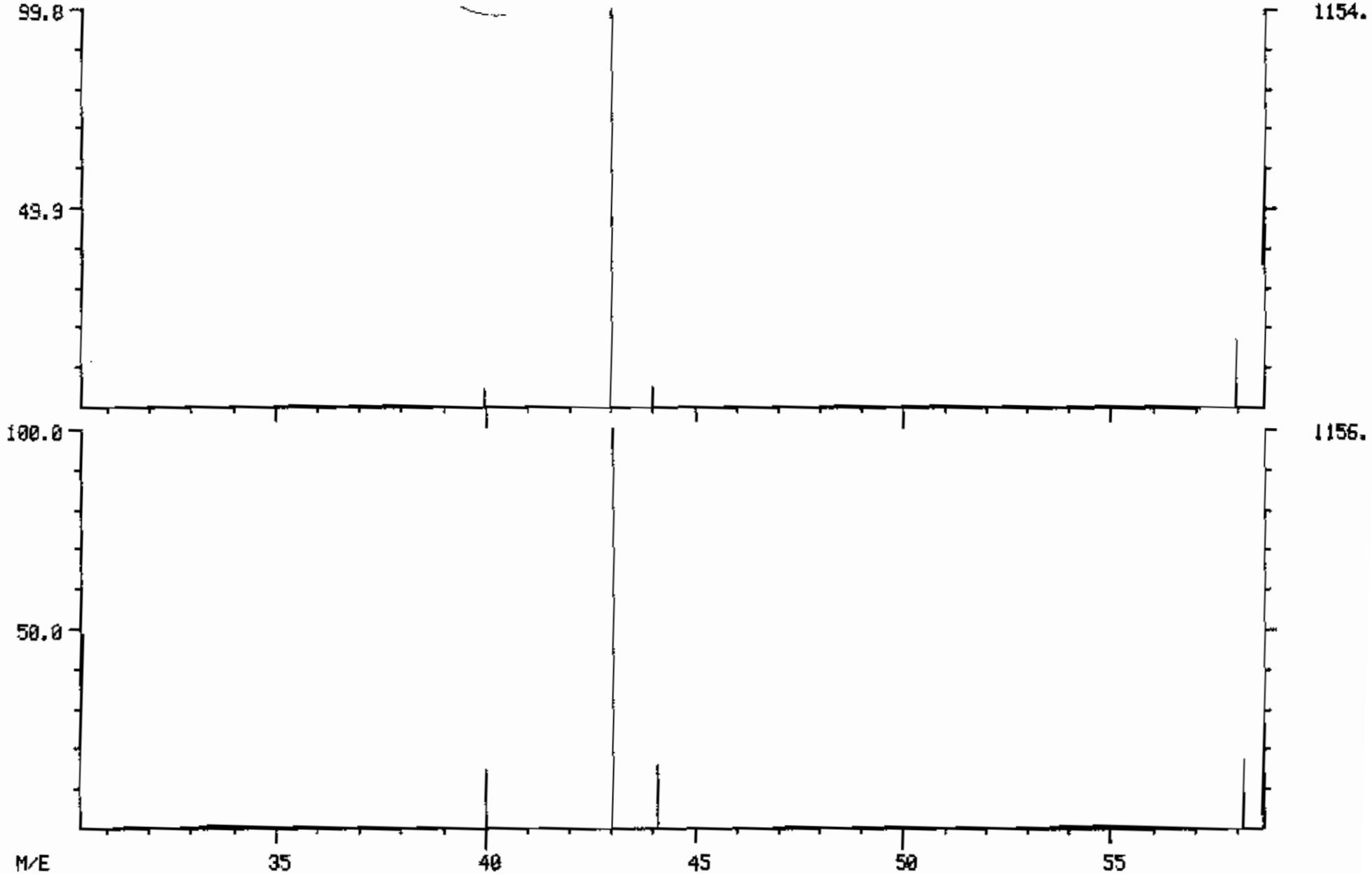
DATA: GH084990C10 # 130
BASE M/E: 43
RIC: 1455.

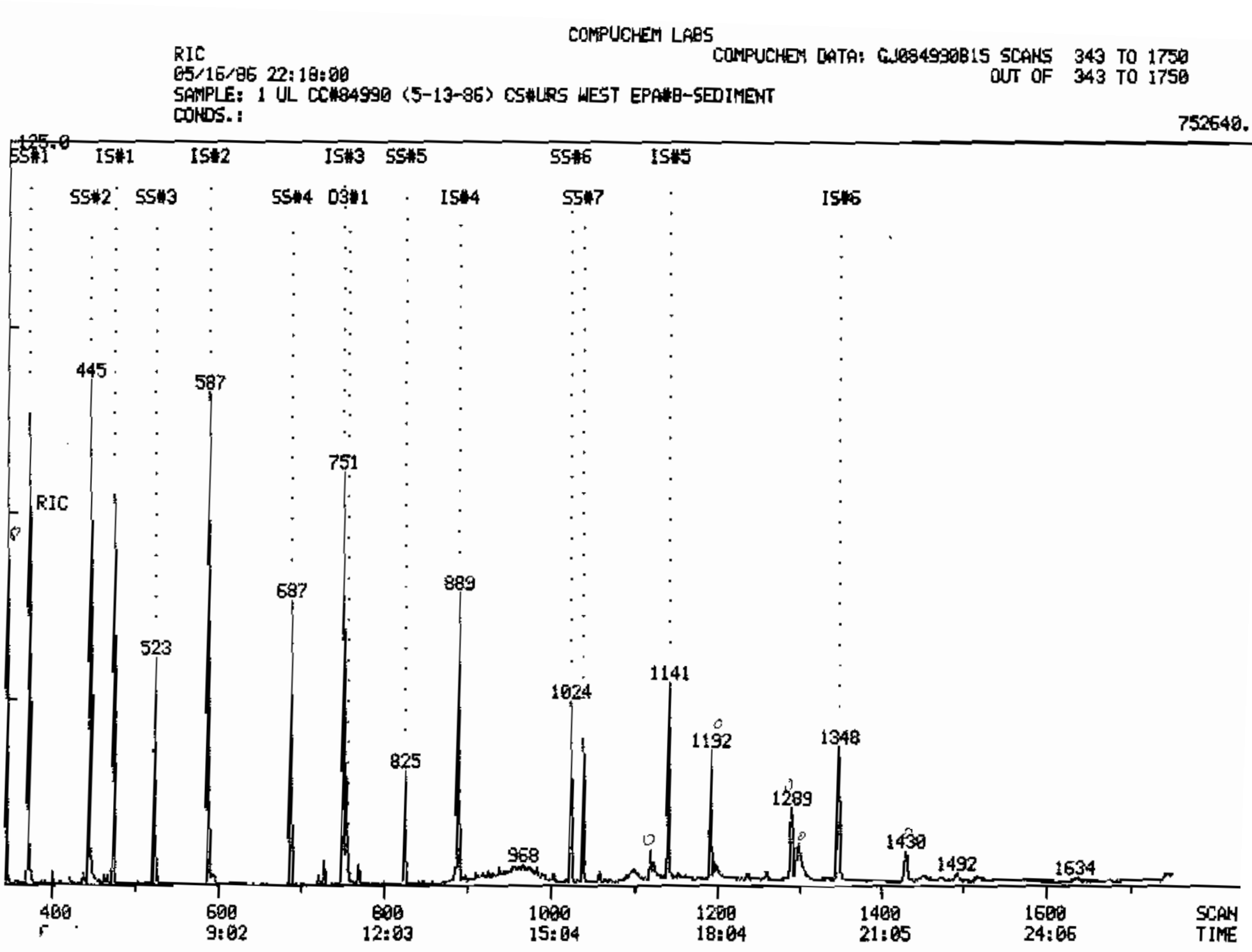


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/15/86 7:41:00 + 7:01
SAMPLE: MP 10ML CC#04990 EPA#8-SEDEMENT CASE#URS WEST ON #18
ENHANCED (S 150 2N) 252 ACETONE (2-PROPANONE) (67-64-1) E5#7

DATA: GH004990C18 #138 BASE M/E: 43/ 43
RIC: 1455./ 1709.




COMPUCHEM LABS
RIC
COMPUCHEM DATA: GJ084930B1S SCANS 343 TO 1750
05/16/86 22:18:00
OUT OF 343 TO 1750
SAMPLE: 1 UL CC#84990 (5-13-86) CS#URS WEST EPA#8-SEDIMENT
CONDS.:
752640.
125.0
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
D3#1
IS#4
SS#7
IS#6
445
587
751
RIC
687
889
523
1141
1024
1192
1348
825
1289
968
1430
1492
1634
400
600
800
1000
1200
1400
1600
9:02
12:03
15:04
18:04
21:05
24:06
SCAN
TIME

INTERNAL STANDARD AREA MONITOR

'ETHOD: SEM12 FILENAME: GJ084990B15 DATE: 05/16/86
HIFT STD: HG860516B15 TIME: 22:18

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
#494 D4-1,4-DICHLOROBENZENE (IS#1)	76328.	56576.	35.	PASS
#460 D8-NAPHTHALENE (IS#2)	307968.	222968.	38.	PASS
#495 D10-ACENAPHTHENE (IS#3)	134404.	92712.	45.	PASS
#467 D10-PHENANTHRENE (IS#4)	174596.	117188.	49.	PASS
#459 D12-CHRYSENE (IS#5)	141408.	100736.	40.	PASS
#497 D12-PERYLENE (IS#6)	159472.	106208.	50.	PASS

QUANTITATION REPORT FILE: GJ084990B15

DATA: GJ084990B15.TI
 5/16/86 22:18:00
SAMPLE: 1 UL CC#84990 (5-13-86) CS#URS WEST EPA#B-SEDIMENT
CONDS.:
SUBMITTED BY: 15 ANALYST: 803

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

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	610 PHENOL (Q1#3) <108-95-2>
3	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
4	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
5	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
6	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
7	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
8	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
9	620 2-METHYLPHENOL (Q1#11) <95-48-7>
10	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
11	622 4-METHYLPHENOL (Q1#13) <106-44-5>
12	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
13	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
14	440 NITROBENZENE (Q1#16) <98-95-3>
15	*460 D8-NAPHTHALENE (IS#2)
16	438 ISOPHORONE (Q2#2) <78-59-1>
17	606 2-NITROPHENOL (Q2#3) <88-75-5>
18	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
19	625 BENZOIC ACID (Q2#5) <65-85-0>
20	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
21	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
22	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
23	439 NAPHTHALENE (Q2#9) <91-20-3>
24	475 4-CHLOROANILINE (Q2#10) <106-47-8>
25	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
26	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
27	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
28	*495 D10-ACENAPHTHENE (IS#3)
29	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
30	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
31	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
32	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
33	478 2-NITROANILINE (Q3#6) <88-74-4>
34	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
35	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
36	479 3-NITROANILINE (Q3#9) <99-09-2>
37	401 ACENAPHTHENE (Q3#10) <83-32-9>
38	@605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
39	607 4-NITROPHENOL (Q3#12) <100-02-7>
40	476 DIBENZOFURAN (Q3#13) <132-64-9>
41	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
42	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
43	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
44	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>
45	432 FLUORENE (Q3#18) <86-73-7>
46	480 4-NITROANILINE (Q3#19) <100-01-6>

NO	NAME
47	*467 D10-PHENANTHRENE (IS#4)
48	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
49	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
50	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
51	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
52	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
53	444 PHENANTHRENE (G4#7) <85-01-8>
54	403 ANTHRACENE (G4#8) <120-12-7>
55	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
56	431 FLUORANTHENE (G4#10) <206-44-0>
57	*459 D12-CHRYSENE (IS#5)
58	445 PYRENE (G5#3) <129-00-0>
59	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
60	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
61	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
62	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
63	418 CHRYSENE (G5#8) <218-01-9>
64	*497 D12-PERYLENE (IS#6)
65	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
66	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
67	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
68	406 BENZO(A)PYRENE (G6#5) <50-32-8>
69	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
70	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
71	405 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
72	#619 2-FLUOROPHENOL (SS#1)
73	#612 D5-PHENOL (SS#2)
74	#447 D5-NITROBENZENE (SS#3)
75	#448 2-FLUOROBIPHENYL (SS#4)
76	#628 2,4,6-TRIBROMOPHENOL (SS#5)
77	#496 D14-TERPHENYL (SS#6)
78	#471 D10-PYRENE
79	456 1,2,3,4-TETRACHLOROBENZENE

NO	H/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	474	7:05	1	1.000	A BB	76328.	40.000 NG	7.54
2	94	NOT FOUND							
3	93	NOT FOUND							
4	128	NOT FOUND							
5	146	NOT FOUND							
6	146	NOT FOUND							
7	108	NOT FOUND							
8	146	NOT FOUND							
9	108	NOT FOUND							
10	45	NOT FOUND							
11	108	NOT FOUND							
12	70	NOT FOUND							
13	117	NOT FOUND							
14	77	NOT FOUND							
15	136	587	8:50	15	1.000	A BV	307968.	40.000 NG	7.54
16	82	NOT FOUND							
17	139	NOT FOUND							
18	122	NOT FOUND							
19	122	NOT FOUND							
20	93	NOT FOUND							
21	162	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
22	180	NOT FOUND								
23	126	NOT FOUND								
24	127	NOT FOUND								
25	225	NOT FOUND								
26	107	NOT FOUND								
27	142	NOT FOUND								
28	164	751	11:19	28	1.000	A BB	134404.	40.000	NG	7.54
29	237	NOT FOUND								
30	196	NOT FOUND								
31	196	NOT FOUND								
32	162	NOT FOUND								
33	65	NOT FOUND								
34	163	NOT FOUND								
35	152	NOT FOUND								
36	138	NOT FOUND								
37	153	NOT FOUND								
38	184	NOT FOUND								
39	139	NOT FOUND								
40	168	NOT FOUND								
41	89	NOT FOUND								
42	165	NOT FOUND								
43	149	NOT FOUND								
44	204	NOT FOUND								
45	166	NOT FOUND								
46	136	NOT FOUND								
47	188	889	13:23	47	1.000	A VV	174596.	40.000	NG	7.54
48	198	NOT FOUND								
49	169	NOT FOUND								
50	248	NOT FOUND								
51	284	NOT FOUND								
52	266	NOT FOUND								
53	178	NOT FOUND								
54	178	NOT FOUND								
55	149	NOT FOUND								
56	202	1004	15:07	47	1.129	A BB	7492.	1.314	NG	0.25
57	240	1140	17:10	57	1.000	A VV	141408.	40.000	NG	7.54
58	202	1025	15:26	57	0.899	A BB	6500.	1.189	NG	0.22
59	149	NOT FOUND								
60	252	NOT FOUND								
61	228	NOT FOUND								
62	149	NOT FOUND								
63	228	NOT FOUND								
64	264	1348	20:18	64	1.000	A BV	159472.	40.000	NG	7.54
65	149	NOT FOUND								
66	252	1281	19:17	64	0.950	A*BB	5820.	~~1.074~~	~~NG~~ 1.302	0.20
67	252	NOT FOUND 1281					5820	~~1.074~~	1.302	0.20
68	252	NOT FOUND								
69	276	NOT FOUND								
70	278	NOT FOUND								
71	276	NOT FOUND								
72	112	372	5:36	1	0.785	A BV	213920.	66.672	NG	12.57
73	99	445	6:42	1	0.939	A BV	286692.	65.493	NG	12.35
74	82	523	7:53	15	0.891	A BV	117088.	31.078	NG	5.86
75	172	687	10:21	28	0.915	A BV	136412.	30.670	NG	5.78
76	141	825	12:25	28	1.099	A VB	10460.	37.238	NG	7.02
77	244	1038	15:38	57	0.911	A VV	95576.	28.259	NG	5.33

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
78	212	1024	15:25	57	0.898	A VV	120652.	27.459	NG	5.18
79	216	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:08	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	6:43		10.000			50.00		2.722	
3	6:49		10.000			50.00		2.193	
4	6:55		10.000			50.00		1.568	
5	7:06		10.000			50.00		1.671	
6	7:10		10.000			50.00		1.669	
7	7:19		10.000			50.00		0.880	
8	7:25		10.000			50.00		1.553	
9	7:29		10.000			50.00		1.510	
10	7:33		10.000			50.00		2.852	
11	7:40		10.000			50.00		1.563	
12	7:43		10.000			50.00		1.536	
13	7:49		10.000			50.00		0.787	
14	7:54		10.000			50.00		2.151	
15	8:50	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
16	8:13		10.000			50.00		0.998	
17	8:20		10.000			50.00		0.201	
18	8:22		10.000			50.00		0.356	
19	8:30		50.000			50.00		0.178	
20	8:31		10.000			50.00		0.497	
21	8:39		10.000			50.00		0.233	
22	8:47		10.000			50.00		0.284	
23	8:52		10.000			50.00		1.046	
24	8:57		10.000			50.00		0.427	
25	9:07		10.000			50.00		0.156	
26	9:36		10.000			50.00		0.476	
27	9:49		10.000			50.00		0.618	
28	11:19	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
29	10:08		10.000			50.00		0.332	
30	10:17		10.000			100.00		0.334	
31	10:17		50.000			100.00		0.334	
32	10:30		10.000			50.00		1.280	
33	10:40		50.000			50.00		0.475	
34	10:57		10.000			50.00		1.433	
35	11:06		10.000			50.00		2.055	
36	11:14		50.000			50.00		0.353	
37	11:21		10.000			50.00		1.320	
38	11:23		50.000			50.00		0.110	
39	11:27		50.000			50.00		0.238	
40	11:35		10.000			50.00		1.659	
41	11:36		10.000			50.00		0.472	
42	11:02		10.000			50.00		0.289	
43	11:57		10.000			50.00		1.476	
44	12:03		10.000			50.00		0.551	
45	12:04		10.000			50.00		1.285	
46	12:06		50.000			50.00		0.319	
47	13:23	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
48	12:10		50.000			50.00		0.117	
49	12:13		10.000			50.00		0.693	
50	12:44		10.000			50.00		0.261	
51	12:57		10.000			50.00		0.400	
52	13:12		50.000			50.00		0.177	

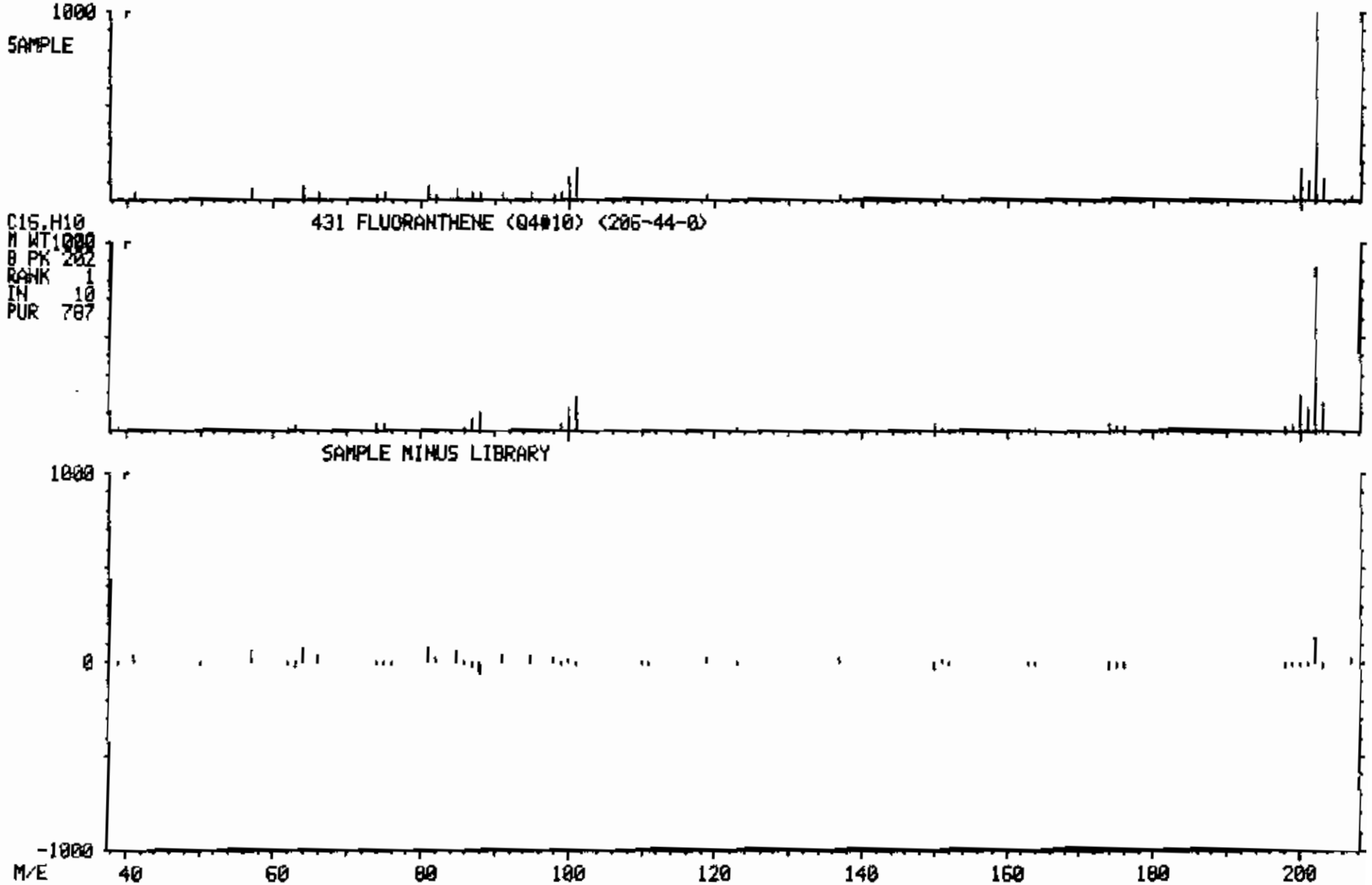
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
53	13:25		10.000			50.00		1.401	
54	13:29		10.000			50.00		1.106	
55	14:13		10.000			50.00		1.834	
56	15:06	1.00	10.000	0.11	1.31	50.00	0.034	1.306	0.03
57	17:09	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
58	15:25	1.00	10.000	0.09	1.19	50.00	0.037	1.546	0.02
59	16:19		10.000			50.00		0.788	
60	17:04		20.000			50.00		0.449	
61	17:07		10.000			50.00		1.356	
62	17:10		10.000			50.00		1.245	
63	17:12		10.000			50.00		1.238	
64	20:15	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
65	18:16		10.000			50.00		1.938	
66	19:16	1.00	10.000	0.10	1.07	50.00	0.029	1.359	0.02
67	19:20		10.000			50.00		0.884	
68	20:07		10.000			50.00		1.177	
69	23:59		10.000			50.00		1.401	
70	24:03		10.000			50.00		1.121	
71	25:06		10.000			50.00		1.151	
72	5:37	1.00	0.742	1.06	66.67	50.00	2.242	1.681	1.33
73	6:42	1.00	0.948	0.99	65.49	50.00	3.005	2.294	1.31
74	7:53	1.00	0.875	1.02	31.08	50.00	0.304	0.489	0.62
75	10:21	1.00	0.906	1.01	30.67	50.00	0.812	1.324	0.61
76	12:25	1.00	1.118	0.98	37.24	50.00	0.062	0.084	0.74
77	15:37	1.00	0.907	1.00	28.26	50.00	0.541	0.957	0.57
78	15:24	1.00	10.000	0.09	27.46	50.00	0.683	1.243	0.55
79	10:31		1.000			50.00		0.224	

COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:18:00 + 15:07
SAMPLE: 1 UL CC#04990 (5-13-86) CS#URS WEST EPA#B-SEDIMENT

DATA: GJ004990B15 #1004
ENHANCED (10B 2N 0T)

BASE M/E: 202
RIC: 8703.

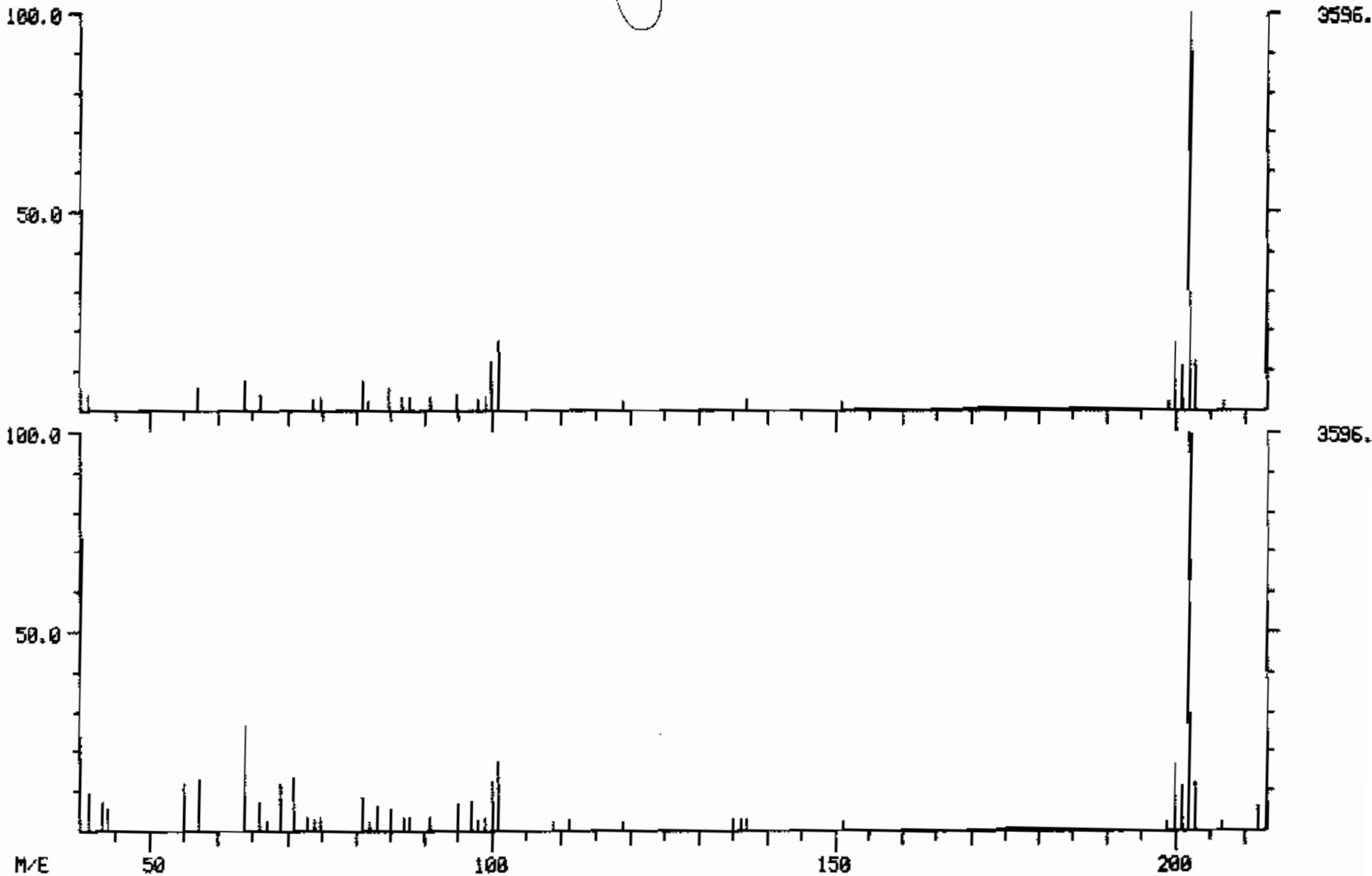


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/86 22:18:00 + 15:07
SAMPLE: 1 UL CC#04990 (5-13-85) CSWURS-WEST EPA#B-SEDIMENT

DATA: GJ04990815 #1004 BASE M/E: 202/ 202
RIC: 8783./ 13279.

SECOND SPECTRUM DATA: GJ04990815 #1004 431 FLUORANTHENE (Q4#10) (206-44-0)

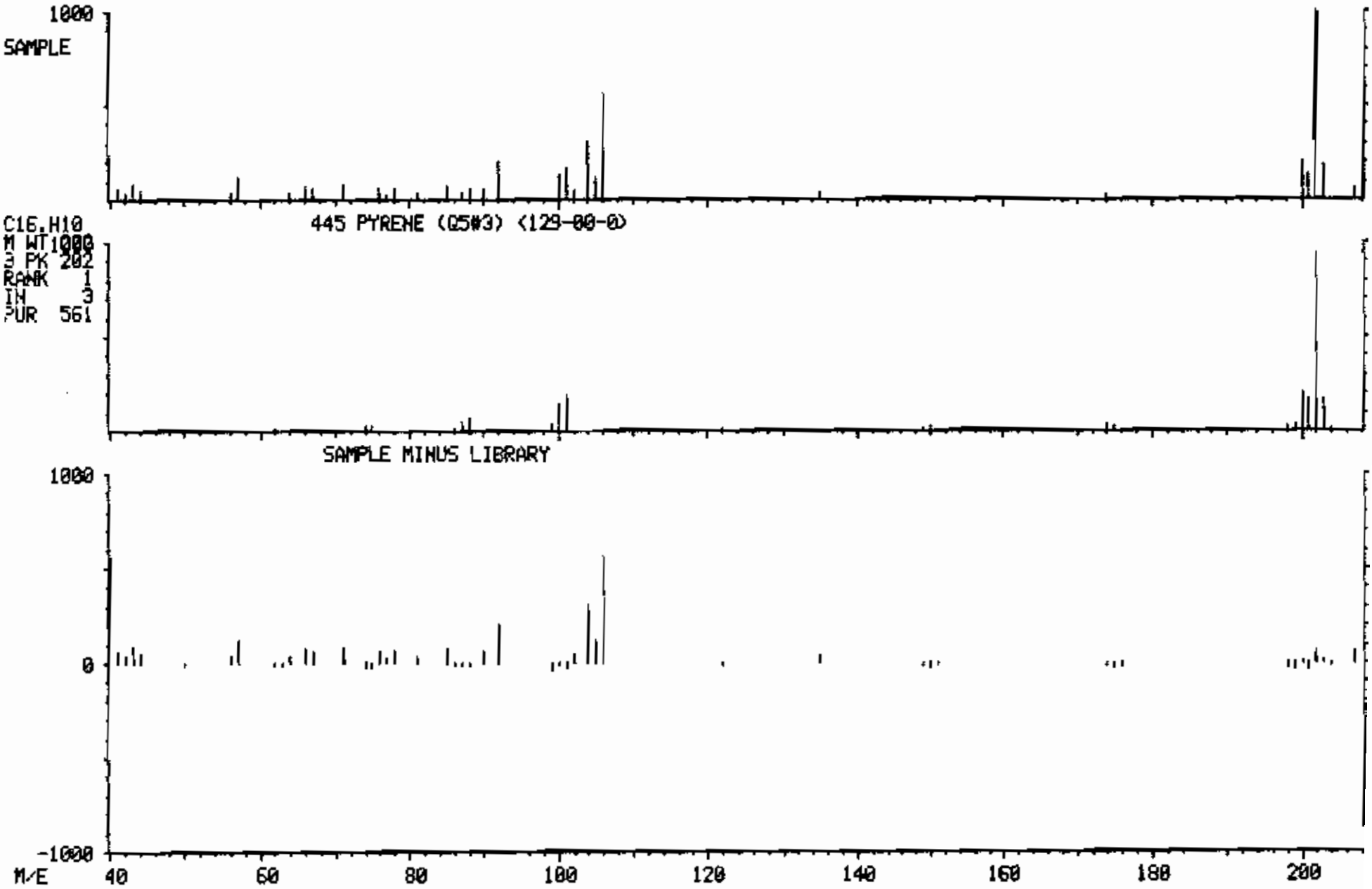


COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:18:00 + 15:26
SAMPLE: | UL CC#84990 (5-13-86) CS#URS WEST EPA#B-SEDIMENT

DATA: GJ084990815 #1025
ENHANCED (100 2N 0T)

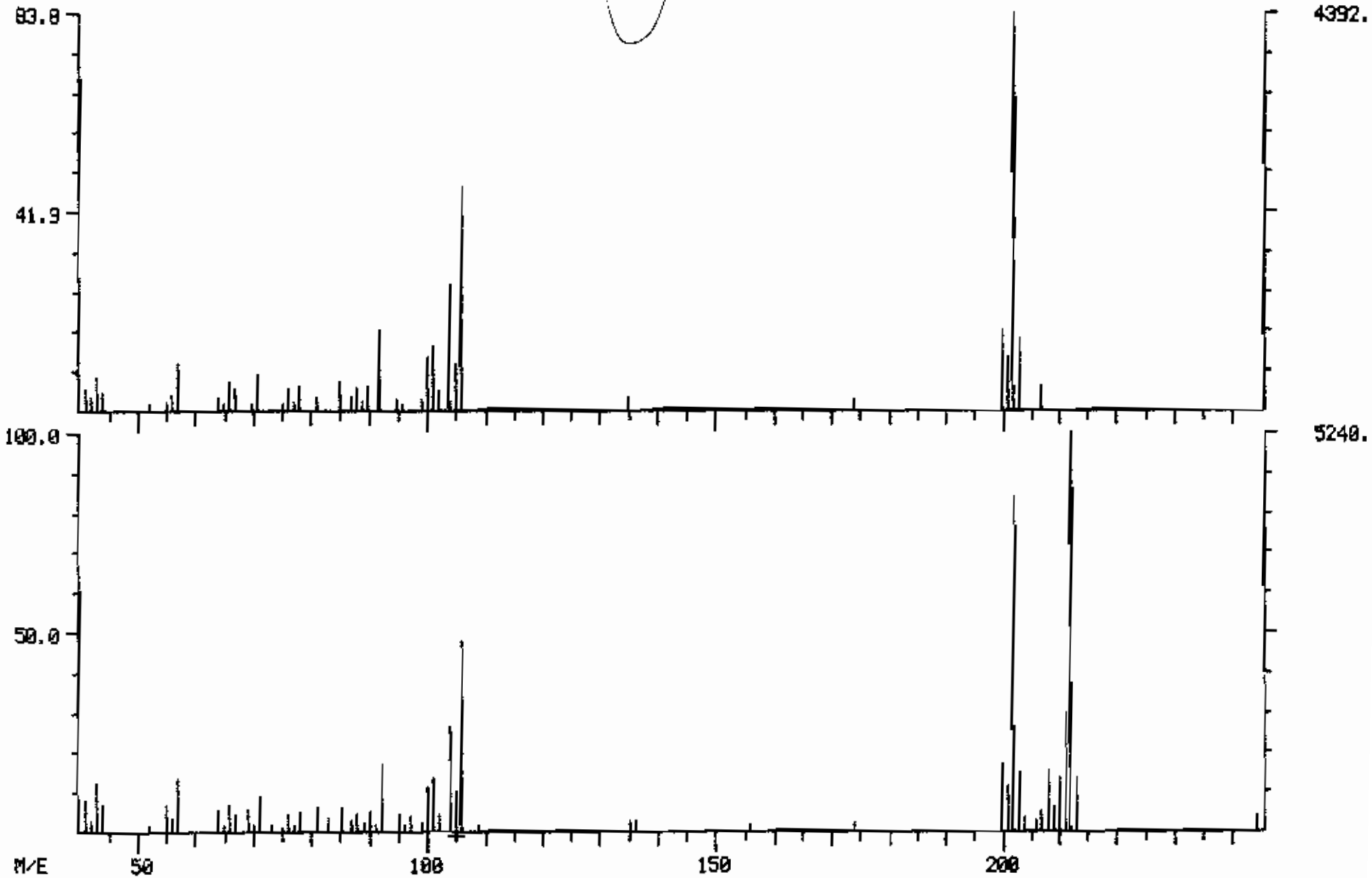
BASE M/E: 202
RIC: 18367.



COMPUCHEM LABS

DUAL MASS SPECTRUM — DATA: GJ084998B15 #1025 — BASE M/E: 202/ 212
05/16/86 22:18:00 + 15:26 — RIC: 19263./ 31903.
SAMPLE: 1 UL CC#84990 (5-13-86) CS#URS WEST EPA#B-SEDIMENT

SECOND SPECTRUM — DATA: GJ084998B15 #1025 445 PYRENE (Q5#3) (129-00-0)

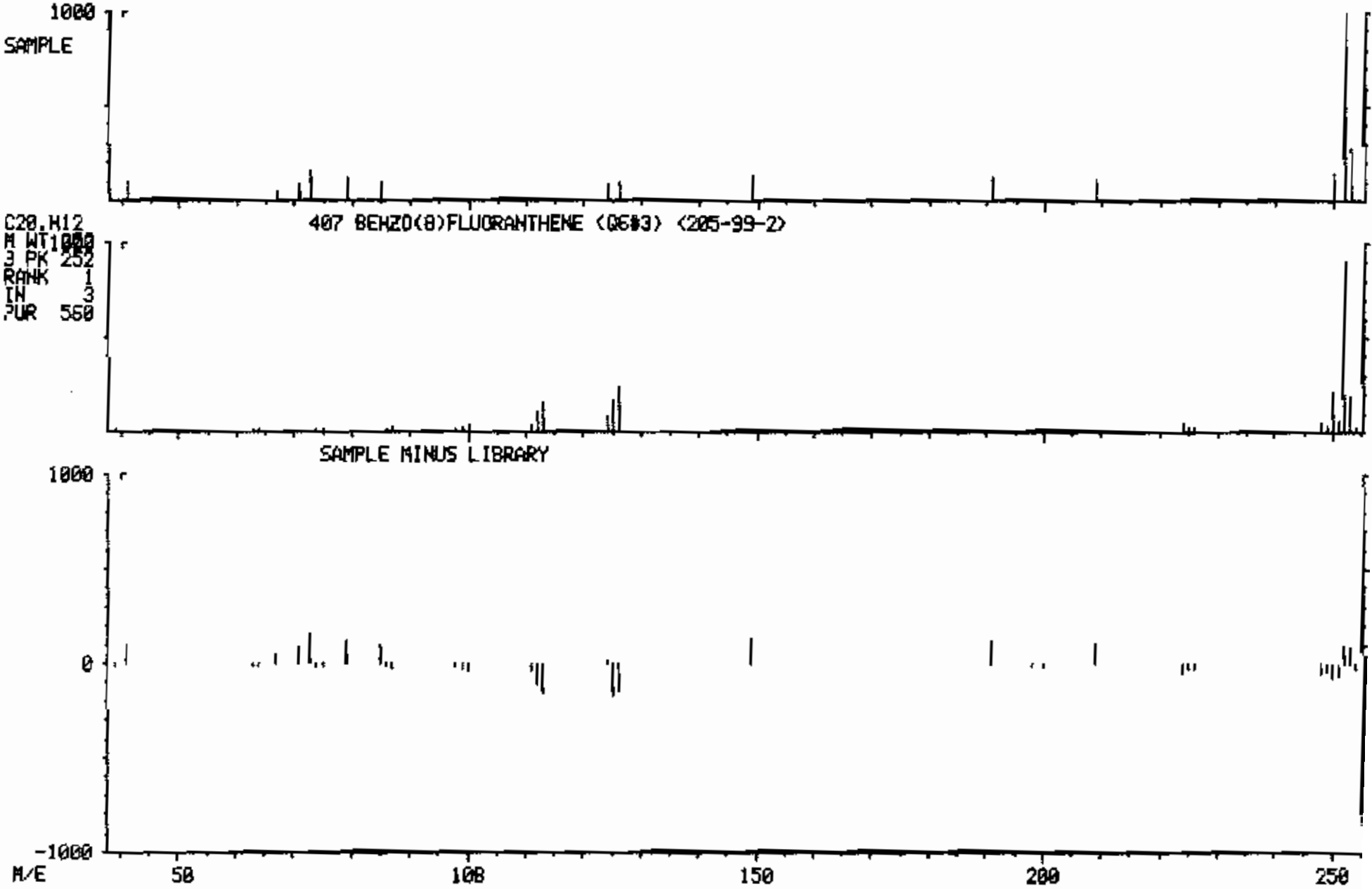


COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:18:00 + 19:17
SAMPLE: 1 UL CC#84990 (5-13-86) CS#URS WEST EPA#B-SEDIMENT

DATA: GJ084990B15 #1281
ENHANCED (10B 2H 0T)

BASE M/E: 252
RIC: 2207.

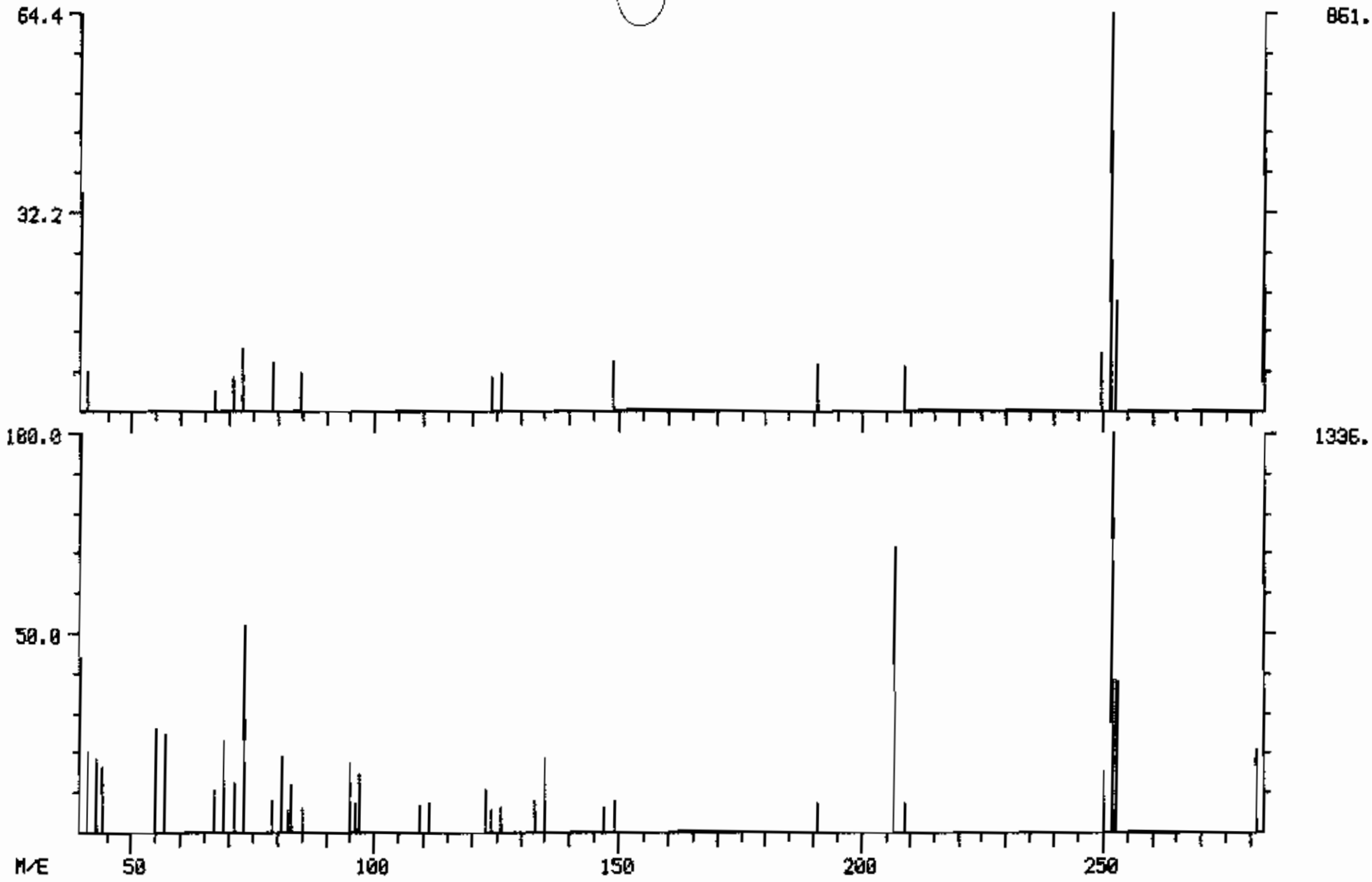


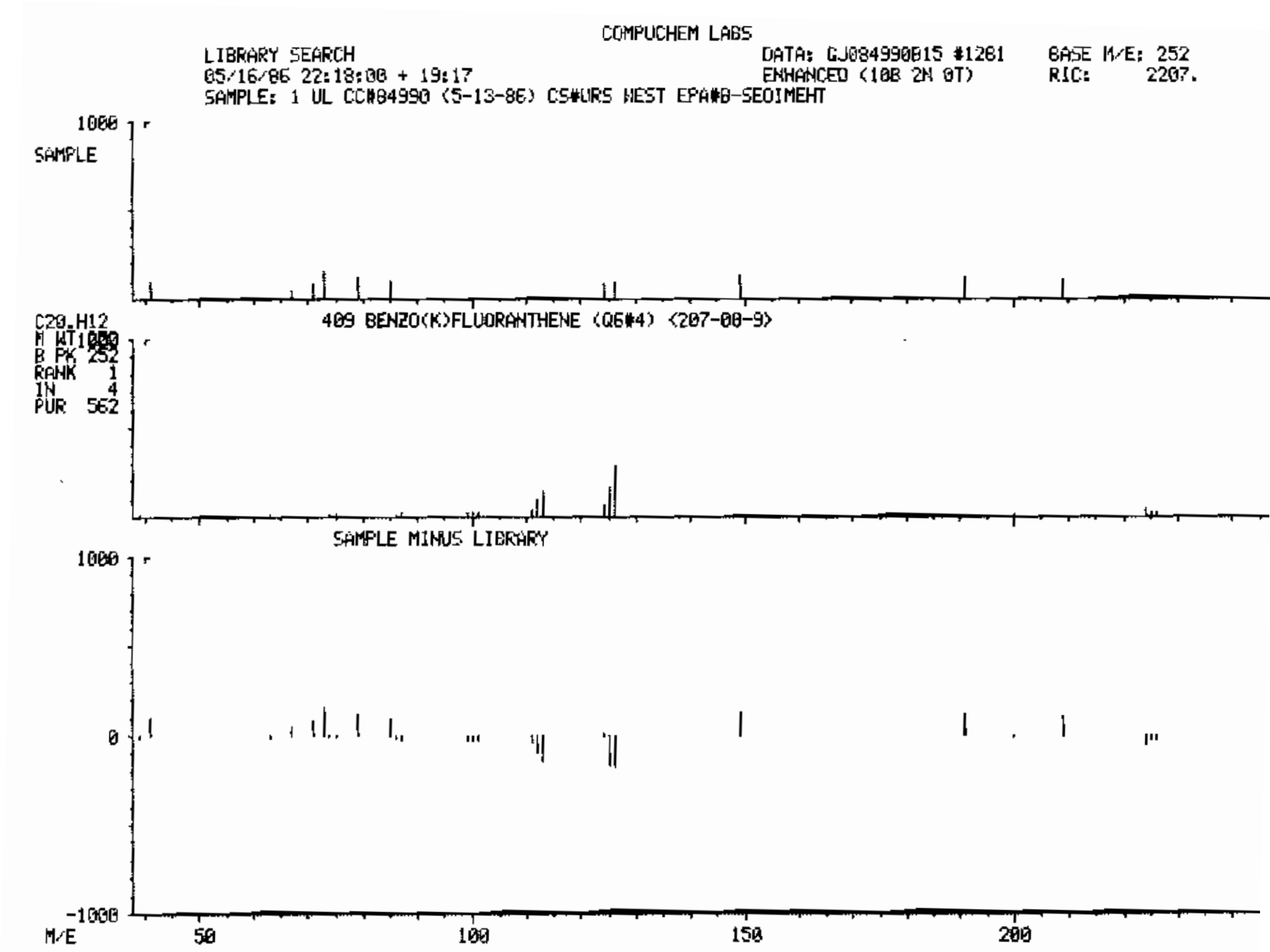
COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/86 22:18:00 + 19:17
SAMPLE: 1 UL CC#84990 (5-13-86) CS#URS WEST EPA#B-SEDIMENT

DATA: GJ004990815 #1281 BASE M/E: 252/ 252
RIC: 2207./ 8447.

SECOND SPECTRUM DATA: GJ034990815 #1281 407 BENZO(B)FLUORANTHENE (06#3) <205-99-2>




COMPUCHEM LABS
LIBRARY SEARCH
05/16/86 22:18:00 + 19:17
SAMPLE: 1 UL CC#84990 (5-13-86) CS#URS WEST EPA#8-SEDIMENT
DATA: GJ084990815 #1261
ENHANCED (10B 2N 0T)
BASE M/E: 252
RIC: 2207.
1000
SAMPLE
409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
C20.H12
M WT 252
B PK 252
RANK 1
IN 4
PUR 562
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
50
100
150
200

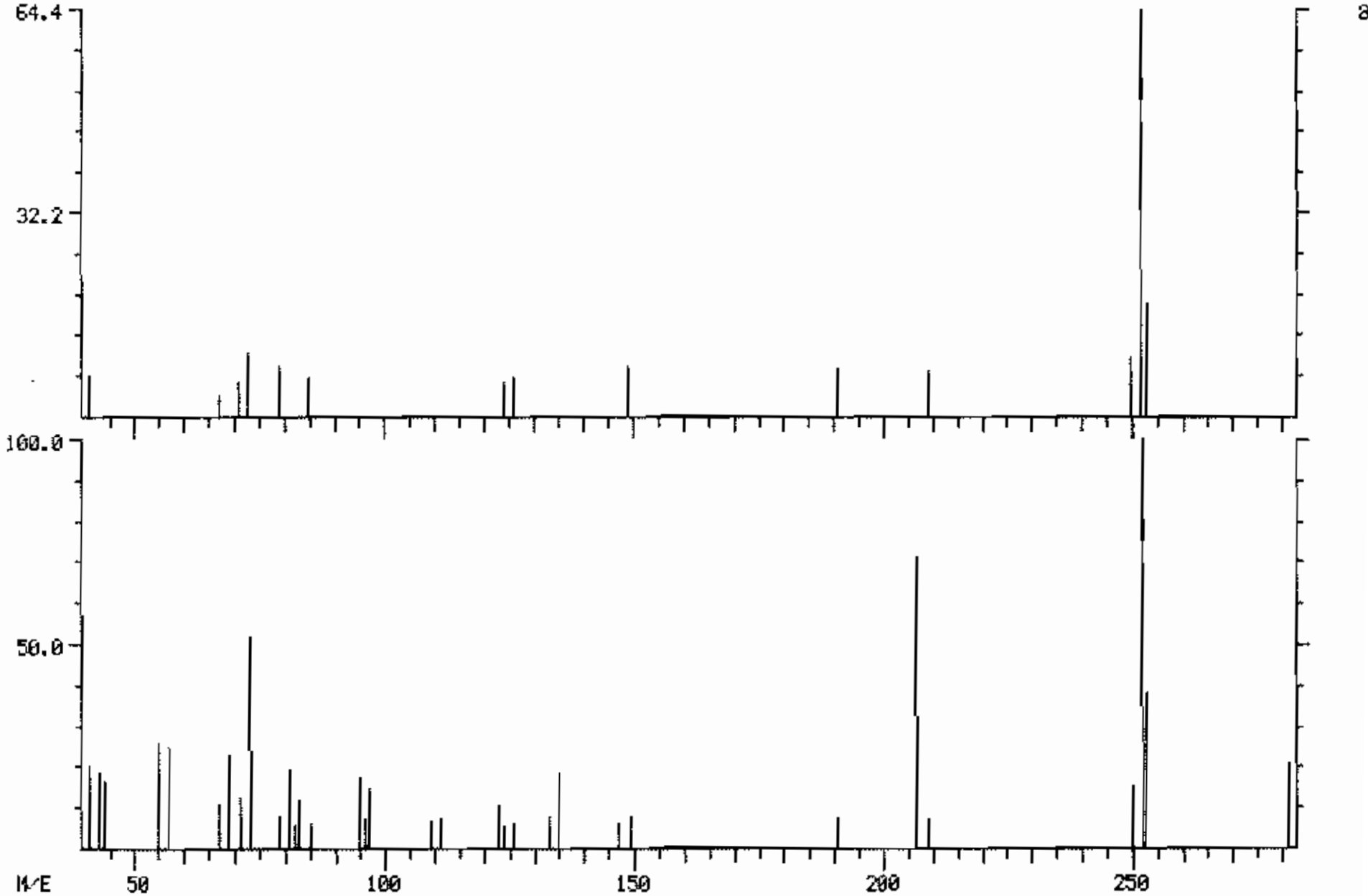
COMPUCHEM LABS

DUAL MASS SPECTRUM — DATA: GJ084990815 #1281 BASE M/E: 252/ 252

05/16/86 22:18:00 + 19:17 — R1C: 2207./ 8447.

SAMPLE: 1 UL CC#84990 (5-13-86) CS#URS WEST EPA#B-SEDIMENT

SECOND SPECTRUM — DATA: GJ084990815 #1281 409 BENZO(K)FLUORANTHENE (Q6#4) (207-08-9)



QUANTITATION REPORT FILE: STND

DATA: GJ084990B15.TI
 5/16/86 22:18:00
SAMPLE: 1 UL CC#84990 (5-13-86) CS#URS WEST EPA#B-SEDIMENT
CONDS.:
SUBMITTED BY: 15 ANALYST: 803

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	474	7:08	3	0.631	A VB	563191.	59.432	15.13
2	RIC	587	8:50	3	0.782	A BV	730679.	77.106	19.62
3	RIC	751	11:19	3	1.000	A BB	947629.	100.000	25.45
4	RIC	889	13:23	3	1.184	A BV	554404.	58.504	14.89
5	RIC	1141	17:11	3	1.519	A BB	462142.	48.768	12.41
6	RIC	1349	20:19	3	1.795	A BB	465504.	49.123	12.50

QUANTITATION REPORT FILE: UNKNOWN

DATA: GJ084990815.TI
 5/16/86 22:18:00
SAMPLE: 1 UL CC#84990 (5-13-86) CS#URS WEST EPA#B-SEDIMENT
CONDS. :
SUBMITTED BY: 15 ANALYST: 803

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	345	5:12	1	1.000	A BB	911264.	100.000	45.84
2	RIC	1120	16:52	1	3.246	A BV	139502.	15.309	7.02
3	RIC	1192	17:57	1	3.455	A BV	297432.	32.639	14.96
4	RIC	1289	19:25	1	3.736	A VV	261237.	28.668	13.14
5	RIC	1295	19:33	1	3.762	A VB	255880.	28.080	12.87
6	RIC	1430	21:32	1	4.145	A BB	122528.	13.446	6.16

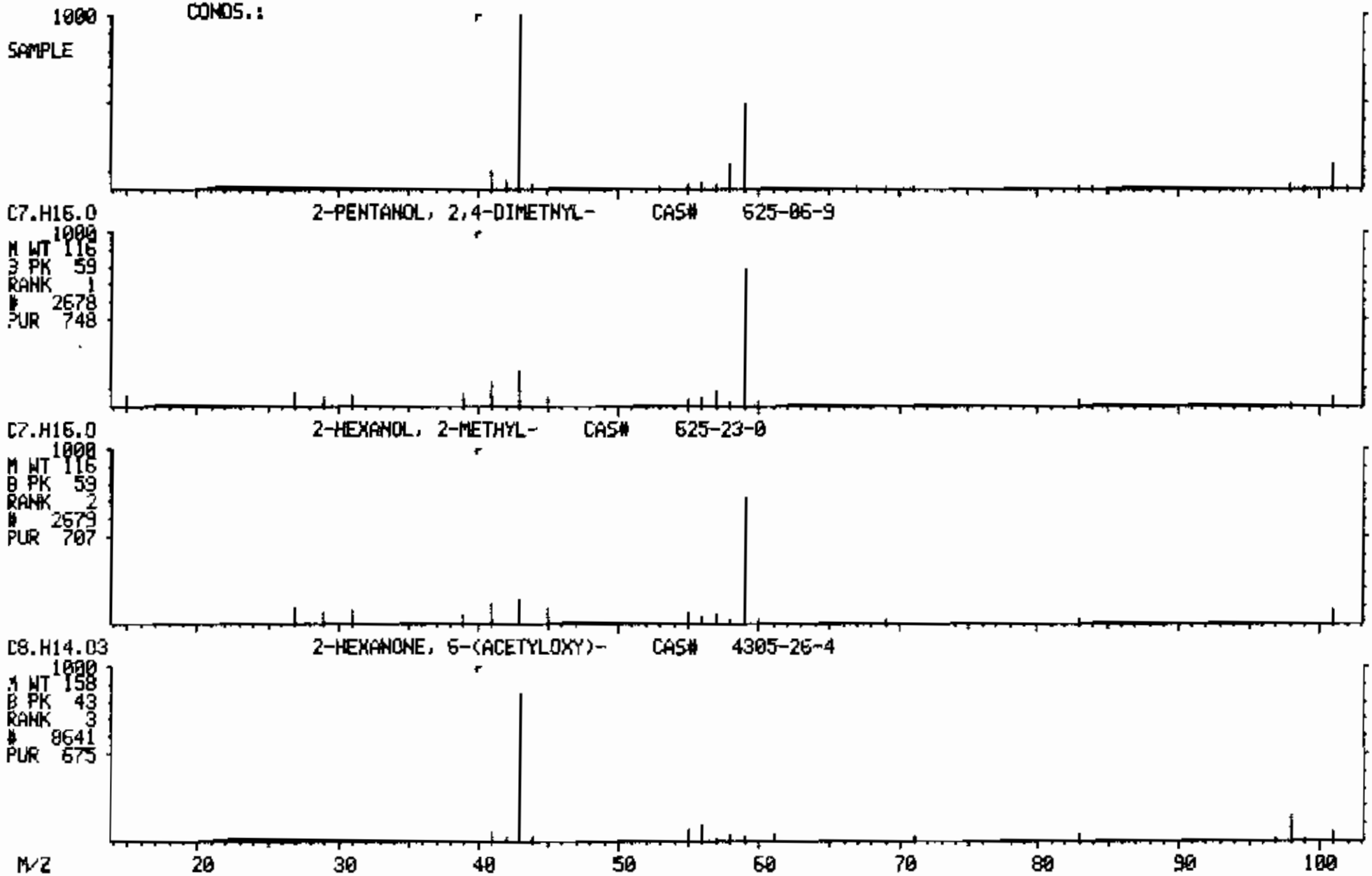
BNA

COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 22:18:00 + 5:12
SAMPLE: 1 UL CC#84990 (5-13-86) CS#URS WEST EPA#B-SEDIMENT
CONDS.:

DATA: GJ084990B15 # 345
ENHANCED (10B 2N 0T)

BASE M/Z: 43
RIC: 591871.



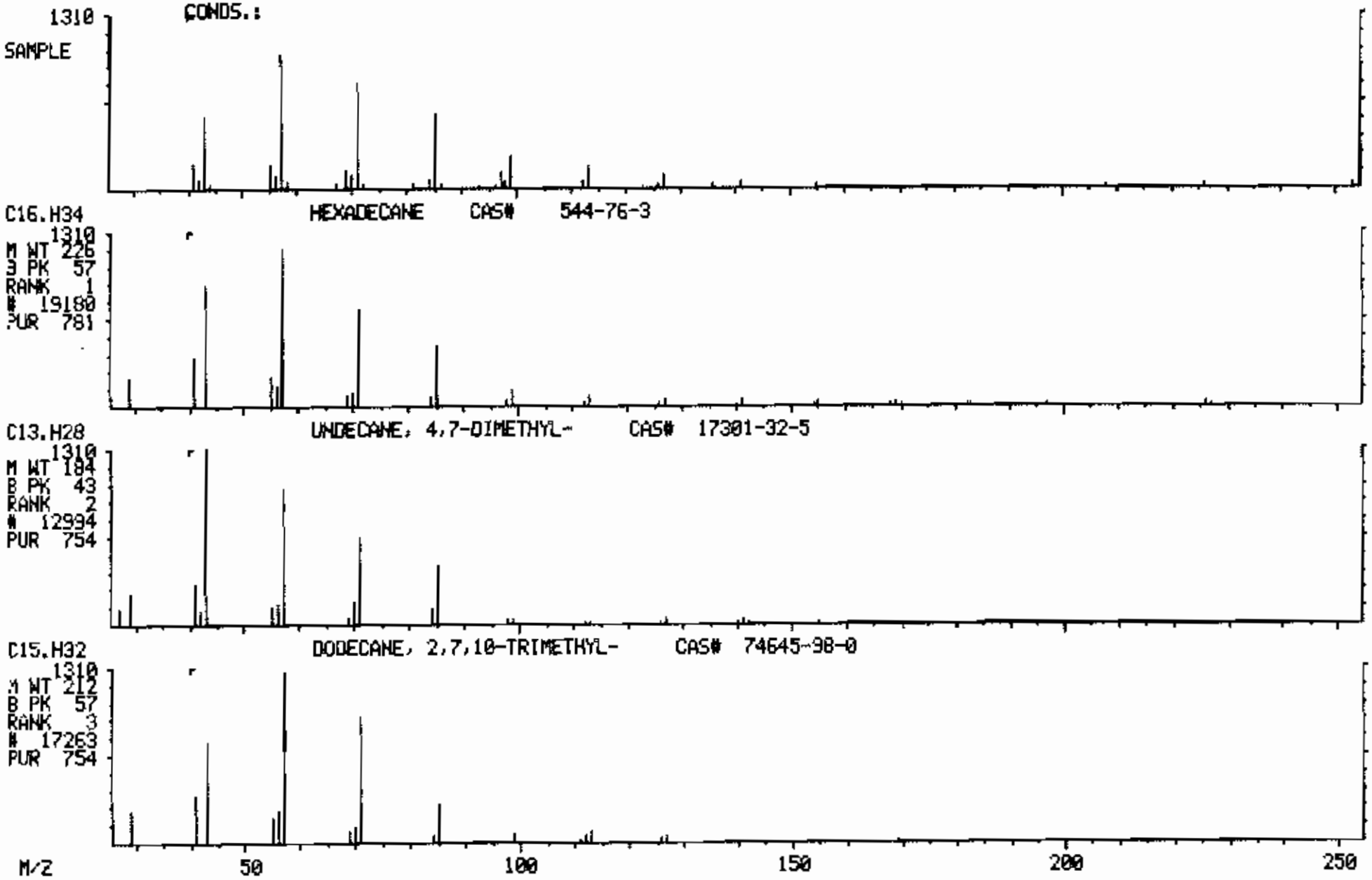
BNA3

COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 22:18:00 + 16:52
SAMPLE: 1 UL CC#04990 (5-13-86) CS#URS WEST EPA#B-SEDIMENT
CONDS.:

DATA: GJ084990B15 #1120
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 23743.



BNA3

COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 22:18:00 + 17:57
SAMPLE: 1 UL CC#04990 (5-13-86) CS#URS WEST EPA#8-SEDIMENT
CONDS.:

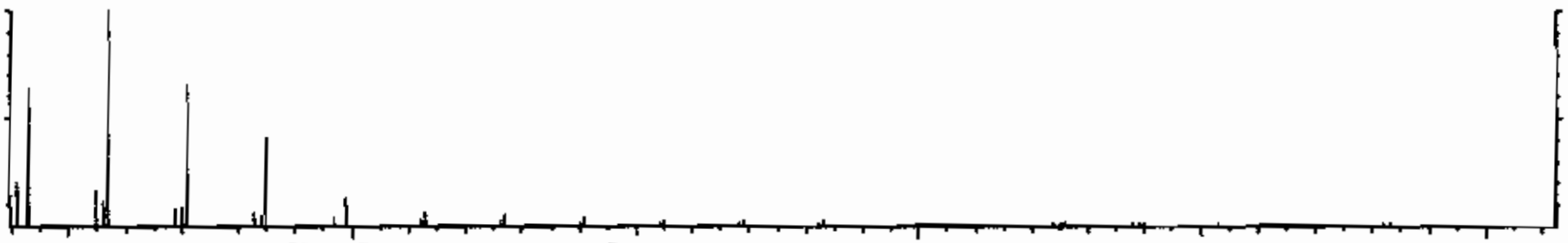
DATA: GJ084990815 #1192
ENHANCED (100 2N 0T)

BASE M/Z: 57
RIC: 126847.

1297
SAMPLE

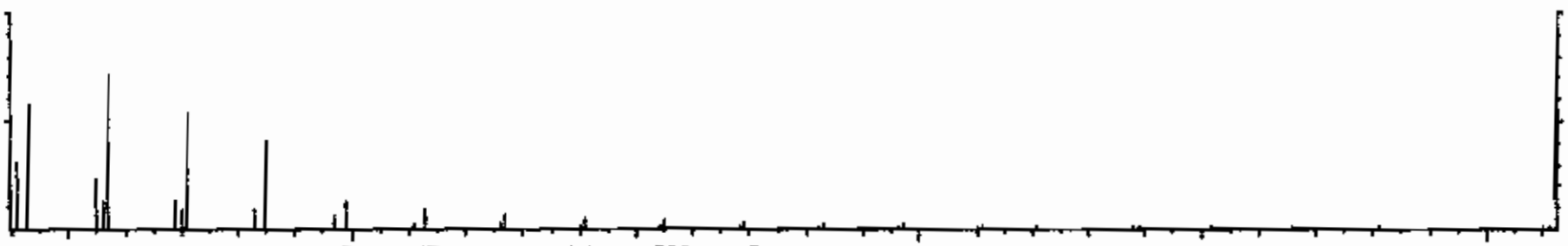
C21.H14.O3.N2.FE IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLMETHYLENE)BENZENAMINE-N,N']- CAS# 74764-11-7

1297
M WT 398
B PK 57
RANK 1
33414
PUR 816



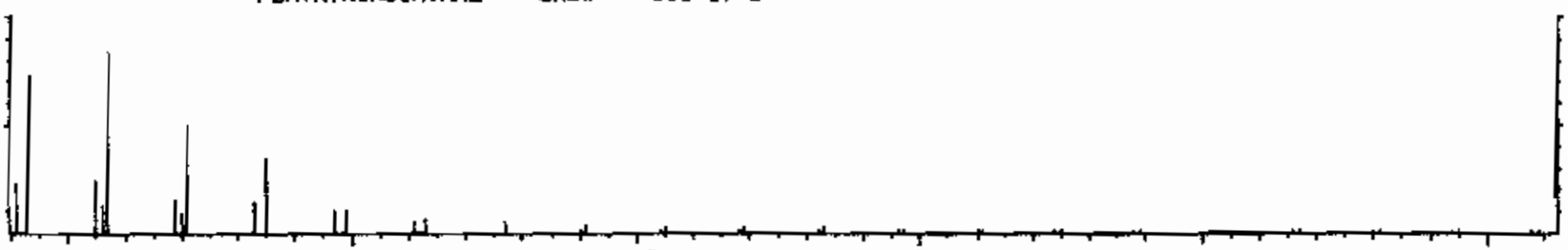
C22.H46 DOCOSANE CAS# 629-97-0

1297
M WT 310
B PK 57
RANK 2
27901
PUR 813



C35.H72 PENTATRIACONTANE CAS# 630-07-9

1297
M WT 492
B PK 57
RANK 3
36535
PUR 799



M/Z 50 100 150 200 250 300

BNA4

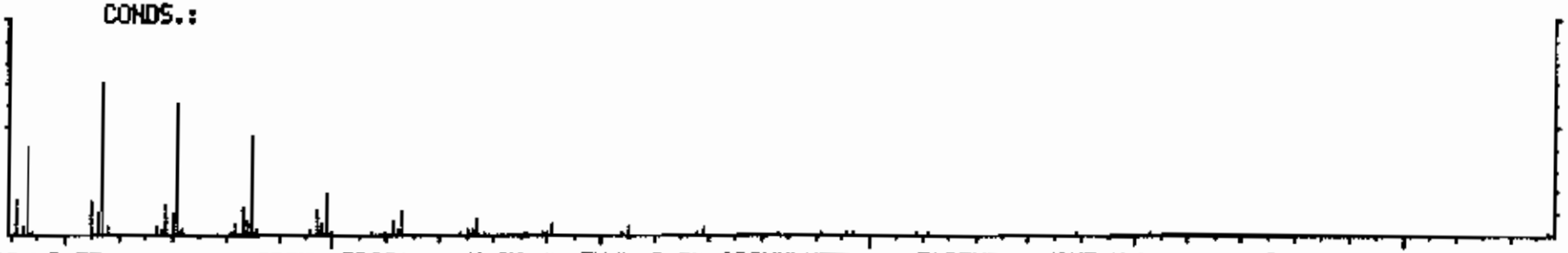
COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 22:18:00 + 19:25
SAMPLE: 1 UL CC#84990 (5-13-86) CS#URS WEST EPA#8-SEDIMENT
CONDS.:

DATA: GJ084990815 #1289
ENHANCED (10B 2N 0T)

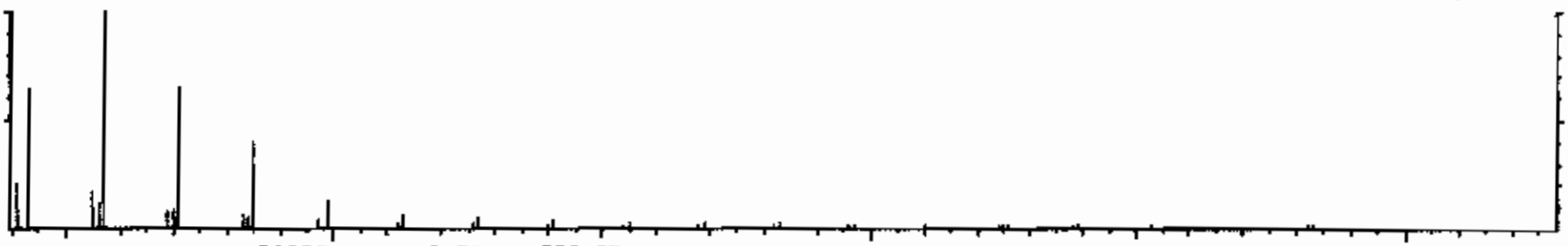
BASE M/Z: 57
RIC: 69583.

1424
SAMPLE



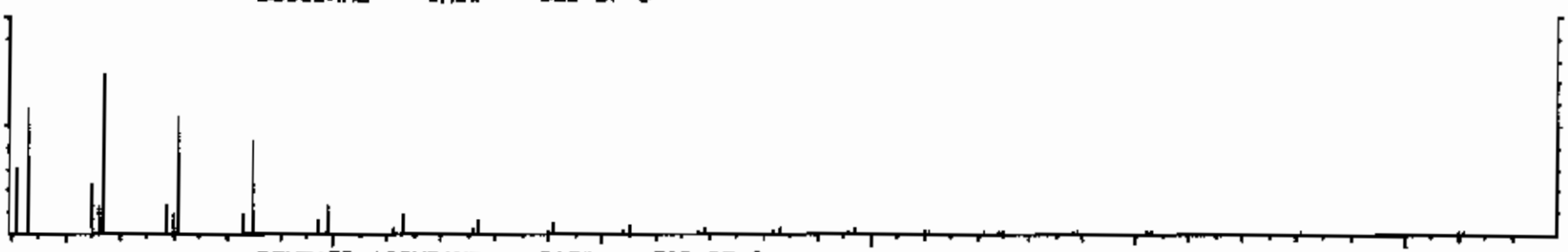
C21.H14.O3.N2.FE IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLMETHYLENE)BENZENAMINE-N,N']- CAS# 74764-11-7

1424
M WT 398
B PK 57
RANK 1
33414
PUR 799



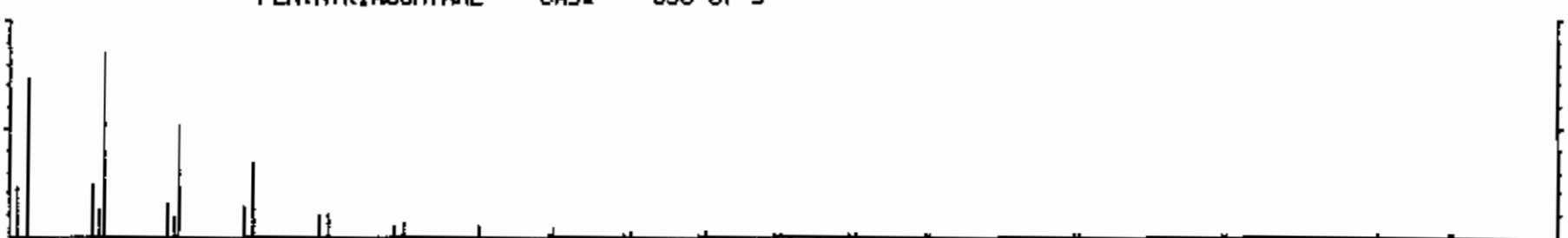
C22.H46 DOCOSANE CAS# 629-97-0

1424
M WT 310
B PK 57
RANK 2
27901
PUR 793



C35.H72 PENTATRIACONTANE CAS# 630-07-9

1424
M WT 492
B PK 57
RANK 3
36535
PUR 776



M/Z 50 100 150 200 250 300

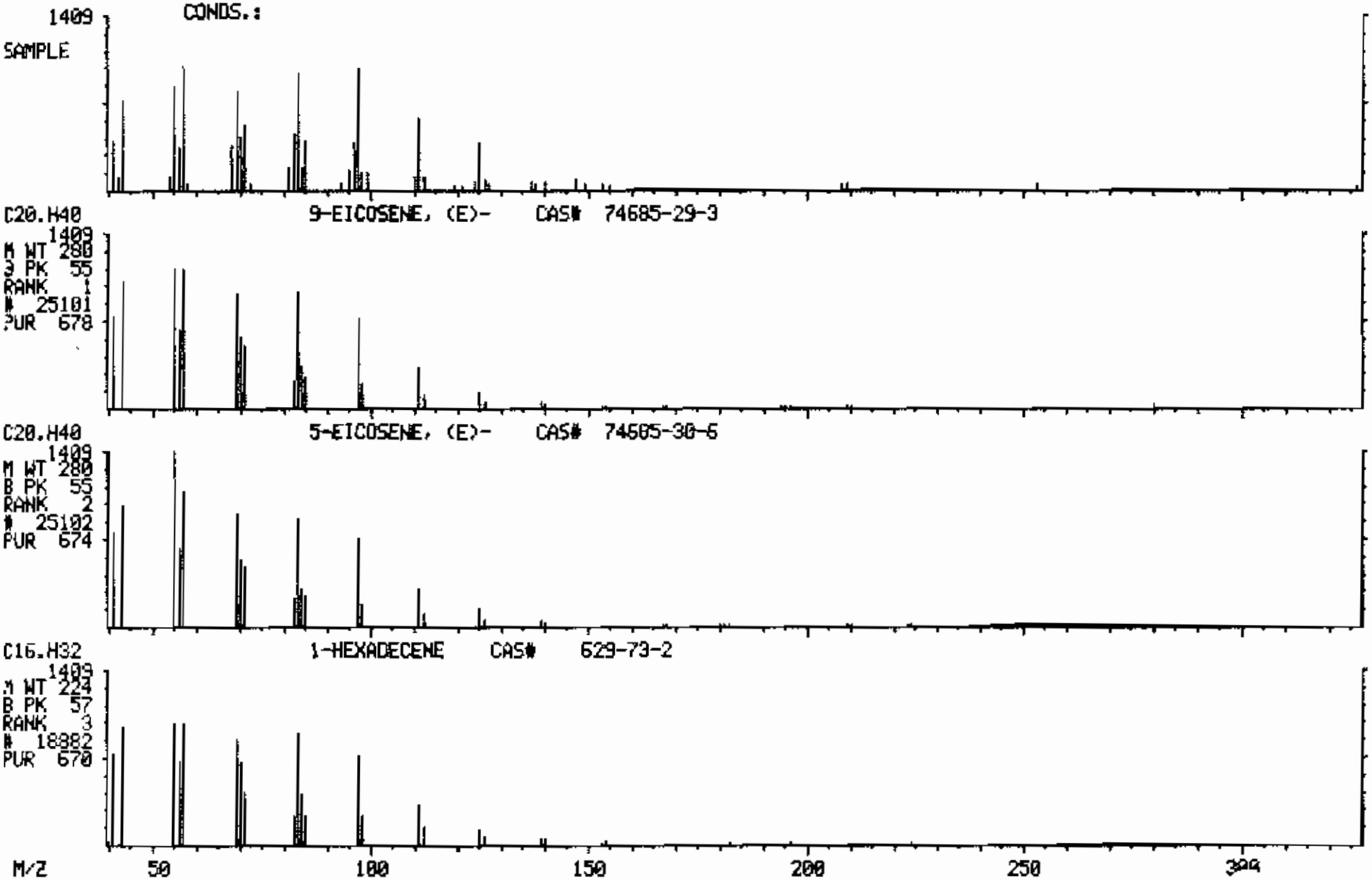
BNA 5

COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 22:10:00 + 19:33
SAMPLE: 1 UL CC#84990 (5-13-86) CS#URS WEST EPA#8-SEDIMENT
CONDS.:

DATA: GJ084990B15 #1298
ENHANCED (10B 2N 0T)

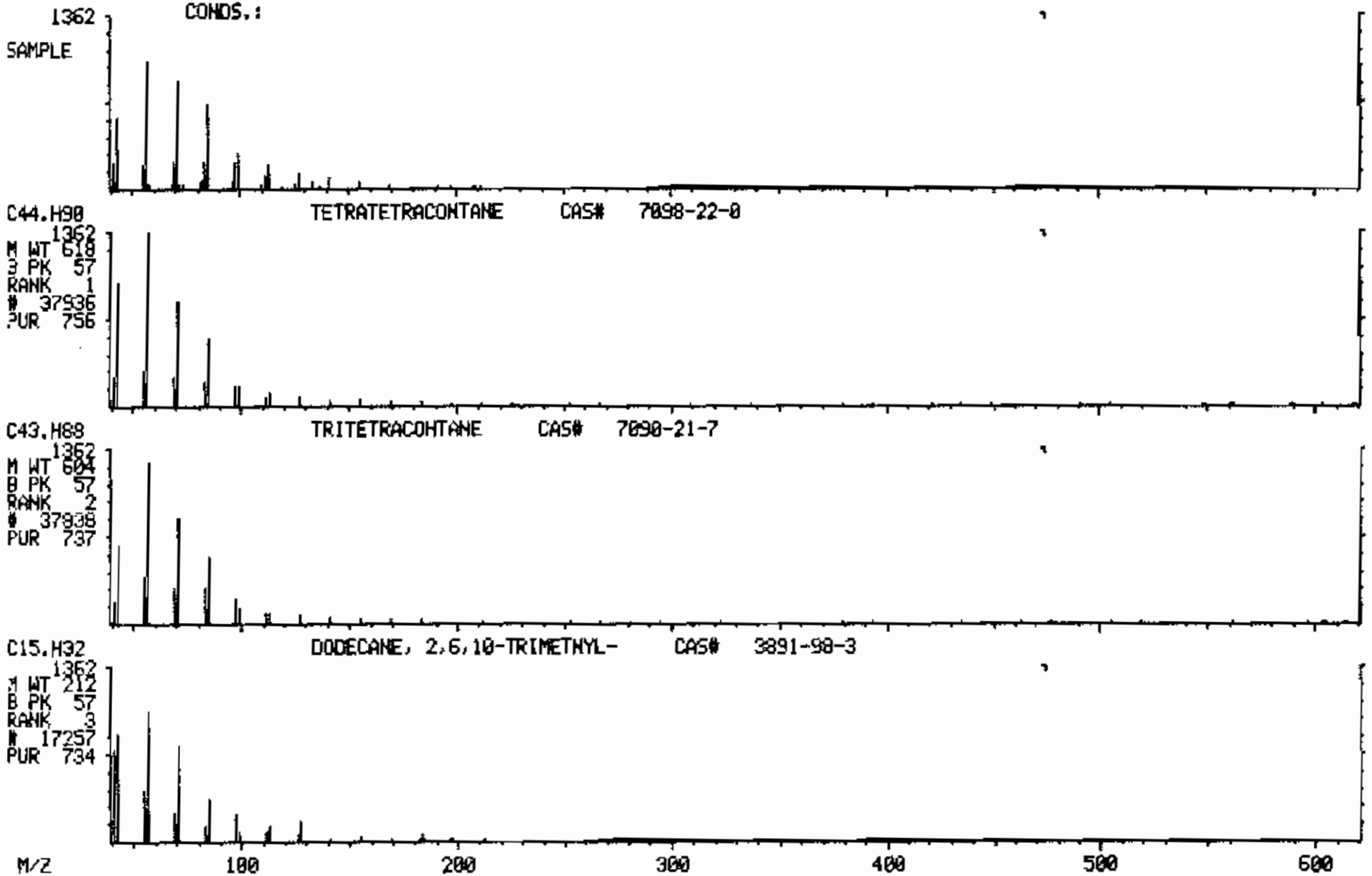
BASE M/Z: 57
RIC: 26495.

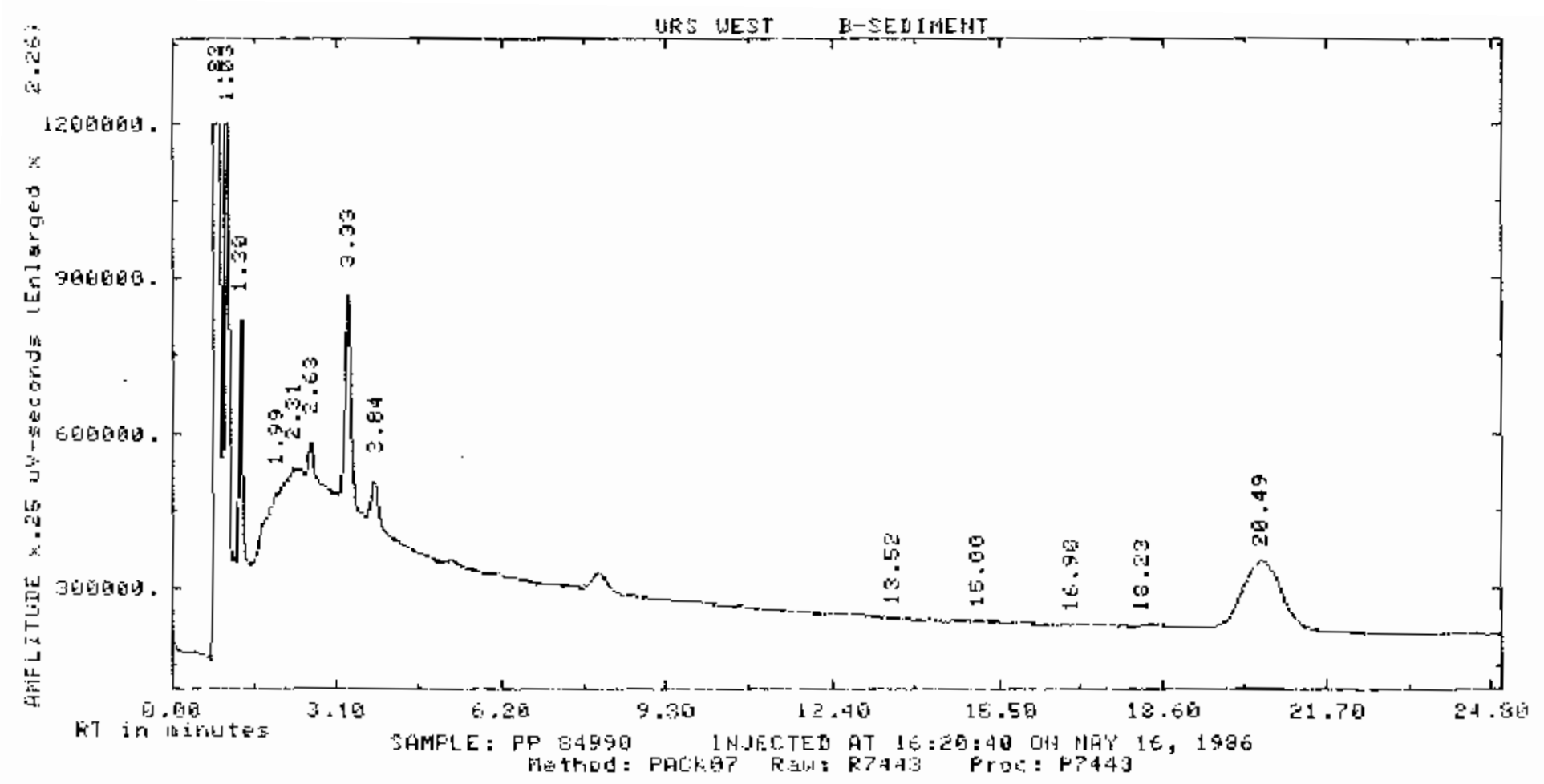


BNA-6

COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 22:10:00 + 21:32
DATA: GJ084990B15 #1430
ENHANCED (10B 2N 0T)
BASE M/Z: 57
RIC: 26751.
SAMPLE: 1 UL CC#84990 (S-13-06) CS#URS WEST EPA#8-SEDIMENT
CONDS.:




URS WEST B-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 2.26)
1200000.
900000.
600000.
300000.
1.83
1.30
1.99
2.31
2.63
3.33
3.84
13.52
15.00
16.98
18.22
20.49
0.00
3.10
6.20
9.30
12.40
15.50
18.60
21.70
24.80
RT in minutes
SAMPLE: PP 84990 INJECTED AT 16:20:40 ON MAY 16, 1986
Method: PACK07 Raw: R7443 Proc: P7443

Report: 216.BB Channel: 7 URS WEST B-SEDIMENT

Sample: PP 84990 Injected at 16:20:40 ON MAY 16, 1986

APCT Method: PACK07 Seq: SEQ74 Subsq/Samp: 1/43 Btl: 43

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	10000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.36	5.0	500.00	NO

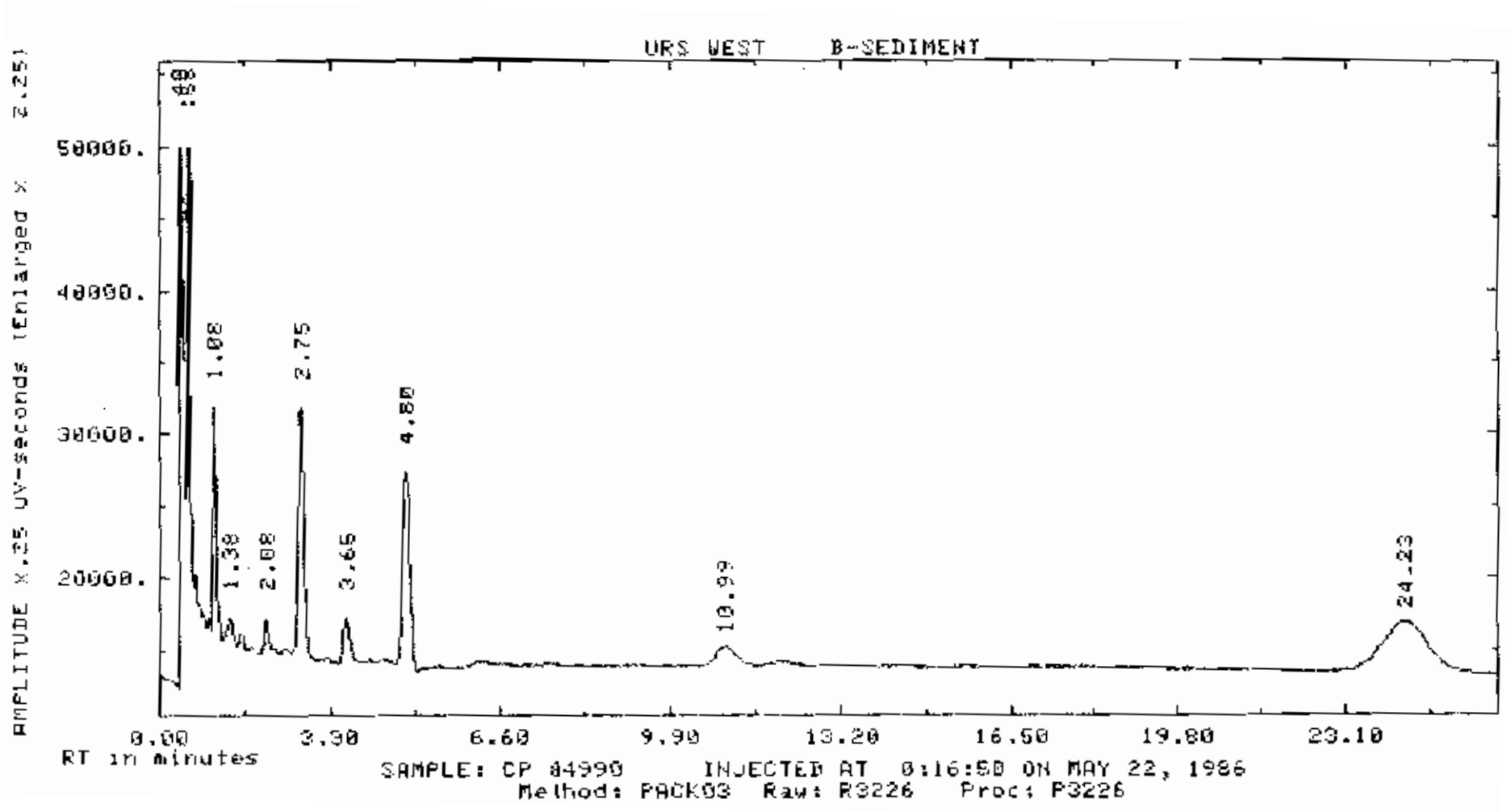
Actual run time: 25.008 minutes

Ended not on baseline
No reference peak found

RT	ITM	Factor	Area		AREA %	Name
.83	0.00	.10000E+01	9376530.	BS	230.632	
1.03	0.00	.10000E+01	4390396.	BS	107.989	
1.30	0.00	.10000E+01	1002612.	BS	24.661	
1.99	0.00	.10000E+01	45642.	BB	1.123	
2.31	0.00	.10000E+01	58979.	BB	1.451	
2.63	0.00	.10000E+01	246975.	BB	6.075	
3.33	0.00	.10000E+01	1758183.	BB	43.246	
3.84	0.00	.10000E+01	135166.	BB	3.325	
13.52	0.00	.10000E+01	28107.	BB	.691	
15.08	0.00	.10000E+01	85306.	BB	2.098	
16.90	0.00	.10000E+01	38150.	BB	.938	
18.23	0.00	.10000E+01	45134.	BB	1.110	
20.49	0.00	.10000E+01	3116696.	BF	76.661	

Total Area = 20327888. Total AREA % = 3116696.000

Processed data file: P7443 Raw data file: R7443


URS WEST B-SEDIMENT
AMPLITUDE X.25 UV-seconds (Enlarged X 2.25)
50000.
40000.
30000.
20000.
.00
1.08
1.38
2.08
2.75
3.65
4.80
10.99
24.23
0.00
3.30
6.60
9.90
13.20
16.50
19.80
23.10
RT in minutes
SAMPLE: CP 84990 INJECTED AT 0:16:50 ON MAY 22, 1986
Method: PACK03 Raw: R3226 Proc: P3226

Report: 382.00 Channel: 3 URS WEST B-SEDIMENT

Sample. CP 84990 Injected at 0:16:50 ON MAY 22, 1986

ZERO Method: PACK03 Seq: SEQ32 Subsq/Samp. 1/26 Rtl: 26

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	.300	0.00	5000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	500.00	NO

Actual run time: 26.008 minutes

Ended not on baseline

RT	ITM	Factor	Area		AREA %	Name
.40	0.00	.10000E+01	73411.	BB	81.202	
.48	0.00	.10000E+01	8381.	BB	9.271	
.58	0.00	.10000E+01	58021.	BB	64.178	
1.08	0.00	.10000E+01	29026.	BB	32.107	
1.38	0.00	.10000E+01	6079.	BB	6.724	
2.08	0.00	.10000E+01	6056.	BB	6.699	
2.75	0.00	.10000E+01	61969.	BB	68.545	
3.65	0.00	.10000E+01	13966.	BB	15.448	
4.80	0.00	.10000E+01	68795.	BB	76.096	
10.99	0.00	.10000E+01	17964.	BB	19.870	
24.23	0.00	.10000E+01	108360.	BF	119.860	

Total Area = 452029. Total AREA % = 108360.250

Processed data file: P3226 Raw data file: R3226

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB ONLY IN PLATINUM FORMAT
CASE#: URS WEST DUE DATE: 6/11/86

VOA R[ ] R2[ ] D[ ] (:1)
GC/MS WORKSHEET COMPUCHEM#: 84990
R3[ ] R4[ ] D2[ ] (:1)

LOW LEVEL SOLID

Sample Prep Code---155
Instrument Code----257
Compound List------146
Surrogate Std------394
Internal Std-------036

SAS: EPA#: B-SEDIMENT Dry Weight Factor 1.77

GC/MS ANALYSIS
Amount Purged: [✓] 10mls/Xg soil or [ ]Dilution_____ul/10000ul/Xg soil
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BF860514B18 Disk(2940)
Blank Filename GB860515B18 Disk ( )
Standard Filename GS860515C18 Disk ( )
Sample Filename GN084990C18 Disk ( )

ANALYST(S): Injection 891 Work-up 891

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,ES,SM,JS,SL,SH,JA,DA

Non-Entry Codes IM,IL,1H,SW,CT,CS,PC,NR IF,LA,DI,CD,RN,DW,SI,SF UP,BB,DT,VC,FD,NS

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: 0

[ ] Reprep neat required

[ ] Reprep using_____g

Quality Assurance Notice(s):
Notices Required_____

[ ] Dilute (:1)

COMMENTS:

GC/MS Review SMH Date 5/15/86 Auditor_____Date___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CN084990AE C18 /_____

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

AC387 (09/85)

CASE#: URS West DUE DATE: 6/11/86

SEMI-VOLATILE
GC/MS WORKSHEET

COMPUCHEM#: 84990

J(✓] R[ ] D[ ] (:1]
J2[ ] R2[ ] D2[ ] (:1]

LOW LEVEL SOLID
Deliverable Code 069

Sample Prep Code--- -717
Instrument Code---255
Compound List---772
Surrogate Std---393
Internal Std---035 (added by GC/MS)

SAS: EPA#: B-sediment Dry Weight Factor_____.772____

GC/MS ANALYSIS
Volumes mixed: BN___200ul___ul Acid_____—_____ul
Internal Standard Volume Added__5______ul
Mixed Sample Volume Injected___1_____ul
Date of Sample Bottle Analyzed__5/13/86_
DFTPP Filename_D4860516B15_______Disk (3117)
Standard Filename_H4860516B15______Disk (/)
Sample Filename___G5084990B15___Disk (/)

ANALYST(S): Injection_____803_____ Work-up____807______

GC/MS REVIEW

CONDITION CODE: SA

Entry Codes DK,EA,JA, ES,AL,AH,PL,PH,FL,JS
FH,NL,NH,YL,SL,SH,SH,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,DP
ED,IF,LA,DI,CD,RN,DW,NS

Disposition;
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

Extraneous Peak Search Results:
# of Peaks Found:___6____

Quality Assurance Notice(s):
Notices Required___0_____

COMMENTS: QL805139

GC/MS Review_______ Date___/___/___ Auditor [signature] Date_5/20/86

REPORT INTEGRATION
Total # of Injections: 2
Final Reportable Package(s): G5084990B15__________/______________

QA COMMENTS:

Initials_______ Date___/___/___

FINAL REVIEW: Initials [signature] 5/13 Date___/___/___

EPASOLID (3)

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB ONLY IN PLATINUM FORMAT
CASE # URS WESTDATE DUE 6/11/86

PESTICIDE WORKSHEET
COMPUCHEM # 84990
Sample Prep Code---716
Instrument Code----124
Compound List------177
Surrogate Std------396

LOW LEVEL SOLID

SAS: ID#: B-SEDIMENT Dry Weight Factor
Blank Associated with Case _____ _____ _____ 1.77
Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes |___|

Wt. of sample 30.24 g final volume of extract 2.0 mls

portion of wt. in pesticide 1/10 .

ANALYSIS INFORMATION: COMMENTS |___| Send to QA

Inst. # / |___| QA Approved
Date Sequence Dil. Fact.

5-16 7 74 1 BDL |___| Need GC/MS Confirmation

5-22 3 32 1

___ ___ ___ ___ Analyst 924/899 Date 5-23-86

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE 3117 X Dilution Factor 5 X 100 = 99 % Recovery
AREA IN STD 15762
% Recovery X 0.1 ug/ml = .099 ug/ml

+EA = re-extract acceptable
JA = reinject acceptable
QA = repeat confirmed original results
OK = original data acceptable (not for REPEATS)
NS = insufficient sample for repeat
DL = DBC low (<20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.

FINAL STATUS CODE+= OK

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

|___| GANA |___| GAN3 OA notice included.

SAMPLE DISPOSITION Code

|___| Complete.....

|___| Requires Re-extraction.. 716

|___| Requires reprep..... 930

|___| Requires cleanup..... 901

Audited By _____ Date _____

(19)

VOLATILE PREP WORKSHEET

No 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
84986	-155	URS WEST			5.07g	5-13-86					ENT
84988	"	"	BS		0ml	"					
84989	"	"	SS	84986	5.07g	"					
84990	"	"			5.01g	"					ENT
84991	"	"	SS	84990	5.01g	"					
85000	"	"			5.02g	"					ENT
85001	"	"			5.07g	"					ENT
85002	"	"			5.00g	"					ENT
85003	"	"			5.01g	"					ENT
85004	"	"			5.09	"					ENT
85005	"	"			5.09	"					ENT
85028			B		5.0ml	5-13-86					
85029			B		0ml	~~5-13-86~~					
			B								

Surrogate No. /

Amount

Lot

May 5-13-86

Schedule Reference

Manual Counter 2781 715

(47)

VOLATILE PREP WORKSHEET

№ 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
84986	-158	URS WEST			20.09g	5-13-86			✓		ENT
84987			BS		40 ml				✓		
84990					20.06g				✓		ENT
85000					20.02g				✓		ENT
85001					20.07g				✓		ENT
85002					20.02g				✓		ENT
85003					20.05g				✓		ENT
85004					20.10g				✓		ENT
85005					20.01				✓		ENT
85034			S		40 ml	5-13-86			✓		RERUN 5/14
85035			S		40 ml	5-13-86			✓		
			S								

Surrogate No. # 381

Amount 200 µl

Lot 12471

MSA 5/13/86

Schedule Reference

Manual Counter 288/472

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: Linda L.A.P.

DATE ASSIGNED 5-13-86

PAGE _____ OF _____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
84992	-153	WKSwest	NA	BS		30.00	1ml	—		—			5/13	
84993	-717	WKSwest		BS		30.00	—	0.9		1ml			5/13	
84994		WKSwest		SS	84001	30.58	—	0.9		1ml			5/13	277/289
84995		WKSwest		SS	84001	30.32	—	0.9		1ml			5/13	
84986		WKSwest				30.89	1ml	0.9		1ml			5/13	
84990						30.24	1ml	0.9		1ml			5/13	
85000						30.41	1ml	0.9		1ml			5/13	
85001						30.82	1ml	0.9		1ml			5/13	
85002						30.45	1ml	0.9		1ml			5/13	
85003						30.85	1ml	0.9		1ml			5/13	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17794			17686		
SPIKE	NO.		3012	2021			
	AMT.		1.0ml	1.0ml			
	LOT		17654	17771			

Blanks 85702, 85703 } on BF 9782 along w/other samples

MANUAL COUNTER 270/613

FINAL VOLUME VERIFIED L.A.P.

SUPERVISOR REVIEWED CK

EXTRACTS RECEIVED BY [illegible] 5/13/86

Acetone Lot # 209

Nº 9781

L.A.P.

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: [illegible]

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	FINAL EXTRACT VOL (MLS) SV / B/N	FINAL EXTRACT VOL (MLS) ACID	FINAL EXTRACT VOL (MLS) PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
85004	-717	Wswest	NA			30.44	1ml	0.9		1.0			5/13	
85005	↓	↓	↓			30.30	1ml	0.9		1.0			5/13	
85102				B1		30.00	1ml	0.9		1.00			5/13	
85103	↓			B2		30.00	1ml	0.9		1.00			5/13	

Addn samples on [illegible] 9778

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	25ul			20ul		
	LOT	17794			17686		
SPIKE	NO.						
	AMT.						
	LOT						

MANUAL COUNTER 270/613

FINAL VOLUME VERIFIED L.A.P.

SUPERVISOR REVIEWED [illegible]

EXTRACTS RECEIVED BY BD 5/13/86

Acetone Lot # 209

№ 9782

EXTRACTION WORKSHEET
Pesticide/Herbicide

ASSIGNED TO: Linda 11

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ALUMINA COLUMN START VOL	FINAL VOL	DATE COMPT	COMMENTS
84992	157	UKSwat	NA	BS		30.00	1.1	—		—		2ml		—
84993	710	UKSwat		BS		30.00	—	0.9		1.1				
84994		UKSwat		SS	8501	30.58	—	0.9		1.1				779/84
84995		UKSwat		SS	8001	30.33	—	0.9		1.1				
84986		UKSwat	A SEDIMENT			30.89	1.1	0.9		1.1	1.0ml	2.0ml	5.14.86	
84990			B SEDIMENT			30.24	1.1	0.9		1.1	1.0	2.0	5.14	
85000			D SEDIMENT			30.41	1.1	0.9		1.1	1.0	2.0	5.14	
85001			E SEDIMENT			30.32	1.1	0.9		1.1	1.0	2.0	5.14	
85002			F SEDIMENT			30.45	1.1	0.9		1.1	1.0	2.0	5.14	
85003			G SEDIMENT			30.85	1.1	0.9		1.1	1.0	2.0	5.14	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17794			17686		
SPIKE	NO.		3012	3021			
	AMT.		1ml	1.0ml			
	LOT		17654	17777			

Blank 85102 ? on Bg 9782 along w/other S
Blank 85103
CASE — BW 05/14/86

MANUAL COUNTER 370 /613

POSTED 5-14-86 OK

FINAL VOLUME VERIFIED L.H.P.

SUPERVISOR REVIEWED [signature]

EXTRACTS RECEIVED BY [signature] 5/13/86

Acetone Lot # 309

Alumina Batch 5.13.86 AL

№ 978

EXTRACTION WORKSHEET

Pesticide/Herbicide

ASSIGNED TO: [illegible]

DATE ASSIGNED 5-15-86

PAGE ____ OF ____

OKS

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ALUMINA COLUMN START VOL	ALUMINA COLUMN FINAL VOL	DATE COMPT	COMMENTS
85004	-71b	UXSWEST	H-SEDIMENT NA			20.00	1.1			1.0 ml	10 ml	2.0 ml	5-14-86	
85005		UAS WEST	C-SEDIMENT			30.20	1.1			1.0 ml	10	2.0	5-14	
85102				B		20.00				1.0 ml	1.0 ml	2.0 ml	5-14-86	
85103				B2		10.00				1.0 ml	10	2.0	5-14	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			376		
	AMT.	0.5 ml		[illegible]	2.0 ml		
	LOT	17794			12C86		
SPIKE	NO.						
	AMT.						
	LOT						

Add'l samples on OK 9781
Case ✓ BW 05/14/86

MANUAL COUNTER 570/613

FINAL VOLUME VERIFIED LAP

SUPERVISOR REVIEWED [illegible]

EXTRACTS RECEIVED BY BJ 5/13/86

Acetone Lot # 309
Alumina Batch 5-13-86-AL

POSTED 5-14-86 OES

№ 978[illegible]

COMPUCHEM # 084990 FILE: GH084990C18 COMPOUND LIST 146 PAGE 1
VOLATILE - LOW LEVEL SOLID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
234	128	I	BROMOCHLOROMETHANE (IS) <75	192	60800.	50.0		
221	50		CHLOROMETHANE <75-01-4> E5#				BDL	18.
220	94		BROMOMETHANE <78-83-9> E5#3				BDL	18.
231	62		VINYL CHLORIDE <75-01-4> E5				BDL	18.
209	64		CHLOROETHANE <75-00-3> E5#5				BDL	18.
222	84		METHYLENE CHLORIDE <75-09-2			5.6	10.	9.
252	43		ACETONE (2-PROPANONE) <67-6			9.8	J B	18.
254	76		CARBON DISULFIDE <75-15-0>				BDL	9.
216	96		1,1-DICHLOROETHYLENE <75-35				BDL	9.
214	63		1,1-DICHLOROETHANE <75-34-3				BOL	9.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	9.
211	83		CHLOROFORM <67-66-3> E5#12			~~1.4~~	BDL	9.
215	62		1,2-DICHLOROETHANE <1D7-06-				BDL	9.
248	114	I	1,4-DIFLUOROBENZENE (I8) <5	400	239000.	50.0		
253	72		2-BUTANONE <78-93-3> E6#2				BDL	18.
227	97		1,1,1-TRICHLOROETHANE <71-5				BDL	9.
206	117		CARBON TETRACHLORIDE <56-23				BDL	9.
257	43		VINYL ACETATE <108-05-4> E6				BDL	18.
212	83		BROMODICHLOROMETHANE <75-27				BDL	9.
217	63		1,2-DICHLOROPROPANE <78-87-				BDL	9.
250	75		TRANS-1,3-DICHLOROPROPENE <				BDL	9.
229	130		TRICHLOROETHYLENE <79-01-6>				BDL	9.
8	129		CHLORODIBROMOMETHANE <124-4				BDL	9.
228	97		1,1,2-TRICHLOROETHANE <79-0				BDL	9.
203	78		BENZENE <71-43-2> E6#12				BDL	9.
218	75		CIS-1,3-DICHLOROPROPENE <10				BDL	9.
210	63		2-CHLOROETHYL VINYL ETHER <				BDL	18.
205	173		BROMOFORM <75-25-2> E6#15				BDL	9.
270	117	I	D5-CHLOROBENZENE (IS)	502	231000.	50.0		
256	43		4-METHYL-2-PENTANONE <108-1				BDL	18.
255	43		2-HEXANONE <591-78-6> E7#3				BDL	18.
224	164		TETRACHLOROETHENE <127-18-4				BDL	9.
223	83		1,1,2,2-TETRACHLOROETHANE <				BDL	9.
225	92		TOLUENE <108-88-3> E7#6				BDL	9.
207	112		CHLOROBENZENE <108-90-7> E7				BDL	9.
219	106		ETHYLBENZENE <100-41-4> E7#				BDL	9.
251	104		STYRENE <100-42-5> E7#9				BDL	9.
240	106		M-XYLENE E7#10				BDL	9.
271	106		O,P-XYLENE E7#11				BDL	9.
258	65	S	D4-1,2-DICHLOROETHANE E8#2			48.8	98. %	
247	95	S	BROMOFLUOROBENZENE <460-00-			47.6	95. %	
233	98	S	D8-TOLUENE E8#4			47.1	94. %	
CHECKSUMS:								
2175.			827	1094	530800.	310.3	297.	

VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REFORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE E8#2	48.8	50.0	98.	70-121	X	
41	247	BROMOFLUOROBENZENE <460-00-	47.6	50.0	95.	74-121	X	
42	233	D8-TOLUENE E8#4	47.1	50.0	94.	81-117	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#1) BROMOCHLOROMETHANE > 10000 COUNTS	/	

CORRECTION FACTOR CALCULATION:

$$\frac{5.0\ G}{\text{WET WEIGHT OF SAMPLE (G)}} \times \text{GC/MS DILUTION FACTOR} \times \text{DRY WEIGHT FACTOR} =$$

$$\frac{5.0\ G}{5.01\ (G)} \times \frac{1.0}{} \times \frac{1.8}{} = 1.770$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

COMPUCHEM # 084990 FILE: GJ08499DB15 COMPOUND LIST 172 PAGE 1
SEMI-VOLATILE - LOW LEVEL SOLID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
494	152	I	D4-1,4-DICHLORDBENZENE (IS#	474	76300.	40.0		X 77
610	94		PHENOL (Q1#3) <108-95-2>				BDL	340.
411	93		BIS(2-CHLORDETHYL)ETHER (Q1				BDL	340.
601	128		2-CHLOROPHENOL (Q1#6) <95-5				BDL	340.
421	146		1,3-DICHLORDBENZENE (Q1#7)				BDL	340.
422	146		1,4-DICHLORDBENZENE (Q1#8)				BDL	340.
474	108		BENZYL ALCOHOL (Q1#9) <100-				BDL	340.
420	146		1,2-DICHLORDBENZENE (Q1#10)				BDL	340.
620	108		2-METHYLPHENOL (Q1#11) <95-				BDL	340.
412	45		BIS(2-CHLORDISOPRDPYL)ETHER				BDL	340.
622	108		4-METHYLPHENOL (Q1#13) <106				BDL	340.
442	70		N-NITROSO-DI-N-PRDPYLAMINE				BDL	340.
436	117		HEXACHLORDETHANE (Q1#15) <6				BDL	340.
440	77		NITROBENZENE (Q1#16) <98-95				BDL	340.
460	136	I	D8-NAPHTHALENE (IS#2)	587	309000.	40.0		
438	82		ISOPHORONE (Q2#2) <78-59-1>				BDL	340.
606	139		2-NITROPHENOL (Q2#3) <88-75				BDL	340.
603	122		2,4-DIMETHYLPHENOL (Q2#4) <				BDL	340.
625	122		BENZOIC ACID (Q2#5) <65-85-				BDL	1700.
410	93		BIS(2-CHLORDETHOXY)METHANE				BDL	340.
602	162		2,4-DICHLORDPHENOL (Q2#7) <				BDL	340.
446	180		1,2,4-TRICHLORDBENZENE (Q2#				BDL	340.
39	128		NAPHTHALENE (Q2#9) <91-20-3				BDL	340.
475	127		4-CHLORDANILINE (Q2#10) <10				BDL	340.
434	225		HEXACHLORDBUTADIENE (Q2#11)				BDL	340.
608	107		P-CHLORO-M-CREBOL (Q2#12) <				BDL	340.
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	340.
495	164	I	D10-ACENAPHTHENE (IS#3)	751	134000.	40.0		
435	237		HEXACHLORDCYCLOPENTADIENE (				BDL	340.
611	196		2,4,6-TRICHLORDPHENOL (Q3#3				BDL	340.
626	196		2,4,5-TRICHLORDPHENOL (Q3#4				BDL	1700.
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	340.
478	65		2-NITROANILINE (Q3#6) <88-7				BDL	1700.
425	163		DIMETHYL PHTHALATE (Q3#7) <				BDL	340.
402	152		ACENAPHTHYLENE (Q3#8) <208-				BDL	340.
479	138		3-NITROANILINE (Q3#9) <99-0				BDL	1700.
401	153		ACENAPHTHENE (Q3#10) <83-32				BDL	340.
605	184		2,4-DINITRDPHENOL (Q3#11) <				BDL	1700.
607	139		4-NITROPHENOL (Q3#12) <100-				BDL	1700.
476	168		DIBENZOFURAN (Q3#13) <132-6				BDL	340.
427	89		2,4-DINITROTOLUENE (Q3#14)				BDL	340.
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	340.
424	149		DIETHYL PHTHALATE (Q3#16) <				BDL	340.
417	204		4-CHLORDPHENYL PHENYL ETHER				BDL	340.
432	166		FLUORENE (Q3#18) <86-73-7>				BDL	340.
480	138		4-NITROANILINE (Q3#19) <100				BDL	1700.
467	188	I	D10-PHENANTHRENE (IS#4)	889	174000.	40.0		
04	198		4,6-DINITRO-2-METHYLPHENOL				BDL	1700.
443	169		N-NITROSODIPHENYLAMINE (Q4#				BDL	340.
414	248		4-BRDMDPHENYL PHENYL ETHER				BDL	340.
433	284		HEXACHLORDBENZENE (Q4#5) <1				BDL	340.
609	266		PENTACHLORDPHENOL (Q4#6) <8				BDL	1700.
444	178		PHENANTHRENE (Q4#7) <85-01-				BDL	340.
			ANTHRACENE (Q4#9) <120-12-7				BDL	340.

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
426	149		DI-N-BUTYL PHTHALATE (Q4#9)				BDL	340.
431	202		FLUORANTHENE (Q4#10) <206-4			1.3	J	340.
459	240	I	D12-CHRYSENE (IS#5)	1140	141000.	40.0		
445	202		PYRENE (Q5#3) <129-00-0>			1.2	J	340.
415	149		BUTYLBENZYL PHTHALATE (Q5#4				BDL	340.
423	252		3,3'-DICHLOROBENZIDINE (Q5#				BDL	670.
405	228		BENZO(A)ANTHRACENE (Q5#6) <				BDL	340.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	340.
418	228		CHRYSENE (Q5#8) <218-01-9>				BDL	340.
497	264	I	D12-PERYLENE (IS#6)	1348	159000.	40.0		
429	149		DI-N-OCTYL PHTHALATE (Q6#2)				BDL	340.
407	252		BENZO(B)FLUORANTHENE (Q6#3)			II ~~1.1~~ 1.3	J	340.
409	252		BENZO(K)FLUORANTHENE (Q6#4)			1.3	~~BDL~~ J	340.
406	252		BENZO(A)PYRENE (Q6#5) <50-3				BDL	340.
437	276		INDENO(1,2,3-C,D)PYRENE (Q6				BDL	340.
419	278		DIBENZO(A,H)ANTHRACENE (Q6#				BDL	340.
408	276		BENZO(G,H,I)PERYLENE (Q6#8)				BDL	340.
619	112	S	2-FLUOROPHENOL (SS#1)			66.7	68.%	
612	99	S	D5-PHENOL (SS#2)			65.5	66.%	
447	82	S	D5-NITROBENZENE (SS#3)			31.1	63.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			30.7	62.%	
28	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			37.2	38.%	
.96	244	S	D14-TERPHENYL (SS#6)			28.2	57.%	
471	212	S	D10-PYRENE			27.4	56.%	
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	34.
CHECKSUMS:								
7876.		2862		5189	992300.	530.4	410.	

SEMI-VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
72	619	2-FLUOROPHENOL (SS#1)	66.7	98.3	68.	26-121	X	
73	612	D5-PHENOL (SS#2)	65.5	98.3	66.	24-113	X	
74	447	D5-NITROBENZENE (SS#3)	31.1	49.2	63.	23-120	X	
75	448	2-FLUOROBIPHENYL (SS#4)	30.7	49.2	62.	30-115	X	
76	628	2,4,6-TRIBROMOPHENOL (SS#5)	37.2	98.3	38.	18-123	X	
77	496	D14-TERPHENYL (SS#6)	28.2	49.2	57.	18-137	X	
78	471	D10-PYRENE	27.4	49.2	56.	33-128*	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ___ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{SPLIT FACTOR (*)}} \times \frac{30.0\text{G}}{\text{AMOUNT EXTRACTED(G)}} \times \text{DRY WEIGHT FACTOR} \times \text{GC/MS DILUTION FACTOR} \times 33.3 =$$

$$\frac{0.9\text{ML}}{0.885} \times \frac{30.0\text{G}}{30.24\text{G}} \times \frac{1.0}{1.0} \times \frac{1.0}{1.77} \times 33.3 = \frac{595}{33,600}$$

* SPLIT FACTOR = (295/300)(9/10) IF PEST/TCDD VOLUMES ARE INDICATED ON LOG
= 1 IF PEST/TCDD VOLUMES ARE NOT INDICATED ON EXTRACTION LOG

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{\text{1000 UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{SPLIT FACTOR}} \times \text{GCMS DILUTION FACTOR} =$$

$$\frac{1000\text{ UL}}{500\text{ UL}} \times \frac{0.9\text{ML}}{0.885\text{ML}} \times \frac{1.0}{1} = 2.030$$

COMPOUND LIST NO. - 177

COMPUCHEM # 84990 DATE
IDENTIFIER PESTICIDES (LOW LEVEL SOLID)

DIL FACT_____DRY WT_____ _30_SPLIT_____FINAL VOL_____/5 = 1.76 / 1.0 (QS)

AMT SAMPLE_____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/kg
1.	0701	ALDRIN		8.0
2.	0702	ALPHA-BHC		8.0
3.	0703	BETA-BHC		8.0
4.	0704	GAMMA-BHC		8.0
5.	0705	DELTA-BHC		8.0
6.	0706	TECHNICAL CHLORDANE		80.0
7.	0707	4,4'-DDT		16.0
8.	0708	4,4'-DDE		16.0
9.	0709	4,4'-DDD		16.0
10.	0710	DIELDRIN		16.0
11.	0711	ENDOSULFAN I		8.0
12.	0712	ENDOSULFAN II		16.0
13.	0713	ENDOSULFAN SULFATE		16.0
14.	0714	ENDRIN	BDL	16.0
15.	0739	ENDRIN KETONE		16.0
16.	0716	HEPTACHLOR		8.0
17.	0717	HEPTACHLOR EPOXIDE		8.0
18.	0726	METHOXYCHLOR		80.0
19.	0724	AROCHLOR 1016		80.0
20.	0720	AROCHLOR 1221		80.0
21.	0721	AROCHLOR 1232		80.0
22.	0718	AROCHLOR 1242		80.0
23.	0722	AROCHLOR 1248		80.0
24.	0719	AROCHLOR 1254		160.0
25.	0723	AROCHLOR 1260		160.0
26.	0725	TOXAPHENE		160.0

ANALYST'S COMMENTS:

GC SCREEN DATA SHEET

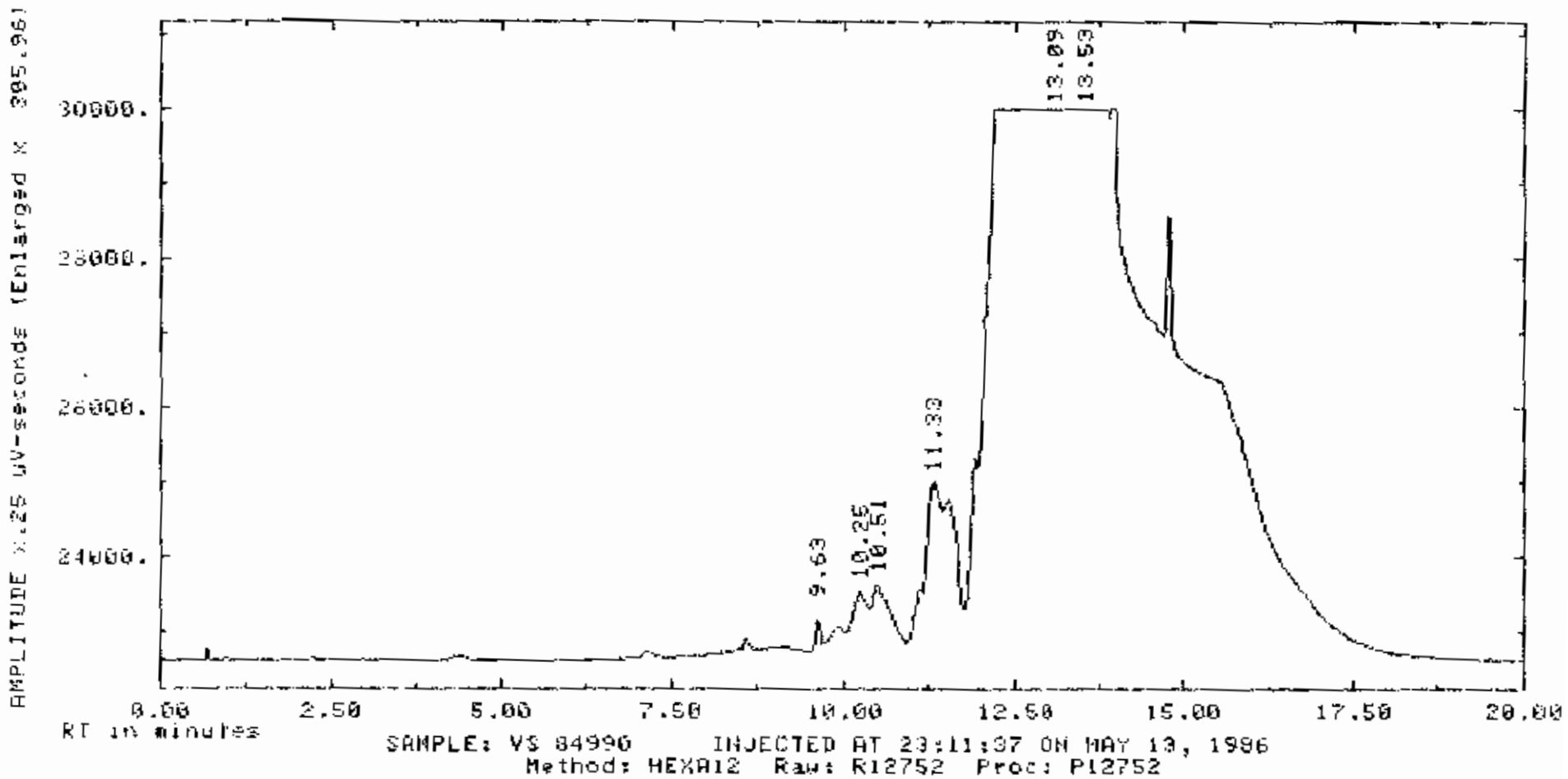
Laboratory Name CompuChem

Case Number URS WEST

Sample ID Number	Fraction	GC Detectable* Medium Level	Date of Screen	Level of GC/MS Analysis**
B-SEGMENT 84990	VOA B/N/A Pesticides Dioxin	ND	5/13/86	L
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			
	VOA B/N/A Pesticides Dioxin			

*Answer Yes or No

**Indicate "M" for Medium Level GC/MS analysis.
Indicate "L" for Low Level GC/MS analysis.


AMPLITUDE x.25 uV-seconds (Enlarged x 395.96)
30000.
28000.
26000.
24000.
9.63
10.25
10.51
11.33
13.09
13.53
0.00
2.50
5.00
7.50
10.00
12.50
15.00
17.50
20.00
RT in minutes
SAMPLE: VS 84996 INJECTED AT 23:11:37 ON MAY 13, 1986
Method: HEXA12 Raw: R12752 Proc: P12752

Report: 101.00 Channel: 12

Sample: VS 54990 Injected at 23:11:37 ON MAY 13, 1986

ZERO Method: HEXA12 Seq: SEQ127 Subsq/Samp: 1/52 Bil: 52

Si-width	MV/Min	Delay	Min-Ar	Bench
.500	3.000	0.05	100	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTw	XRTW	ZDil-f	Isp
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 20.008 minutes

RT	ITH	Factor	Area		AREA %	Name
9.63	0.00	.10000E+01	267.	BB	.005	
10.25	0.00	.10000E+01	1452.	BB	.025	
10.51	0.00	.10000E+01	2758.	BH	.048	
11.33	0.00	.10000E+01	24224.	HH	.420	
13.09	0.00	.10000E+01	0.	HS	0.000	
13.53	0.00	.10000E+01	5745564.	BV	99.503	

Total Area = 5774265. Total AREA % = 5745564.000

Processed data file: P12752 Raw data file: R12752

PLIST7

SCREEN WORKSHEET

Compound # 84990

Sample Prep Code-153_

Instrument Code__122__

ANALYSIS INFORMATION

Date	Inst	File Name	Dilution Fact.
5/15	6	P6379	1
___	___	_____	___

COMMENT: 2

Analyst 865 Date 5/16/86

RESULTS

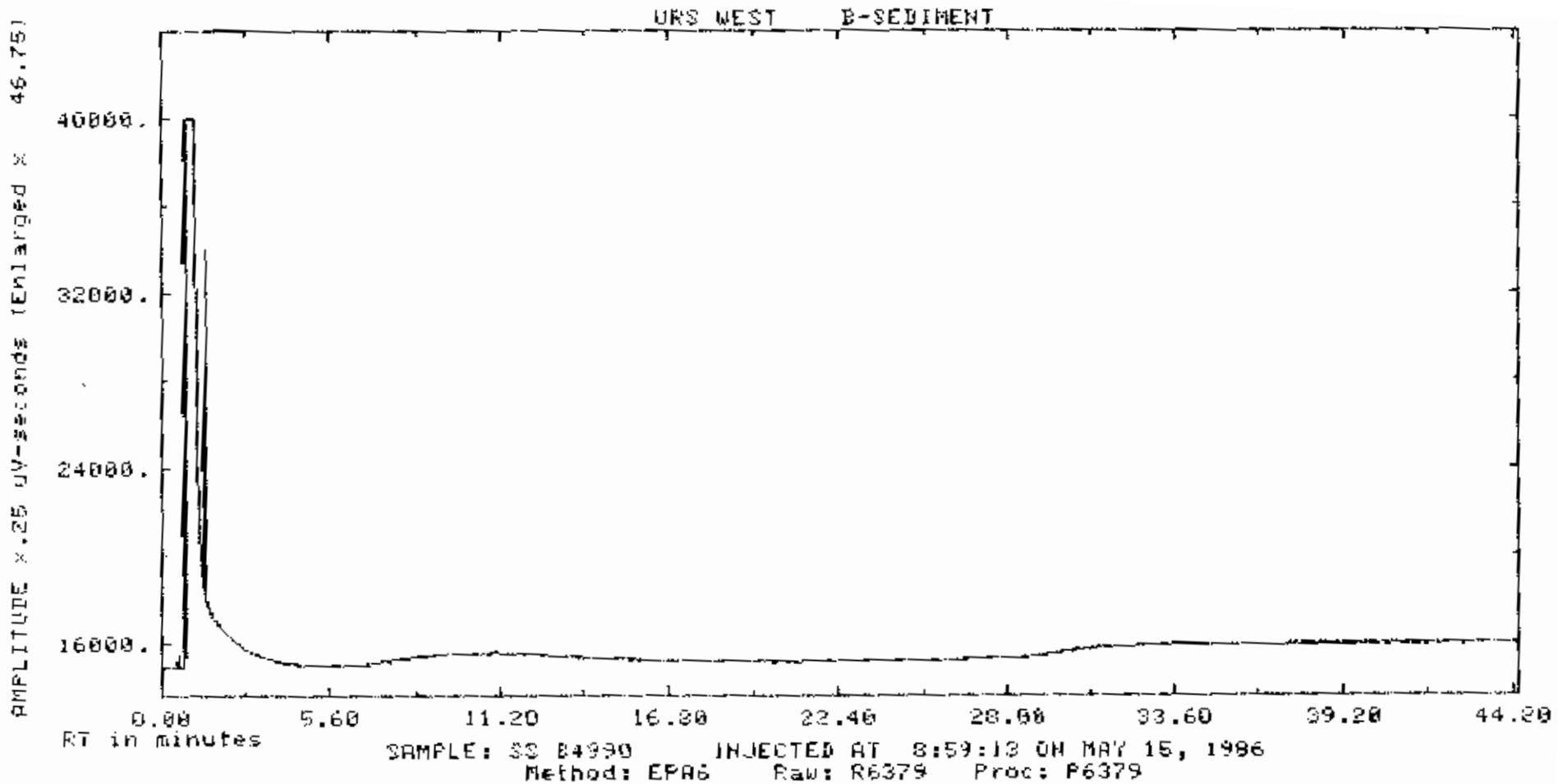
Area of 50ng Phenanthrene 60593

Area of Largest peak in sample 0

Phenanthrene / Largest Peak = ∞

[X] Ratio > 5.0 Analyze low level extract
Suggested dilution for GC/MS analysis 1:___ (up to 1:5)

[ ] Ratio < 5.0 Prepare medium level extract
Schedule Analysis code 380 and 384
Suggested dilution for GC/MS analysis 1:___


URS WEST B-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 46.75)
40000.
32000.
24000.
16000.
0.00
5.60
11.20
16.80
22.40
28.00
33.60
39.20
44.20
RT in minutes
SAMPLE: SS 84990 INJECTED AT 8:59:13 ON MAY 15, 1986
Method: EPA6 Raw: R6379 Proc: P6379

Report: 89.00 Channel: 6 URS WEST B-SEDIMENT

Sample: SS 84990 Injected at 8:59:13 ON MAY 15, 1986

ZERO Method: EPA6 Seq: SEQ63 Subsq/Samp: 1/79 Btl: 79

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.250	.300	3.00	1000	

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.50	5.0	100.00	NO

Actual run time: 45.017 minutes

No peaks integrated

RT	ITM	Factor	Area	AREA %	Name

Total Area = 0. Total AREA % = 0.000

Processed data file: P6379 Raw data file: R6379

III. SAMPLE DATA PACKAGE

2A

CASE NO. URS ~~WEST~~ May 1986

SAMPLE NO. A-SEDIMENT = COMPUCHEM NO. 84986
Site No. 2A

A. Sample data in increasing SMD Number order:

1. Copy of Sample Traffic Raport
2. HSL Results — Organic Analysis Data Sheet (Form I)
3. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.
4. Raw Data — in order: VOA, BNA, Pesticide

1. Copy of Sample Traffic Report

2. HSL Results — Organic Analysis Data Sheets (Form I)

Sample Number
4-SEDIMENT

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: 8405495-019
Sample matrix: solid
Data Release
Authorized By: ____ GD ____

Case: [illegible]
QC Report No: ______________
Contract No: FL571K1n
Date Sample
Received: 05-12-86

Volatile Compounds

Concentration: low
Date extracted/prepared: 05-15-86
Date analyzed: 05-15-86
Conc/Dil Factor: 2.14 pH: 6.9
Percent moisture (not decanted): 54%

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	21.	U	10061-02-6	trans-1,3-Dichloropropene	11.	U
74-83-9	Bromomethane	21.	U	79-01-6	Trichloroethene	11.	U
75-01-4	Vinyl Chloride	21.	U	124-48-1	Dibromochloromethane	11.	U
75-00-3	Chloroethane	21.	U	79-00-5	1,1,2-Trichloroethane	11.	U
* 75-09-2	Methylene Chloride	25.		71-43-2	Benzene	11.	U
* 67-64-1	Acetone	86.	B	10061-01-5	cis-1,3-Dichloropropene	11.	U
75-15-0	Carbon Disulfide	11.	U	110-75-8	2-Chloroethyl Vinyl Ether	21.	U
75-35-4	1,1-Dichloroethene	11.	U	75-25-2	Bromoform	11.	U
75-34-3	1,1-Dichloroethane	11.	U	108-10-1	4-Methyl-2-pentanone	21.	U
156-60-5	trans-1,2-Dichloroethene	11.	U	591-78-6	2-Hexanone	21.	U
67-66-3	Chloroform	11.	U	127-18-4	Tetrachloroethene	11.	U
107-06-2	1,2-Dichloroethane	11.	U	79-34-5	1,1,2,2-Tetrachloroethane	11.	U
78-93-3	2-Butanone	21.	U	108-88-3	Toluene	11.	U
71-55-6	1,1,1-Trichloroethane	11.	U	108-90-7	Chlorobenzene	11.	U
56-23-5	Carbon Tetrachloride	11.	U	100-41-4	Ethyl Benzene	11.	U
108-05-4	Vinyl Acetate	21.	U	100-42-5	Styrene	11.	U
75-27-4	Bromodichloromethane	11.	U		Total Xylenes	11.	U
78-87-5	1,2-Dichloropropane	11.	U				

DATA REPORTING QUALIFIERS

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

Value If the result is a value greater than or equal to the detection limit then report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10ug and a concentration of 3ug is calculated, then report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: CompuChem
Case [illegible] EPS [illegible]

Sample Number
A-SEDIMENT

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: low
Date extracted/prepared: 05-13-86
Date analyzed: 05-16-86
Conc/Dil Factor: [illegible]1.40
Percent moisture (decanted): 54%

GPC Cleanup: No
Separatory Funnel Extraction: Yes
Continuous Liquid - Liquid Extraction: No

CAS Number		ug/kg		CAS Number		ug/kg	
108-95-2	Phenol	710	U	83-32-9	Acenaphthene	710	U
111-44-4	bis(2-Chloroethyl) ether	710	U	51-28-5	2,4-Dinitrophenol	3600	U
95-57-8	2-Chlorophenol	710	U	100-02-7	4-Nitrophenol	3600	U
541-73-1	1,3-Dichlorobenzene	710	U	132-64-9	Dibenzofuran	710	U
106-46-7	1,4-Dichlorobenzene	710	U	121-14-2	2,4-Dinitrotoluene	710	U
100-51-6	Benzyl Alcohol	710	U	606-20-2	2,6-Dinitrotoluene	710	U
95-50-1	1,2-Dichlorobenzene	710	U	84-66-2	Diethylphthalate	710	U
95-48-7	2-Methylphenol	710	U	7005-72-3	4-Chlorophenyl Phenyl ether	710	U
39638-32-9	bis(2-Chloroisopropyl) ether	710	U	86-73-7	Fluorene	710	U
106-44-5	4-Methylphenol	710	U	100-01-6	4-Nitroaniline	3600	U
621-64-7	N-Nitroso-Di-n-propylamine	710	U	534-52-1	4,6-Dinitro-2-methylphenol	3600	U
67-72-1	Hexachloroethane	710	U	86-30-6	N-nitrosodiphenylamine (1)	710	U
98-95-3	Nitrobenzene	710	U	101-55-3	4-Bromophenyl Phenyl ether	710	U
78-59-1	Isophorone	710	U	118-74-1	Hexachlorobenzene	710	U
88-75-5	2-Nitrophenol	710	U	87-86-5	Pentachlorophenol	3600	U
105-67-9	2,4-Dimethylphenol	710	U	85-01-8	Phenanthrene	710	U
65-85-0	Benzoic Acid	3600	U	120-12-7	Anthracene	710	U
111-91-1	bis(2-Chloroethoxy) methane	710	U	84-74-2	Di-n-butylphthalate	710	U
120-83-2	2,4-Dichlorophenol	710	U	206-44-0	Fluoranthene	710	U
120-82-1	1,2,4-Trichlorobenzene	710	U	129-00-0	Pyrene	~~[illegible]~~	~~U~~ [illegible]
91-20-3	Naphthalene	710	U	85-68-7	Butyl Benzyl Phthalate	710	U
106-47-8	4-Chloroaniline	710	U	91-94-1	3,3'-Dichlorobenzidine	1400	U
87-68-3	Hexachlorobutadiene	710	U	56-55-3	Benzo(a)anthracene	710	U
59-50-7	4-Chloro-3-methylphenol	710	U	117-81-7	bis(2-ethylhexyl)phthalate	710	U
91-57-6	2-Methylnaphthalene	710	U	218-01-9	Chrysene	710	U
77-47-4	Hexachlorocyclopentadiene	710	U	117-84-0	Di-n-octyl Phthalate	710	U
88-06-2	2,4,6-Trichlorophenol	710	U	205-99-2	Benzo(b)fluoranthene	710	U
95-95-4	2,4,5-Trichlorophenol	3600	U	207-08-9	Benzo(k)fluoranthene	710	U
91-58-7	2-Chloronaphthalene	710	U	50-32-8	Benzo(a)pyrene	710	U
88-74-4	2-Nitroaniline	3600	U	193-39-5	Indeno(1,2,3-cd)pyrene	710	U
131-11-3	Dimethyl Phthalate	710	U	53-70-3	Dibenz(a,h)anthracene	710	U
208-96-8	Acenaphthylene	710	U	191-24-2	Benzo(g,h,i)perylene	710	U
99-09-2	3-Nitroaniline	3600	U				

(1) Cannot be separated from diphenylamine

| Sample Number |
| A-SEDIMEN |

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: [Low] Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Data Analyzed: 05/16/86
Conc/Dil Factor: 2.11

CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha - BHC	17.	U
319-85-7	Beta - BHC	17.	U
319-86-8	Delta - BHC	17.	U
58-89-9	Gamma - BHC(Lindane)	17.	U
76-44-8	Heptachlor	17.	U
309-00-2	Aldrin	17.	U
1024-57-3	Heptachlor Epoxide	17.	U
959-98-8	Endosulfan I	17.	U
60-57-1	Dieldrin	34.	U
72-55-9	4-4' - DDE	34.	U
72-20-8	Endrin	34.	U
33213-65-9	Endosulfan II	34.	U
72-54-8	4-4' - DDD	34.	U
1031-07-8	Endosulfan Sulfate	34.	U
50-29-3	4-4' - DDT	34.	U
72-43-5	Methoxychlor	170	U
53494-70-5	Endrin Ketone	34.	U
57-74-9	Chlordane	170	U
8001-35-2	Toxaphene	340	U
12674-11-2	Aroclor - 1016	170	U
11104-28-2	Aroclor - 1221	170	U
11141-16-5	Aroclor - 1232	170	U
53469-21-9	Aroclor - 1242	170	U
12672-29-6	Aroclor - 1248	170	U
11097-69-1	Aroclor - 1254	340	U
11096-82-5	Aroclor - 1260	340	U

V(i) = Volume of extract injected (ul)
V(s) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(s) _____ or W(s) 30.89 V(t) 2000.00 V(i) 5.0

Sample Number
A-SEDIMEN

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: [Low] Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Data Analyzed: 05/21/86
Conc/Dil Factor: 2.11

CAS Number		ug/l or [ug/Kg] (Circle One)	
319-84-6	Alpha - BHC	17.	U
319-85-7	Beta - BHC	17.	U
319-86-8	Delta - BHC	17.	U
58-89-9	Gamma - BHC(Lindane)	17.	U
76-44-8	Heptachlor	17.	U
309-00-2	Aldrin	17.	U
1024-57-3	Heptachlor Epoxide	17.	U
959-98-8	Endosulfan I	17.	U
60-57-1	Dieldrin	34.	U
72-55-9	4-4' - DDE	34.	U
72-20-8	Endrin	34.	U
33213-65-9	Endosulfan II	34.	U
72-54-8	4-4' - DDD	34.	U
1031-07-8	Endosulfan Sulfate	34.	U
50-29-3	4-4' - DDT	34.	U
72-43-5	Methoxychlor	170	U
53494-70-5	Endrin Ketone	34.	U
57-74-9	Chlordane	170	U
8001-35-2	Toxaphene	340	U
12674-11-2	Aroclor - 1016	170	U
11104-28-2	Aroclor - 1221	170	U
11141-16-5	Aroclor - 1232	170	U
53469-21-9	Aroclor - 1242	170	U
12672-29-6	Aroclor - 1248	170	U
11097-69-1	Aroclor - 1254	340	U
11096-82-5	Aroclor - 1260	340	U

V(i) = Volume of extract injected (ul)
V(s) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(s) _____ or W(s) 30.89 V(t) 2000.00 V(i) 1.0

3. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found, if so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found ")

Laboratory Name CompuChem Laboratories

Case No URS WEST

Sample Number A-SEDIMENT

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOLATILE COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30					

SAMPLE NUMBER A-SEDIMENT

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

COMPUCHEM FILE GH004986B15

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	3443-82-1	UNKNOWN 9,12-OCTADECADIENOIC ACID (Z,Z)-, 2-HYDROXY-1-(HYDRO	SEMI2	988	350 ~~160.~~	J
2	74764-11-7	HYDROCARBON IRDH, TRICARBONYLIN-(PHENYL-2-PYRIDINYLMETHYLENE)BEN	SEMI2	1007	390 ~~180.~~	J
3	629-97-0	" DOCOSANE	SEMI2	1076	630 ~~290.~~	J
4	630-06-8	" HEXATRIACONTANE	SEMI2	1142	630 290.	J
5	36653-02-4	" 1-HEXADECANOL	SEMI2	1149	1520 ~~700.~~	J
6	629-97-0	" DOCOSANE	SEMI2	1224	800 ~~370.~~	J
7	112-88-9	" 1-OCTADECENE	SEMI2	1233	1650 ~~750.~~	J
8	613-59-2	UNKNOWN NAPHTHALENE, 2-(PHENYLMETHYL)-	SEMI2	1241	950 ~~440.~~	J
9	36237-66-8	HYDROCARBON 6,10,14-HEXADECATRIEN-1-OL, 3,7,11,15-TETRAMETHYL-,	SEMI2	1301	330 ~~120.~~	J
10	629-97-0	" DOCOSANE	SEMI2	1336	1120 ~~520.~~	J
11	56554-96-2	" 2-OCTADECENAL	SEMI2	1351	1610 ~~740.~~	J
12	7098-22-8	" TETRATETRACONTANE	SEMI2	1496	820 ~~380.~~	J
13	58-95-7	UNKNOWN 2H-1-BENZOPYRAN-6-OL, 3,4-DIHYDRO-2,5,7,8-TETRAMETHY	SEMI2	1566	590 ~~270.~~	J

~~32.900~~ 40.00

~~40.00~~

7.393

SPECTROSCOPIST _____

DATE 5-10

SAMPLE NUMBER A-SEDIMENT

COMPUCHEM FILE GH084986B15

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
14	18525-35-4	UNKNOWN ~~STIGMAST-7-EN-3-OL, (3.BETA.,5.ALPHA.,24S)-~~	SEMI2	1845	1340 ~~640.~~	J
15	83-46-5	UNKNOWN ~~STIGMAST-5-EN-3-OL, (3.BETA.)-~~	SEMI2	1852	670 ~~310.~~	J
16	69833-98-3	UNKNOWN ~~ESTRA-1,3,5(10)-TRIENE-6,17-DIONE, 3-[(TRIMETHYLSILY~~	SEMI2	1869	1370 ~~630.~~	J

~~32.900~~ 46 40.00

~~88.3?~~

71.393

SPECTROSCOPIST Kh

DATE 5-10

FORM1, ?T B

4. Raw Data — In order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatograms(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)
- Calibration plots (area vs. Concentration) for 4,4'-DDT, 4,4'-DDD, 4,4'-DDE, or taxaphene (where appropriate)

c Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

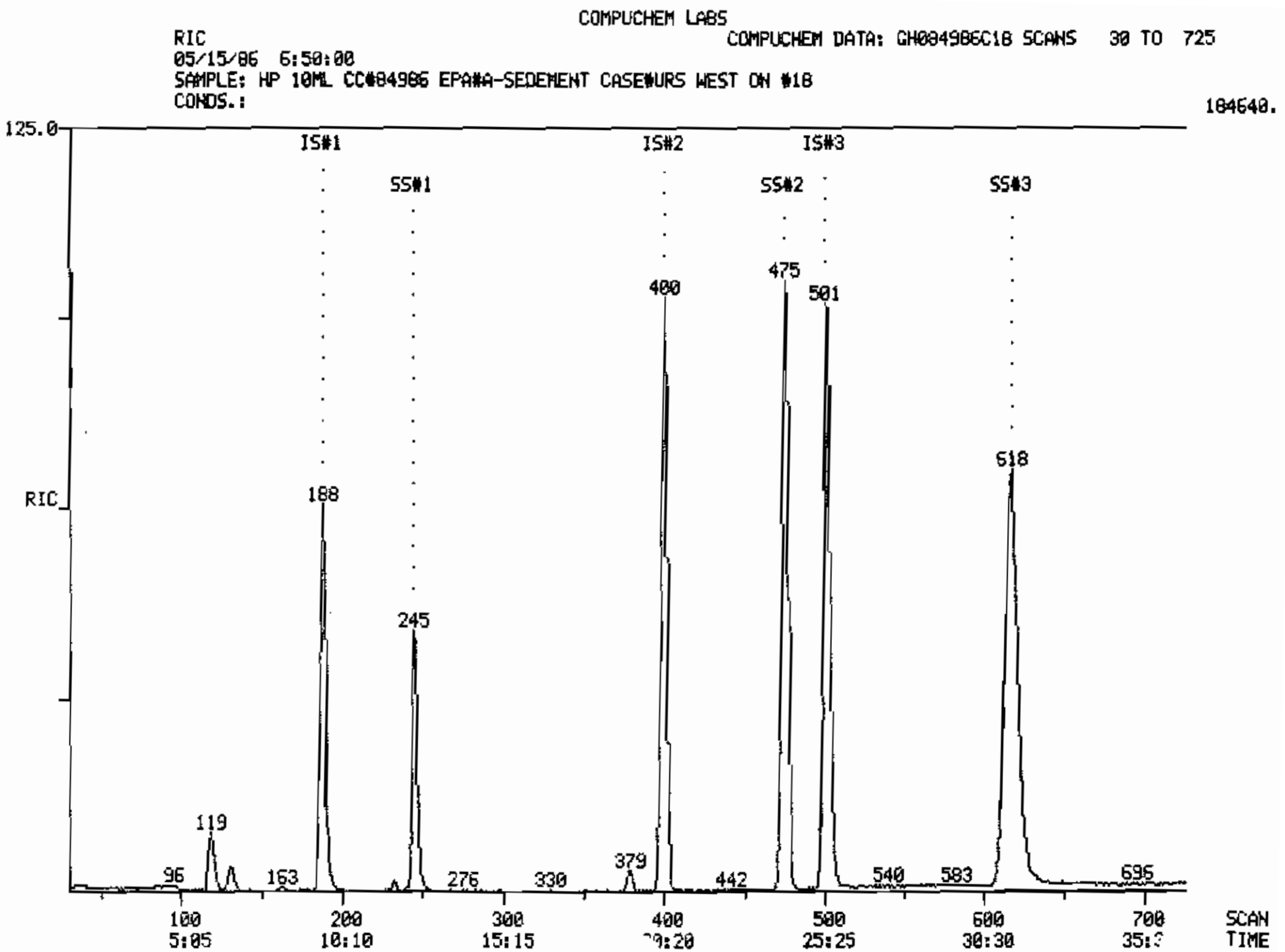
d GC/MS library search spectra for Tentatively Identified Compounds (TIC)

e Quantitation/Calculation of tentative ID concentration(s)

f Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GH084986C18 SCANS 30 TO 725
05/15/86 6:50:00
SAMPLE: HP 10ML CC#84986 EPA#A-SEDEMENT CASE#URS WEST ON #18
CONDS.:
184640.
125.0
RIC
IS#1
SS#1
IS#2
IS#3
SS#2
SS#3
188
245
400
475
501
618
96
119
163
276
330
379
442
540
583
695
100
5:05
200
10:10
300
15:15
400
20:20
500
25:25
600
30:30
700
35:?
SCAN
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: E238 FILENAME: GH084986C18 DATE: 05/15/86
SHIFT STD: G6860515C18 TIME: 6:50

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1	60505.	68161.	-11.	PASS
*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E6#1	233890.	277912.	-16.	PASS
*270 D5-CHLOROBENZENE (IS)	216036.	265284.	-19.	PASS

QUANTITATION REPORT FILE: GH0B4986C18

DATA: GH0B4986C18.TI
05/15/86 6:50:00
SAMPLE: HP 10ML CC#B4986 EPA#A-SEDEMENT CASE#URS WEST ON #18
CONDS.:
SUBMITTED BY: 18 ANALYST: B91

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1
2	221 CHLOROMETHANE <75-01-4> E5#2
3	220 BROMOMETHANE <78-83-9> E5#3
4	231 VINYL CHLORIDE <75-01-4> E5#4
5	209 CHLOROETHANE <75-00-3> E5#5
6	222 METHYLENE CHLORIDE <75-09-2> E5#6
7	252 ACETONE (2-PROPANONE) <67-64-1> E5#7
8	254 CARBON DISULFIDE <75-15-0> E5#8
9	216 1,1-DICHLOROETHYLENE <75-35-4> E5#9
10	214 1,1-DICHLOROETHANE <75-34-3> E5#10
11	226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E5#11
12	211 CHLOROFORM <67-66-3> E5#12
13	215 1,2-DICHLOROETHANE <107-06-2> E5#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E6#1
15	253 2-BUTANONE <78-93-3> E6#2
16	227 1,1,1-TRICHLOROETHANE <71-55-6> E6#3
17	206 CARBON TETRACHLORIDE <56-23-5>
18	257 VINYL ACETATE <108-05-4> E6#5
19	212 BROMODICHLOROMETHANE <75-27-4> E6#6
20	217 1,2-DICHLOROPROPANE <78-87-5> E6#7
21	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E6#8
22	229 TRICHLOROETHYLENE <79-01-6> E6#9
23	208 CHLORODIBROMOMETHANE <124-48-1> E6#10
24	228 1,1,2-TRICHLOROETHANE <79-00-5> E6#11
25	203 BENZENE <71-43-2> E6#12
26	218 CIS-1,3-DICHLOROPROPENE <10061-01-5> E6#13
27	210 2-CHLOROETHYL VINYL ETHER <110-75-8> E6#14
28	205 BROMOFORM <75-25-2> E6#15
29	*270 D5-CHLOROBENZENE (IS)
30	256 4-METHYL-2-PENTANONE <108-10-1> E7#2
31	255 2-HEXANONE <591-78-6> E7#3
32	224 TETRACHLOROETHENE <127-18-4> E7#4
33	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E7#5
34	225 TOLUENE <108-88-3> E7#6
35	207 CHLOROBENZENE <108-90-7> E7#7
36	219 ETHYLBENZENE <100-41-4> E7#8
37	251 STYRENE <100-42-5> E7#9
38	240 M-XYLENE E7#10
39	271 O,P-XYLENE E7#11
40	#258 D4-1,2-DICHLOROETHANE E8#2
41	#247 BROMOFLUOROBENZENE <460-00-4> E8#3
42	#233 D8-TOLUENE E8#4

ID	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	188	9:33	1	1.000	A BB	60505.	50.000 UG/KG	14.45
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	119	6:03	1	0.633	A BB	12819.	11.512	UG/KG	3.33
7	43	131	6:40	1	0.697	A BB	18041.	41.324	UG/KG	11.94
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	232	11:48	1	1.234	A BB	3853.	1.398	UG/KG	0.40
13	62	NOT FOUND								
14	114	400	20:20	14	1.000	A BB	233890.	50.000	UG/KG	14.45
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	NOT FOUND								
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	501	25:28	29	1.000	A BV	216036.	50.000	UG/KG	14.45
30	43	NOT FOUND								
31	43	NOT FOUND								
32	164	NOT FOUND								
33	83	NOT FOUND								
34	92	NOT FOUND								
35	112	NOT FOUND								
36	106	NOT FOUND								
37	104	NOT FOUND								
38	106	NOT FOUND								
39	106	NOT FOUND								
40	65	245	12:27	1	1.303	A BB	88792.	47.776	UG/KG	13.81
41	95	618	31:25	29	1.234	A BB	170165.	47.671	UG/KG	13.78
42	98	475	24:09	1	2.527	A BB	214002.	46.386	UG/KG	13.40

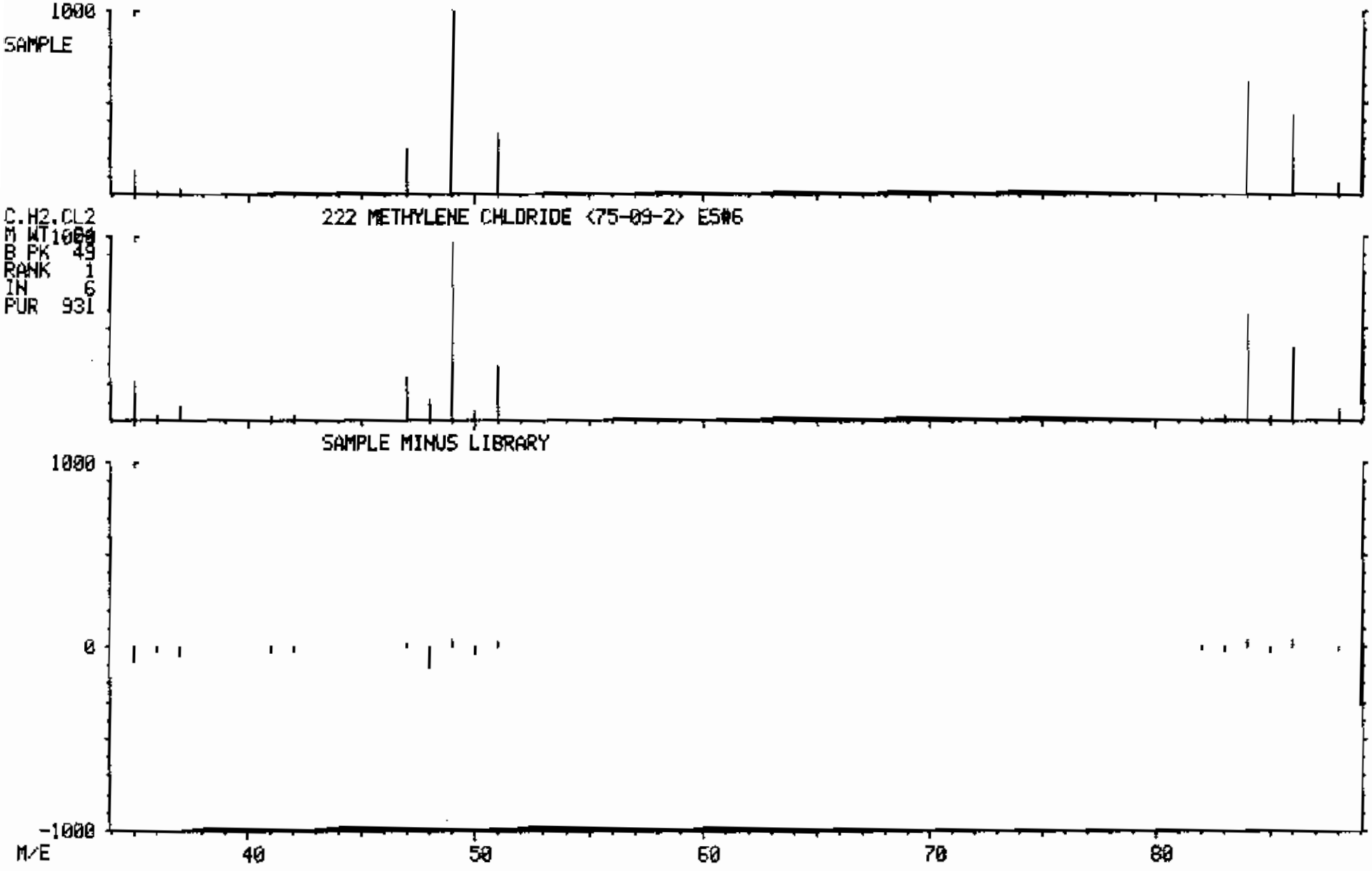
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:43	0.98	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:41		10.000			50.00		0.925	
3	2:36		10.000			50.00		1.296	
4	3:15		10.000			50.00		0.885	
5	4:10		10.000			50.00		0.489	
6	6:15	0.97	5.000	0.13	11.51	50.00	0.212	0.920	0.23
7	6:55	0.96	10.000	0.07	41.32	50.00	0.298	0.361	0.83
8	7:56		5.000			50.00		1.773	
9	9:12		5.000			50.00		0.973	
10	10:34		5.000			50.00		1.597	
11	11:17		5.000			50.00		1.088	
12	11:54	0.99	5.000	0.25	1.40	50.00	0.064	2.278	0.03
13	12:39		5.000			50.00		1.678	
14	20:20	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
15	12:33		10.000			50.00		0.029	
16	13:59		5.000			50.00		0.504	
17	14:23		5.000			50.00		0.671	
18	14:32		10.000			50.00		0.289	
19	14:57		5.000			50.00		0.577	
20	16:19		5.000			50.00		0.282	
21	16:37		5.000			50.00		0.441	
22	17:11		5.000			50.00		0.477	
23	17:47		5.000			50.00		0.684	
24	17:54		5.000			50.00		0.331	
25	17:41		5.000			50.00		0.696	
26	17:57		5.000			50.00		0.331	
27	19:01		10.000			50.00		0.211	
28	20:35		5.000			50.00		0.551	
29	25:31	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:06		10.000			50.00		0.444	
31	22:40		10.000			50.00		0.328	
32	23:02		5.000			50.00		0.492	
33	22:56		5.000			50.00		0.623	
34	24:21		5.000			50.00		0.563	
35	25:37		5.000			50.00		0.904	
36	28:07		5.000			50.00		0.447	
37	33:21		5.000			50.00		0.753	
38	33:48		5.000			50.00		0.485	
39	35:11		5.000			100.00		0.450	
40	12:33	0.99	10.000	0.13	47.78	50.00	1.468	1.536	0.96
41	31:25	1.00	10.000	0.12	47.67	50.00	0.788	0.826	0.95
42	24:12	1.00	10.000	0.25	46.39	50.00	3.537	3.812	0.93

COMPUCHEM LABS

LIBRARY SEARCH
05/15/86 6:50:00 + 6:03
SAMPLE: HP 10ML CC#84986 EPA#A-SEDEMENT CASE#URS WEST ON #18
ENHANCED (S 15B 2N 0T)

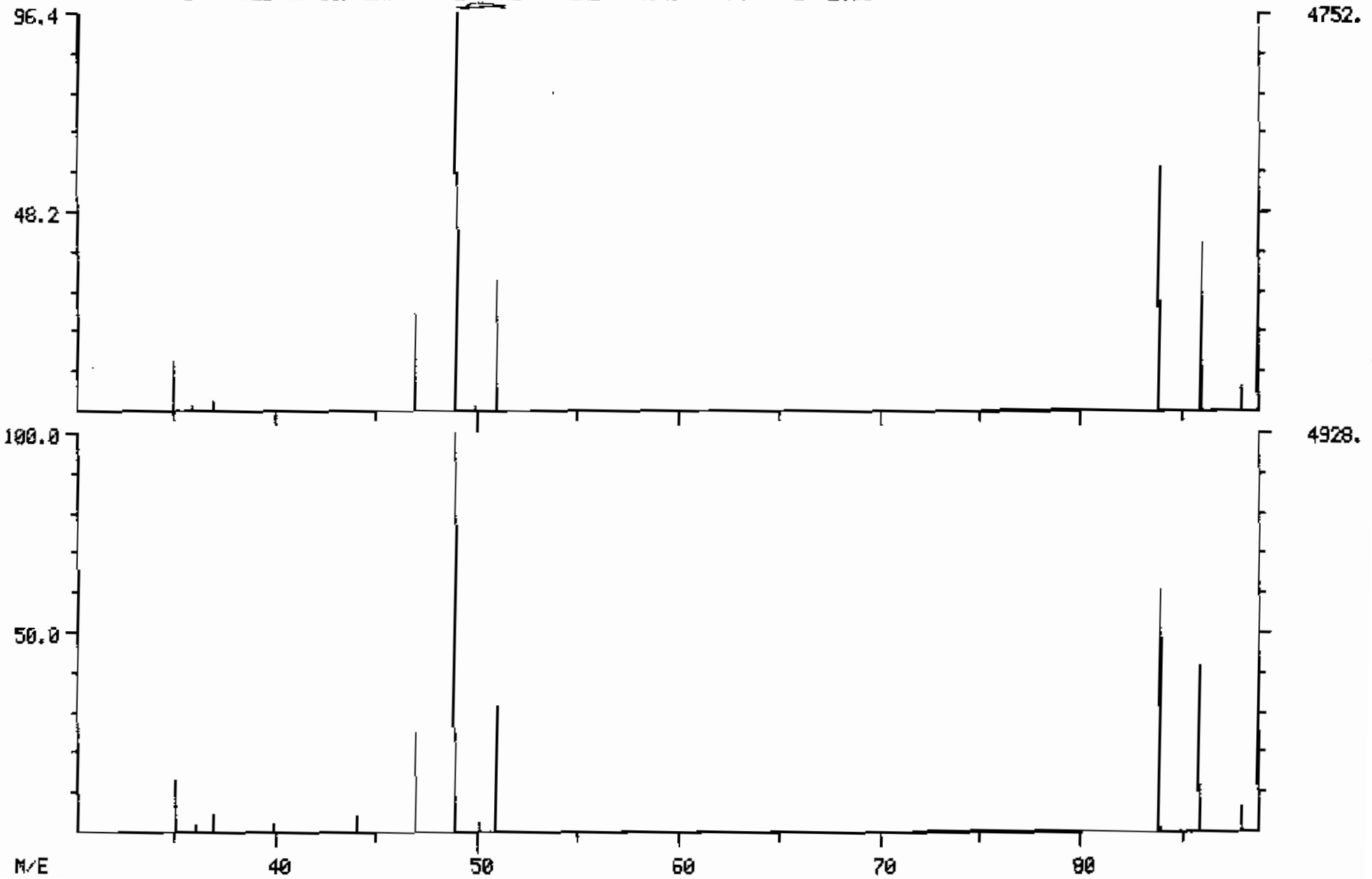
DATA: GH084986C18 # 119
BASE M/E: 49
RIC: 13455.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/15/86 6:50:00 + 6:03
SAMPLE: HP 10ML CC#84986 EPA#A-SEDEMENT CASE#URS WEST ON #18
ENHANCED (S 15B 2N) 222 METHYLENE CHLORIDE <75-09-2> E5#6

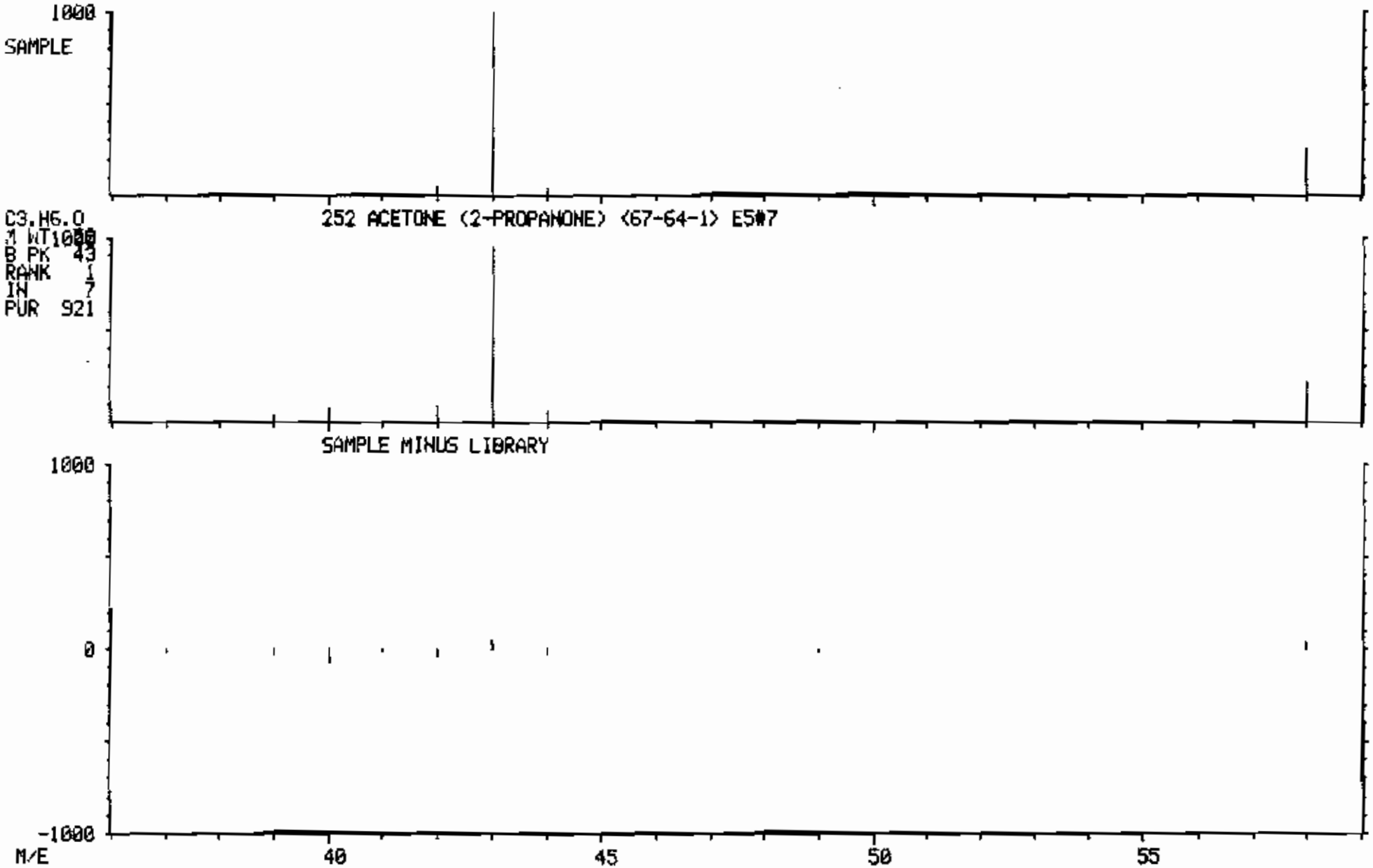
DATA: GH084986C18 #119 BASE M/E: 49/ 49
RIC: 13455./ 14415.



COMPUCHEM LABS

LIBRARY SEARCH
05/15/86 6:50:00 + 6:40
SAMPLE: NP 10ML CC#84986 EPA#A-SEDEMENT CASE#URS WEST ON #18
ENHANCED (S 15B 2N 0T)

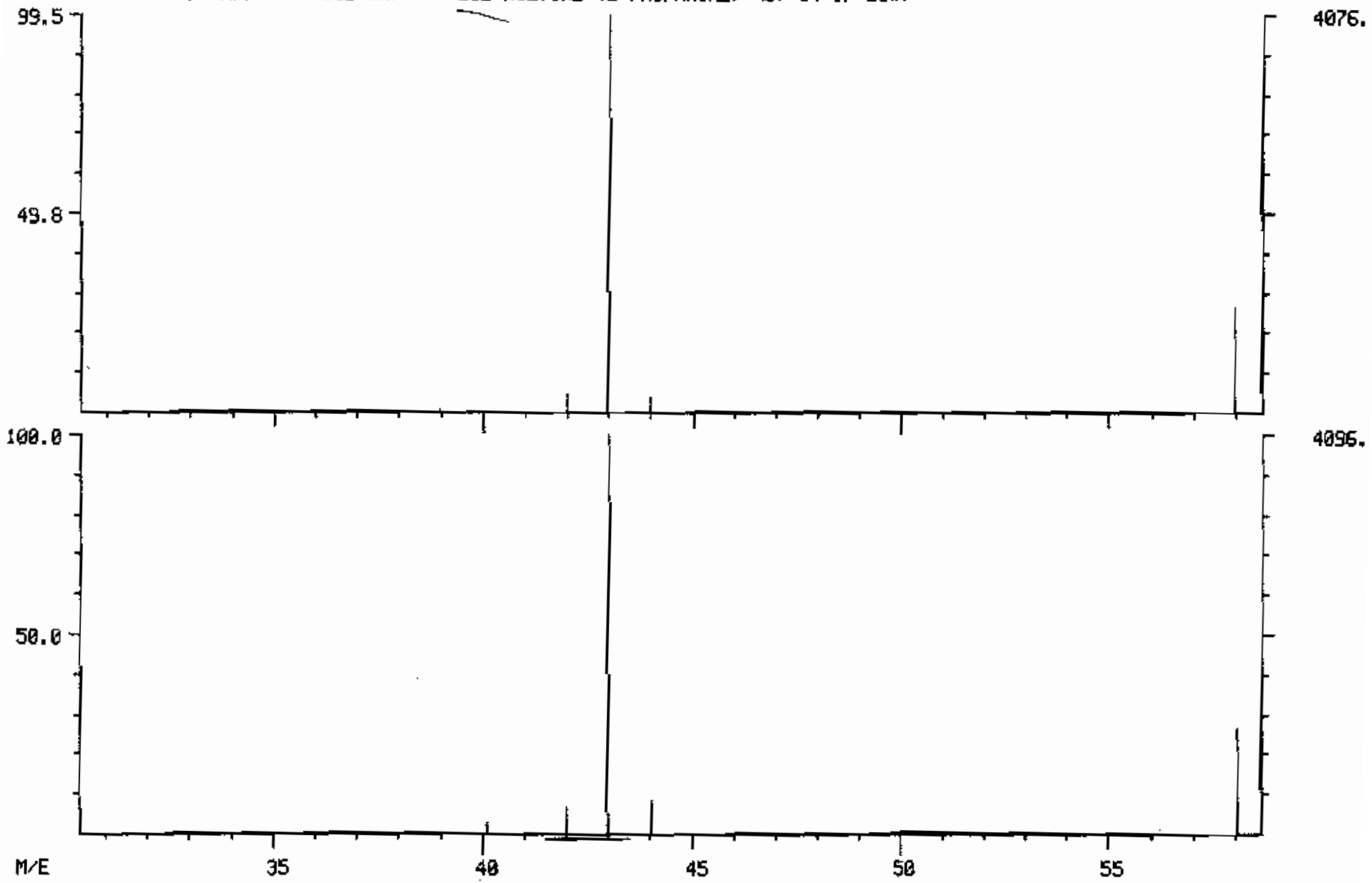
DATA: GH084986C18 # 131
BASE M/E: 43
RIC: 5527.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/15/86 6:50:00 + 6:40
SAMPLE: HP 10ML CC#84986 EPA#A-SEDEMENT CASE#URS WEST GN #10
ENHANCED (S 15B 2N) 252 ACETONE (2-PROPANONE) <67-64-1> E5#7

DATA: GH084986C10 #131 BASE M/E: 43/ 43
RIC: 5519./ 5943.



COMPUCHEM LABS

RIC

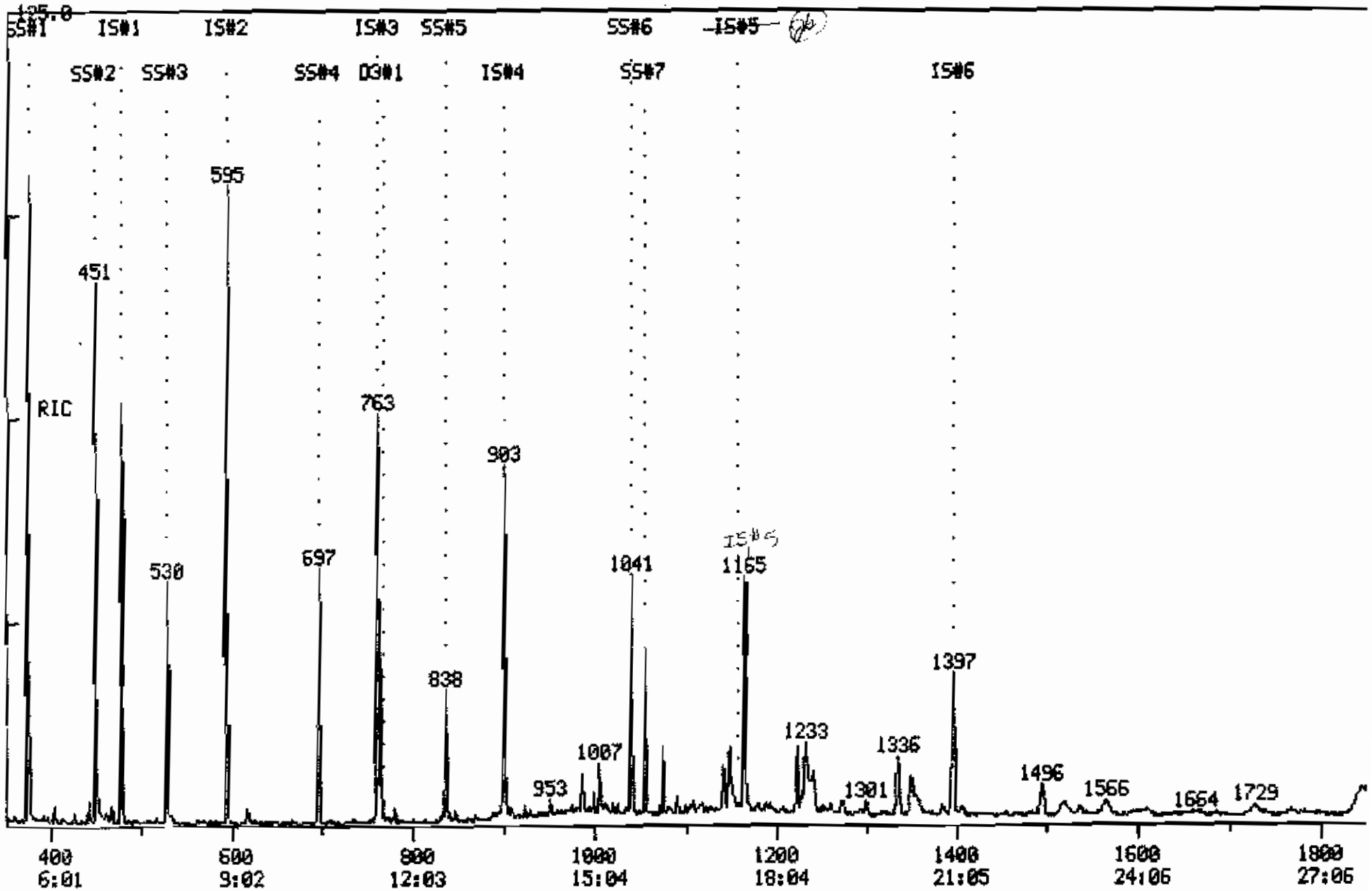
COMPUCHEM DATA: GH084986B15 SCANS 351 TO 1051

05/16/86 16:05:00

OUT OF 351 TO 1900

SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT

CONDS.:



COMPUCHEM LABS

RIC COMPUCHEM DATA: GH084986B15 SCANS 1851 TO 1900
05/16/86 16:05:08 OUT OF 351 TO 1900
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:

704000.

SCAN
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: BEM12 FILENAME: QH084986B15 DATE: 05/16/86
SHIFT STD: HQB60516C15 TIME: 16:05

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	94008.	80292.	17.	PASS
*460 D8-NAPHTHALENE (IS#2)	358632.	309736.	16.	PASS
*495 D10-ACENAPHTHENE (IS#3)	148820.	134164.	11.	PASS
*467 D10-PHENANTHRENE (IS#4)	211960.	198608.	7.	PASS
*459 D12-CHRYSENE (IS#5)	151755 -9561.	152287.	~~68.~~ 0	FAIL
*497 D12-PERYLENE (IS#6)	153516.	130801.	17.	PASS

```
QUANTITATION REPORT     FILE: GH084986B15

DATA: GH084986B15.TI
05/16/86 16:05:00
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:
SUBMITTED BY: 15              ANALYST: 803

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

 NO  NAME
  1  #494 D4-1,4-DICHLOROBENZENE (IS#1)
  2  61D PHENOL (G1#3) <108-95-2>
  3  411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
  4  601 2-CHLOROPHENOL (G1#6) <95-57-8>
  5  421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
  6  422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
  7  474 BENZYL ALCOHOL (G1#9) <100-51-6>
  8  420 1,2-DICHLOROBENZENE (G1#1D) <95-50-1>
  9  620 2-METHYLPHENOL (G1#11) <95-48-7>
 10  412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
 11  622 4-METHYLPHENOL (G1#13) <106-44-5>
 12  442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
 13  436 HEXACHLOROETHANE (G1#15) <67-72-1>
 14  440 NITROBENZENE (G1#16) <98-95-3>
 15  #460 D8-NAPHTHALENE (IS#2)
 16  438 ISOPHORONE (G2#2) <78-59-1>
 17  606 2-NITROPHENOL (G2#3) <88-75-5>
 18  603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
 19  625 BENZOIC ACID (G2#5) <65-85-0>
 20  410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
 21  602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
 22  446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
 23  439 NAPHTHALENE (G2#9) <91-20-3>
 24  475 4-CHLOROANILINE (G2#10) <106-47-8>
 25  434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
 26  608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
 27  477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
 28  #495 D10-ACENAPHTHENE (IS#3)
 29  435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
 30  611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
 31  626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
 32  416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
 33  478 2-NITROANILINE (G3#6) <88-74-4>
 34  425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
 35  402 ACENAPHTHYLENE (G3#8) <208-96-8>
 36  479 3-NITROANILINE (G3#9) <99-09-2>
 37  401 ACENAPHTHENE (G3#10) <83-32-9>
 38  @605 2,4-DINITROPHENOL (G3#11) <51-28-5>
 39  607 4-NITROPHENOL (G3#12) <100-02-7>
 40  476 DIBENZOFURAN (G3#13) <132-64-9>
 41  427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
 42  428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
 43  424 DIETHYL PHTHALATE (G3#16) <84-66-2>
 44  417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
 45  432 FLUORENE (G3#18) <86-73-7>
 46  480 4-NITROANILINE (G3#19) <100-01-6>
```

NO	NAME
47	*467 D10-PHENANTHRENE (IS#4)
48	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
49	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
50	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <1D1-55-3>
51	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
52	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
53	444 PHENANTHRENE (Q4#7) <85-01-8>
54	403 ANTHRACENE (Q4#8) <120-12-7>
55	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
56	431 FLUORANTHENE (Q4#10) <206-44-0>
57	*459 D12-CHRYSENE (IS#5)
58	445 PYRENE (Q5#3) <129-00-0>
59	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
60	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
61	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
62	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
63	418 CHRYSENE (Q5#8) <218-01-9>
64	*497 D12-PERYLENE (IS#6)
65	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
66	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
67	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
68	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
69	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
70	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
71	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
72	#619 2-FLUOROPHENOL (SS#1)
73	#612 D5-PHENOL (SS#2)
74	#447 D5-NITROBENZENE (SS#3)
75	#448 2-FLUOROBIPHENYL (SS#4)
76	#628 2,4,6-TRIBROMOPHENOL (SS#5)
77	#496 D14-TERPHENYL (SS#6)
78	#471 D10-PYRENE
79	456 1,2,3,4-TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	480	7:14	1	1.000	A BV	94008.	40.000 NG	9.27
2	94	NOT FOUND							
3	93	NOT FOUND							
4	128	NOT FOUND							
5	146	NOT FOUND							
6	146	NOT FOUND							
7	108	NOT FOUND							
8	146	NOT FOUND							
9	108	NOT FOUND							
10	45	NOT FOUND							
11	108	NOT FOUND							
12	70	NOT FOUND							
13	117	NOT FOUND							
14	77	NOT FOUND							
15	136	595	8:55	15	1.000	A BV	355632.	40.000 NG	9.27
16	52	NOT FOUND							
17	139	NOT FOUND							
18	122	NOT FOUND							
19	122	NOT FOUND							
20	93	NOT FOUND							
21	162	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
22	180	NOT FOUND								
23	128	NOT FOUND								
24	127	NOT FOUND								
25	225	NOT FOUND								
26	107	NOT FOUND								
27	142	NOT FOUND								
28	164	762	11:29	28	1.000	A BB	148820.	40.000	NG	9.27
29	237	NOT FOUND								
30	196	NOT FOUND								
31	196	NOT FOUND								
32	162	NOT FOUND								
33	65	NOT FOUND								
34	163	NOT FOUND								
35	152	NOT FOUND								
36	138	NOT FOUND								
37	153	NOT FOUND								
38	184	NOT FOUND								
39	139	NOT FOUND								
40	168	NOT FOUND								
41	89	NOT FOUND								
42	165	NOT FOUND								
43	149	NOT FOUND								
44	204	NOT FOUND								
45	166	NOT FOUND								
46	138	NOT FOUND								
47	188	903	13:36	47	1.000	A VV	211960.	40.000	NG	9.27
48	198	NOT FOUND								
49	169	NOT FOUND								
50	248	NOT FOUND								
51	284	NOT FOUND								
52	266	NOT FOUND								
53	178	NOT FOUND								
54	178	NOT FOUND								
55	149	NOT FOUND								
56	202	NOT FOUND								
57	240	1165	17:33	57	1.000	A VB	151735.	40.000	NG	9.27
58	202	1043	15:42	57	0.895	A*VB	5988.	0.814	NG	0.19
59	149	1100	16:34	57	0.944	A BV	832.	0.154	NG	0.04
60	252	NOT FOUND								
61	228	1168	17:35	57	1.003	A VB	2944.	0.562	NG	0.13
62	149	1167	17:34	57	1.002	A VB	3550.	0.446	NG	0.10
63	228	1168	17:35	57	1.003	A VB	2944.	0.638	NG	0.15
64	264	1397	21:02	64	1.000	A VV	153516.	40.000	NG	9.27
65	149	NOT FOUND								
66	252	NOT FOUND								
67	252	NOT FOUND								
68	252	NOT FOUND								
69	276	NOT FOUND								
70	278	NOT FOUND								
71	276	NOT FOUND								
72	112	377	5:41	1	0.785	A BV	209436.	39.170	NG	9.08
73	99	451	6:48	1	0.940	A BV	255564.	33.833	NG	7.84
74	82	530	7:59	15	0.891	A BV	109940.	17.136	NG	3.97
75	172	697	10:30	28	0.915	A BV	131756.	29.170	NG	6.76
76	141	838	12:37	28	1.100	A*VV	11376.	26.292	NG	6.09
77	244	1056	15:54	57	0.906	A VV	88804.	23.191	NG	5.38

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
78	212	1041	15:41	57	0.894	A VV	117398.	19.994	NG	4.63
79	216	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:48	1.06	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	6:25		10.000			50.00		3.817	
3	6:30		10.000			50.00		2.960	
4	6:34		10.000			50.00		1.877	
5	6:46		10.000			50.00		1.777	
6	6:49		10.000			50.00		1.731	
7	7:01		10.000			50.00		1.418	
8	7:05		10.000			50.00		1.658	
9	7:13		10.000			50.00		1.866	
10	7:15		10.000			50.00		6.445	
11	7:24		10.000			50.00		2.147	
12	7:25		10.000			50.00		2.467	
13	7:30		10.000			50.00		0.969	
14	7:36		10.000			50.00		3.123	
15	8:34	1.05	10.000	0.10	40.00	40.00	1.000	1.000	1.00
16	7:56		10.000			50.00		1.458	
17	8:03		10.000			50.00		0.224	
18	8:07		10.000			50.00		0.360	
19	8:16		50.000			50.00		0.234	
20	8:15		10.000			50.00		0.653	
21	8:22		10.000			50.00		0.237	
22	8:31		10.000			50.00		0.229	
23	8:35		10.000			50.00		1.133	
24	8:41		10.000			50.00		0.498	
25	8:52		10.000			50.00		0.092	
26	9:23		10.000			50.00		0.458	
27	9:35		10.000			50.00		0.607	
28	11:08	1.03	10.000	0.10	40.00	40.00	1.000	1.000	1.00
29	9:55		10.000			50.00		0.212	
30	10:02		10.000			100.00		0.300	
31	10:02		50.000			100.00		0.300	
32	10:17		10.000			50.00		1.224	
33	10:28		50.000			50.00		1.011	
34	10:48		10.000			50.00		1.558	
35	10:54		10.000			50.00		2.111	
36	11:04		50.000			50.00		0.493	
37	11:10		10.000			50.00		1.345	
38	11:13		50.000			50.00		0.106	
39	11:19		50.000			50.00		0.292	
40	11:25		10.000			50.00		1.614	
41	11:28		10.000			50.00		0.830	
42	10:52		10.000			50.00		0.320	
43	11:51		10.000			50.00		1.730	
44	11:55		10.000			50.00		0.443	
45	11:55		10.000			50.00		1.241	
46	11:58		50.000			50.00		0.352	
47	13:18	1.02	10.000	0.10	40.00	40.00	1.000	1.000	1.00
48	12:03		50.000			50.00		0.109	
49	12:06		10.000			50.00		0.616	
50	12:38		10.000			50.00		0.184	
51	12:51		10.000			50.00		0.216	
52	13:06		50.000			50.00		0.123	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
53	13:20		10.000			50.00		1.417	
54	13:23		10.000			50.00		0.995	
55	14:15		10.000			50.00		2.162	
56	15:05		10.000			50.00		1.079	
57	17:13	1.02	10.000	0.10	40.00	40.00	1.000	1.000	1.00
58	15:25	1.02	10.000	0.09	0.81	50.00	0.032	1.940	0.02
59	16:26	1.01	10.000	0.09	0.15	50.00	0.004	1.423	0.00
60	17:09		20.000			50.00		0.386	
61	17:12	1.02	10.000	0.10	0.56	50.00	0.016	1.380	0.01
62	17:19	1.01	10.000	0.10	0.45	50.00	0.019	2.097	0.01
63	17:16	1.02	10.000	0.10	0.64	50.00	0.016	1.215	0.01
64	21:00	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
65	18:15		10.000			50.00		4.177	
66	19:02		10.000			100.00		1.242	
67	19:02		10.000			100.00		1.242	
68	19:40		10.000			50.00		1.150	
69	22:50		10.000			50.00		1.234	
70	22:54		10.000			50.00		0.978	
71	23:45		10.000			50.00		0.978	
72	5:14	1.08	0.742	1.06	39.17	50.00	1.782	2.275	0.78
73	6:24	1.06	0.948	0.99	33.83	50.00	2.175	3.214	0.68
74	7:35	1.05	0.875	1.02	17.14	50.00	0.245	0.716	0.34
75	10:09	1.03	0.906	1.01	29.17	50.00	0.708	1.214	0.58
76	12:17	1.03	1.118	0.98	26.29	50.00	0.061	0.116	0.53
77	15:40	1.02	0.907	1.00	23.19	50.00	0.468	1.009	0.46
78	15:23	1.02	10.000	0.09	19.99	50.00	0.619	1.548	0.40
79	10:18		1.000			50.00		0.141	

QUANTITATION REPORT FILE: STN0

DATA: GH084986B15.TI
05/16/86 16:05:00
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:
SUBMITTED BY: 15 ANALYST: 803

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	480	7:14	3	0.629	A BB	658910.	66.508	15.85
2	RIC	595	8:58	3	0.780	A VB	841463.	84.935	20.24
3	RIC	763	11:29	3	1.000	A BB	990719.	100.000	23.83
4	RIC	903	13:36	3	1.183	A VV	668884.	67.515	16.09
5	RIC	1165	17:33	3	1.527	A VB	525668.	53.059	12.64
6	RIC	1397	21:02	3	1.831	A BV	471897.	47.632	11.35

QUANTITATION REPORT FILE: UNKNOWN

DATA: GH084986B15.TI
05/16/86 16:05:00
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:
SUBMITTED BY: 15 ANALYST: 803

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

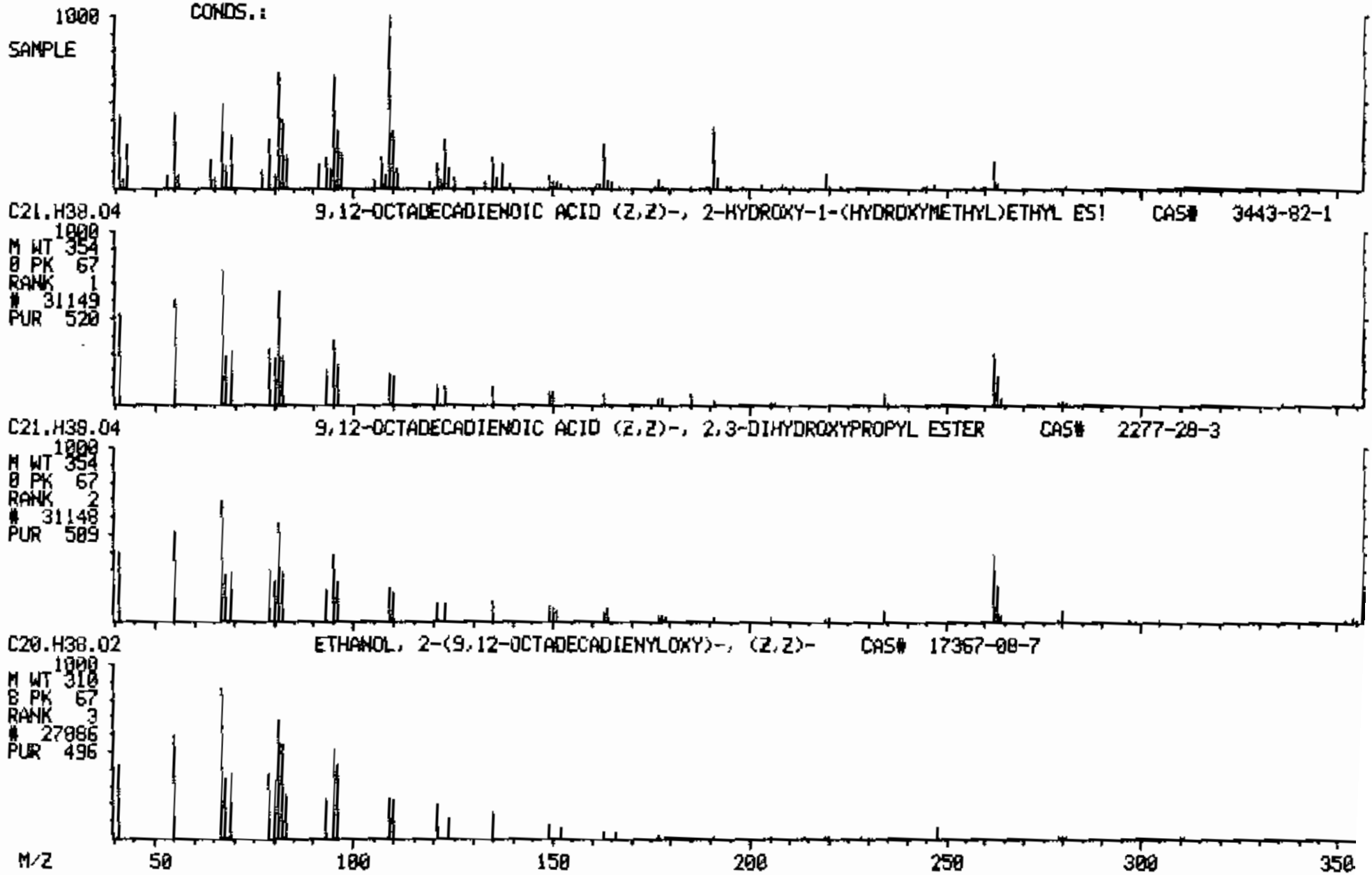
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	988	14:53	7	0.801	A VV	81193.	26.876	3.12
2	RIC	1007	15:10	7	0.817	A BV	92068.	30.476	3.53
3	RIC	1076	16:12	7	0.873	A BV	114390.	37.865	4.39
4	RIC	1142	17:12	7	0.926	A BV	116146.	38.446	4.46
5	RIC	1149	17:18	7	0.932	A VV	281478.	93.174	10.80
6	RIC	1224	18:26	7	0.993	A BV	147841.	48.938	5.67
7	RIC	1233	18:34	7	1.000	A VV	302100.	100.000	11.59
8	RTC	1241	18:41	7	1.006	A VB	176539.	58.437	6.78
9	RIC	1301	19:36	7	1.055	A VB	42672.	14.125	1.64
10	RIC	1336	20:07	7	1.084	A BB	186400.	61.701	7.15
11	RIC	1351	20:21	7	1.096	A BV	265636.	87.930	10.19
12	RIC	1496	22:32	7	1.213	A BB	137792.	45.611	5.29
13	RIC	1566	23:35	7	1.270	A VB	97038.	32.121	3.72
14	RIC	1845	27:47	7	1.496	A BV	227815.	75.410	8.74
15	RIC	1852	27:53	7	1.502	A VV	111446.	36.890	4.28
16	RIC	1869	28:09	7	1.516	A VV	225144.	74.526	8.64

COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 16:05:00 + 14:53
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:

DATA: GH084986B15 # 988
ENHANCED (100 2N 0T)

BASE M/Z: 109
RIC: 32511.

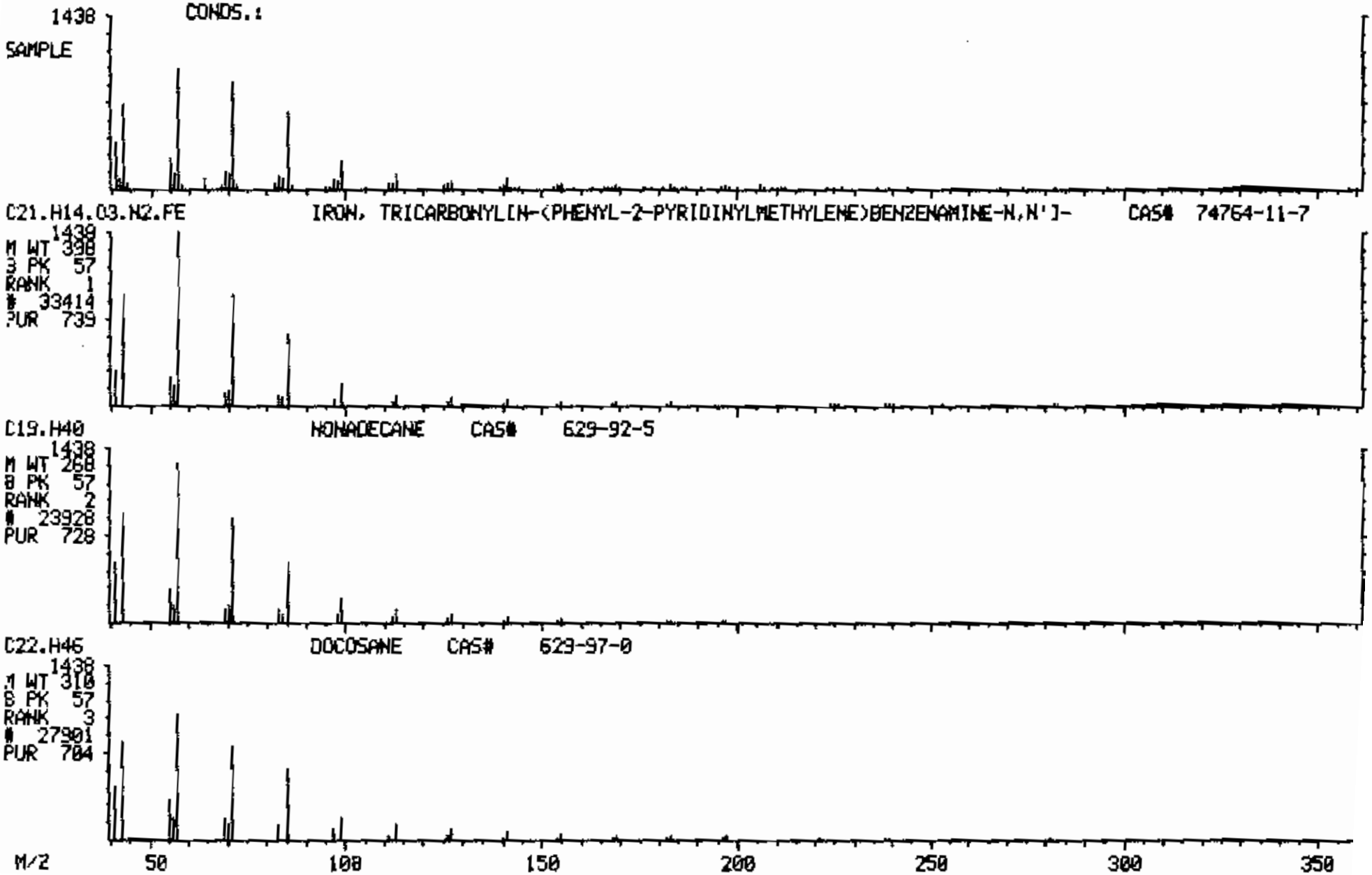


COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 16:05:00 + 15:10
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:

DATA: GH084986B15 #1007
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 42687.

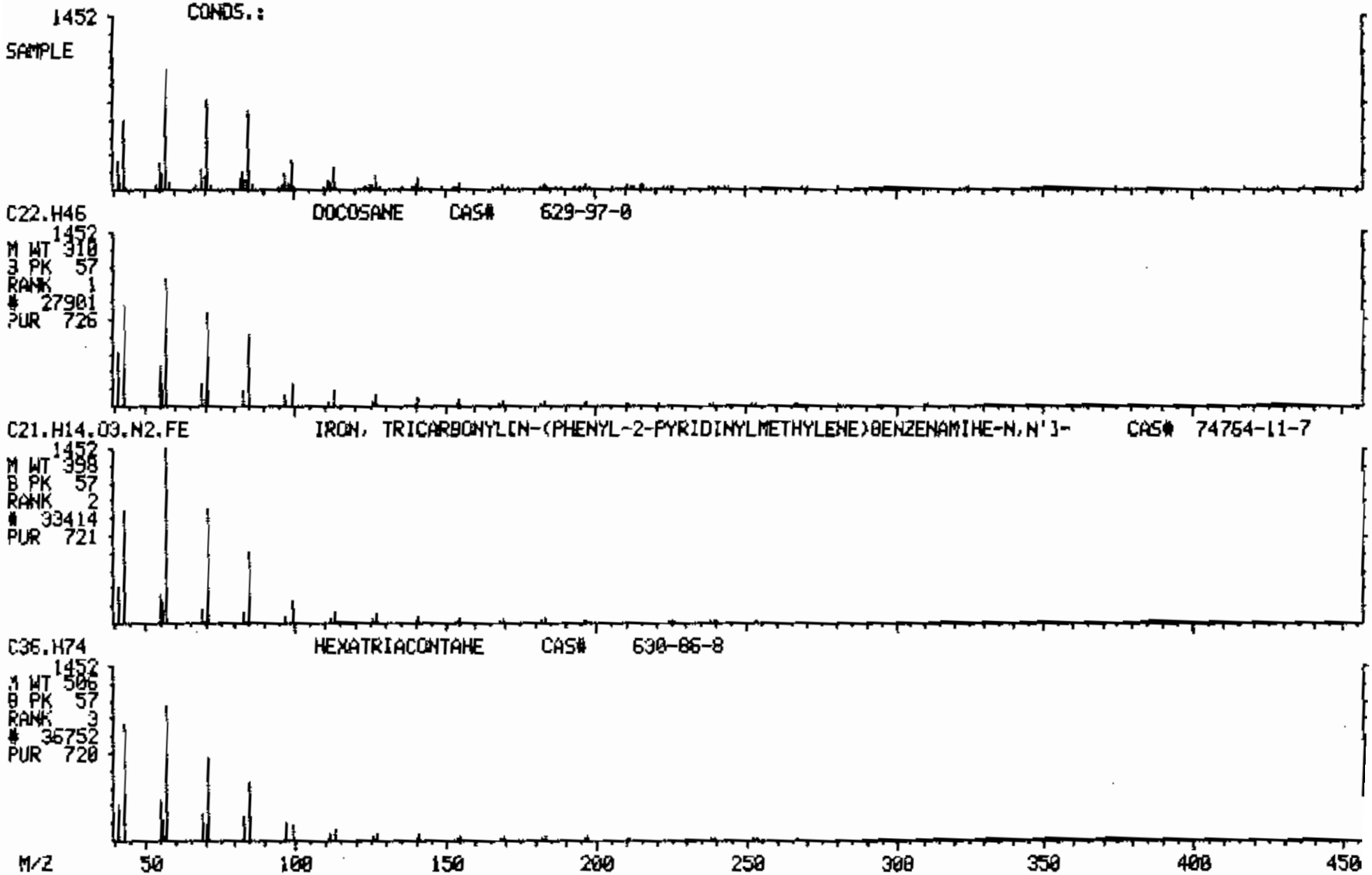


COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 16:05:00 + 16:12
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:

DATA: GH084986815 #1076
ENHANCED (10B 2H 0T)

BASE M/Z: 57
RIC: 58751.



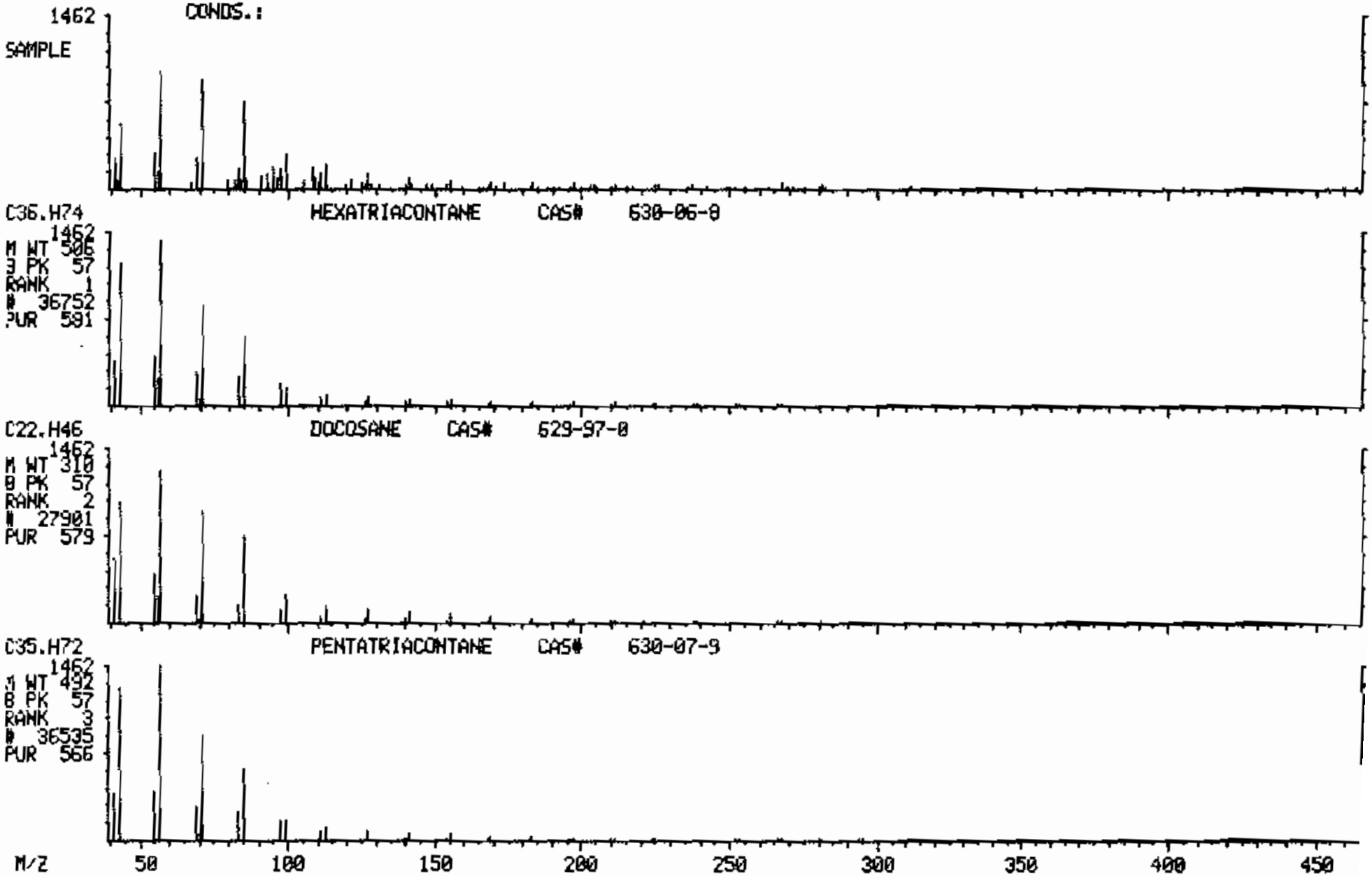
B1UA4

COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 16:05:00 + 17:12
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:

DATA: GN084986B15 #1142
ENHANCED (10B 2N 8T)

BASE M/Z: 57
RIC: 35455.

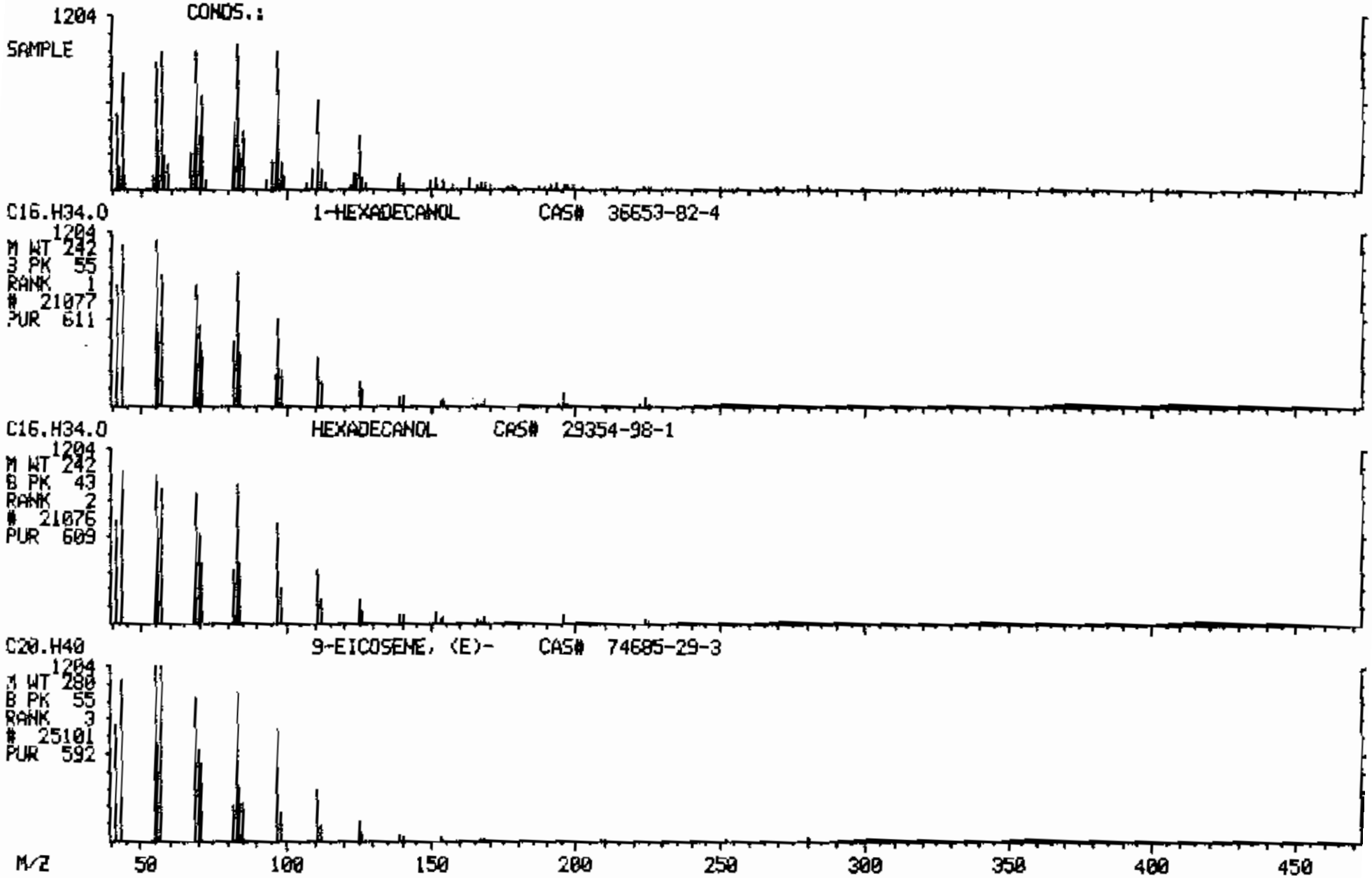


COMPUCHEM LABS

MIO LIBRARY SEARCH
05/16/86 16:05:00 + 17:18
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:

DATA: GH084986B15 #1149
ENHANCED (10B 2N 0T)

BASE M/Z: 83
RIC: 47167.

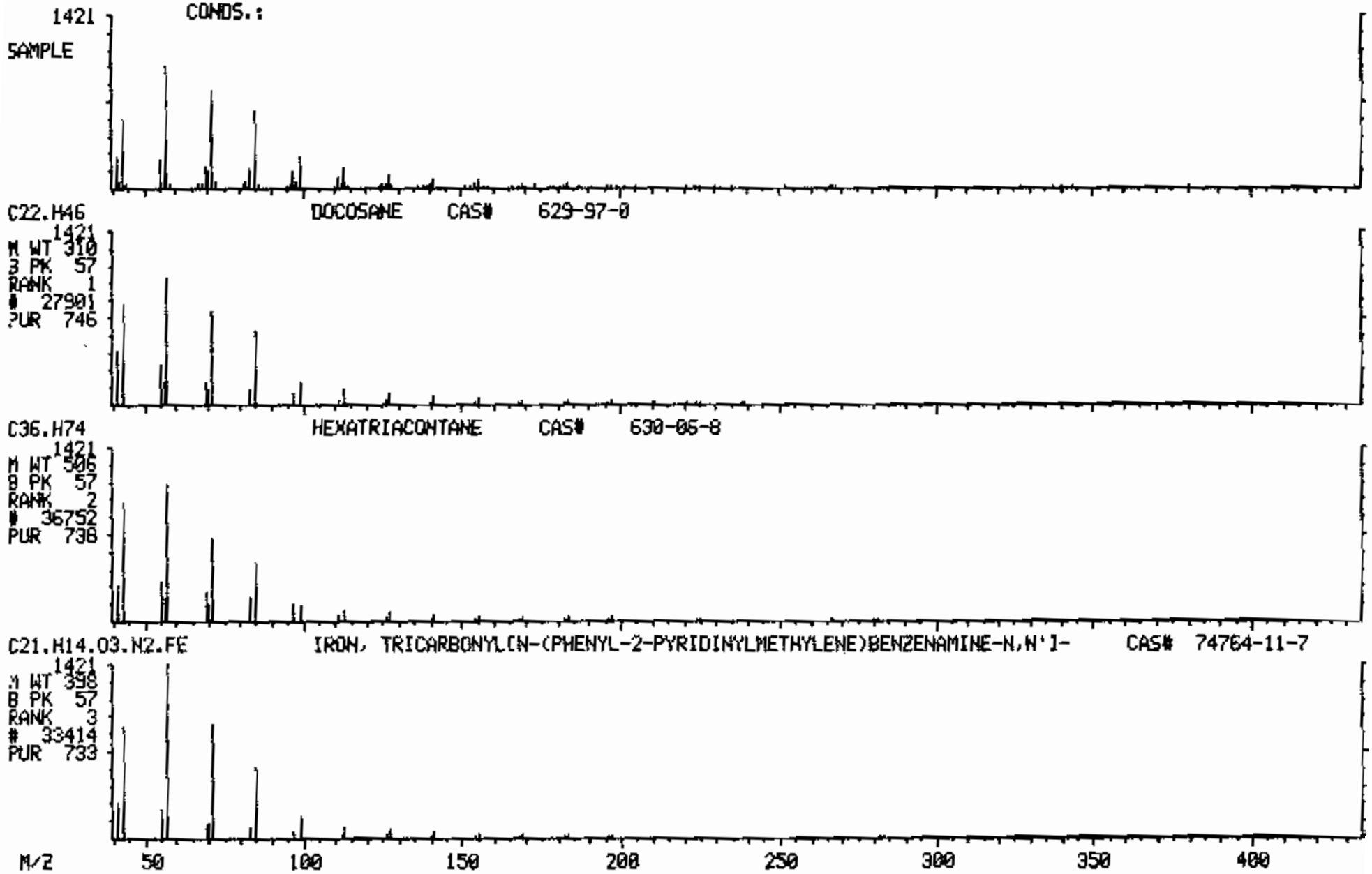


COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 16:05:00 + 10:26
SAMPLE: 1 UL CC#84386 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:

DATA: GH084986815 #1224
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 56447.

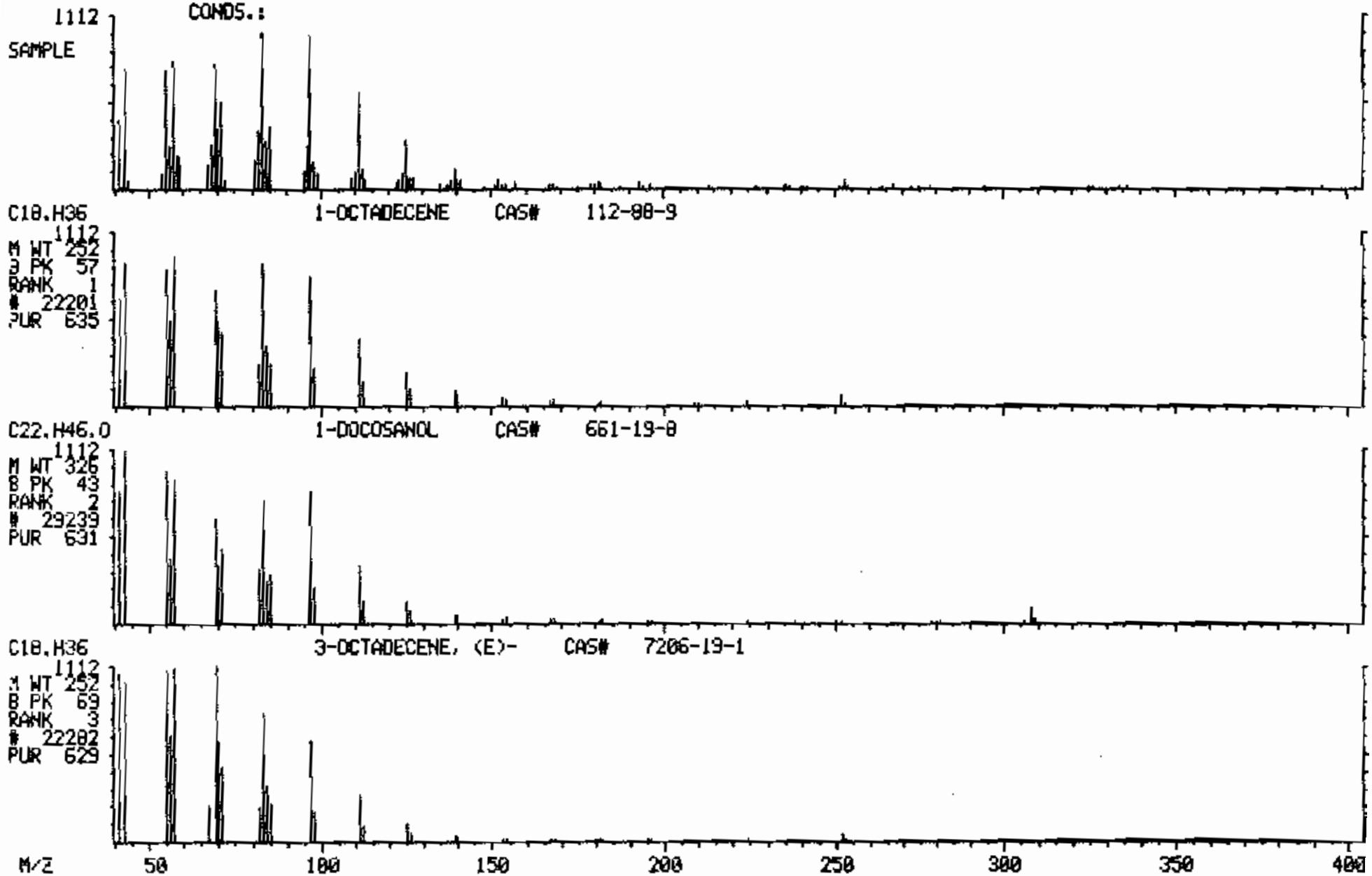


COMPUCHEM LABS

MID LIBRARY SEARCH
85/16/86 16:05:00 + 18:34
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:

DATA: GH084986015 #1233
ENHANCED (100 2N 0T)

BASE M/Z: 83
RIC: 46463.

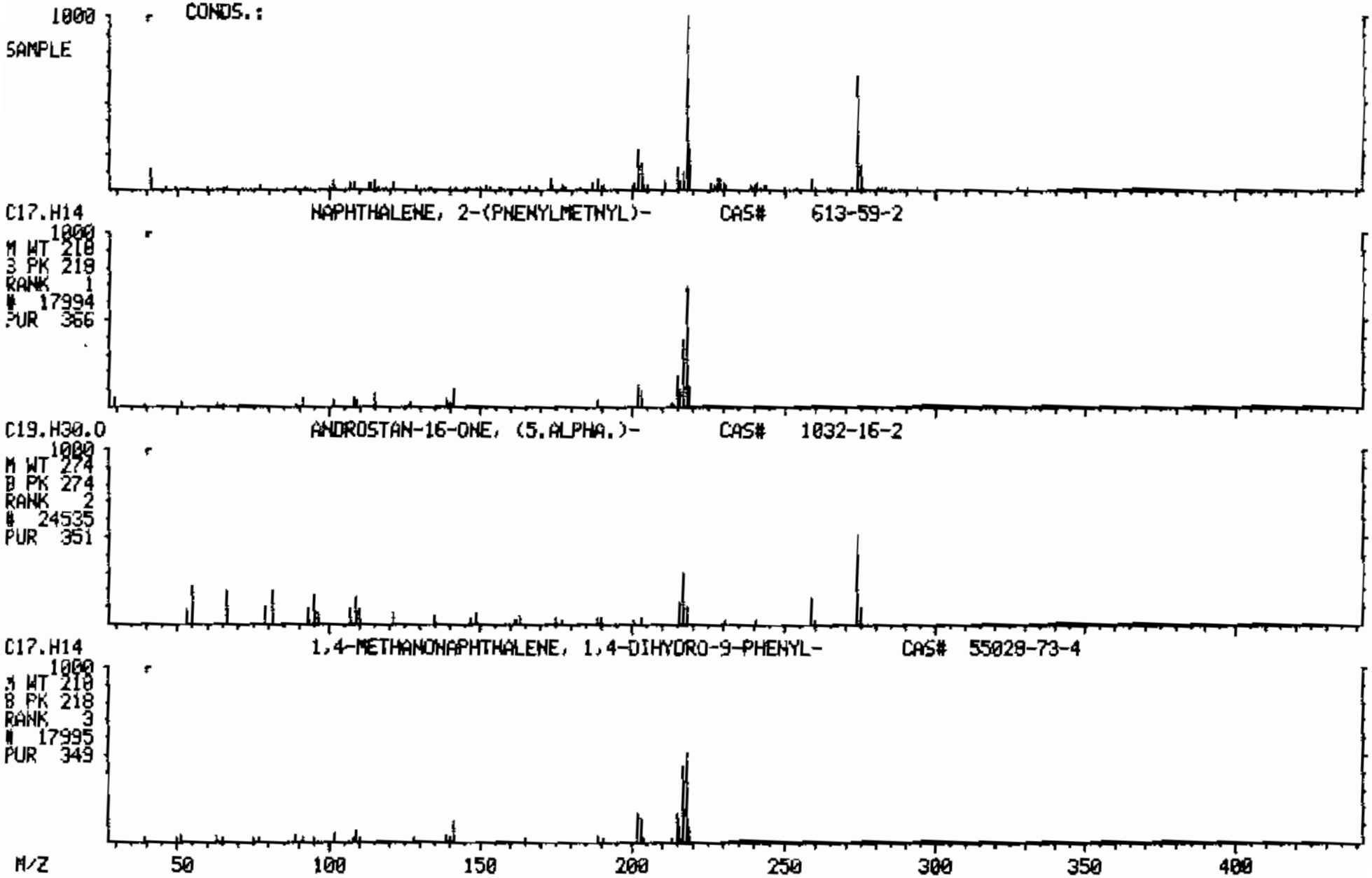


COMPUCHEM LABS

MIO LIBRARY SEARCH
05/16/86 16:05:00 + 10:41
SAMPLE: 1 UL CC#04986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:

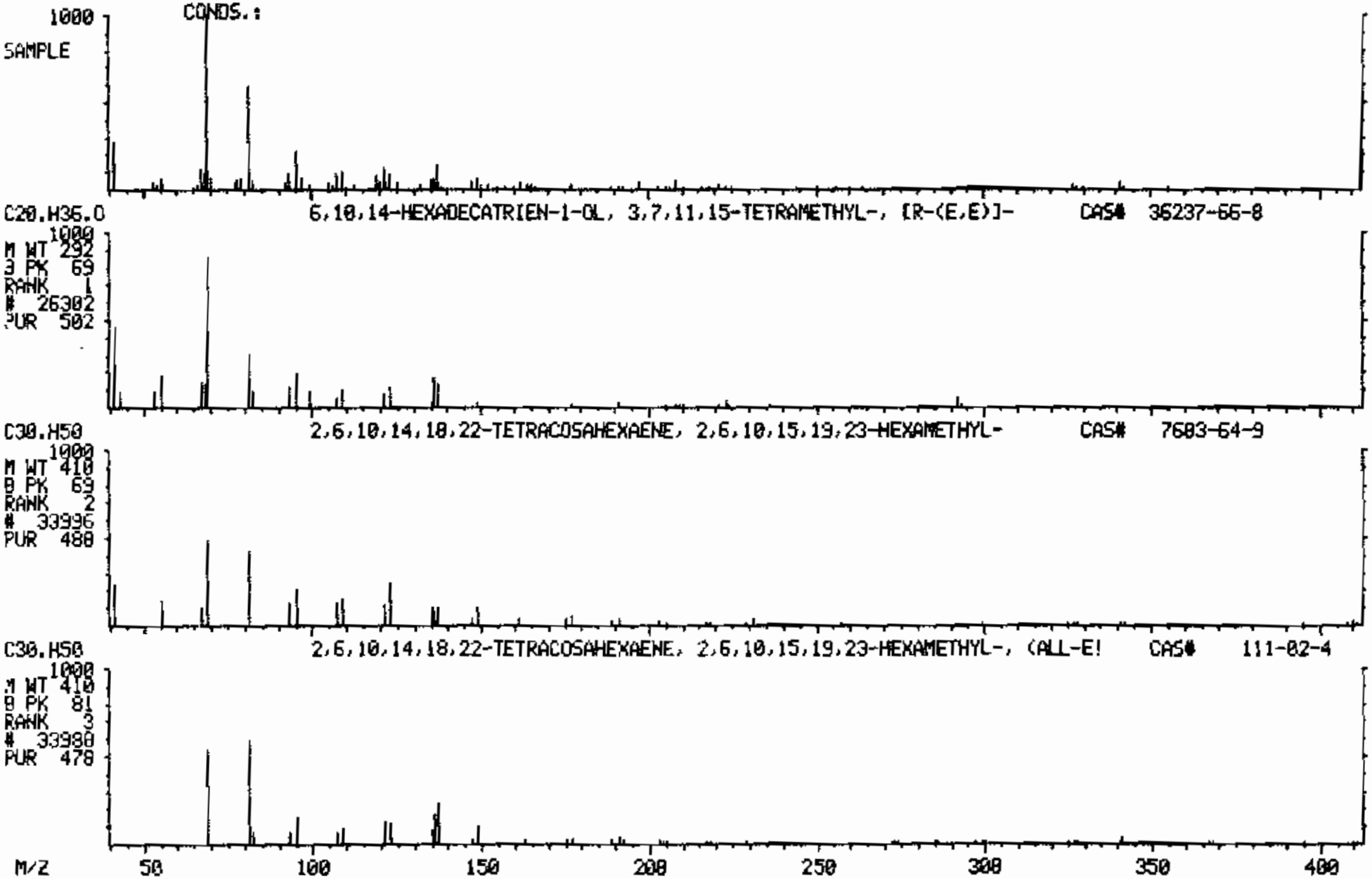
DATA: GH084906B15 #1241
ENHANCED (10B 2N 0T)

BASE M/Z: 218
RIC: 22623.



COMPUCHEM LABS

MID LIBRARY SEARCH — DATA: GH084986B15 #1301 — BASE M/Z: 69
05/16/86 16:05:00 + 19:36 — ENHANCED (10B 2N 0T) — RIC: 12543.
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:

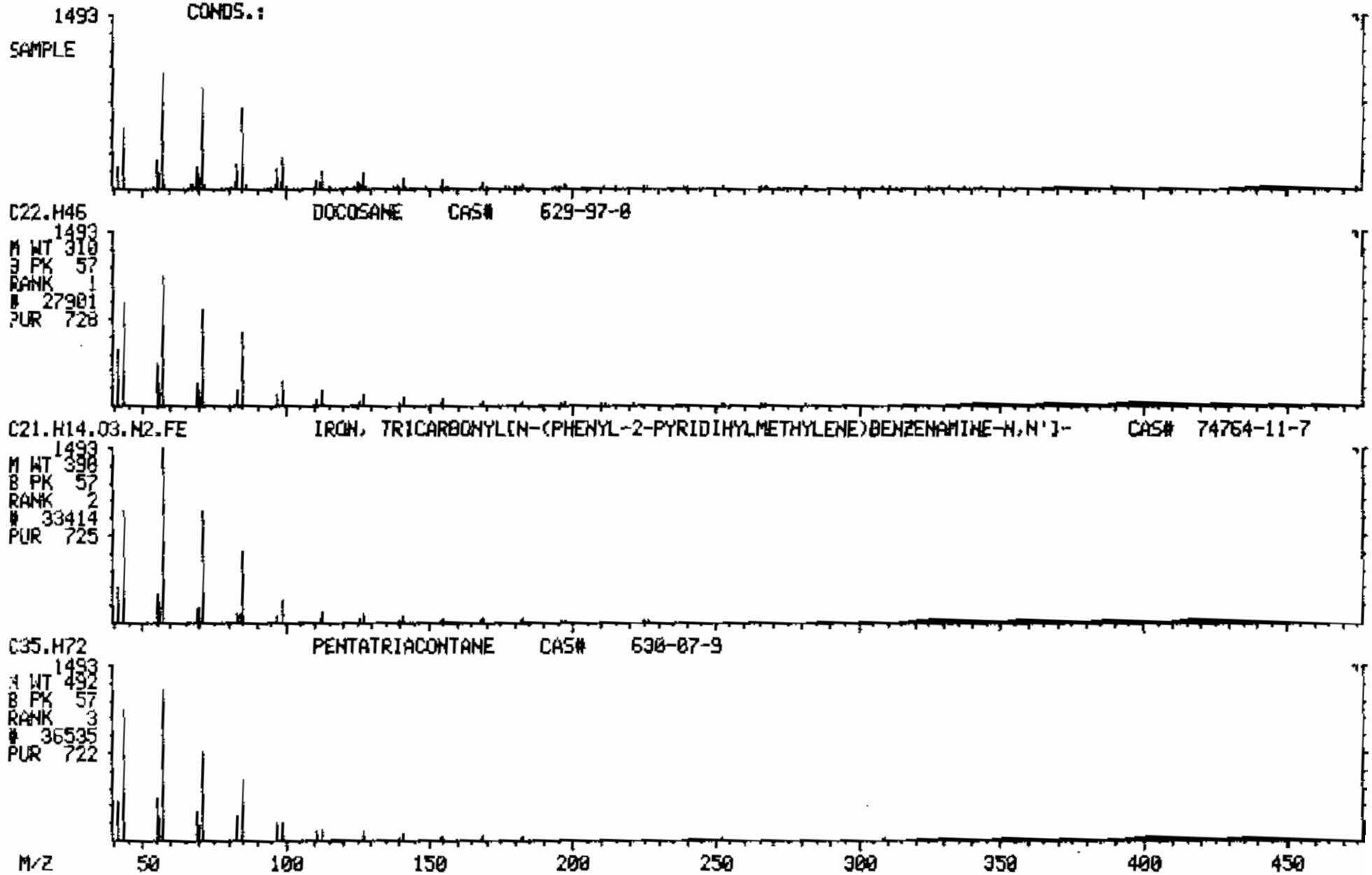


COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 16:05:00 + 20:07
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:

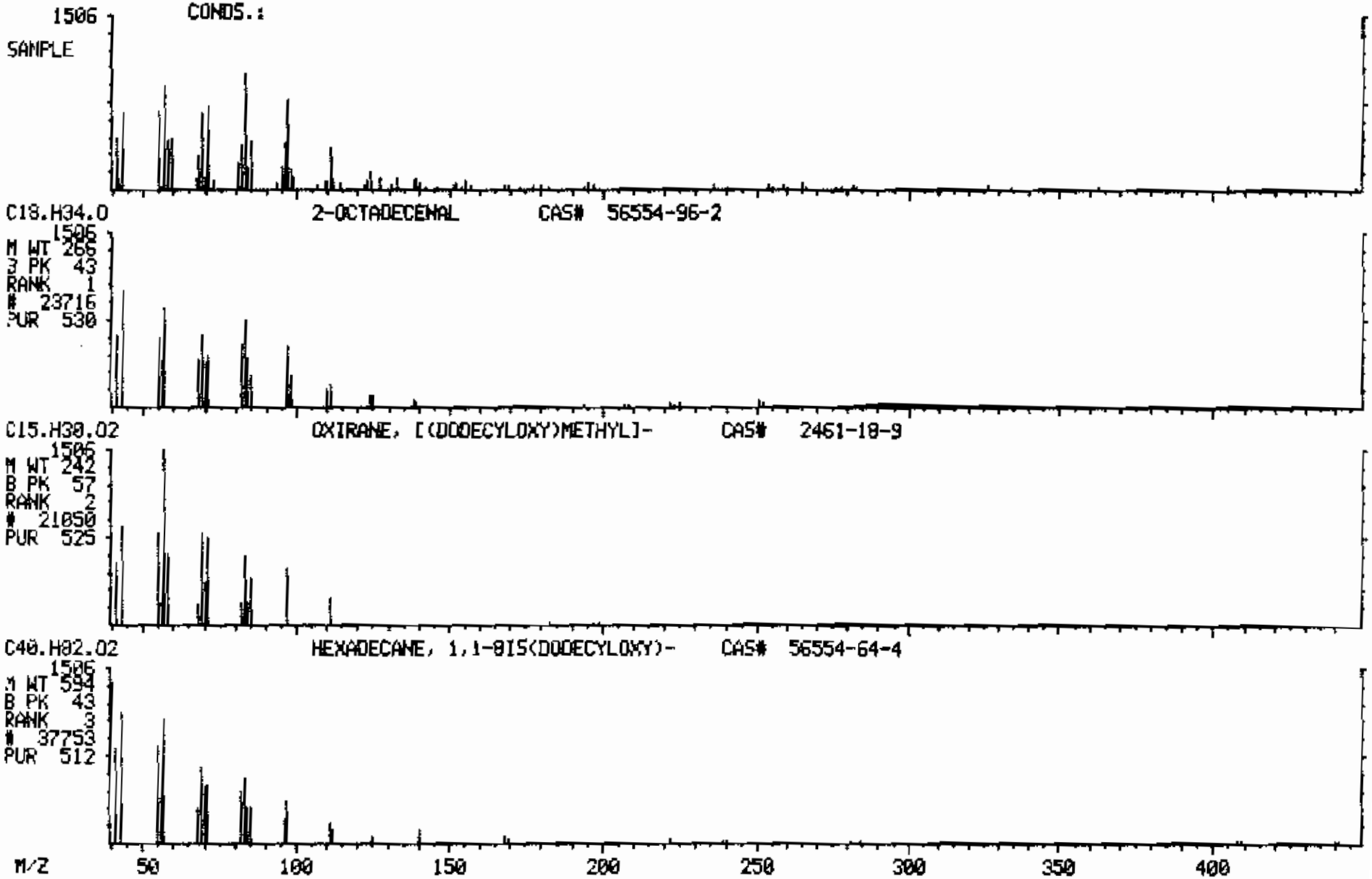
DATA: GH0849868I5 #1336
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 50815.



COMPUCHEM LABS

MID LIBRARY SEARCH — DATA: GH004986B15 #1351 — BASE M/Z: 83
05/16/86 16:05:00 + 20:21 — ENHANCED (10B 2N 8T) — RIC: 23263.
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:

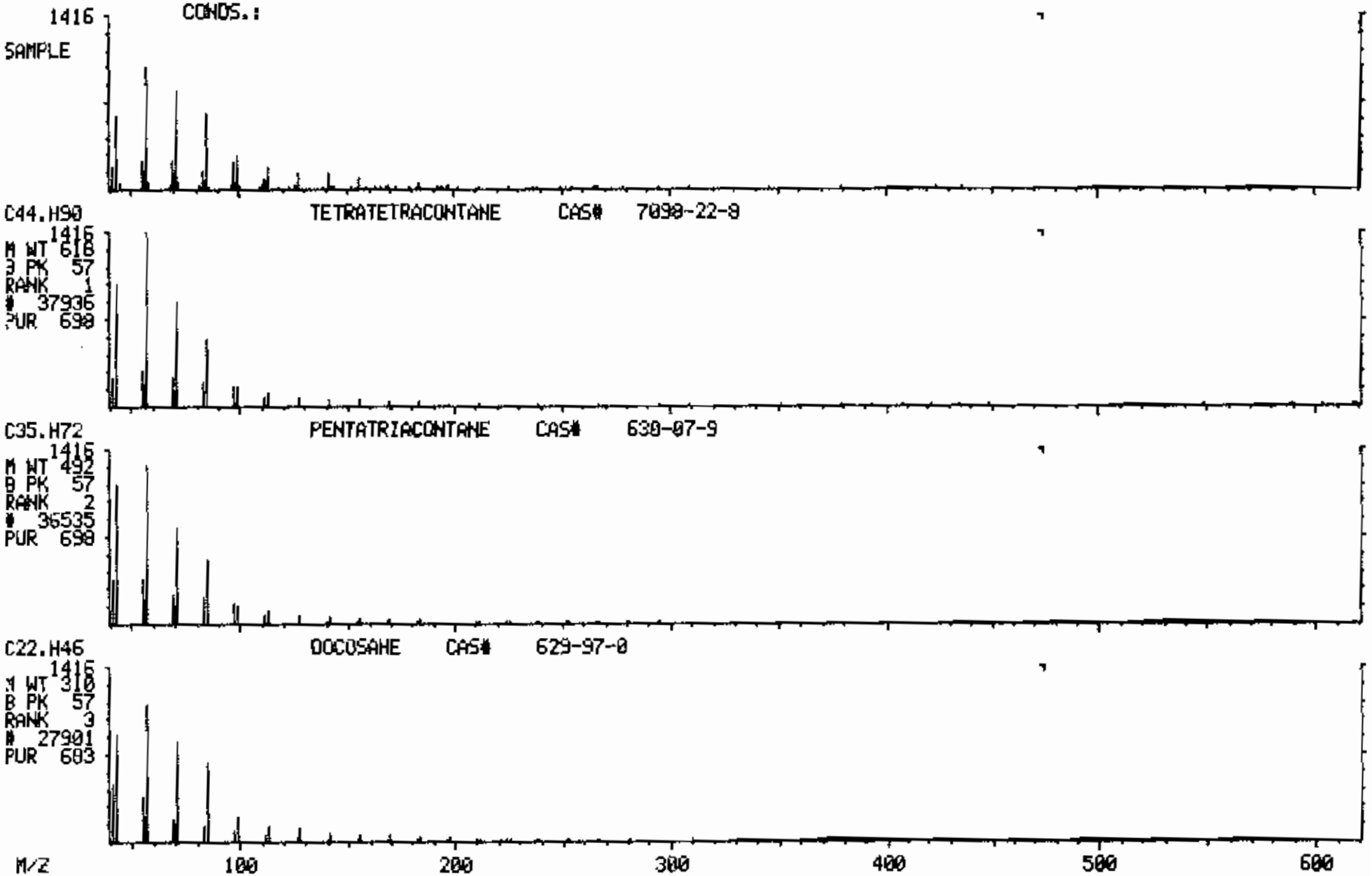


COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 16:05:00 + 22:32
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:

DATA: GH084986B15 #1496
ENHANCED (100 2H 0T)

BASE M/Z: 57
RIC: 23679.



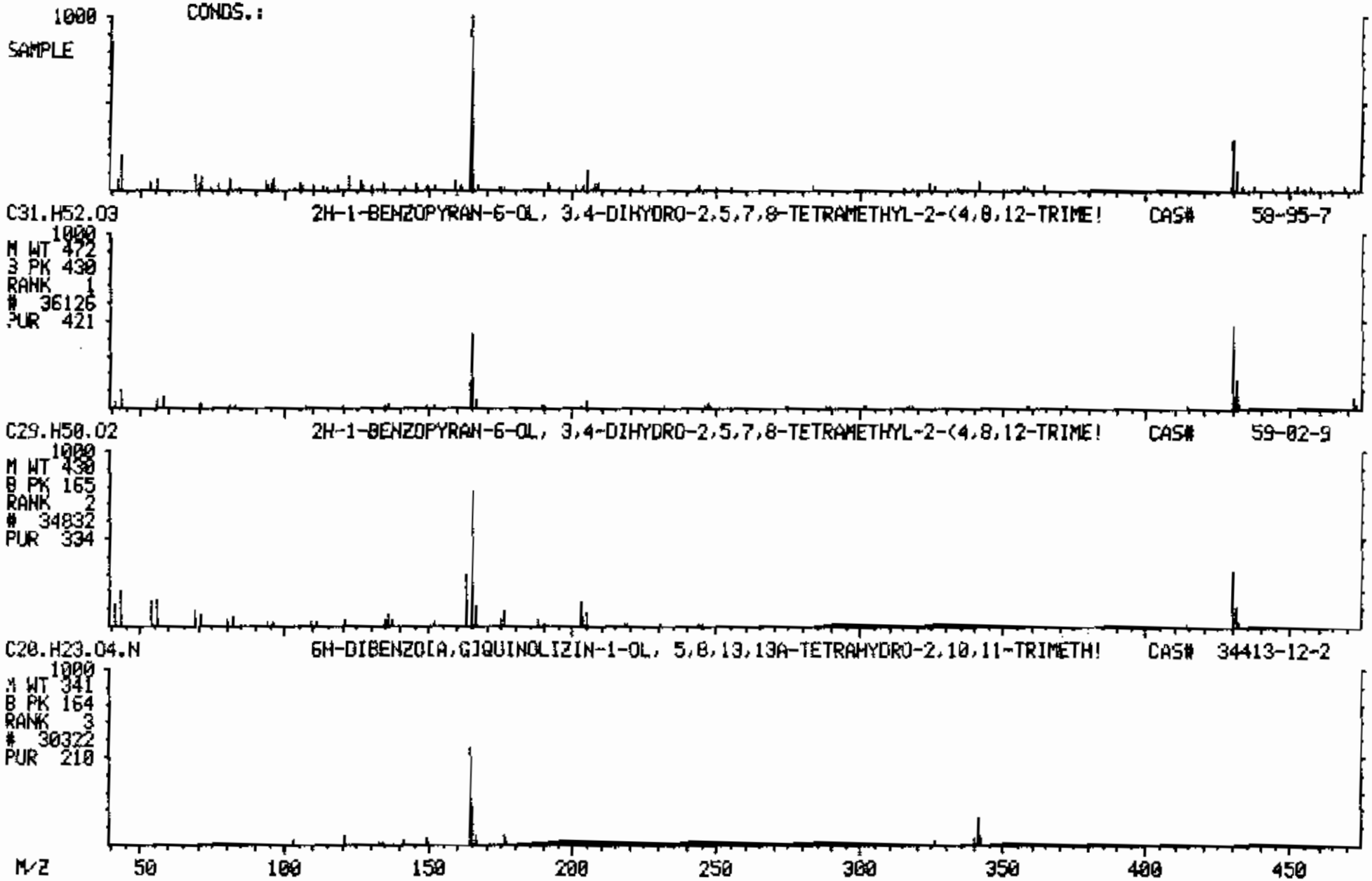
BNA 12

COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 16:05:00 + 23:35
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:

DATA: GH084986B15 #1566
ENHANCED (100 2H 0T)

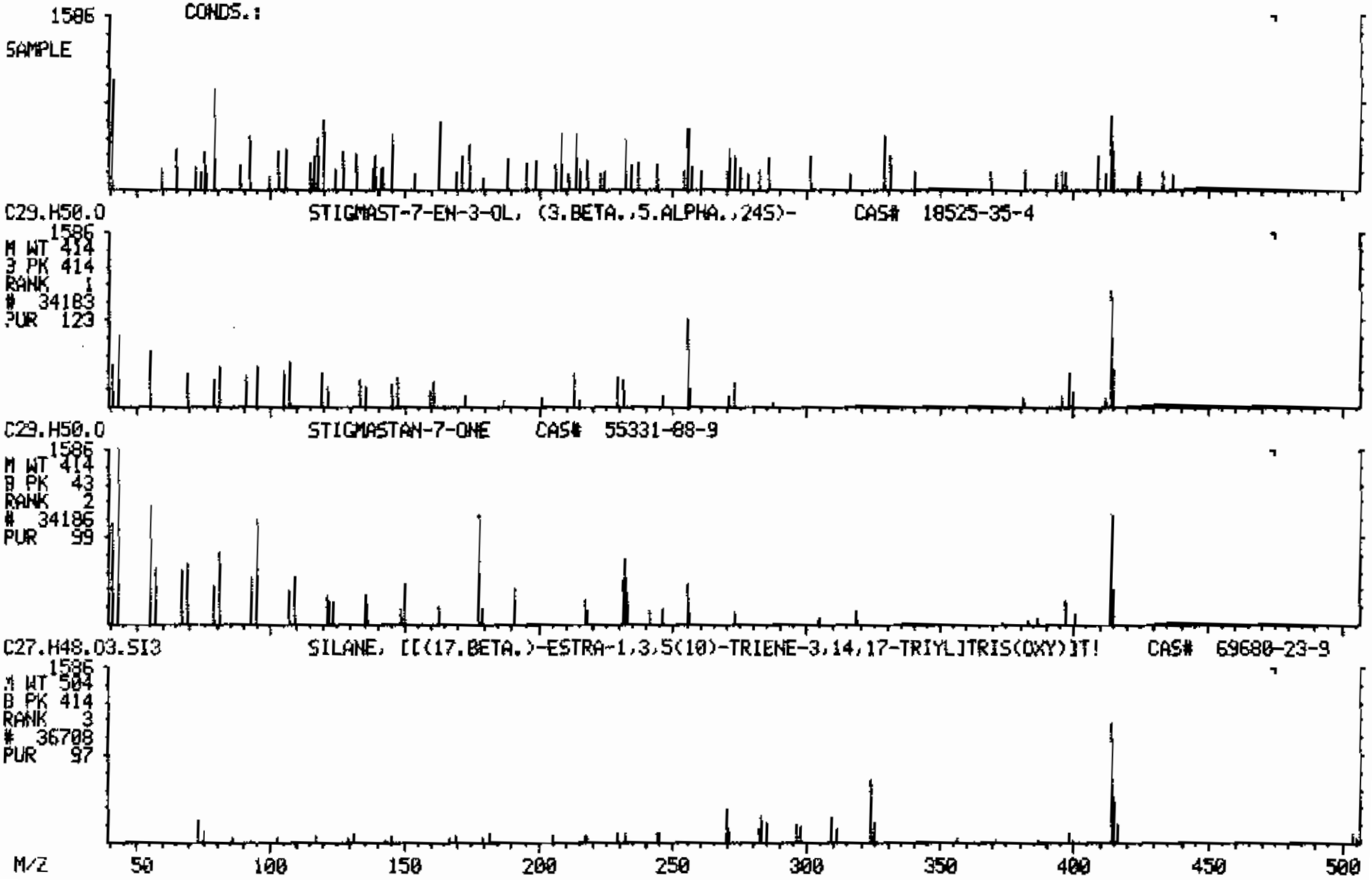
BASE M/Z: 165
RIC: 8383.



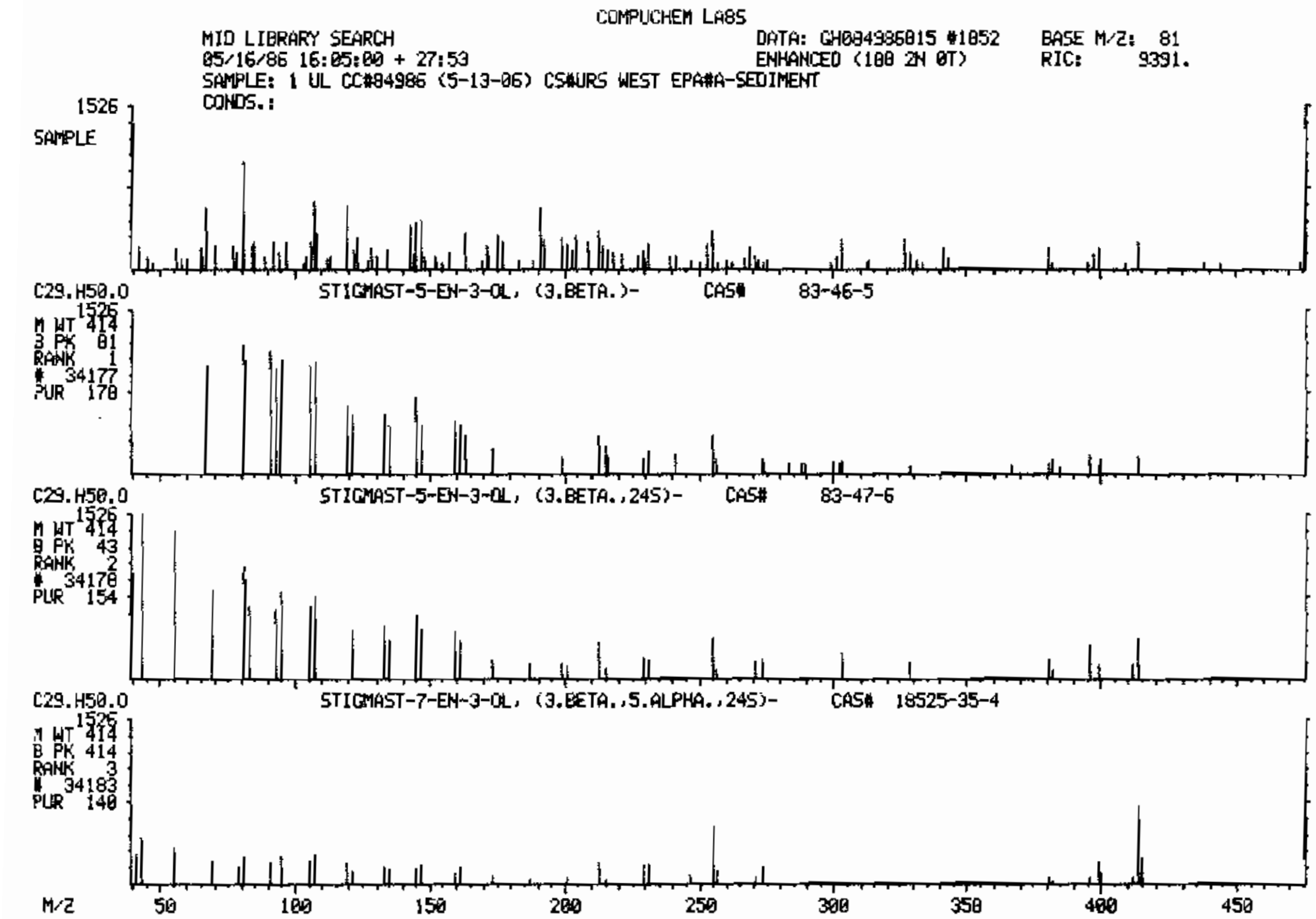
BNA14

COMPUCHEM LABS

MID LIBRARY SEARCH — DATA: GH004986815 #1845 — BASE M/Z: 41
05/15/86 16:05:00 + 27:47 — ENHANCED (10B 2N 0T) — RIC: 5215.
SAMPLE: 1 UL CC#84986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:



BNA 15

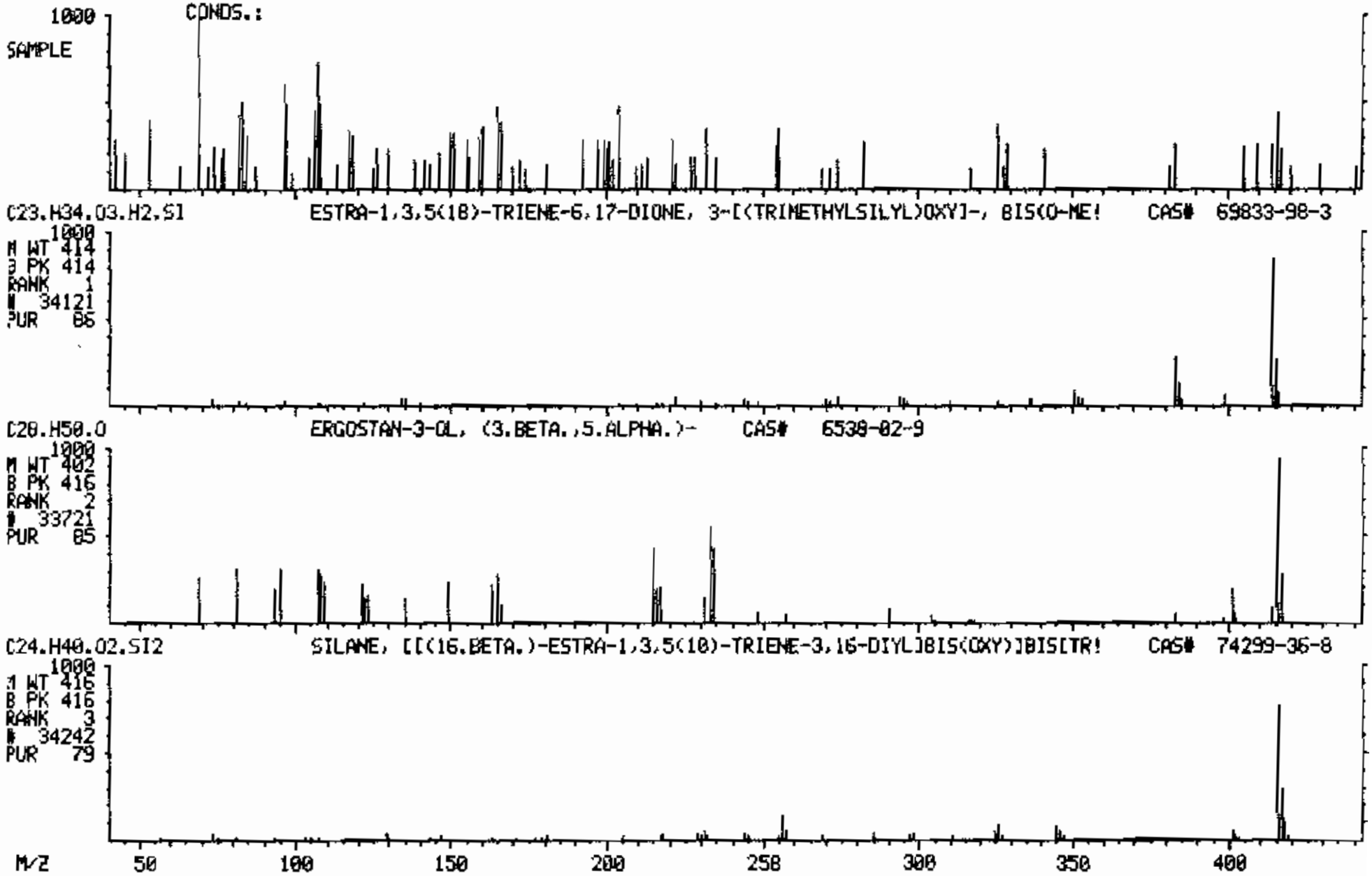

COMPUCHEM LABS
MID LIBRARY SEARCH
05/16/86 16:05:00 + 27:53
SAMPLE: 1 UL CC#84986 (5-13-06) CS#URS WEST EPA#A-SEDIMENT
CONDS.:
DATA: GH084986015 #1852
ENHANCED (100 2N 0T)
BASE M/Z: 81
RIC: 9391.
1526
SAMPLE
C29.H50.O
STIGMAST-5-EN-3-OL, (3.BETA.)-
CAS# 83-46-5
M WT 414
B PK 81
RANK 1
34177
PUR 170
C29.H50.O
STIGMAST-5-EN-3-OL, (3.BETA.,24S)-
CAS# 83-47-6
M WT 414
B PK 43
RANK 2
34178
PUR 154
C29.H50.O
STIGMAST-7-EN-3-OL, (3.BETA.,5.ALPHA.,24S)-
CAS# 18525-35-4
M WT 414
B PK 414
RANK 3
34183
PUR 140
M/Z
50
100
150
200
250
300
350
400
450

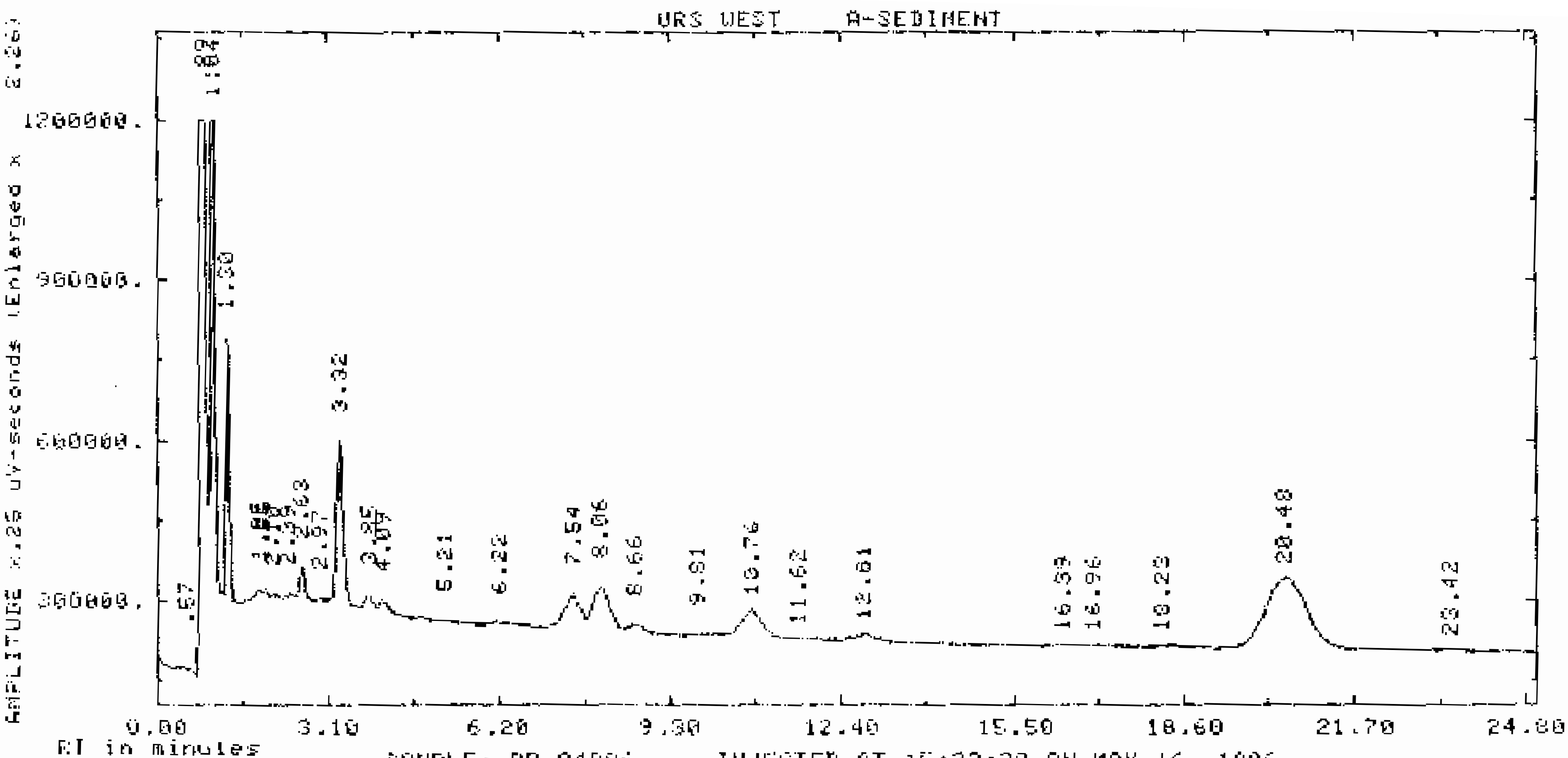
COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 16:05:00 + 28:09
SAMPLE: 1 UL CC#04986 (5-13-86) CS#URS WEST EPA#A-SEDIMENT
CONDS.:

DATA: GH004986015 #1869
ENHANCED (10B 2N 0T)

BASE M/Z: 69
RIC: 5135.





SAMPLE: PP 84986 INJECTED AT 16:23:20 ON MAY 16, 1986
Method: PACK07 Raw: R7441 Proc: P7441

Report: 214.00 Channel: 7 URS WEST A-SEDIMENT

Sample: PP 84985 Injected at 15:23:20 ON MAY 16, 1986

APCT Method: PACK07 Seq: SEQ74 Subsq/Samp: 1/41 Btl: 41

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.560	3.000	0.00	10000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	500.00	NO

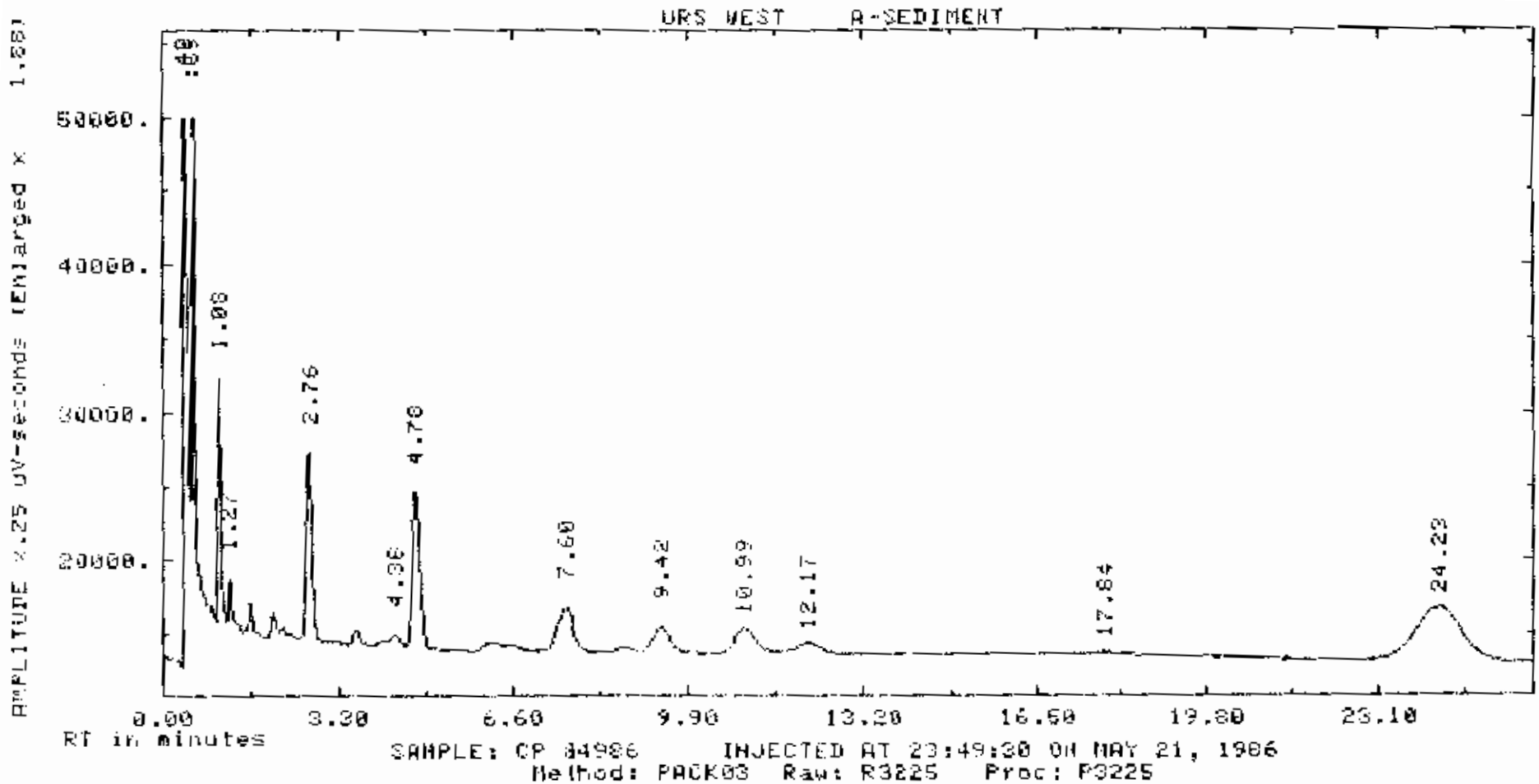
Actual run time: 25.008 minutes

No reference peak found

RT	ITM	Factor	Area		AREA %	Name
.57	0.00	.10000E+01	14604.	BB	.342	
.89	0.00	.10000E+01	9239302.	BB	216.410	
1.04	0.00	.10000E+01	3916895.	BB	91.744	
1.30	0.00	.10000E+01	1012120.	BB	23.707	
1.85	0.00	.10000E+01	23873.	BB	.559	
1.95	0.00	.10000E+01	12866.	BB	.301	
2.10	0.00	.10000E+01	12697.	BB	.297	
2.39	0.00	.10000E+01	17124.	BB	.401	
2.63	0.00	.10000E+01	213788.	BB	5.008	
2.97	0.00	.10000E+01	11669.	BB	.273	
3.32	0.00	.10000E+01	1351554.	BB	31.657	
3.85	0.00	.10000E+01	107620.	BB	2.521	
4.09	0.00	.10000E+01	70280.	BB	1.646	
5.21	0.00	.10000E+01	12773.	BB	.299	
6.22	0.00	.10000E+01	15578.	BB	.365	
7.54	0.00	.10000E+01	368064.	BB	8.621	
8.06	0.00	.10000E+01	509850.	BB	13.816	
8.66	0.00	.10000E+01	55314.	BB	1.296	
9.81	0.00	.10000E+01	11600.	BB	.272	
10.76	0.00	.10000E+01	656932.	BB	15.387	
11.62	0.00	.10000E+01	11930.	BB	.280	
12.01	0.00	.10000E+01	141696.	BB	3.319	
16.39	0.00	.10000E+01	15281.	BB	.358	
16.96	0.00	.10000E+01	12223.	BB	.286	
18.23	0.00	.10000E+01	16465.	BB	.386	
20.48	0.00	.10000E+01	3414680.	BB	79.961	
23.42	0.00	.10000E+01	19969.	BB	.468	

Total Area = 21346764. Total AREA % = 19969.000

Processed data file: P7441 Raw data file: R7441


URS WEST A-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 1.68)
50000.
40000.
30000.
20000.
.00
1.08
1.27
2.76
4.38
4.78
7.60
9.42
10.99
12.17
17.84
24.23
0.00
3.30
6.60
9.90
13.20
16.50
19.80
23.10
RT in minutes
SAMPLE: CP 84986 INJECTED AT 23:49:30 ON MAY 21, 1986
Method: PACK03 Raw: R3225 Proc: P3225

Report: 381.00 Channel: 3 URS WEST A-SEDIMENT

Sample. CP 84986 Injected at 23:49:30 ON MAY 21, 1986

ZERO Method: PACK63 Seq: SEQ32 Subsq/Samp: 1/25 Rtl: 25

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	.300	0.00	5000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	500.00	NO

Actual run time: 26.008 Minutes

Reading(s) missed
Ended not on baseline

RT	ITM	Factor	Area		AREA %	Name
.40	0.00	.10000E+01	122525.	BB	114.885	
.59	0.00	.10000E+01	61566.	BB	57.727	
1.08	0.00	.10000E+01	29133.	BB	27.316	
1.27	0.00	.10000E+01	6380.	BB	5.982	
2.76	0.00	.10000E+01	45374.	BB	42.545	
4.38	0.00	.10000E+01	5278.	BB	4.949	
4.78	0.00	.10000E+01	54673.	BB	51.263	
7.60	0.00	.10000E+01	33190.	BB	31.121	
9.42	0.00	.10000E+01	19797.	BB	18.562	
10.99	0.00	.10000E+01	22483.	BB	21.081	
12.17	0.00	.10000E+01	9097.	BB	8.530	
17.84	0.00	.10000E+01	11351.	BB	10.643	
24.23	0.00	.10000E+01	112484.	BF	105.395	

Total Area = 533252. Total AREA % = 112403.750

Processed data file: P3225 Raw data file: R3225

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB ONLY IN PLATINUM FORMAT
CASE#: URS WEST DUE DATE: 6/11/86

VOA
GC/MS WORKSHEET COMPUCHEM#: 84986

R1[ ] R2[ ] D1[ ] (:1)
R3[ ] R4[ ] D2[ ] (:1)

LOW LEVEL SOLID

Sample Prep Code---155
Instrument Code----257
Compound List------146
Surrogate Std------394
Internal Std-------036

SAS: EPA#: A-SEDIMENT Dry Weight Factor 2.17

GC/MS ANALYSIS
Amount Purged: [✓] 10mls/Xg soil or [ ]Dilution_____ul/10000ul/Xg soil
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BF860514B18 Disk(2940)
Blank Filename GB860515C18 Disk ( )
Standard Filename GS860515C18 Disk ( )
Sample Filename GH084986C18 Disk ( )

ANALYST(S): Injection 891 Work-up 891

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,ES,SM,JS,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR
IF,LA,DI,CO,RN,DW,SI,SF
UP,BB,DT,VC,FO,NS

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: 0

[ ] Reprep neat required

[ ] Reprep using_____g

Quality Assurance Notice(s):
Notices Required_____

[ ] Dilute (:1)

COMMENTS:

GC/MS Review [signature] Date 5/15/86 Auditor_____Date___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): GH084986C18 /

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

AC387, (09/85)

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB ONLY IN PLATINUM FORMAT

CASE#: URS WEST DUE DATE: 6/11/86

SEMI-VOLATILE GC/MS WORKSHEET COMPUCHEM#: 84986

J1[ ] R1[ ] D1[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

LOW LEVEL SOLID

Sample Prep Code--- -717
Instrument Code------255
Compound List--------172
Surrogate Std--------393
Internal Std---------035

SAMPLE ID/EPA#: A-SEDIMENT Dry Weight Factor 2.17

GC/MS ANALYSIS

Volumes mixed: BN — ul Acid 200 ul

Internal Standard Volume Added 5 ul

Mixed Sample Volume Injected 1 ul

Date of Sample Bottle Analyzed 5/13/86

DFTPP Filename DI8605161C15 Disk (3H7)

Standard Filename H8605161C15 Disk ( )

Sample Filename GH084986B15 Disk ( )

ANALYST(S): Injection 807 Work-up 803

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,DA ED,IF,LA,DI,CO,RN,DW,NS

OK 20 5-16-86

Disposition: [X] Complete

[ ] Reinjection required

[ ] Reextraction required

[ ] Dilute (:1)

[ ] Reinject Neat

[ ] Send to QA

Extraneous Peak Search Results:

# of Peaks Found: 46

# of Hits: 40

# of Surrogate Outliers: 0

Quality Assurance Notice(s):

Notices Required 0

GC/MS Review [signature] Date 5/19/86 Auditor [signature] Date 5/19/86

REPORT INTEGRATION Total # of Injections: 1

Final Reportable Package(s): ____/____

QA COMMENTS:

Initials ____ Date ____/____/____

FINAL REVIEW: Initials ____ Date ____/____/____

AC385 (07/85)

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB ONLY IN PLATINUM FORMAT

CASE # URS WESTDATE DUE 6/11/86

COMPUCHEM # 84986

PESTICIDE
WORKSHEET

LOW LEVEL SOLID

Sample Prep Code---716
Instrument Code----124
Compound List------177
Surrogate Std------396

==

SAS: ID#: A-SEDIMENT Dry Weight Factor 2.17

Blank Associated with Case________ ____________ _______

Associated Blank ______

==

EXTRACTION INFORMATION: CALC Used? yes |___|

Wt. of sample 30.89 g final volume of extract 2.0 mls

portion of wt. in pesticide 1/10

==

ANALYSIS INFORMATION: COMMENTS

~~DDE~~
~~DDD N/C~~

BDL [illegible]

|___| Send to QA

|___| QA Approved

|___| Need QC/MS Confirmation

Date	Inst. # / Sequence		Dil. Fact.
5-16	7	74	5
5-21	3	32	5
___	___	___	___

Analyst 924/899 Date 5-23-86

==

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE 3415 X Dilution Factor 5 X 100 = 108 % Recovery
AREA IN STD 15762
% Recovery X 0.1 ug/ml = .108 ug/ml

==

+EA = re-extract acceptable
JA = reinject acceptable
OA = repeat confirmed original results
OK = original data acceptable (not for REPEATS)
NS = insufficient sample for repeat
DL = OBC low ((20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.

FINAL STATUS CODE+= | OK |

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA:__________

|___| QANA |___| QAN3 QA notice included.

==

SAMPLE DISPOSITION Code

|___| Complete................

|___| Requires Re-extraction.. 716

|___| Requires reprep......... 930

|___| Requires cleanup........ 901

==

Audited By______________ Date______________

ENTERED

(19)

VOLATILE PREP WORKSHEET

№ 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
84986	-155	urs WEST			5.07g	5-13-86					ENT
84988	1	1	BS		0ml						
84989	1	1	SS	84986	5.07g						
84990	1	1			5.01g						ENT
84991	1	1	SS	84990	5.01g						
85000	1	1			5.02g						ENT
85001	1	1			5.07g						ENT
85002	1	1			5.00g						ENT
85003	1	1			5.01g						ENT
85004	1	1			5.09						ENT
85005	1	1			5.09						ENT
85028			B		5.0ml	5-13-86					
85029			B		0ml	5-13-86					
			B								

Surrogate No. /

Amount

Lot /

MBG 5-13-86

Schedule Reference

Manual Counter 2781 715

(47)

VOLATILE PREP WORKSHEET

№ 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LID	Screens S	Screens L	Screens M	Comments
84986	-158	WEST			20.09g	5-13-86			✓		ENT
84987			BS		40 ml				✓		
84990					20.06g				✓		ENT
85000					20.02g				✓		ENT
85001					20.07g				✓		ENT
85002					20.02g				✓		ENT
85003					20.05g				✓		ENT
85004					20.10g				✓		ENT
85005					20.01				✓		ENT
85034			B		40 ml	5-13-86			✓		
85035			B		40 ml	5-13-86			✓		
			B								

Surrogate No. # 381
Amount 200 µl
Lot 17471

MBA 5/13/86

Schedule Reference
Manual Counter 288/472

EXTRACTION WORKSHEET
Semi-Volatiles / Miscellaneous

ASSIGNED TO: Linda ! A.T.

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	A	DATE COMPT	COMMENTS
84992	-153	WSwet	NA	BS		30.00	1ml	—		—			5/13	
84993	-717	WSwet		BS		30.00	—	0.9		1ml			5/13	
84994		WSwet		SS	9.5001	30.59	—	0.9		1ml			5/13	277/199
84995		WSwet		SS	15.001	30.32	—	0.9		1ml			5/13	
84986		WSwet				30.89	1ml	0.9		1ml			5/13	
84990						30.34	1ml	0.9		1ml			5/13	
85000						30.41	1ml	0.9		1ml			5/13	
85001						30.82	1ml	0.9		1ml			5/13	
85002						30.45	1ml	0.9		1ml			5/13	
85003						30.85	1ml	0.9		1ml			5/13	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	177914			176.86		
SPIKE	NO.		3012	2021			
	AMT.		10ml	1.0ml			
	LOT		17654	17771			

Blanks 85102 / 85103 } on 9782 along w/other Samp

MANUAL COUNTER 270 /6/13

FINAL VOLUME VERIFIED L.A.P.

SUPERVISOR REVIEWED OK

EXTRACTS RECEIVED BY BD 5/13/86

florisil Lot # 209 washed 5/13/86

No 9781

EXTRACTION WORKSHEET
Semi-Volatiles/Miscellaneous

ASSIGNED TO: [illegible]

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
85004	-717	Wsweat	NA			30.41	1ml	0.9		1.0 ml			5/13	
85005	↓	↓	↓			30.30	1ml	0.9		1.0 ml			5/13	
85102				B1		30.00	1ml	0.9		1.0 ml			5/13	
85103	↓			B2		30.00	1ml	0.9		1.0 ml			5/13	

Add'n samples on # 9778

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17794			12646		
SPIKE	NO.						
	AMT.						
	LOT						

MANUAL COUNTER 270/613

FINAL VOLUME VERIFIED LLP

SUPERVISOR REVIEWED [initials]

EXTRACTS RECEIVED BY [initials] 5/13/86

Acetone Lot # 569

№ 9782

EXTRACTION WORKSHEET
Pesticide/Herbicide

ASSIGNED TO: Linda 11?

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ALUMINA COLUMN START VOL	ALUMINA COLUMN FINAL VOL	DATE COMPT	COMMENTS
84992	152	UKswat	Alt	BS		30.00	1.1	—		—		2.8 ml		
84993	710	UKswat		BS		30.00	—			1.1				
84994		UKswat		SS	85001	30.58	—	0.9		1.1				279/194
84995		UKswat		SS	85001	30.33	—	0.9		1.1				
84986		UKswat	A SEDIMENT			30.89	1.1	0.9		1.1	1.0 ml	2.0 ml	5.14.86	
84990			B SEDIMENT			30.24	1.1	0.9		1.1	1.0	2.0	5.14	
85000			D SEDIMENT			30.41	1.1	0.9		1.1	1.0	2.0	5.14	
85001			E SEDIMENT			30.82	1.1	0.9		1.1	1.0	2.0	5.14	
85002			F SEDIMENT			30.45	1.1	0.9		1.1	1.0	2.0	5.14	
85003			G SEDIMENT			30.85	1.1	0.9		1.1	1.0	2.0	5.14	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5 ml			2.0 ml		
	LOT	17794			17686		
SPIKE	NO.		3012	2071			
	AMT.		1.0 ml	1.0 ml			
	LOT		17654	17777			

Blank 85102 / 85103 } on 9782 along w/other Surr
CASE — BW 05/14/86

MANUAL COUNTER 370 / 613

FINAL VOLUME VERIFIED L.A.P.

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY 5/13/86

POSTED 5-14-86

Acetone Lot # 309
Alumina Batch 5.13.86 AL

№ 978

EXTRACTION WORKSHEET

Pesticide/Herbicide

ASSIGNED TO: [illegible signature]

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

OKS

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ALUMINA COLUMN START VOL	ALUMINA COLUMN FINAL VOL	DATE COMPT	COMMENTS
85004	-7180	USWest	H-SEDIMENT NA			20.00	1.1			1.0	10ml	2.0ml	5-14-86	
85005	↓	UAS WEST ↓	C-SEDIMENT ↓			30.20	1.1			1.0	1.0	2.0	5-14	
85102				B		[illegible]	[illegible]			1.0	1.0ml	2.0ml	5-14-86	
85103	↓			BL		[illegible]	1.1			1.0	1.0	2.0	5-14	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			393		
	AMT.	0.5ml			2ml		
	LOT	12794			12686		
SPIKE	NO.						
	AMT.						
	LOT						

Added samples on # 9781 CASE ✓ BW 05/14/86

MANUAL COUNTER 570/613

FINAL VOLUME VERIFIED L.L.P.

SUPERVISOR REVIEWED [initials]

EXTRACTS RECEIVED BY BT 5/13/86

Acetone Lot # 309

Alumina Batch 5-13-86-AL

POSTED 5-14-86

№ 978

COMPUCHEM # 084986 FILE: GH084986C18 COMPOUND LIST 146 PAGE 1
VOLATILE - LOW LEVEL SOLID

JMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
234	128	I	BROMOCHLOROMETHANE (IS) <75	158	60500.	50.0		
221	50		CHLOROMETHANE <75-01-4> E5#				BDL	21.
220	94		BROMOMETMANE <78-83-9> E5#3				BDL	21.
231	62		VINYL CHLORIDE <75-01-4> E5				BDL	21.
209	64		CHLOROETHANE <75-00-3> E5#5				BDL	21.
222	84		METHYLENE CHLORIDE <75-09-2			11.5	25.	11.
252	43		ACETONE (2-PROPANONE) <67-6			41.3	58. B	21.
254	76		CARBON DISULFIDE <75-15-0>				BDL	11.
216	96		1,1-DICHLOROETHYLENE <75-35				BDL	11.
214	63		1,1-DICHLOROETHANE <75-34-3				BDL	11.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	11.
211	83		CHLOROFORM <67-66-3> E5#12			1.4-	JBDL	11.
215	62		1,2-DICHLOROETHANE <107-06-				BDL	11.
248	114	I	1,4-DIFLUOROBENZENE (IS) <5	400	234000.	50.0		
253	72		2-BUTANONE <78-93-3> E6#2				BDL	21.
227	97		1,1,1-TRICHLOROETHANE <71-5				BDL	11.
206	117		CARBON TETRACHLORIDE <56-23				BDL	11.
257	43		VINYL ACETATE <108-05-4> E6				BDL	21.
212	83		BROMODICHLOROMETHANE <75-27				BDL	11.
217	63		1,2-DICHLOROPROPANE <78-87-				BDL	11.
250	75		TRANS-1,3-DICHLOROPROPENE <				BDL	11.
229	130		TRICHLOROETHYLENE <79-01-6>				BDL	11.
208	129		CHLORODIBROMOMETHANE <124-4				BDL	11.
228	97		1,1,2-TRICHLOROETHANE <79-0				BDL	11.
203	78		BENZENE <71-43-2> E6#12				BDL	11.
218	75		CIS-1,3-DICHLOROPROPENE <10				BDL	11.
210	63		2-CHLOROETHYL VINYL ETHER <				BDL	21.
205	173		BROMOFORM <75-25-2> E6#15				BDL	11.
270	117	I	D5-CHLOROBENZENE (IS)	501	216000.	50.0		
256	43		4-METHYL-2-PENTANONE <108-1				BDL	21.
255	43		2-HEXANONE <591-78-6> E7#3				BDL	21.
224	164		TETRACHLOROETHENE <127-18-4				BDL	11.
223	83		1,1,2,2-TETRACHLOROETHANE <				BDL	11.
225	92		TOLUENE <108-88-3> E7#6				BDL	11.
207	112		CHLOROBENZENE <108-90-7> E7				BDL	11.
219	106		ETHYLBENZENE <100-41-4> E7#				BDL	11.
251	104		STYRENE <100-42-5> E7#9				BDL	11.
240	106		M-XYLENE E7#10				BDL	11.
271	106		O,P-XYLENE E7#11				BDL	11.
258	65	S	D4-1,2-DICHLOROETHANE E8#2			47.8	96.%	
247	95	B	BROMOFLUOROBENZENE <460-00-			47.7	95.%	
235	98	S	D8-TOLUENE E8#4			46.4	93.%	
CHECKSUMS:								
2175.	827			1089	510500.	346.1	397.	

VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE ES#2	47.8	50.0	96.	70-121	X	
41	247	BROMOFLUOROBENZENE <460-DO-	47.7	50.0	95.	74-121	X	
42	233	D8-TOLUENE ES#4	46.4	50.0	93.	81-117	X	

ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#1) BROMOCHLOROMETHANE > 10000 COUNTS	/	

CORRECTION FACTOR CALCULATION:

$$\frac{5.0\ G}{\text{WET WEIGHT OF SAMPLE (G)}} \times \text{OC/MS DILUTION FACTOR} \times \text{DRY WEIGHT FACTOR} =$$

$$\frac{5.0\ G}{5.07\ (G)} \times \frac{1.0}{} \times \frac{2.2}{} = 2.140$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG
494	152	I	D4-1,4-DICHLDROBENZENE (I8#	480	94000.	40.0		
610	94		PHENOL (G1#3) <108-95-2>				BDL	330.
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	330.
601	128		2-CHLOROPHENOL (G1#6) <95-5				BDL	330.
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	330.
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	330.
474	108		BENZYL ALCOHOL (G1#9) <100-				BDL	330.
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	330.
620	108		2-METHYLPHENOL (G1#11) <95-				BDL	330.
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	330.
622	108		4-METHYLPHENOL (G1#13) <106				BDL	330.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	330.
436	117		HEXACHLOROETHANE (G1#15) <6				BDL	330.
440	77		NITROBENZENE (G1#16) <98-95				BDL	330.
460	136	I	D8-NAPHTHALENE (IS#2)	595	359000.	40.0		
438	82		ISOPHORONE (G2#2) <78-59-1>				BDL	330.
606	139		2-NITROPHENOL (G2#3) <88-75				BDL	330.
603	122		2,4-DIMETHYLPHENOL (G2#4) <				BDL	330.
625	122		BENZOIC ACID (G2#5) <65-85-				BDL	1600.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	330.
602	162		2,4-DICHLOROPHENOL (G2#7) <				BDL	330.
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	330.
39	128		NAPHTHALENE (G2#9) <91-20-3				BDL	330.
475	127		4-CHLOROANILINE (G2#10) <10				BDL	330.
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	330.
608	107		P-CHLORO-M-CRESOL (G2#12) <				BDL	330.
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	330.
495	164	I	D10-ACENAPHTHENE (IS#3)	762	149000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	330.
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	330.
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	1600.
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	330.
478	65		2-NITROANILINE (G3#6) <88-7				BDL	1600.
425	163		DIMETHYL PHTHALATE (G3#7) <				BDL	330.
402	152		ACENAPHTHYLENE (G3#8) <208-				BDL	330.
479	138		3-NITROANILINE (G3#9) <99-0				BDL	1600.
401	153		ACENAPHTHENE (G3#10) <83-32				BDL	330.
605	184		2,4-DINITROPHENOL (G3#11) <				BDL	1600.
607	139		4-NITROPHENOL (G3#12) <100-				BOL	1600.
476	168		DIBENZOFURAN (G3#13) <132-6				BDL	330.
427	89		2,4-DINITROTOLUENE (G3#14)				BDL	330.
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	330.
424	149		DIETHYL PHTHALATE (G3#16) <				BDL	330.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	330.
432	166		FLUORENE (G3#18) <86-73-7>				BDL	330.
480	138		4-NITROANILINE (G3#19) <100				BDL	1600.
467	188	I	D10-PHENANTHRENE (IS#4)	903	212000.	40.0		
04	198		4,6-DINITRO-2-METHYLPHENOL				BDL	1600.
443	169		N-NITROSODIPHENYLAMINE (G4#				BDL	330.
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	330.
433	284		HEXACHLOROBENZENE (G4#5) <1				BDL	330.
609	266		PENTACHLOROPHENOL (G4#6) <8				BDL	1600.
444	178		PHENANTHRENE (G4#7) <85-01-				BDL	330.
			[illegible] (G4#8) <120-12-7				BDL	330.

SEMI-VOLATILE - LOW LEVEL SOLID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	330.
431	202		FLUORANTMENE (G4#10) <2D6-4				BDL	330.
459	240	I	D12-CHRYSENE (IS#5)	1165	152000.	40.0		
445	202		PYRENE (G5#3) <129-00-0>				d-PHL	330.
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	330.
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	660.
405	228		BENZO(A)ANTHRACENE (G5#6) <				BDL	330.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	330.
418	228		CHRYSENE (G5#8) <218-01-9>				BDL	330.
497	264	I	D12-PERYLENE (IS#6)	1397	154000.	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	330.
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	330.
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	330.
406	252		BENZO(A)PYRENE (G6#5) <50-3				BDL	330.
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	330.
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	330.
408	276		BENZO(G,H,I)PERYLENE (G6#6)				BDL	330.
619	112	S	2-FLUOROPHENOL (SS#1)			47.8	49.%	
612	99	S	D5-PHENOL (SS#2)			42.3	43.%	
447	82	S	D5-NITROBENZENE (SS#3)			22.7	46.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			26.4	54.%	
626	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			30.2	31.%	
496	244	S	D14-TERPHENYL (SS#6)			23.9	48.%	
471	212	S	D10-PYRENE			23.5	48.%	
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	33.
CHECKSUMS:								
7038.	2408			5302	1120000.	457.8	319.	

SEMI-VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
72	619	2-FLUOROPHENOL (SS#1)	~~47.8~~ 34.2	98.3	~~49~~ 35	26-121	X	
73	612	D5-PHENOL (SS#2)	~~42.3~~ 33.7	98.3	~~43~~ 34	24-113	X	
74	447	D5-NITROBENZENE (SS#3)	~~22.7~~ 17.1	49.2	~~46~~ 35	23-120	X	
75	448	2-FLUOROBIPHENYL (SS#4)	~~26.4~~ 24.2	49.2	~~54~~ 49	30-115	X	
76	628	2,4,6-TRIBROMOPHENOL (SS#5)	~~30.2~~ 26.3	98.3	~~31~~ 27	18-123	X	
77	496	D14-TERPHENYL (SS#6)	~~23.9~~ 23.2	49.2	~~48~~ 44	18-137	X	
78	471	D10-PYRENE	~~23.5~~ 20.0	49.2	~~48~~ 41	33-128*	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS	X	

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{SPLIT FACTOR (*)}} \times \frac{30.0\text{G}}{\text{AMOUNT EXTRACTED(G)}} \times \text{DRY WEIGHT FACTOR} \times \text{GC/MS DILUTION FACTOR} \times 33.3 =$$

$$\frac{0.9\text{ML}}{0.985} \times \frac{30.0\text{G}}{30.89\text{G}} \times \frac{2.17}{1.0} \times \frac{1.0}{1.0} \times 33.3 = \frac{71.4}{32.906}$$

* SPLIT FACTOR = (295/300)(9/10) IF PEST/TCDD VOLUMES ARE INDICATED ON LOG
= 1 IF PEST/TCDD VOLUMES ARE NOT INDICATED ON EXTRACTION LOG

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{\text{1000 UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{SPLIT FACTOR}} \times \text{GCMS DILUTION FACTOR} =$$

$$\frac{1000\text{ UL}}{500\text{ UL}} \times \frac{0.9\text{ML}}{0.985\text{ML}} \times \frac{1.0}{1.0} = 2.030$$

COMPOUND LIST NO. - 177

COMPUCHEM # 84986 DATE
IDENTIFIER PESTICIDES (LOW LEVEL SOLID)

DIL FACT_____DRY WT_____ _30__SPLIT_____FINAL VOL_____/5 = 2.11
AMT SAMPLE_____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/kg
1.	0701	ALDRIN		8.0
2.	0702	ALPHA-BHC		8.0
3.	0703	BETA-BHC		8.0
4.	0704	GAMMA-BHC		8.0
5.	0705	DELTA-BHC		8.0
6.	0706	TECHNICAL CHLORDANE		80.0
7.	0707	4,4'-DDT		16.0
8.	0708	4,4'-DDE	35	16.0
9.	0709	4,4'-DDD		16.0
10.	0710	DIELDRIN		16.0
11.	0711	ENDOSULFAN I		8.0
12.	0712	ENDOSULFAN II		16.0
13.	0713	ENDOSULFAN SULFATE		16.0
14.	0714	ENDRIN		16.0
15.	0739	ENDRIN KETONE		16.0
16.	0716	HEPTACHLOR		8.0
17.	0717	HEPTACHLOR EPOXIDE		8.0
18.	0726	METHOXYCHLOR		80.0
19.	0724	AROCHLOR 1016		80.0
20.	0720	AROCHLOR 1221		80.0
21.	0721	AROCHLOR 1232		80.0
22.	0718	AROCHLOR 1242		80.0
23.	0722	AROCHLOR 1248		80.0
24.	0719	AROCHLOR 1254		160.0
25.	0723	AROCHLOR 1260		160.0
26.	0725	TOXAPHENE		160.0

BDL

BDL

ANALYST'S COMMENTS:

DDE not reported due to client request

GC SCREEN DATA SHEET

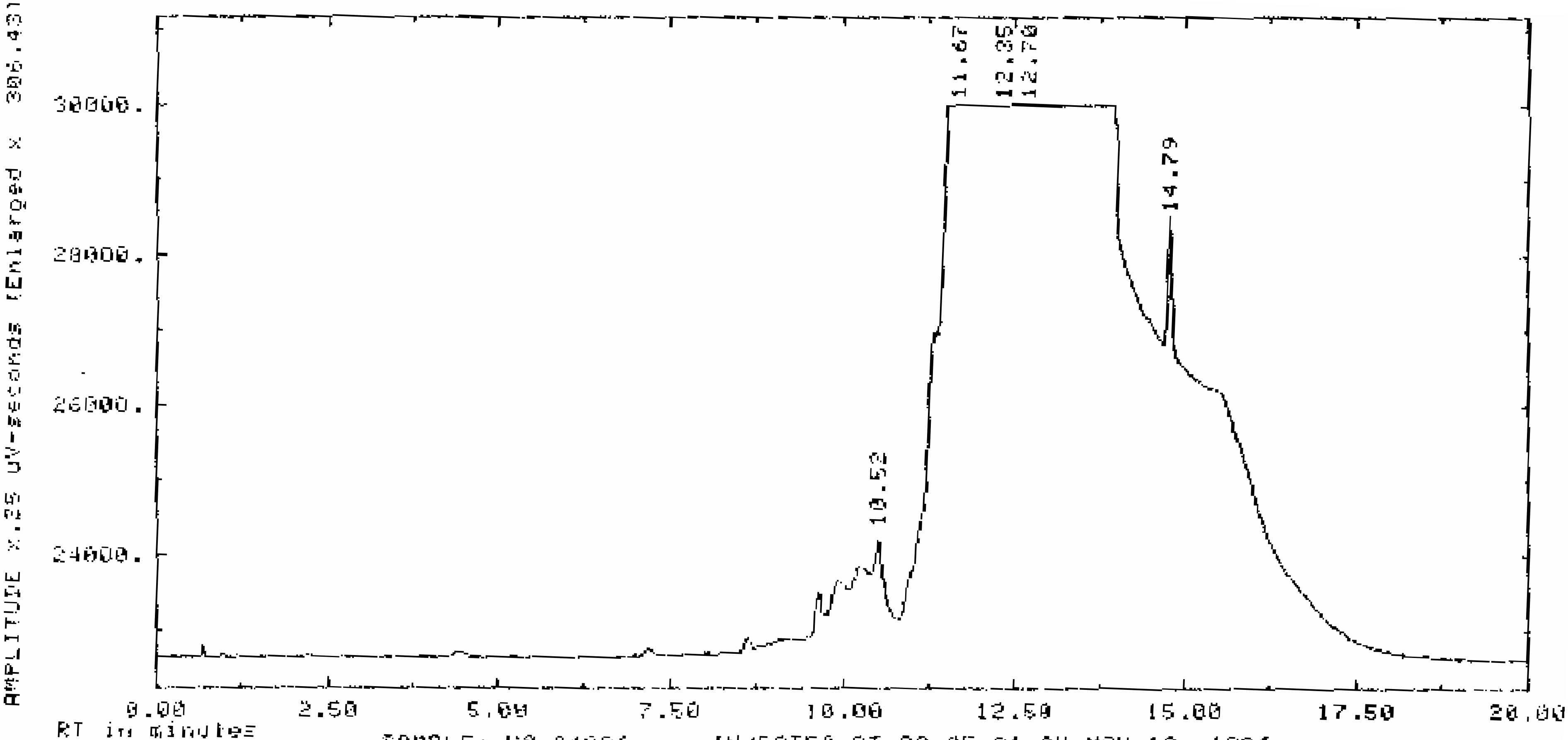
Laboratory Name CompuChem

Case Number UPS WEST

Sample ID Number	Fraction	GC Detectable* Medium Level	Date of Screen	Level of GC/MS Analysis**
A - SEDIMENT	VOA	NO	5/13/96	L
	B/N/A	NO	5/15/96	L
	Pesticides			
	Dioxin			
84986				
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			

*Answer Yes or No

**Indicate "M" for Medium Level GC/MS analysis.
Indicate "L" for Low Level GC/MS analysis.



SAMPLE: VS 04986 INJECTED AT 22:25:01 ON MAY 13, 1986
Method: HEXA12 Raw: R12750 Proc: P12750

Report: 99.00 Channel: 12

Sample: VS 84986 Injected at 22:25:01 ON MAY 13, 1986

ZERO Method: HEXA12 Seq: SEQ127 Subsq/Samp: 1/50 Bll: 50

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	100	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-F	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 20.017 minutes

Signal > 1 volt

RT	ITM	Factor	Area		AREA %	Name
10.52	0.00	.10000E+01	13867.	BH	.034	
11.67	0.00	.10000E+01	115335.	HH	.279	
12.35	0.00	.10000E+01	21222588.	HH	51.354	
12.70	0.00	.10000E+01	19970896.	HS	48.325	
14.79	0.00	.10000E+01	3613.	VB	.009	

Total Area = 41326304. Total AREA % = 3613.063

Processed data file: P12750 Raw data file: R12750

PLIST7

SCREEN WORKSHEET

Compound # 84986

Sample Prep Code-153_

Instrument Code__122__

ANALYSIS INFORMATION

COMMENT: L

Date	Inst	File Name	Dilution Fact.
5/15	6	P6378	1
___	___	_____	___

Analyst 865 Date 5/16/86

RESULTS

Area of Sung Phenanthrene 16047

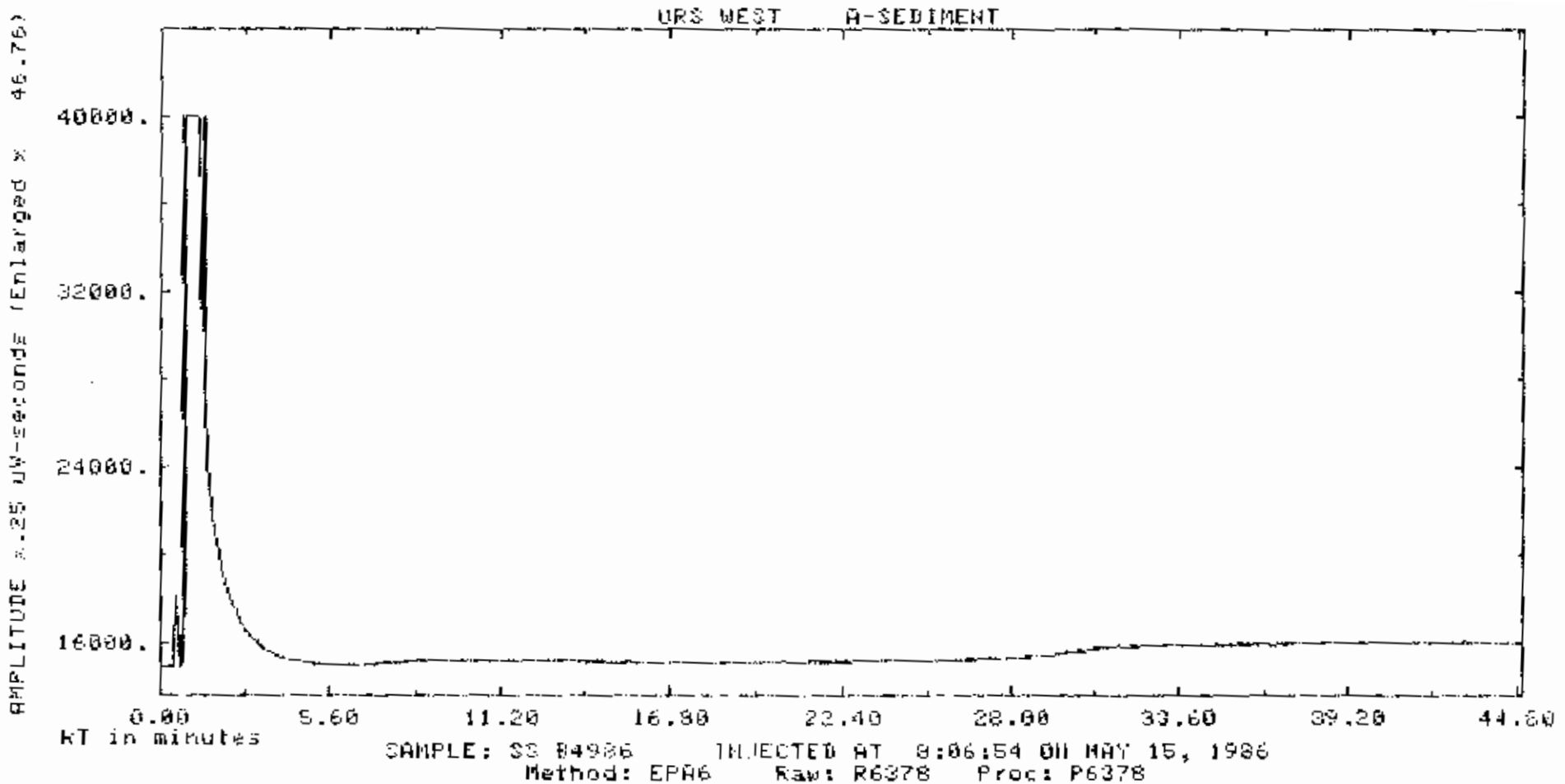
Area of Largest peak in sample 0

Phenanthrene / Largest Peak = ∞

[X] Ratio > 5.0 Analyze low level extract
Suggested dilution for GC/MS analysis 1:___ (up to 1:5)

[ ] Ratio < 5.0 Prepare medium level extract
Schedule Analysis code 301 and 304
Suggested dilution for GC/MS analysis 1:___

rev 7/15/8


URS WEST A-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 46.76)
40000.
32000.
24000.
16000.
0.00
5.60
11.20
16.80
22.40
28.00
33.60
39.20
44.80
RT in minutes
SAMPLE: SS 84986 INJECTED AT 8:06:54 ON MAY 15, 1986
Method: EPA6 Raw: R6378 Proc: P6378

Report: 88.00 Channel: 6 URS WEST A-SEDIMENT

Sample: SS 84986 Injected at 8:06:54 ON MAY 15, 1986

ZERO Method: EPA6 Seq: SEQ63 Subsq/Samp: 1/78 Btl: 78

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.259	.300	3.00	1000	

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 45.008 minutes

No peaks integrated

RT	ITM	Factor	Area	AREA %	Name

Total Area = 0. Total AREA % = 0.000

Processed data file: P6378 Raw data file: R6378

(1)

III. SAMPLE DATA PACKAGE

CASE NO. URS ~~WEST~~ May 1986

SAMPLE NO. C-SEDIMENT = COMPUCHEM NO. 95005

Site No. 1

A. Sample data in increasing SMO Number order:

1. Copy of Sample Traffic Report
2. HSL Results — Organic Analysis Data Sheet (Form I)
3. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.
4. Raw Data — in order: VOA, BNA, Pesticide

1. Copy of Sample Traffic Report

2. HSL Results — Organic Analysis Data Sheets (Form I)

Sample Number
C-SEDIMENT

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: BH085005B18
Sample matrix: solid
Data Release
Authorized By: _____

Case: URS WEST
QC Report No: _____
Contract No: PLATINUM
Date Sample
Received: 05-12-86

Volatile Compounds
Concentration: low
Date extracted/prepared: 05-13-86
Date analyzed: 05-15-86
Conc/Dil Factor: 2.13 pH: 7.71
Percent moisture (not decanted): 54%

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	21.	U	10061-02-6	trans-1,3-Dichloropropene	11.	U
74-83-9	Bromomethane	21.	U	79-01-6	Trichloroethene	11.	U
75-01-4	Vinyl Chloride	21.	U	124-48-1	Dibromochloromethane	11.	U
75-00-3	Chloroethane	21.	U	79-00-5	1,1,2-Trichloroethane	11.	U
75-09-2	Methylene Chloride	11.		71-43-2	Benzene	11.	U
67-64-1	Acetone	160	B	10061-01-5	cis-1,3-Dichloropropene	11.	U
75-15-0	Carbon Disulfide	11.	U	110-75-8	2-Chloroethyl Vinyl Ether	21.	U
75-35-4	1,1-Dichloroethene	11.	U	75-25-2	Bromoform	11.	U
75-34-3	1,1-Dichloroethane	11.	U	108-10-1	4-Methyl-2-pentanone	21.	U
156-60-5	trans-1,2-Dichloroethene	11.	U	591-78-6	2-Hexanone	21.	U
67-66-3	Chloroform	5.5	J	127-18-4	Tetrachloroethene	11.	U
107-06-2	1,2-Dichloroethane	11.	U	79-34-5	1,1,2,2-Tetrachloroethane	11.	U
78-93-3	2-Butanone	21.	U	108-88-3	Toluene	11.	U
71-55-6	1,1,1-Trichloroethane	11.	U	108-90-7	Chlorobenzene	11.	U
56-23-5	Carbon Tetrachloride	11.	U	100-41-4	Ethyl Benzene	11.	U
108-05-4	Vinyl Acetate	21.	U	100-42-5	Styrene	11.	U
75-27-4	Bromodichloromethane	11.	U		Total Xylenes	11.	U
78-87-5	1,2-Dichloropropane	11.	U				

DATA REPORTING QUALIFIERS

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

Value If the result is a value greater than or equal to the detection limit then report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10ug and a concentration of 3ug is calculated, then report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: CompuChem
Use : URS WEST

Sample Number
C-SEDIMENT

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: low
Date extracted/prepared: 05-13-86
Date analyzed: 05-22-86
Conc/Dil Factor: 73.10
Percent moisture (decanted): 54%

GPC Cleanup: No
Separatory Funnel Extraction: Yes
Continuous Liquid - Liquid Extraction: No

CAS Number		ug/kg		CAS Number		ug/kg		
108-95-2	Phenol	730	U	83-32-9	Acenaphthene	730	U	
111-44-4	bis(2-Chloroethyl) ether	730	U	51-28-5	2,4-Dinitrophenol	3600	U	
95-57-8	2-Chlorophenol	730	U	100-02-7	4-Nitrophenol	3600	U	
541-73-1	1,3-Dichlorobenzene	730	U	132-64-9	Dibenzofuran	730	U	
106-46-7	1,4-Dichlorobenzene	730	U	121-14-2	2,4-Dinitrotoluene	730	U	
100-51-6	Benzyl Alcohol	730	U	606-20-2	2,6-Dinitrotoluene	730	U	
95-50-1	1,2-Dichlorobenzene	730	U	84-66-2	Diethylphthalate	730	U	
95-48-7	2-Methylphenol	730	U	7005-72-3	4-Chlorophenyl Phenyl ether	730	U	
39638-32-9	bis(2-Chloroisopropyl) ether	730	U	86-73-7	Fluorene	730	U	
106-44-5	4-Methylphenol	730	U	100-01-6	4-Nitroaniline	3600	U	
621-64-7	N-Nitroso-Dipropylamine	730	U	534-52-1	4,6-Dinitro-2-methylphenol	3600	U	
67-72-1	Hexachloroethane	730	U	86-30-6	N-nitrosodiphenylamine (1)	730	U	
98-95-3	Nitrobenzene	730	U	101-55-3	4-Bromophenyl Phenyl ether	730	U	
78-59-1	Isophorone	730	U	118-74-1	Hexachlorobenzene	730	U	
88-75-5	2-Nitrophenol	730	U	87-86-5	Pentachlorophenol	3600	U	
105-67-9	2,4-Dimethylphenol	730	U	85-01-8	Phenanthrene	340	J	*
65-85-0	Benzoic Acid	3600	U	120-12-7	Anthracene	730	U	
111-91-1	bis(2-Chloroethoxy) methane	730	U	84-74-2	Di-n-butylphthalate	730	U	
120-83-2	2,4-Dichlorophenol	730	U	206-44-0	Fluoranthene	610	J	*
120-82-1	1,2,4-Trichlorobenzene	730	U	129-00-0	Pyrene	560	J	*
91-20-3	Naphthalene	730	U	85-68-7	Butyl Benzyl Phthalate	730	U	
106-47-8	4-Chloroaniline	730	U	91-94-1	3,3'-Dichlorobenzidine	1500	U	
87-68-3	Hexachlorobutadiene	730	U	56-55-3	Benzo(a)anthracene	260	J	*
59-50-7	4-Chloro-3-methylphenol	730	U	117-81-7	bis(2-ethylhexyl)phthalate	73.	J	*
91-57-6	2-Methylnaphthalene	730	U	218-01-9	Chrysene	~~260~~	~~J~~	290 J *
77-47-4	Hexachlorocyclopentadiene	730	U	117-84-0	Di-n-octyl Phthalate	730	U	
88-06-2	2,4,6-Trichlorophenol	730	U	205-99-2	Benzo(b)fluoranthene	~~140~~	~~J~~	260 J II *
95-95-4	2,4,5-Trichlorophenol	3600	U	207-08-9	Benzo(k)fluoranthene	~~120~~	~~J~~	260 J II *
91-58-7	2-Chloronaphthalene	730	U	50-32-8	Benzo(a)pyrene	120	J	*
88-74-4	2-Nitroaniline	3600	U	193-39-5	Indeno(1,2,3-cd)pyrene	730	U	
131-11-3	Dimethyl Phthalate	730	U	53-70-3	Dibenz(a,h)anthracene	730	U	
208-96-8	Acenaphthylene	730	U	191-24-2	Benzo(g,h,i)perylene	730	U	
99-09-2	3-Nitroaniline	3600	U					

(1) Cannot be separated from diphenylamine

II indistinguishable isomers

Sample Number
C-SEDIMEN

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: [Low] Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Data Analyzed: 05/22/86
Conc/Dil Factor: 2.16

CAS Number		ug/l or [ug/Kg] (Circle One)	
319-84-6	Alpha - BHC	17.	U
319-85-7	Beta - BHC	17.	U
319-86-8	Delta - BHC	17.	U
58-89-9	Gamma - BHC(Lindane)	17.	U
76-44-8	Heptachlor	17.	U
309-00-2	Aldrin	17.	U
1024-57-3	Heptachlor Epoxide	17.	U
959-98-8	Endosulfan I	17.	U
60-57-1	Dieldrin	34.	U
72-55-9	4-4' - DDE	34.	U
72-20-8	Endrin	34.	U
33213-65-9	Endosulfan II	34.	U
72-54-8	4-4' - DDD	34.	U
1031-07-8	Endosulfan Sulfate	34.	U
50-29-3	4-4' - DDT	34.	U
72-43-5	Methoxychlor	170	U
53494-70-5	Endrin Ketone	34.	U
57-74-9	Chlordane	170	U
8001-35-2	Toxaphene	340	U
12674-11-2	Aroclor - 1016	170	U
11104-28-2	Aroclor - 1221	170	U
11141-16-5	Aroclor - 1232	170	U
53469-21-9	Aroclor - 1242	170	U
12672-29-6	Aroclor - 1248	170	U
11097-69-1	Aroclor - 1254	340	U
11096-82-5	Aroclor - 1260	340	U

V(i) = Volume of extract injected (ul)
V(w) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(w) _____ or W(s) 30.20 V(t) 2000.00 V(i) 1.0

Sample Number
C-SEDIMEN

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: [Low] Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Data Analyzed: 05/16/86
Conc/Dil Factor: 2.16

CAS Number		ug/l or [ug/Kg] (Circle One)	
319-84-6	Alpha - BHC	17.	U
319-85-7	Beta - BHC	17.	U
319-86-8	Delta - BHC	17.	U
58-89-9	Gamma - BHC(Lindane)	17.	U
76-44-8	Heptachlor	17.	U
309-00-2	Aldrin	17.	U
1024-57-3	Heptachlor Epoxide	17.	U
959-98-8	Endosulfan I	17.	U
60-57-1	Dieldrin	34.	U
72-55-9	4-4' - DDE	34.	U
72-20-8	Endrin	34.	U
33213-65-9	Endosulfan II	34.	U
72-54-8	4-4' - DDD	34.	U
1031-07-8	Endosulfan Sulfate	34.	U
50-29-3	4-4' - DDT	34.	U
72-43-5	Methoxychlor	170	U
53494-70-5	Endrin Ketone	34.	U
57-74-9	Chlordane	170	U
8001-35-2	Toxaphene	340	U
12674-11-2	Aroclor - 1016	170	U
11104-28-2	Aroclor - 1221	170	U
11141-16-5	Aroclor - 1232	170	U
53469-21-9	Aroclor - 1242	170	U
12672-29-6	Aroclor - 1248	170	U
11097-69-1	Aroclor - 1254	340	U
11096-82-5	Aroclor - 1260	340	U

V(i) = Volume of extract injected (ul)
V(s) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(s) _____ or W(s) 30.20 V(t) 2000.00 V(i) 5.0

Form 1

3. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found; if so, indicate on form, "No volatile compounds found" and/or "no semi-volatile compounds found.")

Laboratory Name: CompuChem Laboratories

Case No: UBS WEST

Sample Number: C-SEDIMENT

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOLATILE COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SAMPLE NUMBER C-SED

COMPUCHEM FILE GJ085005A15

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)		
1	5343-96-4	substituted alkane 2-BUTANOL, 3-METHYL-, ACETATE	SEMI2	477	410.	J	890.
2	1121-66-0	D3 Amit 2-CYCLOHEPTEN-1-ONE	SEMI2	700	910.	J	
3	10544-50-0	sulfur SULFUR, MOL. (S8)	SEMI2	796	370.	J	
4	577-27-5	unknown 1H-CYCLOPROP[E]AZULEN-4-OL, DECAHYDRO-1,1,4,7-TETRAM	SEMI2	835	250.	J	
5	544-76-3	alkane HEXADECANE	SEMI2	842	290.	J	
6?	74645-98-0	substituted alkane DODECANE, 2,7,10-TRIMETHYL-	SEMI2	868	1000.	J	2200.
7	3913-02-8	" 1-OCTANOL, 2-BUTYL-	SEMI2	889	250.	J	
8	62238-14-6	" DECANE, 2,3,8-TRIMETHYL-	SEMI2	907	360.	J	
9?	74645-98-0	" DODECANE, 2,7,10-TRIMETHYL-	SEMI2	914	1100.	J	2400.
10	18450-74-3	" 1-HEPTANOL, 2,4-DIMETHYL-, (2S,4R)-(-)-	SEMI2	930	170.	J	
11?	544-76-3	" HEXADECANE	SEMI2	949	1600.	J	3500.
12	56292-65-0	" DODECANE, 2,5-DIMETHYL-	SEMI2	958	210.	J	
13	21078-65-9	" 1-DECANOL, 2-ETHYL-	SEMI2	968	210.	J	

33,700 40.00

13.1

SPECTROSCOPIST L Fowler

DATE 5/26/86

FORM1, PART

SAMPLE NUMBER C-SED

ORGAHICS ANALYSIS DATA SHEET (PACE 4)

COMPUCHEM FILE GJ08500SA15

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)		
~~14~~ 5	57-10-3	HEXADECANDIC ACID HC	SEMI2	974	~~1200.~~	J	2600.
~~15~~ 6	630-02-4	OCTACOSANE HC	SEMI2	985	~~1400.~~	J	3000.
~~16~~ 7	17301-30-3	UNDECANE, 3,8-DIMETHYL- substituted alkane	SEMI2	991	~~520.~~	J	1100.
~~17~~ 8	20576-57-2	2,10-DODECADIEN-1-OL, 3,7,11-TRIMETHYL-, (Z)- unknown	SEMI2	998	~~1300.~~	J	2800.
~~18~~ 9	55320-58-6	HEXANAL, 5,5-DIMETNYL- "	SEMI2	1006	~~1200.~~	J	2600.
~~19~~ 10	26891-70-3	PYRIDINE, 2-(OCTYLTHIO)- "	SEMI2	1017	~~730.~~	J	1600.
~~20~~ 11	29812-79-1	HYDROXYLAMINE, O-DECYL- HC	SEMI2	1022	~~1300.~~	J	2800.
21	~~129-00-0~~	PYRENE PP mix	SEMI2	1043	~~310.~~	J	
~~22~~ 13	2490-48-4	1-HEXADECANOL, 2-METHYL- HC	SEMI2	1167	~~2100.~~	J	4600.
~~23~~ 13	74764-11-7	IRON, TRICARBONYLIN-(PHENYL-2-PYRIDINYLMETHYLENE)BEN HC	SEMI2	1242	~~5400.~~	J	12000
~~24~~ 14	638-66-4	OCTADECANAL HC	SEMI2	1311	~~1400.~~	J	3000
~~25~~ 15	74764-11-7	IRON, TRICARBONYLIN-(PHENYL-2-PYRIDINYLMETHYLENE)BEN HC	SEMI2	1343	~~11000.~~	J	24000
~~26~~ 16	62337-96-6	CYCLOHEXANE, 1,1,2-TRIMETHYL-3,5-BIS(1-METHYLETHENYL unknown	SEMI2	1797	~~4900.~~	J	11000

~~33,700~~ 73.1 40.00

SPECTROSCOPIST L Gruber

DATE 5/26/86

FORM1. PART

SAMPLE NUMBER C-SED

CONPUCHEM FILE GJ085005A15

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
27	83-47-6	STIGMAST-5-EN-3-OL, (3.BETA.,24S)- unknown	SEMI2	1803	~~7400.~~	J 16000
28	56772-07-7	2-CYCLOHEXENE-1-CARBOXALDEHYDE, 2,6-DIMETHYL-6-(4-ME "	SEMI2	1833	~~19000.~~	J 41000
29	25615-11-5	A'-NEOGAMMACER-22(29)-EN-3-ONE "	SEMI2	1851	~~6700.~~	J 15000
30	17520-57-9	1-OXA-2,4,6-TRISILACYCLOHEXANE, 2,2,4,4,6,6-HEXAMETH "	SEMI2	1873	~~4400.~~	J 9500

~~33.700~~ 73.1 40.00

SPECTROSCOPIST LGowler

DATE ~~5/26/86~~

(17)	3713-02-8	Substituted Alkane	SEMI2	887	~~540 J~~	1200 J
(18)	6246-14-6	"	SEMI2	907	~~780 J~~	1700 J
(11)	18458-22-3	"	SEMI2	750	~~370 J~~	800 J
(21)	56292-65-0	"	SEMI2	958	~~460 J~~	870 J

4. **Raw Data — In order: VOA, BNA, Pesticides**

a. Reconstructed ion chromatogram(s) (GC/MS), chromatograms(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)
- Calibration plots (area vs. Concentration) for 4,4'-DDT, 4,4'-DDD, 4,4'-DDE, or toxaphene (where appropriate)

c. Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

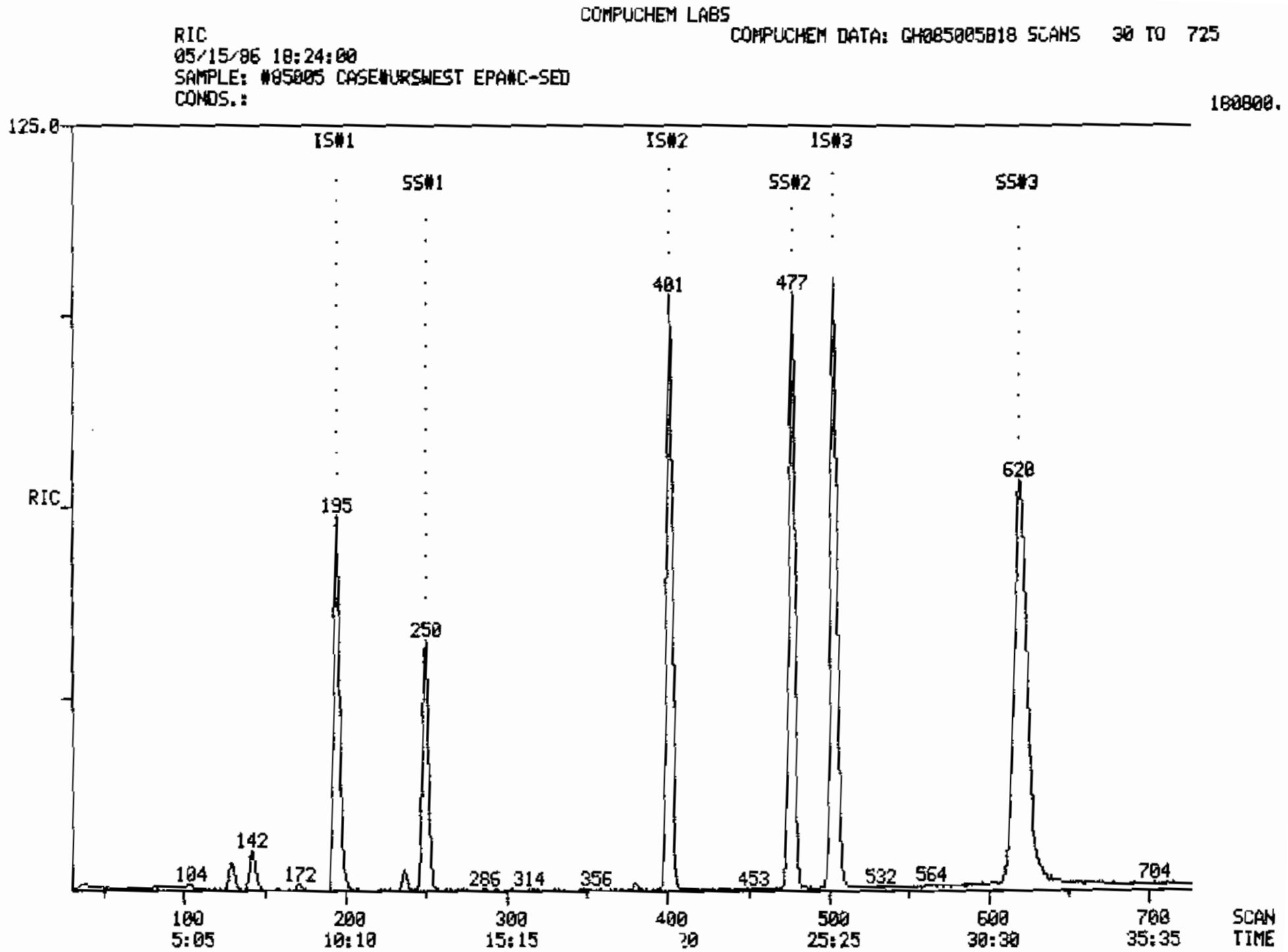
d. GC/MS library search spectra for Tentatively Identified Compounds (TIC)

e. Quantitation Calculation of tentative ID concentrations

f. Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g. Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GH085005B18 SCANS 30 TO 725
05/15/86 18:24:00
SAMPLE: #05005 CASE#URSWEST EPA#C-SED
CONDS.:
180800.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
401
477
620
RIC
195
250
142
104
172
286
314
356
453
532
564
704
100
5:05
200
10:10
300
15:15
400
20
500
25:25
600
30:30
700
35:35
SCAN
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: E238 FILENAME: GH085005B18 DATE: 05/15/86
SHIFT STD: GT860515A18 TIME: 18:24

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1	56520.	56744.	-0.	PASS
*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E6#1	227991.	241821.	-6.	PASS
*270 D5-CHLOROBENZENE (IS)	214361.	236805.	-9.	PASS

QUANTITATION REPORT FILE: GH085005B18

DATA: GH085005B18.TI
05/15/86 16:24:00
SAMPLE: #85005 CASE#URSWEST EPA#C-SED
COMMENTS:
SUBMITTED BY: 18 ANALYST: 941

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1
2	221 CHLOROMETHANE <75-01-4> E5#2
3	220 BROMOMETHANE <78-83-9> E5#3
4	231 VINYL CHLORIDE <75-01-4> E5#4
5	209 CHLOROETHANE <75-00-3> E5#5
6	222 METHYLENE CHLORIDE <75-09-2> E5#6
7	252 ACETONE (2-PROPANONE) <67-64-1> E5#7
8	254 CARBON DISULFIDE <75-15-0> E5#8
9	216 1,1-DICHLOROETHYLENE <75-35-4> E5#9
10	214 1,1-DICHLOROETHANE <75-34-3> E5#10
11	226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E5#11
12	211 CHLOROFORM <67-66-3> E5#12
13	215 1,2-DICHLOROETHANE <107-06-2> E5#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E6#1
15	253 2-BUTANONE <78-93-3> E6#2
16	227 1,1,1-TRICHLOROETHANE <71-55-6> E6#3
17	206 CARBON TETRACHLORIDE <56-23-5>
18	257 VINYL ACETATE <108-05-4> E6#5
19	212 BROMODICHLOROMETHANE <75-27-4> E6#6
20	217 1,2-DICHLOROPROPANE <78-87-5> E6#7
21	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E6#8
22	229 TRICHLOROETHYLENE <79-01-6> E6#9
23	208 CHLORODIBROMOMETHANE <124-48-1> E6#10
24	228 1,1,2-TRICHLOROETHANE <79-00-5> E6#11
25	203 BENZENE <71-43-2> E6#12
26	218 CIS-1,3-DICHLOROPROPENE <10061-01-5> E6#13
27	210 2-CHLOROETHYL VINYL ETHER <110-75-8> E6#14
28	205 BROMOFORM <75-25-2> E6#15
29	*270 D5-CHLOROBENZENE (IS)
30	256 4-METHYL-2-PENTANONE <108-10-1> E7#2
31	255 2-HEXANONE <591-78-6> E7#3
32	224 TETRACHLOROETHENE <127-18-4> E7#4
33	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E7#5
34	225 TOLUENE <108-88-3> E7#6
35	207 CHLOROBENZENE <108-90-7> E7#7
36	219 ETHYLBENZENE <100-41-4> E7#8
37	251 STYRENE <100-42-5> E7#9
38	240 M-XYLENE E7#10
39	271 O,P-XYLENE E7#11
40	#256 D4-1,2-DICHLOROETHANE E8#2
41	#247 BROMOFLUOROBENZENE <460-00-4> E8#3
42	#233 D8-TOLUENE E8#4

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	194	9:52	1	1.000	A BB	56520.	50.000 UG/KG	13.03
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	130	6:36	1	0.670	A BB	6212.	5.320	UG/KG	1.39
7	43	142	7:13	1	0.732	A BB	28044.	75.209	UG/KG	19.60
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	237	12:03	1	1.222	A BB	6466.	2.583	UG/KG	0.67
13	62	NOT FOUND								
14	114	401	20:23	14	1.000	A BB	227991.	50.000	UG/KG	13.03
15	72	251	12:46	14	0.626	A BB	1256.	10.171	UG/KG	2.65
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	NOT FOUND								
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	503	25:34	29	1.000	A BB	214361.	50.000	UG/KG	13.03
30	43	NOT FOUND								
31	43	NOT FOUND								
32	164	NOT FOUND								
33	83	NOT FOUND								
34	92	NOT FOUND								
35	112	NOT FOUND								
36	106	NOT FOUND								
37	104	NOT FOUND								
38	106	NOT FOUND								
39	106	NOT FOUND								
40	65	250	12:42	1	1.289	A BB	80266.	45.785	UG/KG	11.93
41	95	620	31:31	29	1.233	A BB	161577.	47.787	UG/KG	12.45
42	98	477	24:15	1	2.459	A BV	199895.	46.852	UG/KG	12.21

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:49	1.01	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:35		10.000			50.00		0.686	
3	2:32		10.000			50.00		1.194	
4	3:18		10.000			50.00		0.685	
5	4:13		10.000			50.00		0.440	
6	6:27	1.02	5.000	0.13	5.32	50.00	0.110	1.033	0.11
7	7:07	1.01	10.000	0.07	75.21	50.00	0.496	0.330	1.50
8	8:05		5.000			50.00		2.315	
9	9:21		5.000			50.00		0.916	
10	10:40		5.000			50.00		1.553	
11	11:23		5.000			50.00		1.033	
12	12:00	1.00	5.000	0.24	2.58	50.00	0.114	2.214	0.05
13	12:46		5.000			50.00		1.623	
14	20:26	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

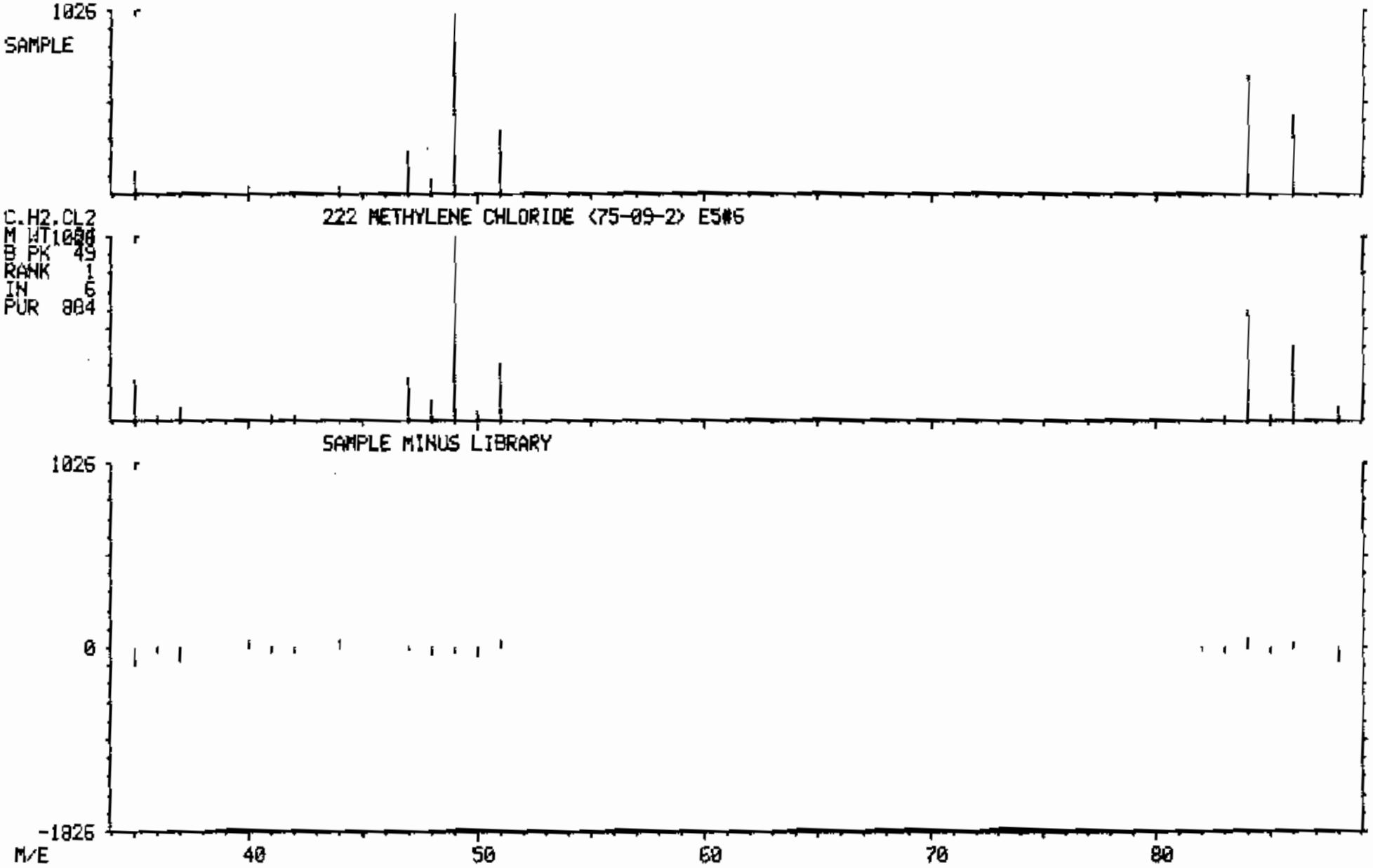
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:39	1.01	10.000	0.06	10.17	50.00	0.006	0.027	0.20
16	14:05		5.000			50.00		0.463	
17	14:29		5.000			50.00		0.603	
18	14:38		10.000			50.00		0.274	
19	15:00		5.000			50.00		0.527	
20	16:25		5.000			50.00		0.279	
21	16:40		5.000			50.00		0.405	
22	17:14		5.000			50.00		0.440	
23	17:54		5.000			50.00		0.612	
24	18:00		5.000			50.00		0.299	
25	17:47		5.000			50.00		0.662	
26	18:00		5.000			50.00		0.303	
27	19:07		10.000			50.00		0.193	
28	20:38		5.000			50.00		0.486	
29	25:34	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:09		10.000			50.00		0.483	
31	22:46		10.000			50.00		0.351	
32	23:05		5.000			50.00		0.459	
33	23:02		5.000			50.00		0.547	
34	24:27		5.000			50.00		0.525	
35	25:43		5.000			50.00		0.839	
36	28:13		5.000			50.00		0.421	
37	33:36		5.000			50.00		1.006	
38	34:00		5.000			50.00		0.637	
39	35:23		5.000			100.00		0.611	
40	12:39	1.00	10.000	0.13	45.79	50.00	1.420	1.551	0.92
41	31:34	1.00	10.000	0.12	47.79	50.00	0.754	0.789	0.96
42	24:15	1.00	10.000	0.25	46.85	50.00	3.537	3.774	0.94

COMPUCHEM LABS

LIBRARY SEARCH
05/15/86 10:24:00 + 6:36
SAMPLE: #05005 CASE#URSWEST EPA#C-SED
ENHANCED (S 150 2N 0T)

DATA: GH005005B10 # 130

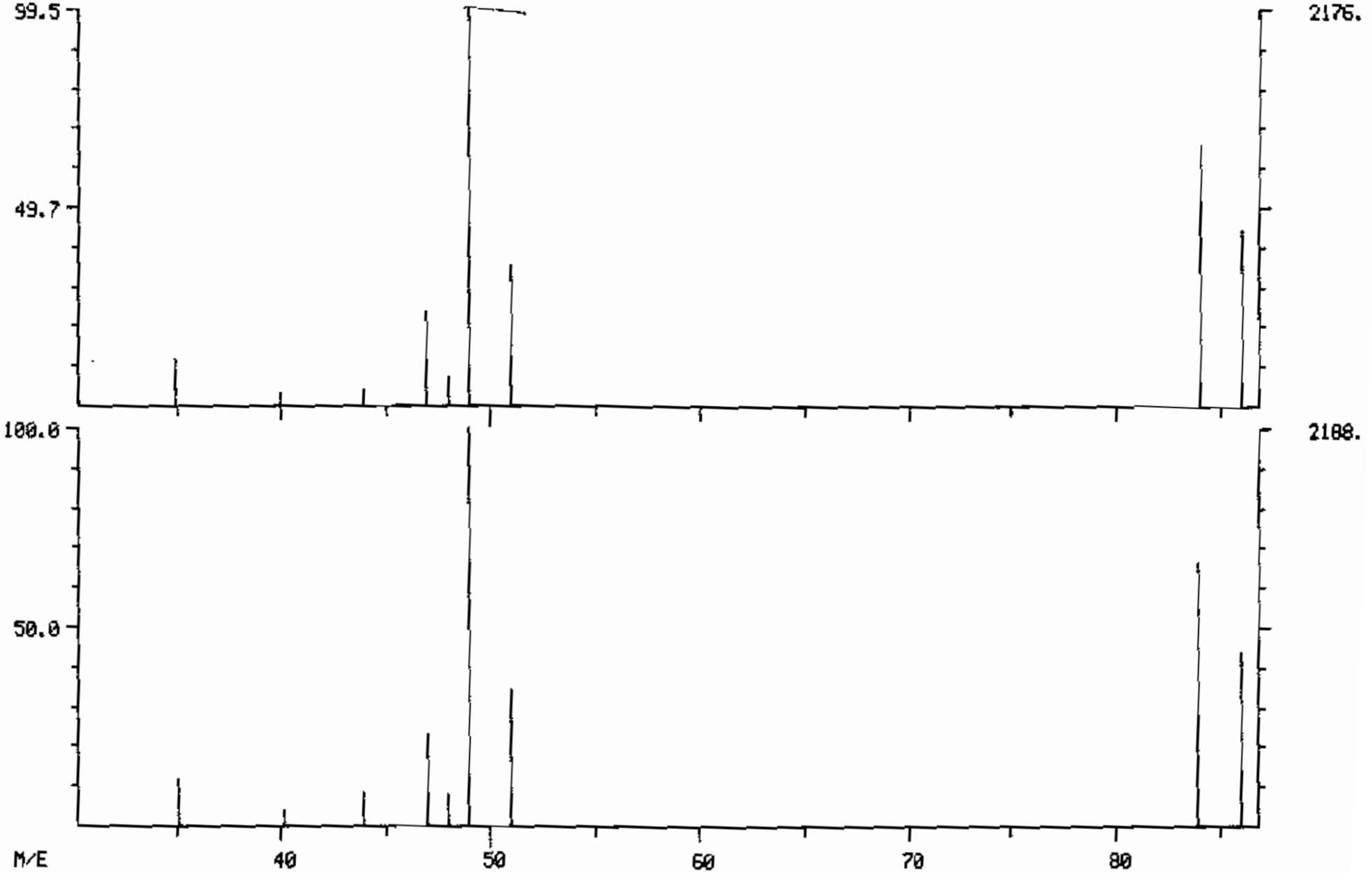
BASE M/E: 49
RIC: 6423.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/15/86 18:24:00 + 6:36
SAMPLE: #65005 CASE#URSWEST EPA#C-SED
ENHANCED (S 158 2N) 222 METHYLENE CHLORIDE <75-09-2> E5#6

DATA: GH065005B18 #130 BASE M/E: 49/ 49
RIC: 6423./ 6543.

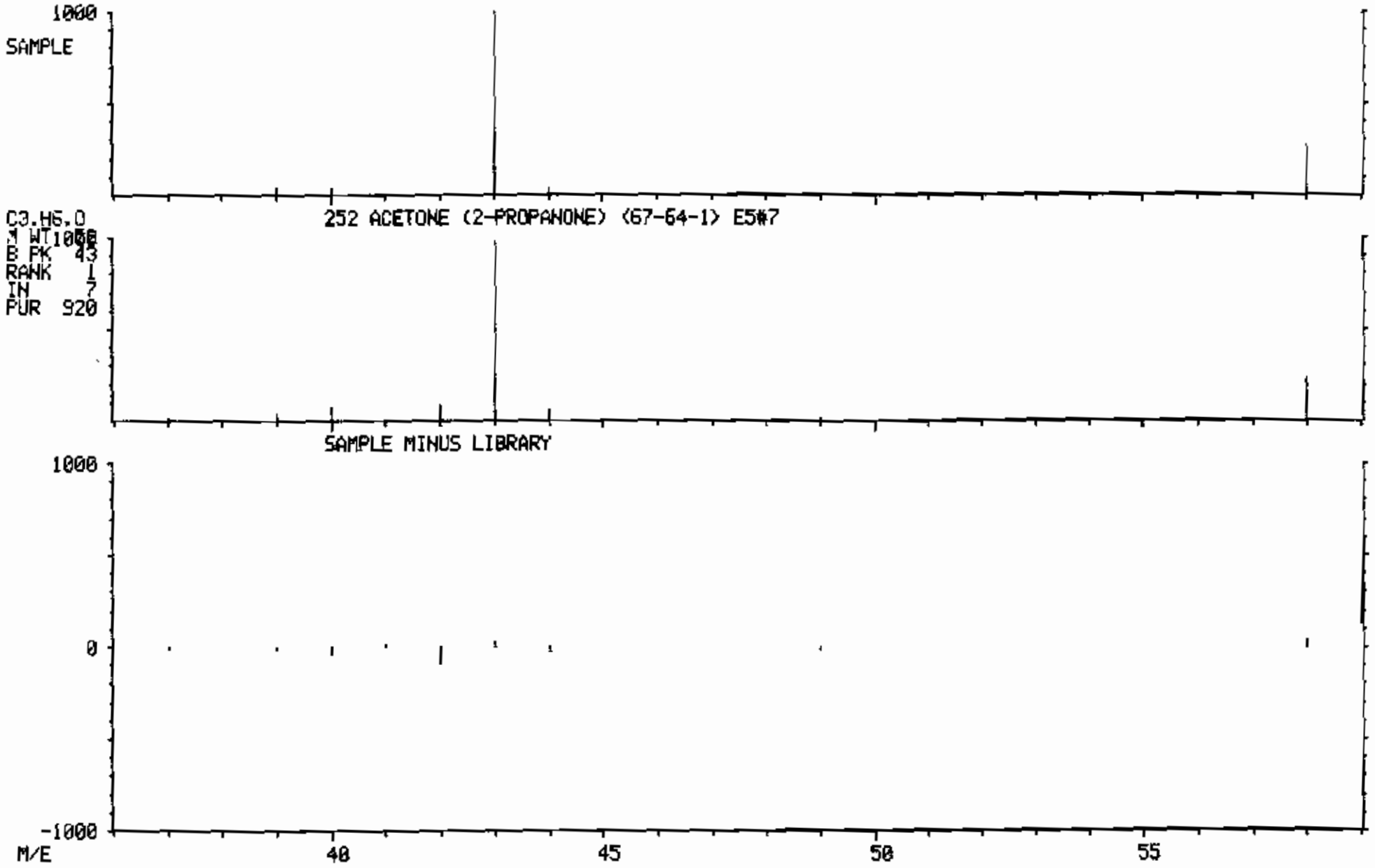


COMPUCHEM LABS

LIBRARY SEARCH
05/15/86 10:24:00 + 7:13
SAMPLE: #85005 CASE#URSWEST EPA#C-SED
ENHANCED (S 15B 2N 0T)

DATA: GH085005B10 # 142

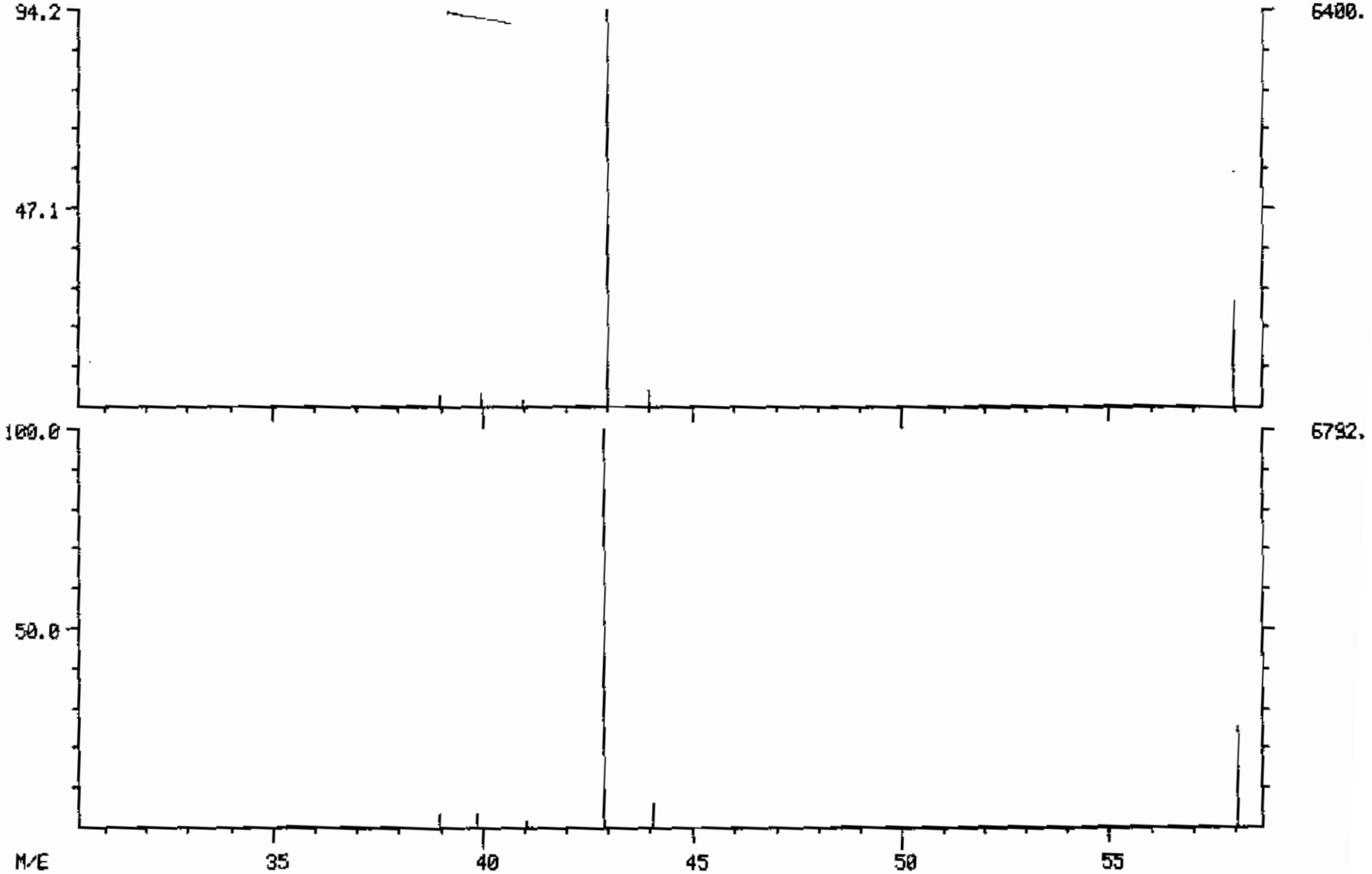
BASE M/E: 43
RIC: 8863.

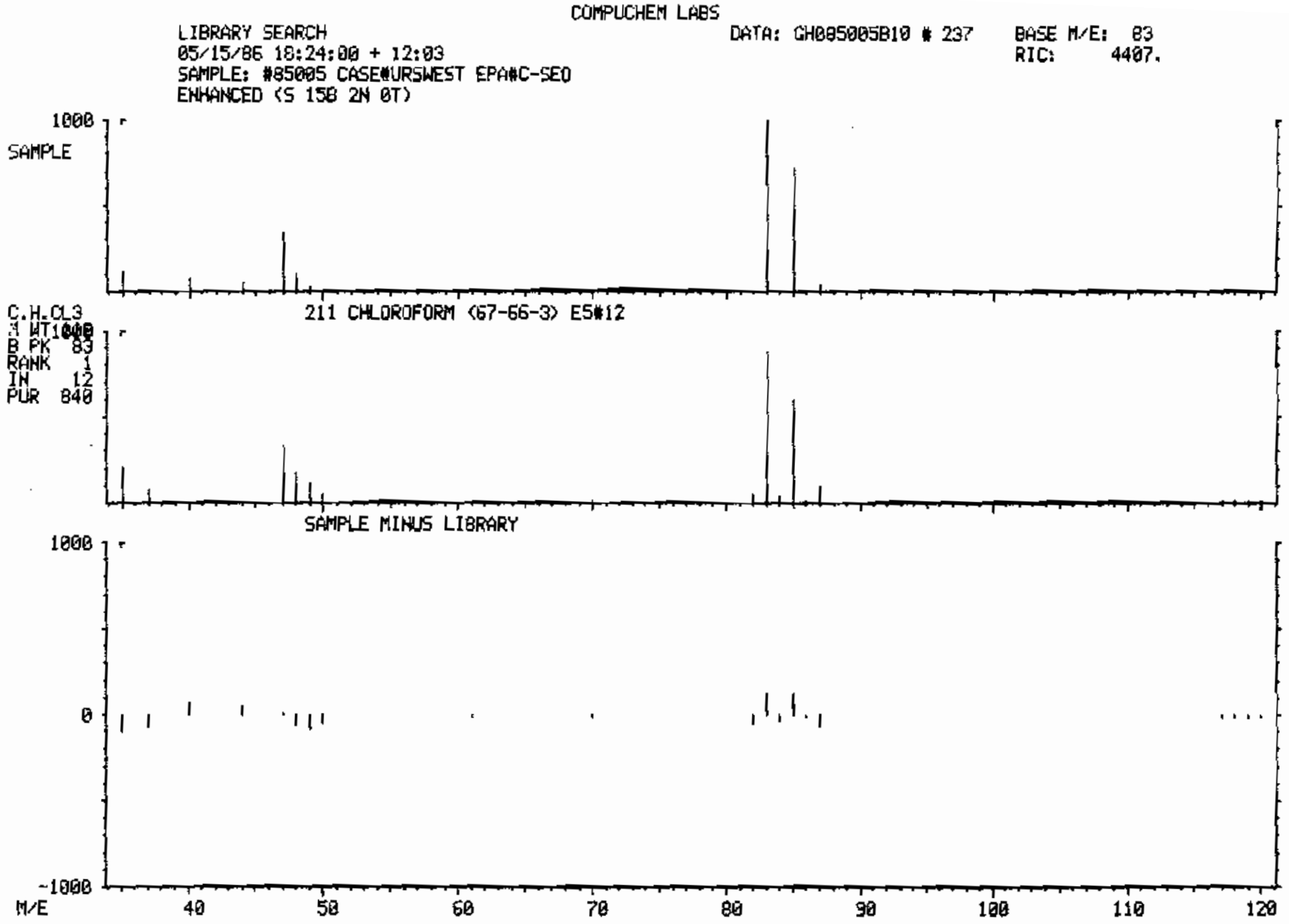


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/15/86 18:24:00 + 7:13
SAMPLE: #85005 CASE#URSWEST EPA#C-SED
ENHANCED (S 15B 2N) 252 ACETONE (2-PROPANONE) <67-64-1> E5#7

DATA: GH085005B18 #142 BASE M/E: 43/ 43
RIC: 8863./ 9487.



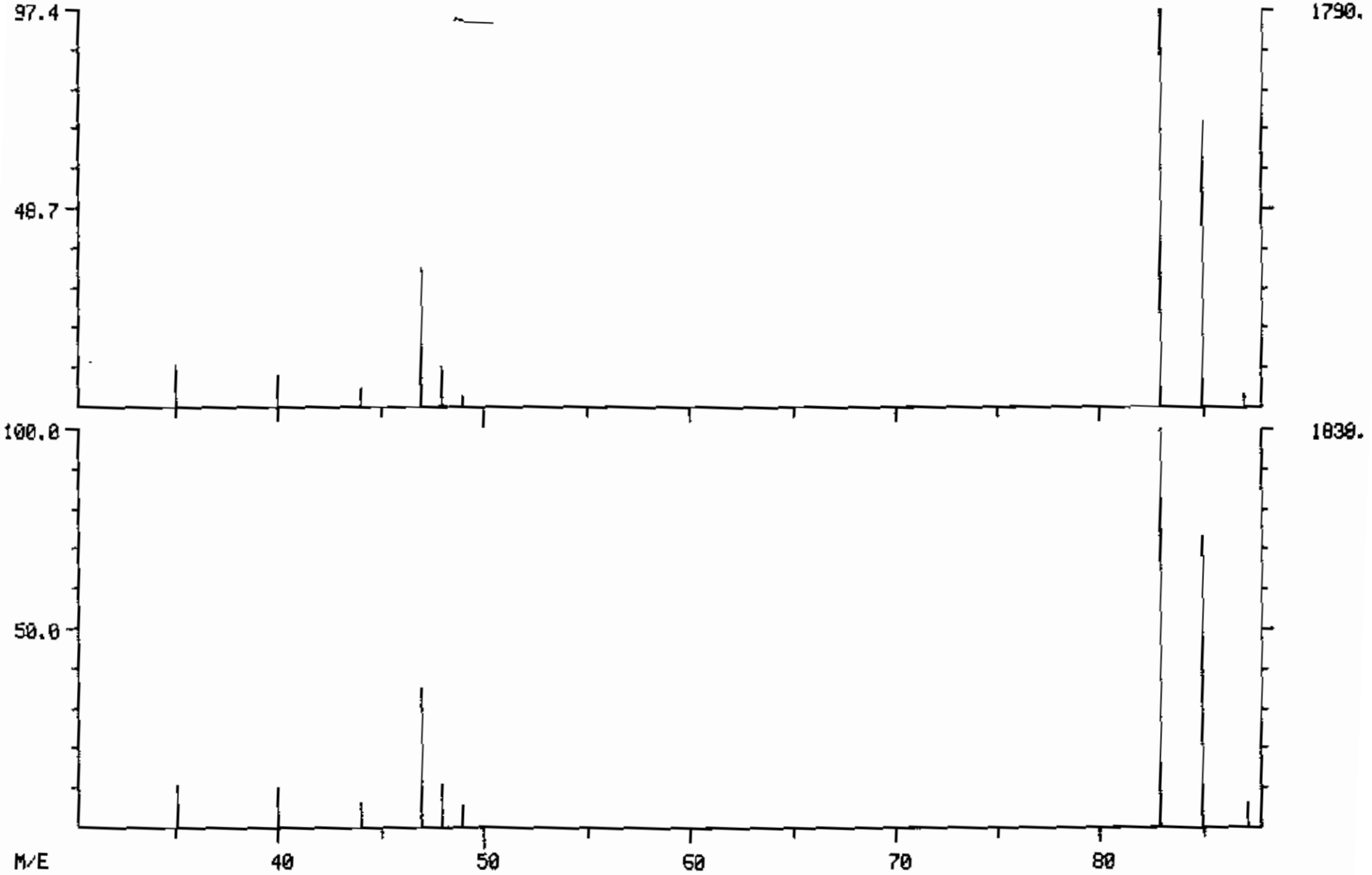

COMPUCHEM LABS
LIBRARY SEARCH
05/15/86 18:24:00 + 12:03
SAMPLE: #85005 CASE#URSWEST EPA#C-SEQ
ENHANCED (S 150 2N 0T)
DATA: GH005005B10 # 237
BASE M/E: 83
RIC: 4407.
1000
SAMPLE
C.H.CL3
211 CHLOROFORM (67-66-3) E5#12
B PK 83
RANK 1
IN 12
PUR 840
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
40
50
60
70
80
90
100
110
120

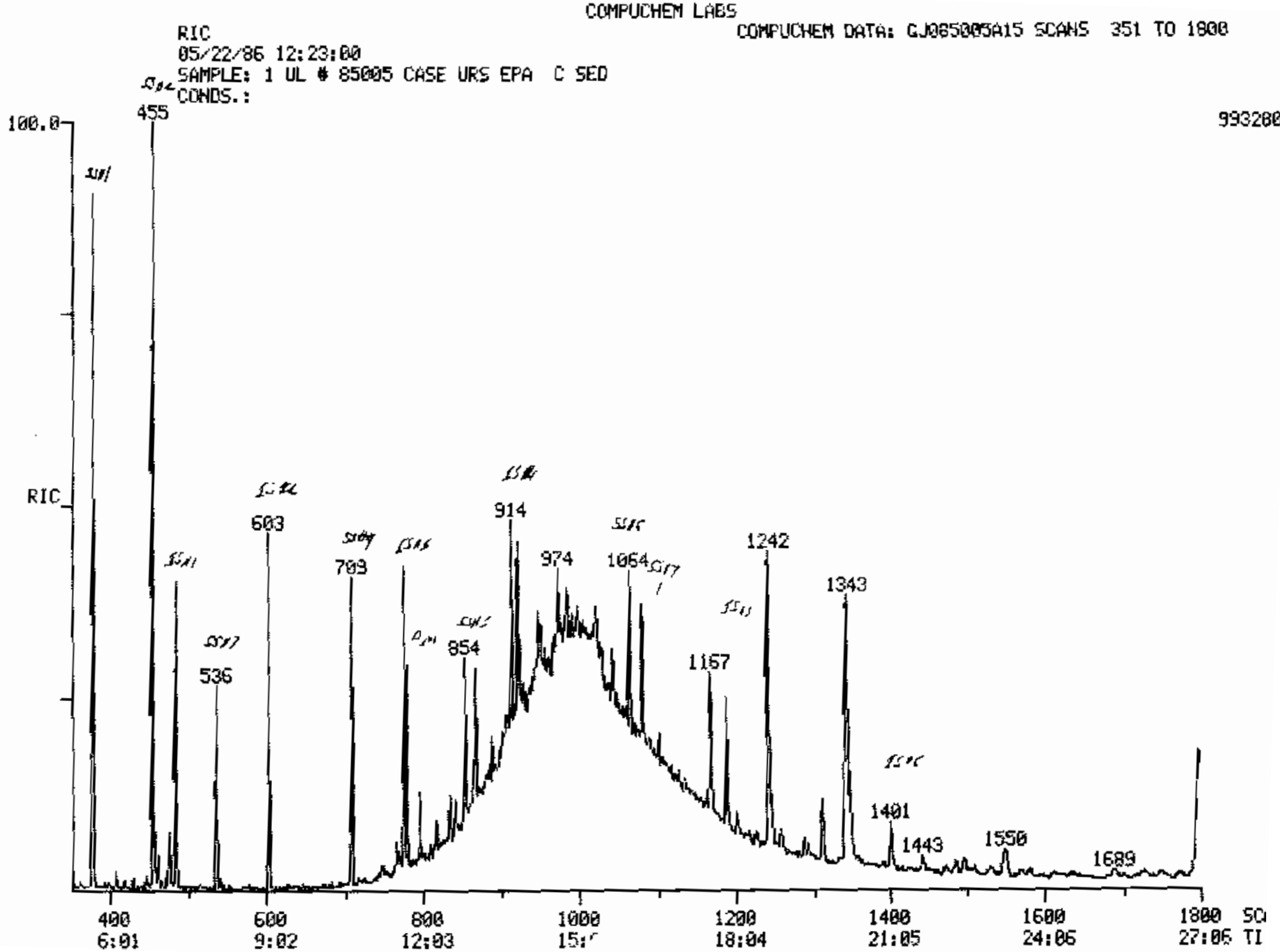
CONPUCHEM LABS

DUAL MASS SPECTRUM
05/15/06 18:24:00 + 12:03
SAMPLE: #85005 CASE#URSWEST EPA#C-SED
ENHANCED (S 15B 2N)

DATA: GH085005B18 #237
211 CHLOROFORM (67-66-3) E5#12

BASE M/E: 83/ 83
RIC: 4407./ 4735.




COMPUCHEM LABS
COMPUCHEM DATA: GJ085005A15 SCANS 351 TO 1800
RIC
05/22/86 12:23:00
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:
100.0
RIC
455
603
709
536
914
974
1064
1242
1343
854
1167
1401
1443
1550
1689
400
6:01
600
9:02
800
12:03
1000
15:
1200
18:04
1400
21:05
1600
24:06
1800
27:06

I.S. Monitor
Sample - GJ085006A15

Method Semi 2

Shift Std HG840522C15

Compound		Sample	Shift Sample	%	P/F
494 -	D4 -1,4-Dichlorobenzene (IS #1)	75340	98420	-24	P
460	D8 - Naphthalene (IS #2)	304774	394929	-23	P
495	D10 Acenaphthene (IS #3)	112712	173108	-35	P
467	D10 Phenanthrene (IS #4)	126452	217772	-42	P
459	D12 Chrysene (IS #5	79007	150976	-48	F
497	D12 Perylene (IS #6)	134440	143564	-6	P

QUANTITATION REPORT FILE: GJ085005A15.

DATA: GJ085005A15.TI
05/22/86 12:23:00
SAMPLE: 1 UL # 85005 CASE URS EPA C SEO
CONOS.:
SUBMITTED BY: 15 ANALYST: 577

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

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	610 PHENOL (Q1#3) <108-95-2>
3	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
4	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
5	421 1,3-DICHLOROBENZENE (Q1#7) <541-73-1>
6	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
7	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
8	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
9	620 2-METHYLPHENOL (Q1#11) <95-48-7>
10	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
11	622 4-METHYLPHENOL (Q1#13) <106-44-5>
12	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
13	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
14	440 NITROBENZENE (Q1#16) <98-95-3>
15	*460 D8-NAPHTHALENE (IS#2)
16	438 ISOPHORONE (Q2#2) <78-59-1>
17	606 2-NITROPHENOL (Q2#3) <88-75-5>
18	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
19	625 BENZOIC ACID (Q2#5) <65-85-0>
20	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
21	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
22	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
23	439 NAPHTHALENE (Q2#9) <91-20-3>
24	475 4-CHLOROANILINE (Q2#10) <106-47-8>
25	434 HEXACHLOROBUTADIENE (Q2#11) <87-68-3>
26	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
27	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
28	*495 D10-ACENAPHTHENE (IS#3)
29	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
30	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
31	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
32	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
33	478 2-NITROANILINE (Q3#6) <88-74-4>
34	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
35	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
36	479 3-NITROANILINE (Q3#9) <99-09-2>
37	401 ACENAPHTHENE (Q3#10) <83-32-9>
38	@605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
39	607 4-NITROPHENOL (Q3#12) <100-02-7>
40	476 DIBENZOFURAN (Q3#13) <132-64-9>
41	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
42	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
43	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
44	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>
45	432 FLUORENE (Q3#18) <86-73-7>
46	480 4-NITROANILINE (Q3#19) <100-01-6>

NO	NAME
47	*467 D10-PHENANTHRENE (IS#4)
48	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
49	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
50	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
51	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
52	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
53	444 PHENANTHRENE (Q4#7) <85-01-8>
54	403 ANTHRACENE (Q4#8) <120-12-7>
55	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
56	431 FLUORANTHENE (Q4#10) <206-44-0>
57	*459 D12-CHRYSENE (IS#5)
58	445 PYRENE (Q5#3) <129-00-0>
59	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
60	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
61	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
62	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
63	418 CHRYSENE (Q5#8) <218-01-9>
64	*497 D12-PERYLENE (IS#6)
65	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
66	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
67	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
68	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
69	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
70	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
71	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
72	#619 2-FLUOROPHENOL (SS#1)
73	#612 D5-PHENOL (SS#2)
74	#447 D5-NITROBENZENE (SS#3)
75	#448 2-FLUOROBIPHENYL (SS#4)
76	#628 2,4,6-TRIBROMOPHENOL (SS#5)
77	#496 D14-TERPHENYL (SS#6)
78	#471 D10-PYRENE
79	456 1,2,3,4-TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	152	485	7:18	1	1.000	A BB	75340.	40.000	NG	6.17
2	94	NOT POUND								
3	93	462	6:57	1	0.953	A VB	15268.	3.261	NG	0.50 no
4	128	NOT FOUND								
5	146	NOT FOUNO								
6	146	NOT FOUND								
7	108	NOT FOUND								
8	146	NOT FOUND								
9	108	NOT FOUND								
10	45	NOT FOUND								
11	108	NOT FOUND								
12	70	NOT FOUND								
13	117	NOT FOUND								
14	77	NOT FOUND								
15	136	603	9:05	15	1.000	A BB	304784.	40.000	NG	6.17
16	82	NOT FOUND								
17	139	NOT FOUND								
18	122	NOT FOUND								
19	122	NOT FOUND								
20	93	NOT FOUNO								
21	162	NOT FOUND								

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT	
22	180	NOT FOUND									
23	128	NOT FOUND									
24	127	NOT FOUND									
25	225	NOT FOUND									
26	107	NOT FOUND									
27	142	NOT FOUND									
28	164	776	11:41	28	1.000	A BB	112712.	40.000	NG	6.17	
29	237	NOT FOUND									
30	196	NOT FOUND									
31	196	NOT FOUND									
32	162	NOT FOUND									
33	65	NOT FOUND									
34	163	NOT FOUND									
35	152	NOT FOUND									
36	138	NOT FOUND									
37	153	NOT FOUND									
38	184	NOT FOUND									
39	139	NOT FOUND									
40	168	NOT FOUND									
41	89	NOT FOUND									
42	165	NOT FOUND									
43	149	NOT FOUND									
44	204	NOT FOUND									
45	166	NOT FOUND									
46	138	NOT FOUND									
47	188	921	13:52	47	1.000	A BV	126452.	40.000	NG	6.17	
48	198	NOT FOUND									
49	169	NOT FOUND									
50	248	NOT FOUND									
51	284	NOT FOUND									
52	266	NOT FOUND									
53	178	924	13:55	47	1.003	A VV	18682.	4.742	NG	0.73	yes
54	178	924	13:55	47	1.003	A VV	18682.	5.912	NG	0.91	no
55	149	NOT FOUND									
56	202	1043	15:42	47	1.132	A VV	29952.	8.298	NG	1.25	yes
57	240	1188	17:53	57	1.000	A BV	79008.	40.000	NG	6.17	
58	202	1066	16:03	57	0.897	A VV	23956.	7.729	NG	1.19	yes
59	149	NOT FOUND									
60	252	NOT FOUND									
61	228	1186	17:52	57	0.998	A BV	8976.	3.538	NG	0.55	yes
62	149	1190	17:55	57	1.002	A BB	2801.	1.010	NG	0.16	yes
63	228	~~1186~~ 1491	17:52	57	0.998	A BV	~~8976.~~ 9960	~~3.538~~	NG	~~0.55~~ 0.56	yes
64	264	1401	21:06	64	1.000	A*BB	134640.	40.000	NG	6.17	
65	149	NOT FOUND									
66	252	1333	20:04	64	0.951	A BV	~~8496.~~ 14424	~~1.701~~	NG	3.544 0.29	yes
67	252	1338	20:07	64	0.954	A VV	~~5436.~~ 14124	~~1.551~~	NG	3.544 0.24	yes
68	252	1391	20:57	64	0.993	A BB	6388.	1.639	NG	0.25	yes
69	276	NOT FOUND									
70	278	NOT FOUND									
71	276	1733	26:06	64	1.237	A BB	2340.	0.635	NG	0.10	
72	112	378	5:42	1	0.779	A BB	305688.	79.308	NG	12.24	
73	99	455	6:51	1	0.938	A BV	425008.	80.183	NG	12.38	
74	82	536	8:04	15	0.889	A BB	131440.	26.779	NG	4.13	
75	172	709	10:41	28	0.914	A BB	160156.	45.234	NG	6.98	
76	141	854	12:52	28	1.101	A*BB	16555.	58.737	NG	9.07	
77	244	1080	16:16	57	0.909	A BV	80332.	35.800	NG	5.53	

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
78	212	1064	16:01	57	0.896	A VV	111376.	37.959	NC	5.86
79	216	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	8:09	0.90	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	7:43		10.000			50.00		2.997	
3	7:49	0.89	10.000	0.10	3.26	50.00	0.162	2.486	0.07
4	7:53		10.000			50.00		1.769	
5	8:06		10.000			50.00		1.709	
6	8:10		10.000			50.00		1.635	
7	8:23		10.000			50.00		1.354	
8	8:27		10.000			50.00		1.593	
9	8:36		10.000			50.00		1.651	
10	8:39		10.000			50.00		5.016	
11	8:48		10.000			50.00		1.818	
12	8:50		10.000			50.00		2.062	
13	8:56		10.000			50.00		0.860	
14	9:02		10.000			50.00		2.724	
15	10:05	0.90	10.000	0.10	40.00	40.00	1.000	1.000	1.00
16	9:24		10.000			50.00		1.091	
17	9:31		10.000			50.00		0.228	
18	9:36		10.000			50.00		0.367	
19	9:45		50.000			50.00		0.283	
20	9:45		10.000			50.00		0.604	
21	9:53		10.000			50.00		0.259	
22	10:01		10.000			50.00		0.270	
23	10:07		10.000			50.00		1.074	
24	10:13		10.000			50.00		0.424	
25	10:25		10.000			50.00		0.123	
26	10:59		10.000			50.00		0.360	
27	11:11		10.000			50.00		0.613	
28	12:51	0.91	10.000	0.10	40.00	40.00	1.000	1.000	1.00
29	11:33		10.000			50.00		0.234	
30	10:35		10.000			50.00		0.236	
31	10:35		50.000			50.00		0.317	
32	11:56		10.000			50.00		1.162	
33	12:08		50.000			50.00		0.773	
34	12:29		10.000			50.00		1.406	
35	12:36		10.000			50.00		1.924	
36	12:46		50.000			50.00		0.396	
37	12:53		10.000			50.00		1.221	
38	12:56		50.000			50.00		0.133	
39	13:03		50.000			50.00		0.299	
40	13:09		10.000			50.00		1.594	
41	13:12		10.000			50.00		0.612	
42	12:34		10.000			50.00		0.316	
43	13:20		10.000			50.00		1.317	
44	13:42		10.000			50.00		0.499	
45	13:41		10.000			50.00		1.215	
46	13:44		50.000			50.00		0.363	
47	15:09	0.92	10.000	0.10	40.00	40.00	1.000	1.000	1.00
48	13:50		50.000			50.00		0.136	
49	13:53		10.000			50.00		0.678	
50	14:27		10.000			50.00		0.237	
51	14:41		10.000			50.00		0.295	
52	14:57		50.000			50.00		0.172	

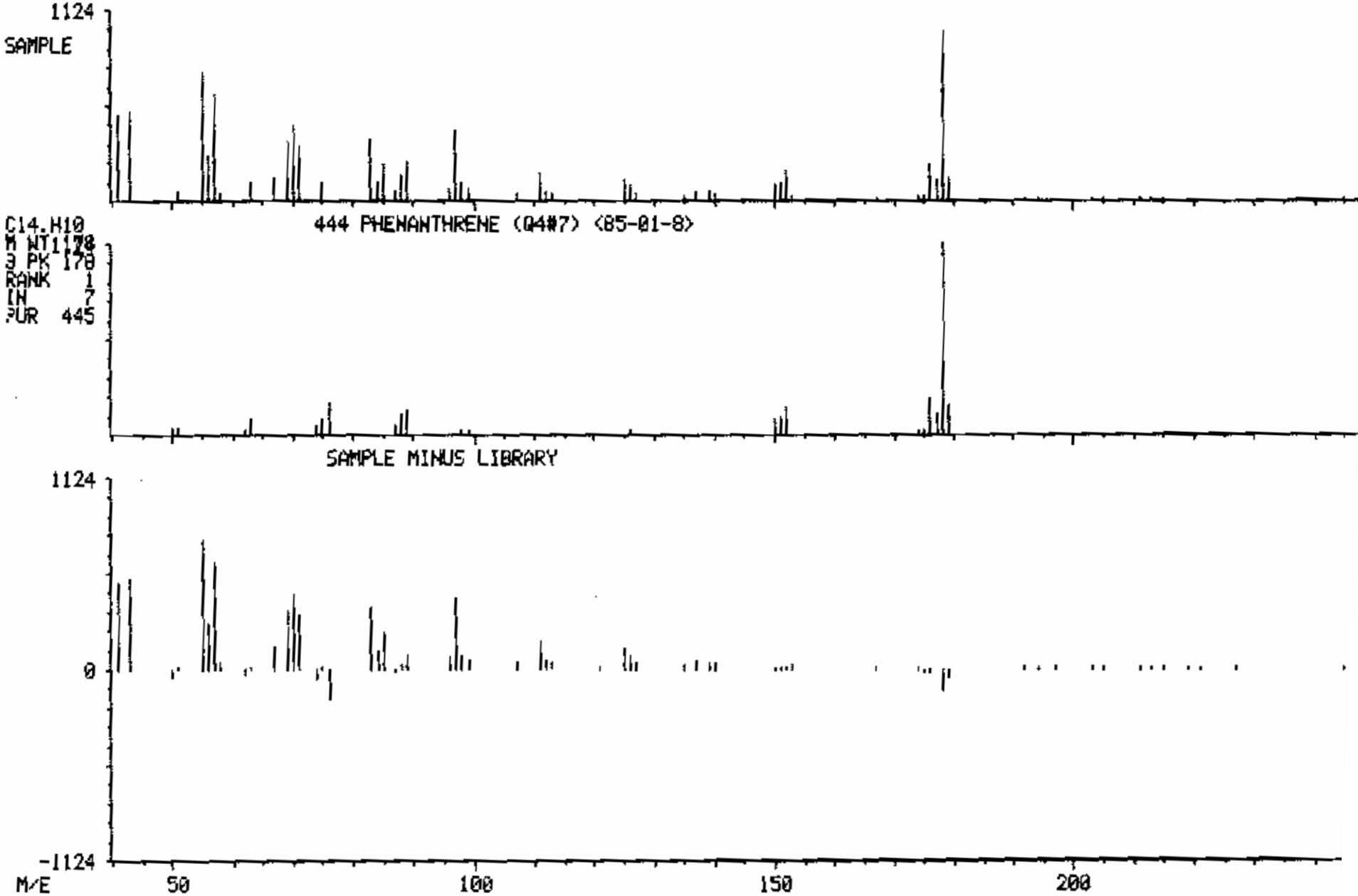
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
53	15:12	0.92	10.000	0.10	4.74	50.00	0.118	1.246	0.09
54	15:16	0.91	10.000	0.10	5.91	50.00	0.118	1.000	0.12
55	16:10		10.000			50.00		1.817	
56	17:05	0.92	10.000	0.11	8.30	50.00	0.189	1.142	0.17
57	19:21	0.92	10.000	0.10	40.00	40.00	1.000	1.000	1.00
58	17:26	0.92	10.000	0.09	7.73	50.00	0.243	1.569	0.15
59	18:31		10.000			50.00		0.969	
60	19:17		20.000			50.00		0.423	
61	19:20	0.92	10.000	0.10	3.54	50.00	0.091	1.284	0.07
62	19:27	0.92	10.000	0.10	1.01	50.00	0.028	1.404	0.02
63	19:23	0.92	10.000	0.10	3.60	50.00	0.091	1.261	0.07
64	21:56	0.96	10.000	0.10	40.00	40.00	1.000	1.000	1.00
65	20:23		10.000			50.00		1.572	
66	21:12	0.95	10.000	0.10	1.90	50.00	0.050	1.328	0.04
67	21:12	0.95	10.000	0.10	1.55	50.00	0.032	1.041	0.03
68	21:49	0.96	10.000	0.10	1.64	50.00	0.038	1.158	0.03
69	24:50		10.000			50.00		1.376	
70	24:52		10.000			50.00		1.113	
71	25:41	1.02	10.000	0.12	0.63	50.00	0.014	1.095	0.01
72	6:22	0.89	0.742	1.05	79.31	50.00	3.246	2.046	1.59
73	7:42	0.89	0.948	0.99	80.18	50.00	4.513	2.814	1.60
74	9:00	0.90	0.875	1.02	26.78	50.00	0.345	0.644	0.54
75	11:48	0.91	0.906	1.01	45.23	50.00	1.137	1.257	0.90
76	14:05	0.91	1.118	0.98	58.74	50.00	0.118	0.100	1.17
77	17:41	0.92	0.907	1.00	35.80	50.00	0.813	1.136	0.72
78	17:24	0.92	10.000	0.09	37.96	50.00	1.128	1.485	0.76
79	11:58		1.000			50.00		0.167	

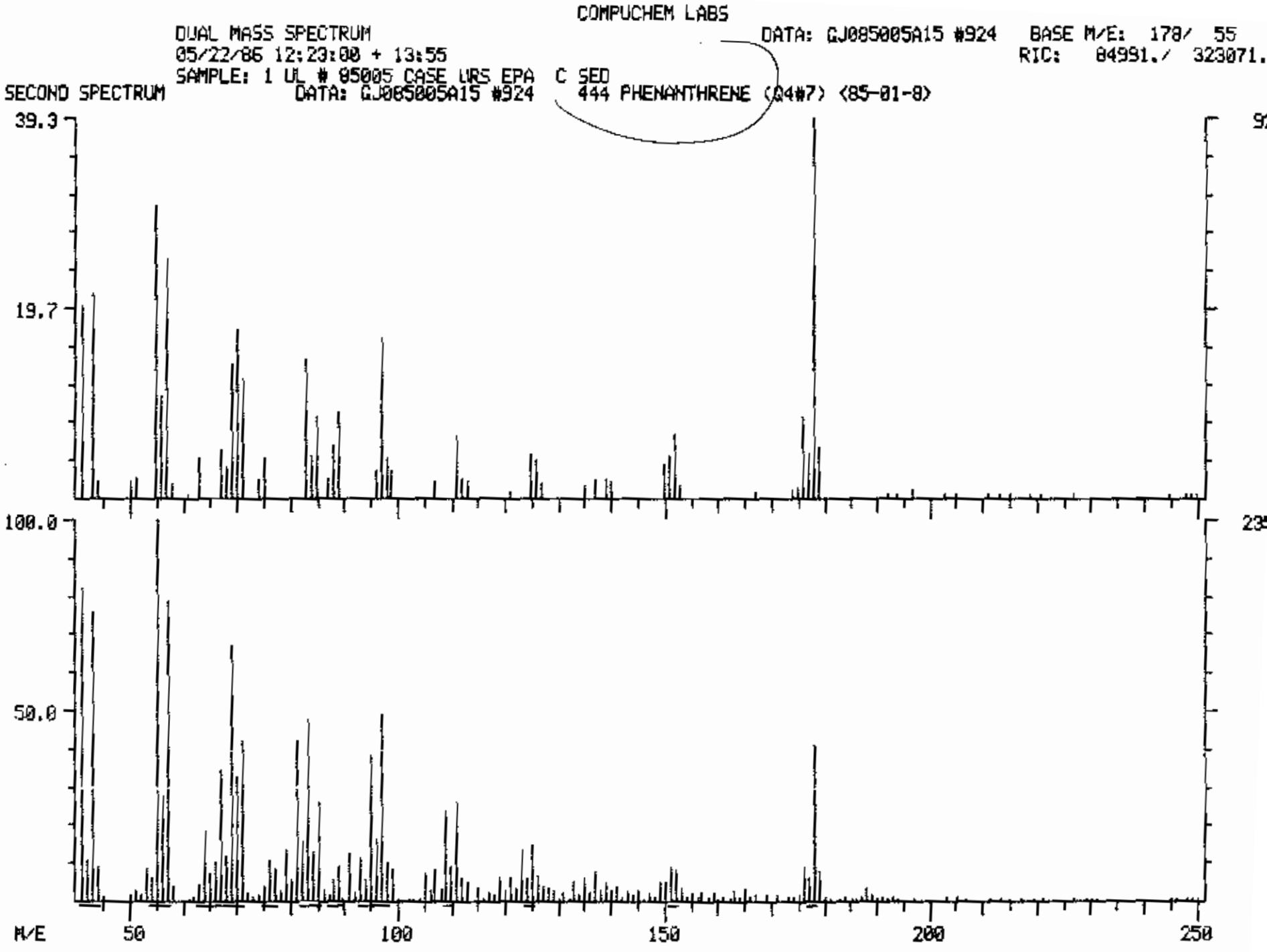
COMPUCHEM LABS

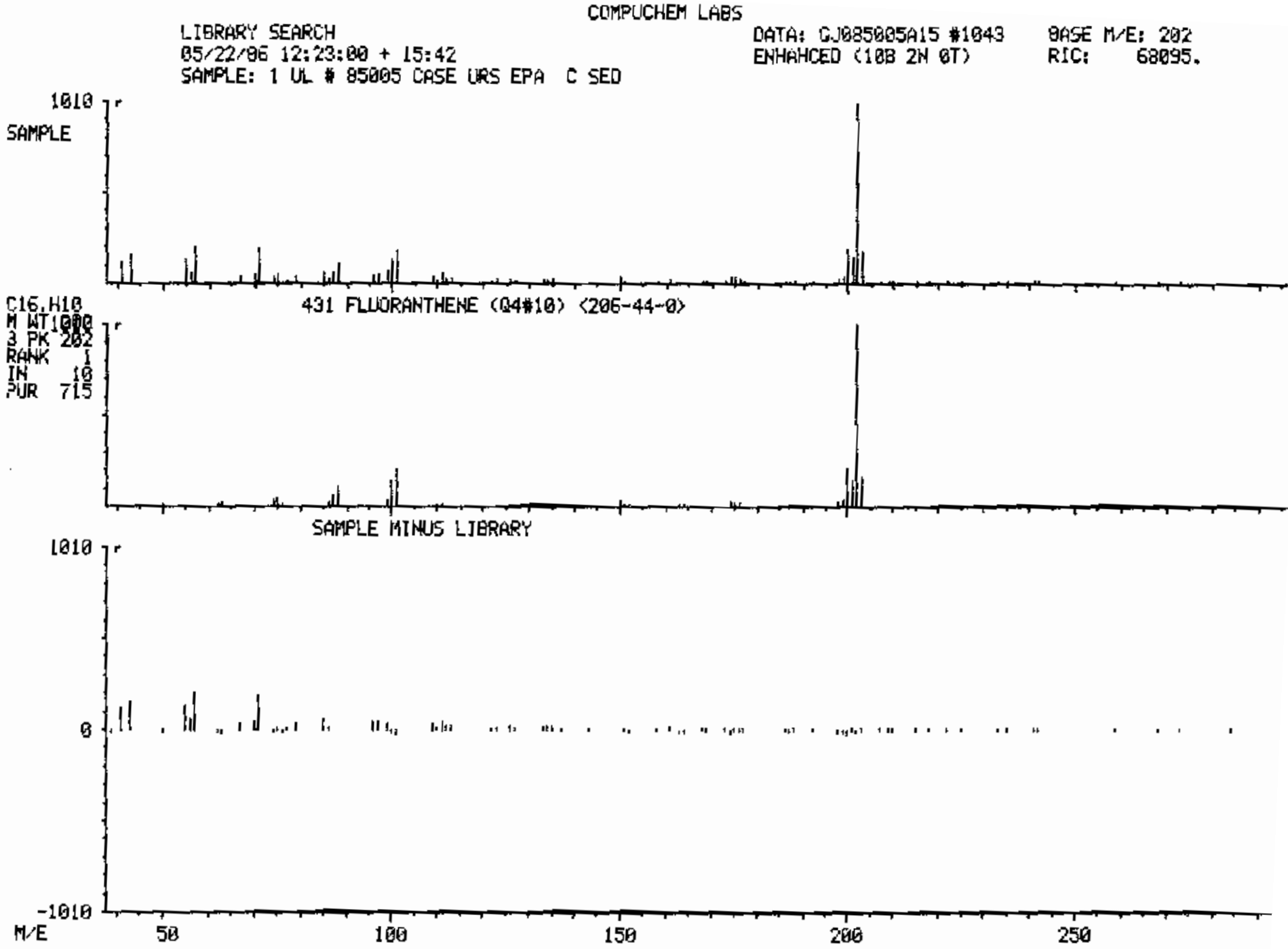
LIBRARY SEARCH
05/22/86 12:23:00 + 13:55
SAMPLE: 1 UL # 85005 CASE URS EPA C SED

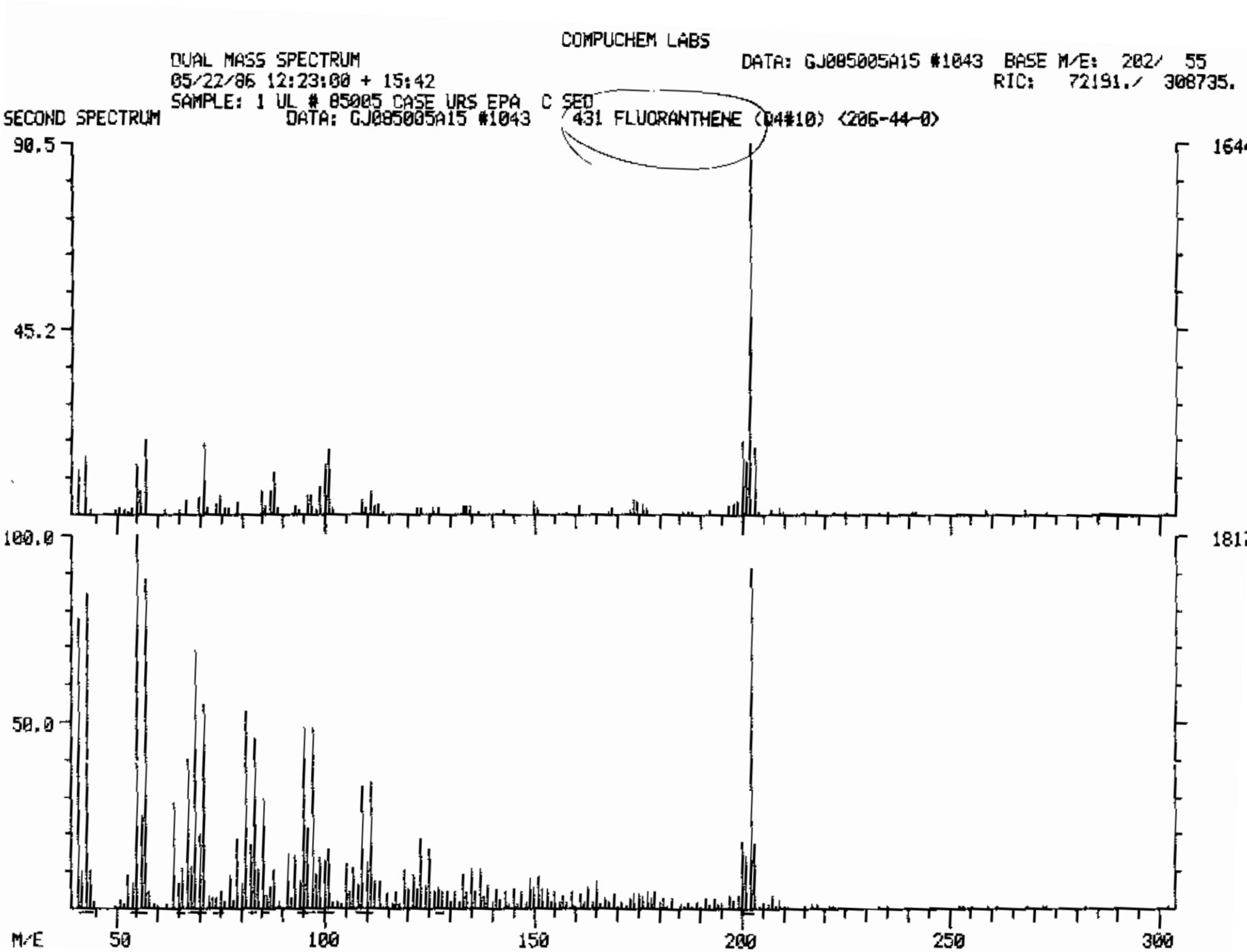
DATA: GJ085805A15 # 924
ENHANCED (10B 2N 0T)

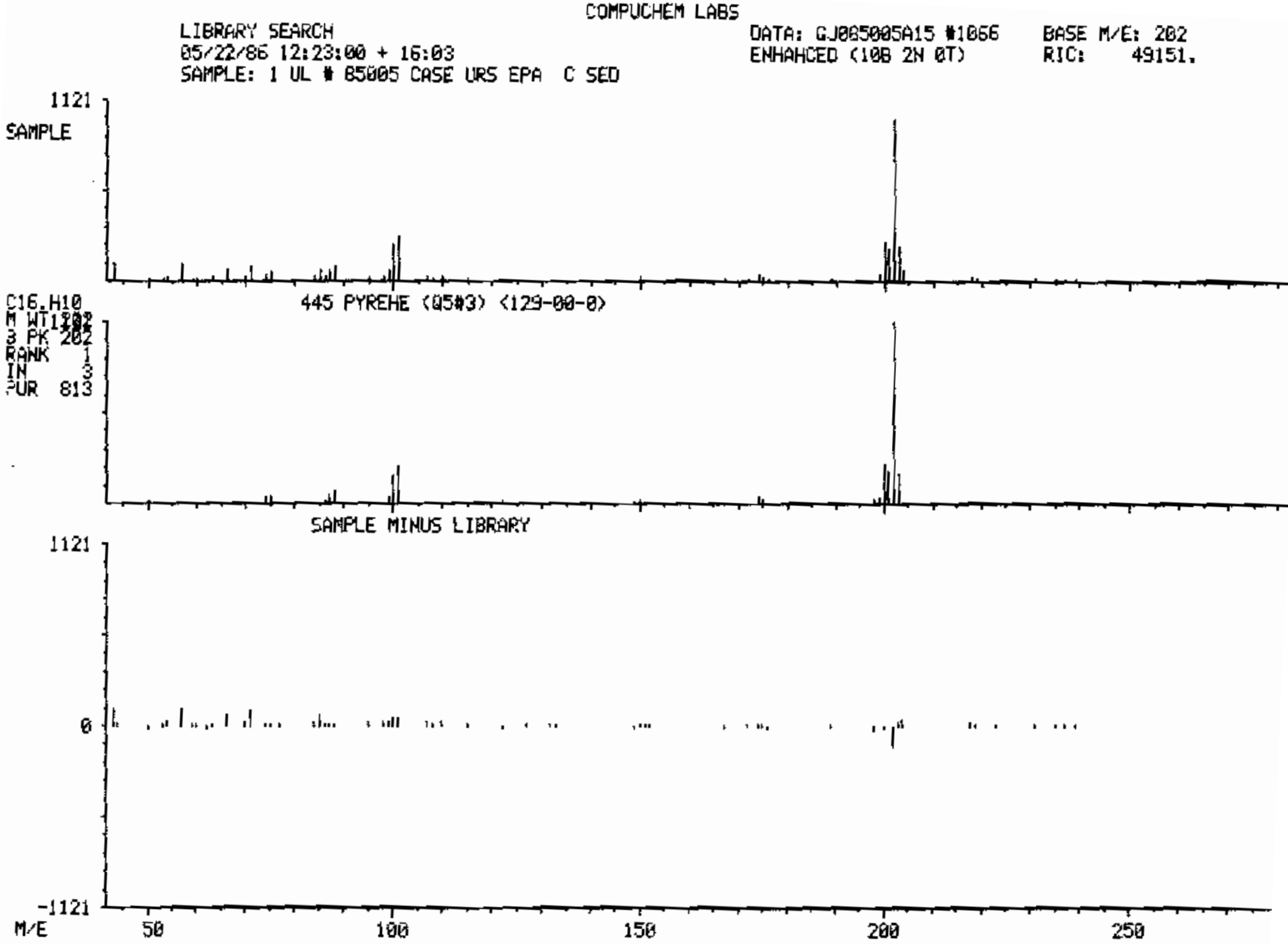
BASE M/E: 178
RIC: 82815.




COMPUCHEM LABS
DUAL MASS SPECTRUM
05/22/86 12:23:00 + 13:55
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
DATA: GJ085005A15 #924
BASE M/E: 178/ 55
RIC: 84991./ 323071.
SECOND SPECTRUM
DATA: GJ085005A15 #924
444 PHENANTHRENE (Q4#7) <85-01-8>
39.3
19.7
100.0
50.0
M/E
50
100
150
200
250


COMPUCHEM LABS
LIBRARY SEARCH
05/22/86 12:23:00 + 15:42
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
DATA: GJ085005A15 #1043
ENHANCED (10B 2N 0T)
BASE M/E: 202
RIC: 68095.
1010
SAMPLE
C16,H10
M WT 202
3 PK 202
RANK 1
IN 10
PUR 715
431 FLUORANTHENE (Q4#10) <206-44-0>
SAMPLE MINUS LIBRARY
1010
0
-1010
M/E
50
100
150
200
250


COMPUCHEM LABS
DUAL MASS SPECTRUM
05/22/86 12:23:00 + 15:42
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
DATA: GJ085005A15 #1043 BASE M/E: 202/ 55
RIC: 72191./ 308735.
SECOND SPECTRUM
DATA: GJ085005A15 #1043
431 FLUORANTHENE (D4#10) <206-44-0>
90.5
45.2
164
100.0
50.0
181
M/E
50
100
150
200
250
300

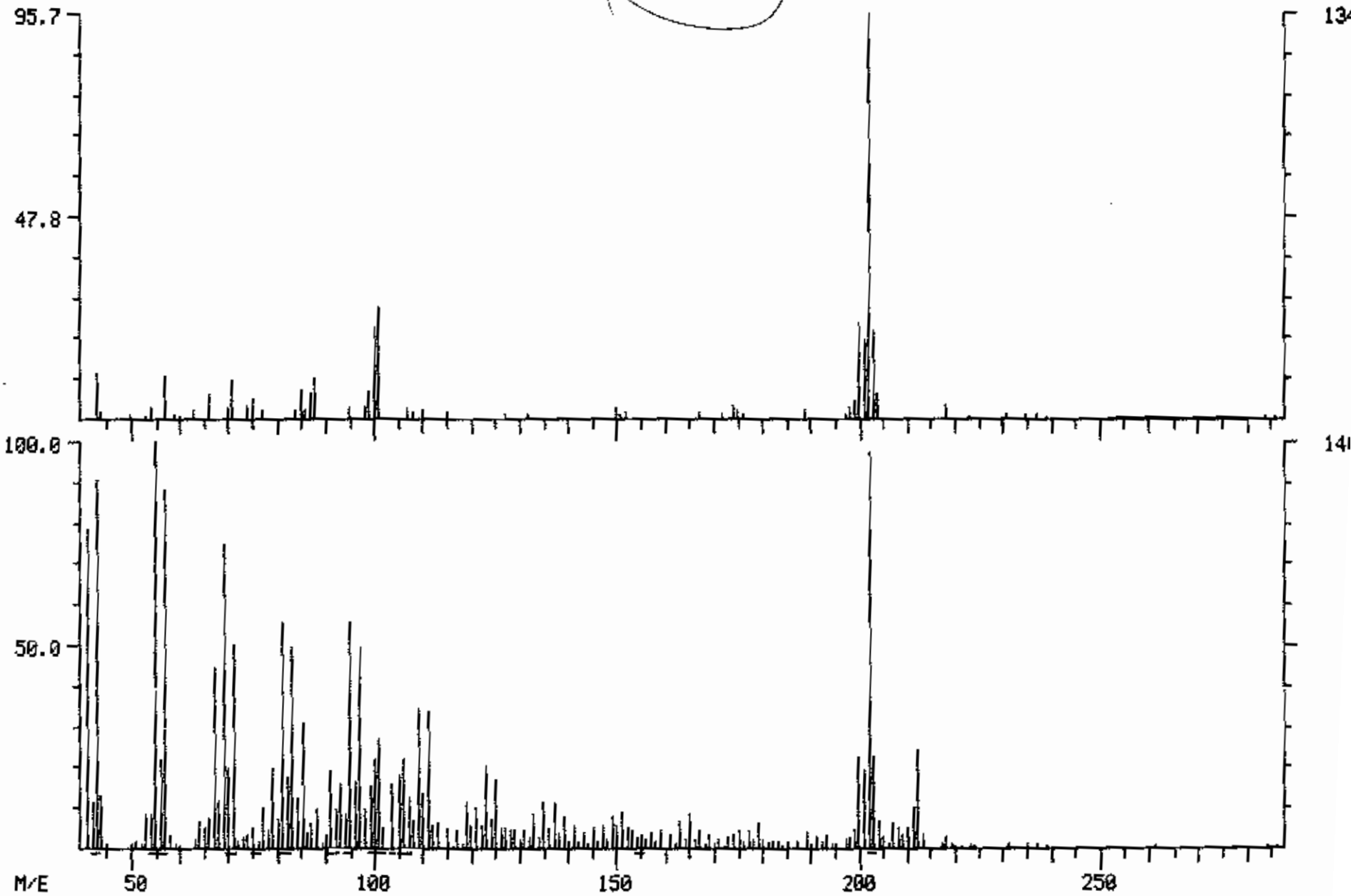

COMPUCHEM LABS
LIBRARY SEARCH
05/22/86 12:23:00 + 16:03
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
DATA: GJ085005A15 #1066
ENHANCED (10B 2N 0T)
BASE M/E: 202
RIC: 49151.
1121
SAMPLE
445 PYREHE (Q5#3) (129-00-0)
C16.H10
M WT 202
3 PK 202
RANK 1
IN 3
PUR 813
SAMPLE MINUS LIBRARY
1121
0
-1121
M/E
50
100
150
200
250

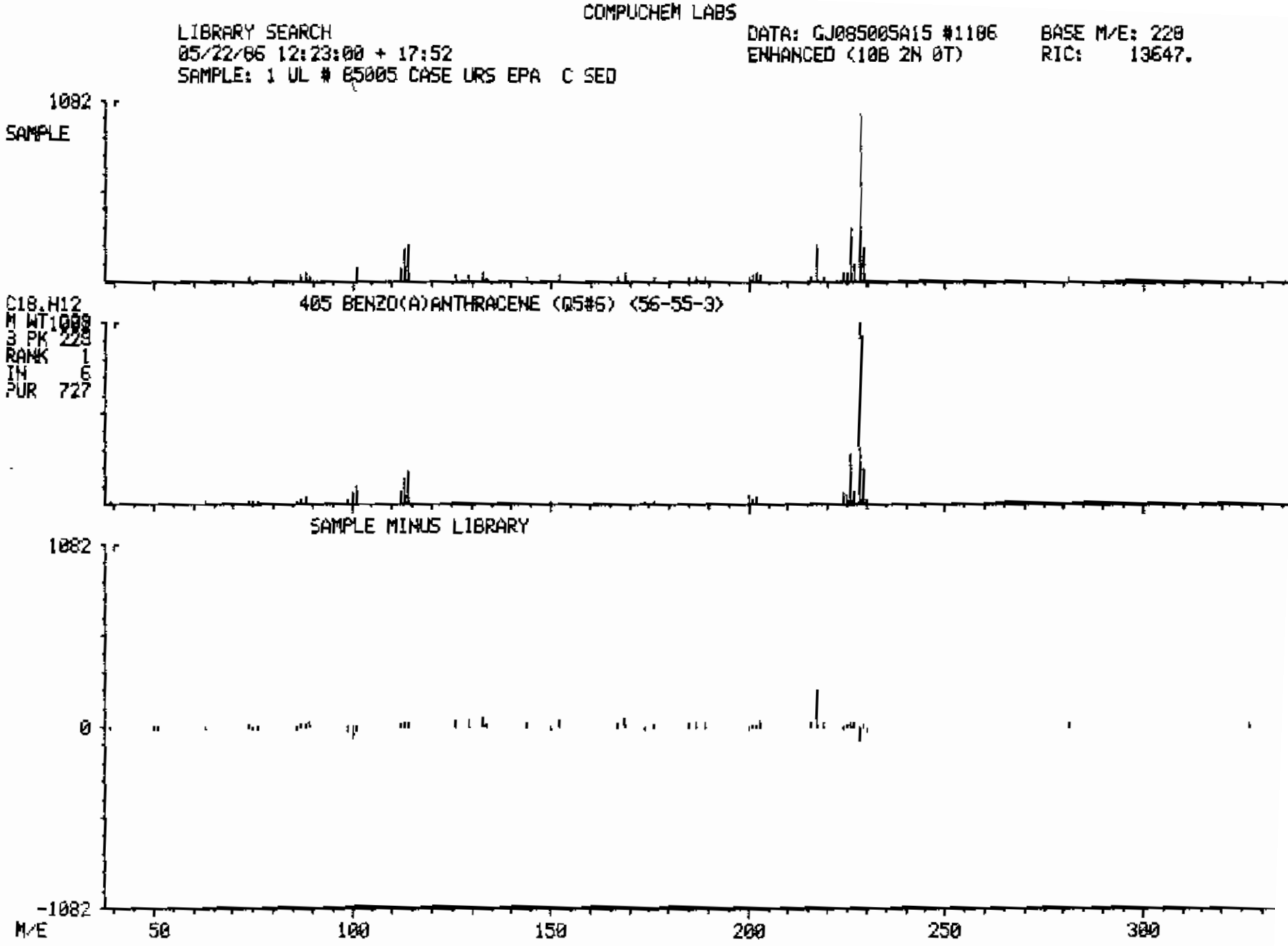
COMPUCHEM LABS

DUAL MASS SPECTRUM
05/22/86 12:23:00 + 16:03
SAMPLE: 1 UL # 85005 CASE URS EPA C SED

DATA: GJ085005A15 #1066 BASE M/E: 202/ 55
RIC: 49663./ 267263.

SECOND SPECTRUM DATA: GJ085005A15 #1065 445 PYRENE (Q5#3) (129-00-0)



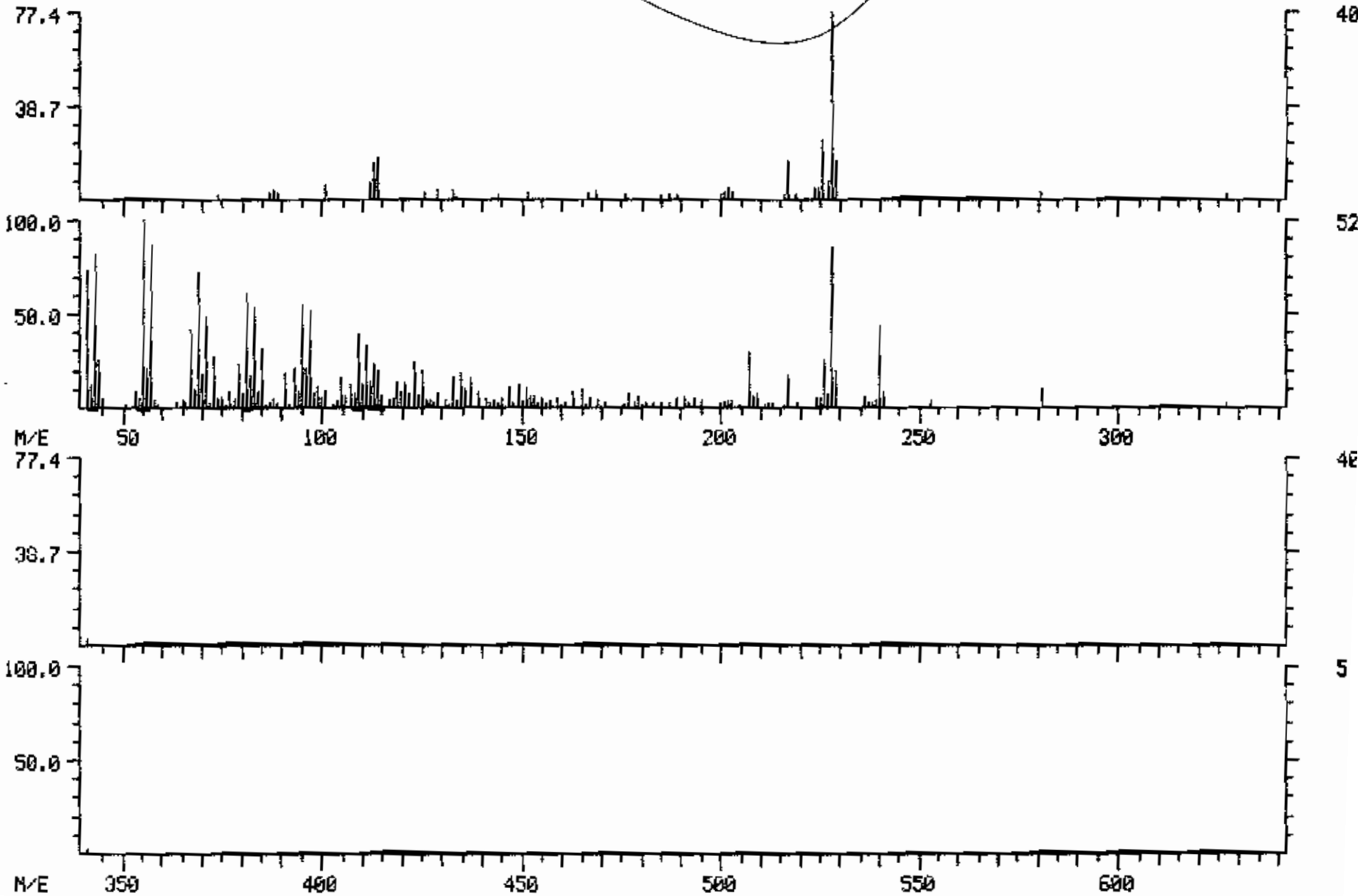

COMPUCHEM LABS
LIBRARY SEARCH
05/22/86 12:23:00 + 17:52
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
DATA: GJ08500SA15 #1106
ENHANCED (10B 2N 0T)
BASE M/E: 220
RIC: 13647.
1082
SAMPLE
C18.H12
M WT1000
3 PK 228
RANK 1
IN 6
PUR 727
405 BENZO(A)ANTHRACENE (Q5#6) (56-55-3)
SAMPLE MINUS LIBRARY
1082
0
-1082
M/E
50
100
150
200
250
300

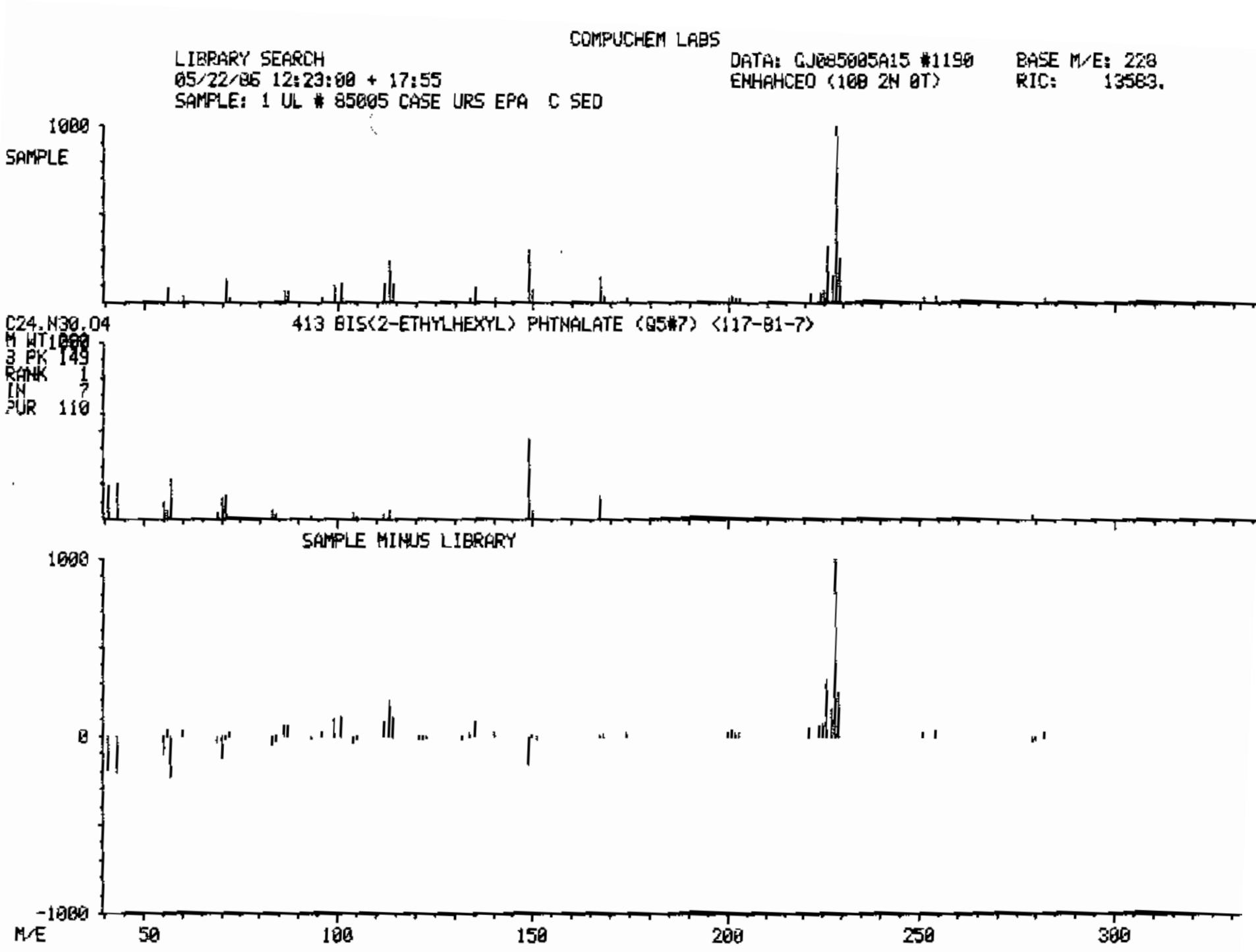
COMPUCHEM LABS

DUAL MASS SPECTRUM
05/22/86 12:23:00 + 17:52
SAMPLE: 1 UL # 85005 CASE URS EPA C SED

DATA: GJ085005A15 #1186 BASE M/E: 228/ 55
RIC: 13647./ 104575.

SECOND SPECTRUM DATA: GJ085005A15 #1186 405 BENZO(A)ANTHRACENE (Q5#6) (56-55-3)



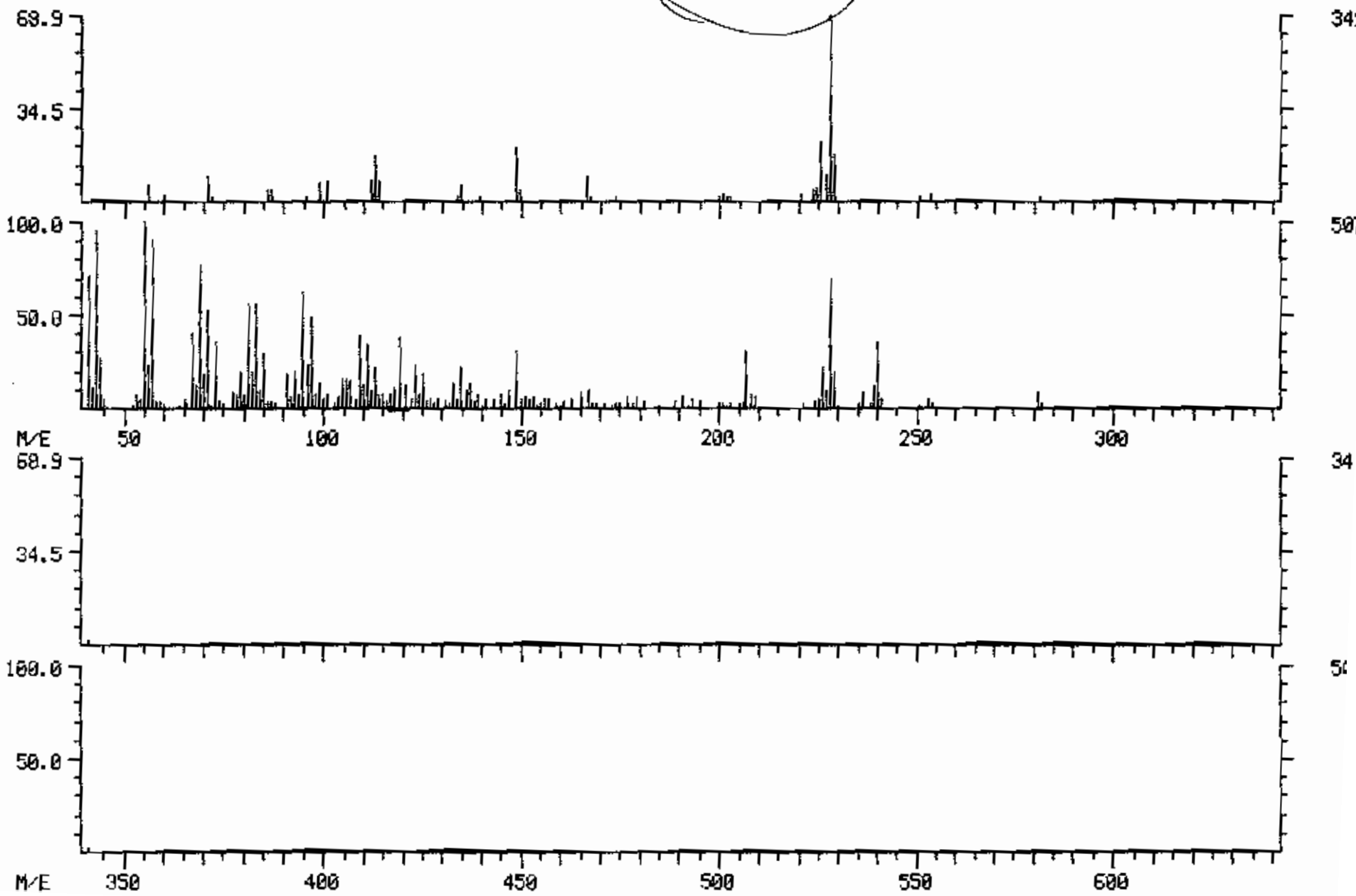

COMPUCHEM LABS
LIBRARY SEARCH
05/22/86 12:23:00 + 17:55
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
DATA: GJ085005A15 #1190
ENHANCED (100 2N 0T)
BASE M/E: 228
RIC: 13583.
1000
SAMPLE
C24.N30.04
413 BIS(2-ETHYLHEXYL) PHTNALATE (Q5#7) (117-81-7)
M WT
B PK 149
RANK 1
IN 7
PUR 110
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
50
100
150
200
250
300

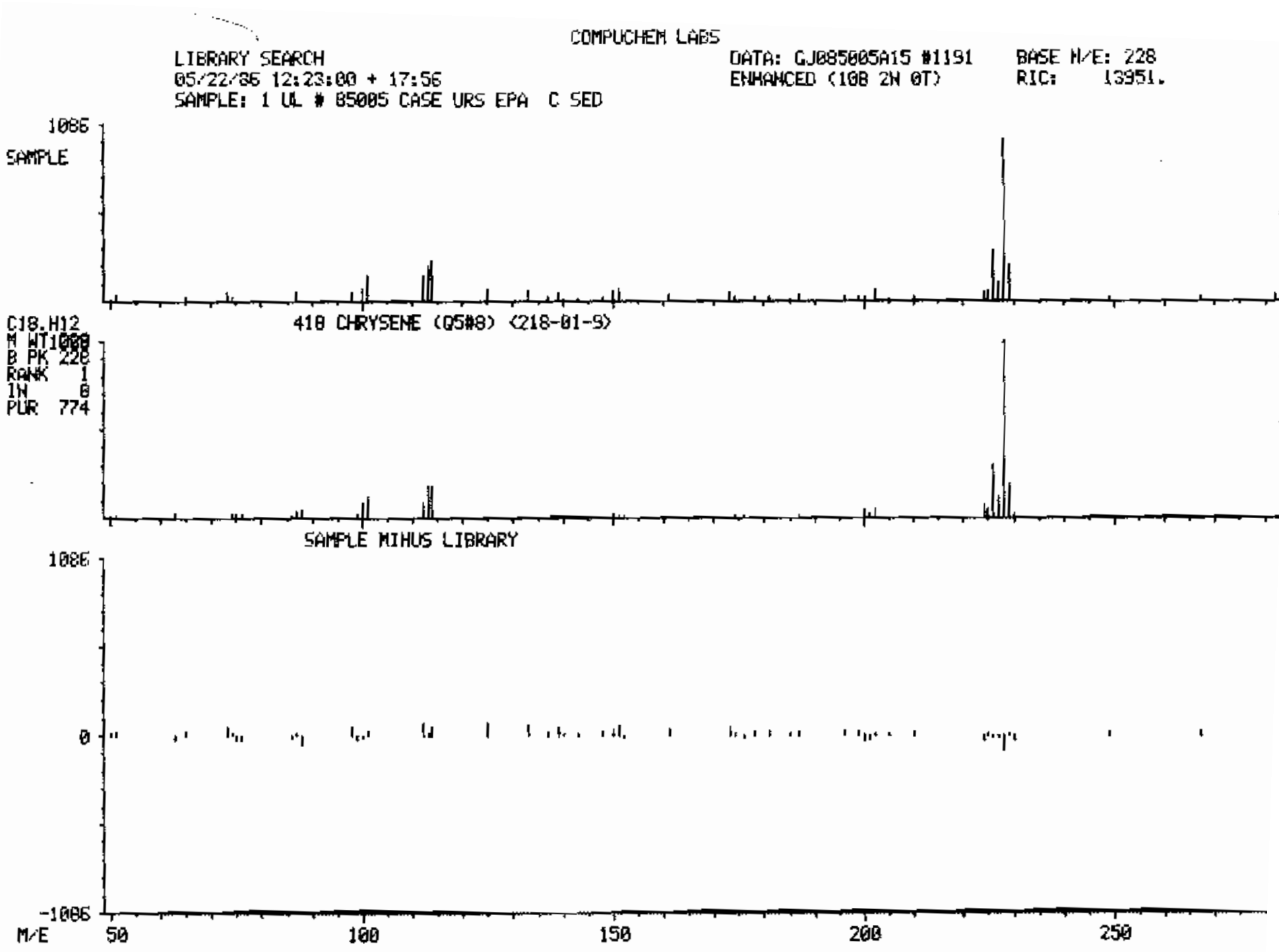
COMPUCHEM LABS

DUAL MASS SPECTRUM
05/22/86 12:23:00 + 17:55
SAMPLE: 1 UL # 85005 CASE URS EPA C SED

DATA: GJ085005A1S #1190 BASE M/E: 228/ 55
RIC: 13503./ 103423.

SECOND SPECTRUM DATA: GJ085005A15 #1190 41S BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>



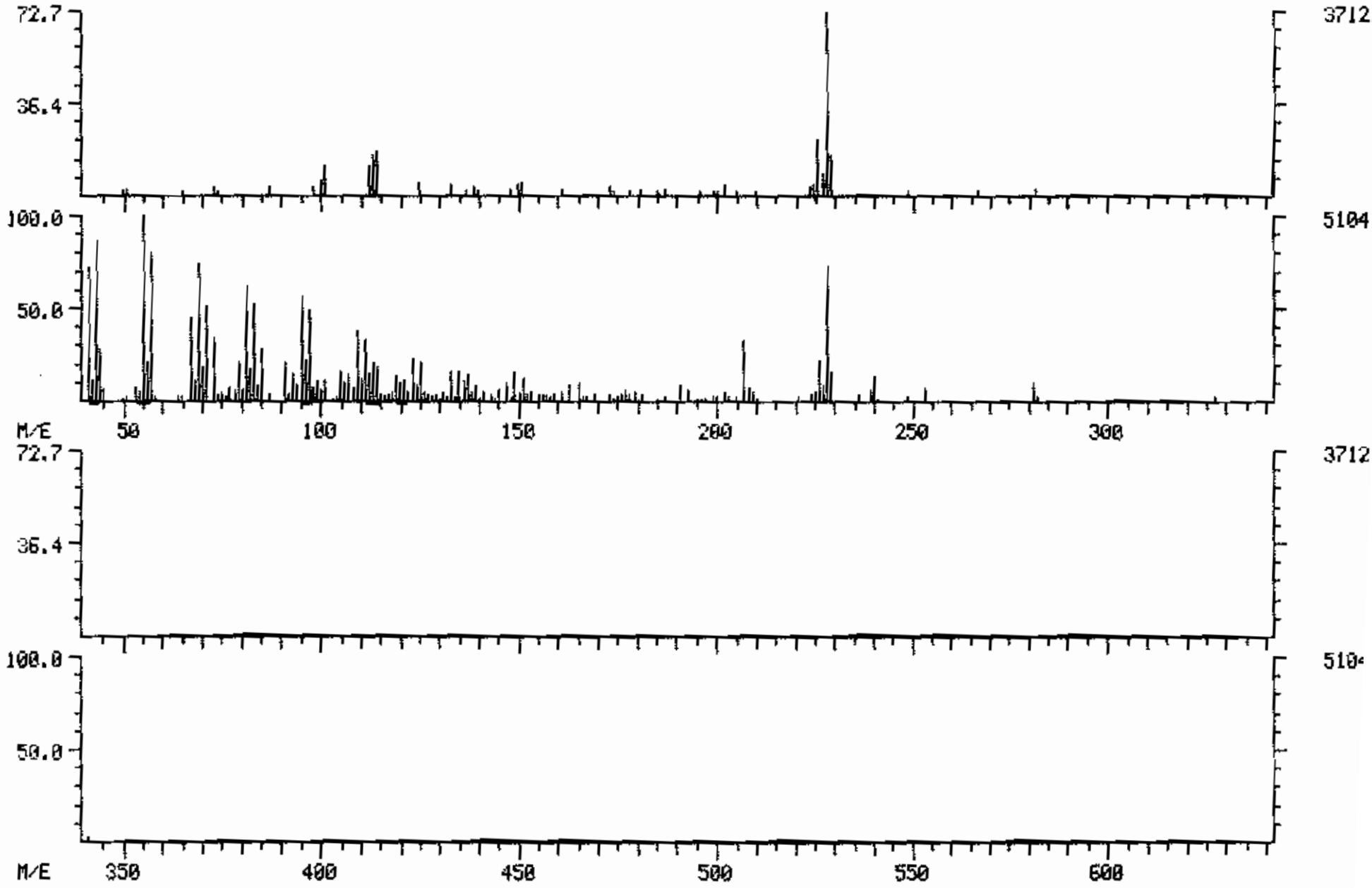

COMPUCHEM LABS
LIBRARY SEARCH
05/22/86 12:23:00 + 17:56
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
DATA: GJ085005A15 #1191
ENHANCED (10B 2N 0T)
BASE M/E: 228
RIC: 13951.
1086
SAMPLE
418 CHRYSENE (Q5#8) <218-01-9>
C18.H12
M WT1000
B PK 228
RANK 1
IN 0
PUR 774
SAMPLE MINUS LIBRARY
1086
0
-1086
M/E
50
100
150
200
250

COMPUCHEM LABS

DUAL MASS SPECTRUM
05/22/86 12:23:00 + 17:56
SAMPLE: 1 UL # 85005 CASE URS EPA C SED

DATA: GJ085005A15 #1191 BASE M/E: 220/ 55
RIC: 13951./ 97919.

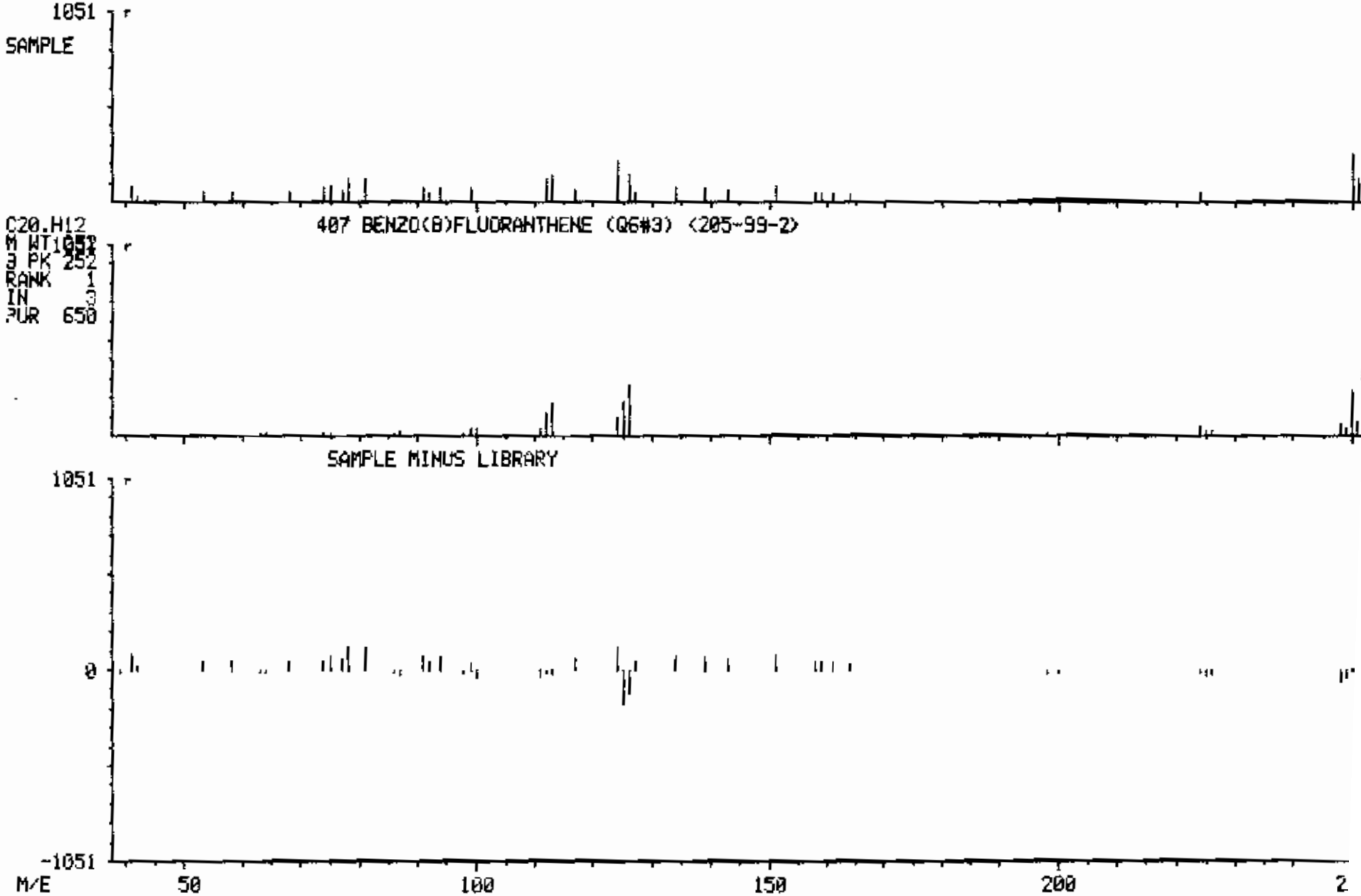
SECOND SPECTRUM DATA: GJ085005A15 #1191 418 CHRYSEHE (05#8) <218-01-9>



COMPUCHEM LABS

LIBRARY SEARCH
05/22/86 12:23:00 + 20:04
SAMPLE: 1 UL # 85005 CASE URS EPA C SED

DATA: GJ085005A15 #1333 BASE M/E: 252
ENHANCED (10B 2N 0T) RIC: 6703.

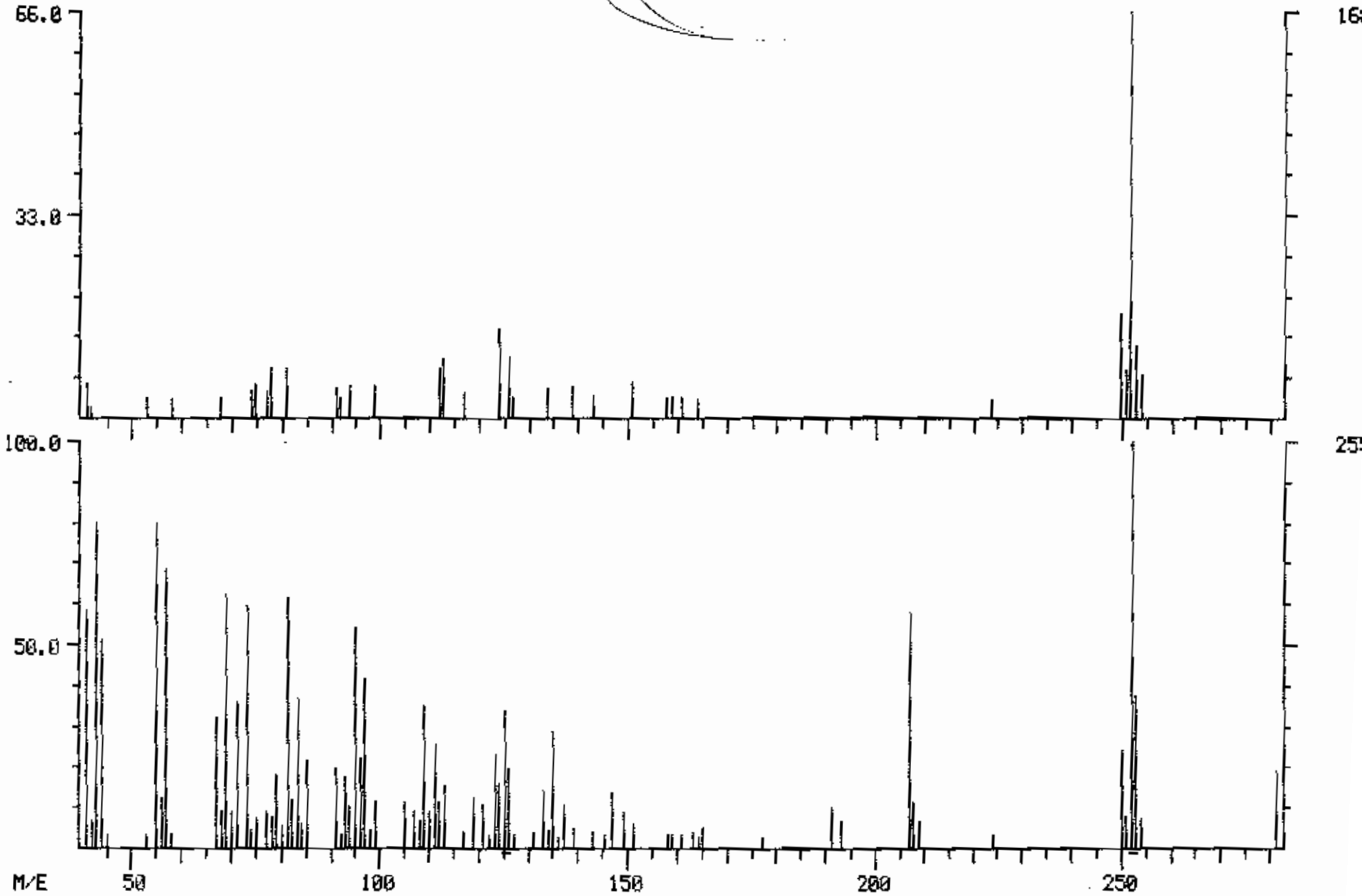


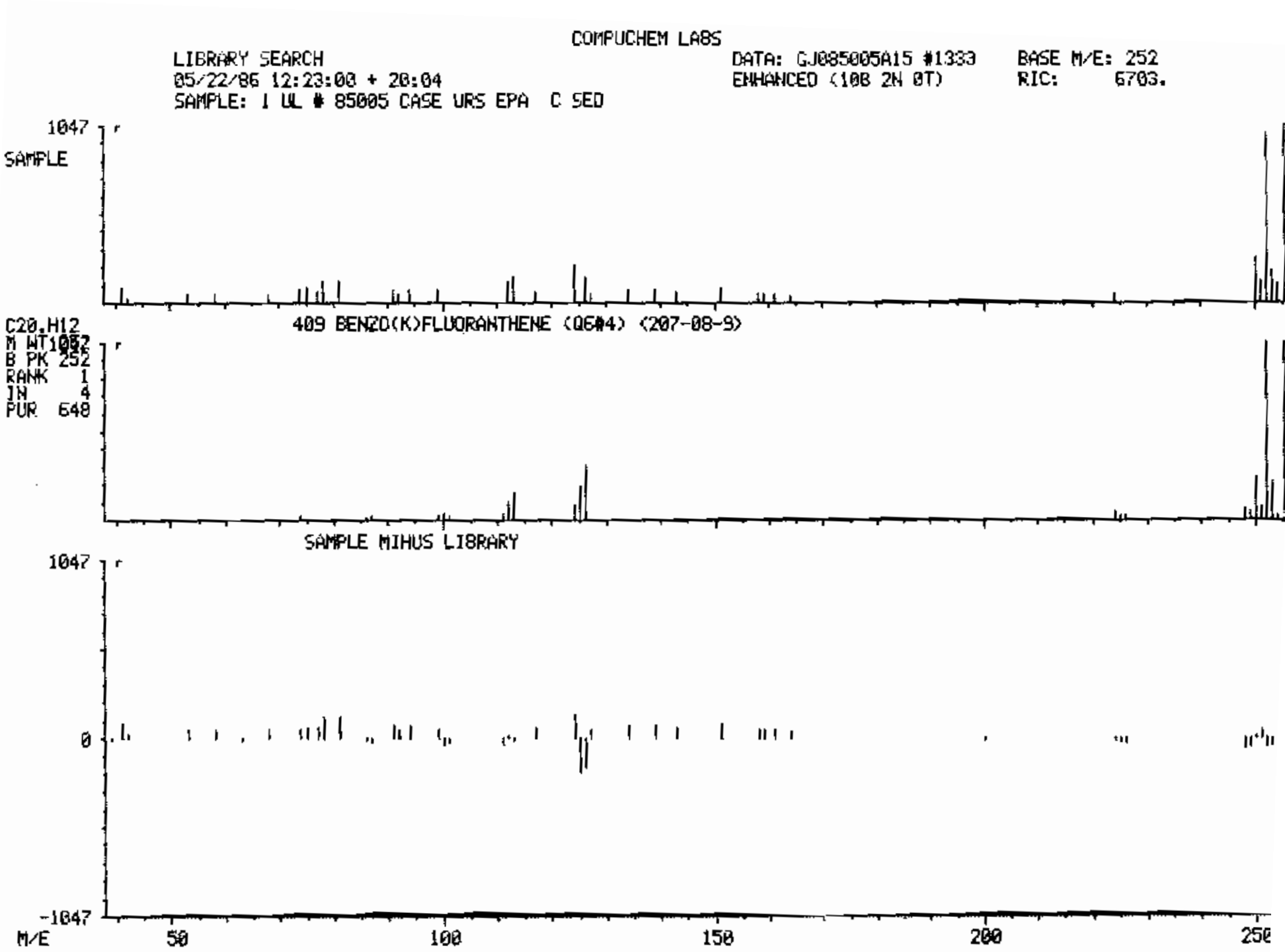
COMPUCHEM LABS

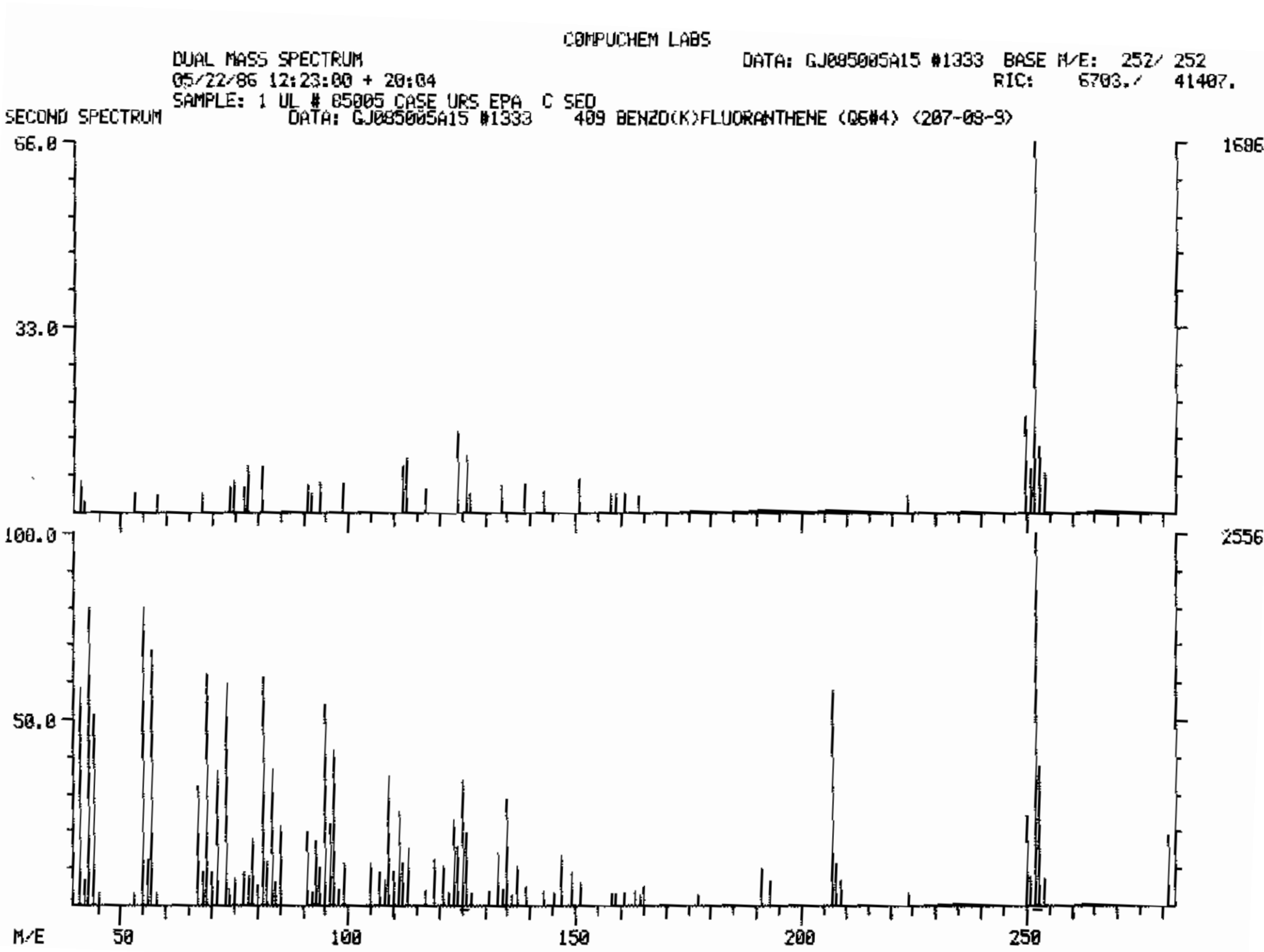
DUAL MASS SPECTRUM
05/22/06 12:23:00 + 20:04
SAMPLE: 1 UL # 05005 CASE URS EPA C SED

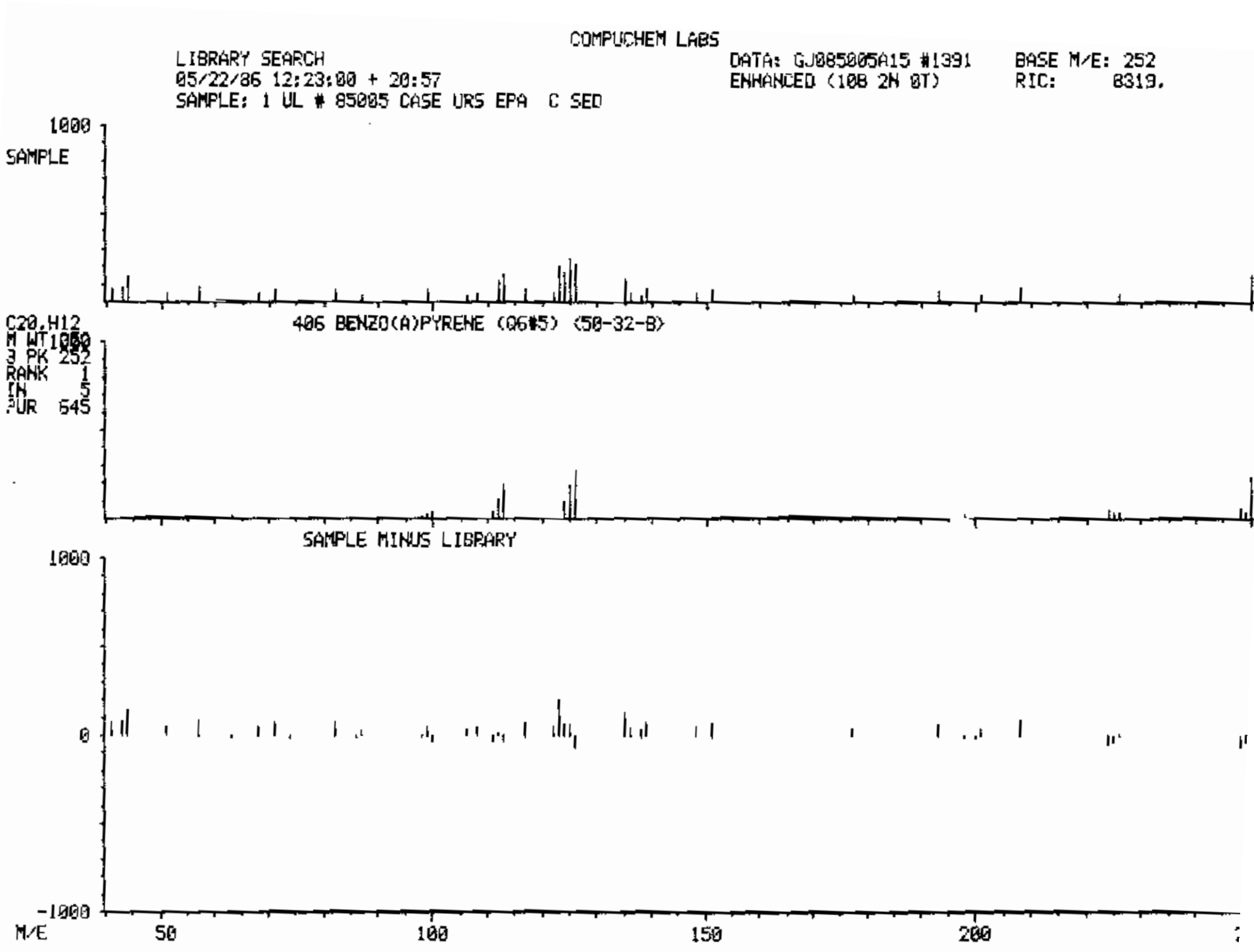
DATA: GJ005005A15 #1333 BASE M/E: 252/ 252
RIC: 6703./ 41407.

SECOND SPECTRUM DATA: GJ005005A15 #1333 407 BENZO(B)FLUORANTHENE (Q5#3) (205-99-2)




COMPUCHEM LABS
LIBRARY SEARCH
05/22/86 12:23:00 + 20:04
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
DATA: GJ085005A15 #1333
ENHANCED (10B 2N 0T)
BASE M/E: 252
RIC: 6703.
1047
SAMPLE
409 BENZO(K)FLUORANTHENE (Q6#4) (207-08-9)
C20,H12
M WT252
B PK 252
RANK 1
IN 4
PUR 648
SAMPLE MINUS LIBRARY
1047
0
-1047
M/E
50
100
150
200
250


COMPUCHEM LABS
DUAL MASS SPECTRUM
05/22/86 12:23:00 + 20:04
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
DATA: GJ085005A15 #1333 BASE M/E: 252/ 252
RIC: 6703./ 41407.
SECOND SPECTRUM
DATA: GJ085005A15 #1333 409 BENZO(K)FLUORANTHENE (Q6#4) (207-08-9)
66.0
33.0
1686
100.0
50.0
2556
M/E
50
100
150
200
250


COMPUCHEM LABS
LIBRARY SEARCH
05/22/86 12:23:00 + 20:57
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
DATA: GJ085005A15 #1391
ENHANCED (10B 2N 0T)
BASE M/E: 252
RIC: 8319.
1000
SAMPLE
406 BENZO(A)PYRENE (06#5) (50-32-8)
C20,H12
M WT
B PK 252
RANK 1
IN 5
PUR 645
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
50
100
150
200

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB'S ONLY IN PLATINUM FORM
CASE#: URS WEST DUE DATE: 6/11/86

VOA
C/MS WORKSHEET COMPUCHEM#: 85005

R1[ ] R2[ ] D1[ ] (:1)
R3[ ] R4[ ] D2[ ] (:1)

LOW LEVEL SOLID

Sample Prep Code---155
Instrument Code----257
Compound List------146
Surrogate Std------394
Internal Std-------036

SAS: EPA#: C-SEDIMENT Dry Weight Factor 2.17

GC/MS ANALYSIS
Amount Purged: [ ] 10mls/Xg soil or [ ]Dilution_____ul/10000ul/Xg soil
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BF860515A18 Disk 2940
Blank Filename GB860515A18 Disk ( )
Standard Filename GT860515A18 Disk ( )
Sample Filename GH085005B18 Disk ( )

ANALYST(S): Injection 941 Work-up_____

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,ES,SM,JS,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR IF,LA,DI,CO,RN,DW,SI,SF UP,BB,OT,VC,FO,NS

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: 0

[ ] Reprep neat required

[ ] Reprep using_____g

Quality Assurance Notice(s):
Notices Required_____

[ ] Dilute (:1)

COMMENTS:

GC/MS Review JWH Date 5/16/86 Auditor_____Date___/___/___

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): GH085005B18

QA COMMENTS:

Initials_____ Date___/___/___

FINAL REVIEW: Initials_____ Date___/___/___

AC387 (09/85)

5/16

CASE#: WRS West DUE DATE:

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 8500SJ

J1( ) R1( ) D1( ) (:1)

J2( ) R2( ) D2( ) (:1)

LOW LEVEL SOLID
Deliverable Code 069

Sample Prep Code--- -717
Instrument Code---255
Compound List---77
Surragate Std---393
Internal Std---035 (added by GC/MS)

SAS: EPA#: C-Sra. Dry Weight Factor 2.17

GC/MS ANALYSIS

Volumes mixed: BN 1 ul Acid 1 ul
Internal Standard Volume Added 2 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 5/3/86
DFTPP Filename [illegible] Disk (3)
Standard Filename [illegible] Disk (/)
Sample Filename [illegible] Disk (/)

ANALYST(S): Injection JJJ Work-up JJJ

GC/MS REVIEW

CONDITION CODE: JA BT

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS
FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,1H,SW,CT,CS,PC,DT,D
ED,1F,LA,DI,CO,RN,DW,NS

Disposition:
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

Extraneous Peak Search Results:
# of Peaks Found: 20

Quality Assurance Notice(s):
Notices Required: 0

COMMENTS: OK 5-22-86

GC/MS Review [signature] Date 5/14/86 Auditor _____ Date ___/___/___

REPORT INTEGRATION Total # of Injections: 2
Final Reportable Package(s): GT-A15

QA COMMENTS:

Initials _____ Date ___/___/___

FINAL REVIEW: Initials _____ Date ___/___/___

5/22/86

EPASOLID (

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB'S ONLY IN PLATINUM FORM
CASE # URB WESTDATE DUE 6/11/86
COMPUCHEM # 85005

PESTICIDE
WORKSHEET

LOW LEVEL SOLID

Sample Prep Code---716
Instrument Code----124
Compound List------177
Surrogate Std------396

SAS: ID#: C-SEDIMENT Dry Weight Factor
Blank Associated with Case _____ _____ _____ 2.17
Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes |___|

Wt. of sample 30.2g final volume of extract 2.0 mls

portion of wt. in pesticide 1

ANALYSIS INFORMATION: COMMENTS |___| Send to QA

Inst. # / |___| QA Approved
Date Sequence Dil. Fact.

BDL

|___| Need QC/MS Confirmation

5-16 7 74 5
5-22 3 32 5

___ ___ ___ ___ Analyst 924/899 Date 5-23-86

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE 2068 X Dilution Factor 5 X 100 = 91 % Recovery
AREA IN STD 15762

% Recovery X 0.1 ug/ml = .091 ug/ml

+EA = re-extract acceptable
JA = reinject acceptable
QA = repeat confirmed original results
OK = original data acceptable (not for REFEATS)
NS = insufficient sample for repeat
DL = DBC low ((20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.

FINAL STATUS CODE+= | ok |

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

|___| QANA |___| QAN3 QA notice included.

SAMPLE DISPOSITION Code

|___| Complete.....

|___| Requires Re-extraction.. 716

|___| Requires reprep..... 930

|___| Requires cleanup..... 901

Audited By _____ Date _____

ENTERED

(19)

VOLATILE PREP WORKSHEET

№ 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
84986	-155	URS WEST			5.07g	5.13.86					ENT
84988	1	1	BS		0ml						
84989	1	1	SS	84986	5.07g						
84990	1	1			5.01g						ENT
84991	1	1	SS	84990	5.01g						
85000	1	1			5.02g						ENT
85001	1	1			5.07g						ENT
85002	1	1			5.00g						ENT
85003	1	1			5.01g						ENT
85004	1	1			5.09						ENT
85005	1	1			5.09						ENT
85028			B		5.0ml	5.13.86					
85029			B		0ml	5.13.86					
			B								

Surrogate No. /

Amount

Lot

MBy 5-13-86

Schedule Reference

Manual Counter 2781 715

(47)

VOLATILE PREP WORKSHEET

№ 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
84986	-158	URS WEST			20.09g	5-13-86			✓		ENT
84987			BS		40 ml				✓		
84990					20.06g				✓		ENT
85000					20.02g				✓		ENT
85001					20.07g				✓		ENT
85002					20.02g				✓		ENT
85003					20.05g				✓		ENT
85004					20.10g				✓		ENT
85005					20.01				✓		ENT
85034			B		40 ml	5-13-86			✓		
85035			B		40 ml	5-13-86			✓		
			B								

REVIEWED 5/14/86

Surrogate No. # 381
Amount 200 µl
Lot 17471

MM 5/13/86

Schedule Reference
Manual Counter 288/472

EXTRACTION WORKSHEET

Semi-Volatiles / Miscellaneous

ASSIGNED TO: Linda L.A.P.

DATE ASSIGNED 5

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
84992	-153	LWSwest	N64	BS		30.00	1ml	—		—			5/13	
84993	-717	LWSwest		BS		30.00	—	0.9		1ml			5/13	
84994		LWSwest		SS	85001	30.55	—	0.9		1ml			5/13	277/499
84995		LWSwest		SS	85001	30.37	—	0.9		1ml			5/13	
84986		LWSwest				30.89	1ml	0.9		1ml			5/13	
84990						30.24	1ml	0.9		1ml			5/13	
85000						30.41	1ml	0.9		1ml			5/13	
85001						30.82	1ml	0.9		1ml			5/13	
85002						30.45	1ml	0.9		1ml			5/13	
85003						30.85	1ml	0.9		1ml			5/13	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17794			17636		
SPIKE	NO.		3012	2021			
	AMT.		1.0ml	1.0ml			
	LOT		17654	17771			

Blanks 85102, 85103 on BB 9782 along w/other samples

MANUAL COUNTER 270/6/13

FINAL VOLUME VERIFIED L.A.P.

SUPERVISOR REVIEWED CL

EXTRACTS RECEIVED BY 5/13/86

Acetone Lot # 309

№ 9781

EXTRACTION WORKSHEET
Semi-Volatiles/Miscellaneous

L.A.T.

ASSIGNED TO:

DATE ASSIGNED 5-7-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV / B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
85004	-717	Ukswgt	NA			30.49	1ml	0.9		10.0			5/13	
85005	↓	↓	↓			30.30	1ml	0.9		10.0			5/13	
85102				B'		30.00	1ml	0.9		10.0			5/13	
85103	↓			B²		30.00	1ml	0.9		10.0			5/13	

Add'l samples on # 9781

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17794			17686		
SPIKE	NO.						
	AMT.						
	LOT						

MANUAL COUNTER 270/613

FINAL VOLUME VERIFIED L.L.P.

SUPERVISOR REVIEWED [initials]

EXTRACTS RECEIVED BY [initials] 5/13/86

Acetone Lot # 209

№ 9782

EXTRACTION WORKSHEET

Pesticide/Herbicide

ASSIGNED TO: L[illegible] 11

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ALUMINIA COLUMN START VOL	ALUMINIA COLUMN FINAL VOL	DATE COMPT	COMMENTS
84992	153	UKSwat	NIT	BS		30.00	1.1	—		—		2x1ml		
84993	716	UKSwet		BS		30.00	—	0.9		1.0				
84994		UKSwat		SS	85001	30.58	—	0.9		1.0				2774/84
84995		UKSwat		SS	85001	30.38	—	0.9		1.0				
84986		UKSwat	A-SEDIMENT			30.84	1.1	0.9		1.0	1.0ml	2.0ml	5-14-86	
84990			B-SEDIMENT			30.24	1.1	0.9		1.0	1.0	2.0	5-14	
85000			D-SEDIMENT			30.41	1.1	0.9		1.0	1.0	2.0	5-14	
85001			E-SEDIMENT			30.85	1.1	0.9		1.0	1.0	2.0	5-14	
85002			F-SEDIMENT			30.45	1.1	0.9		1.0	1.0	2.0	5-14	
85003			G-SEDIMENT			30.85	1.1	0.9		1.0	1.0	2.0	5-14	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17774			17686		
SPIKE	NO.		3[illegible]	7671			
	AMT.		1ml	1.0ml			
	LOT		17657	17777			

Blank 85102 / 85103 ? on Pg 9782 along w/other samples
CASE — BW 05/14/86

MANUAL COUNTER 370 6/13

FINAL VOLUME VERIFIED L.A.P.

SUPERVISOR REVIEWED CKB

EXTRACTS RECEIVED BY [illegible] 9/13/86

Acetone Lot # 309

Alumina Batch 5-13-86-AL

POSTED 5-14-86 OKS

№ 9787

EXTRACTION WORKSHEET
Pesticide/Herbicide

ASSIGNED TO: [illegible]

DATE ASSIGNED 5/13/86

PAGE ____ OF ____

OKS

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ALUMINA COLUMN START VOL	ALUMINA COLUMN FINAL VOL	DATE COMPT	COMMENTS
85604	-7160	UASWEST	H-SEDIMENT NA			30.00	1.1			10.0	1.0mL	2.0mL	5/14/86	
85005		UAS WEST	C-SEDIMENT			30.20	1.1			10.0	1.0	2.0	5/14	
85102				B		30.00	1.1			10.0	1.0mL	2.0mL	5/14/86	
85103				B		30.00	1.1			10.0	1.0	2.0	5/14	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	25 µl			2 µl		
	LOT	17794			17686		
SPIKE	NO.						
	AMT.						
	LOT						

Add'n samples on # 9781
CASE ✓ BW 05/14/86

POSTED 5-14-86 OES

MANUAL COUNTER 570/613

FINAL VOLUME VERIFIED LEP

SUPERVISOR REVIEWED [initials]

EXTRACTS RECEIVED BY [signature] 5/13/86

Acetone Lot # 309
Alumina Batch 5-13-86-AL

№ 9785

COMPUCHEM # 085005 FILE: CH085005B18 COMPOUND LIST 146 PAGE 1
VOLATILE - LOW LEVEL SOLID

TMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
234	128	I	BROMOCHLOROMETHANE (IS) <75	194	56500.	50.0		
221	50		CHLOROMETHANE <75-01-4> E5#				BDL	21.
220	94		BROMOMETHANE <78-83-9> E5#3				BDL	21.
231	62		VINYL CHLORIDE <75-01-4> E5				BDL	21.
209	64		CHLOROETHANE <75-00-3> E5#5				BDL	21.
222	84		METHYLENE CHLORIDE <75-09-2			5.3	11.	11.
252	43		ACETONE (2-PROPANONE) <67-6			75.2	160. B	21.
254	76		CARBON DISULFIDE <75-15-0>				BDL	11.
216	96		1,1-DICHLOROETHYLENE <75-35				BDL	11.
214	63		1,1-DICHLOROETHANE <75-34-3				BDL	11.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	11.
211	83		CHLOROFORM <67-66-3> E5#12			2.6	J	11.
215	62		1,2-DICHLOROETHANE <107-06-				BDL	11.
248	114	I	1,4-DIFLUOROBENZENE (I6) <5	401	228000.	50.0		
253	72		2-BUTANONE <78-93-3> E6#2			~~10.2~~	~~22~~ BDL	21.
227	97		1,1,1-TRICHLOROETHANE <71-5				BDL	11.
206	117		CARBON TETRACHLORIDE <56-23				BDL	11.
257	43		VINYL ACETATE <108-05-4> E6				BDL	21.
212	83		BROMODICHLOROMETHANE <75-27				BDL	11.
217	63		1,2-DICHLOROPROPANE <78-87-				BDL	11.
250	75		TRANS-1,3-DICHLOROPROPENE <				BDL	11.
229	130		TRICHLOROETHYLENE <79-01-6>				BDL	11.
208	129		CHLORODIBROMOMETHANE <124-4				BDL	11.
28	97		1,1,2-TRICHLOROETHANE <79-0				BDL	11.
13	78		BENZENE <71-43-2> E6#12				BDL	11.
218	75		CIS-1,3-DICHLOROPROPENE <1D				BDL	11.
210	63		2-CHLOROETHYL VINYL ETHER <				BDL	21.
205	173		BROMOFORM <75-25-2> E6#15				BDL	11.
270	117	I	D5-CHLOROBENZENE (IS)	503	214000.	50.0		
256	43		4-METHYL-2-PENTANONE <108-1				BDL	21.
255	43		2-HEXANONE <591-78-6> E7#3				BDL	21.
224	164		TETRACHLOROETHENE <127-18-4				BDL	11.
223	83		1,1,2,2-TETRACHLOROETHANE <				BDL	11.
225	92		TOLUENE <108-88-3> E7#6				BDL	11.
207	112		CHLOROBENZENE <108-90-7> E7				BDL	11.
219	106		ETHYLBENZENE <100-41-4> E7#				BDL	11.
251	104		STYRENE <100-42-5> E7#9				BDL	11.
240	106		M-XYLENE E7#10				BDL	11.
271	106		O,P-XYLENE E7#11				BDL	11.
258	65	S	D4-1,2-DICHLOROETHANE E8#2			45.8	92.%	
247	95	S	BROMOFLUOROBENZENE <460-00-			47.8	96.%	
233	98	S	D8-TOLUENE E8#4			46.8	94.%	
CHECKSUMS:								
2428.	899			1098	498500.	383.7	475.	

VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE E8#2	45.8	50.0	92.	70-121	X	
41	247	BROMOFLUOROBENZENE <460-OD-	47.8	50.0	96.	74-121	X	
42	233	D8-TOLUENE E8#4	46.8	50.0	94.	81-117	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#1) BROMOCHLOROMETHANE > 10000 COUNTS	✓	

CORRECTION FACTOR CALCULATION:

$$\frac{5.0\ G}{\text{WET WEIGHT OF SAMPLE (G)}} \times \text{GC/MS DILUTION FACTOR} \times \text{DRY WEIGHT FACTOR} =$$

$$\frac{5.0\ G}{5.09\ (G)} \times \frac{1.0}{} \times \frac{2.2}{} = 2.130$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

SEMI-VOLATILE - LOW LEVEL SOLID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
								X2.17
494	152	I	04-1,4-DICHLOROBENZENE (IS#	485	75300.	40.0		
610	94		PHENOL (Q1#3) <108-95-2>				BDL	~~340.~~
411	93		BIS(2-CHLORDETHYL)ETHER (Q1			~~3.3~~	~~J BDL~~	340.
601	128		2-CHLOROPHENOL (Q1#6) <95-5				BDL	340.
421	146		1,3-DICHLOROBENZENE (Q1#7)				BDL	340.
422	146		1,4-DICHLOROBENZENE (Q1#8)				BDL	340.
474	108		BENZYL ALCOHOL (Q1#9) <100-				BDL	340.
420	146		1,2-DICHLOROBENZENE (Q1#10)				BDL	340.
620	108		2-METHYLPHENOL (Q1#11) <95-				BDL	340.
412	45		BIS(2-CHLORDISOPROPYL)ETHER				BDL	340.
622	108		4-METHYLPHENOL (Q1#13) <106				BDL	340.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	340.
436	117		HEXACHLOROETHANE (Q1#15) <6				BDL	340.
440	77		NITROBENZENE (Q1#16) <98-95				BDL	340.
460	136	I	D8-NAPHTHALENE (IS#2)	603	305000.	40.0		
438	82		ISOPHORONE (Q2#2) <78-59-1>				BDL	340.
606	139		2-NITROPHENOL (Q2#3) <88-75				BDL	340.
603	122		2,4-DIMETHYLPHENOL (Q2#4) <				BDL	340.
625	122		BENZOIC ACID (Q2#5) <65-85-				BDL	~~1700.~~
110	93		BIS(2-CHLORDETHOXY)METHANE				BDL	340.
402	162		2,4-DICHLOROPHENOL (Q2#7) <				BDL	340.
446	180		1,2,4-TRICHLOROBENZENE (Q2#				BDL	340.
439	128		NAPHTHALENE (Q2#9) <91-20-3				BDL	340.
475	127		4-CHLOROANILINE (Q2#10) <10				BDL	340.
434	225		HEXACHLOROBUTADIENE (Q2#11)				BDL	340.
608	107		P-CHLORO-M-CRESOL (Q2#12) <				BDL	340.
477	142		2-METHYLNAPHTHALENE (Q2#13)				BDL	340.
495	164	I	D10-ACENAPHTHENE (IS#3)	776	113000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	340.
611	196		2,4,6-TRICHLOROPHENOL (Q3#3				BDL	340.
626	196		2,4,5-TRICHLOROPHENOL (Q3#4				BDL	1700.
416	162		2-CHLORONAPHTHALENE (Q3#5)				BDL	340.
478	65		2-NITROANILINE (Q3#6) <88-7				BDL	1700.
425	163		DIMETHYL PHTHALATE (Q3#7) <				BDL	340.
402	152		ACENAPHTHYLENE (Q3#8) <208-				BDL	340.
479	138		3-NITROANILINE (Q3#9) <99-0				BDL	1700.
401	153		ACENAPHTHENE (Q3#10) <83-32				BDL	340.
605	184		2,4-DINITROPHENOL (Q3#11) <				BDL	1700.
607	139		4-NITROPHENOL (Q3#12) <100-				BDL	1700
476	168		DIBENZOFURAN (Q3#13) <132-6				BDL	340
427	89		2,4-DINITROTOLUENE (Q3#14)				BDL	340
428	165		2,6-DINITROTOLUENE (Q3#15)				BDL	340
424	149		DIETHYL PHTHALATE (Q3#16) <				BDL	340
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	340
432	166		FLUORENE (Q3#18) <86-73-7>				BDL	340
80	138		4-NITROANILINE (Q3#19) <100				BDL	1700
467	188	I	D10-PHENANTHRENE (IS#4)	921	126000.	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	1700
443	169		N-NITROSODIPHENYLAMINE (Q4#				BDL	340
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	340
433	284		HEXACHLOROBENZENE (Q4#5) <1				BDL	340
			PENTACHLOROPHENOL (Q4#6) <8				BDL	1700

403 178 ANTHRACENE (Q4#8) <120-12-7 ~~8.9~~ ~~0~~ BDL ~~340.~~

COMPUCHEM # 085005 FILE: GJOS5005A15 COMPOUND LIST 172 PAGE 2
SEMI-VOLATILE - LOW LEVEL SOLID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)		DETECT. LIMIT (UG/KG) x2.17
426	149		DI-N-BUTYL PHTHALATE (Q4#9)				BDL		340.
431	202		FLUORANTHENE (Q4#10) <206-4			8.3	J		340.
459	240	I	D12-CHRYSENE (IS#5)	1188	79000.	40.0			
445	202		PYRENE (Q5#3) <129-00-0>			7.7	J		340.
415	149		BUTYLBENZYL PHTHALATE (Q5#4				BDL		340.
423	252		3,3'-DICHLOROBENZIDINE (Q5#				BDL		~~670~~
405	228		BENZO(A)ANTHRACENE (Q5#6) <			~~3.5~~	J		340.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE			~~1.0~~	J		340.
418	228		CHRYSENE (Q5#8) <218-01-9>			~~3.6~~ 4.0	J		340.
497	264	I	D12-PERYLENE (IS#6)	1401	135000.	40.0			
429	149		DI-N-OCTYL PHTHALATE (Q6#2)				BDL		340.
407	252		BENZO(B)FLUORANTHENE (Q6#3)			~~1.9~~ 3.5	J		340.
409	252		BENZO(K)FLUORANTHENE (Q6#4)			~~1.6~~ 3.5	J		340.
406	252		BENZO(A)PYRENE (Q6#5) <50-3			1.6	J		340.
437	276		INDENO(1,2,3-C,D)PYRENE (Q6				BDL		340.
419	278		DIBENZO(A,H)ANTHRACENE (Q6#				BDL		340.
408	276		BENZO(G,H,I)PERYLENE (Q6#5)				BDL		340.
619	112	S	2-FLUOROPHENOL (SS#1)			79.3 ~~72.5~~	81 ~~74.~~ %		
612	99	S	D5-PHENOL (SS#2)			80.1 ~~73.3~~	81 ~~74.~~ %		
47	82	S	D5-NITROBENZENE (SS#3)			26.8 ~~24.5~~	54 ~~50.~~ %		
48	172	S	2-FLUOROBIPHENYL (SS#4)			45.2 ~~41.4~~	92 ~~84.~~ %		
628	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			58.7 ~~53.7~~	60 ~~55.~~ %		
496	244	S	D14-TERPHENYL (SS#6)			35.8 ~~32.7~~	73 ~~66.~~ %		
471	212	S	D10-PYRENE			38.0 ~~34.7~~	77 ~~70.~~ %		
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL		34.
CHECKSUMS:									
11185.	4420			5374	833300.	615.9		473.	

SEMI-VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
72	619	2-FLUOROPHENOL (SS#1)	~~72.5~~ 79.3	98.3	~~74~~ 81	26-121	X	
73	612	D5-PHENOL (SS#2)	~~73.8~~ 80.1	98.3	~~74~~ 81	24-113	X	
74	447	D5-NITROBENZENE (SS#3)	~~24.5~~ 26.8	49.2	~~50~~ 54	23-120	X	
75	448	2-FLUOROBIPHENYL (SS#4)	~~41.4~~ 45.2	49.2	~~84~~ 92	30-115	X	
76	628	2,4,6-TRIBROMOPHENOL (SS#5)	~~59.7~~ 58.7	98.3	~~55~~ 60	18-123	X	
77	496	D14-TERPHENYL (SS#6)	~~32.7~~ 35.8	49.2	~~66~~ 73	18-137	X	
78	471	D10-PYRENE	~~34.7~~ 38.0	49.2	~~70~~ 77	33-128*	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ✓ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{SPLIT FACTOR (*)}} \times \frac{30.0\text{G}}{\text{AMOUNT EXTRACTED(G)}} \times \frac{\text{DRY WEIGHT}}{\text{FACTOR}} \times \frac{\text{GC/MS DILUTION}}{\text{FACTOR}} \times 33.3 =$$

$$\frac{0.9\text{ML}}{0.885} \times \frac{30.0\text{G}}{30.20\text{G}} \times \frac{\cancel{1.0}\ 2.17}{} \times \frac{1.0}{} \times 33.3 = \cancel{33.700}\ 73.1$$

* SPLIT FACTOR = (295/300)(9/10) IF PEST/TCDD VOLUMES ARE INDICATED ON LOG
= 1 IF PEST/TCDD VOLUMES ARE NOT INDICATED ON EXTRACTION LOG

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{\text{1000 UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{SPLIT FACTOR}} \times \frac{\text{GCMS DILUTION}}{\text{FACTOR}} =$$

$$\frac{1000\text{ UL}}{500\text{ UL}} \times \frac{0.9\text{ML}}{0.885\text{ML}} \times \frac{1.0}{} = 2.030 \quad ✓$$

COMPOUND LIST NO. - 177

COMPUCHEM # 85005 DATE

IDENTIFIER PESTICIDES (LOW LEVEL SOLID)

DIL FACT_____DRY WT_____ _30__SPLIT_____FINAL VOL_____/5 = 2.16

AMT SAMPLE_____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/kg
1.	0701	ALDRIN----------		8.0
2.	0702	ALPHA-BHC----------		8.0
3.	0703	BETA-BHC----------		8.0
4.	0704	GAMMA-BHC----------		8.0
5.	0705	DELTA-BHC----------		8.0
6.	0706	TECHNICAL CHLORDANE------		80.0
7.	0707	4,4'-DDT----------		16.0
8.	0708	4,4'-DDE----------		16.0
9.	0709	4,4'-DDD----------		16.0
10.	0710	DIELDRIN----------		16.0
11.	0711	ENDOSULFAN I ----------		8.0
12.	0712	ENDOSULFAN II ----------		16.0
13.	0713	ENDOSULFAN SULFATE-------		16.0
14.	0714	ENDRIN----------		16.0
15.	0739	ENDRIN KETONE----------		16.0
16.	0716	HEPTACHLOR----------		8.0
17.	0717	HEPTACHLOR EPOXIDE-------		8.0
18.	0726	METHOXYCHLOR----------		80.0
19.	0724	AROCHLOR 1016----------		80.0
20.	0720	AROCHLOR 1221----------		80.0
21.	07E1	AROCHLOR 1232----------		80.0
22.	0718	AROCHLOR 1242----------		80.0
23.	0722	AROCHLOR 1248----------		80.0
24.	0719	AROCHLOR 1254----------		160.0
25.	0723	AROCHLOR 1260----------		160.0
26.	0725	TOXAPHENE----------		160.0

30L

ANALYST'S COMMENTS:

GC SCREEN DATA SHEET

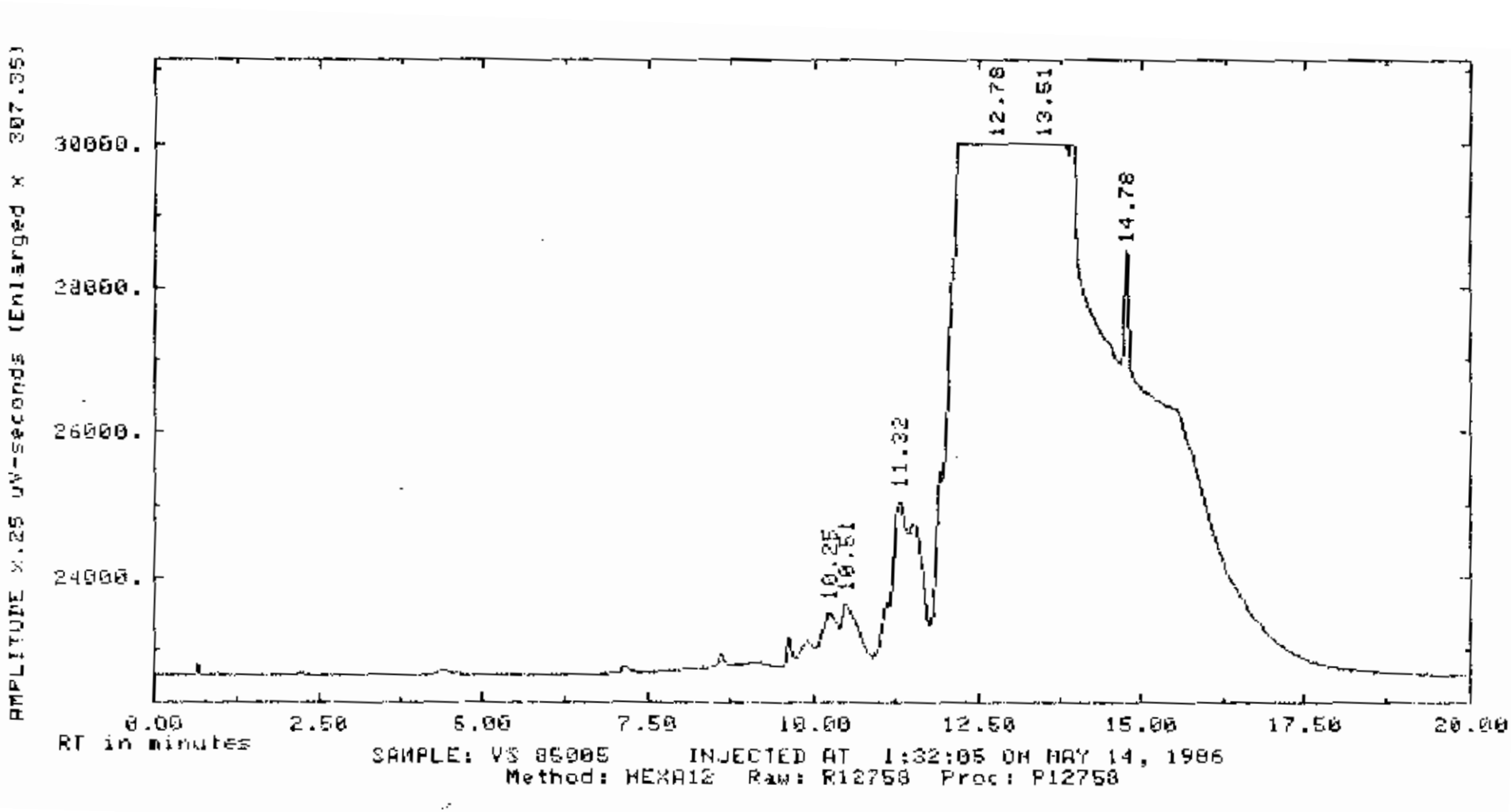
Laboratory Name CompuChem

Case Number URS WEST

Sample ID Number	Fraction	GC Detectable* Medium Level	Date of Screen	Level of GC/MS Analysis**
C-SEDIMENT	VOA	N/O	5/14/86	L
	B/N/A	N/O	5/16/86	L
	Pesticides			
4500G	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			

*Answer Yes or No

**Indicate "M" for Medium Level GC/MS analysis.
Indicate "L" for Low Level GC/MS analysis.


AMPLITUDE X.25 uV-seconds (Enlarged x 307.35)
30000.
28000.
26000.
24000.
12.78
13.51
14.78
11.32
10.25
10.51
0.00
2.50
5.00
7.50
10.00
12.50
15.00
17.50
20.00
RT in minutes
SAMPLE: VS 85005 INJECTED AT 1:32:05 ON MAY 14, 1986
Method: HEXA12 Raw: R12758 Proc: P12758

Report: 107.00 Channel: 12

Sample: VS 85005 Injected at 1:32:05 ON MAY 14, 1986

ZERO Method: HEXAi2 Seq: SEQ127 Subsq/Samp: 1/58 Bil: 58

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	100	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	ZRTW	IDil-F	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 20.008 minutes

RT	ITM	Factor	Area		AREA %	Name
10.25	0.00	.10000E+01	1697.	BB	.013	
10.51	0.00	.10000E+01	2811.	BH	.022	
11.32	0.00	.10000E+01	24714.	HH	.194	
12.78	0.00	.10000E+01	6.	HS	0.000	
13.51	0.00	.10000E+01	12692544.	BV	99.744	
14.78	0.00	.10000E+01	3357.	VB	.026	

Total Area = 12725122. Total AREA % = 3356.688

Processed data file: P12758 Raw data file: R12758

PLIST7

SCREEN WORKSHEET

Compound # 85005

Sample Prep Code-153_

Instrument Code__122__

ANALYSIS INFORMATION

COMMENT:

Date	Inst	File Name	Dilution Fact.
5/16	6	P6386	1
___	___	_____	___

Analyst 865 Date 5/16/86

RESULTS

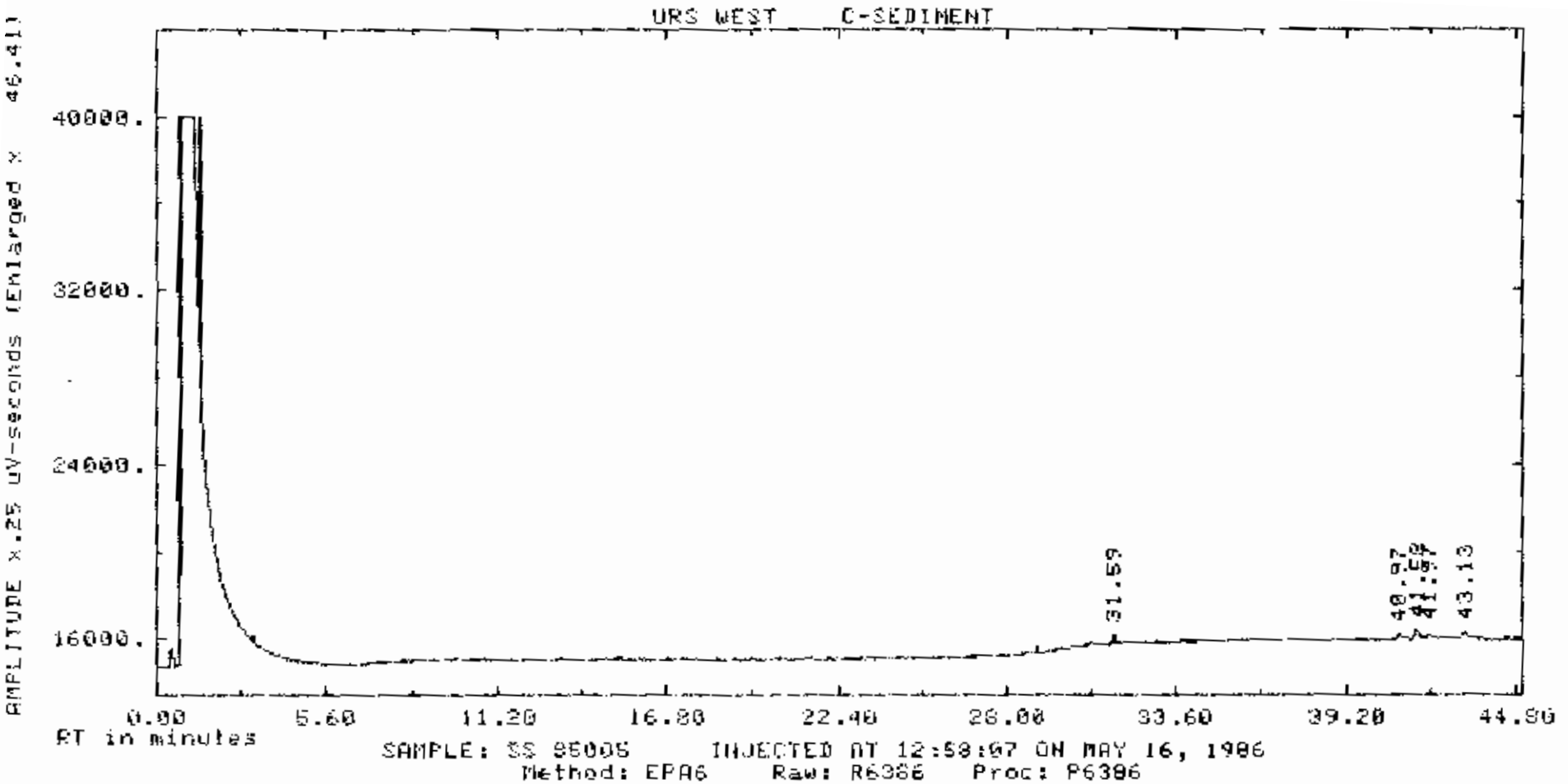
Area of 50ng Phenanthrene 66047

Area of Largest peak in sample 3751

Phenanthrene / Largest Peak = 18

[X] Ratio > 5.0 Analyze low level extract
Suggested dilution for GC/MS analysis 1:___ (up to 1:5)

[ ] Ratio < 5.0 Prepare medium level extract
Schedule Analysis code 300 and 384
Suggested dilution for GC/MS analysis 1:___


URS WEST C-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 46.41)
40000.
32000.
24000.
16000.
31.59
40.97
41.69
43.13
0.00
5.60
11.20
16.80
22.40
28.00
33.60
39.20
44.80
RT in minutes
SAMPLE: SS 85005 INJECTED AT 12:58:07 ON MAY 16, 1986
Method: EPA6 Raw: R6386 Proc: P6386

Report: 96.00 Channel: 6 URS WEST C-SEDIMENT

Sample: SS 85005 Injected at 12:58:07 ON MAY 16, 1986

ZERO Method: EPA6 Seq: SEQ63 Subsq/Samp: 1/86 Btl. 86

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.250	.300	3.00	1000	

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	100.00	NO

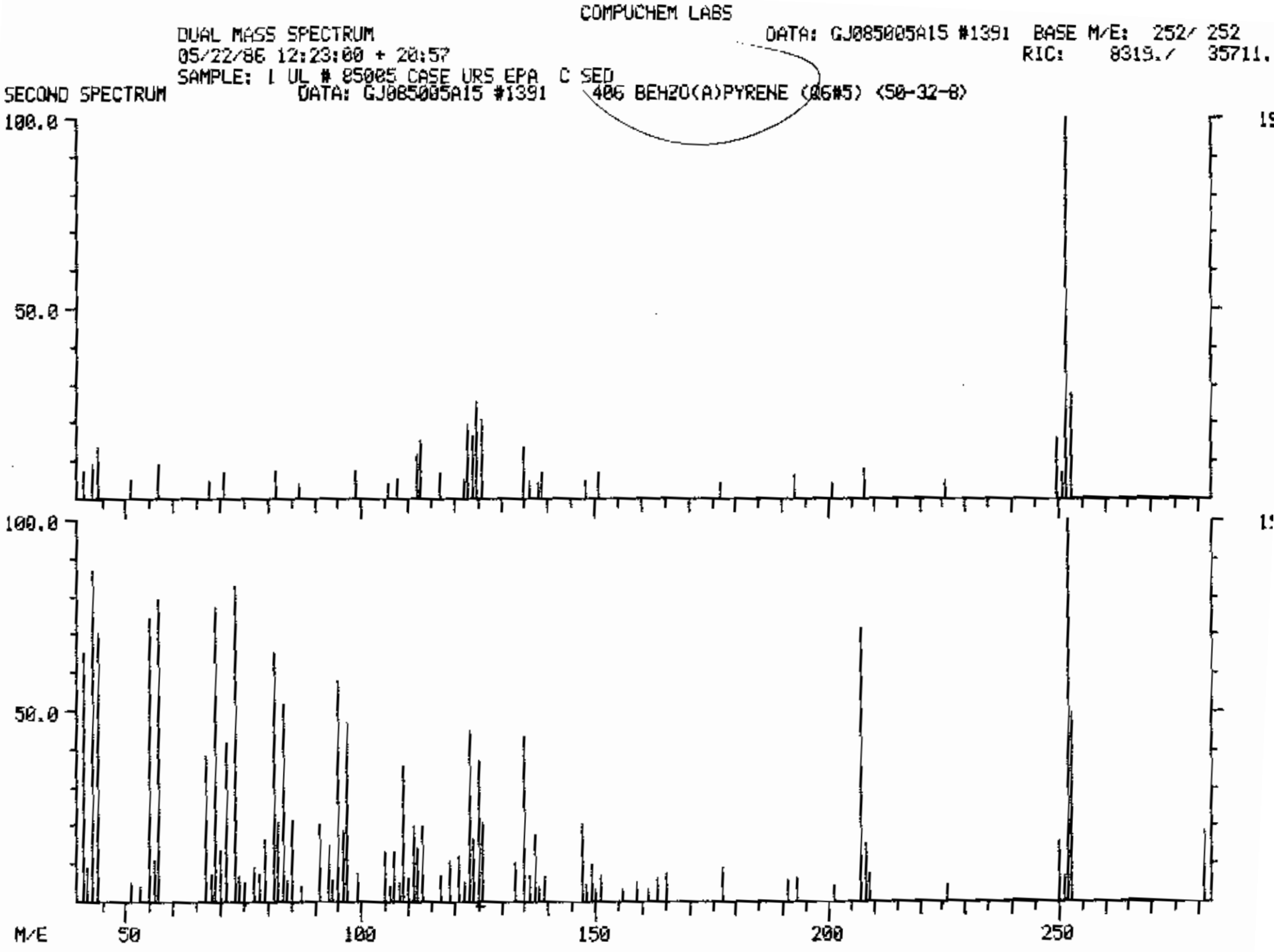
Actual run time: 45.012 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
31.59	0.00	.10000E+01	1636. BB	15.604	
40.97	0.00	.10000E+01	1277. BB	12.178	
41.58	0.00	.10000E+01	3751. BB	35.773	
41.97	0.00	.10000E+01	1211. BB	11.554	
43.13	0.00	.10000E+01	2610. BB	24.891	

Total Area = 10485. Total AREA % = 2609.813

Processed data file: P6386 Raw data file: R6386


COMPUCHEM LABS
DUAL MASS SPECTRUM
05/22/86 12:23:00 + 20:57
SAMPLE: L UL # 85005 CASE URS EPA C SED
DATA: GJ085005A15 #1391 BASE M/E: 252/ 252
RIC: 8319./ 35711.
SECOND SPECTRUM
DATA: GJ085005A15 #1391 406 BEHZO(A)PYRENE (86#5) <50-32-8>
100.0
50.0
100.0
50.0
M/E
50
100
150
200
250

QUANTITATION REPORT FILE: STND

DATA: GJ085005A15.TI
05/22/86 12:23:00
SAMPLE: 1 UL # S5005 CASE URS EPA C SED
CONDS. :
SUBMITTED BY: 15 ANALYST: 577

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	485	7:18	2	0.804	A VV	622215.	77.838	18.46
2	RIC	603	9:05	2	1.000	A BB	799376.	100.000	23.72
3	RIC	776	11:41	2	1.287	A VV	644862.	80.671	19.14
4	RIC	922	13:53	2	1.529	A BV	722736.	90.413	21.45
5	RIC	1188	17:53	2	1.970	A BB	352416.	44.086	10.46
6	RIC	1401	21:06	2	2.323	A BB	228192.	28.546	6.77

QUANTITATION REPORT FILE: UNKNOWN

DATA: GJ085005A15.TI
05/22/86 12:23:00
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:
SUBMITTED BY: 15 ANALYST: 577

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

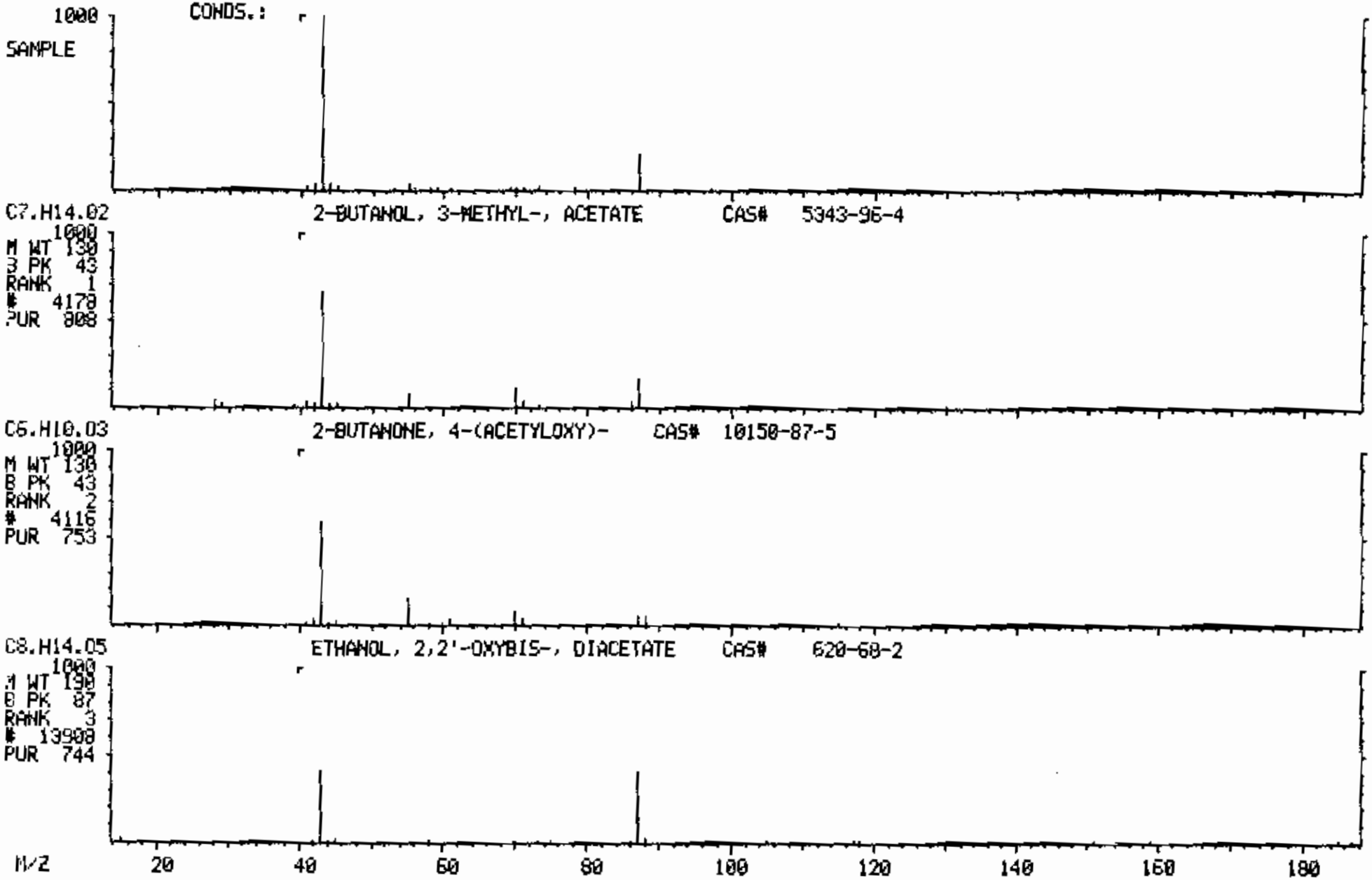
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	462	6:57	57	0.252	A VB	69056.	2.186	0.32
2	RIC	477	7:11	57	0.260	A BV	187484.	5.936	0.86
3	RIC	767	11:33	57	0.418	A BV	122747.	3.886	0.56
4	RIC	780	11:45	57	0.426	A VB	437224.	13.842	2.01
5	RIC	796	11:59	57	0.434	A BV	176113.	5.576	0.81
6	RIC	817	12:18	57	0.446	A BB	117440.	3.718	0.54
7	RIC	835	12:34	57	0.456	A VB	118505.	3.752	0.54
8	RIC	842	12:41	57	0.459	A BB	140032.	4.433	0.64
9	RIC	868	13:04	57	0.474	A VB	536234.	16.976	2.46
10	RIC	885	13:20	57	0.483	A VB	40485.	1.282	0.19
11	RIC	889	13:23	57	0.485	A BB	132608.	4.198	0.61
12	RIC	902	13:35	57	0.492	A BV	205824.	6.516	0.94
13	RIC	907	13:40	57	0.495	A VV	195072.	6.176	0.89
14	RIC	914	13:46	57	0.499	A VV	589568.	18.665	2.70
15	RIC	930	14:00	57	0.507	A VB	92416.	2.926	0.42
16	RIC	936	14:06	57	0.511	A BV	77568.	2.456	0.36
17	RIC	949	14:18	57	0.518	A VV	873216.	27.645	4.00
18	RIC	958	14:26	57	0.523	A VV	114688.	3.631	0.53
19	RIC	962	14:29	57	0.525	A VB	84480.	2.675	0.39
20	RIC	968	14:35	57	0.529	A BV	114688.	3.631	0.53
21	RIC	974	14:40	57	0.531	A VV	656896.	20.796	3.01
22	RIC	985	14:50	57	0.537	A VV	754688.	23.892	3.46
23	RIC	991	14:55	57	0.541	A VV	279552.	8.850	1.28
24	RIC	998	15:02	57	0.544	A VV	722944.	22.887	3.32
25	RIC	1006	15:09	57	0.549	A VV	674816.	21.364	3.09
26	RIC	1017	15:19	57	0.555	A VV	391168.	12.384	1.79
27	RIC	1022	15:23	57	0.558	A VB	710144.	22.482	3.26
28	RIC	1043	15:42	57	0.569	A BB	165248.	5.232	0.76
29	RIC	1060	15:56	57	0.578	A BB	79872.	2.529	0.37
30	RIC	1088	16:23	57	0.594	A VV	93771.	2.969	0.43
31	RIC	1101	16:35	57	0.601	A VB	98063.	3.105	0.45
32	RIC	1127	16:58	57	0.615	A VB	58496.	1.852	0.27
33	RIC	1134	17:05	57	0.619	A BV	138880.	4.397	0.64
34	RIC	1167	17:34	57	0.637	A VV	540898.	17.124	2.48
35	RIC	1201	18:05	57	0.655	A BV	106220.	3.363	0.49
36	RIC	1242	18:42	57	0.678	A VV	1412250.	44.710	6.48
37	RIC	1259	18:58	57	0.687	A VB	94667.	2.997	0.43
38	RIC	1288	19:24	57	0.703	A BV	75381.	2.386	0.35
39	RIC	1311	19:45	57	0.715	A BB	243360.	7.704	1.12
40	RIC	1343	20:14	57	0.733	A BV	1864830.	59.038	8.55
41	RIC	1358	20:27	57	0.741	A VB	41560.	1.316	0.19
42	RIC	1443	21:44	57	0.787	A BV	74537.	2.360	0.34
43	RIC	1475	22:13	57	0.805	A BB	48544.	1.537	0.22
44	RIC	1487	22:24	57	0.811	A BB	82496.	2.612	0.38
45	RIC	1497	22:33	57	0.817	A BV	115928.	3.670	0.53
46	RIC	1511	22:45	57	0.824	A VB	44168.	1.398	0.20

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
47	RIC	1533	23:05	57	0.836	A BV	93064.	2.946	0.43
48	RIC	1550	23:21	57	0.846	A VB	227304.	7.196	1.04
49	RIC	1571	23:40	57	0.857	A BV	52045.	1.648	0.24
50	RIC	1583	23:50	57	0.864	A VB	51043.	1.616	0.23
51	RIC	1613	24:17	57	0.880	A BV	38469.	1.218	0.18
52	RIC	1689	25:26	57	0.921	A BV	78445.	2.483	0.36
53	RIC	1727	26:00	57	0.942	A VB	69601.	2.203	0.32
54	RIC	1751	26:22	57	0.955	A BB	65408.	2.071	0.30
55	RIC	1797	27:04	57	0.980	A BV	828896.	26.242	3.80
56	RIC	1803	27:09	57	0.984	A VB	1261630.	39.942	5.79
57	RIC	1833	27:36	57	1.000	A BV	3158680.	100.000	14.49
58	RIC	1851	27:53	57	1.010	A VB	1131230.	35.813	5.19
59	RIC	1873	28:12	57	1.022	A BB	753024.	23.840	3.45

COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 7:11
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A15 # 477 BASE M/Z: 43
ENHANCED (10B 2N 0T) RIC: 69631.



C7.H14.02 2-BUTANOL, 3-METHYL-, ACETATE CAS# 5343-96-4

1000
M WT 130
B PK 43
RANK 1
4178
PUR 808

C6.H10.03 2-BUTANONE, 4-(ACETYLOXY)- CAS# 10150-87-5

1000
M WT 130
B PK 43
RANK 2
4116
PUR 753

C8.H14.05 ETHANOL, 2,2'-OXYBIS-, DIACETATE CAS# 620-68-2

1000
M WT 190
B PK 87
RANK 3
13908
PUR 744

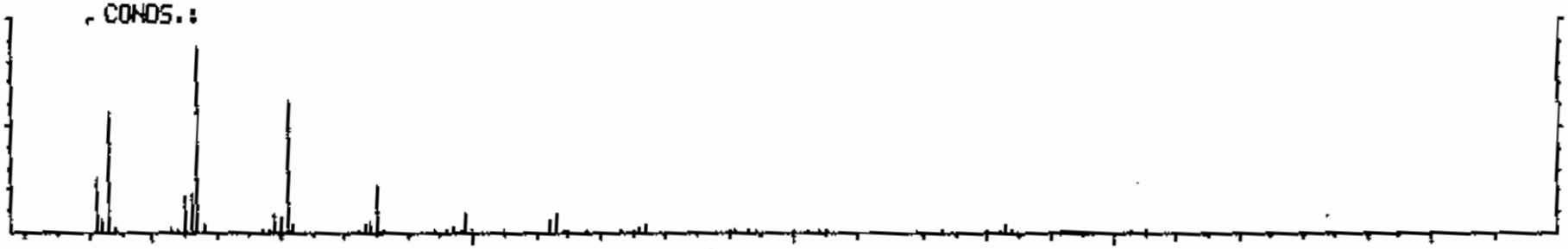
COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 13:04
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A15 # 868
ENHANCED (10B 2N 0T)

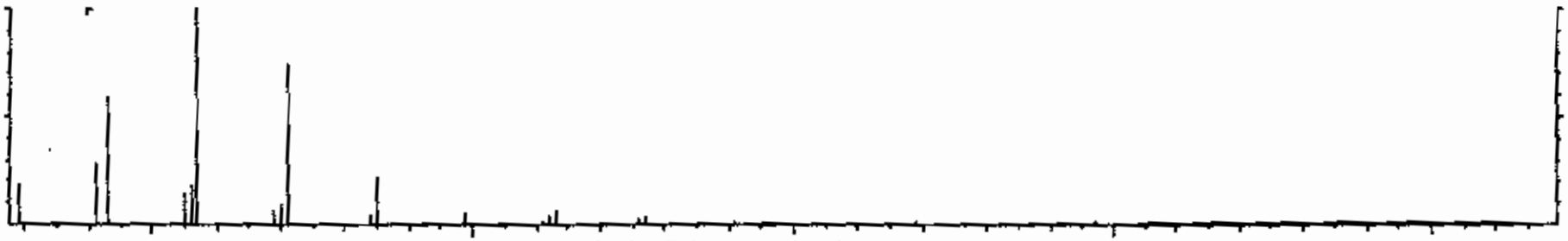
BASE M/Z: 57
RIC: 164095.

1141
SAMPLE



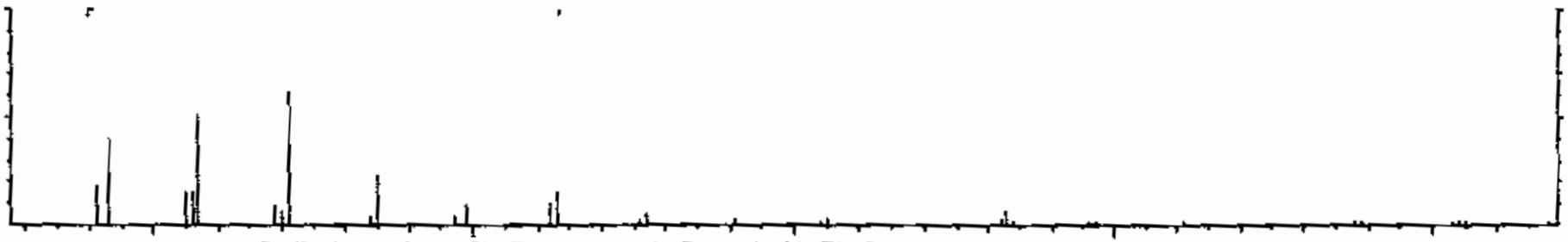
C15.H32 DODECANE, 2,7,10-TRIMETHYL- CAS# 74645-98-0

1141
M WT 212
B PK 57
RANK 1
17263
PUR 844



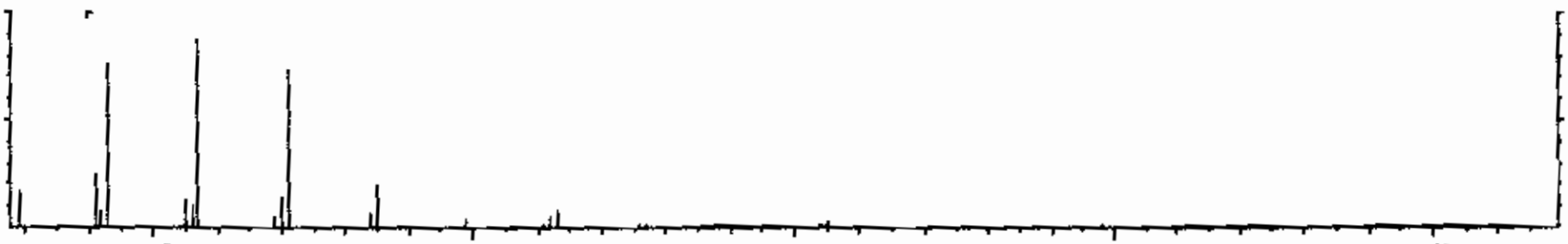
C19.H40 PENTADECANE, 2,6,10,14-TETRAMETHYL- CAS# 1921-70-6

1141
M WT 268
B PK 71
RANK 2
23930
PUR 838



C14.H30 DODECANE, 4,6-DIMETHYL- CAS# 61141-72-8

1141
M WT 198
B PK 57
RANK 3
15196
PUR 828



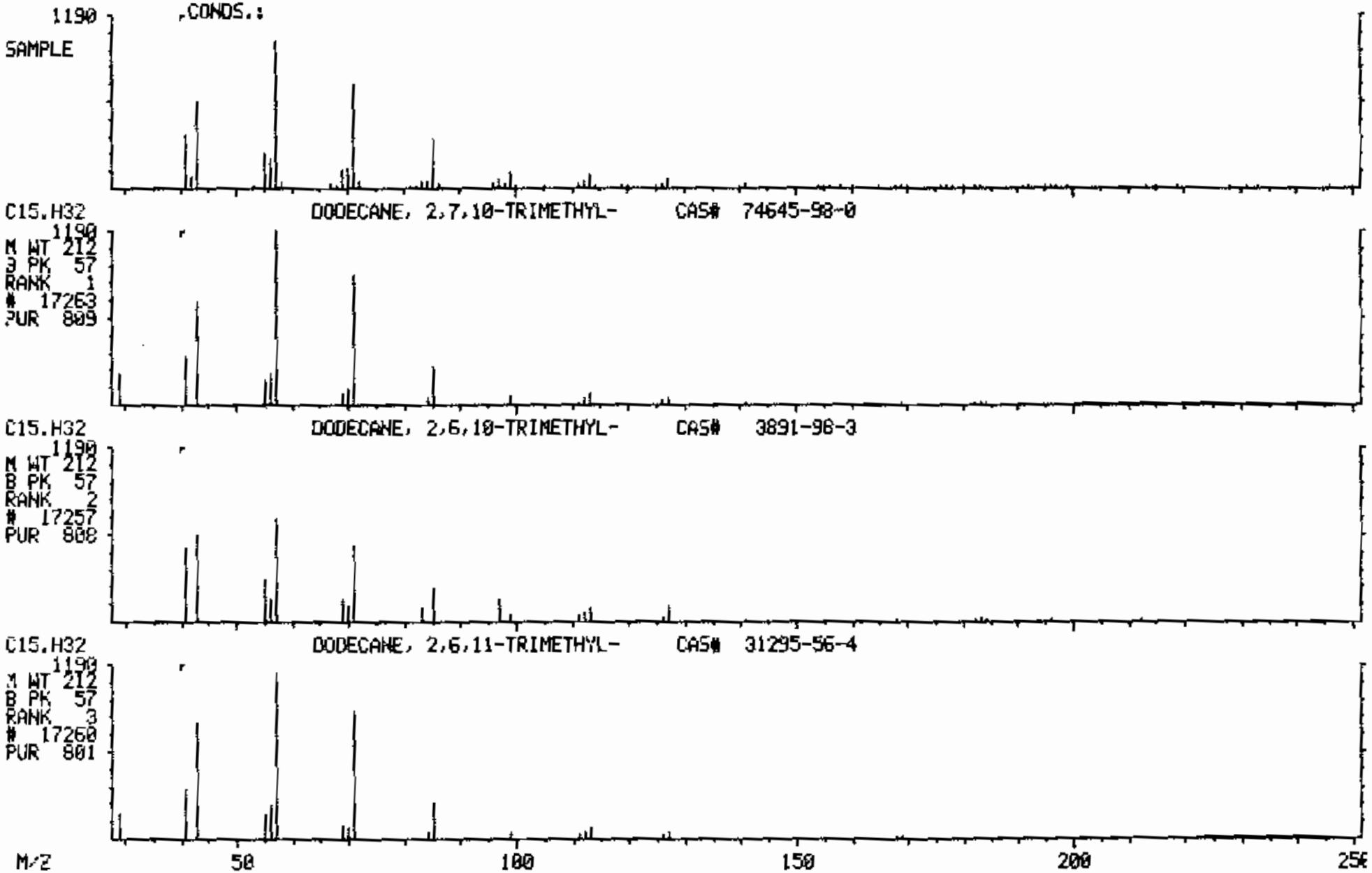
M/Z 50 100 150 200 250

COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 13:46
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A15 # 914
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 259583.

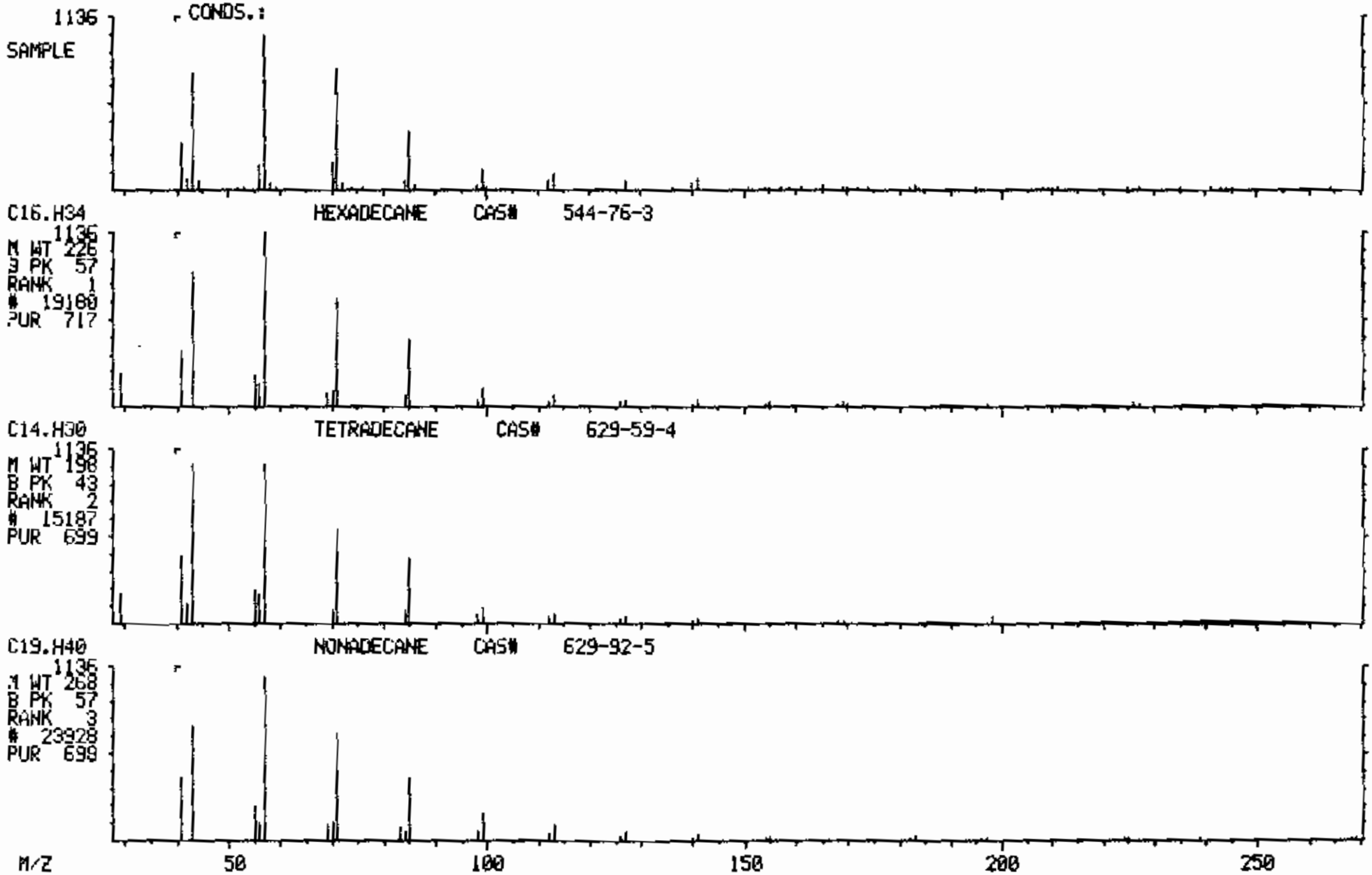


COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 14:19
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A15 # 949
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 65791.

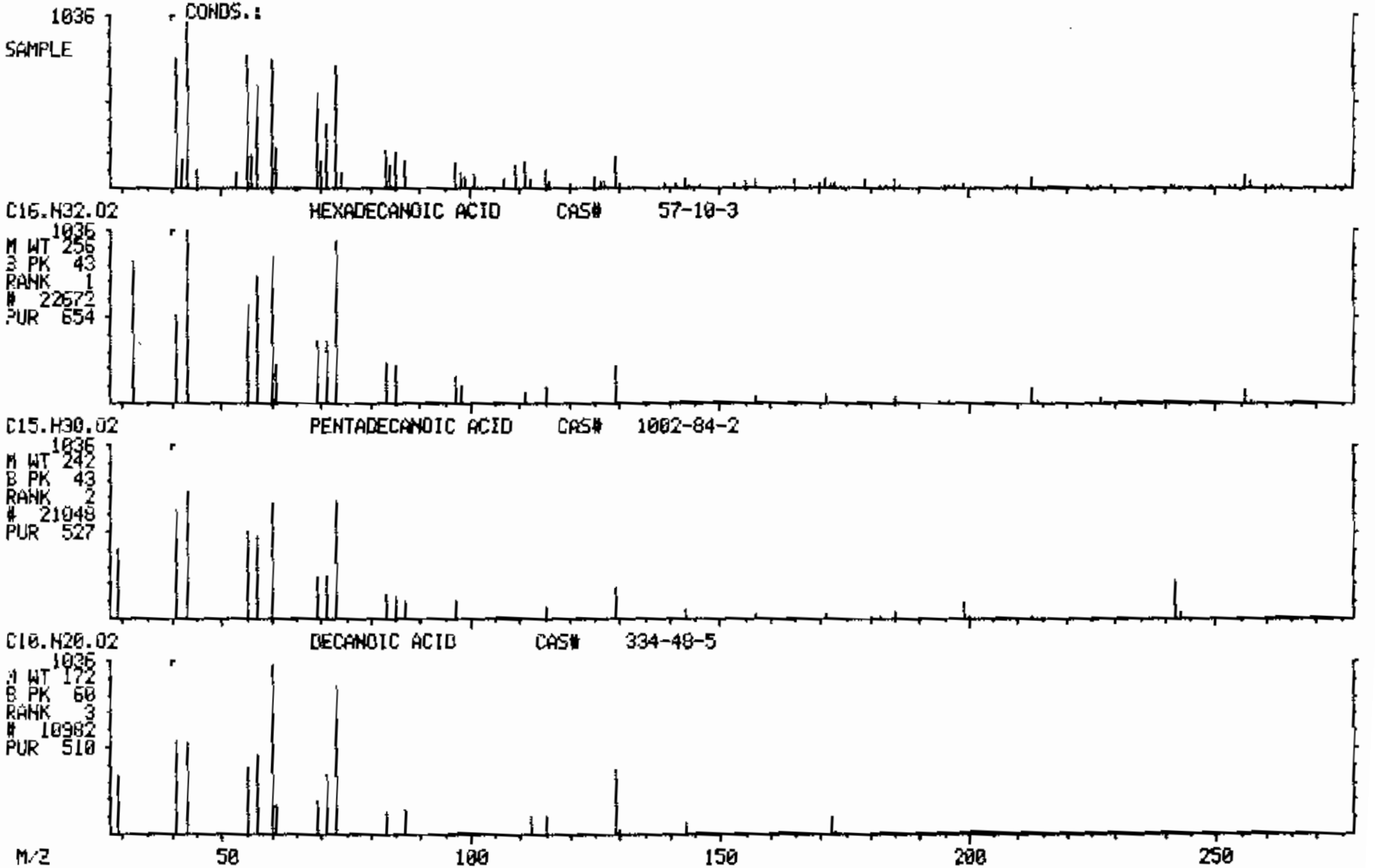


COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 14:40
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A15 # 974
ENHANCED (10B 2N 0T)

BASE M/Z: 43
RIC: 87551.

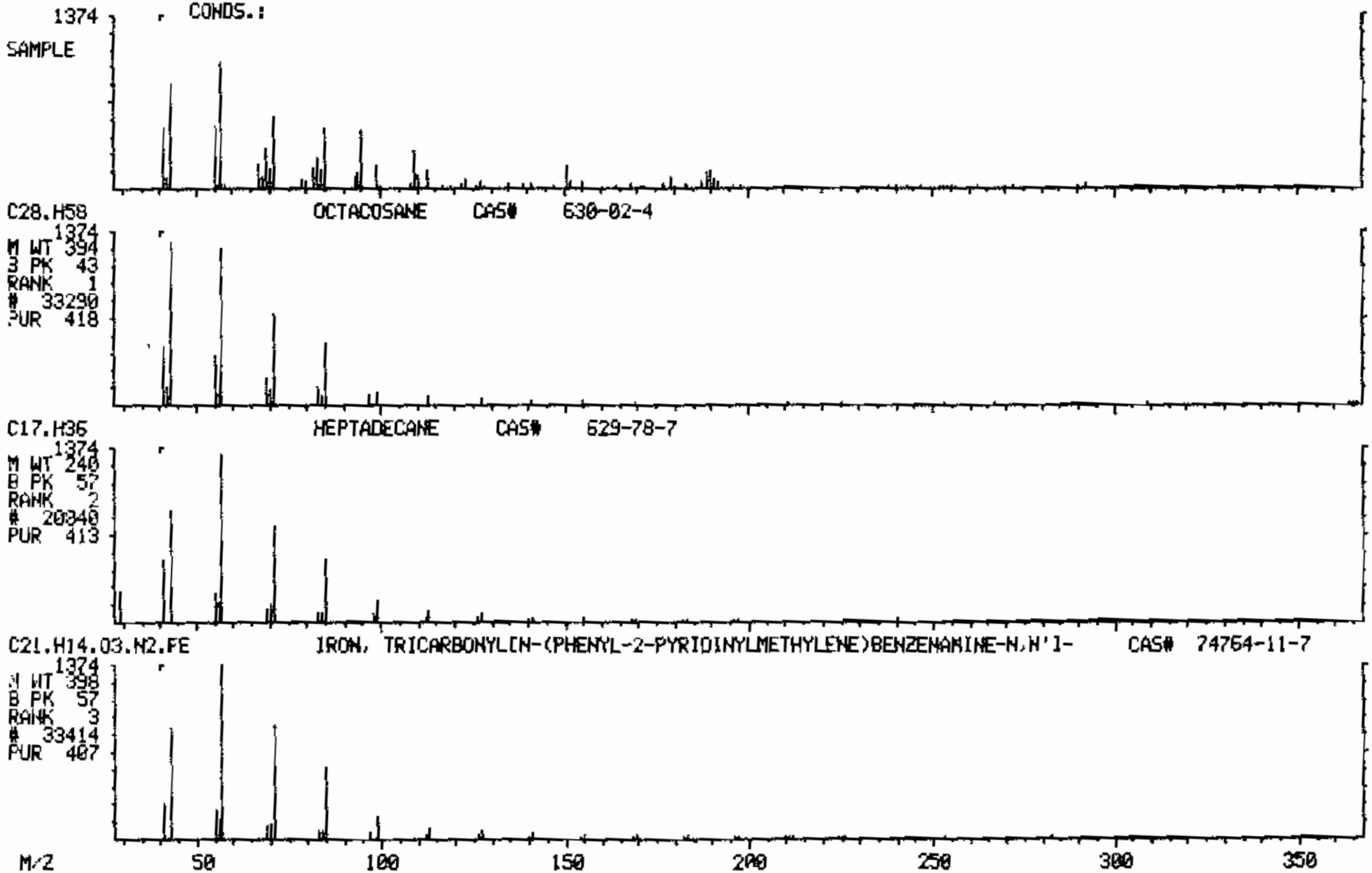


COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 14:50
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A1S # 985
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 68863.

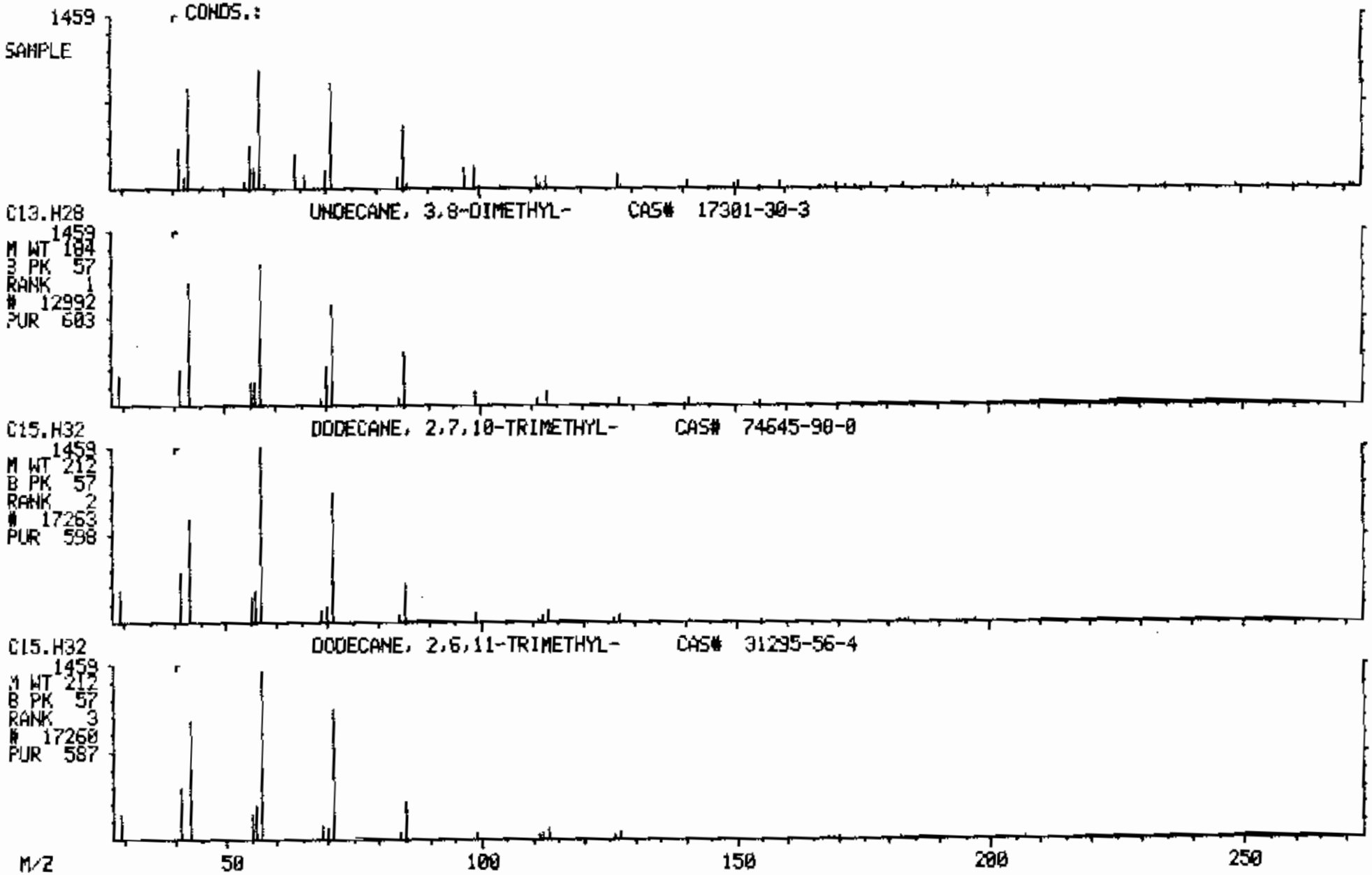


COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 14:55
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A15 # 991
ENHANCED (10B 2H 0T)

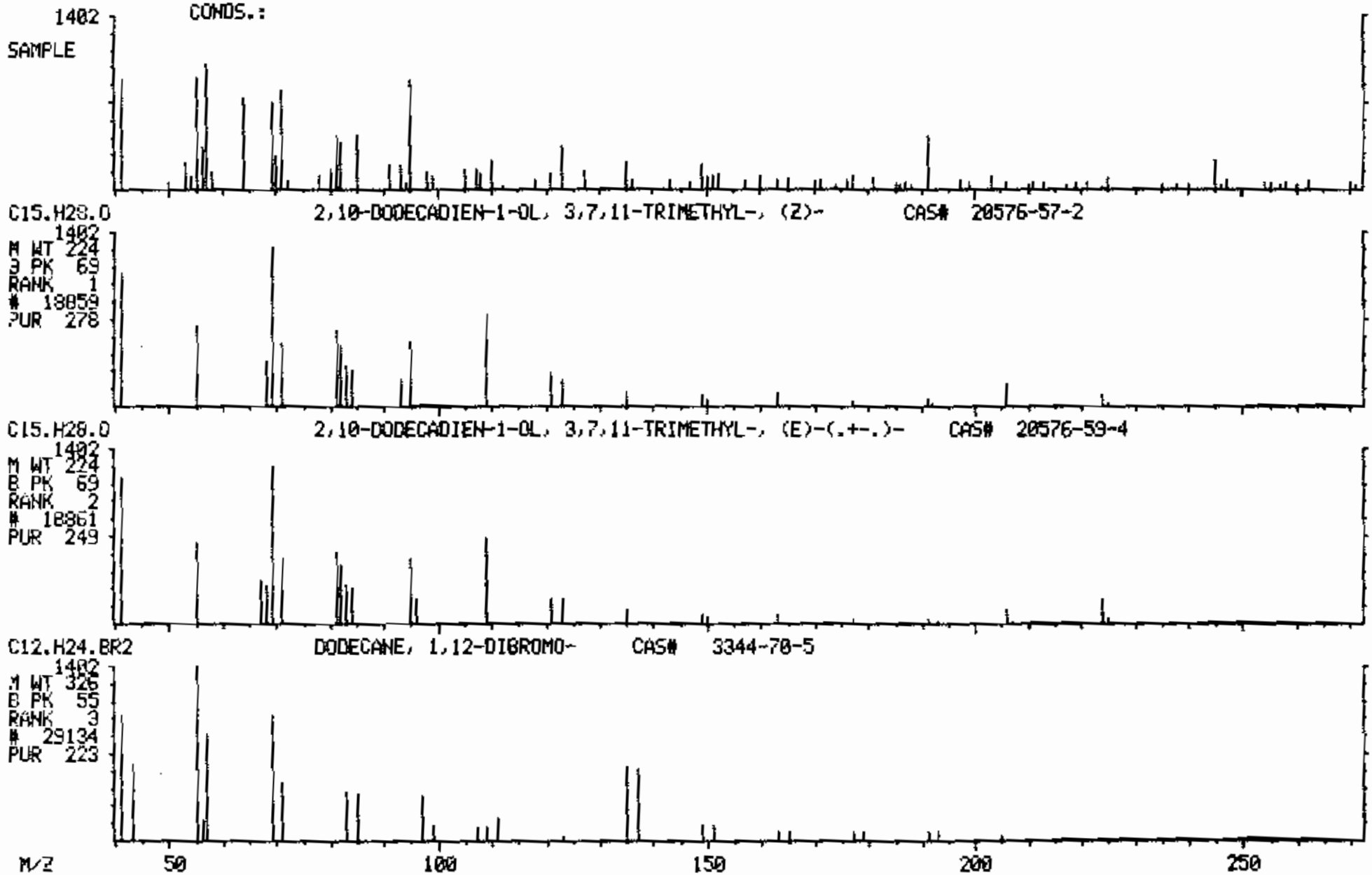
BASE M/Z: 57
RIC: 39935.



COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 15:02
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ005005A15 # 998 BASE M/Z: 57
ENHANCED (10B 2N 0T) RIC: 38463.



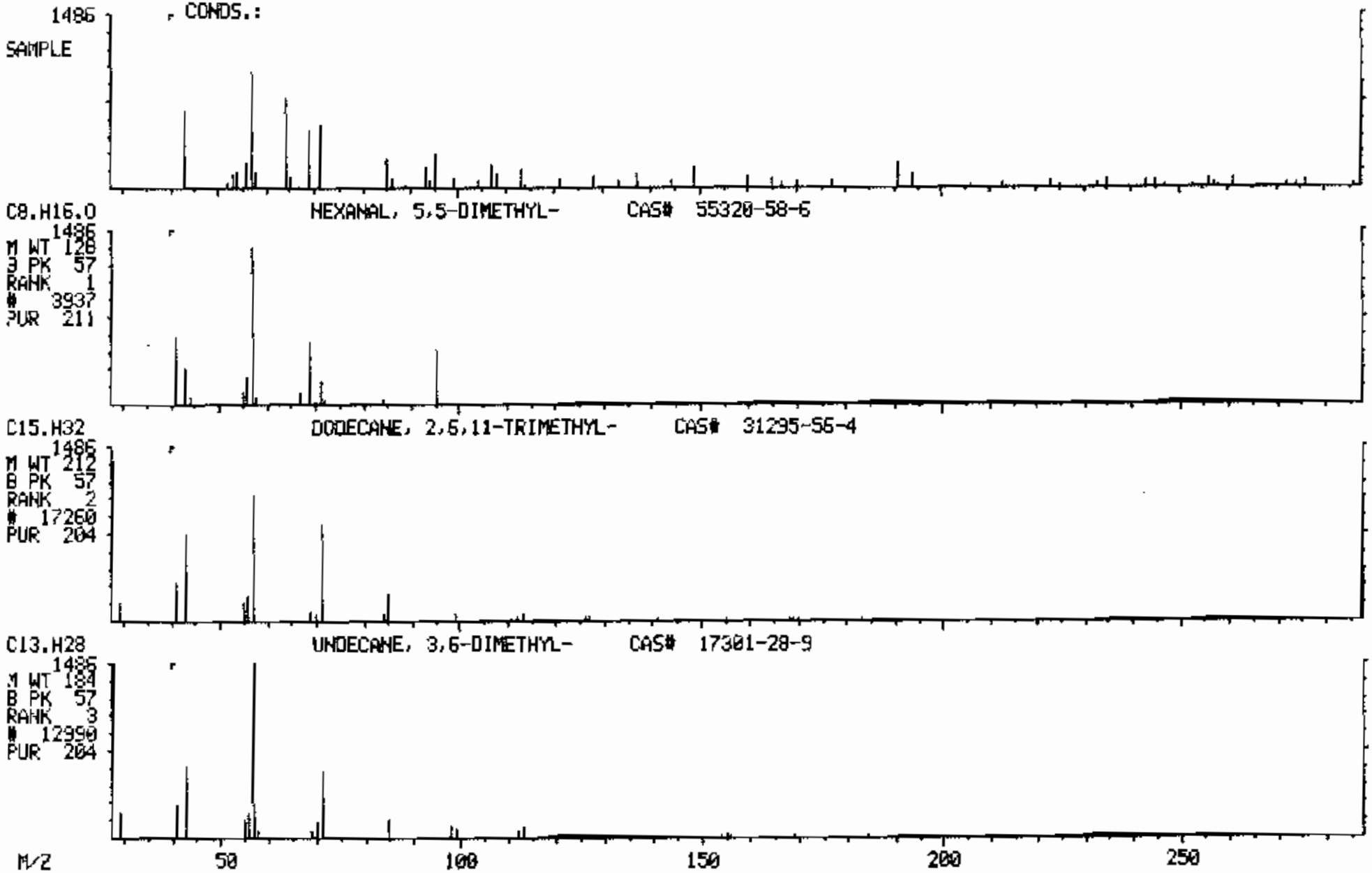
BNA9

COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 15:09
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A15 #1006
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 23967.



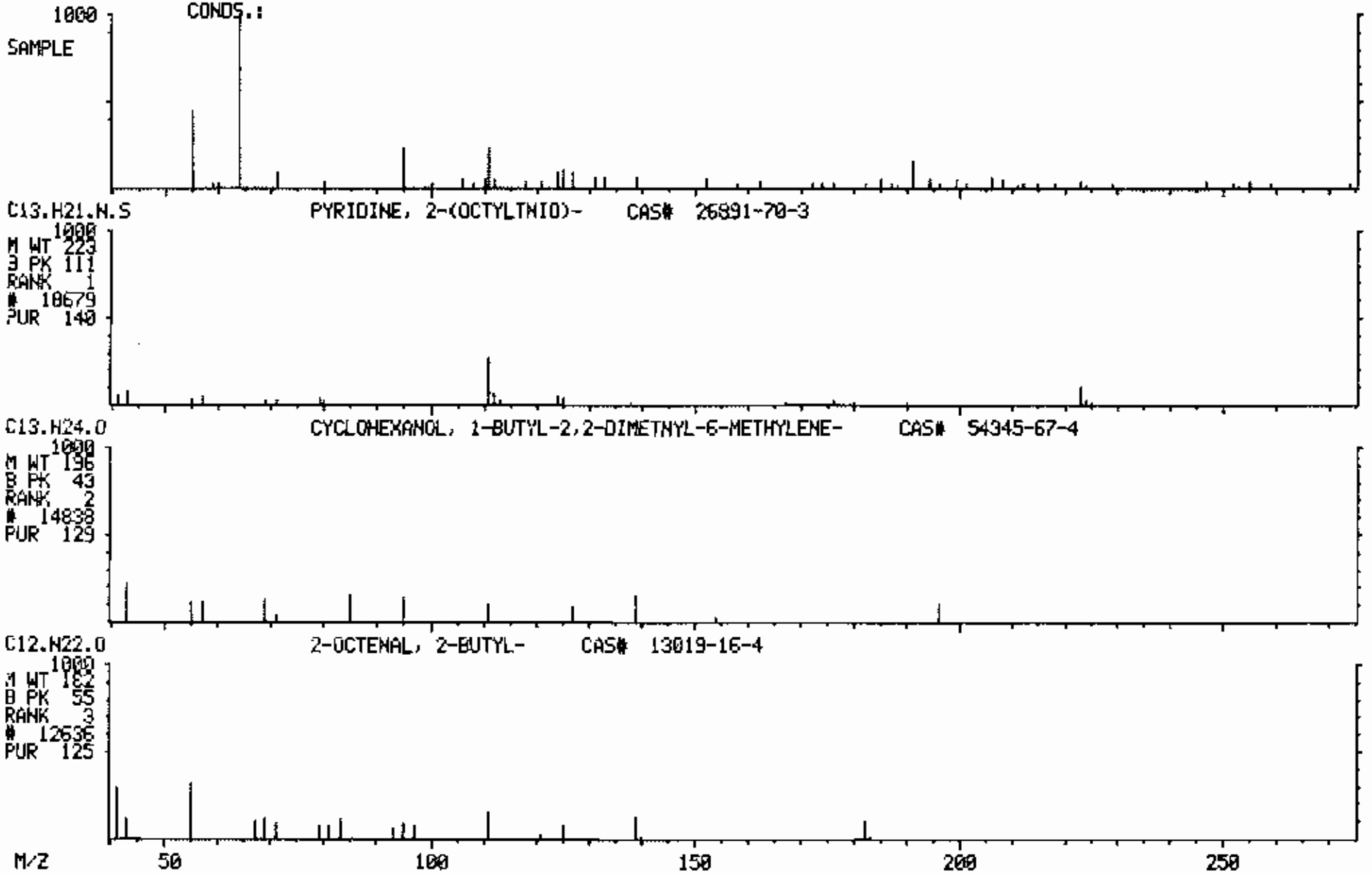
BA0A10

COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/06 12:23:00 + 15:19
SAMPLE: 1 UL # 05005 CASE URS EPA C SED
CONDS.:

DATA: GJ05005A15 #1017
ENHANCED (10B 2N 0T)

BASE M/Z: 64
RIC: 16767.

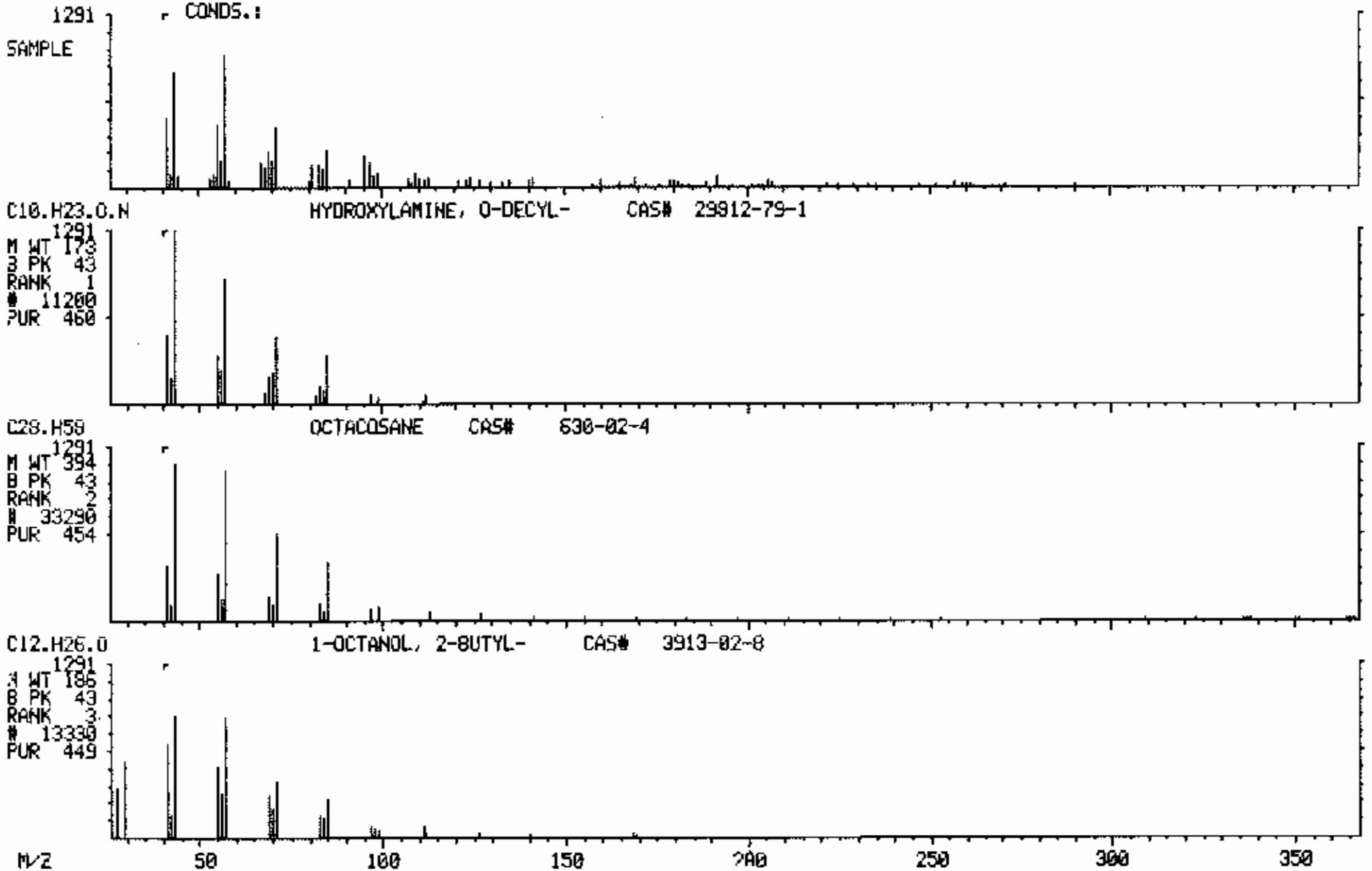


BNAH

COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 15:23
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A15 #1022 BASE M/Z: 57
ENHANCED (10B 2N 0T) RIC: 52607.



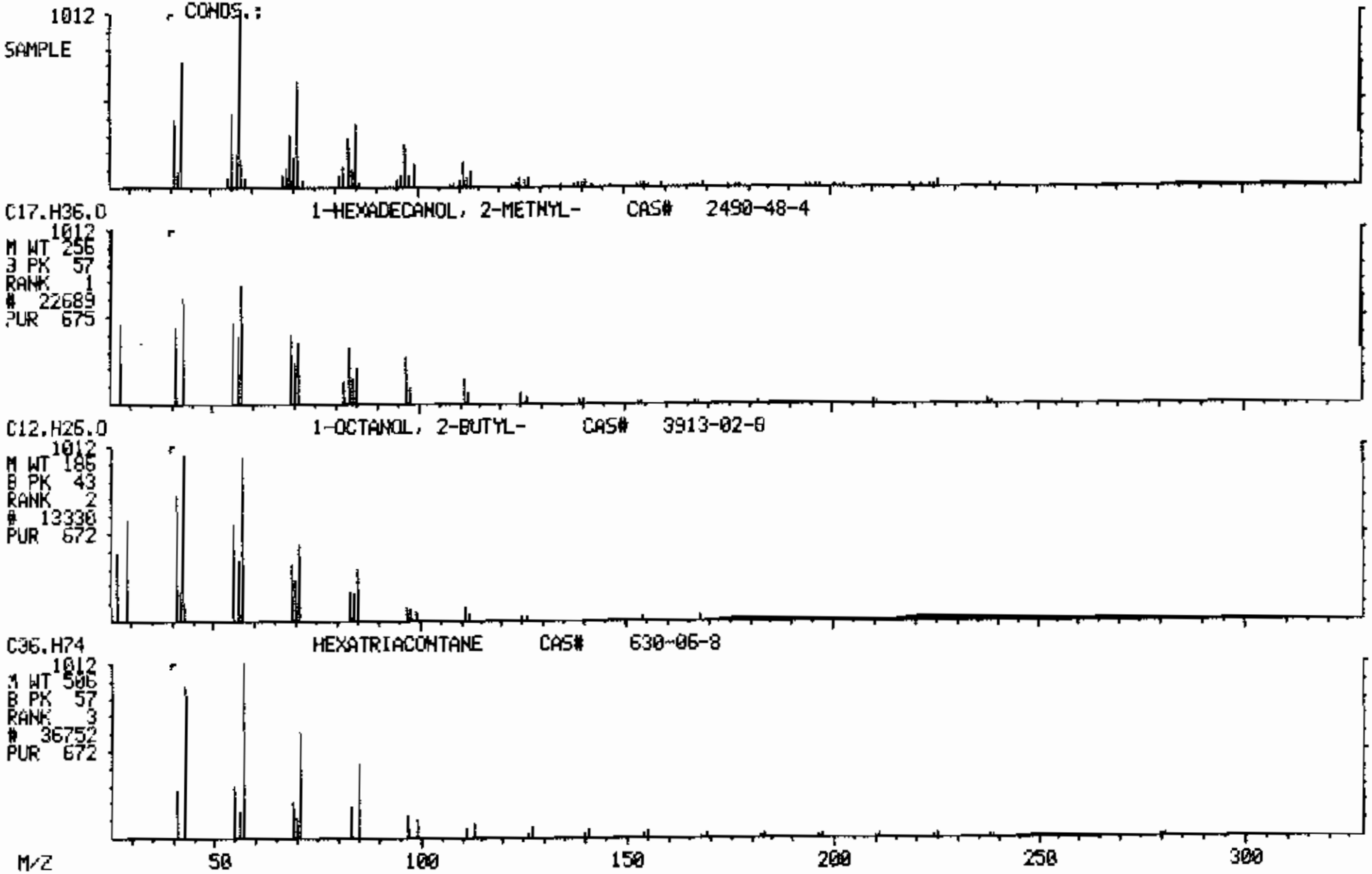
BNA17

COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 17:34
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A15 #1167
EHHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 172031.



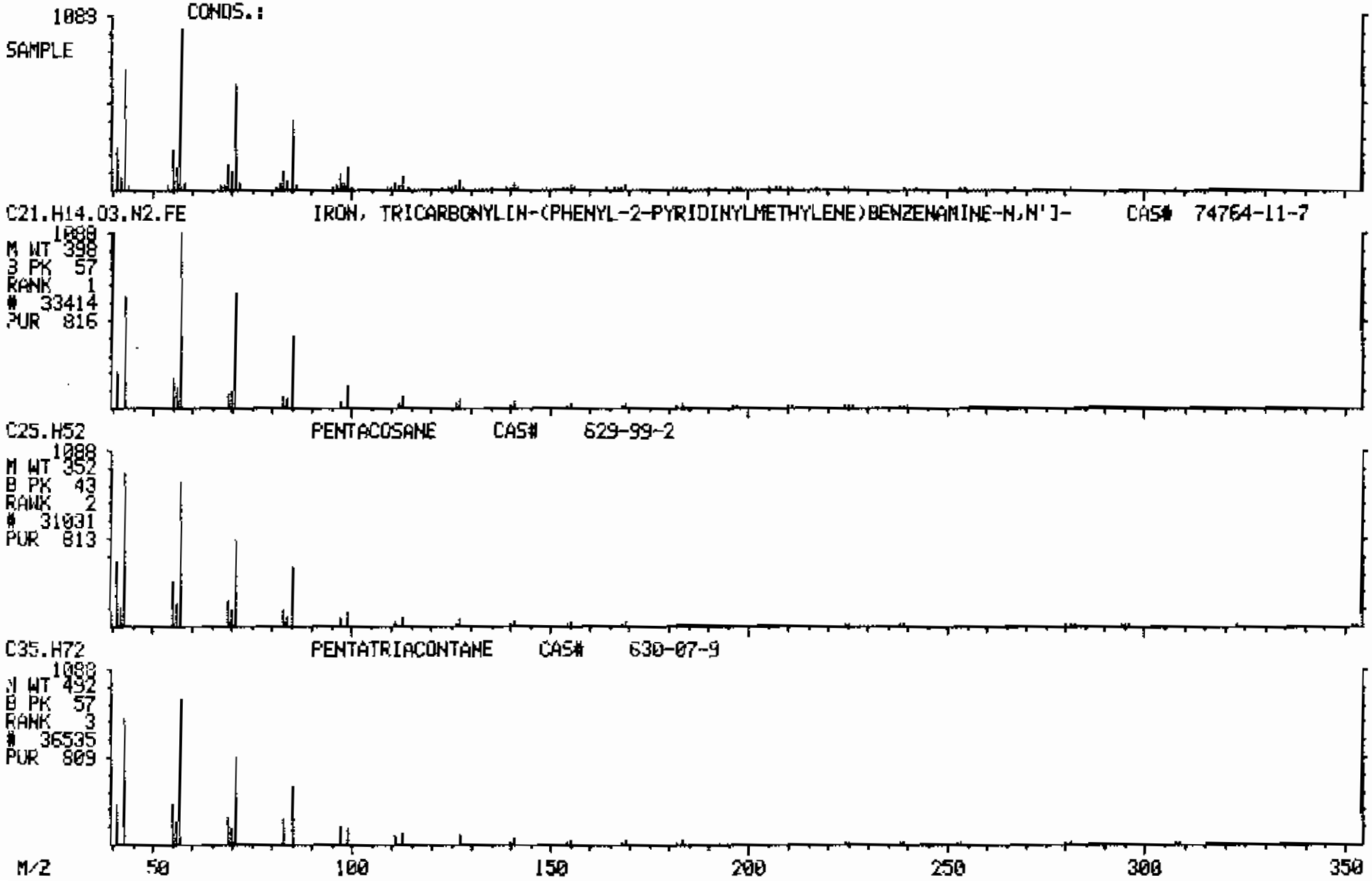
BNA13

COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 18:42
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A15 #1242
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 361471.

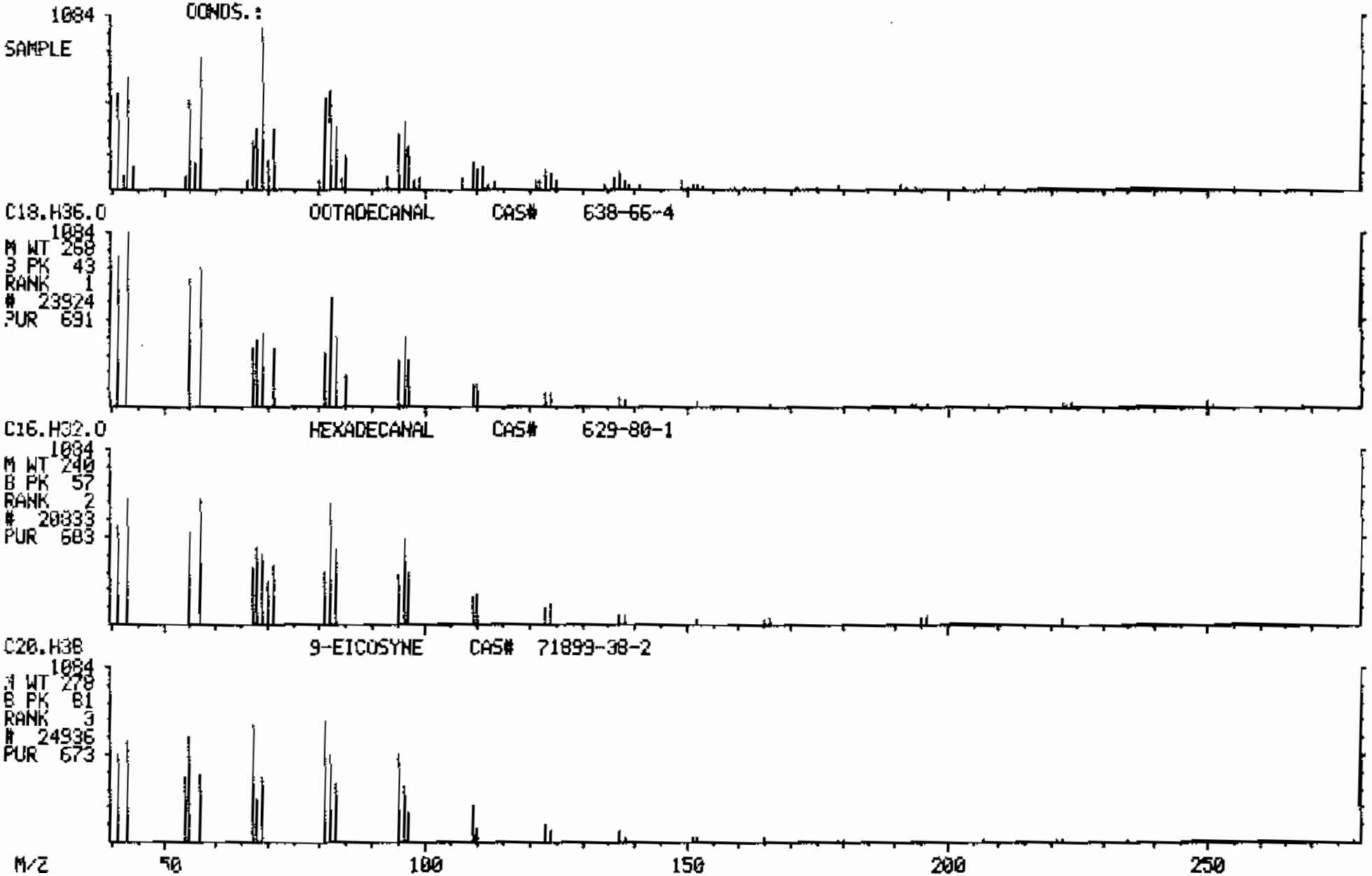


BNA14

COMPUCHEM LABS

MIO LIBRARY SEARCH
05/22/86 12:23:00 + 19:45
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A15 #1311 BASE M/Z: 69
ENHANCED (100 2H 0T) RIC: 75135.



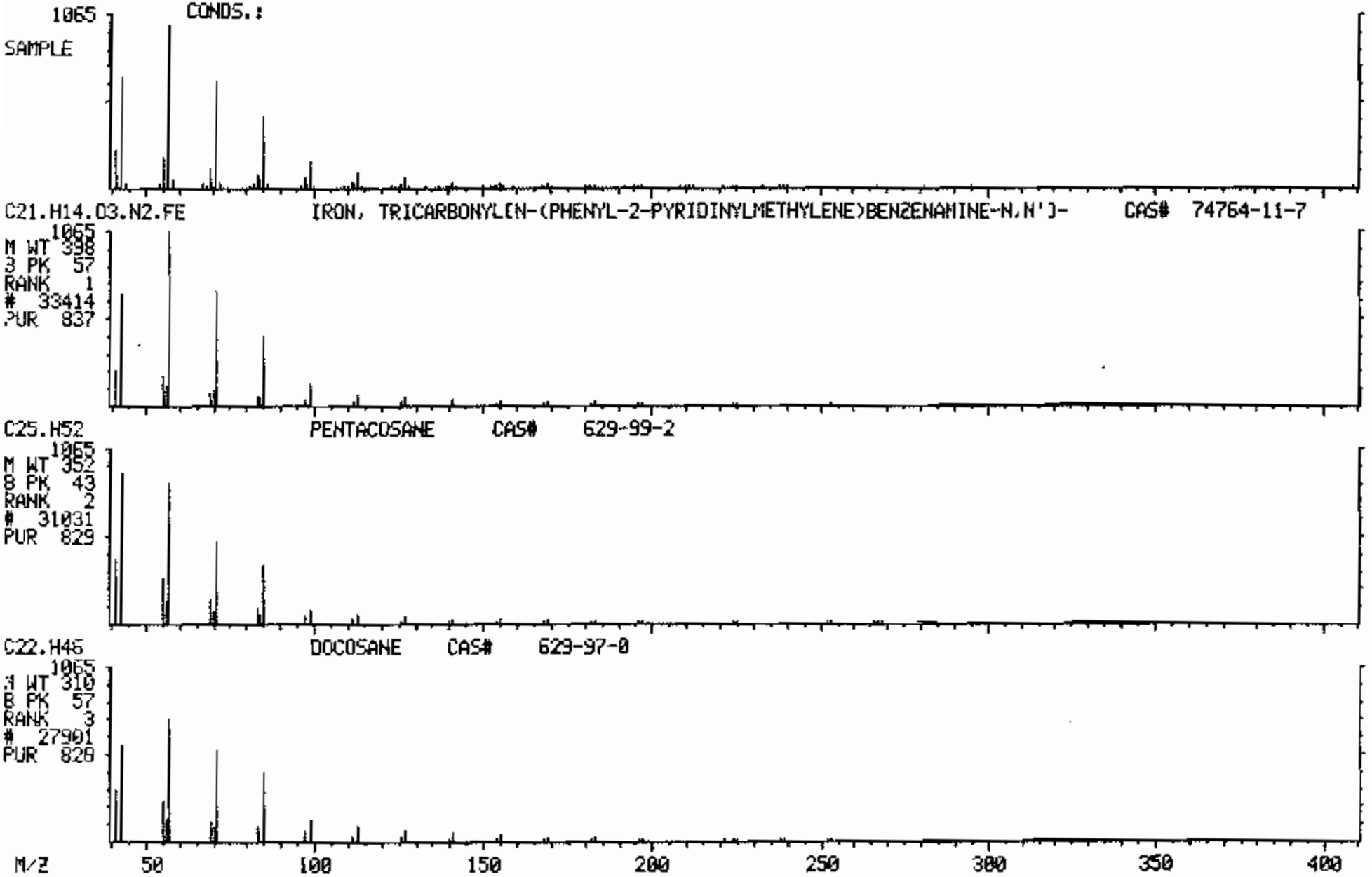
BNA 15

COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 20:14
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A15 #1343
ENHANCED (100 2N 0T)

BASE M/Z: 57
RIC: 287743.

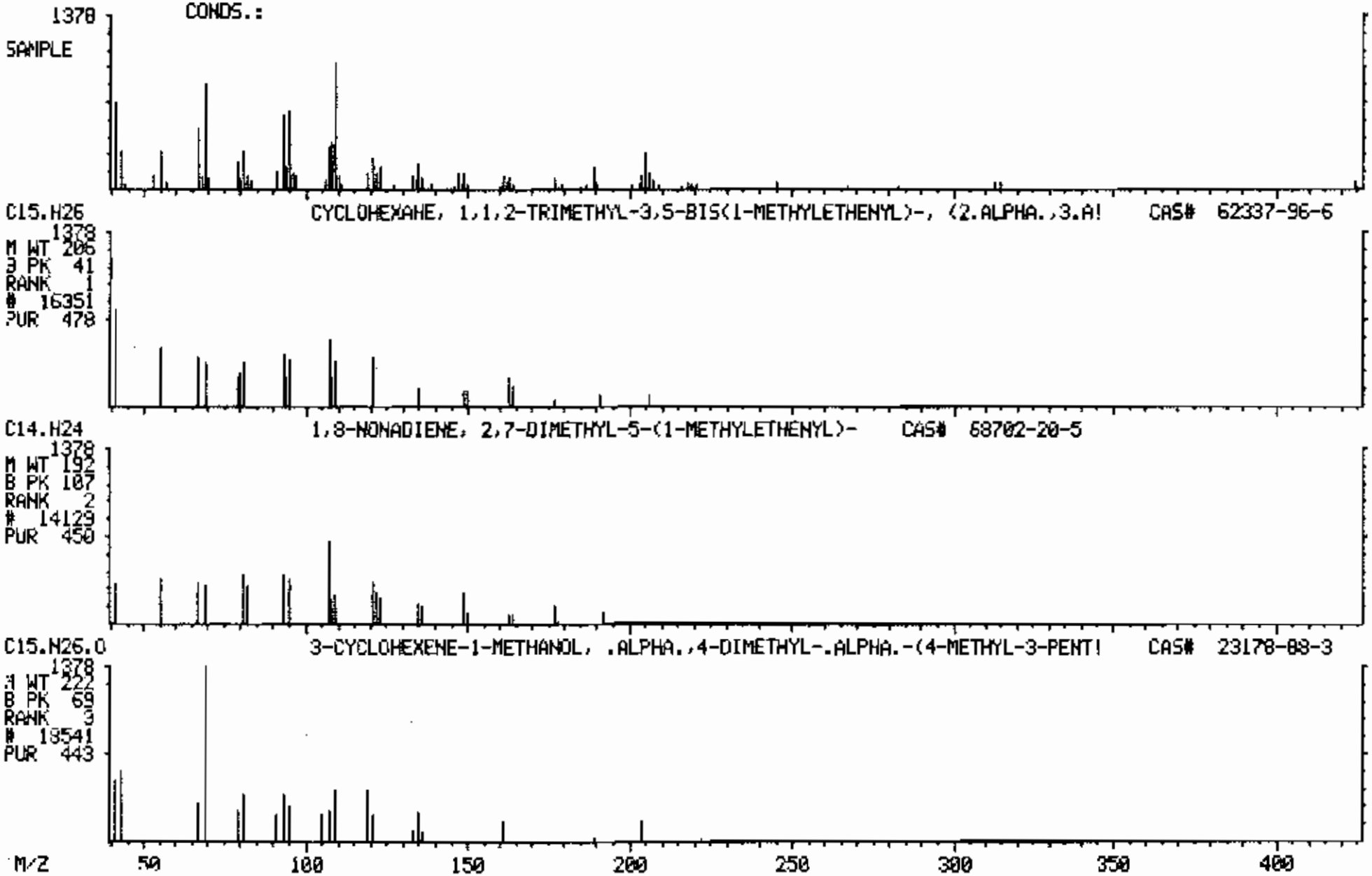


BNA16

COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 27:04
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: CJ085005A15 #1797 BASE M/Z: 109
ENHANCED (10B 2N 0T) RIC: 59263.

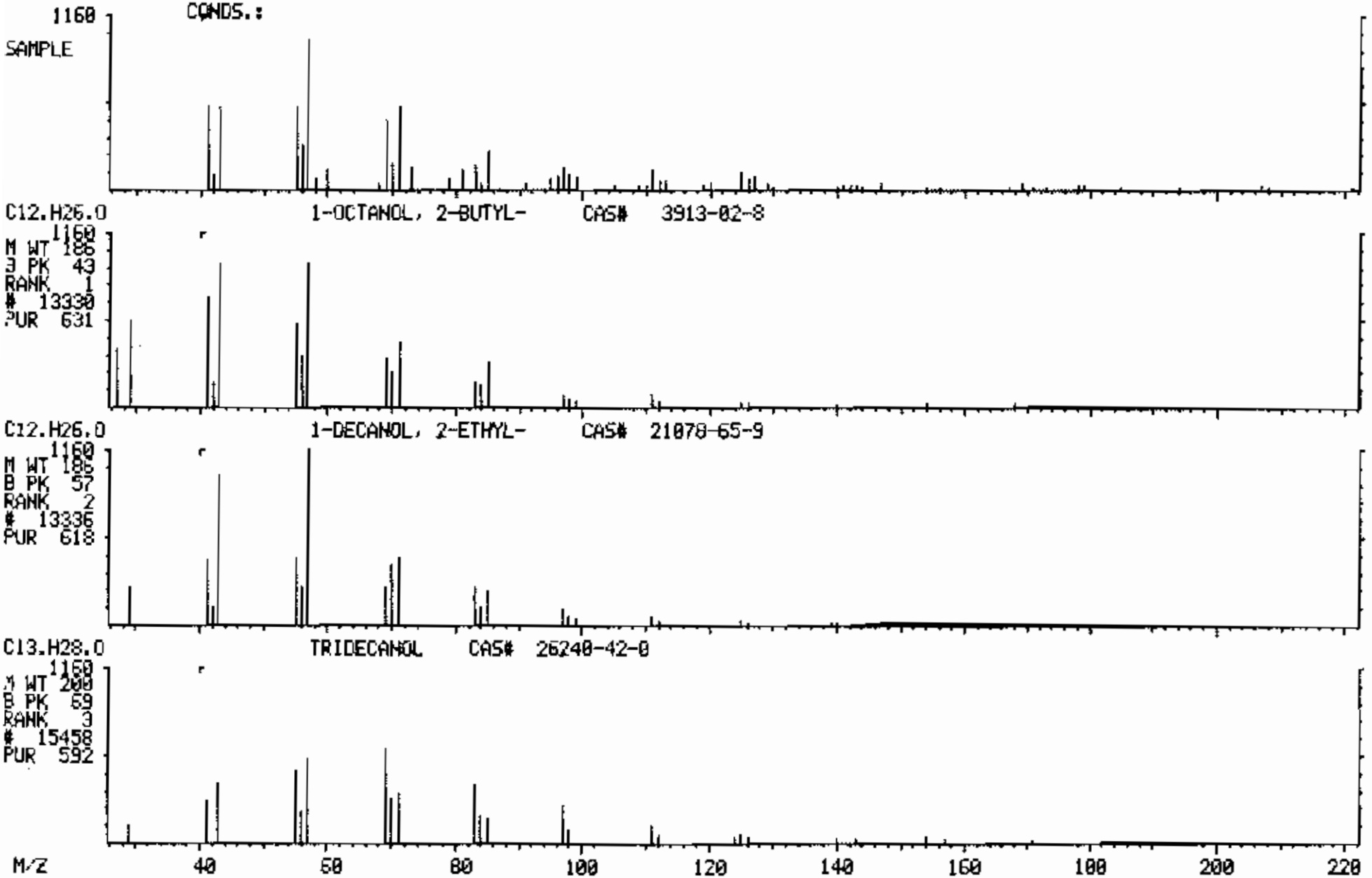


(17) BNA

COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 13:23
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A15 # 889 BASE M/Z: 57
ENHANCED (10B 2N 0T) RIC: 52287.



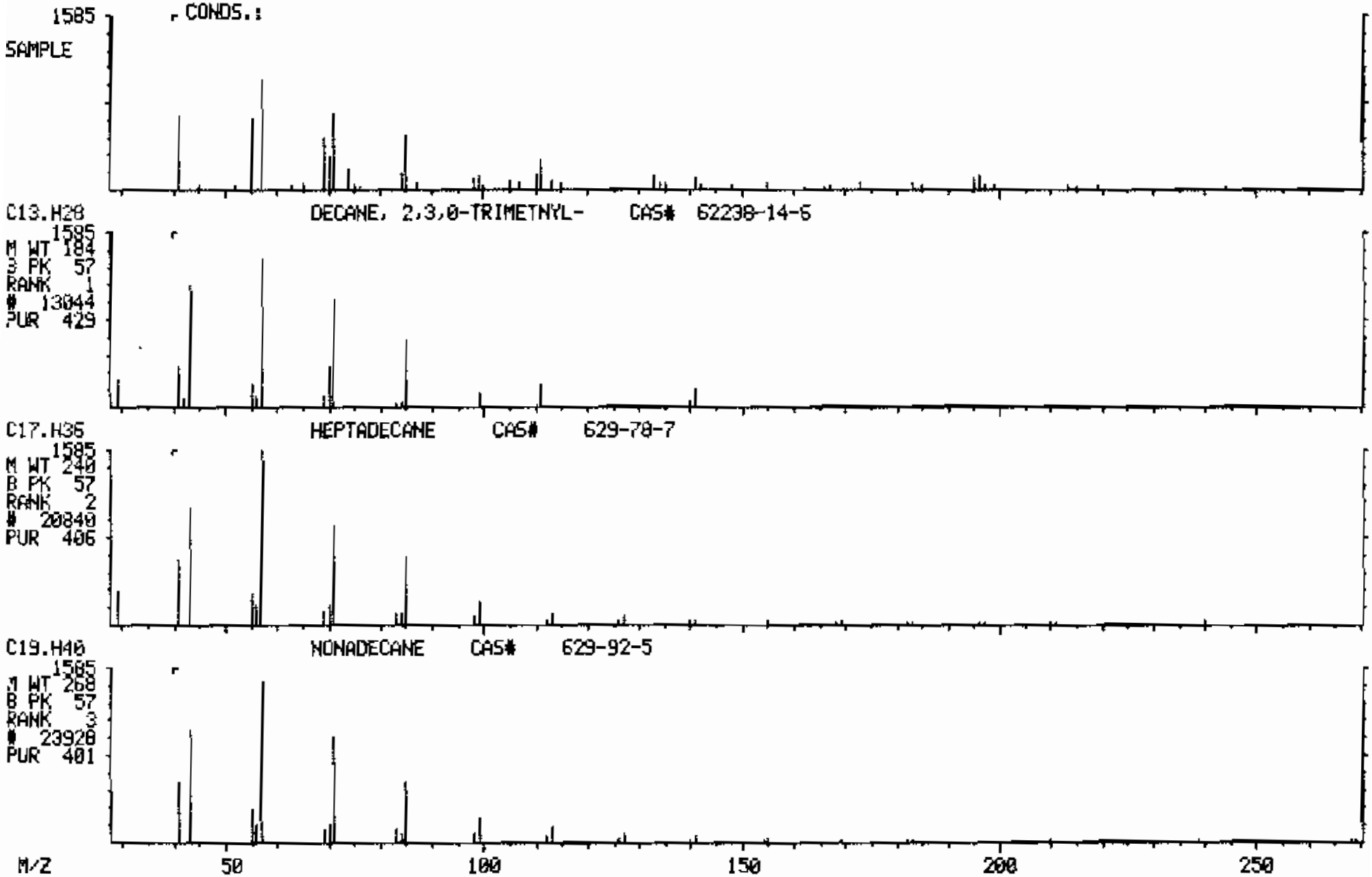
(18) B.NA

COMPUCHEM LABS

MIO LIBRARY SEARCH
05/22/86 12:23:00 + 13:40
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A15 # 907
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 21055.

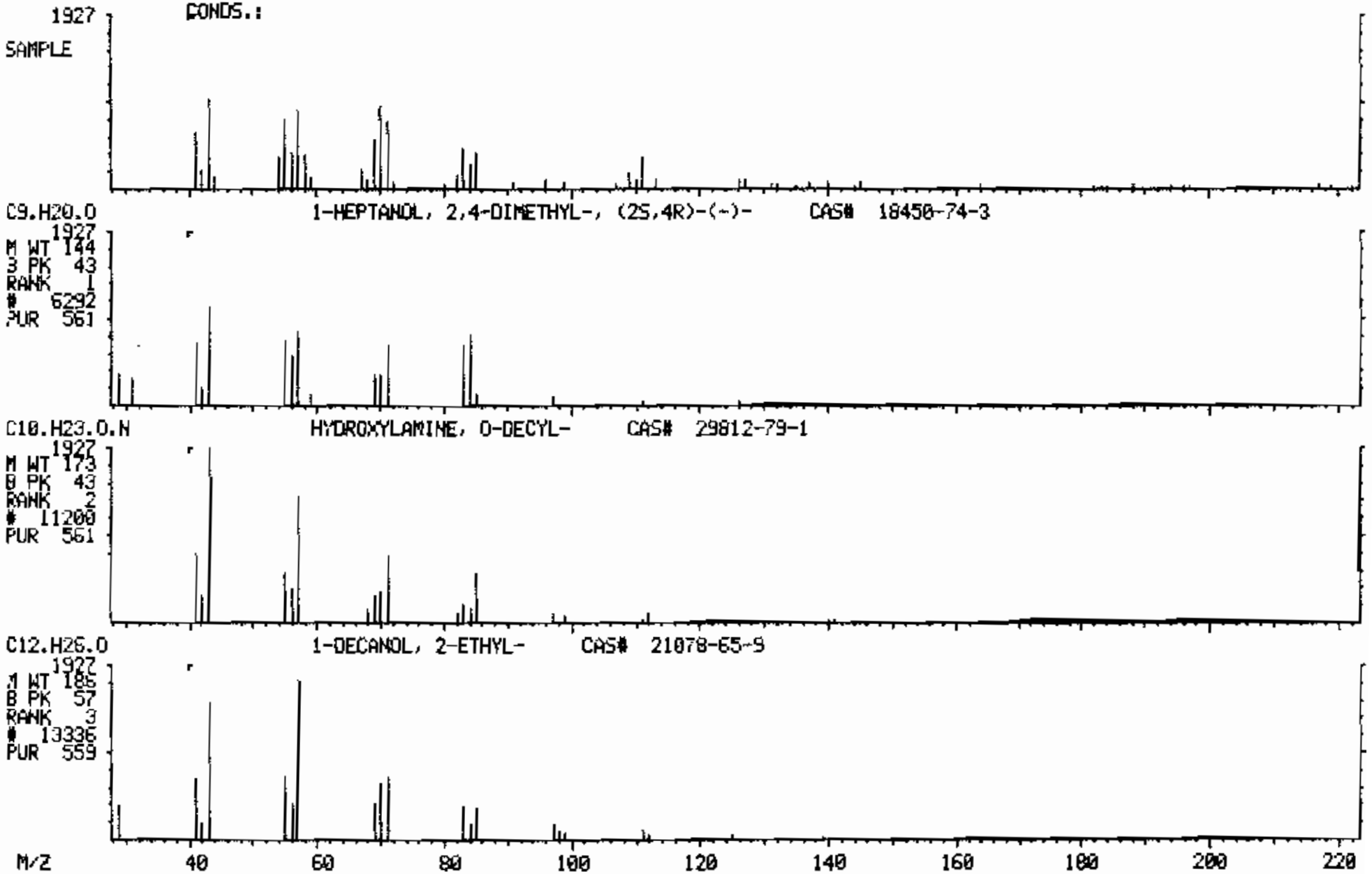


(19) BNA

COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 14:00
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ035005A15 # 930 BASE M/Z: 43
ENHANCED (10B 2H 0T) RIC: 40303.



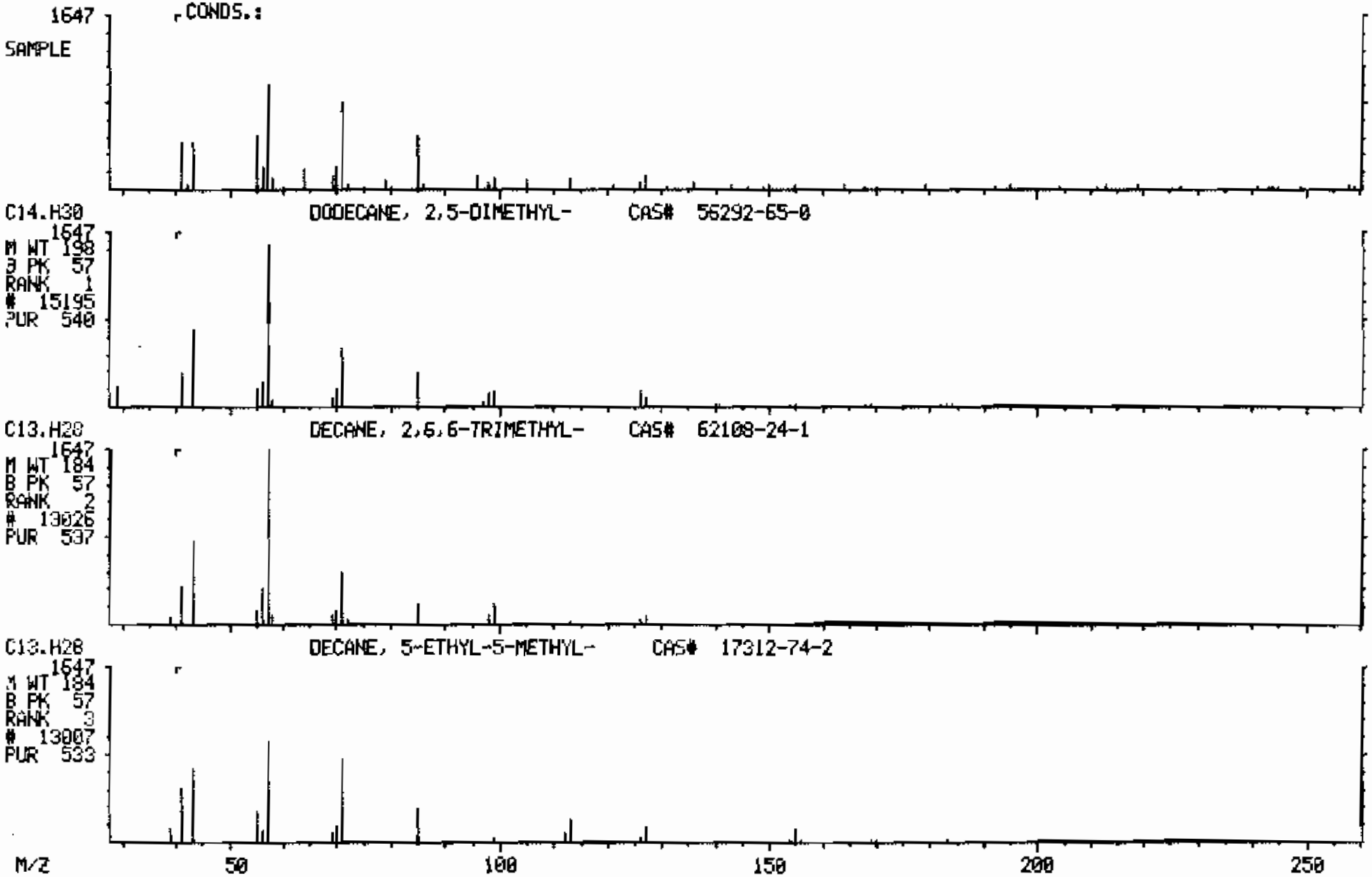
(20) BNA

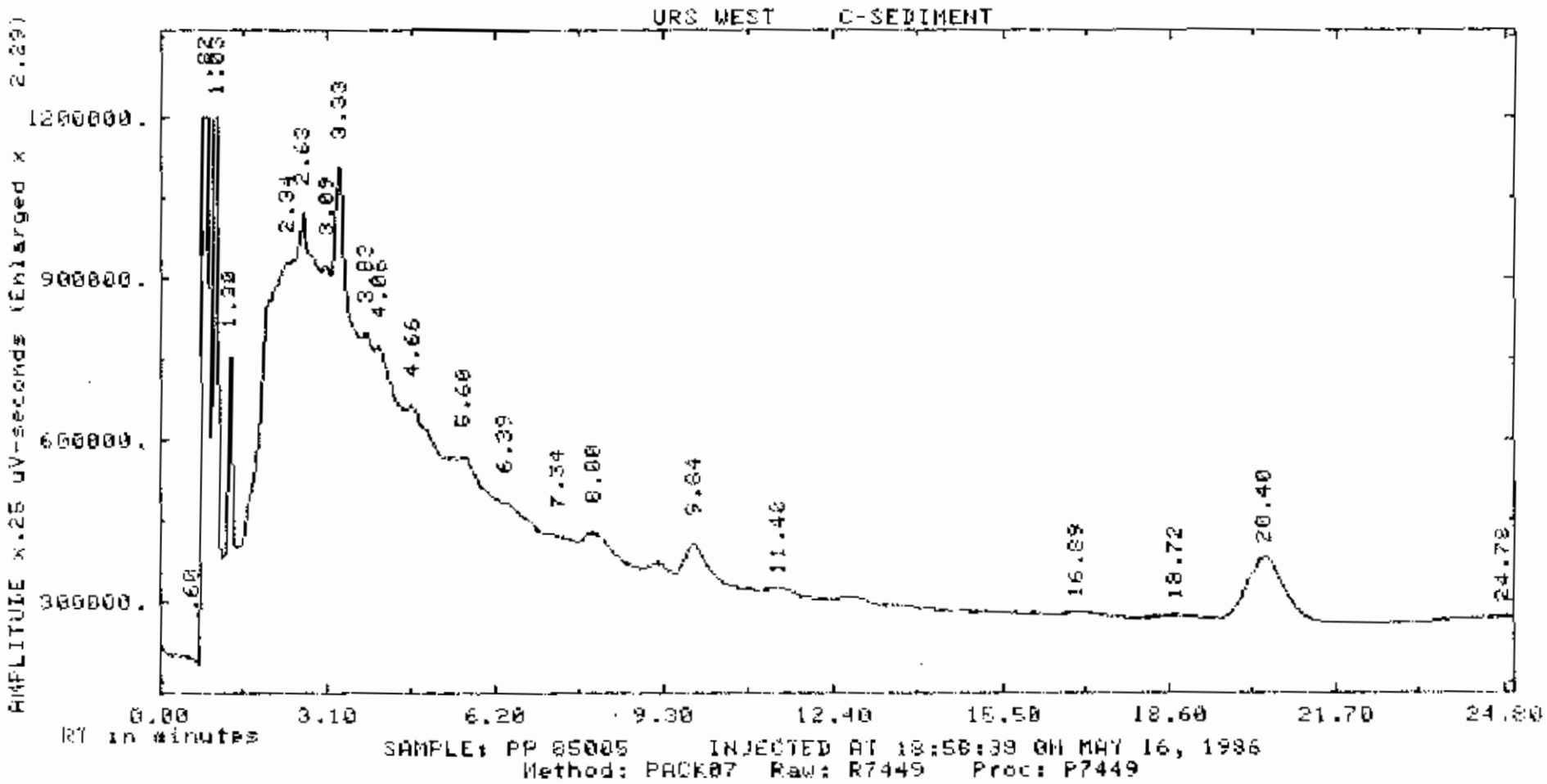
COMPUCHEM LABS

MID LIBRARY SEARCH
05/22/86 12:23:00 + 14:26
SAMPLE: 1 UL # 85005 CASE URS EPA C SED
CONDS.:

DATA: GJ085005A15 # 958
ENHANCED (10B 2H 0T)

BASE M/Z: 57
RIC: 33407.




URS WEST C-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 2.29)
1200000.
900000.
600000.
300000.
0.00
3.10
6.20
9.30
12.40
15.50
18.60
21.70
24.80
RT in minutes
.68
1.02
1.38
2.34
2.63
3.09
3.33
3.82
4.06
4.66
5.60
6.39
7.34
8.00
9.64
11.46
16.89
18.72
20.40
24.78
SAMPLE: PP 05005 INJECTED AT 18:56:39 ON MAY 16, 1986
Method: PACK07 Raw: R7449 Proc: P7449

Report: 222.00 Channel: 7 URS WEST C-SEDIMENT

Sample: PP BS005 Injected at 18:50:38 ON MAY 16, 1986

APCT Method: PACK07 Seq: SEQ74 Subsq/Samp: 1/49 Btl: 49

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	10000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTw	%RTw	%Dil-f	Iso
NO	0.06	0	.30	5.0	500.00	NO

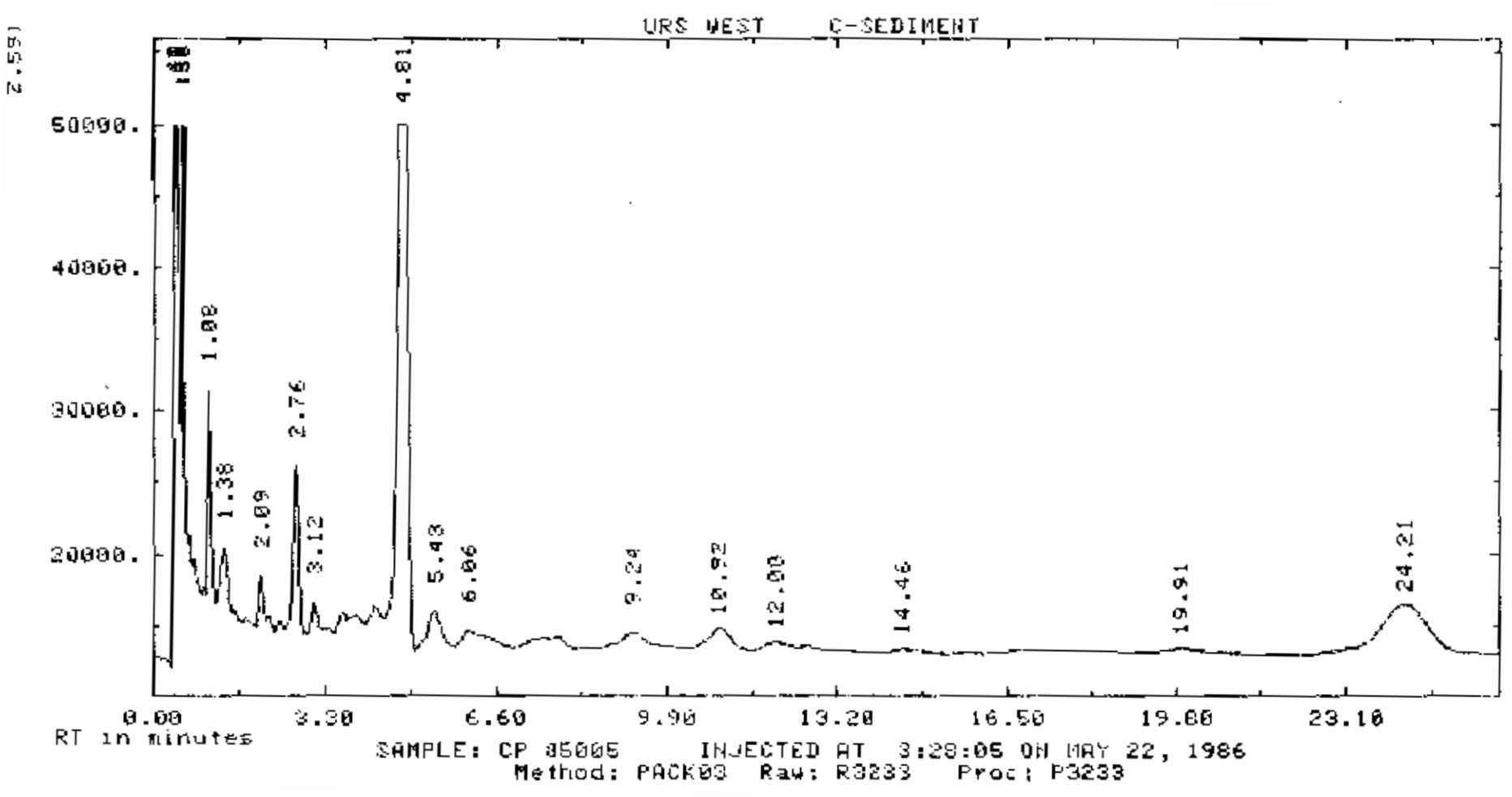
Actual run time: 25.008 minutes

Ended not on baseline
No reference peak found

RT	ITM	Factor	Area		AREA %	Name
.60	0.00	.10000E+01	11460.	BB	.266	
.82	0.00	.10000E+01	9556496.	BB	221.707	
1.03	0.00	.10000E+01	3661895.	BB	84.954	
1.30	0.00	.10000E+01	868118.	BB	20.140	
2.34	0.00	.10000E+01	1155044.	BB	26.797	
2.63	0.00	.10000E+01	459612.	BB	10.663	
3.09	0.00	.10000E+01	50158.	BB	1.164	
3.33	0.00	.10000E+01	1022334.	BB	23.718	
3.85	0.00	.10000E+01	78308.	BB	1.817	
4.06	0.00	.10000E+01	40798.	BB	.946	
4.66	0.00	.10000E+01	205610.	BB	4.770	
5.60	0.00	.10000E+01	60106.	BB	1.394	
6.39	0.00	.10000E+01	47490.	BB	1.102	
7.34	0.00	.10000E+01	11216.	BB	.260	
8.00	0.00	.10000E+01	325764.	BB	7.558	
9.84	0.00	.10000E+01	793110.	BB	18.400	
11.40	0.00	.10000E+01	25697.	BB	.596	
16.89	0.00	.10000E+01	121616.	BB	2.821	
18.72	0.00	.10000E+01	123984.	BB	2.876	
20.40	0.00	.10000E+01	2868620.	BB	66.551	
24.78	0.00	.10000E+01	64674.	BF	1.500	

Total Area = 21552124. Total AREA % = 64674.000

Processed data file: P7449 Raw data file: R7449


URS WEST C-SEDIMENT
50000.
40000.
30000.
20000.
1.08
1.38
2.09
2.76
3.12
4.81
5.43
6.06
9.24
10.92
12.00
14.46
19.91
24.21
0.00
3.30
6.60
9.90
13.20
16.50
19.80
23.10
RT in minutes
SAMPLE: CP 85005 INJECTED AT 3:28:05 ON MAY 22, 1986
Method: PACK03 Raw: R3233 Proc: P3233

Report: 389.00 Channel: 3 UKS WEST C-SEDIMENT

Sample: CP 85005 Injected at 3:20:05 ON MAY 22, 1986

ZERO Method: PACK03 Seq. SEQ32 Subsq/Samp: 1/33 Rtl: 33

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	.300	0.00	5000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	500.00	NO

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITM	Factor	Area		AREA %	Name
.40	0.00	.10000E+01	88168.	BS	51.230	
.48	0.00	.10000E+01	10605.	BB	6.208	
.58	0.00	.10000E+01	48521.	BB	28.193	
1.08	0.00	.10000E+01	28908.	BB	16.797	
1.38	0.00	.10000E+01	18022.	BB	10.472	
2.09	0.00	.10000E+01	7648.	BB	4.444	
2.76	0.00	.10000E+01	42366.	BB	24.617	
3.12	0.00	.10000E+01	7080.	BB	4.114	
4.81	0.00	.10000E+01	390420.	BB	226.853	
5.43	0.00	.10000E+01	22711.	BB	13.196	
6.06	0.00	.10000E+01	19299.	BB	11.214	
9.24	0.00	.10000E+01	20230.	BB	11.754	
10.92	0.00	.10000E+01	21511.	BB	12.499	
12.00	0.00	.10000E+01	5788.	BB	3.363	
14.46	0.00	.10000E+01	5398.	BB	3.136	
19.91	0.00	.10000E+01	7996.	BB	4.646	
24.21	0.00	.10000E+01	115764.	BF	67.264	

Total Area = 860513. Total AREA % = 115763.750

Processed data file: P3233 Raw data file: R3233

III. SAMPLE DATA PACKAGE

(2)

CASE NO. URS WEST

SAMPLE NO. D-SEDIMENT COMPUCHEM NO. 8600 D
Site No. 2

A. Sample data in increasing SMO Number order:

1. Copy of Sample Traffic Report
2. HSL Results — Organic Analysis Data Sheet (Form I)
3. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.
4. Raw Data — in order: VOA, BNA, Pesticide

1. Copy of Sample Traffic Report

2. HSL Results — Organic Analysis Data Sheets (Form I)

Sample Number:
D-SEDIMENT

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: BH(35?)DOA18
Sample Matrix: solid
Date Release
Authorized By: ____________

Case: URS WEST
QC Report No: ____________
Contract No: PLATINUM
Date Sample
Received: 05-12-86

Volatile Compounds

Concentration: Low
Date extracted/prepared: 05-13-86
Date analyzed: 05-15-86
Conc/Dil Factor: 1.26 pH: 7.78
Percent moisture (not decanted): 21%

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	13.	U	10061-02-6	trans-1,3-Dichloropropene	6.3	U
74-83-9	Bromomethane	13.	U	79-01-6	Trichloroethene	6.3	U
75-01-4	Vinyl Chloride	13.	U	124-48-1	Dibromochloromethane	6.3	U
75-00-3	Chloroethane	13.	U	79-00-5	1,1,2-Trichloroethane	6.3	U
75-09-2	Methylene Chloride	23.	[illegible]	71-43-2	Benzene	6.3	U
67-64-1	Acetone	13.	J	10061-01-5	cis-1,3-Dichloropropene	6.3	U
75-15-0	Carbon Disulfide	6.3	U	110-75-8	2-Chloroethyl Vinyl Ether	13.	U
75-35-4	1,1-Dichloroethene	6.3	U	75-25-2	Bromoform	6.3	U
75-34-3	1,1-Dichloroethane	6.3	U	108-10-1	4-Methyl-2-pentanone	13.	U
156-60-5	trans-1,2-Dichloroethene	6.3	U	591-78-6	2-Hexanone	13.	U
67-66-3	Chloroform	6.3	U	127-18-4	Tetrachloroethene	6.3	U
107-06-2	1,2-Dichloroethane	6.3	U	79-34-5	1,1,2,2-Tetrachloroethane	6.3	U
78-93-3	2-Butanone	13.	U	108-88-3	Toluene	6.3	U
71-55-6	1,1,1-Trichloroethane	6.3	U	108-90-7	Chlorobenzene	6.3	U
56-23-5	Carbon Tetrachloride	6.3	U	100-41-4	Ethyl Benzene	6.3	U
108-05-4	Vinyl Acetate	13.	U	100-42-5	Styrene	6.3	U
75-27-4	Bromodichloromethane	6.3	U		Total Xylenes	6.3	U
78-87-5	1,2-Dichloropropane	6.3	U				

DATA REPORTING QUALIFIERS

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

Value If the result is a value greater than or equal to the detection limit then report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10ug and a concentration of 3ug is calculated, then report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: [illegible]
Case : [illegible]

Sample Number
D-[illegible]

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low
Date extracted/prepared: 05-13-86
Date analyzed: 05-16-86
Conc/Dil Factor: 41.46
Percent moisture (decanted): 21%

GPC Cleanup: No
Separatory Funnel Extraction: Yes
Continuous Liquid - Liquid Extraction: No

CAS Number		ug/kg		CAS Number		ug/kg	
108-95-2	Phenol	420	U	83-32-9	Acenaphthene	69.	J
111-44-4	bis(2-Chloroethyl) ether	420	U	51-28-5	2,4-Dinitrophenol	2100	U
95-57-8	2-Chlorophenol	420	U	100-02-7	4-Nitrophenol	2100	U
541-73-1	1,3-Dichlorobenzene	420	U	132-64-9	Dibenzofuran	53.	J
106-46-7	1,4-Dichlorobenzene	420	U	121-14-2	2,4-Dinitrotoluene	420	U
100-51-6	Benzyl Alcohol	420	U	606-20-2	2,6-Dinitrotoluene	420	U
95-50-1	1,2-Dichlorobenzene	420	U	84-66-2	Diethylphthalate	420	U
95-48-7	2-Methylphenol	420	U	7005-72-3	4-Chlorophenyl Phenyl ether	420	U
39638-32-9	bis(2-Chloroisopropyl) ether	420	U	86-73-7	Fluorene	200	J
106-44-5	4-Methylphenol	420	U	100-01-6	4-Nitroaniline	2100	U
621-64-7	N-Nitroso-Di-n-propylamine	420	U	534-52-1	4,6-Dinitro-2-methylphenol	2100	U
67-72-1	Hexachloroethane	420	U	86-30-6	N-nitrosodiphenylamine (1)	420	U
98-95-3	Nitrobenzene	420	U	101-55-3	4-Bromophenyl Phenyl ether	420	U
78-59-1	Isophorone	420	U	118-74-1	Hexachlorobenzene	420	U
88-75-5	2-Nitrophenol	420	U	87-86-5	Pentachlorophenol	2100	U
105-67-9	2,4-Dimethylphenol	420	U	85-01-8	Phenanthrene	1400	
65-85-0	Benzoic Acid	2100	U	120-12-7	Anthracene	390	J
111-91-1	bis(2-Chloroethoxy) Methane	420	U	84-74-2	Di-n-butylphthalate	420	U
120-83-2	2,4-Dichlorophenol	420	U	206-44-0	Fluoranthene	1800	
120-82-1	1,2,4-Trichlorobenzene	420	U	129-00-0	Pyrene	1300	
91-20-3	Naphthalene	420	U	85-68-7	Butyl Benzyl Phthalate	420	U
106-47-8	4-Chloroaniline	420	U	91-94-1	3,3'-Dichlorobenzidine	850	U
87-68-3	Hexachlorobutadiene	420	U	56-55-3	Benzo(a)anthracene	730	
59-50-7	4-Chloro-3-methylphenol	420	U	117-81-7	bis(2-ethylhexyl)phthalate	420	U
91-57-6	2-Methylnaphthalene	420	U	218-01-9	Chrysene	730	
77-47-4	Hexachlorocyclopentadiene	420	U	117-84-0	Di-n-octyl Phthalate	420	U
88-06-2	2,4,6-Trichlorophenol	420	U	205-99-2	Benzo(b)fluoranthene	1200	II
95-95-4	2,4,5-Trichlorophenol	2100	U	207-08-9	Benzo(k)fluoranthene	1200	II
91-58-7	2-Chloronaphthalene	420	U	50-32-8	Benzo(a)pyrene	580	
88-74-4	2-Nitroaniline	2100	U	193-39-5	Indeno(1,2,3-cd)pyrene	290	J
131-11-3	Dimethyl Phthalate	420	U	53-70-3	Dibenz(a,h)anthracene	110	J
208-96-8	Acenaphthylene	72.	J	191-24-2	Benzo(g,h,i)perylene	260	J
99-09-2	3-Nitroaniline	2100	U				

(1) Cannot be separated from diphenylamine

II indistinguishable isomers

Sample Number
D-SEDIMEN

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: [Low] Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Data Analyzed: 05/16/86
Conc/Dil Factor: 1.25

CAS Number		ug/l or (ug/Kg) (Circle One)	
319-84-6	Alpha - BHC	10.	U
319-85-7	Beta - BHC	10.	U
319-86-8	Delta - BHC	10.	U
58-89-9	Gamma - BHC(Lindane)	10.	U
76-44-8	Heptachlor	10.	U
309-00-2	Aldrin	10.	U
1024-57-3	Heptachlor Epoxide	10.	U
959-98-8	Endosulfan I	10.	U
60-57-1	Dieldrin	20.	U
72-55-9	4-4' - DDE	20.	U
72-20-8	Endrin	20.	U
33213-65-9	Endosulfan II	20.	U
72-54-8	4-4' - DDD	20.	U
1031-07-8	Endosulfan Sulfate	20.	U
50-29-3	4-4' - DDT	20.	U
72-43-5	Methoxychlor	100	U
53494-70-5	Endrin Ketone	20.	U
57-74-9	Chlordane	100	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor - 1016	100	U
11104-28-2	Aroclor - 1221	100	U
11141-16-5	Aroclor - 1232	100	U
53469-21-9	Aroclor - 1242	100	U
12672-29-6	Aroclor - 1248	100	U
11097-69-1	Aroclor - 1254	200	U
11096-82-5	Aroclor - 1260	200	U

V(i) = Volume of extract injected (ul)
V(s) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(s) _____ or W(s) 30.41 V(t) 2000.00 V(i) 5.0

Sample Number
D-SEDIMEN

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: [Low] Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Data Analyzed: 05/22/86
Conc/Dil Factor: 1.25

CAS Number		ug/l or [ug/Kg] (Circle One)	
319-84-6	Alpha - BHC	10.	U
319-85-7	Beta - BHC	10.	U
319-86-8	Delta - BHC	10.	U
58-89-9	Gamma - BHC(Lindane)	10.	U
76-44-8	Heptachlor	10.	U
309-00-2	Aldrin	10.	U
1024-57-3	Heptachlor Epoxide	10.	U
959-98-8	Endosulfan I	10.	U
60-57-1	Dieldrin	20.	U
72-55-9	4-4' - DDE	20.	U
72-20-8	Endrin	20.	U
33213-65-9	Endosulfan II	20.	U
72-54-8	4-4' - DDD	20.	U
1031-07-8	Endosulfan Sulfate	20.	U
50-29-3	4-4' - DDT	20.	U
72-43-5	Methoxychlor	100	U
53494-70-5	Endrin Ketone	20.	U
57-74-9	Chlordane	100	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor - 1016	100	U
11104-28-2	Aroclor - 1221	100	U
11141-16-5	Aroclor - 1232	100	U
53469-21-9	Aroclor - 1242	100	U
12672-29-6	Aroclor - 1248	100	U
11097-69-1	Aroclor - 1254	200	U
11096-82-5	Aroclor - 1260	200	U

V(i) = Volume of extract injected (ul)
V(s) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(s) _____ or W(s) 30.41 V(t) 2000.00 V(i) 1.0

3. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found: if so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found ")

Laboratory Name: CompuChem Laboratories

Case No: URS WEST

Sample Number: D-SEDIMENT

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOLATILE COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SAMPLE NUMBER 0-SEDIMENT

COMPUCHEM FILE GH08500815

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	610-48-0	PNA ANTHRACENE, 1-METHYL-	SEMI2	941	460 ~~360.~~	J
2	832-64-4	PNA PHENANTHRENE, 4-METHYL-	SEMI2	950	240 ~~230.~~	J
3	238-84-6	PNA 11H-BENZO[A]FLUORENE	SEMI2	1059	170 ~~150.~~	J
4	2381-21-7	PNA PYRENE, 1-METHYL-	SEMI2	1069	200 ~~190.~~	J
5	82-05-3	PNA 7H-BENZ[DE]ANTHRACEN-7-ONE	SEMI2	1126	250 ~~220.~~	J
6	192-97-2	PNA BENZO[E]PYRENE	SEMI2	1333	330 ~~260.~~	J
~~7~~	~~191-24-2~~	PNA BENZO[GHI]PERYLENE	SEMI2	1603	~~360 270.~~	J

42.4

~~33.400~~ 40.00

SPECTROSCOPIST _____

DATE 5/20/89

4. Raw Data — In order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatograms(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)
- Calibration plots (area vs. Concentration) for 4,4'-DDT, 4,4'-DDD, 4,4'-DDE, or taxaphene (where appropriate)

c Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

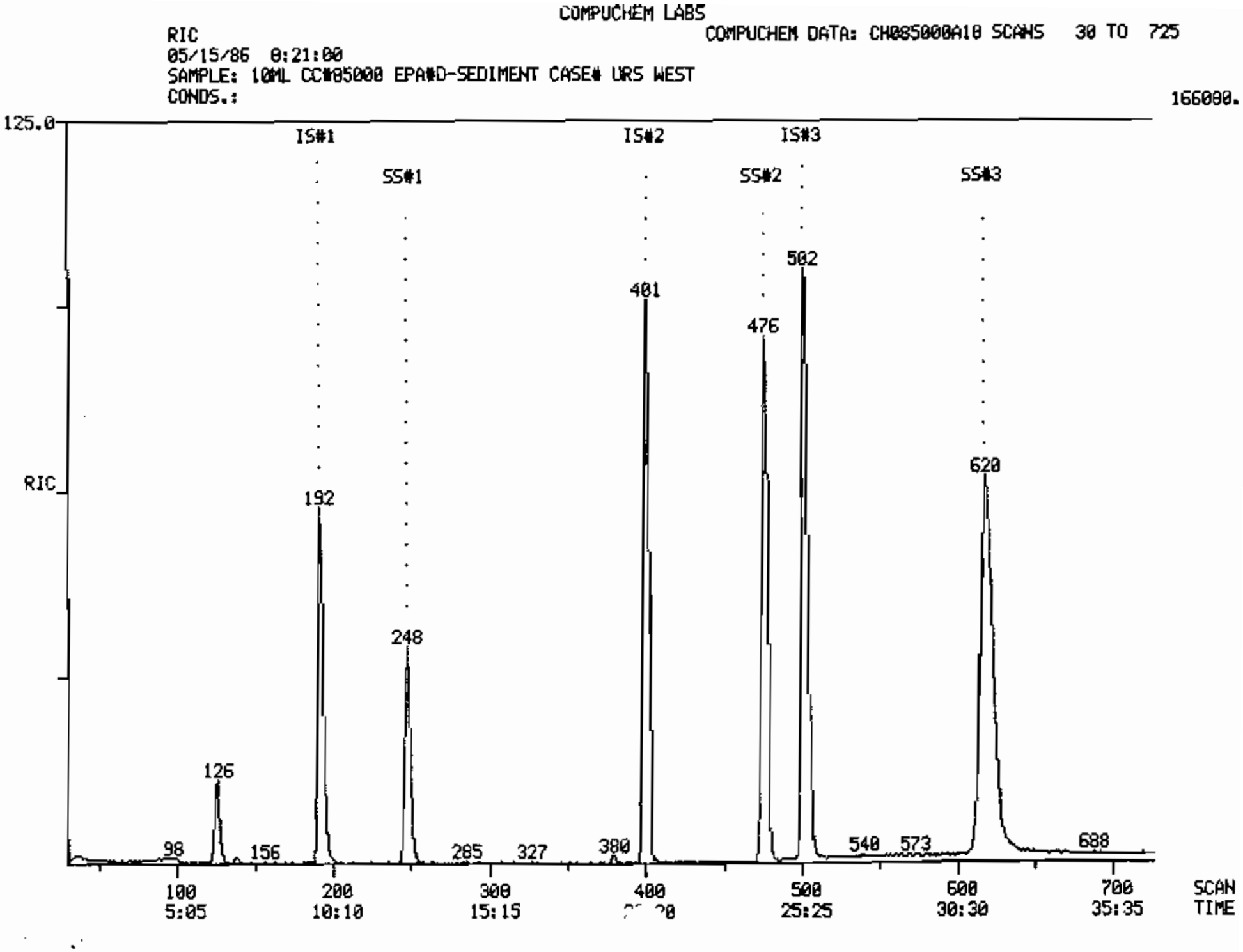
d GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e Quantitation Calculation of tentative ID concentration(s)

f Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
RIC
COMPUCHEM DATA: CH085000A10 SCANS 30 TO 725
05/15/86 0:21:00
SAMPLE: 10ML CC#85000 EPA#D-SEDIMENT CASE# URS WEST
CONDS.:
166000.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
502
401
476
620
RIC
192
248
126
98
156
285
327
380
540
573
688
100
5:05
200
10:10
300
15:15
400
500
25:25
600
30:30
700
35:35
SCAN
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: E23B FILENAME: 0H085000A18 DATE: 05/15/86
SHIFT STD: 0S860515C18 TIME: 8:21

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1	49664.	68161.	-27.	PASS
*248 1,4-DIFLUDROBENZENE (IS) <540-36-3> E6#1	203471.	277912.	-27.	PASS
*27D D5-CHLOROBENZENE (IS)	199770.	268284.	-26.	PASS

QUANTITATION REPORT FILE: GH085000A18

DATA: GH085000A18.TI
05/15/86 8:21:00
SAMPLE: 10ML CC#85000 EPA#0-SEDIMENT CASE# URS WEST
SNOS.:
SUBMITTED BY: 18 ANALYST: 819

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1
2	221 CHLOROMETHANE <75-01-4> E5#2
3	220 BROMOMETHANE <78-83-9> E5#3
4	231 VINYL CHLORIDE <75-01-4> E5#4
5	209 CHLOROETHANE <75-00-3> E5#5
6	222 METHYLENE CHLORIDE <75-09-2> E5#6
7	252 ACETONE (2-PROPANONE) <67-64-1> E5#7
8	254 CARBON DISULFIDE <75-15-0> E5#8
9	216 1,1-DICHLOROETHYLENE <75-35-4> E5#9
10	214 1,1-DICHLOROETHANE <75-34-3> E5#10
11	226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E5#11
12	211 CHLOROFORM <67-66-3> E5#12
13	215 1,2-DICHLOROETHANE <107-06-2> E5#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E6#1
15	253 2-BUTANONE <78-93-3> E6#2
16	227 1,1,1-TRICHLOROETHANE <71-55-6> E6#3
17	206 CARBON TETRACHLORIDE <56-23-5>
18	257 VINYL ACETATE <108-05-4> E6#5
19	212 BROMODICHLOROMETHANE <75-27-4> E6#6
20	217 1,2-DICHLOROPROPANE <78-87-5> E6#7
21	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E6#8
22	229 TRICHLOROETHYLENE <79-01-6> E6#9
23	208 CHLORODIBROMOMETHANE <124-48-1> E6#10
24	228 1,1,2-TRICHLOROETHANE <79-00-5> E6#11
25	203 BENZENE <71-43-2> E6#12
26	218 CIS-1,3-DICHLOROPROPENE <10061-01-5> E6#13
27	210 2-CHLOROETHYL VINYL ETHER <110-75-8> E6#14
28	205 BROMOFORM <75-25-2> E6#15
29	*270 D5-CHLOROBENZENE (IS)
30	256 4-METHYL-2-PENTANONE <108-10-1> E7#2
31	255 2-HEXANONE <591-78-6> E7#3
32	224 TETRACHLOROETHENE <127-18-4> E7#4
33	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E7#5
34	225 TOLUENE <108-88-3> E7#6
35	207 CHLOROBENZENE <108-90-7> E7#7
36	219 ETHYLBENZENE <100-41-4> E7#8
37	251 STYRENE <100-42-5> E7#9
38	240 M-XYLENE E7#10
39	271 O,P-XYLENE E7#11
40	#258 D4-1,2-DICHLOROETHANE E8#2
41	#247 BROMOFLUOROBENZENE <460-00-4> E8#3
42	#233 D8-TOLUENE E8#4

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	192	9:46	1	1.000	A BB	49664.	50.000 UG/KG	16.05
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	126	6:24	1	0.656	A BB	16529.	18.085	UG/KG	5.81
7	43	139	7:04	1	0.724	A BB	3359.	9.373	UG/KG	3.01
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	401	20:23	14	1.000	A BB	203471.	50.000	UG/KG	16.05
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	NOT FOUND								
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	502	25:31	29	1.000	A BB	199770.	50.000	UG/KG	16.05
30	43	NOT FOUND								
31	43	NOT FOUND								
32	164	NOT FOUND								
33	83	NOT FOUND								
34	92	NOT FOUND								
35	112	NOT FOUND								
36	106	NOT FOUND								
37	104	NOT FOUND								
38	106	NOT FOUND								
39	106	NOT FOUND								
40	65	248	12:36	1	1.292	A BV	68246.	44.736	UG/KG	14.36
41	95	619	31:28	29	1.233	A BB	147450.	44.671	UG/KG	14.34
42	98	476	24:12	1	2.479	A BB	169115.	44.658	UG/KG	14.34

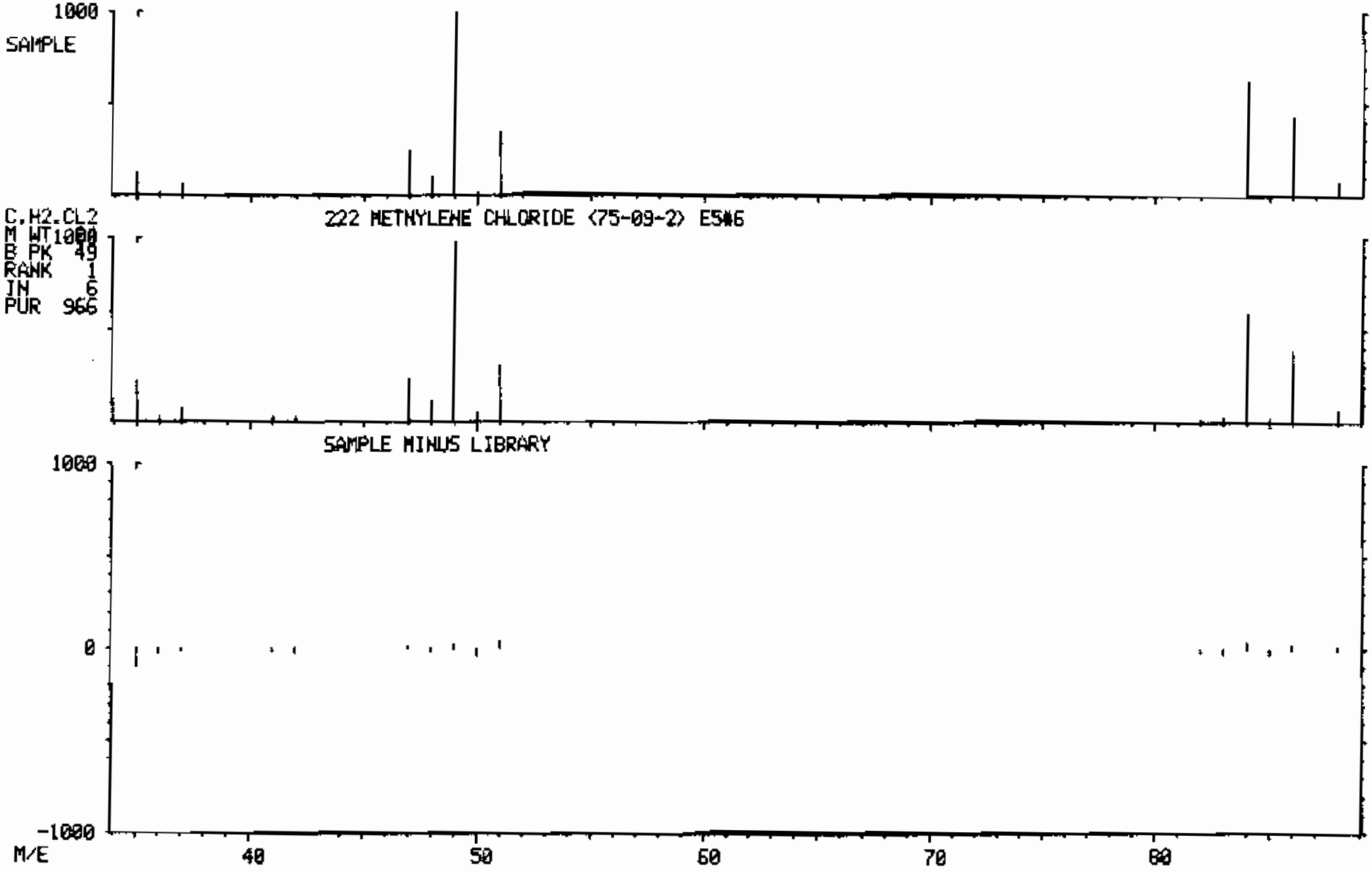
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:43	1.01	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:41		10.000			50.00		0.925	
3	2:36		10.000			50.00		1.296	
4	3:15		10.000			50.00		0.885	
5	4:10		10.000			50.00		0.489	
6	6:15	1.02	5.000	0.13	18.08	50.00	0.333	0.920	0.36
7	6:55	1.02	10.000	0.07	9.37	50.00	0.068	0.361	0.19
8	7:56		5.000			50.00		1.773	
9	9:12		5.000			50.00		0.973	
10	10:34		5.000			50.00		1.597	
11	11:17		5.000			50.00		1.088	
12	11:54		5.000			50.00		2.278	
13	12:39		5.000			50.00		1.678	
14	20:20	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:33		10.000			50.00		0.029	
16	13:59		5.000			50.00		0.504	
17	14:23		5.000			50.00		0.671	
18	14:32		10.000			50.00		0.289	
19	14:57		5.000			50.00		0.577	
20	16:19		5.000			50.00		0.282	
21	16:37		5.000			50.00		0.441	
22	17:11		5.000			50.00		0.477	
23	17:47		5.000			50.00		0.684	
24	17:54		5.000			50.00		0.331	
25	17:41		5.000			50.00		0.696	
26	17:57		5.000			50.00		0.331	
27	19:01		10.000			50.00		0.211	
28	20:35		5.000			50.00		0.551	
29	25:31	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:06		10.000			50.00		0.444	
31	22:40		10.000			50.00		0.328	
32	23:02		5.000			50.00		0.492	
33	22:56		5.000			50.00		0.623	
34	24:21		5.000			50.00		0.563	
35	25:37		5.000			50.00		0.904	
36	28:07		5.000			50.00		0.447	
37	33:21		5.000			50.00		0.753	
38	33:48		5.000			50.00		0.485	
39	35:11		5.000			100.00		0.450	
40	12:33	1.00	10.000	0.13	44.74	50.00	1.374	1.536	0.89
41	31:25	1.00	10.000	0.12	44.67	50.00	0.738	0.826	0.89
42	24:12	1.00	10.000	0.25	44.66	50.00	3.405	3.812	0.89

COMPUCHEM LABS

LIBRARY SEARCH
05/15/86 8:21:00 + 6:24
SAMPLE: 10ML CC#85000 EPA#D-SEDIMENT CASE# URS WEST
ENHANCED (S 15B 2N 0T)

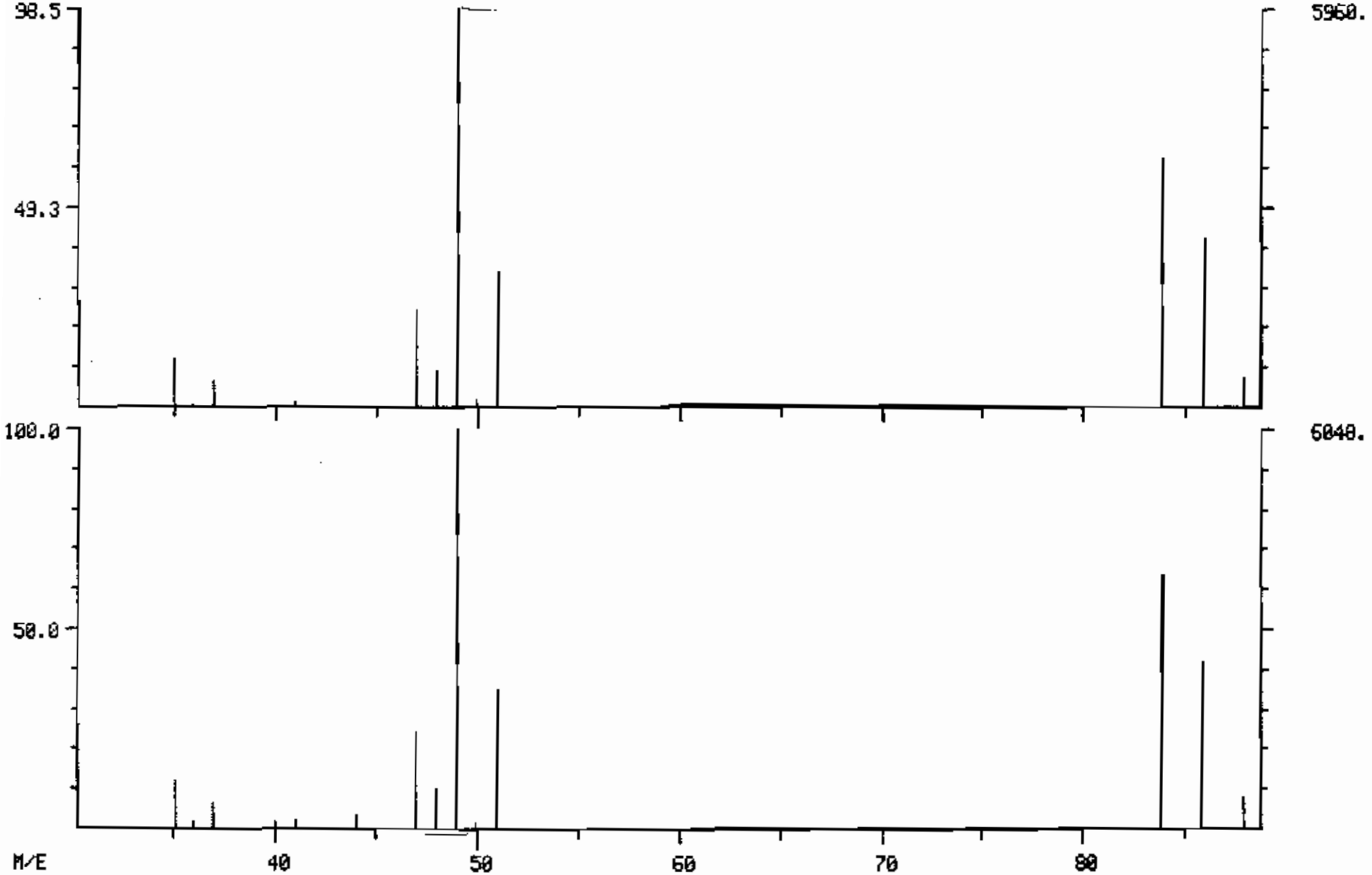
DATA: GH085000A18 # 126
BASE M/E: 49
RIC: 17919.



COMPUCHEM LABS

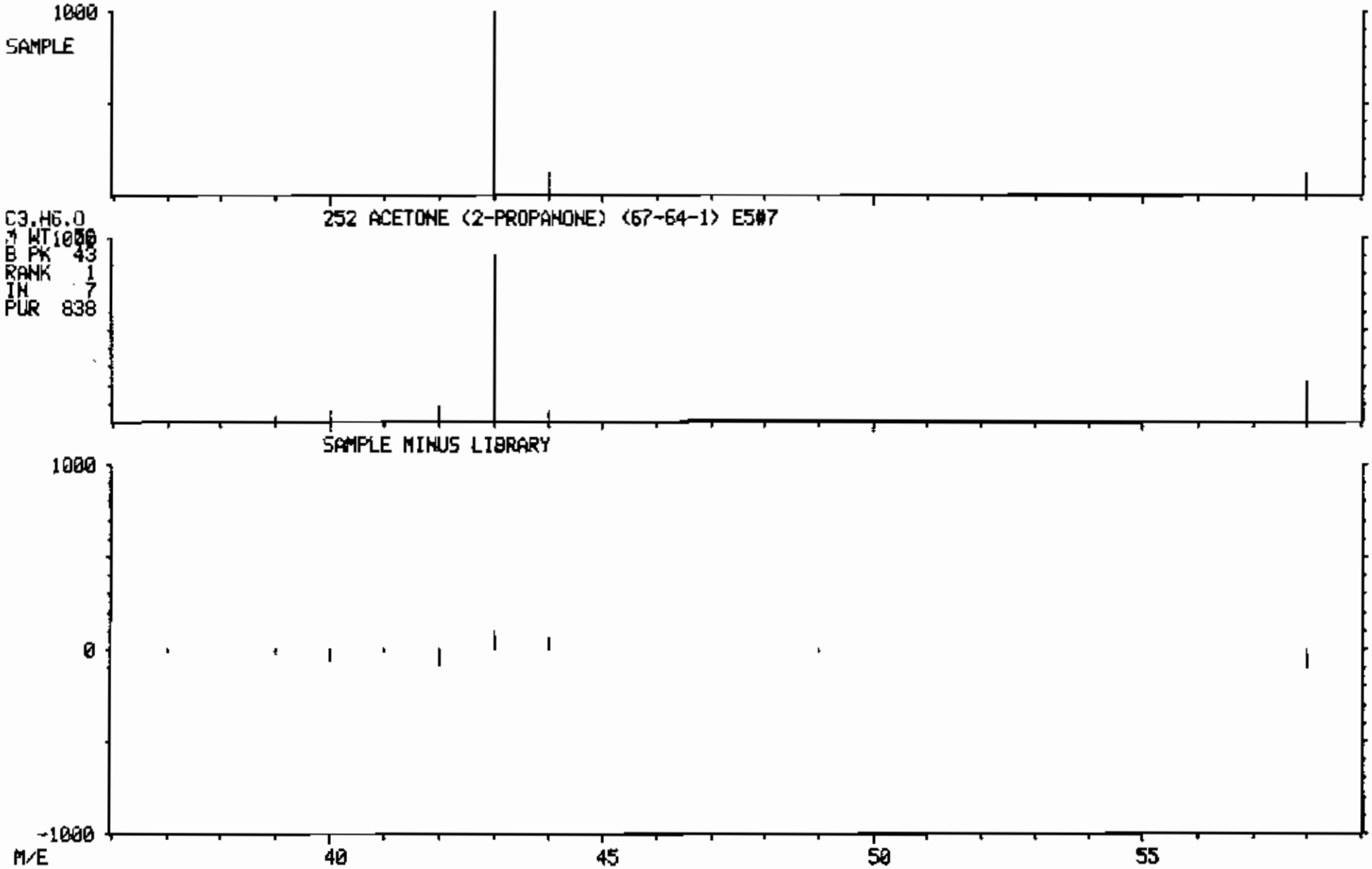
DUAL MASS SPECTRUM
05/15/85 8:21:00 + 6:24
SAMPLE: 10ML CC#85000 EPA#D-SEDIMENT CASE# URS WEST
ENHANCED (S 15B 2N) 222 METHYLENE CHLORIDE (75-09-2) E5#6

DATA: GH085000A18 #126 BASE M/E: 49/ 49
RIC: 17919./ 18783.



COMPUCHEM LABS

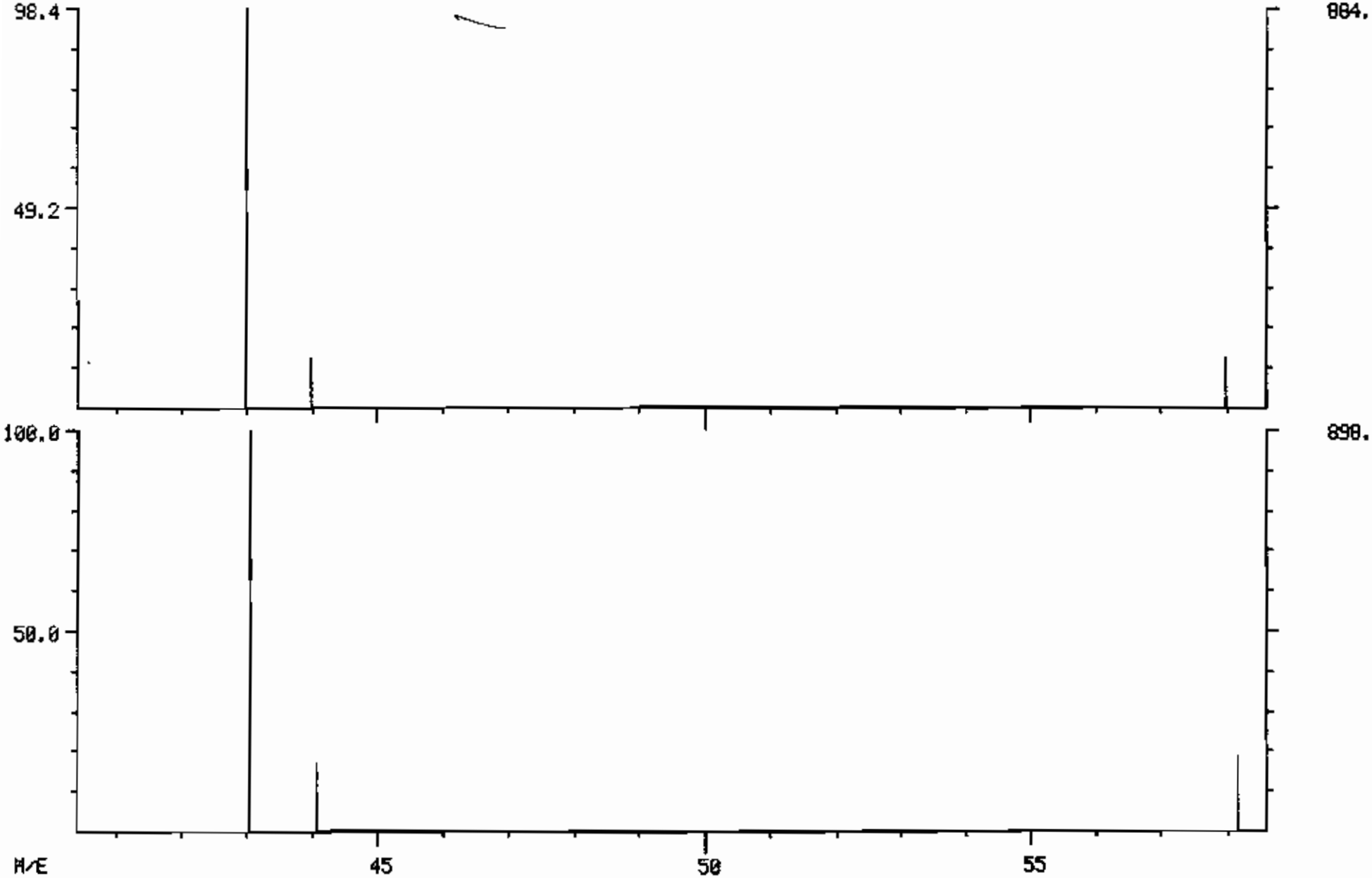
LIBRARY SEARCH DATA: GH08500BA1B # 139 BASE M/E: 43
05/15/86 8:21:00 + 7:04 RIC: 1099.
SAMPLE: 10ML CC#8500B EPA#D-SEDIMENT CASE# URS WEST
ENHANCED (S 15B 2N 0T)

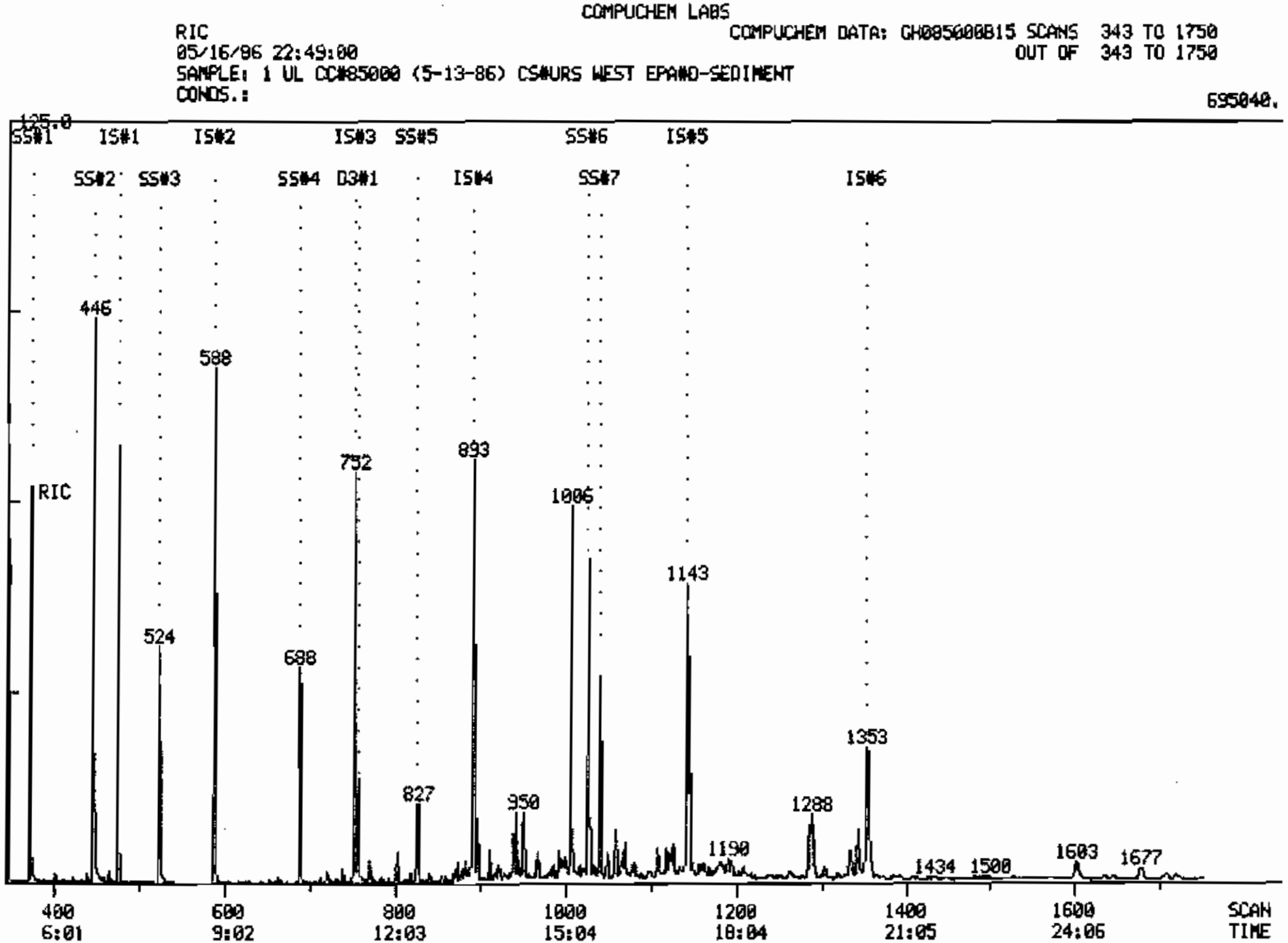


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/15/86 8:21:00 + 7:04
SAMPLE: 10ML CC#85000 EPA#D-SEDIMENT CASE# URS WEST
ENHANCED (S 15B ZN) 252 ACETONE (2-PROPANONE) (67-64-1) E5#7

DATA: GH085000A18 #139 BASE M/E: 43/ 43
RIC: 1099./ 1215.




COMPUCHEM LABS
RIC
05/16/96 22:49:00
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT
CONDS.:
COMPUCHEM DATA: GH085000B15 SCANS 343 TO 1750
OUT OF 343 TO 1750
695040.
125.0
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
D3#1
IS#4
SS#7
IS#6
RIC
446
588
524
688
752
827
893
950
1006
1143
1190
1288
1353
1434
1500
1603
1677
400
6:01
600
9:02
800
12:03
1000
15:04
1200
18:04
1400
21:05
1600
24:06
SCAN
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: SEMI2 FILENAME: QH085000B15 DATE: 05/16/86
SHIFT STD: HQ860516B15 TIME: 22:49

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	73D48.	56576.	29.	PASS
*460 D8-NAPHTHALENE (IS#2)	300660.	222968.	35.	PASS
*495 D10-ACENAPHTHENE (IS#3)	124408.	92712.	34.	PASS
*467 D10-PHENANTHRENE (IS#4)	154256.	117188.	32.	PASS
*499 D12-CHRYSENE (IS#5)	137860.	100736.	37.	PASS
*497 D12-PERYLENE (IS#6)	143496.	106208.	35.	PASS

QUANTITATION REPORT FILE: GH085000B15

DATA: GH085000B15.TI
05/16/86 22:49:00
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT
CONDS.:
SUBMITTED BY: 15 ANALYST: 803

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

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	610 PHENOL (Q1#3) <108-95-2>
3	411 BIS(2-CHLOROETHYL)ETHER (Q1#5) <111-44-4>
4	601 2-CHLOROPHENOL (Q1#6) <95-57-8>
5	421 1,3-DICHLORDBENZENE (Q1#7) <541-73-1>
6	422 1,4-DICHLOROBENZENE (Q1#8) <106-46-7>
7	474 BENZYL ALCOHOL (Q1#9) <100-51-6>
8	420 1,2-DICHLOROBENZENE (Q1#10) <95-50-1>
9	620 2-METHYLPHENOL (Q1#11) <95-48-7>
10	412 BIS(2-CHLOROISOPROPYL)ETHER (Q1#12) <39638-32-9>
11	622 4-METHYLPHENOL (Q1#13) <106-44-5>
12	442 N-NITROSO-DI-N-PROPYLAMINE (Q1#14) <621-64-7>
13	436 HEXACHLOROETHANE (Q1#15) <67-72-1>
14	440 NITROBENZENE (Q1#16) <98-95-3>
15	*460 D8-NAPHTHALENE (IS#2)
16	438 ISOPHORONE (Q2#2) <78-59-1>
17	606 2-NITROPHENOL (Q2#3) <88-75-5>
18	603 2,4-DIMETHYLPHENOL (Q2#4) <105-67-9>
19	625 BENZOIC ACID (Q2#5) <65-85-0>
20	410 BIS(2-CHLOROETHOXY)METHANE (Q2#6) <111-91-1>
21	602 2,4-DICHLOROPHENOL (Q2#7) <120-83-2>
22	446 1,2,4-TRICHLOROBENZENE (Q2#8) <120-82-1>
23	439 NAPHTHALENE (Q2#9) <91-20-3>
24	475 4-CHLOROANILINE (Q2#10) <106-47-8>
25	434 HEXACHLORDBUTADIENE (Q2#11) <87-68-3>
26	608 P-CHLORO-M-CRESOL (Q2#12) <59-50-7>
27	477 2-METHYLNAPHTHALENE (Q2#13) <91-57-6>
28	*495 D10-ACENAPHTHENE (IS#3)
29	435 HEXACHLOROCYCLOPENTADIENE (Q3#2) <77-47-4>
30	611 2,4,6-TRICHLOROPHENOL (Q3#3) <88-06-2>
31	626 2,4,5-TRICHLOROPHENOL (Q3#4) <95-95-4>
32	416 2-CHLORONAPHTHALENE (Q3#5) <91-58-7>
33	478 2-NITROANILINE (Q3#6) <88-74-4>
34	425 DIMETHYL PHTHALATE (Q3#7) <131-11-3>
35	402 ACENAPHTHYLENE (Q3#8) <208-96-8>
36	479 3-NITROANILINE (Q3#9) <99-09-2>
37	401 ACENAPHTHENE (Q3#10) <83-32-9>
38	@605 2,4-DINITROPHENOL (Q3#11) <51-28-5>
39	607 4-NITROPHENOL (Q3#12) <100-02-7>
40	476 DIBENZOFURAN (Q3#13) <132-64-9>
41	427 2,4-DINITROTOLUENE (Q3#14) <121-14-2>
42	428 2,6-DINITROTOLUENE (Q3#15) <606-20-2>
43	424 DIETHYL PHTHALATE (Q3#16) <84-66-2>
44	417 4-CHLOROPHENYL PHENYL ETHER (Q3#17) <7005-72-3>
45	432 FLUORENE (Q3#18) <86-73-7>
46	480 4-NITROANILINE (Q3#19) <100-01-6>

NO	NAME
47	#467 D10-PHENANTHRENE (IS#4)
48	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
49	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
50	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
51	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
52	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
53	444 PHENANTHRENE (G4#7) <85-01-8>
54	403 ANTHRACENE (G4#8) <120-12-7>
55	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
56	431 FLUORANTHENE (G4#10) <206-44-0>
57	#459 D12-CHRYSENE (IS#5)
58	445 PYRENE (G5#3) <129-00-0>
59	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
60	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
61	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
62	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
63	415 CHRYSENE (G5#8) <218-01-9>
64	#497 D12-PERYLENE (IS#6)
65	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
66	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
67	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
68	406 BENZO(A)PYRENE (G6#5) <50-32-8>
69	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
70	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
71	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
72	#619 2-FLUOROPHENOL (SS#1)
73	#612 D5-PHENOL (SS#2)
74	#447 D5-NITROBENZENE (SS#3)
75	#448 2-FLUOROBIPHENYL (SS#4)
76	#628 2,4,6-TRIBROMOPHENOL (SS#5)
77	#496 D14-TERPHENYL (SS#6)
78	#471 D10-PYRENE
79	456 1,2,3,4-TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	475	7:09	1	1.000	A BB	73048.	40.000 NG	5.22
2	94	NOT FOUND							
3	93	NOT FOUND							
4	128	NOT FOUND							
5	146	NOT FOUND							
6	146	NOT FOUND							
7	108	NOT FOUND							
8	146	NOT FOUND							
9	108	NOT FOUND							
10	45	NOT FOUND							
11	108	NOT FOUND							
12	70	NOT FOUND							
13	117	NOT FOUND							
14	77	NOT FOUND							
15	136	588	8:51	15	1.000	A BV	300660.	40.000 NG	5.22
16	82	NOT FOUND							
17	139	NOT FOUND							
18	122	NOT FOUND							
19	122	NOT FOUND							
20	93	NOT FOUND							
21	162	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
22	180	NOT FOUND								
23	128	NOT FOUND								
24	127	NOT FOUND								
25	225	NOT FOUND								
26	107	NOT FOUND								
27	142	NOT FOUND								
28	164	752	11:19	28	1.000	A BB	124408.	40.000	NG	5.22
29	237	NOT FOUND								
30	196	NOT FOUND								
31	196	NOT FOUND								
32	162	NOT FOUND								
33	65	NOT FOUND								
34	163	NOT FOUND								
35	152	738	11:07	28	0.981	A BB	10844.	1.696	NG	0.22
36	138	NOT FOUND								
37	153	755	11:22	28	1.004	A*BB	6620.	1.612	NG	0.21
38	184	NOT FOUND								
39	139	NOT FOUND								
40	168	770	11:36	28	1.024	A BB	11480.	2.226	NG	0.29
41	89	NOT FOUND								
42	165	NOT FOUND								
43	149	NOT FOUND								
44	204	NOT FOUND								
45	166	802	12:05	28	1.066	A BB	19336.	4.837	NG	0.63
46	138	NOT FOUND								
47	188	890	13:24	47	1.000	A VV	154256.	40.000	NG	5.22
48	198	NOT FOUND								
49	169	NOT FOUND								
50	248	NOT FOUND								
51	284	NOT FOUND								
52	266	NOT FOUND								
53	178	893	13:27	47	1.003	A VV	238344.	44.101	NG	5.76
54	178	897	13:31	47	1.008	A VV	39444.	9.252	NG	1.21
55	149	NOT FOUND								
56	202	1006	15:09	47	1.130	A VV	215017.	42.685	NG	5.57
57	240	1143	17:13	57	1.000	A VV	137860.	40.000	NG	5.22
58	202	1027	15:28	57	0.899	A VV	164676.	30.910	NG	4.04
59	149	NOT FOUND								
60	252	NOT FOUND								
61	228	1141	17:11	57	0.998	A VV	82496.	17.652	NG	2.31
62	149	NOT FOUND								
63	228	1146	17:16	57	1.003	A VV	73652.	17.255	NG	2.25
64	264	1353	20:23	64	1.000	A BV	143496.	40.000	NG	5.22
65	149	NOT FOUND								
66	252	1288	19:24	64	0.952	A*VV	114888.	~~23.570~~	NG	3.08
67	252	1288	19:24	64	0.952	A*VV	114888.	~~36.232~~	NG	4.73
68	252	1342	20:13	64	0.992	A VV	58432.	13.840	NG	1.81
69	276	1602	24:08	64	1.184	A BB	34084.	6.781	NG	0.89
70	278	1606	24:11	64	1.187	A BV	10364.	2.578	NG	0.34
71	276	1677	25:15	64	1.239	A BB	25272.	6.120	NG	0.80
72	112	372	5:36	1	0.783	A BV	179580.	58.483	NG	7.64
73	99	446	6:43	1	0.939	A BV	249760.	59.618	NG	7.79
74	82	524	7:53	15	0.891	A BV	111912.	30.426	NG	3.97
75	172	686	10:22	28	0.915	A BB	117716.	28.593	NG	3.73
76	141	827	12:27	28	1.100	A BB	9092.	34.969	NG	4.57
77	244	1040	15:40	57	0.910	A VV	85488.	25.927	NG	3.39

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
78	212	1025	15:26	57	0.897	A VB	112808.	26.335	NG	3.44
79	216	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:08	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	6:43		10.000			50.00		2.722	
3	6:49		10.000			50.00		2.193	
4	6:55		10.000			50.00		1.568	
5	7:06		10.000			50.00		1.671	
6	7:10		10.000			50.00		1.669	
7	7:19		10.000			50.00		0.880	
8	7:25		10.000			50.00		1.553	
9	7:29		10.000			50.00		1.510	
10	7:33		10.000			50.00		2.852	
11	7:40		10.000			50.00		1.563	
12	7:43		10.000			50.00		1.536	
13	7:49		10.000			50.00		0.787	
14	7:54		10.000			50.00		2.151	
15	8:50	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
16	8:13		10.000			50.00		0.998	
17	8:20		10.000			50.00		0.201	
18	8:22		10.000			50.00		0.356	
19	8:30		50.000			50.00		0.178	
20	8:31		10.000			50.00		0.497	
21	8:39		10.000			50.00		0.233	
22	8:47		10.000			50.00		0.284	
23	8:52		10.000			50.00		1.046	
24	8:57		10.000			50.00		0.427	
25	9:07		10.000			50.00		0.156	
26	9:36		10.000			50.00		0.476	
27	9:49		10.000			50.00		0.618	
28	11:19	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
29	10:08		10.000			50.00		0.332	
30	10:17		10.000			100.00		0.334	
31	10:17		50.000			100.00		0.334	
32	10:30		10.000			50.00		1.280	
33	10:40		50.000			50.00		0.475	
34	10:57		10.000			50.00		1.433	
35	11:06	1.00	10.000	0.10	1.70	50.00	0.070	2.055	0.03
36	11:14		50.000			50.00		0.353	
37	11:21	1.00	10.000	0.10	1.61	50.00	0.043	1.320	0.03
38	11:23		50.000			50.00		0.110	
39	11:27		50.000			50.00		0.238	
40	11:35	1.00	10.000	0.10	2.23	50.00	0.074	1.659	0.04
41	11:36		10.000			50.00		0.472	
42	11:02		10.000			50.00		0.289	
43	11:57		10.000			50.00		1.476	
44	12:03		10.000			50.00		0.551	
45	12:04	1.00	10.000	0.11	4.84	50.00	0.124	1.285	0.10
46	12:06		50.000			50.00		0.319	
47	13:23	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
48	12:10		50.000			50.00		0.117	
49	12:13		10.000			50.00		0.693	
50	12:44		10.000			50.00		0.261	
51	12:57		10.000			50.00		0.400	
52	13:12		50.000			50.00		0.177	

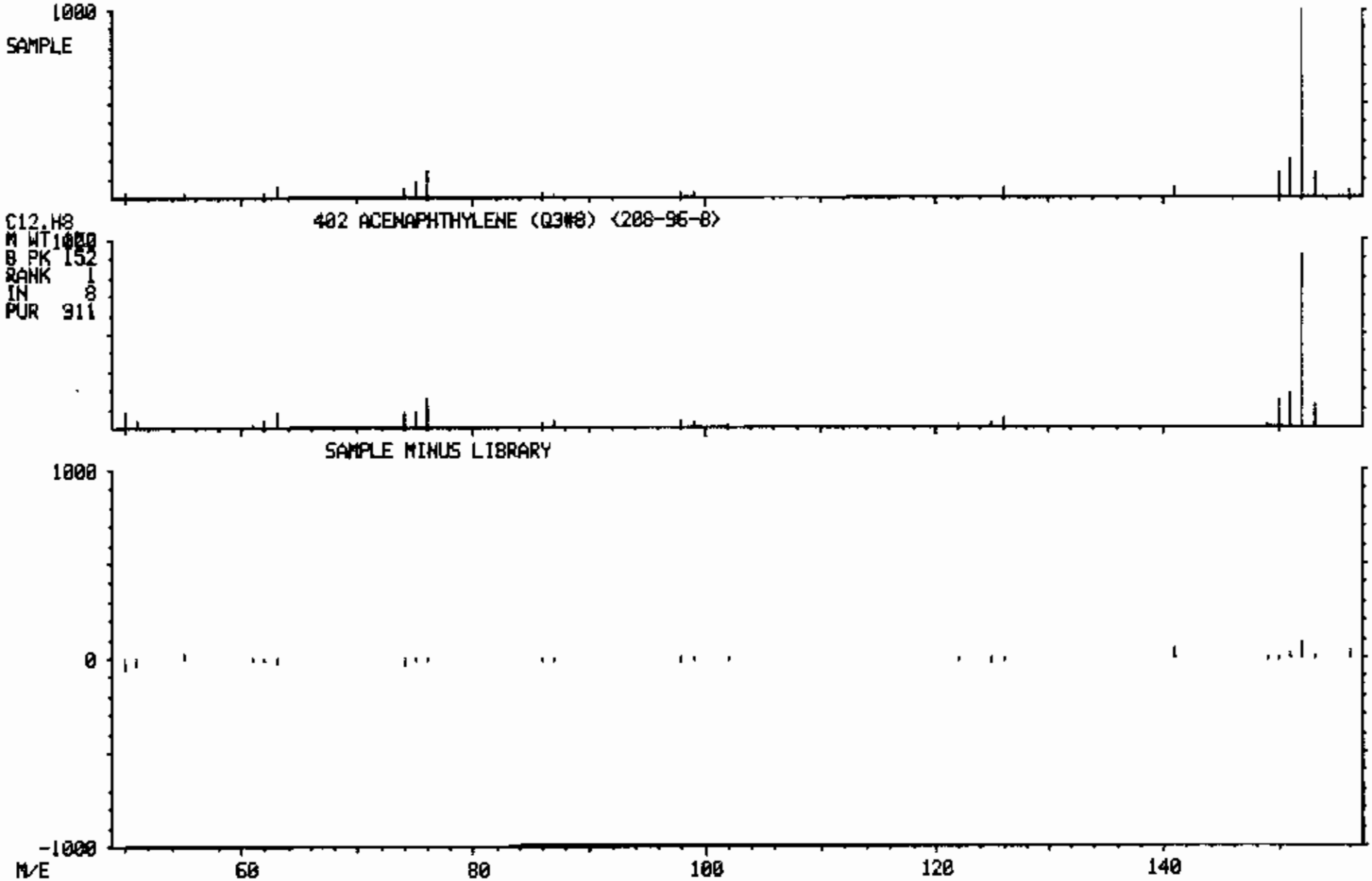
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
53	13: 25	1. 00	10. 000	0. 10	44. 10	50. 00	1. 236	1. 401	0. 88
54	13: 29	1. 00	10. 000	0. 10	9. 25	50. 00	0. 205	1. 106	0. 19
55	14: 13		10. 000			50. 00		1. 834	
56	15: 06	1. 00	10. 000	0. 11	42. 69	50. 00	1. 115	1. 306	0. 85
57	17: 09	1. 00	10. 000	0. 10	40. 00	40. 00	1. 000	1. 000	1. 00
58	15: 25	1. 00	10. 000	0. 09	30. 91	50. 00	0. 956	1. 546	0. 62
59	16: 19		10. 000			50. 00		0. 788	
60	17: 04		20. 000			50. 00		0. 449	
61	17: 07	1. 00	10. 000	0. 10	17. 65	50. 00	0. 479	1. 356	0. 35
62	17: 10		10. 000			50. 00		1. 245	
63	17: 12	1. 00	10. 000	0. 10	17. 25	50. 00	0. 427	1. 238	0. 35
64	20: 15	1. 01	10. 000	0. 10	40. 00	40. 00	1. 000	1. 000	1. 00
65	18: 16		10. 000			50. 00		1. 938	
66	19: 16	1. 01	10. 000	0. 10	23. 57	50. 00	0. 641	1. 359	0. 47
67	19: 20	1. 00	10. 000	0. 10	36. 23	50. 00	0. 641	0. 884	0. 72
68	20: 07	1. 00	10. 000	0. 10	13. 84	50. 00	0. 326	1. 177	0. 28
69	23: 59	1. 01	10. 000	0. 12	6. 78	50. 00	0. 190	1. 401	0. 14
70	24: 03	1. 01	10. 000	0. 12	2. 58	50. 00	0. 058	1. 121	0. 05
71	25: 06	1. 01	10. 000	0. 12	6. 12	50. 00	0. 141	1. 151	0. 12
72	5: 37	1. 00	0. 742	1. 06	58. 48	50. 00	1. 967	1. 681	1. 17
73	6: 42	1. 00	0. 948	0. 99	59. 62	50. 00	2. 735	2. 294	1. 19
74	7: 53	1. 00	0. 875	1. 02	30. 43	50. 00	0. 298	0. 489	0. 61
75	10: 21	1. 00	0. 906	1. 01	28. 59	50. 00	0. 757	1. 324	0. 57
76	12: 25	1. 00	1. 118	0. 98	34. 97	50. 00	0. 058	0. 084	0. 70
77	15: 37	1. 00	0. 907	1. 00	25. 93	50. 00	0. 496	0. 957	0. 52
78	15: 24	1. 00	10. 000	0. 09	26. 33	50. 00	0. 655	1. 243	0. 53
79	10: 31		1. 000			50. 00		0. 224	

COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:49:00 + 11:07
SAMPLE: 1 UL CC#05000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000815 # 738
ENHANCED (10B 2N 0T)

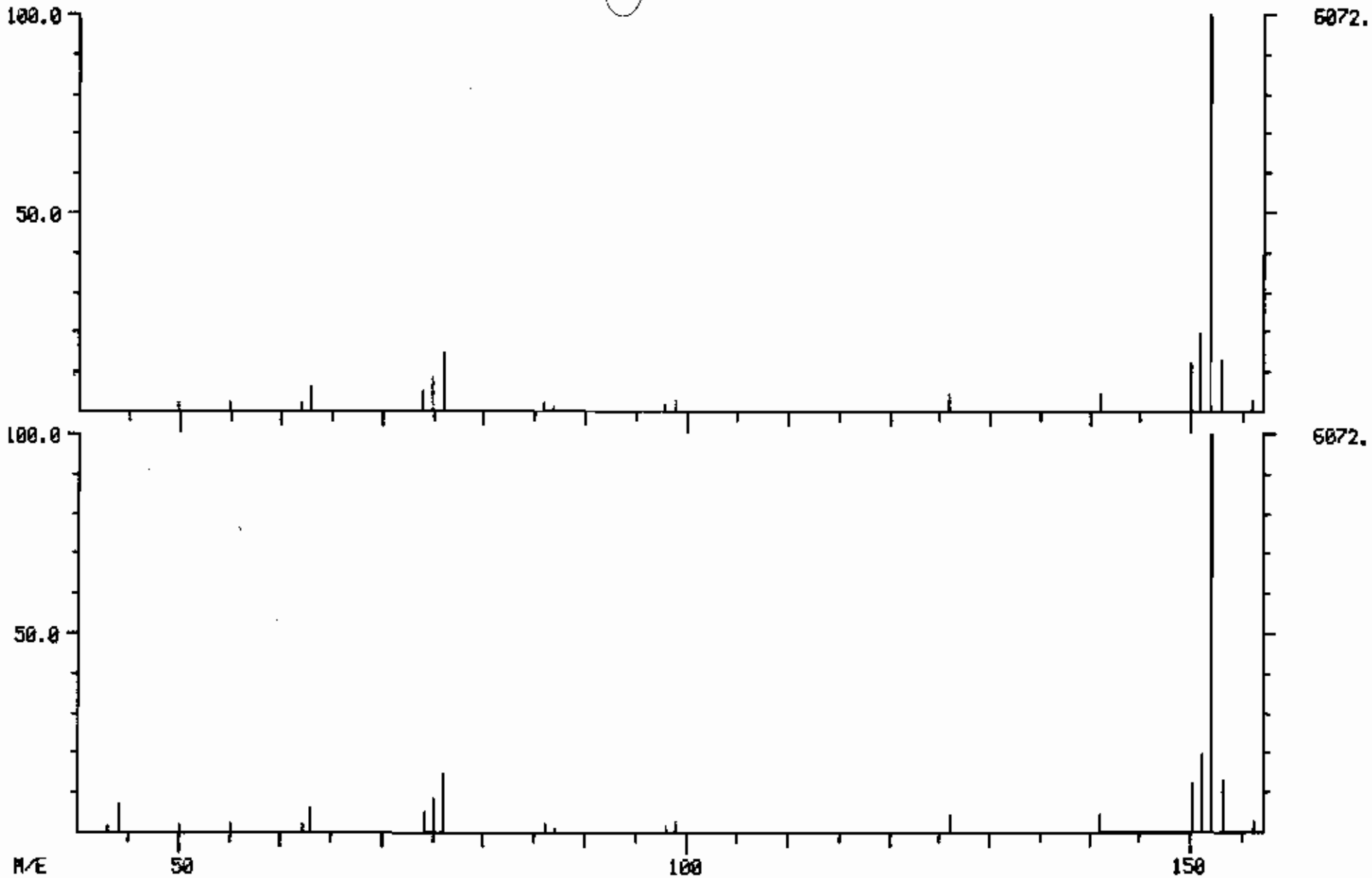
BASE M/E: 152
RIC: 12527.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/86 22:49:00 + 11:07
SAMPLE: 1 UL CC#65000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT
DATA: GH085000B15 #738 BASE M/E: 152/ 152
RIC: 12527./ 13087.

SECOND SPECTRUM
DATA: GH085000B15 #738 402 ACENAPHTHYLENE (Q3#8) <208-96-8>

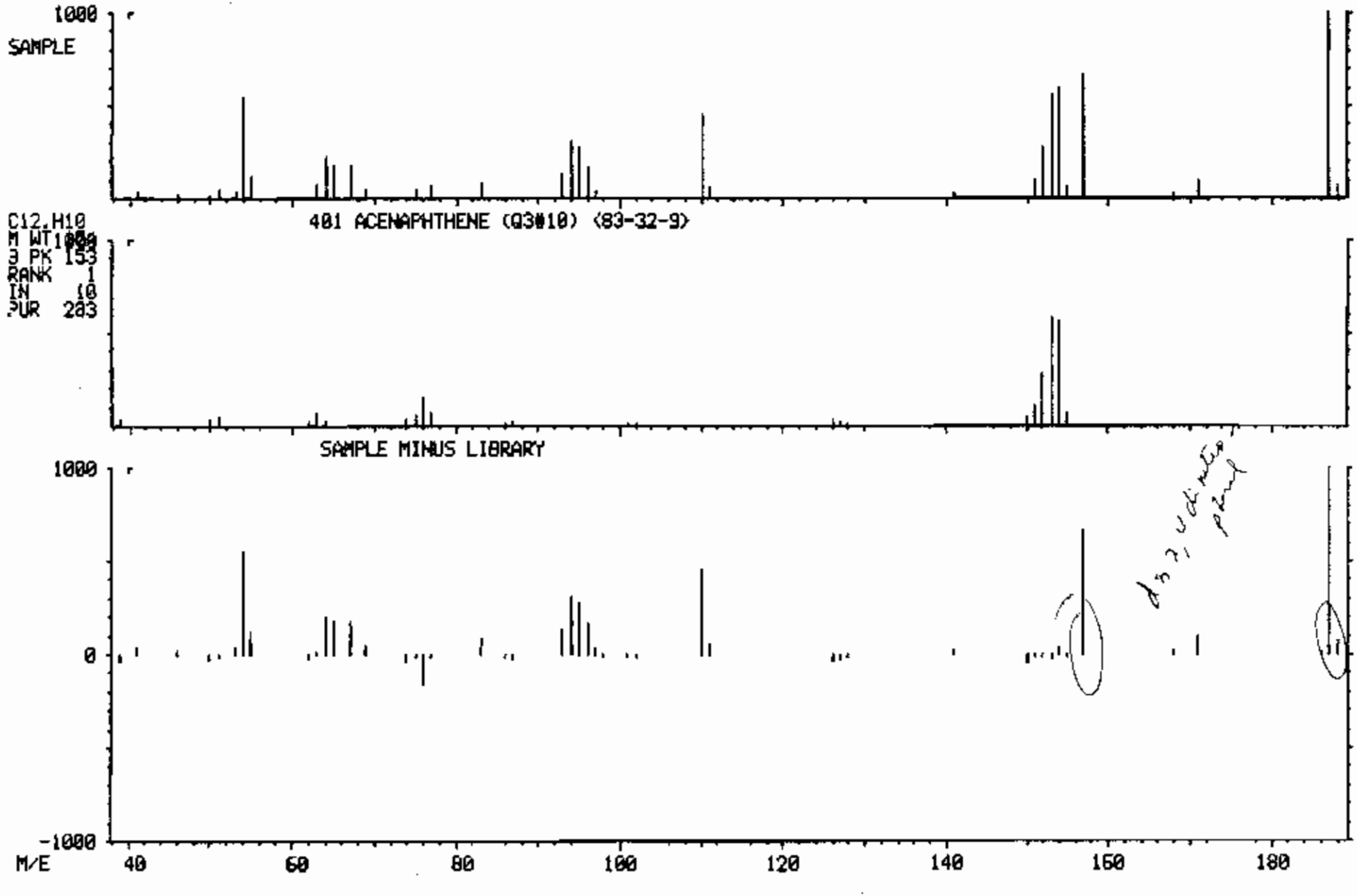


COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:49:00 + 11:22
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH0B5000B15 # 755
ENHANCED (100 2N 0T)

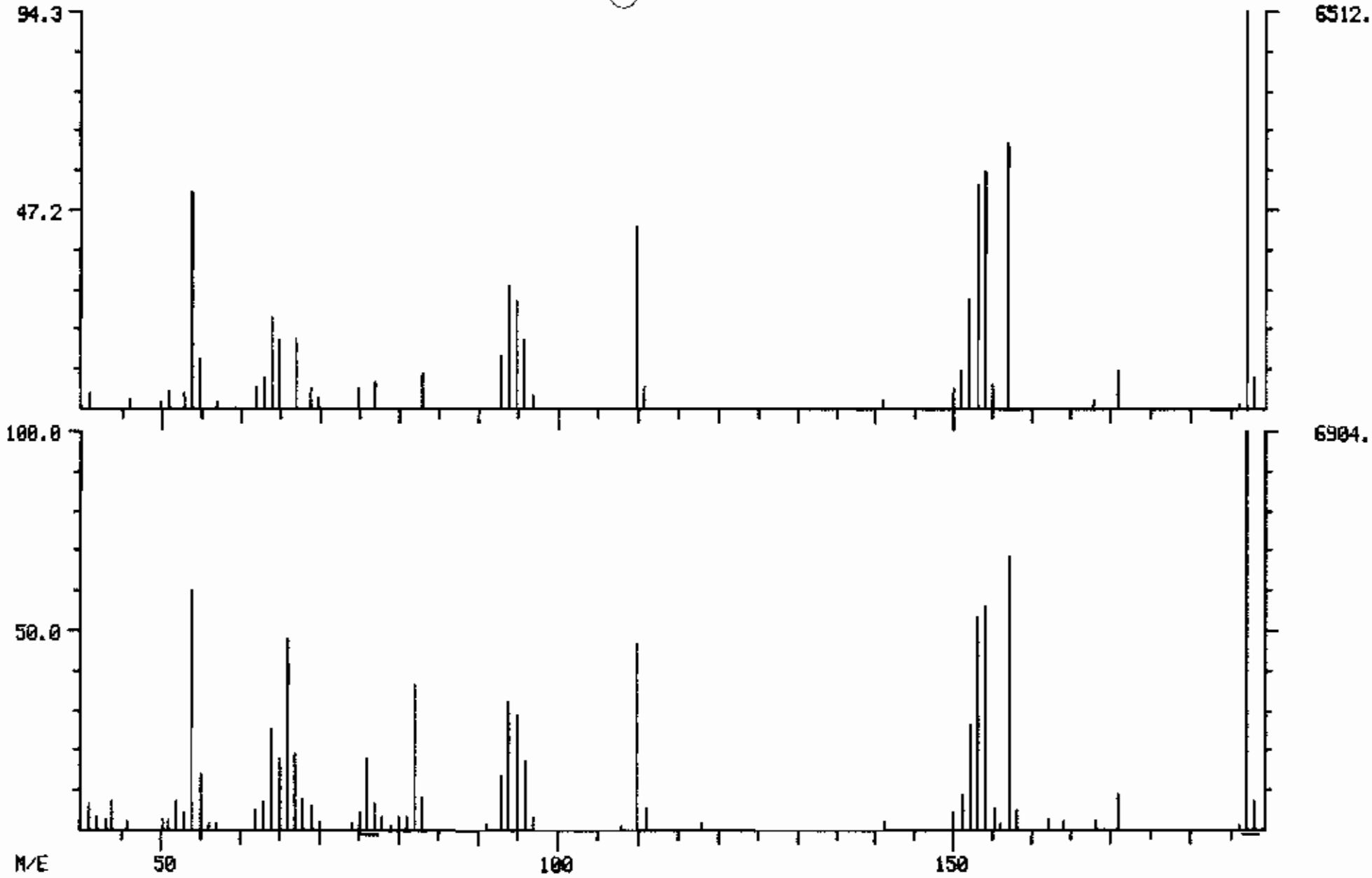
BASE M/E: 187
RIC: 43455.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/86 22:49:00 + 11:22
SAMPLE: 1 UL CC#85000 (5-13-06) CS#URS WEST EPA#D-SEDIMENT
DATA: GH085000015 #755 BASE M/E: 187/ 187
RIC: 44415./ 58815.

SECOND SPECTRUM
DATA: GH085000015 #755 401 ACENAPHTHENE (Q3#10) (83-32-9)

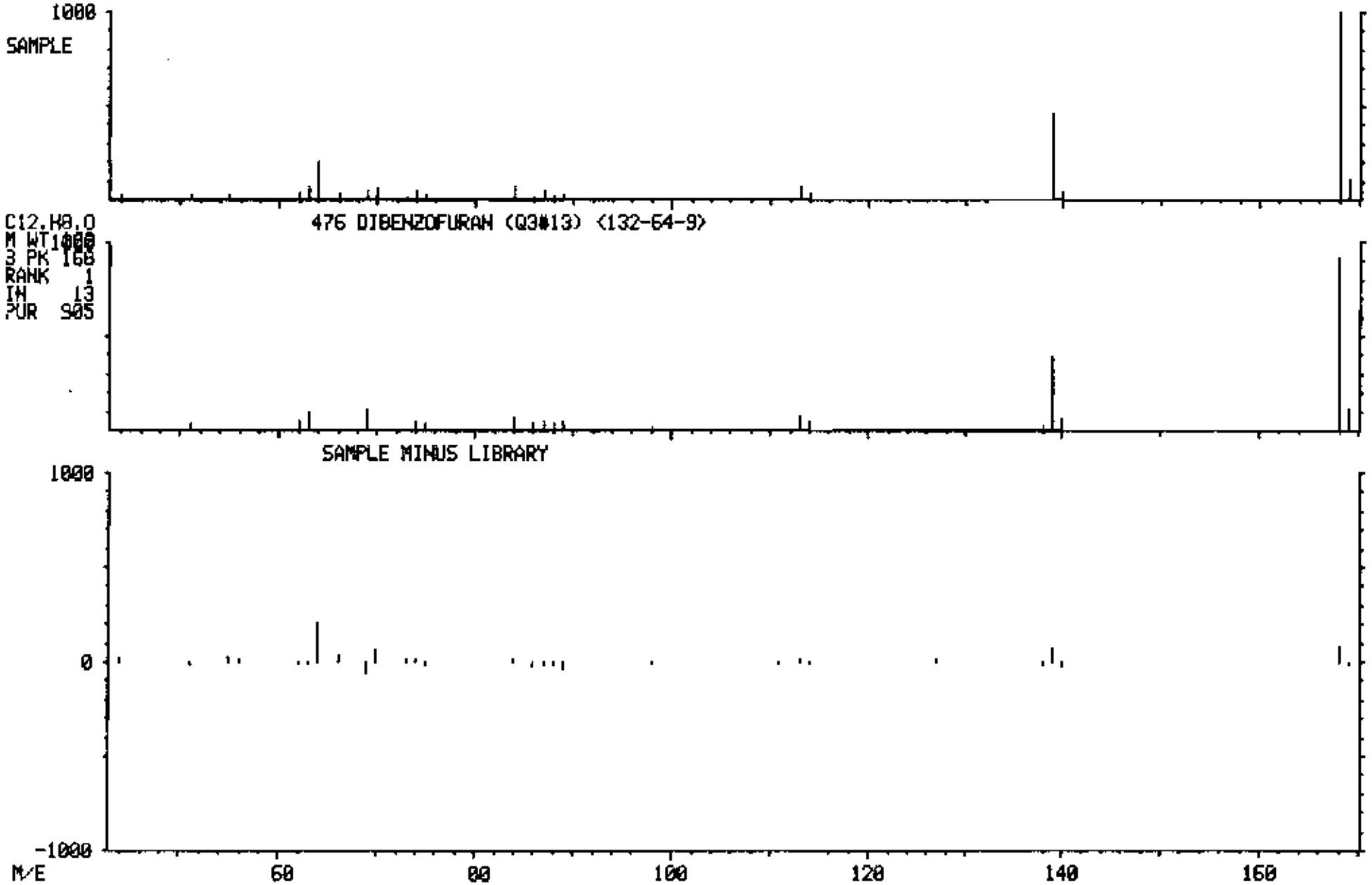


COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:49:00 + 11:36
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000815 # 770
ENHANCED (10B 2K 0T)

BASE M/E: 168
RIC: 17919.

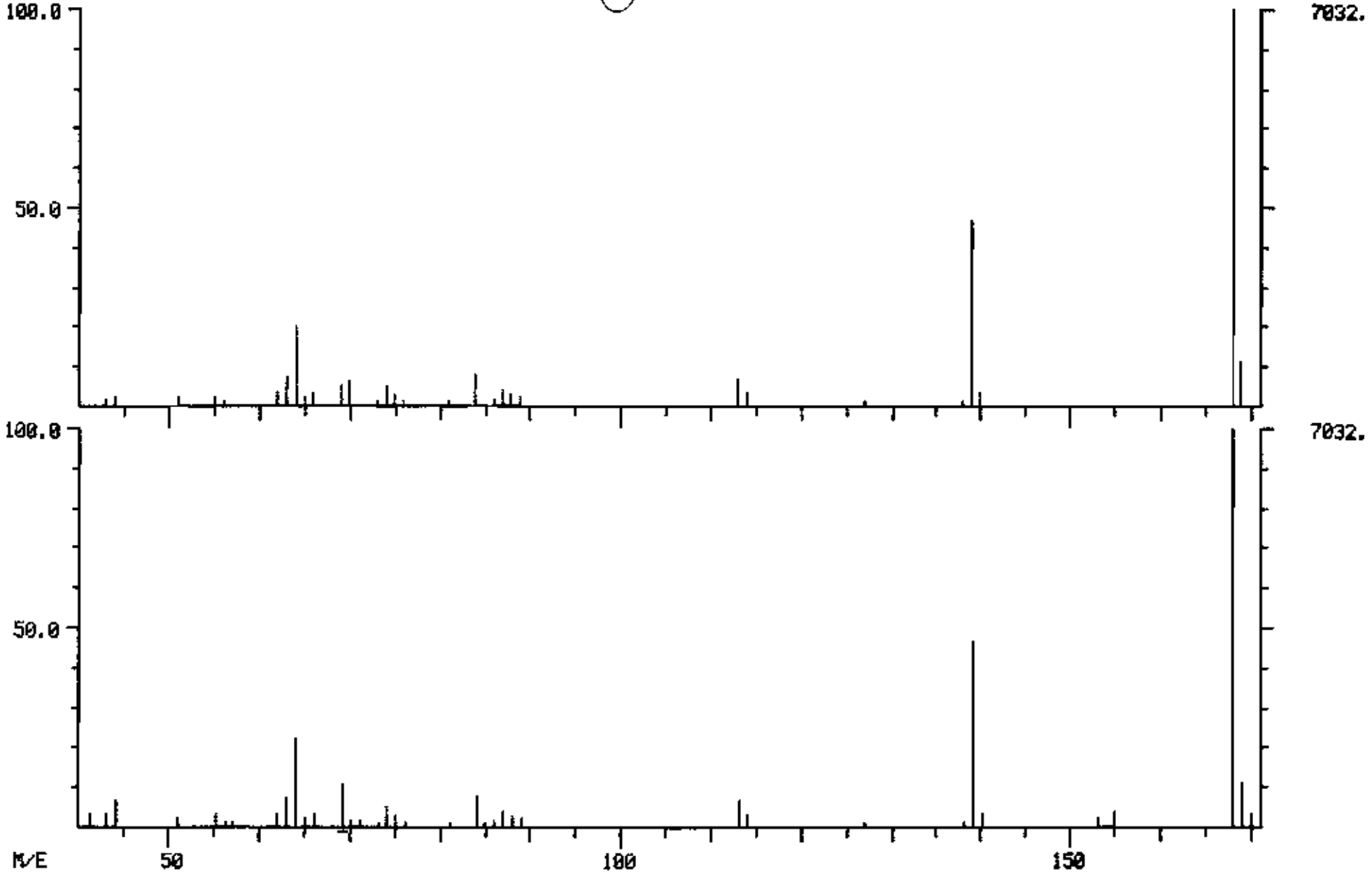


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/86 22:49:00 + 11:36
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000815 #770 BASE M/E: 160/ 168
RIC: 10335./ 20255.

SECOND SPECTRUM DATA: GH085000815 #770 476 DIBENZOFURAN (Q3#13) (132-64-9)

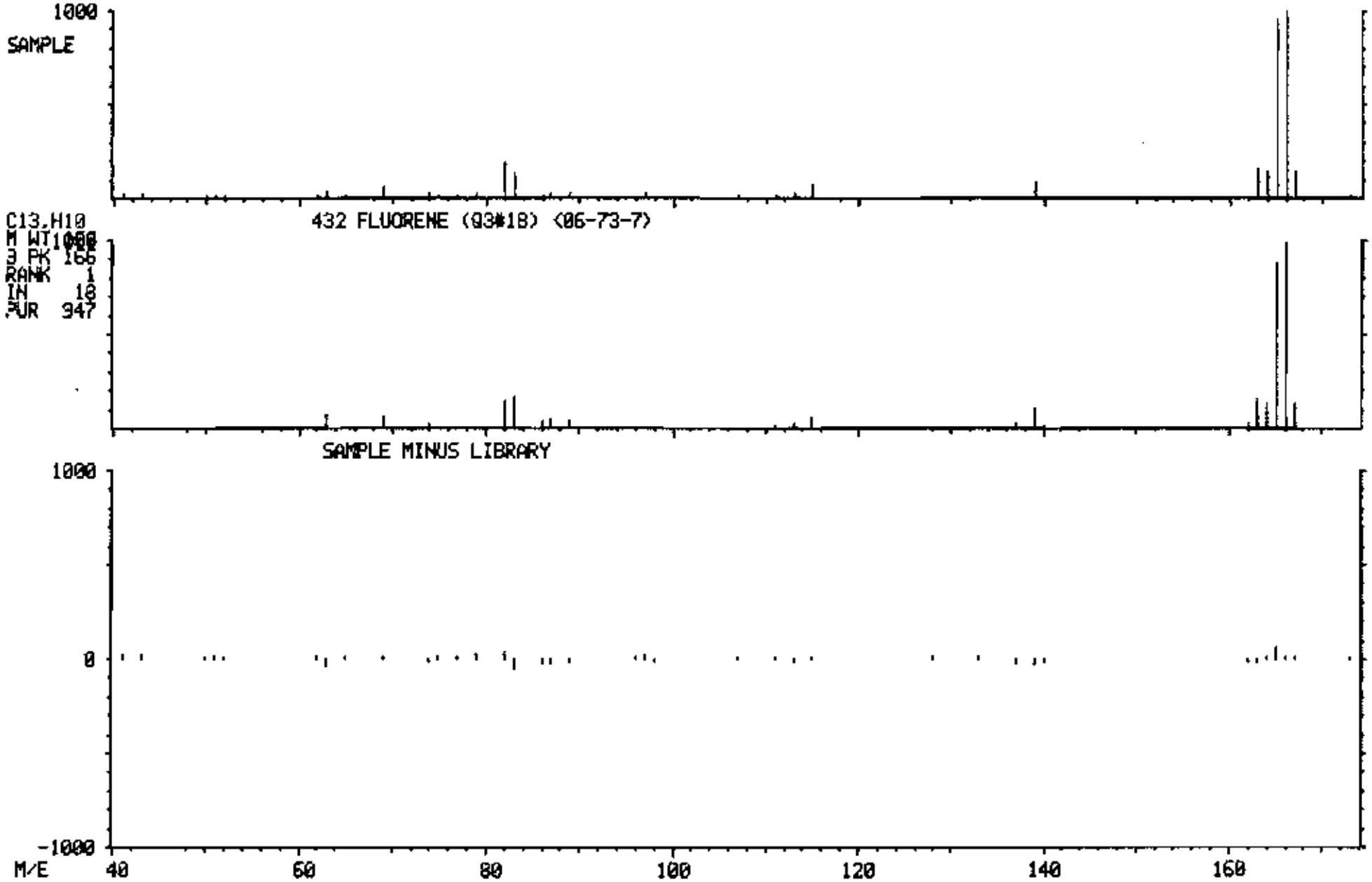


COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:49:00 + 12:05
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000B15 # 802
ENHANCED (10B 2N 0T)

BASE M/E: 166
RIC: 27263.

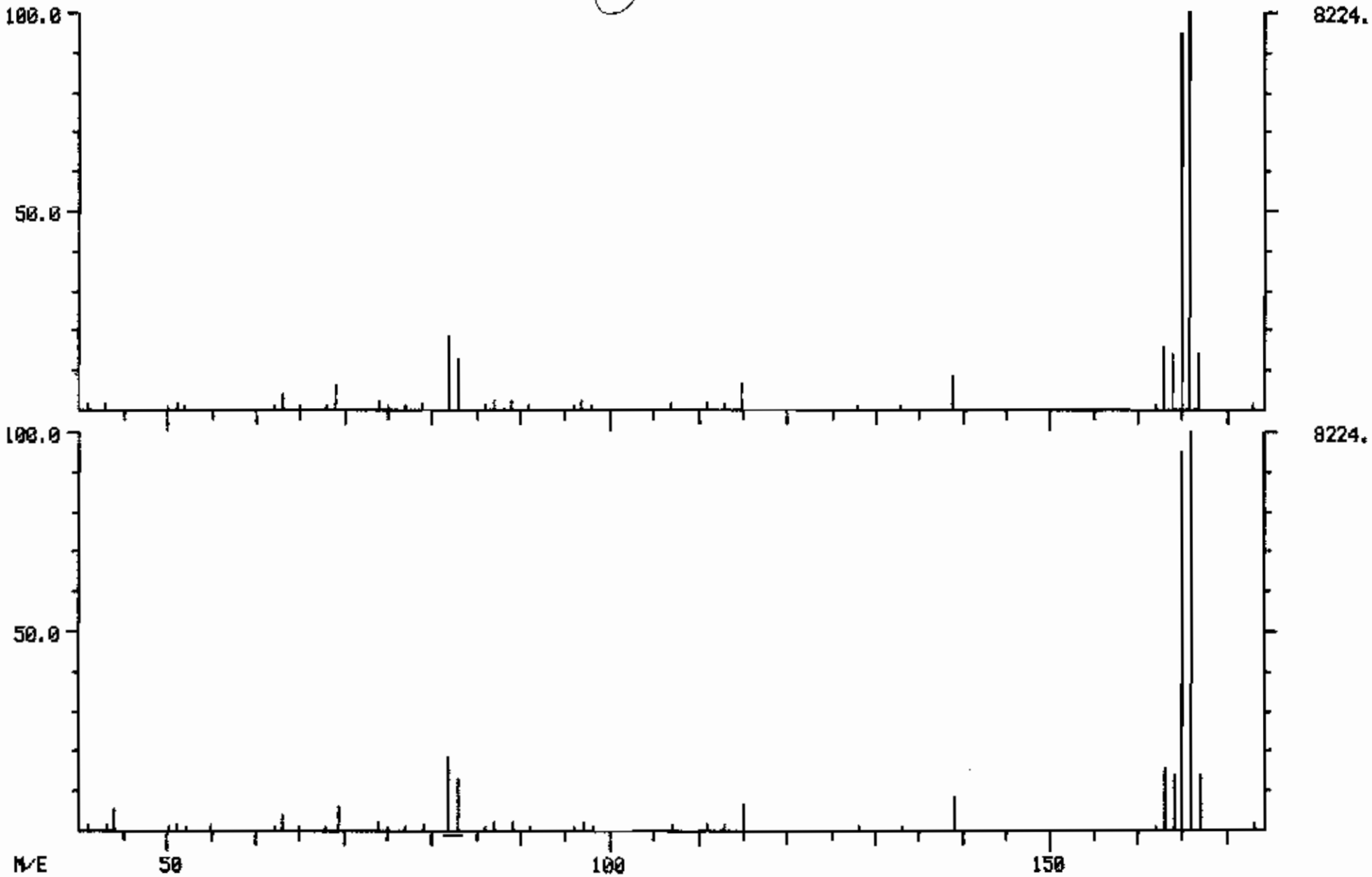


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/86 22:49:00 + 12:05
SAMPLE: 1 UL CC#65000 (5-13-86) CS#URS WEST EPA#0-SEDIMENT

DATA: GH085000B15 #802 BASE M/E: 166/ 166
RIC: 27423./ 27999.

SECOND SPECTRUM DATA: GH085000B15 #802 432/FLUORENE (Q3#10) (86-73-7)

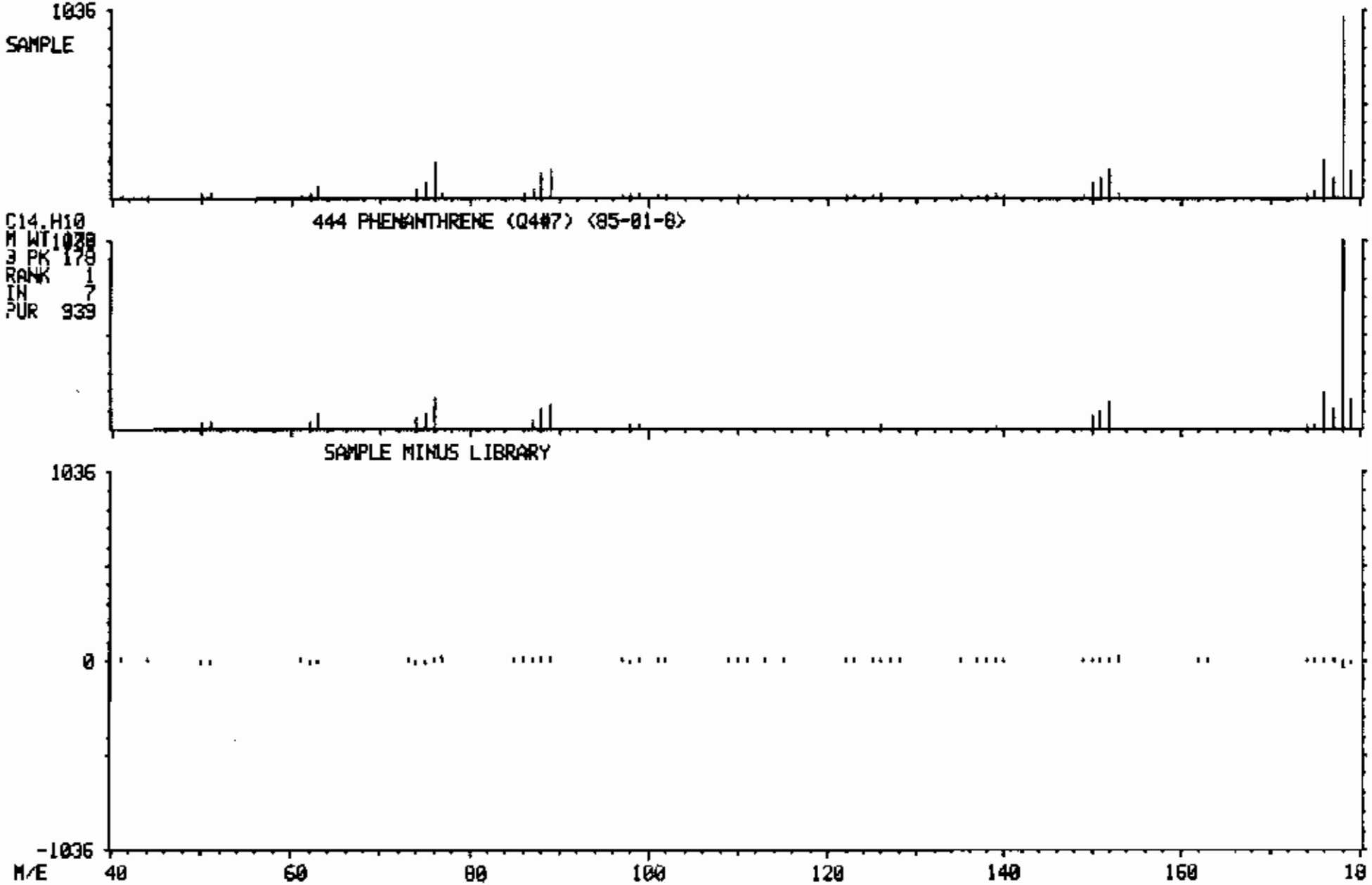


COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:49:00 + 13:27
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#0-SEDIMENT

DATA: GH005000B15 # 893
ENHANCED (10B 2N BT)

BASE M/E: 178
RIC: 361983.

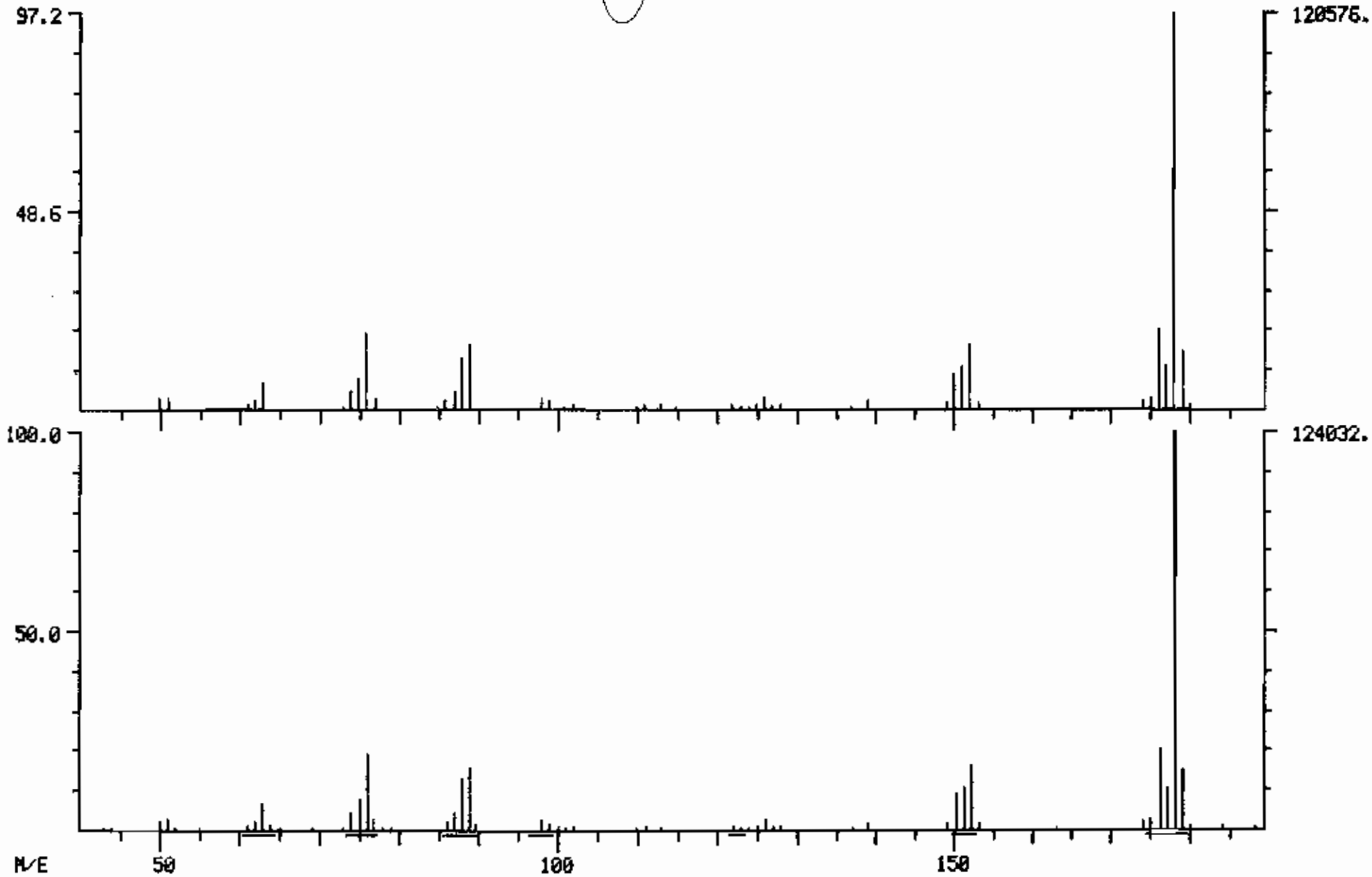


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/86 22:49:00 + 13:27
SAMPLE: 1 UL CC#85008 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000815 #893 BASE M/E: 178/ 178
RIC: 365055./ 385535.

SECOND SPECTRUM DATA: GH085000815 #893 (444) PHENANTHRENE (Q#7) (85-01-8)

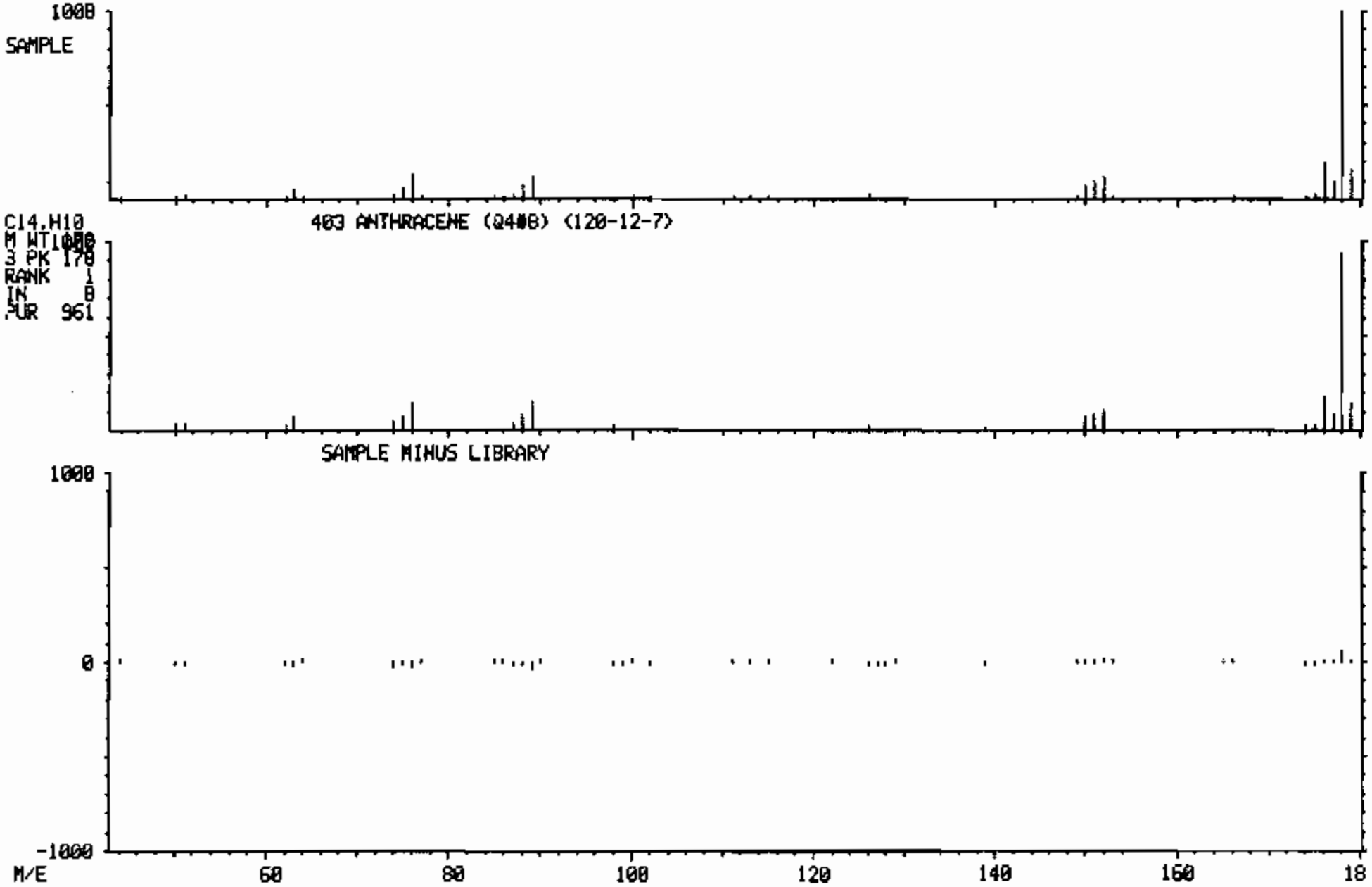


COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:49:00 + 13:31
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000B15 # 897
ENHANCED (100 2N 0T)

BASE M/E: 178
RIC: 55935.

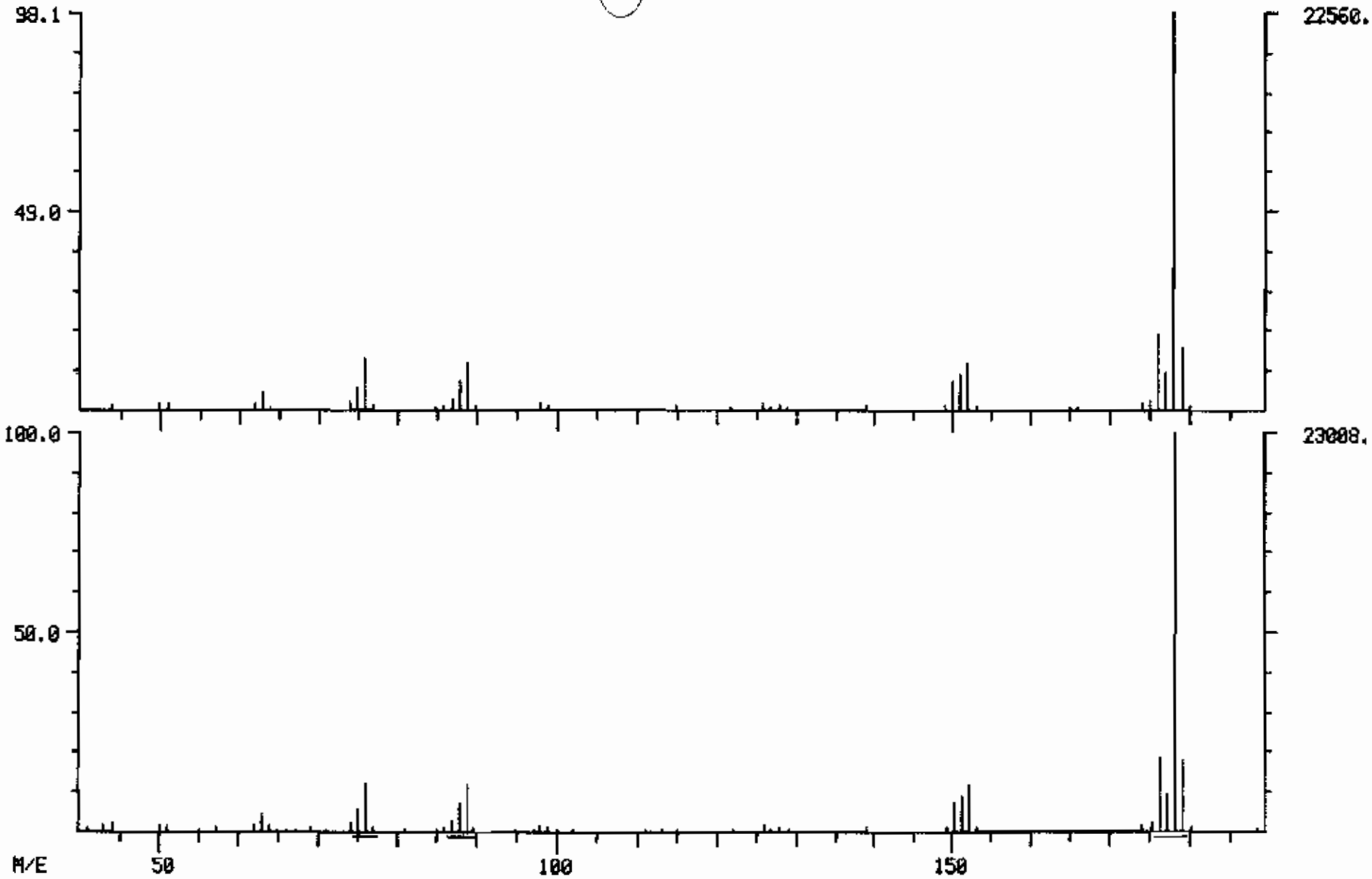


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/86 22:49:00 + 13:31
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000B15 #897 BASE M/E: 178/ 178
RIC: 56127./ 60895.

SECOND SPECTRUM DATA: GH085000B15 #897 403 ANTHRACENE (Q4#8) <120-12-7>

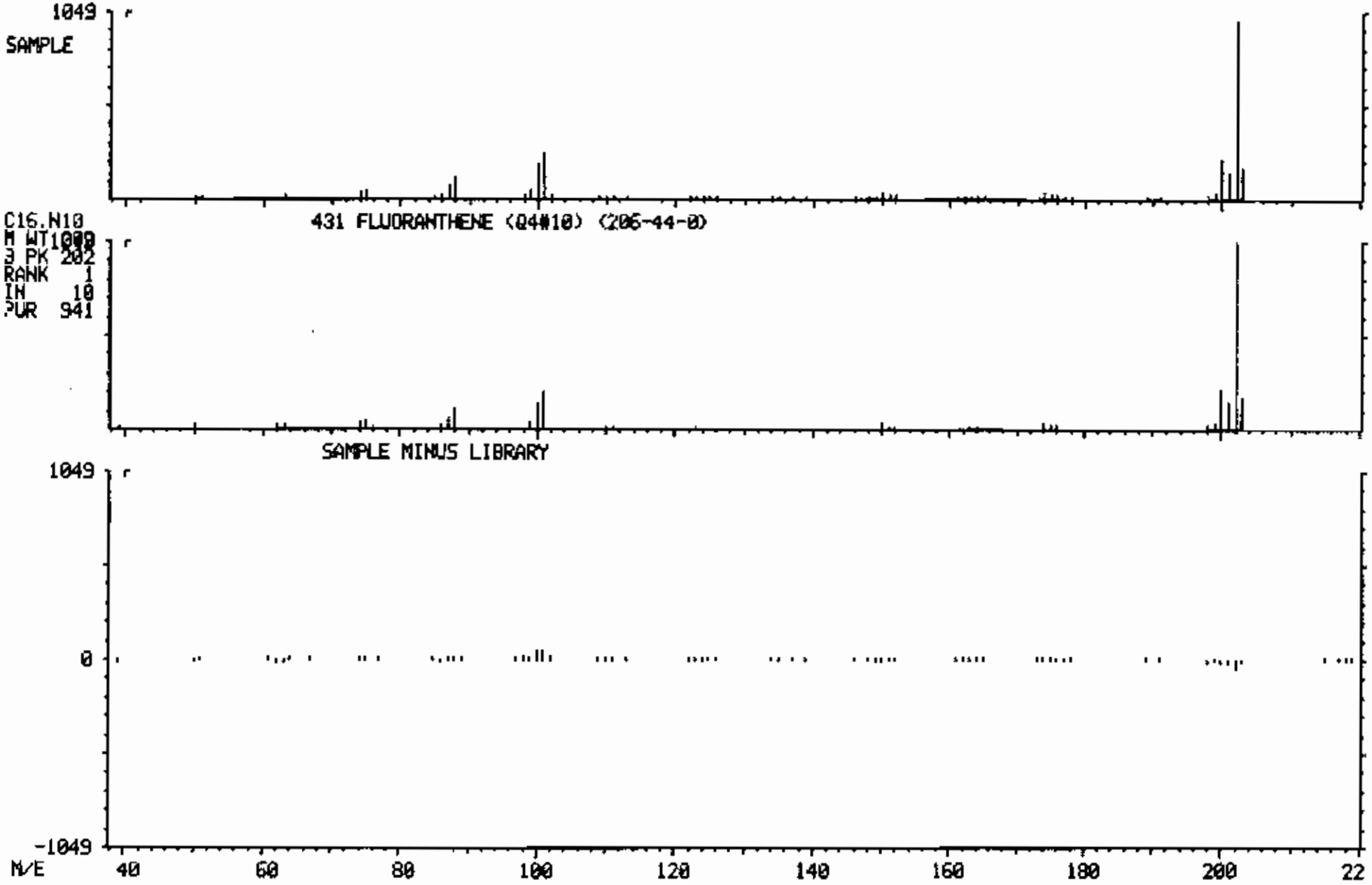


COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:49:00 + 15:09
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000B15 #1006
ENHANCED (10B 2N 0T)

BASE M/E: 202
RIC: 329215.

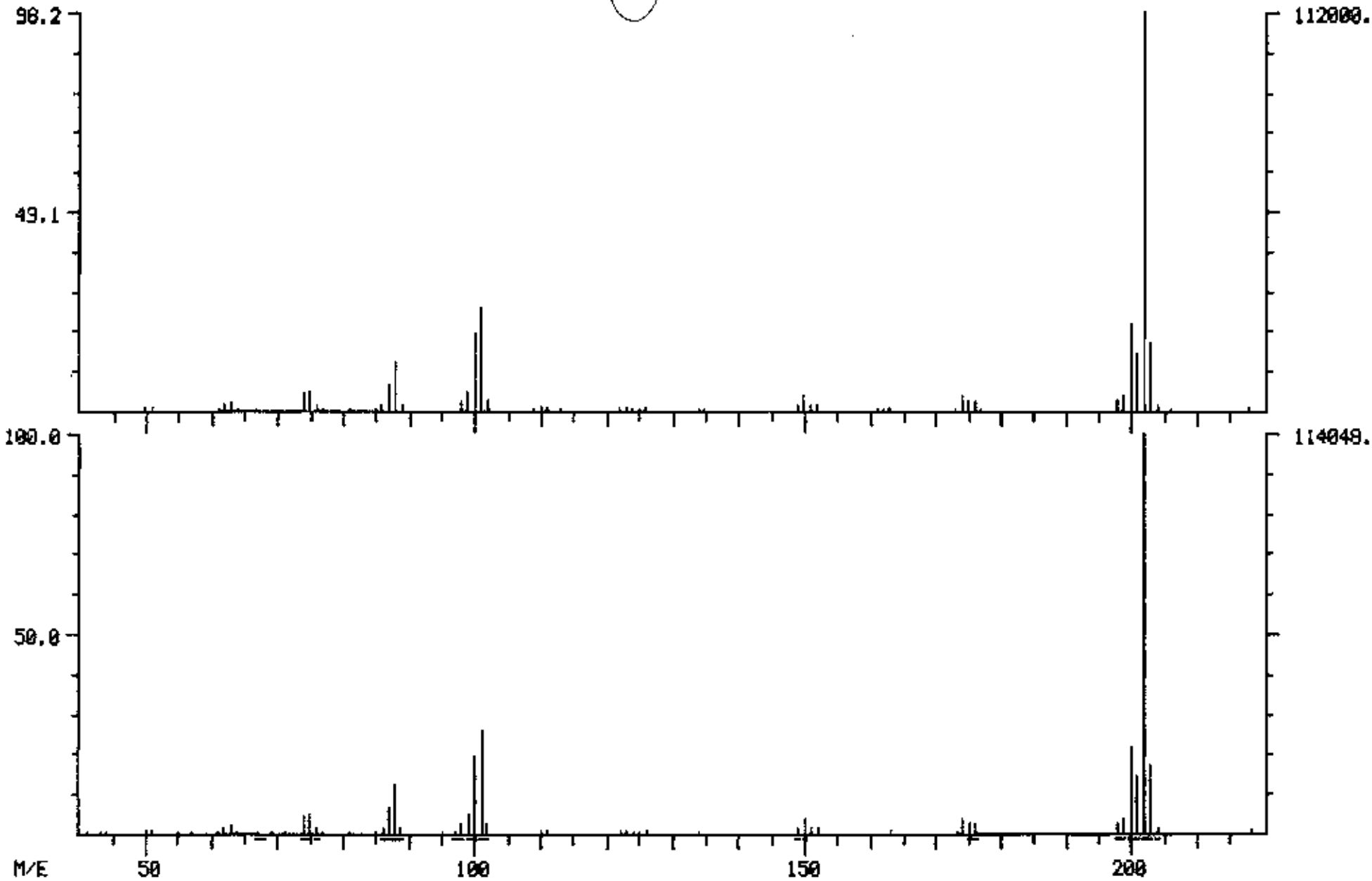


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/86 22:49:00 + 15:09
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000B15 #1006 BASE M/E: 202/ 202
RIC: 336895./ 344063.

SECOND SPECTRUM DATA: GH085000B15 #1006 431 FLUORANTHENE (Q4#10) (206-44-0)

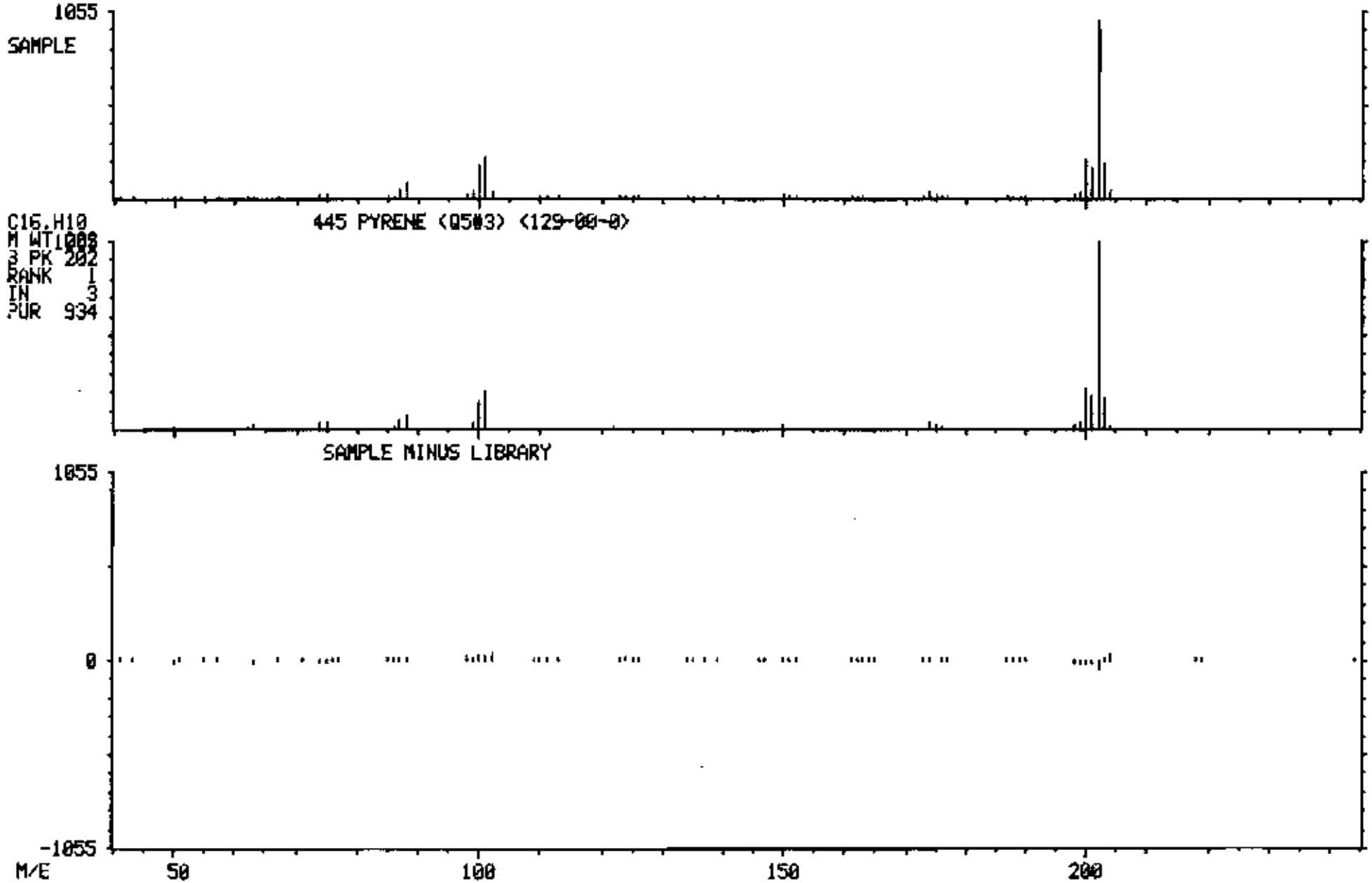


COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:49:00 + 15:26
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000B15 #1027
ENHANCED (10B 2N 0T)

BASE M/E: 202
RIC: 274431.

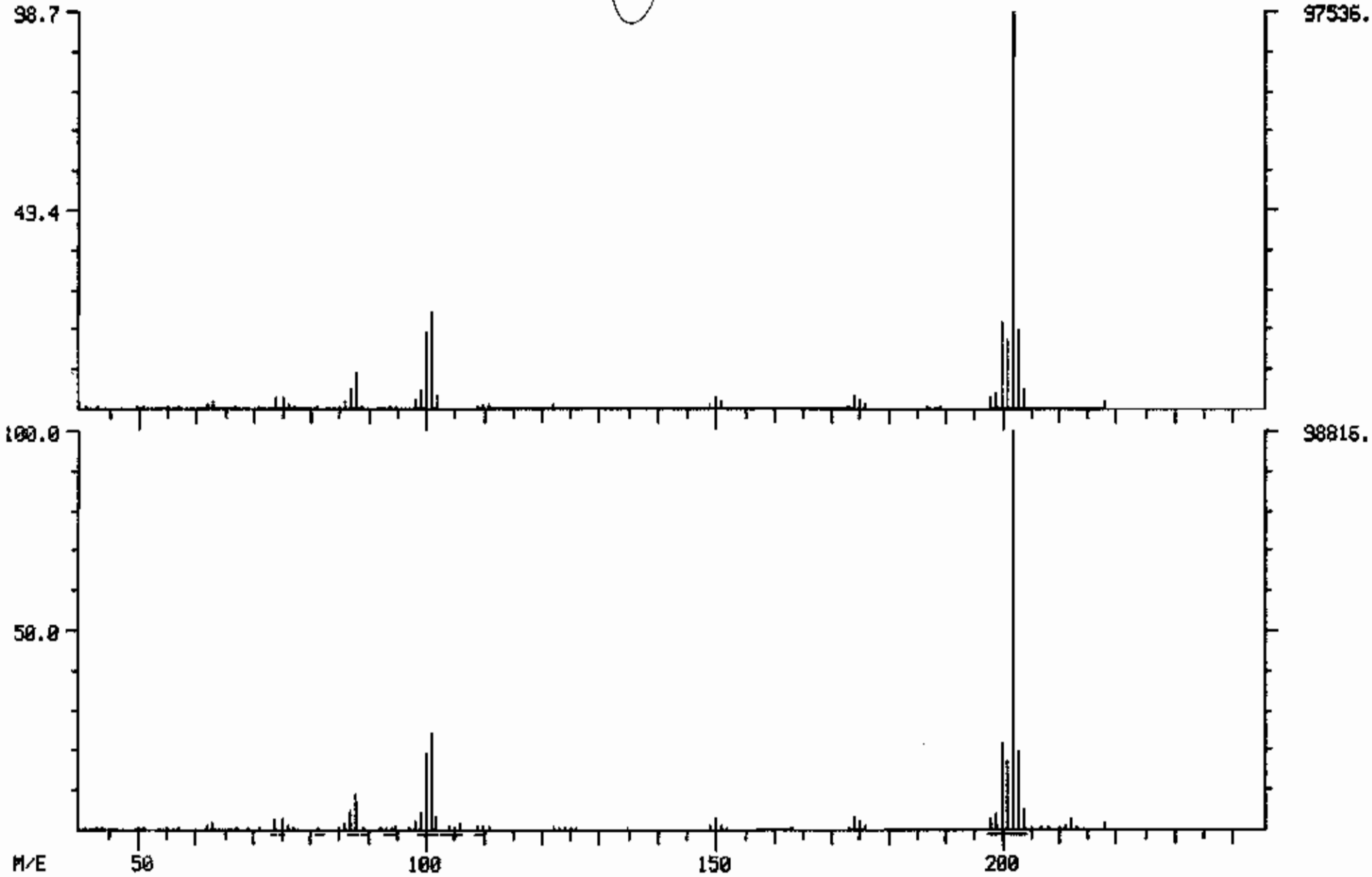


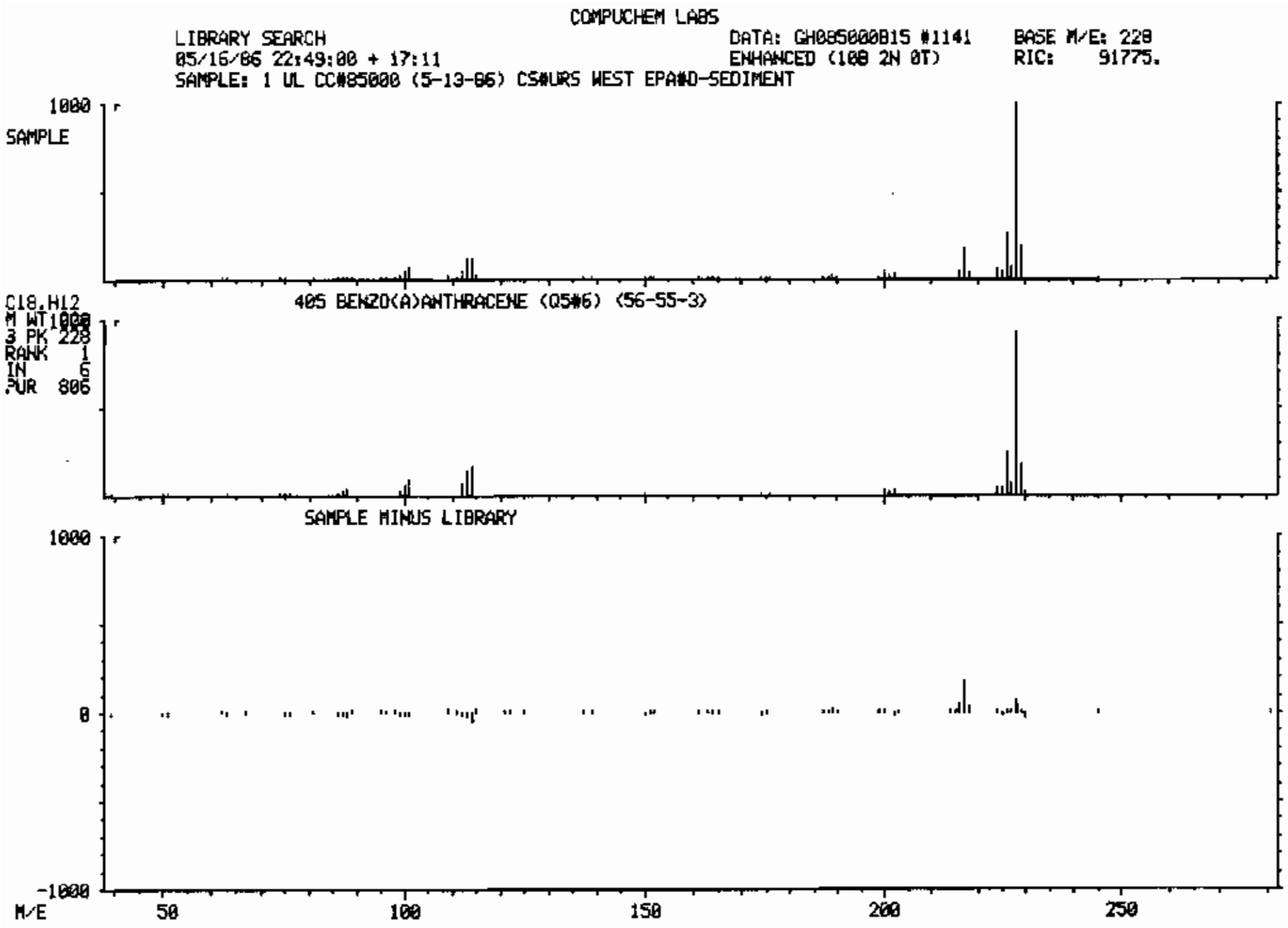
COMPUCHEM LABS

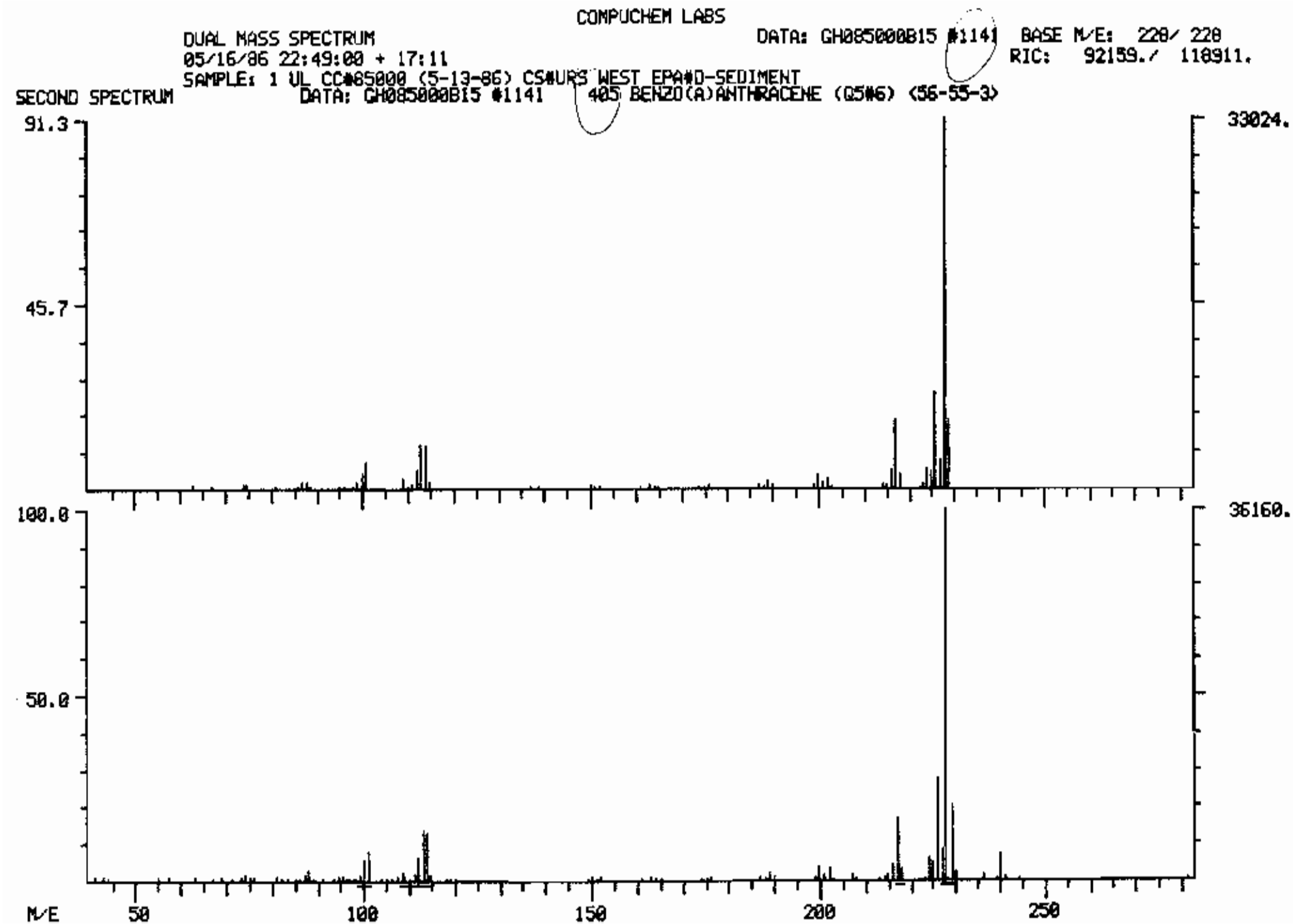
DUAL MASS SPECTRUM
05/16/86 22:49:00 + 15:28
SAMPLE: 1 UL CC#05000 (5-13-86) CS#URS-WEST EPA#D-SEDIMENT

DATA: GH085000B15 #1027 BASE M/E: 202/ 202
RIC: 279551./ 297471.

SECOND SPECTRUM DATA: GH085000B15 #1027 (445) PYRENE (Q5#3) (129-00-0)




COMPUCHEM LABS
LIBRARY SEARCH
05/16/86 22:49:00 + 17:11
DATA: GH085000B15 #1141
ENHANCED (100 2N 0T)
BASE M/E: 228
RIC: 91775.
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT
1000
SAMPLE
C18.H12
M WT 228
3 PK 228
RANK 1
IN 6
PUR 806
405 BENZO(A)ANTHRACENE (Q5#6) (56-55-3)
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
50
100
150
200
250

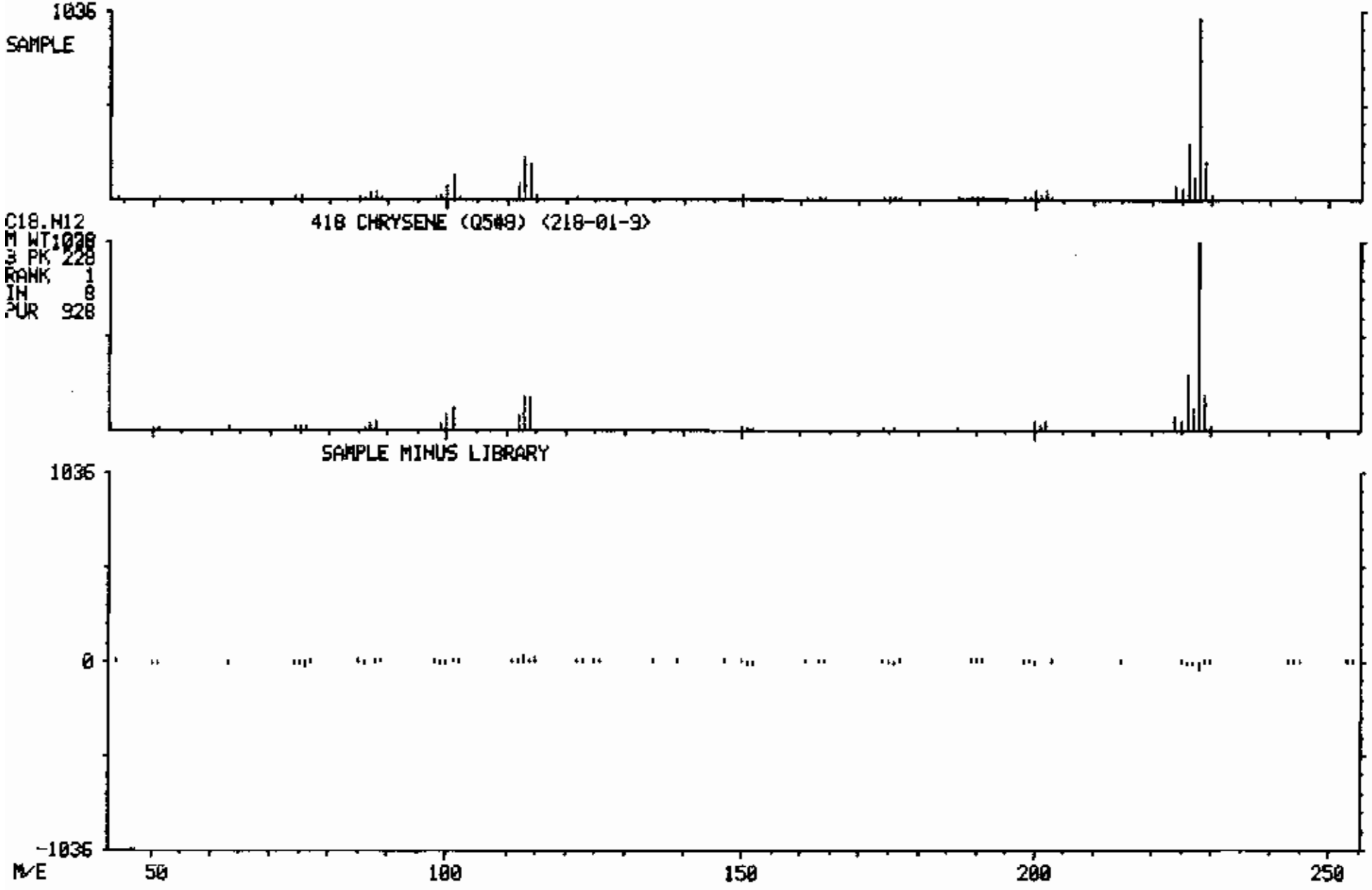

COMPUCHEM LABS
DUAL MASS SPECTRUM
05/16/86 22:49:00 + 17:11
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT
DATA: GH085000B15 #1141
BASE M/E: 228/ 228
RIC: 92159./ 118911.
SECOND SPECTRUM
DATA: GH085000B15 #1141 405 BENZO(A)ANTHRACENE (Q5#6) (56-55-3)
91.3
45.7
33024.
100.0
50.0
36160.
M/E
50
100
150
200
250

COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:49:00 + 17:16
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000B15 #1146
ENHANCED (10B 2N 0T)

BASE M/E: 228
RIC: 87039.

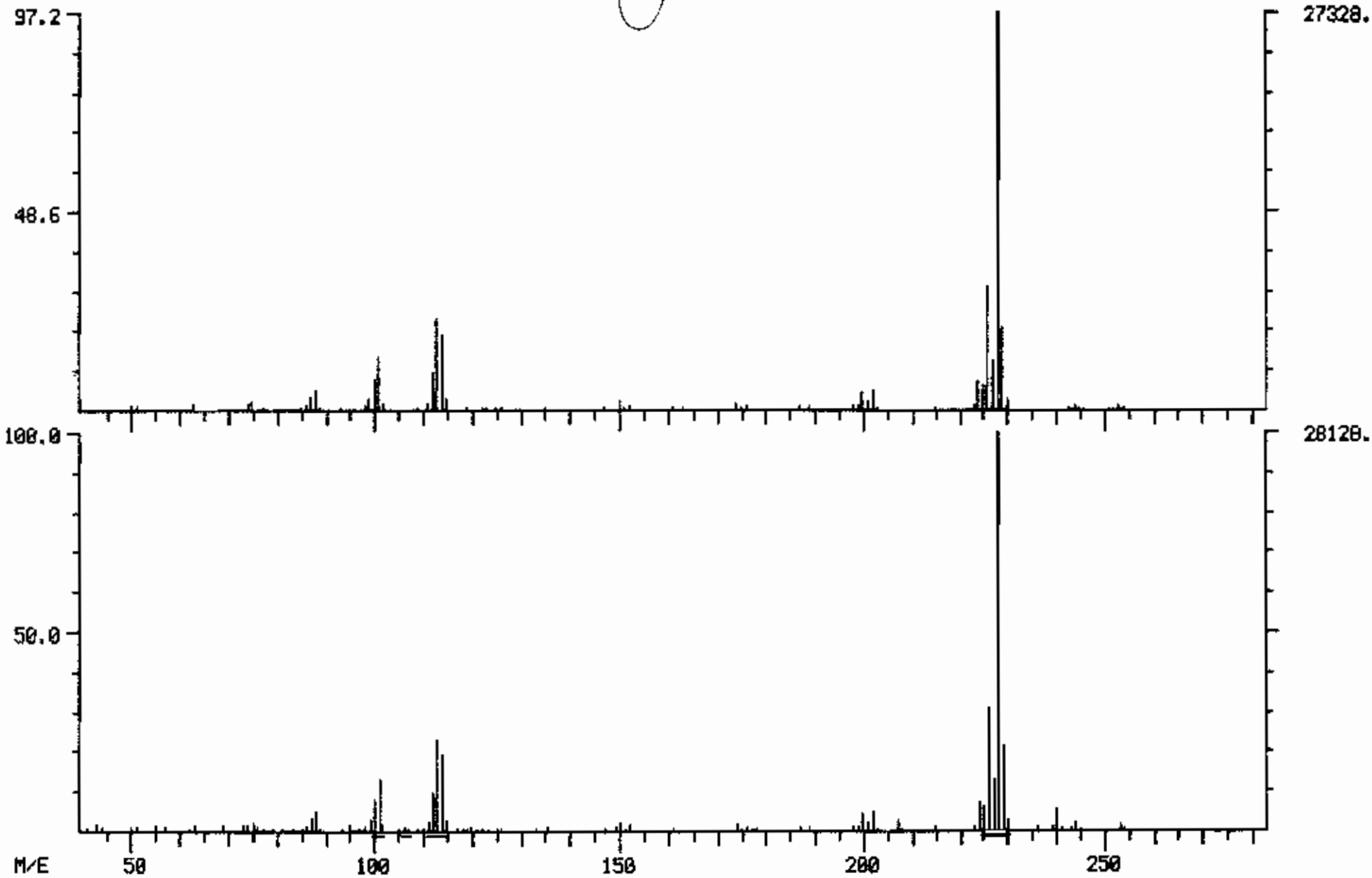


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/86 22:49:00 + 17:16
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000015 #1146 BASE M/E: 228/ 228
RIC: 07679./ 100735.

SECOND SPECTRUM
DATA: GH085000B15 #1146 418 CHRYSENE (Q5#8) <218-01-9>

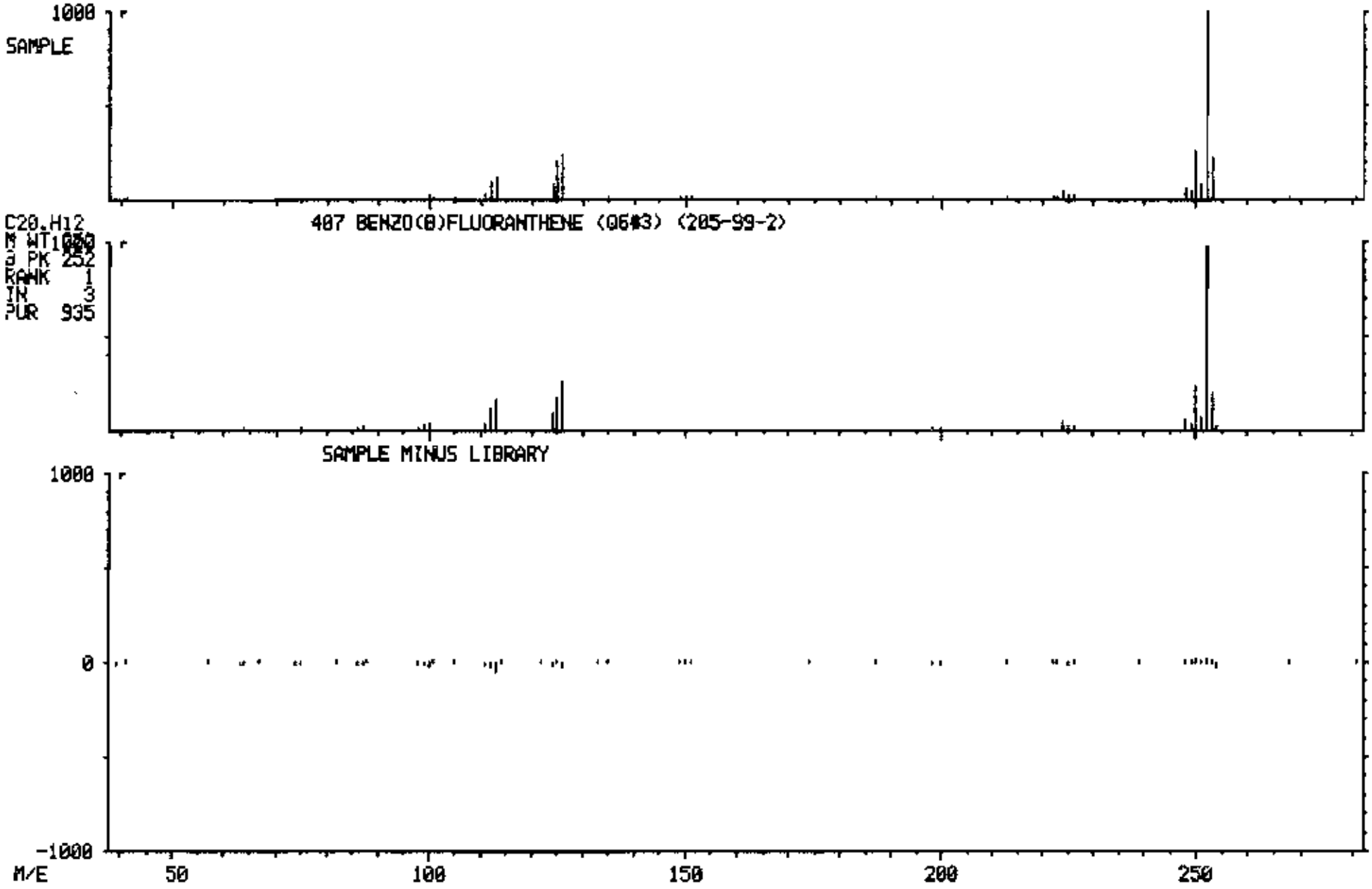


COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:49:00 + 19:24
SAMPLE: 1 UL CC#85000 (5-13-06) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000B15 #1208
ENHANCED (100 2H 0T)

BASE M/E: 252
RIC: 56383.

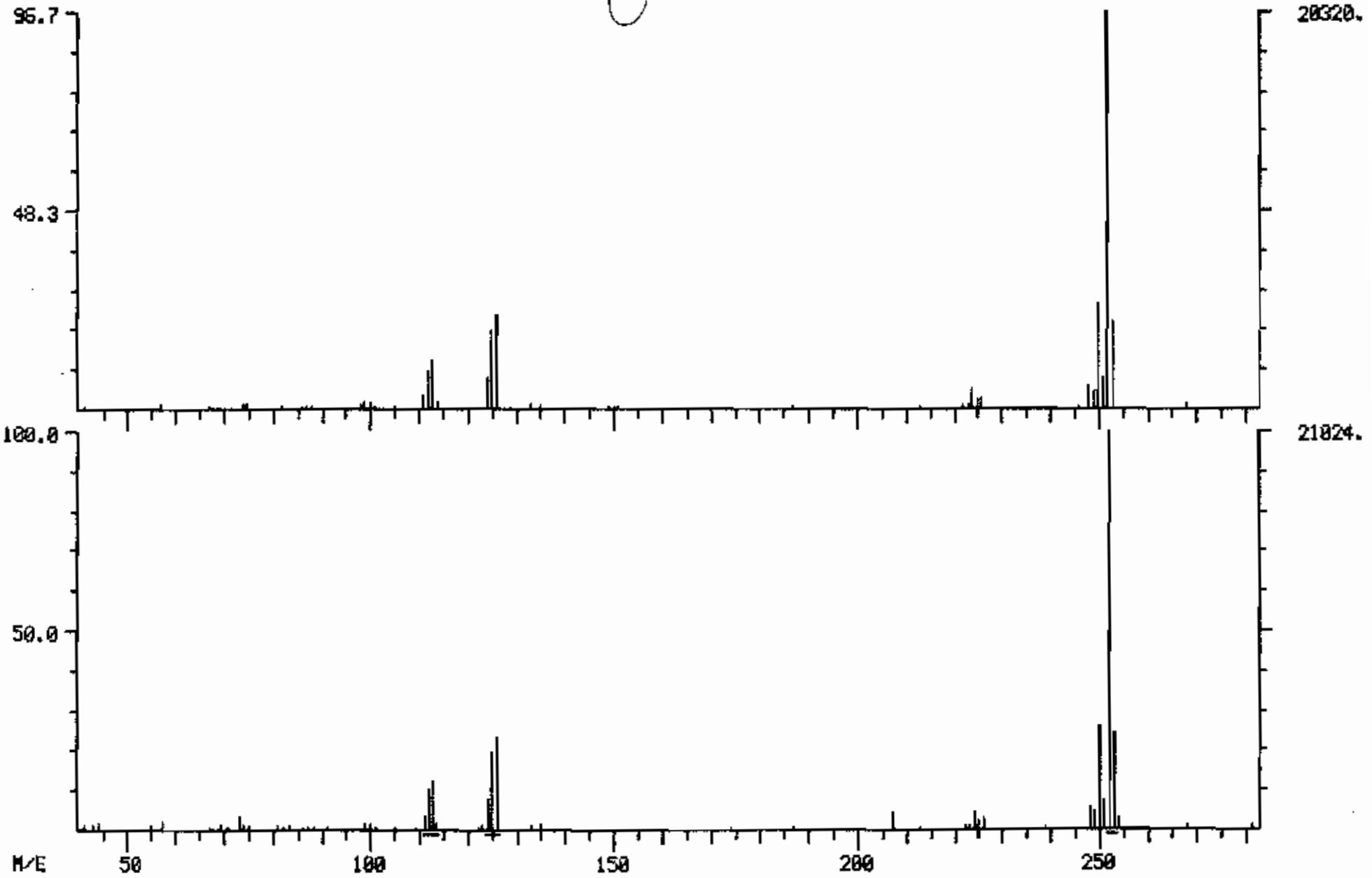


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/86 22:49:00 + 19:24
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000815 #1288 BASE M/E: 252/ 252
RIC: 56447./ 63307.

SECOND SPECTRUM DATA: GH085000815 #1288 407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>

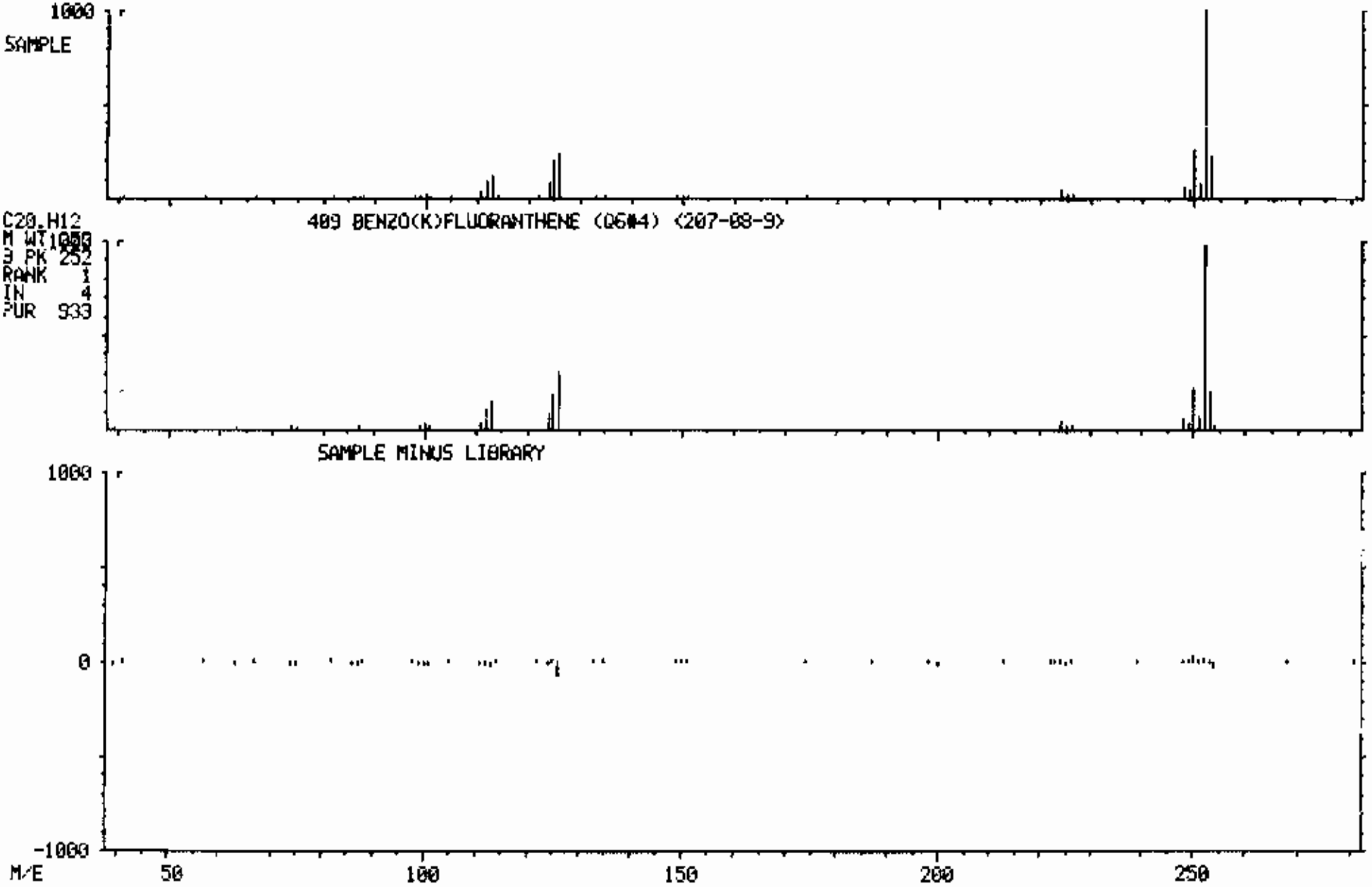


COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:49:00 + 19:24
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH0B5000B15 #1288
ENHANCED (10B 2N 0T)

BASE M/E: 252
RIC: 56383.

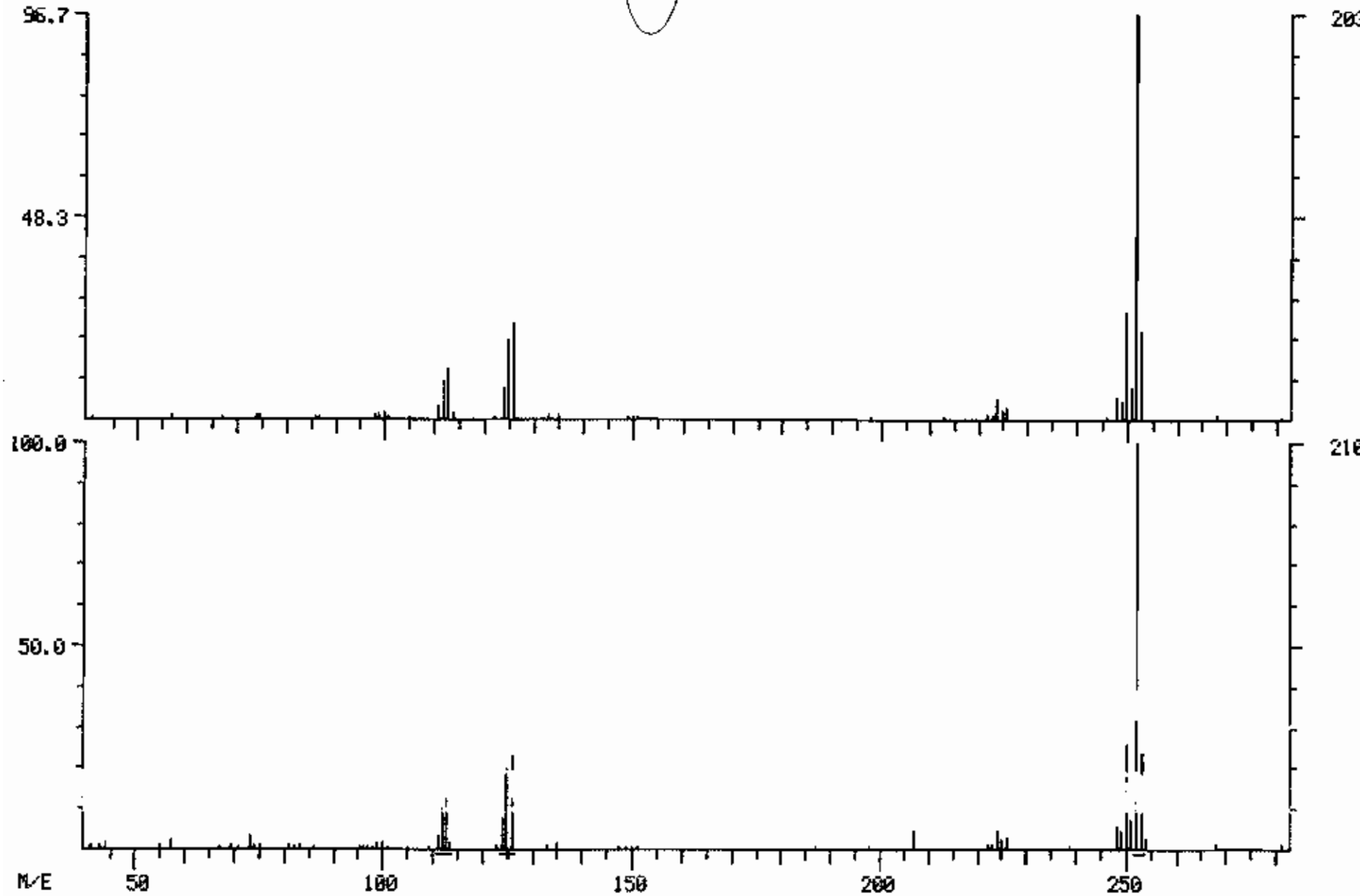


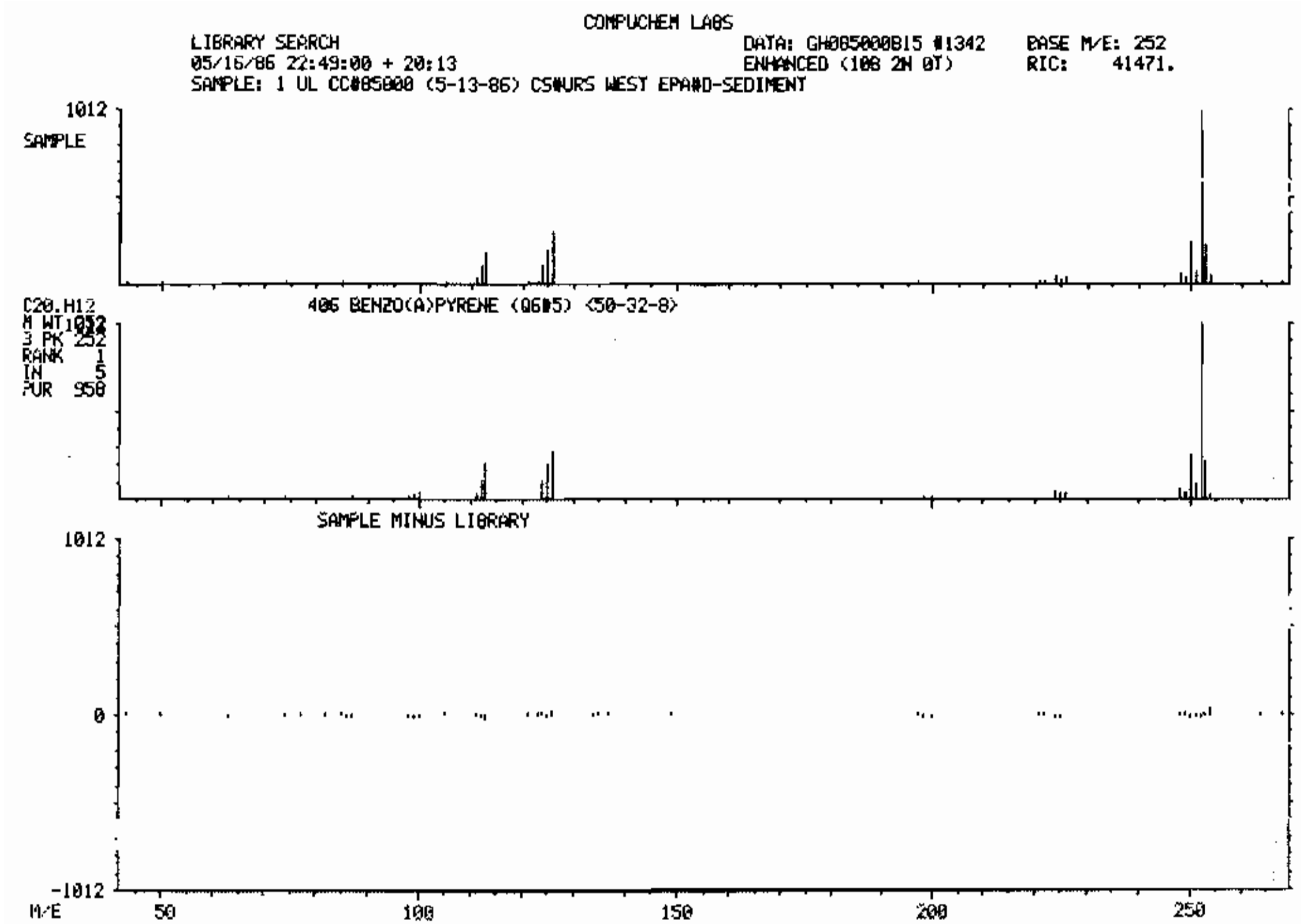
COMPUCHEM LABS

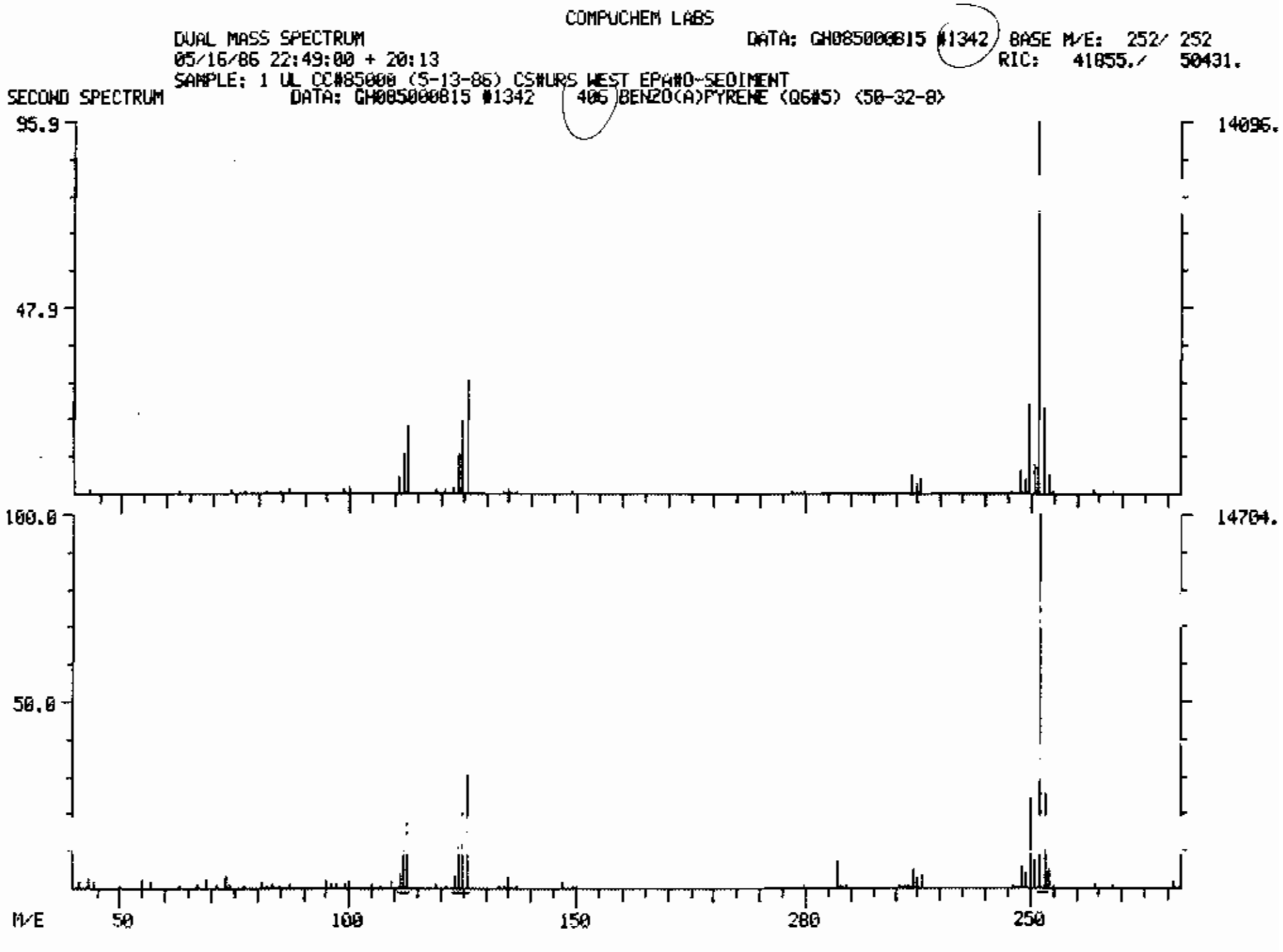
DUAL MASS SPECTRUM
05/16/86 22:49:00 + 19:24
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000815 #1288 BASE M/E: 252/ 252
RIC: 56447./ 63807.

SECOND SPECTRUM DATA: GH085000815 #1288 409 BENZO(K)FLUORANTHENE (86#4) (207-08-9)




COMPUCHEM LABS
LIBRARY SEARCH
05/16/86 22:49:00 + 20:13
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT
DATA: GH085000B15 #1342
ENHANCED (100 2N 0T)
BASE M/E: 252
RIC: 41471.
1012
SAMPLE
C20.H12
406 BENZO(A)PYRENE (Q6#5) <50-32-8>
M WT 252
3 PK 252
RANK 1
IN 5
PUR 958
SAMPLE MINUS LIBRARY
1012
0
-1012
M/E
50
100
150
200
250

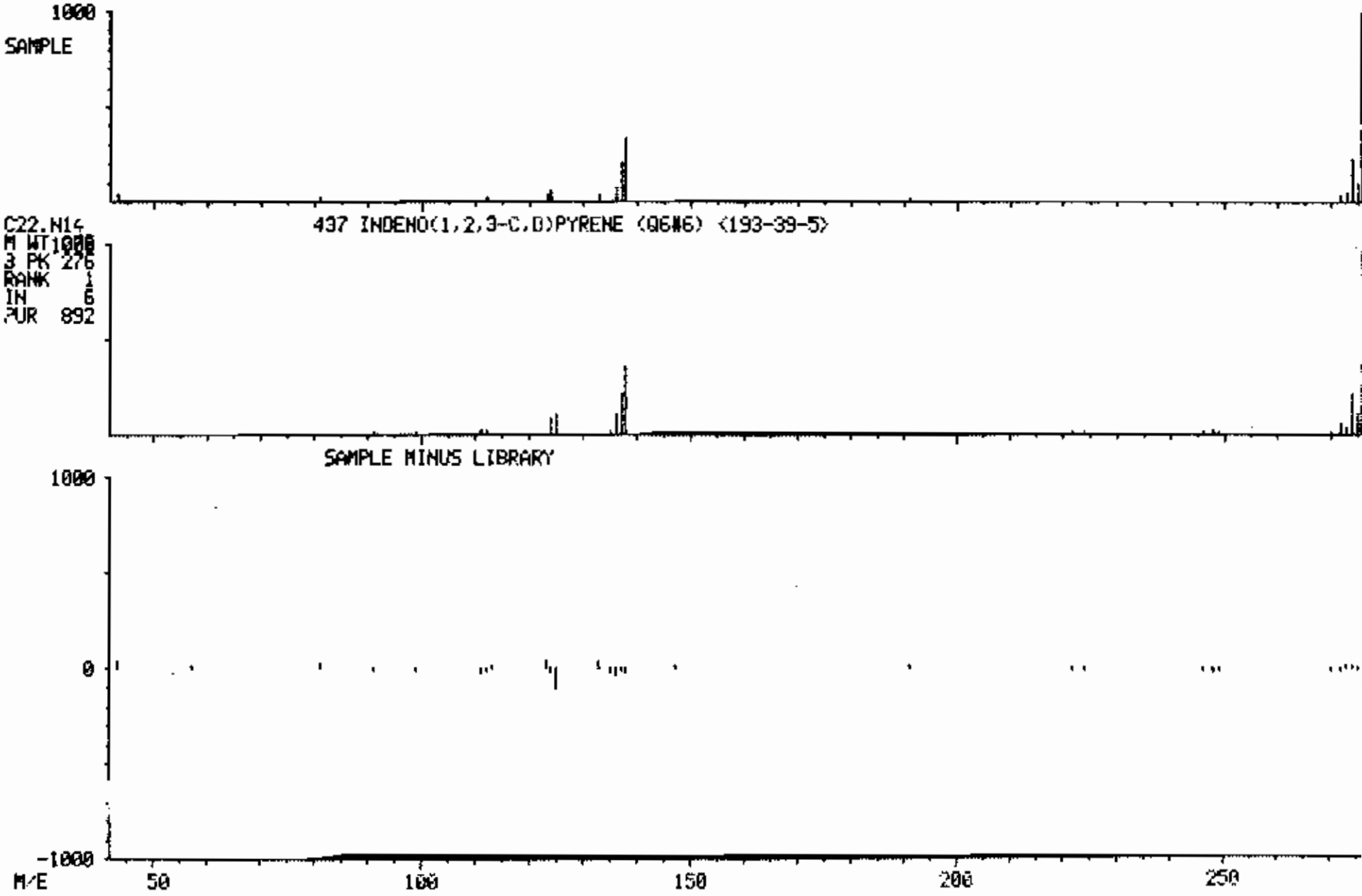

COMPUCHEM LABS
DUAL MASS SPECTRUM
DATA: GH085000815 #1342
BASE M/E: 252/ 252
05/16/86 22:49:00 + 20:13
RIC: 41855./ 50431.
SAMPLE: 1 UL CC#85000 (5-13-86) CSWURS WEST EPA#0-SEDIMENT
SECOND SPECTRUM
DATA: GH085000815 #1342
406 BENZO(A)PYRENE (Q6#5) (50-32-8)
95.9
47.9
14096.
100.0
50.0
14704.
M/E
50
100
150
200
250

COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:49:00 + 24:08
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH0850008I5 #1602
ENHANCED (100 2N 0T)

BASE M/E: 276
RIC: 11455.

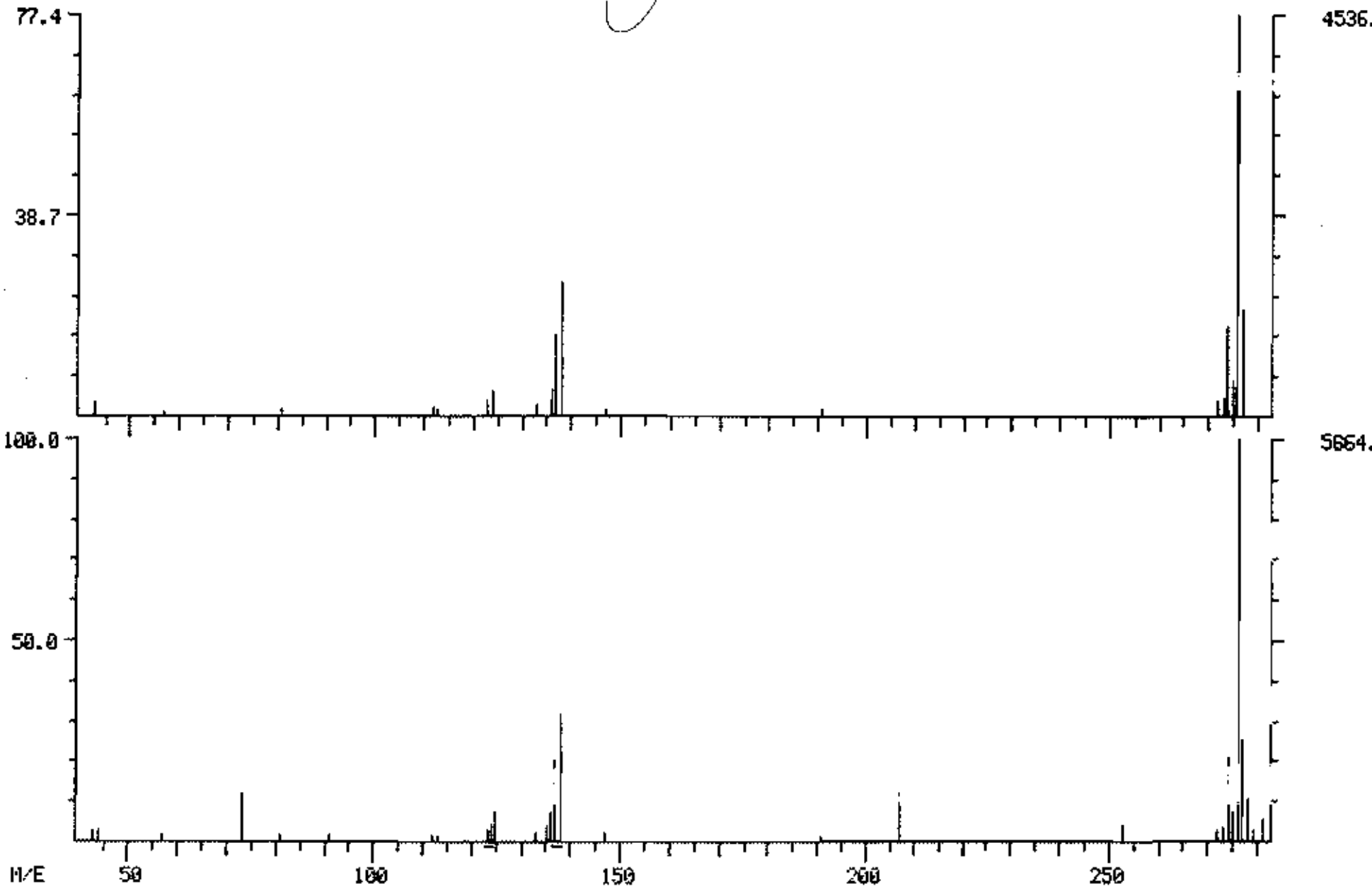


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/16/86 22:49:00 + 24:08
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000815 #1602 BASE M/E: 276/ 276
RIC: 11455./ 18175.

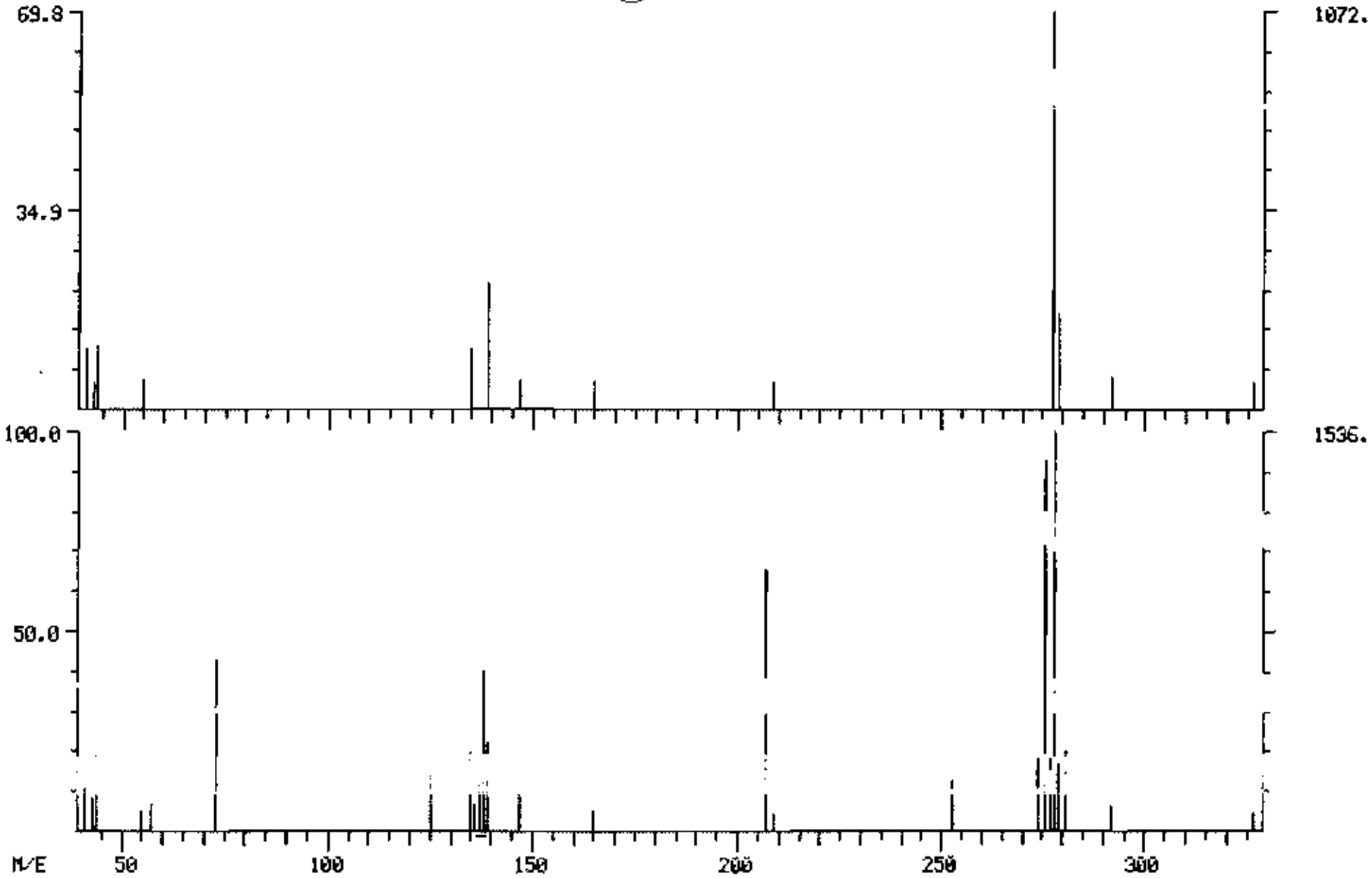
SECOND SPECTRUM DATA: GH085000B15 #1682 437/INDENO(1,2,3-C,D)PYRENE (Q6#6) (193-39-5)



COMPUCHEM LABS

DUAL MASS SPECTRUM — DATA: GH085000B15 #1606 — BASE M/E: 278/ 278
05/16/86 22:49:00 + 24:11 — RIC: 2699./ 9855.
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

SECOND SPECTRUM — DATA: GH085000B15 #1606 — 419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>

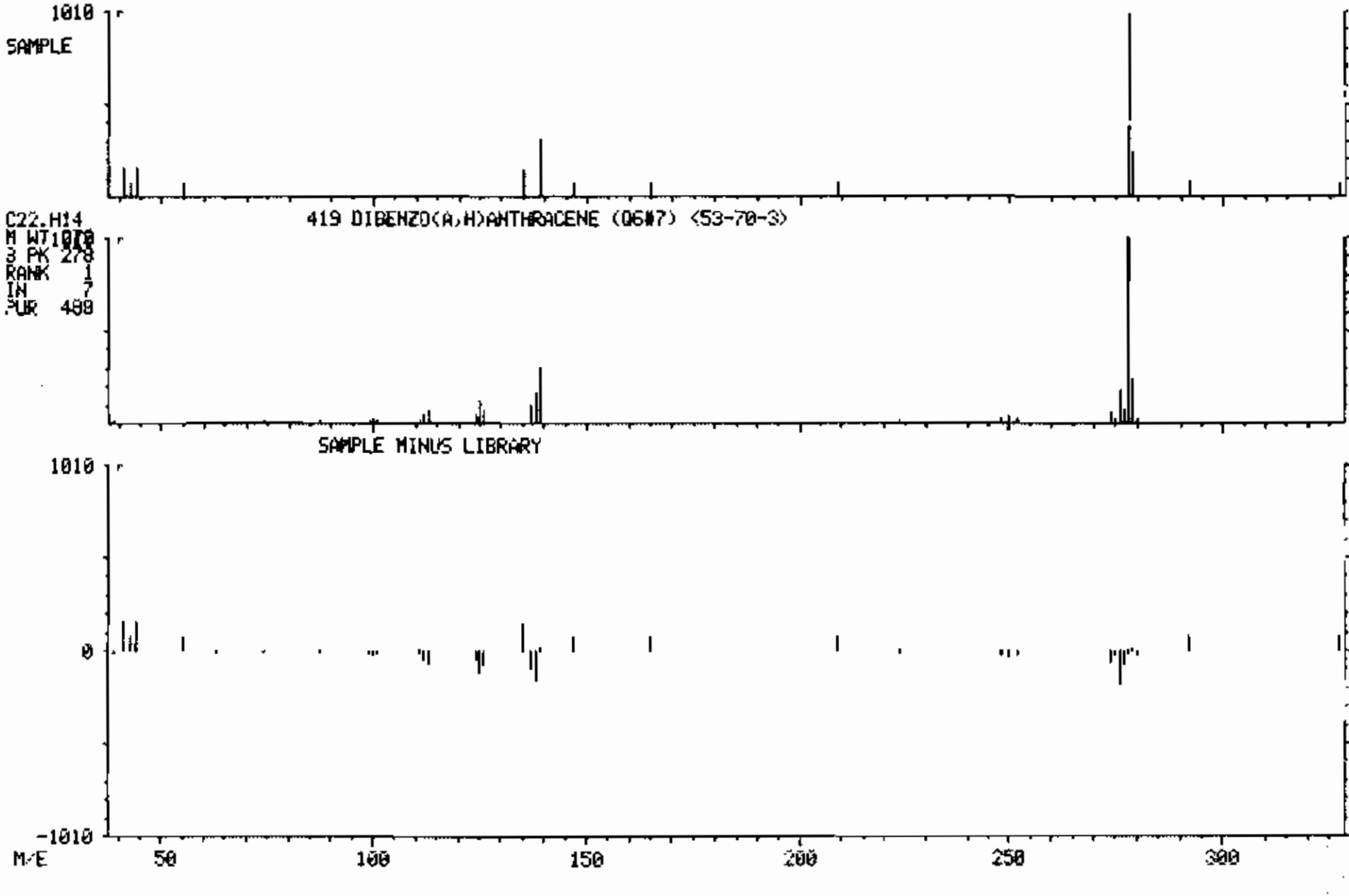


COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:49:00 + 24:11
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH085000B15 #1606
ENHANCED (10B 2N 0T)

BASE M/E: 278
RIC: 2699.

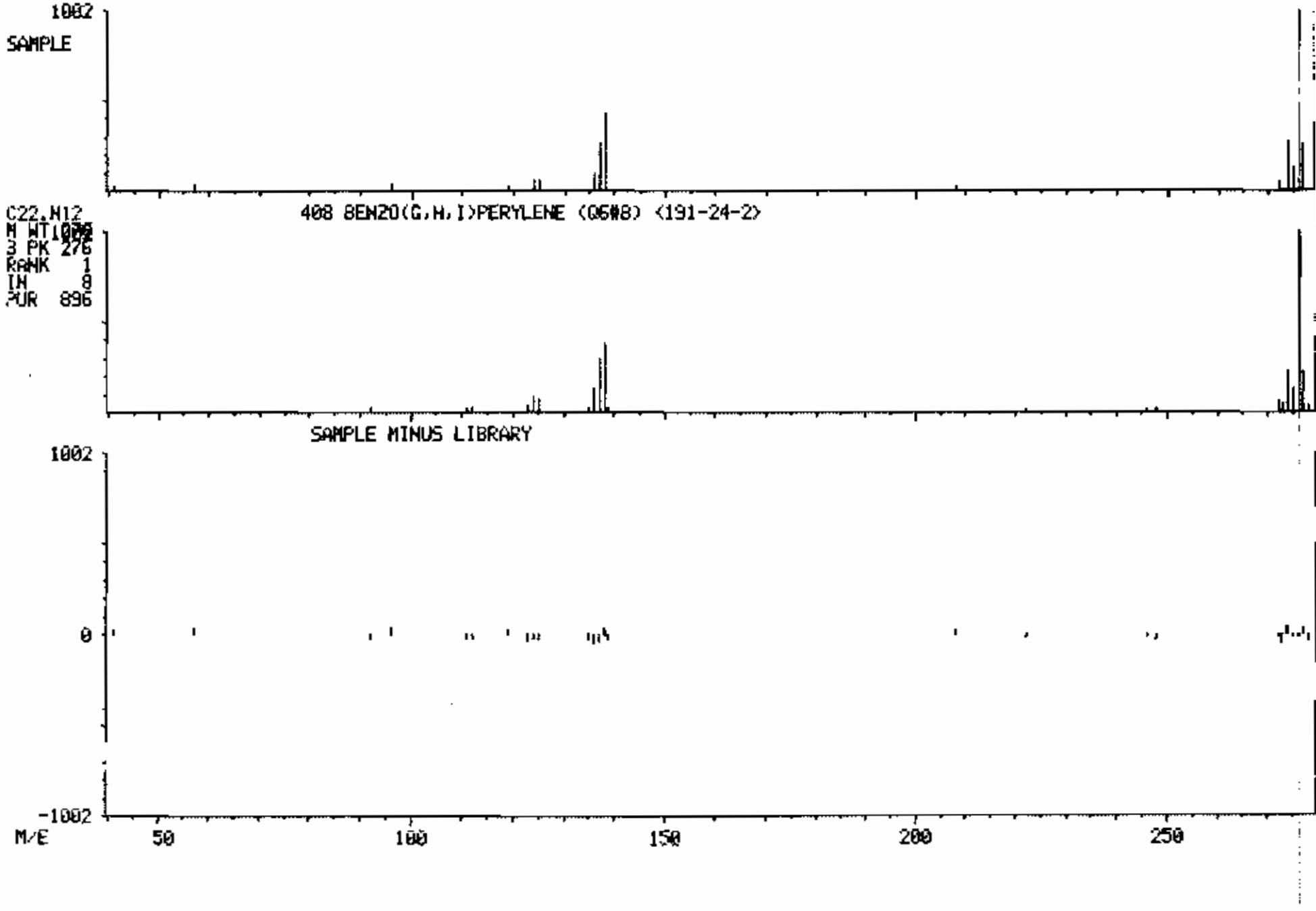


COMPUCHEM LABS

LIBRARY SEARCH
05/16/86 22:49:00 + 25:15
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

DATA: GH095000815 #1677
ENHANCED (10B 2H 0T)

BASE M/E: 276
RIC: 8575.



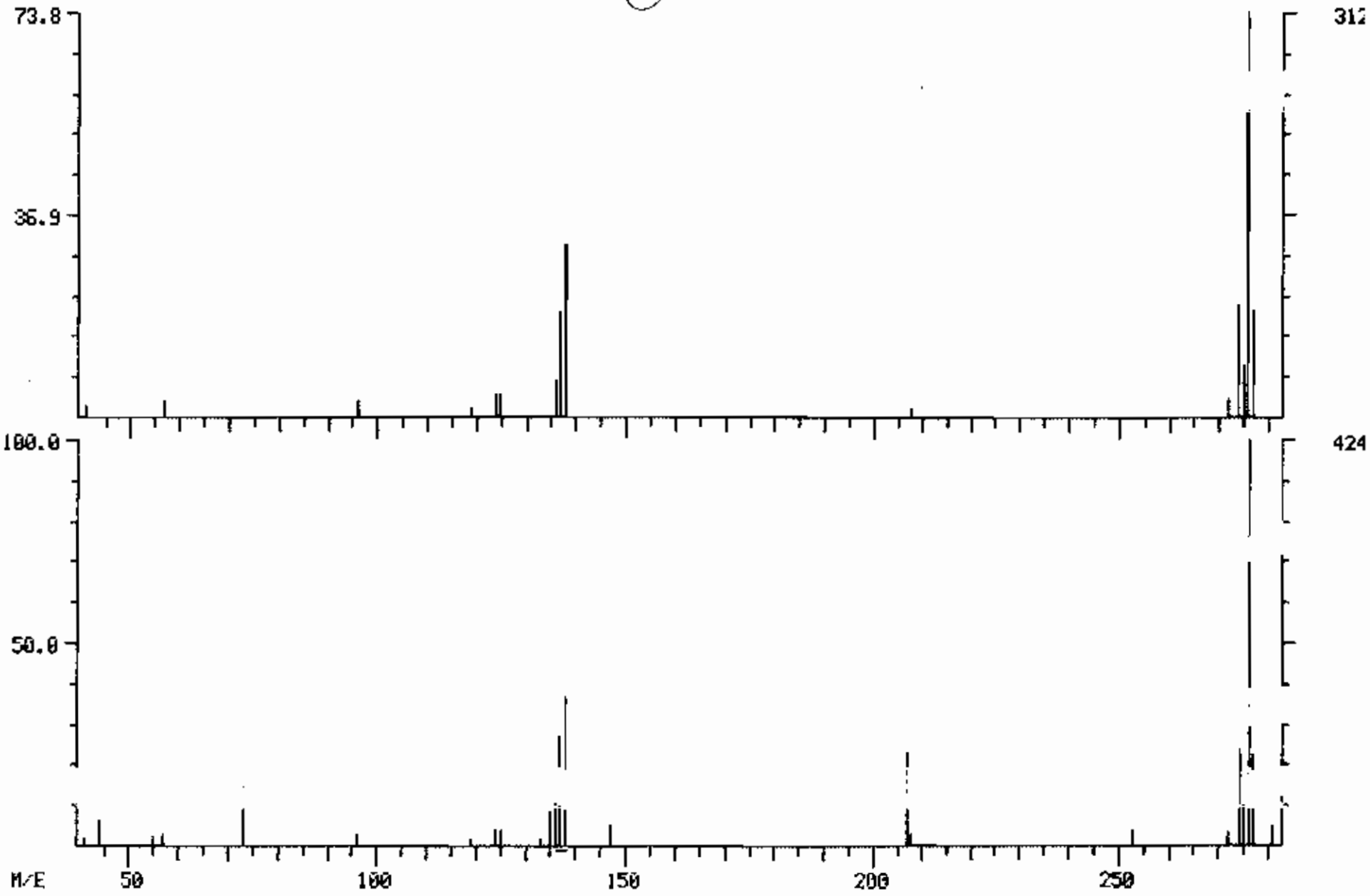
COMPUCHEM LABS

DUAL MASS SPECTRUM — DATA: GH085000B15 #1677 — BASE M/E: 276/ 276

05/16/86 22:49:00 + 25:15 — RIC: 8575./ 13823.

SAMPLE: 1 UL CC#85800 (5-13-86) CS#URS WEST EPA#D-SEDIMENT

SECOND SPECTRUM — DATA: GH085000B15 #1677 — 400 BENZO(G,H,I)PERYLENE (Q6#8) (191-24-2)



QUANTITATION REPORT FILE: STND

DATA: QH085000B15.TI
05/16/86 22:49:00
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT
CONDS.:
SUBMITTED BY: 15 ANALYST: SO3

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	475	7:09	4	0.416	A BB	957386.	60.759	15.82
2	RIC	588	8:51	4	0.514	A BB	752296.	82.041	21.35
3	RIC	752	11:19	4	0.658	A BB	822667.	89.715	23.35
4	RIC	1143	17:13	4	1.000	A BB	916978.	100.000	26.02
5	RIC	1353	20:23	4	1.184	A VB	474534.	51.750	13.47

QUANTITATION REPORT FILE: UNKNOWN

DATA: GH085000815.TI
05/16/86 22:49:00
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT
CONDS.:
SUBMITTED BY: 15 ANALYST: 803

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	941	14:10	1	1.000	A BV	223986.	100.000	23.35
2	RIC	950	14:18	1	1.010	A VV	158458.	70.745	16.52
3	RIC	1059	15:57	1	1.125	A BV	104352.	46.589	10.88
4	RIC	1069	16:06	1	1.136	A VV	133112.	59.429	13.89
5	RIC	1126	16:57	1	1.197	A VB	147648.	65.918	15.39
6	RIC	1333	20:04	1	1.417	A BB	94100.	42.011	9.81
7	RIC	1603	24:06	1	1.704	A BV	97531.	43.543	10.17

BNA1

COMPUCHEM LABS

M10 LIBRARY SEARCH
05/16/86 22:49:00 + 14:10
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT
CONDS.:

DATA: GH085000B15 # 941
ENHANCED (10B 2N 0T)

BASE M/Z: 192
RIC: 53695.

1192
SAMPLE

C15.H12 ANTHRACENE, 1-METHYL- CAS# 610-48-0
1192
M WT 192
B PK 192
RANK 1
14136
PUR 908

C15.H12 ANTHRACENE, 2-METHYL- CAS# 613-12-7
1192
M WT 192
B PK 192
RANK 2
14139
PUR 886

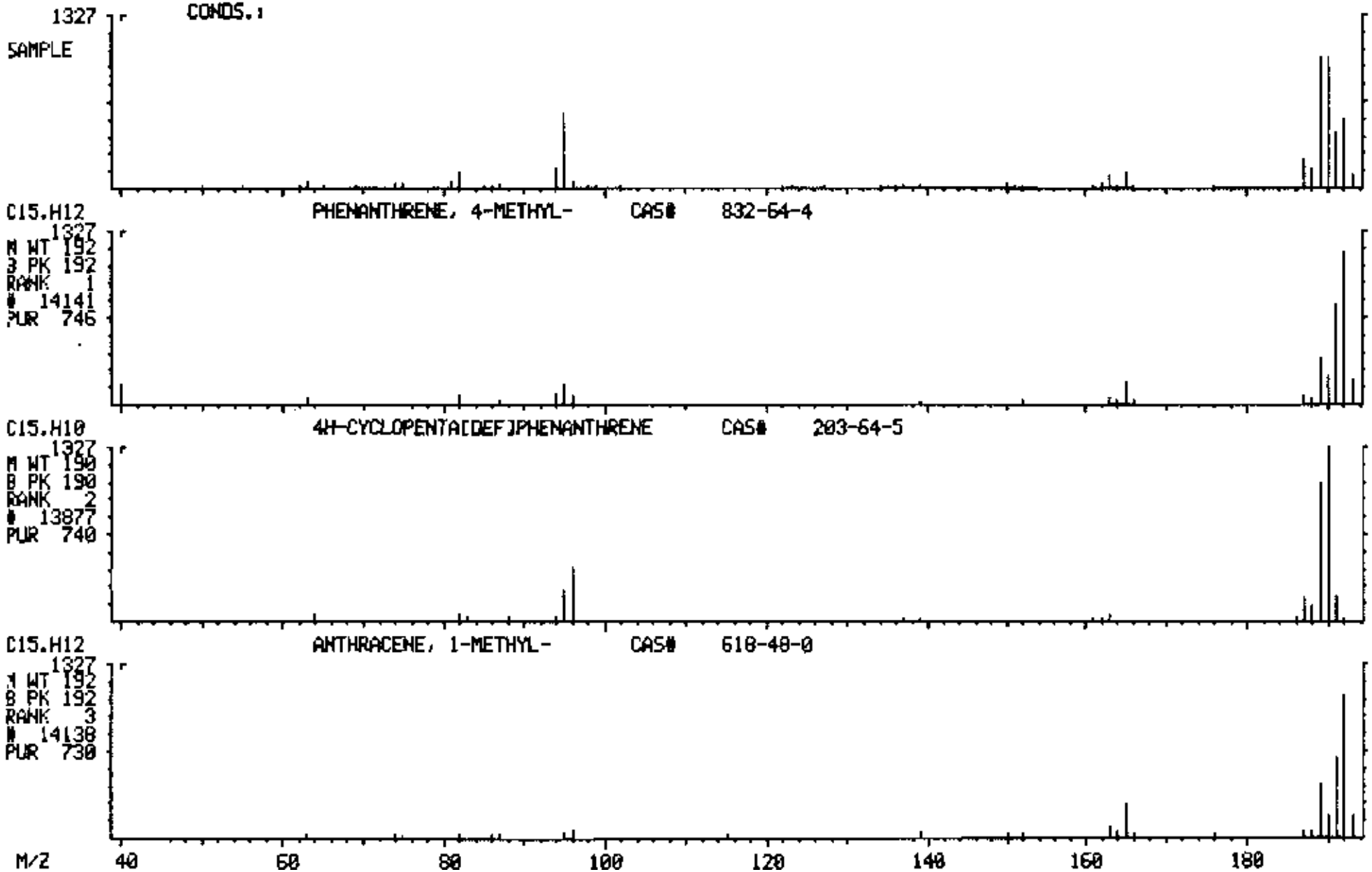
C15.H12 PHENANTHRENE, 3-METHYL- CAS# 832-71-3
1192
M WT 192
B PK 192
RANK 3
14143
PUR 876

M/Z 60 80 100 120 140 160 180 200

BNA2

COMPUCHEM LABS

MID LIBRARY SEARCH — DATA: GH085000B15 # 950 — BASE M/Z: 190
05/16/86 22:49:00 + 14:10 — ENHANCED (100 2N 0T) — RIC: 59135.
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT
CONDS.:



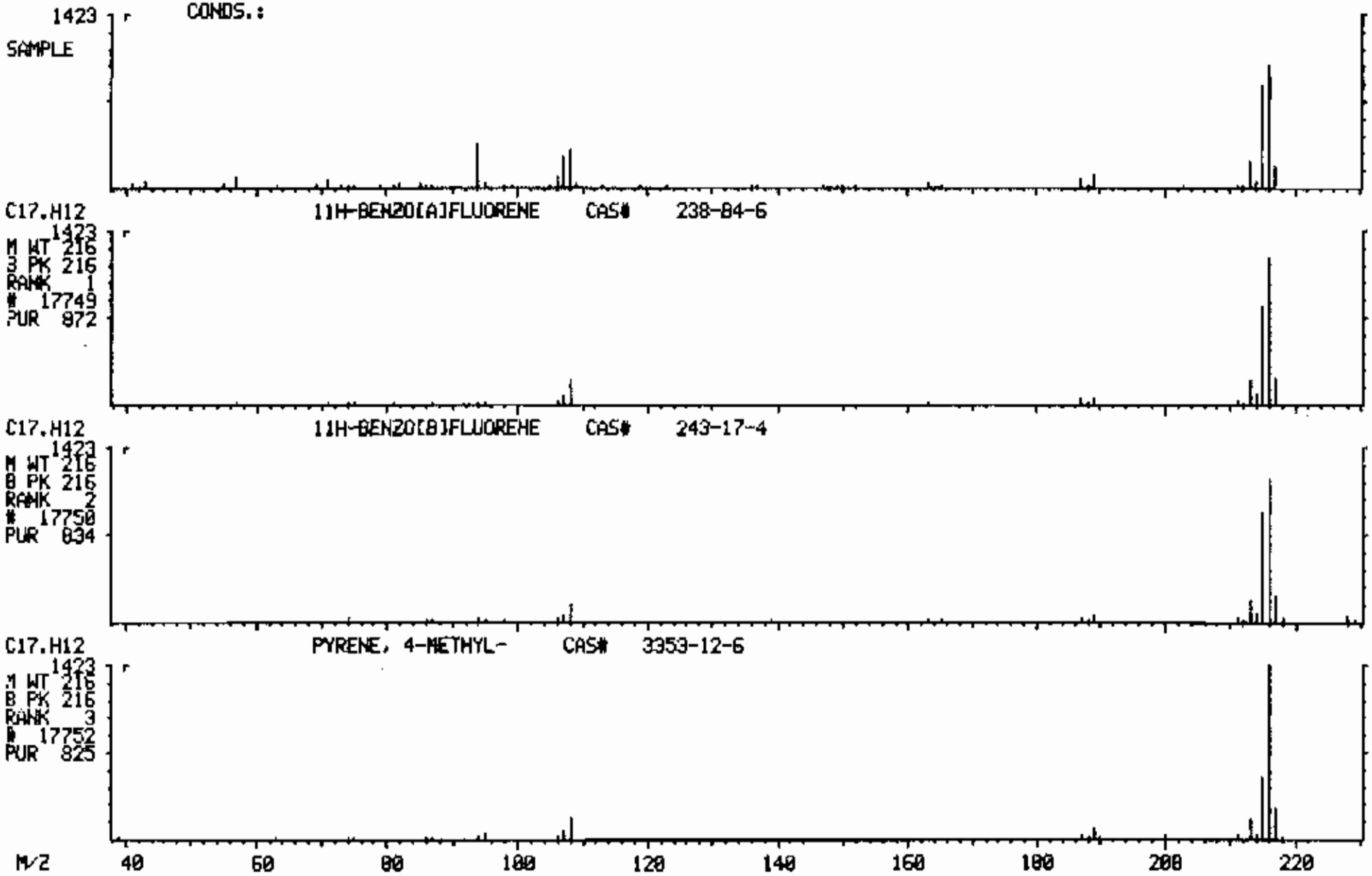
8NA3

COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 22:49:00 + 15:57
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT
CONDS.:

DATA: GH085000815 #1059
ENHANCED (10B 2H 0T)

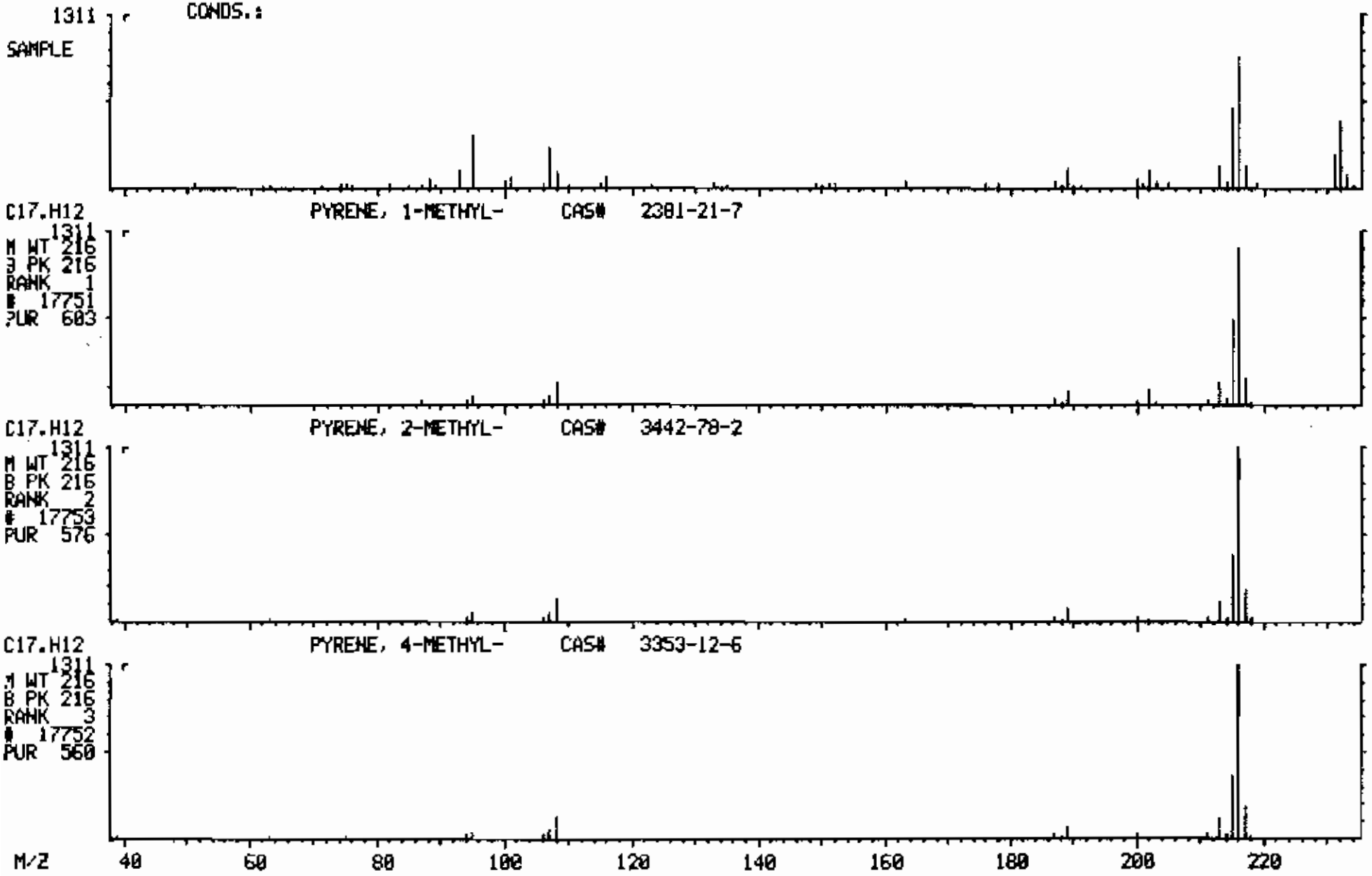
BASE M/Z: 216
RIC: 42751.



BNA4

COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 22:49:00 + 16:06
DATA: CH085000815 #1069
ENHANCED (100 2N 0T)
BASE M/Z: 216
RIC: 29791.
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT
CONDS.:

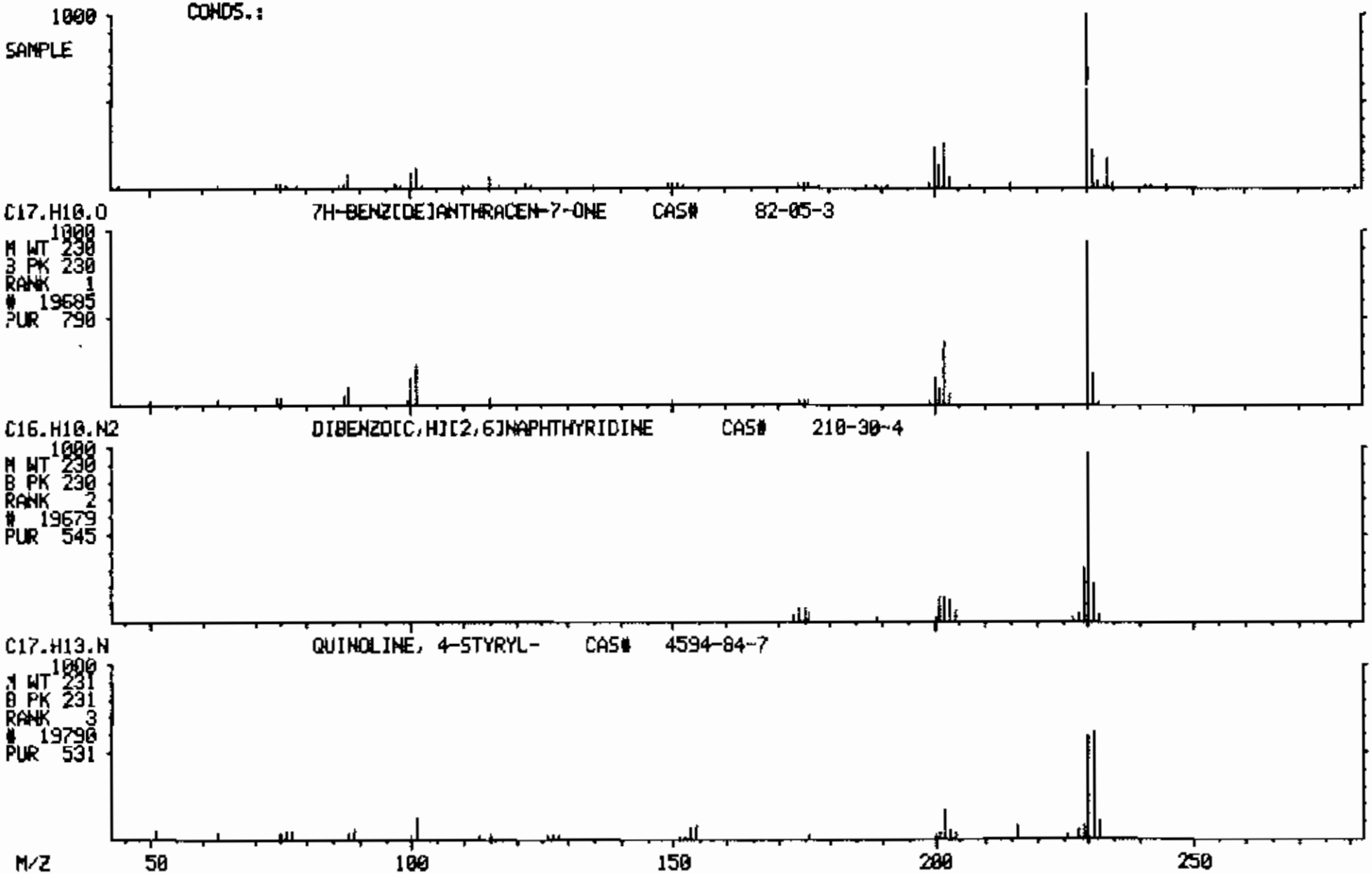


COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 22:49:00 + 16:57
SAMPLE: 1 UL CC#85000 (5-13-86) CS#URS WEST EPA#D-SEDIMENT
CONDS.:

DATA: GM085000B15 #1126
ENHANCED (108 2N 0T)

BASE M/Z: 230
RIC: 27903.



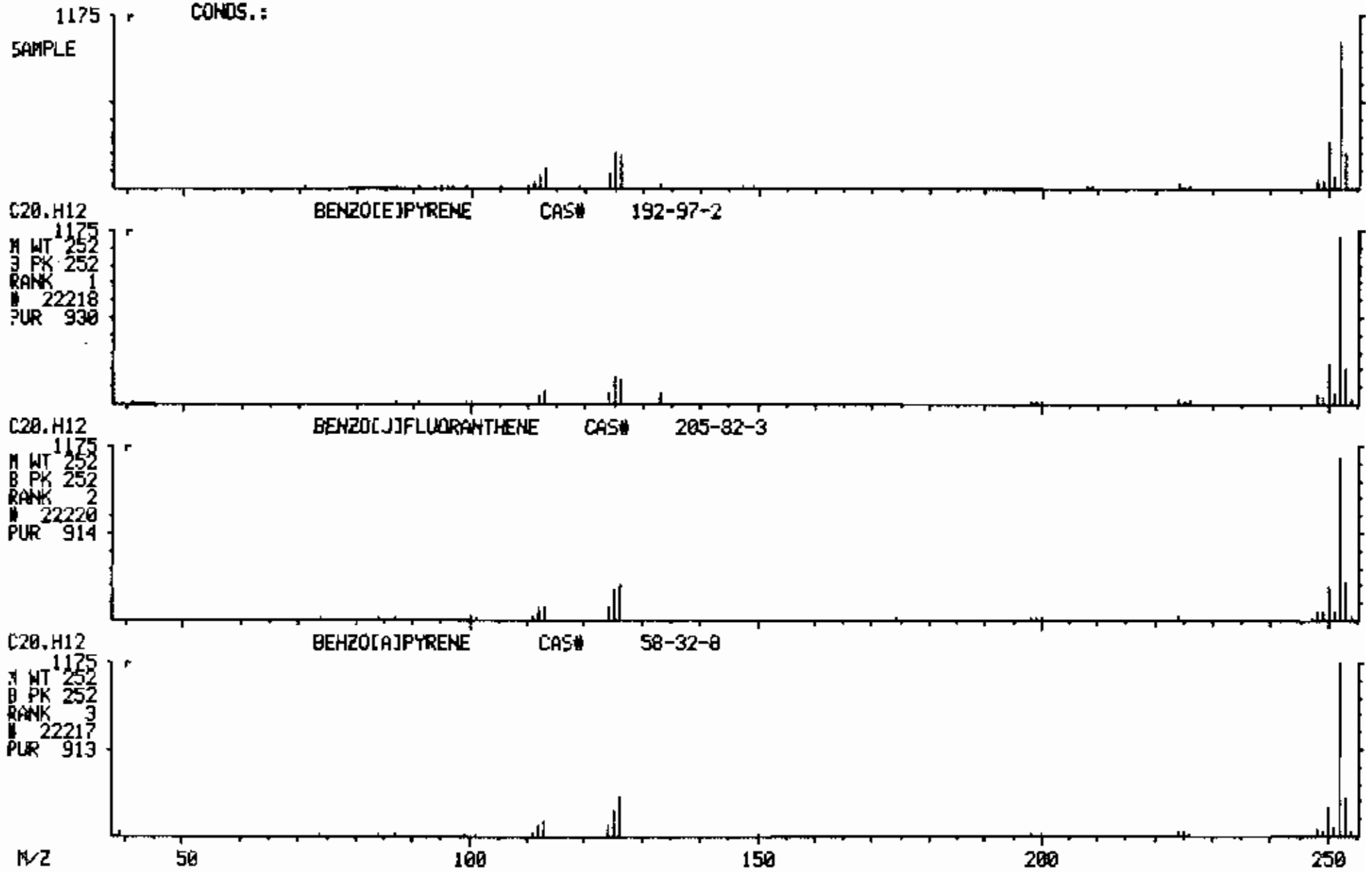
BNA6

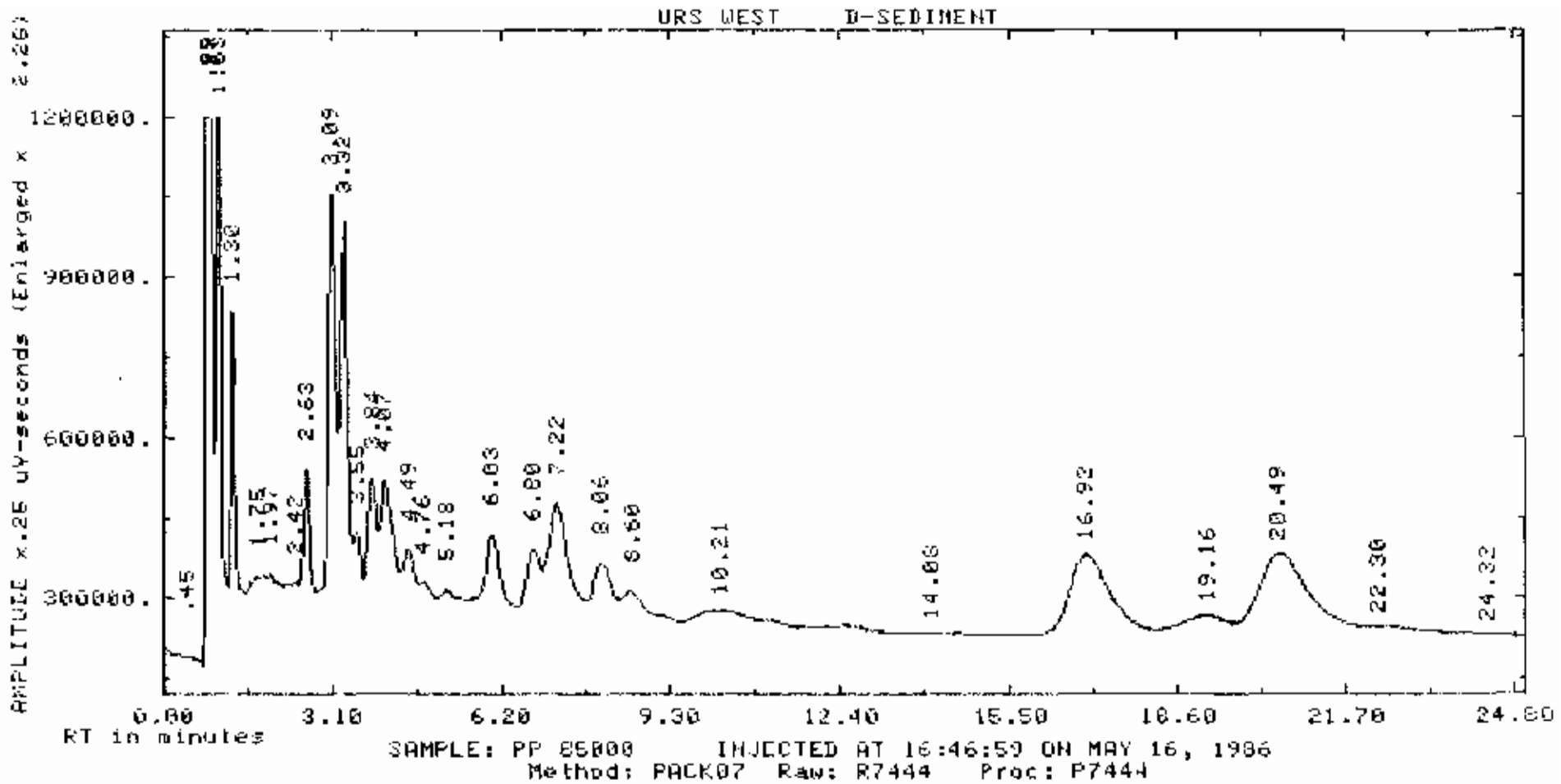
COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 22:49:00 + 20:04
SAMPLE: I UL CC#85000 (5-13-85) CS#URS WEST EPA#D-SEDIMENT
CONDS.:

DATA: GH085000B15 #1333
ENHANCED (10B 2N 0T)

BASE M/Z: 252
RIC: 24703.




URS WEST D-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 2.26)
1200000.
900000.
600000.
300000.
0.00
3.10
6.20
9.30
12.40
15.50
18.60
21.70
24.80
RT in minutes
.45
1.30
1.75
2.42
2.63
3.09
3.32
3.55
3.84
4.49
4.76
5.18
6.03
6.80
7.22
8.06
8.60
10.21
14.06
16.92
19.16
20.49
22.30
24.32
SAMPLE: PP 85800 INJECTED AT 16:46:59 ON MAY 16, 1986
Method: PACK07 Raw: R7444 Proc: P7444

Report: 217.00 Channel: 7 URS WEST D-SEDIMENT

Sample: PP 85000 Injected at 16:46:59 ON MAY 16, 1986

APCT Method: PACK07 Seq: SEQ74 Subsq/Samp: 1/44 Btl. 44

Si-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	10000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	500.00	NO

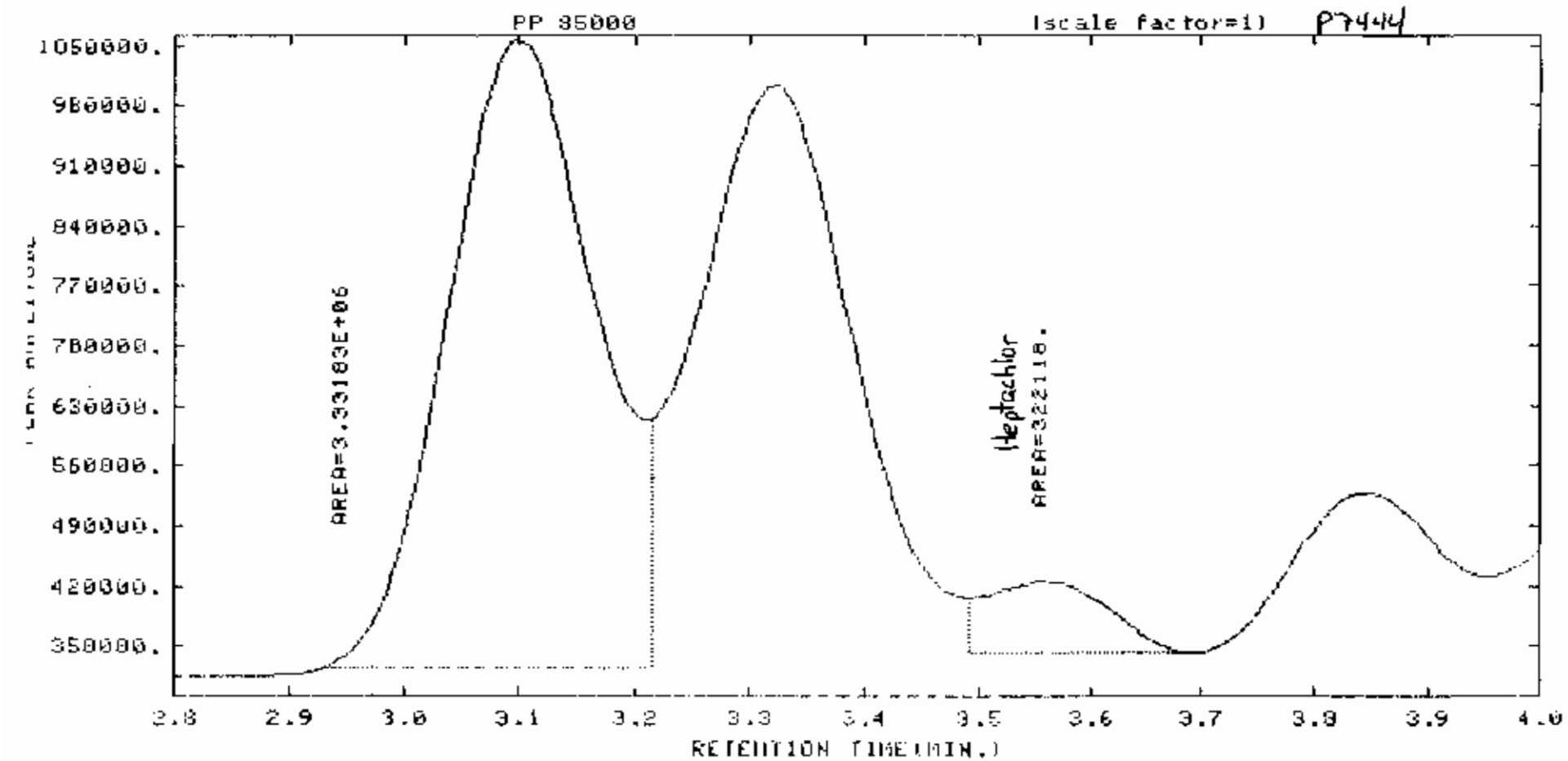
Actual run time: 25.008 minutes

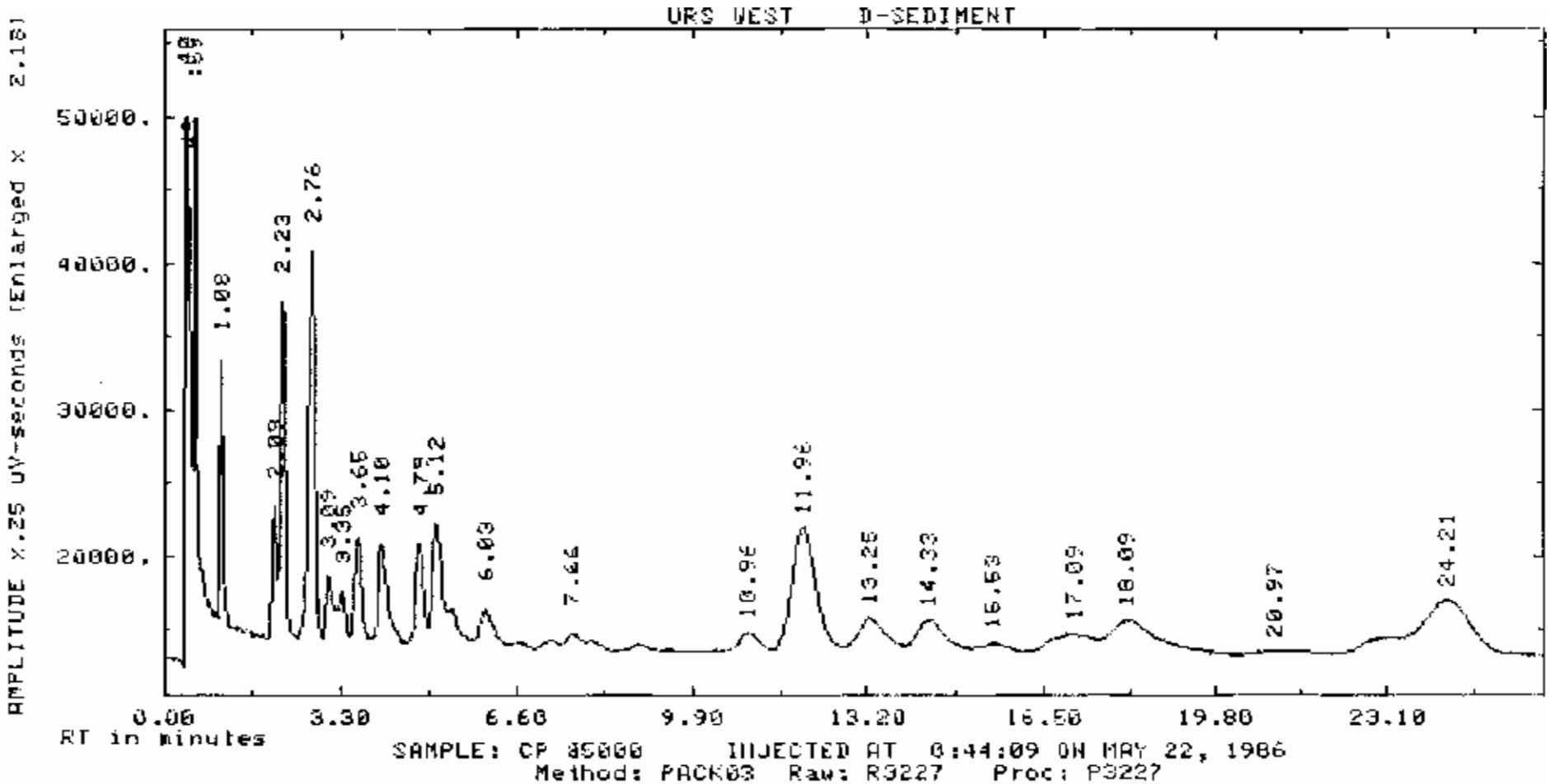
Ended not on baseline
No reference peak found

RT	ITM	Factor	Area		AREA %	Name
.45	0.00	.10000E+01	47421.	BB	.939	
.85	0.00	.10000E+01	1651956.	BS	32.700	
.89	0.00	.10000E+01	278342.	BB	5.450	
1.03	0.00	.10000E+01	4955037.	BS	98.083	
1.30	0.00	.10000E+01	1084615.	BS	21.474	
1.75	0.00	.10000E+01	50037.	BB	.990	
1.97	0.00	.10000E+01	18716.	BB	.370	
2.42	0.00	.10000E+01	10276.	BB	.203	
2.63	0.00	.10000E+01	780402.	BB	15.448	
3.09	0.00	.10000E+01	1575868.	BB	31.194	
3.32	0.00	.10000E+01	1728367.	BB	34.212	
3.56	0.00	.10000E+01	121864.	BB	2.412	
3.84	0.00	.10000E+01	498423.	BB	9.866	
4.07	0.00	.10000E+01	646477.	BB	12.797	
4.49	0.00	.10000E+01	230481.	BB	4.562	
4.76	0.00	.10000E+01	45966.	BB	.910	
5.18	0.00	.10000E+01	109764.	BB	2.173	
6.03	0.00	.10000E+01	1056357.	BB	20.910	
6.80	0.00	.10000E+01	383407.	DB	7.589	
7.22	0.00	.10000E+01	1296502.	BB	25.664	
8.06	0.00	.10000E+01	608208.	BB	12.039	
8.60	0.00	.10000E+01	222369.	BB	4.402	
10.21	0.00	.10000E+01	66046.	BB	1.307	
14.08	0.00	.10000E+01	17005.	BB	.337	
16.92	0.00	.10000E+01	3600072.	BB	71.262	
19.16	0.00	.10000E+01	381218.	BB	7.546	
20.49	0.00	.10000E+01	3746672.	BB	74.164	
22.30	0.00	.10000E+01	37134.	BB	.735	
24.32	0.00	.10000E+01	13098.	BF	.259	

Total Area = 25259336. Total AREA % = 13098.000

Processed data file: P7444 Raw data file: R7444


PP 35000
(scale factor=1)
P7444
1050000.
980000.
910000.
840000.
770000.
700000.
630000.
560000.
490000.
420000.
350000.
AREA=3.33183E+06
Heptachlor
AREA=322118.
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4.0
RETENTION TIME(MIN.)


URS WEST D-SEDIMENT
AMPLITUDE X.25 UV-seconds (Enlarged X 2.18)
50000.
40000.
30000.
20000.
.48
1.08
2.23
2.76
3.65
4.10
5.12
6.03
7.66
10.96
11.96
13.25
14.33
16.63
17.09
18.09
20.97
24.21
0.00
3.30
6.60
9.90
13.20
16.50
19.80
23.10
RT in minutes
SAMPLE: CP 85000 INJECTED AT 0:44:09 ON MAY 22, 1986
Method: PACK03 Raw: R3227 Proc: P3227

Report: 383.00 Channel: 3 URS WEST D-SEDIMENT

Sample: CP 85000 Injected at 0:44:09 ON MAY 22, 1986

ZERO Method: PACK03 Seq: SEQ32 Subsq/Samp: 1/27 Btl: 27

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	.300	0.00	5000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	500.00	NO

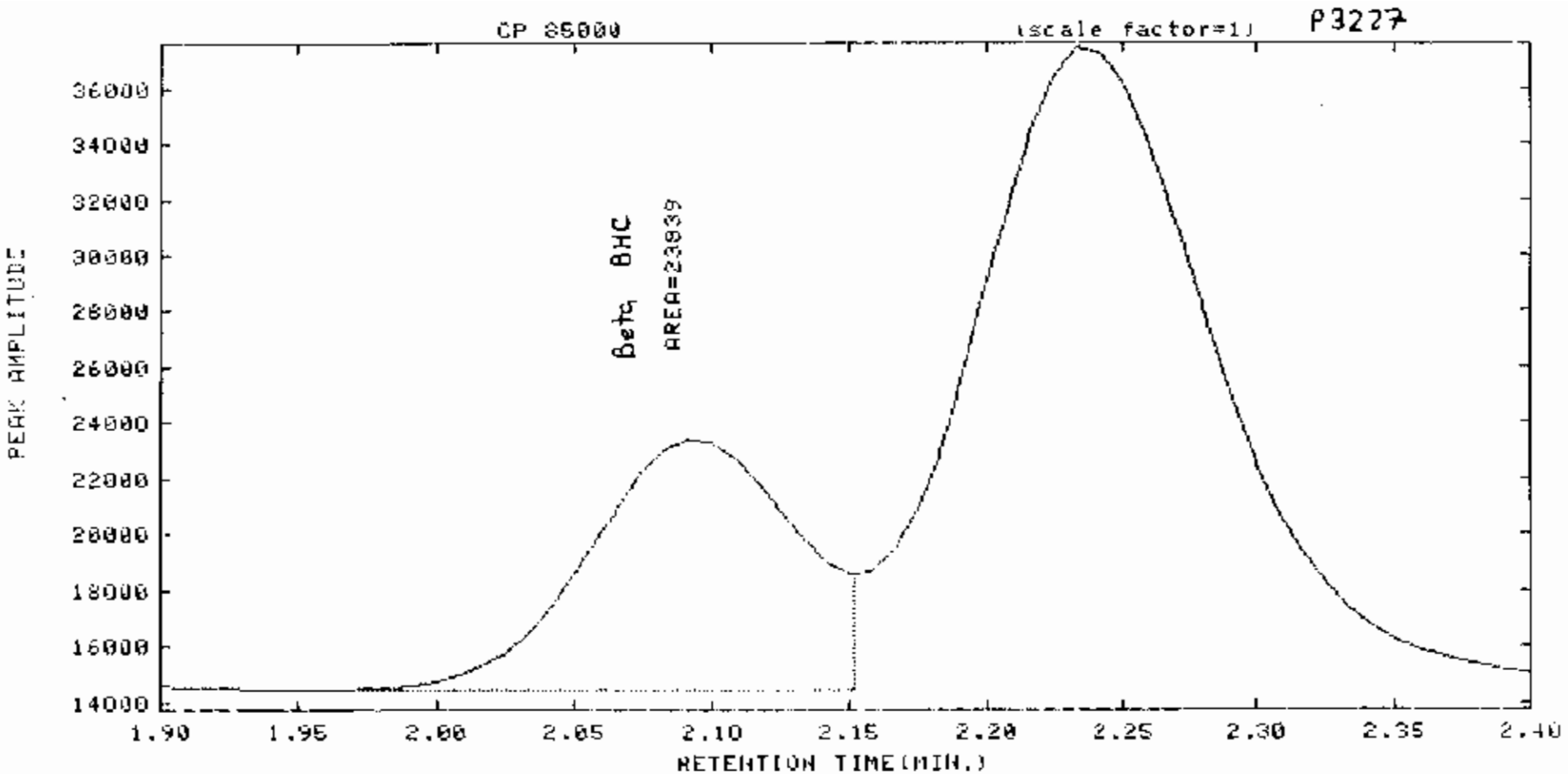
Actual run time: 26.017 minutes

Ended not on baseline

RT	ITM	Factor	Area		AREA %	Name
.40	0.00	.10000E+01	64933.	BB	30.040	
.49	0.00	.10000E+01	11447.	BB	6.706	
.59	0.00	.10000E+01	65634.	BB	38.451	
1.08	0.00	.10000E+01	31638.	BB	18.535	
2.09	0.00	.10000E+01	11485.	BB	6.728	
2.23	0.00	.10000E+01	51101.	BB	29.936	
2.76	0.00	.10000E+01	102723.	BB	60.178	
3.09	0.00	.10000E+01	11489.	BB	6.731	
3.35	0.00	.10000E+01	6309.	BB	3.696	
3.65	0.00	.10000E+01	29727.	BB	17.415	
4.10	0.00	.10000E+01	39708.	BB	23.262	
4.79	0.00	.10000E+01	28553.	BB	16.728	
5.12	0.00	.10000E+01	33478.	BB	19.612	
6.03	0.00	.10000E+01	17280.	BB	10.123	
7.66	0.00	.10000E+01	11820.	BB	6.929	
10.96	0.00	.10000E+01	15535.	BB	9.101	
11.98	0.00	.10000E+01	122447.	BB	71.734	
13.25	0.00	.10000E+01	28566.	BB	16.735	
14.33	0.00	.10000E+01	28089.	BB	16.456	
15.53	0.00	.10000E+01	6446.	BD	3.776	
17.09	0.00	.10000E+01	15768.	BB	9.238	
18.09	0.00	.10000E+01	36693.	BB	21.496	
20.97	0.00	.10000E+01	6972.	BB	4.084	
24.21	0.00	.10000E+01	75635.	BF	44.309	

Total Area = 853486. Total AREA % = 75635.000

Processed data file: P3227 Raw data file: R3227


CP 85000
(scale factor=1)
P3227
Beta BHC
AREA=23939
PEAK AMPLITUDE
36000
34000
32000
30000
28000
26000
24000
22000
20000
18000
16000
14000
1.90
1.95
2.00
2.05
2.10
2.15
2.20
2.25
2.30
2.35
2.40
RETENTION TIME(MIN.)

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB ONLY IN PLATINUM FORMAT
CASE#: URS WEST DUE DATE: 6/11/86

VOA R[ ] R2[ ] D[ ] (:1)
GC/MS WORKSHEET COMPUCHEM#: 85000
R3[ ] R4[ ] D2[ ] (:1)

LOW LEVEL SOLID

Sample Prep Code---155
Instrument Code----257
Compound List------146
Surrogate Std------394
Internal Std-------036

SAS: EPA#: D-SEDIMENT Dry Weight Factor 1.27

GC/MS ANALYSIS
Amount Purged: [X] 10mls/Xg soil or [ ]Dilution_____ul/10000ul/Xg soil
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BFB05148/8 Disk(2940)
Blank Filename GBSB05150/8 Disk ( )
Standard Filename GSB05150/8 Disk ( )
Sample Filename GHC5000A/8 Disk ( )

ANALYST(S): Injection 5/9 Work-up 5/9

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,ES,SM,JS,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR
IF,LA,DI,CD,RN,DW,SI,SF
UP,BB,OT,VC,FO,NS

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: 0

[ ] Reprep neat required

[ ] Reprep using_____g

Quality Assurance Notice(s):
Notices Required_____

[ ] Dilute (:1)

COMMENTS:

GC/MS Review SAB Date 5/15/86 Auditor_____Date____/____/____

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): GH05000AR/_____

QA COMMENTS:

Initials_____ Date____/____/____

FINAL REVIEW: Initials_____ Date____/____/____

C387 (09/85)

LAB INSTRUCTIONS: GC & R1 NO PEST REPORT PCB ONLY IN PLATINUM FORMAT

CASE#: URS WEST DUE DATE: 6/11/86

SEMI-VOLATILE GC/MS WORKSHEET COMPUCHEM#: 85000

J1[ ] R1[ ] D1[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

LOW LEVEL SOLID

Sample Prep Code--- -717
Instrument Code------255
Compound List--------172
Surrogate Std--------393
Internal Std---------035

SAMPLE ID/EPA#: D-SEDIMENT Dry Weight Factor 1.27

GC/MS ANALYSIS

Volumes mixed: BN — ul Acid 2000 ul

Internal Standard Volume Added 5 ul

Mixed Sample Volume Injected 1 ul

Date of Sample Bottle Analyzed 5 / 13 / 86

DFTPP Filename DH860516B15 Disk (3)

Standard Filename H4860516B1F Disk ( )

Sample Filename GH085000B1F Disk ( )

ANALYST(S): Injection 903 Work-up 903

GC/MS REVIEW

CONDITION CODE: A

Entry Codes DK,EA,JA, ES,AL,AH,PL,PH,PL,JS FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,DT,DA ED,IF,LA,DI,CO,RN,DW,NS

PLA05/19

Disposition: [✓] Complete

Extraneous Peak Search Results:

[ ] Reinjection required

# of Peaks Found: 6

[ ] Reextraction required

# of Hits: 4a

[ ] Dilute (:1)

# of Surrogate Outliers: 4

[ ] Reinject Neat

Quality Assurance Notice(s):

[ ] Send to QA

Notices Required: 0

GC/MS Review ___/___/___ Auditor [illegible] Date 5/20/86

REPORT INTEGRATION Total # of Injections: 1

Final Reportable Package(s): GH085000B1F

QA COMMENTS:

Initials ____ Date ___/___/___

FINAL REVIEW: Initials ____ Date ___/___/___

SW846 (07/85)

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB ONLY IN PLATINUM FORMAT
CASE # URS WESTDATE DUE 6/11/86

PESTICIDE WORKSHEET

COMPUCHEM # 8500

Sample Prep Code---716
Instrument Code----184
Compound List------177
Surrogate Std------396

LOW LEVEL SOLID

SAS: ID#: D-SEDIMENT Dry Weight Factor
Blank Associated With Case _____ _____ _____ 1.27
Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes |___|

Wt. of sample 30.41 g final volume of extract 2.0 mls

portion of wt. in pesticide 1/10 .

ANALYSIS INFORMATION: COMMENTS |___| Send to QA

Inst. # / Date Sequence Dil. Fact. ~~B DHE~~ |___| QA Approved

5-16 7 74 5 BDL ~~Hept.~~ |___| Need QC/MS Confirmation

5-22 3 32 5

___ ___ ___ ___ Analyst 924/899 Date 5-23-86

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE 3347 X Dilution Factor 5 X 100 = 119 % Recovery
AREA IN STD 15762
% Recovery X 0.1 ug/ml = .119 ug/ml

+EA = re-extract acceptable
JA = reinject acceptable
QA = repeat confirmed original results
OK = original data acceptable (not for REPEATS)
NS = insufficient sample for repeat
OL = OBC low ((20% Recovery)
OA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.

FINAL STATUS CODE+= OK

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA:_____

|___| QANA |___| QAN3 QA notice included.

SAMPLE DISPOSITION Code

|___| Complete.....

|___| Requires Re-extraction.. 716

|___| Requires reprep..... 930

|___| Requires cleanup..... 901

Audited By_____ Date_____

ENTERED 5/27/86

(19)

VOLATILE PREP WORKSHEET

№ 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
84986	-155	URS WEST			5.07g	5.13.86					ENT
84988	"	"	BS		0ml	"					
84989	"	"	SS	84986	5.07g	"					
84990	"	"			5.01g	"					ENT
84991	"	"	SS	84990	5.01g	"					
85000	"	"			5.02g	"					ENT
85001	"	"			5.07g	"					ENT
85002	"	"			5.00g	"					ENT
85003	"	"			5.01g	"					ENT
85004	"	"			5.09	"					ENT
85005	"	"			5.09	"					ENT
85028			B		5.0ml	5.13.86					
85029			B		0ml	5.13.86					
			B								

Surrogate No. /

Amount /

Lot /

MBy 5-13-86

Schedule Reference

Manual Counter 2781 715

(47)

VOLATILE PREP WORKSHEET

№ 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
84986	-158	WEST			20.09g	5/13/86			✓		ENT
84987			BS		40 ml				✓		
84990					20.06g				✓		ENT
85000					20.02g				✓		ENT
85001					20.07g				✓		ENT
85002					20.02g				✓		ENT
85003					20.05g				✓		ENT
85004					20.10g				✓		ENT
85005					20.01				✓		ENT
85034			B		40 ml	5-13-86			✓		
85035			B		40 ml	5-13-86			✓		
			B								

REPEAT 5/14/86

Surrogate No. # 381
Amount 200 µl
Lot 17471

MBA 5/13/86

Schedule Reference
Manual Counter 288/472

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: Linda L.A.P.

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
84992	-153	WKSwat	N/A	BS		30.00	1ml	—		—			5/13	
84993	-717	WKSwat		BS		30.00	—	0.9		1ml			5/13	
84994		WKSwat		SS	84501	30.55	—	0.9		1ml			5/13	270/699
84995		WKSwat		SS	84001	30.32	—	0.9		1ml			5/13	
84986		WKSwat				30.89	1ml	0.9		1ml			5/13	
84990						30.34	1ml	0.9		1ml			5/13	
85000						30.41	1ml	0.9		1ml			5/13	
85001						30.82	1ml	0.9		1ml			5/13	
85002						30.45	1ml	0.9		1ml			5/13	
85003						30.85	1ml	0.9		1ml			5/13	

Blanks 85102, 85103 on BF 9782 along w/other samples

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	12791			11636		
SPIKE	NO.		302	297			
	AMT.		1ml	1.0ml			
	LOT		11654	12771			

MANUAL COUNTER 270/699

FINAL VOLUME VERIFIED L.A.P.

SUPERVISOR REVIEWED CK

EXTRACTS RECEIVED BY BD 5/13/86

Matrix Lot # 309

Mailed 5/13/86

№ 9781

EXTRACTION WORKSHEET
Semi-Volatiles / Miscellaneous

ASSIGNED TO: [illegible]

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	A	DATE COMPT	COMMENTS
85004	-717	Mxswgt	NA			30.44	1ml	0.9		1.0			5/13	
85005	↓	↓	↓			30.20	1ml	0.9		1.0			5/13	
85102				B1		30.00	1ml	0.9		1.0			5/13	
85103	↓			B2		30.00	1ml	0.9		1.0			5/13	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17794			17646		
SPIKE	NO.						
	AMT.						
	LOT						

Add'n samples on # 9784

MANUAL COUNTER 270/613

FINAL VOLUME VERIFIED LLP

SUPERVISOR REVIEWED [illegible]

EXTRACTS RECEIVED BY BT 5/13/86

Acetone Lot # 509

№ 9782

EXTRACTION WORKSHEET

Pesticide/Herbicide

ASSIGNED TO: [illegible]

DATE ASSIGNED 5-13-86

PAGE ______ OF ______

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV / B/N	ACID	PEST	ALUMINA COLUMN START VOL	ALUMINA COLUMN FINAL VOL	DATE COMPT	COMMENTS
84992	1/5	WSwat	N/A	BS		30.00	1.1	—		—		2X1mL		
84993	7/16	wswat		BS		30.00	—	0.9		1.1				
84994		wswat		SS	84984	30.58	—	0.9		1.1				272/474
84995		wswat		SS	85001	30.33	—	0.9		1.1				
84986		WSwat	A SEDIMENT			30.89	1.1	0.9		1.1	1.0 mL	2.0 mL	5.14.86	
84990			B SEDIMENT			30.24	1.1	0.9		1.1	1.0	2.0	5.14	
85000			D SEDIMENT			30.41	1.1	0.9		1.1	1.0	2.0	5.14	
85001			E SEDIMENT			30.52	1.1	0.9		1.1	1.0	2.0	5.14	
85002			F SEDIMENT			30.45	1.1	0.9		1.1	1.0	2.0	5.14	
85003			G SEDIMENT			30.85	1.1	0.9		1.1	1.0	2.0	5.14	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17774			17686		
SPIKE	NO.		3ol2	2021			
	AMT.		1.0ml	2.0ml			
	LOT		17654	17777			

Blank 85102 / 85103 ? on Q 9782 along w/other samples
CASE

MANUAL COUNTER 330 /6/3 — 05/14/86

FINAL VOLUME VERIFIED L.A.P.

SUPERVISOR REVIEWED [illegible]

EXTRACTS RECEIVED BY [illegible] 5/13/86

Acetone Lot # 309

Alumina Batch 5-13-86 -AL

POSTED 5-14-86 OKS

№ 978

EXTRACTION WORKSHEET
Pesticide/Herbicide

ASSIGNED TO: [illegible]

DATE ASSIGNED 5-13-86

PAGE ______ OF ______

OKS

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ALUMINA COLUMN START VOL	ALUMINA COLUMN FINAL VOL	DATE COMPT	COMMENTS
85004	-7/6	Newsurst	H-SEDIMENT NH			20.[illegible]	1			10.0	10ml	2.0ml	5-14-86	
85005	↓	UAS WEST ↓	G-SEDIMENT ↓			30.30	1	[illegible]		10.0	10	2.0	5-14	
85102				B		30.00	1	[illegible]		10.0	1.0ml	2.0ml	5-14-86	
85103	↓			B2		30.00	1	[illegible]		10.0	1.0	2.0	5-14	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5		[illegible]	2.0		
	LOT	17794			12686		
SPIKE	NO.						
	AMT.						
	LOT						

Added samples on # 9781

Case ✓ BW 05/14/86

POSTED 5-14-86

MANUAL COUNTER 570/613

FINAL VOLUME VERIFIED LAP

SUPERVISOR REVIEWED [illegible]

EXTRACTS RECEIVED BY BT 5/13/86

Acetone Lot # 309

Alumina Batch 5-13-86-AL

№ 9781

VOLATILE - LOW LEVEL SOLID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)		DETECT. LIMIT (UG/KG)
234	128	I	BROMOCHLOROMETHANE (IS) <75	192	49700.	50.0			
221	50		CHLOROMETHANE <75-01-4> E5#				BDL		13.
220	94		BROMOMETHANE <78-83-9> E5#3				BDL		13.
231	62		VINYL CHLORIDE <75-01-4> E5				BDL		13.
209	64		CHLOROETHANE <75-00-3> E5#5				BDL		13.
222	84		METHYLENE CHLORIDE <75-09-2			18.1	23.		6.
252	43		ACETONE (2-PROPANONE) <67-6			9.4	J	B	13.
254	76		CARBON DISULFIDE <75-15-0>				BDL		6.
216	96		1,1-DICHLOROETHYLENE <75-35				BDL		6.
214	63		1,1-DICHLOROETHANE <75-34-3				BDL		6.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL		6.
211	83		CHLOROFORM <67-66-3> E5#12				BDL		6.
215	62		1,2-DICHLOROETHANE <107-06-				BDL		6.
248	114	I	1,4-DIFLUOROBENZENE (IS) <5	401	203000.	50.0			
253	72		2-BUTANONE <78-93-3> E6#2				BDL		13.
227	97		1,1,1-TRICHLOROETHANE <71-5				BDL		6.
206	117		CARBON TETRACHLORIDE <56-23				BDL		6.
257	43		VINYL ACETATE <108-05-4> E6				BDL		13.
212	83		BROMODICHLOROMETHANE <75-27				BDL		6.
217	63		1,2-DICHLOROPROPANE <78-87-				BDL		6.
250	75		TRANS-1,3-DICHLOROPROPENE <				BDL		6.
229	130		TRICHLOROETHYLENE <79-01-6>				BDL		6.
208	129		CHLORODIBROMOMETHANE <124-4				BDL		6.
228	97		1,1,2-TRICHLOROETHANE <79-0				BDL		6.
03	78		BENZENE <71-43-2> E6#12				BDL		6.
218	75		CIS-1,3-DICHLOROPROPENE <10				BDL		6.
210	63		2-CHLOROETHYL VINYL ETHER <				BDL		13.
205	173		BROMOFORM <75-25-2> E6#15				BDL		6.
270	117	I	D5-CHLOROBENZENE (IS)	502	200000.	50.0			
256	43		4-METHYL-2-PENTANONE <108-1				BDL		13.
255	43		2-HEXANONE <591-78-6> E7#3				BDL		13.
224	164		TETRACHLOROETHENE <127-18-4				BDL		6.
223	83		1,1,2,2-TETRACHLOROETHANE <				BDL		6.
225	92		TOLUENE <108-88-3> E7#6				BDL		6.
207	112		CHLOROBENZENE <108-90-7> E7				BDL		6.
219	106		ETHYLBENZENE <100-41-4> E7#				BDL		6.
251	104		STYRENE <100-42-5> E7#9				BDL		6.
240	106		M-XYLENE E7#10				BDL		6.
271	106		O,P-XYLENE E7#11				BDL		6.
258	65	S	D4-1,2-DICHLOROETHANE E8#2			44.7	89.	%	
247	95	S	BROMOFLUOROBENZENE <460-00-			44.7	89.	%	
233	98	S	D8-TOLUENE E8#4			44.6	89.	%	
CHECKSUMS:									
1964.	744			1095	452700.	311.5	290.		

VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE ES#2	44.7	50.0	89.	70-121	X	
41	247	BROMOFLUOROBENZENE <460-00-	44.7	50.0	89.	74-121	X	
42	233	D8-TOLUENE ES#4	44.6	50.0	89.	81-117	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#1) BROMOCHLOROMETHANE > 10000 COUNTS	/	

CORRECTION FACTOR CALCULATION:

$$\frac{5.0\ G}{\text{WET WEIGHT OF SAMPLE (G)}} \times \text{GC/MS DILUTION FACTOR} \times \text{DRY WEIGHT FACTOR} =$$

$$\frac{5.0\ G}{5.02\ (G)} \times \frac{1.0}{} \times \frac{1.3}{} = 1.260$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

COMPUCHEM # 085000 FILE: GH085000815 COMPOUND LIST 172 PAGE 1
SEMI-VOLATILE - LOW LEVEL SOLID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG
								K-27
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	475	73000.	40.0		
610	94		PHENOL (G1#3) <108-95-2>				BDL	330.
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	330.
601	128		2-CHLOROPHENOL (G1#6) <95-5				BDL	330.
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	330.
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	330.
474	108		BENZYL ALCOHOL (G1#9) <100-				BDL	330.
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	330.
620	108		2-METHYLPHENOL (G1#11) <95-				BDL	330.
412	45		BIS(2-CHLORDISOPROPYL)ETHER				BDL	330.
622	108		4-METHYLPHENOL (G1#13) <106				BDL	330.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	330.
436	117		HEXACHLOROETHANE (G1#15) <6				BDL	330.
440	77		NITROBENZENE (G1#16) <98-95				BDL	330.
460	136	I	D8-NAPHTHALENE (IS#2)	598	301000.	40.0		
438	82		ISOPHORONE (G2#2) <78-59-1>				BDL	330.
606	139		2-NITROPHENOL (G2#3) <88-75				BDL	330.
603	122		2,4-DIMETHYLPHENOL (G2#4) <				BDL	330.
625	122		BENZOIC ACID (G2#5) <65-85-				BDL	1700.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	330.
602	162		2,4-DICHLOROPHENOL (G2#7) <				BDL	330.
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	330.
439	128		NAPHTHALENE (G2#9) <91-20-3				BDL	330.
175	127		4-CHLOROANILINE (G2#10) <10				BDL	330.
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	330.
608	107		P-CHLORO-M-CRESOL (G2#12) <				BDL	330.
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	330.
495	164	1	D10-ACENAPHTHENE (IS#3)	752	124000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	330.
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	330.
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	1700.
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	330.
478	65		2-NITROANILINE (G3#6) <88-7				BDL	1700.
425	163		DIMETHYL PHTHALATE (G3#7) <				BDL	330.
402	152		ACENAPHTHYLENE (G3#8) <208-			1.7	J	330.
479	138		3-NITROANILINE (G3#9) <99-0				BDL	1700.
401	153		ACENAPHTHENE (G3#10) <83-32			1.6	J	330.
605	184		2,4-DINITROPHENOL (G3#11) <				BDL	1700.
607	139		4-NITROPHENOL (G3#12) <100-				BDL	1700.
476	168		DIBENZOFURAN (G3#13) <132-6			2.2	J	330.
427	89		2,4-DINITROTOLUENE (G3#14)				BDL	330.
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	330.
424	149		DIETHYL PHTHALATE (G3#16) <				BDL	330.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	330.
432	166		FLUORENE (G3#18) <86-73-7>			4.8	J	330.
480	138		4-NITROANILINE (G3#19) <100				BDL	1700.
467	188	I	D10-PHENANTHRENE (IS#4)	890	154000.	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	1700.
443	169		N-NITROSODIPHENYLAMINE (G4#				BDL	330.
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	330.
433	284		HEXACHLOROBENZENE (G4#5) <1				BDL	330.
609	266		PENTACHLOROPHENOL (G4#6) <8				BDL	1700.
444	178		PHENANTHRENE (G4#7) <85-01-			44.1	1900 ~~1500.~~	330.
403	178		ANTHRACENE (G4#8) <120-12-7			9.2	J	330.

SEMI-VOLATILE - LOW LEVEL SOLID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
426	149		DI-N-BUTYL PHTHALATE (Q4#9)				BDL	330.
431	202		FLUORANTHENE (Q4#10) <206-4			42.7	1600 ~~1400.~~	330.
459	240	I	D12-CHRYSENE (IS#5)	1143	138000.	40.0		
445	202		PYRENE (Q5#3) <129-00-0>			30.9	1300 ~~1000.~~	330.
415	149		BUTYLBENZYL PHTHALATE (Q5#4				BDL	330.
423	252		3,3'-DICHLOROBENZIDINE (Q5#				BDL	670.
405	228		BENZO(A)ANTHRACENE (Q5#6) <			17.6	750 ~~590.~~	330.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	330.
418	228		CHRYSENE (Q5#8) <218-01-9>			17.2	730 ~~870.~~	330.
497	264	I	D12-PERYLENE (IS#6)	1353	143000.	40.0		
429	149		DI-N-OCTYL PHTHALATE (Q6#2)				BDL	330.
407	252		BENZO(B)FLUORANTHENE (Q6#3)		28.6 ~~144~~	~~23.8~~	1000 ~~790.~~	330.
409	252		BENZO(K)FLUORANTHENE (Q6#4)		28.6 ~~0.89~~	~~36.2~~	1200 ~~1200.~~	330.
406	252		BENZO(A)PYRENE (Q6#5) <50-3			13.8	590 ~~460.~~	330.
437	276		INDENO(1,2,3-C,D)PYRENE (Q6			6.8	J	330.
419	278		DIBENZO(A,H)ANTHRACENE (Q6#			2.6	J	330.
408	276		BENZO(G,H,I)PERYLENE (Q6#8)			6.1	J	330.
619	112	S	2-FLUOROPHENOL (SS#1)			58.5	59.%	
612	99	S	D5-PHENOL (SS#2)			59.6	61.%	
447	82	S	D5-NITROBENZENE (SS#3)			30.4	62.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			28.6	58.%	
628	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			35.0	36.%	
496	244	S	D14-TERPHENYL (SS#6)			25.9	53.%	
71	212	S	D10-PYRENE			26.3	54.%	
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	33.
CHECKSUMS:								
13336.	5647			5201	933000.	765.4	7893.	

TK

ZL

SEMI-VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
72	619	2-FLUOROPHENOL (SS#1)	58.5	98.3	59.	26-121	X	
73	612	D5-PHENOL (SS#2)	59.6	98.3	61.	24-113	X	
74	447	D5-NITROBENZENE (SS#3)	30.4	49.2	62.	23-120	X	
75	448	2-FLUOROBIPHENYL (SS#4)	28.6	49.2	58.	30-115	X	
76	628	2,4,6-TRIBROMOPHENOL (SS#5)	35.0	98.3	36.	18-123	X	
77	496	D14-TERPHENYL (SS#6)	25.9	49.2	53.	18-137	X	
78	471	D10-PYRENE	26.3	49.2	54.	33-128*	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ✓ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{SPLIT FACTOR (*)}} \times \frac{30.0\text{G}}{\text{AMOUNT EXTRACTED(G)}} \times \text{DRY WEIGHT FACTOR} \times \text{GC/MS DILUTION FACTOR} \times 33.3 =$$

$$\frac{0.9\text{ML}}{0.885} \times \frac{30.0\text{G}}{30.41} \times \frac{1.27 \quad \cancel{1.0}}{} \times \frac{1.0}{} \times 33.3 = \cancel{33.400} \quad 42.4$$

* SPLIT FACTOR = (295/300)(9/10) IF PEST/TCDD VOLUMES ARE INDICATED ON LOG
= 1 IF PEST/TCDD VOLUMES ARE NOT INDICATED ON EXTRACTION LOG

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\text{ UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{SPLIT FACTOR}} \times \text{GCMS DILUTION FACTOR} =$$

$$\frac{1000\text{ UL}}{500\text{ UL}} \times \frac{0.9\text{ML}}{0.885\text{ML}} \times \frac{1.0}{} = 2.030$$

COMPOUND LIST NO. - 177

COMPUCHEM # 85000 DATE

IDENTIFIER PESTICIDES (LOW LEVEL SOLID)

DIL FACT_____DRY WT_____ _30__SPLIT_____FINAL VOL_____/5 = 1.25

AMT SAMPLE_____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/kg
1.	0701	ALDRIN		8.0
2.	0702	ALPHA-BHC		8.0
3.	0703	BETA-BHC	24	8.0
4.	0704	GAMMA-BHC		8.0
5.	0705	DELTA-BHC		8.0
6.	0706	TECHNICAL CHLORDANE		80.0
7.	0707	4,4'-DDT		16.0
8.	0708	4,4'-DDE		16.0
9.	0709	4,4'-DDD		16.0
10.	0710	DIELDRIN		16.0
11.	0711	ENDOSULFAN I	BDL	8.0
12.	0712	ENDOSULFAN II		16.0
13.	0713	ENDOSULFAN SULFATE		16.0
14.	0714	ENDRIN		16.0
15.	0739	ENDRIN KETONE		16.0
16.	0716	HEPTACHLOR	16	8.0
17.	0717	HEPTACHLOR EPOXIDE		8.0
18.	~~0726~~	~~METHOXYCHLOR~~		80.0
19.	0724	AROCHLOR 1016		80.0
20.	0720	AROCHLOR 1221		80.0
21.	0721	AROCHLOR 1232		80.0
22.	0718	AROCHLOR 1242	BDL	80.0
23.	0722	AROCHLOR 1248		80.0
24.	0719	AROCHLOR 1254		160.0
25.	0723	AROCHLOR 1260		160.0
26.	~~0725~~	~~TOXAPHENE~~		160.0

ANALYST'S COMMENTS:

This sample contained βBHC (74ng/kg) as heptachlor (16ng/kg) but will not be reported since the client wants only PCB

GC SCREEN DATA SHEET

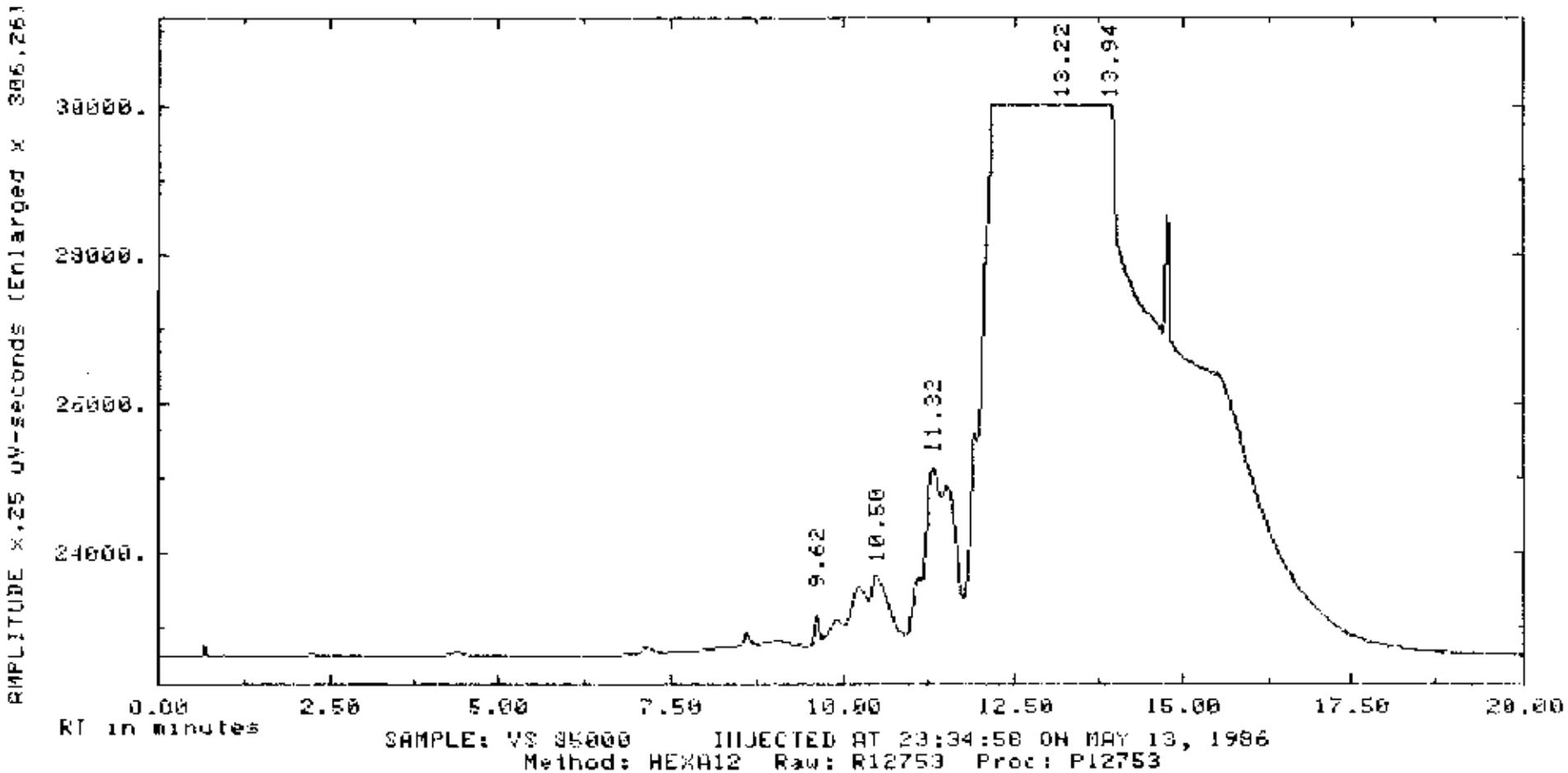
Laboratory Name CompuChem

Case Number URS WEST

Sample ID Number	Fraction	GC Detectable* Medium Level	Date of Screen	Level of GC/MS Analysis**
D-SEDIMENT	VOA	NO	5/13/86	L
	B/N/A	NO	5/16/86	L
	Pesticides			
8500	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			

*Answer Yes or No

**Indicate "M" for Medium Level GC/MS analysis.
Indicate "L" for Low Level GC/MS analysis.


AMPLITUDE x.25 uV-seconds (Enlarged x 386.26)
30000.
28000.
26000.
24000.
9.62
10.50
11.32
12.22
12.94
0.00
2.50
5.00
7.50
10.00
12.50
15.00
17.50
20.00
RT in minutes
SAMPLE: VS 85000 INJECTED AT 23:34:58 ON MAY 13, 1986
Method: HEXA12 Raw: R12753 Proc: P12753

Report: 102.00 Channel 12

Sample: V5 65006 Injected at 23:34:58 On MAY 13, 1996

ZERO Method: HEXA12 Seq. SEQ127 Subsq/Samp: 1/53 Btl: 53

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	100	Auto

Sup-Unx	DvT	ID-Lvl	Ref-RTw	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 20.008 minutes

RT	ITH	Factor	Area		AREA %	Name
9.62	0.00	.10000E+01	717.	BB	.001	
10.50	0.00	.10000E+01	9520.	BH	.013	
11.32	0.00	.10000E+01	30247.	HH	.042	
13.22	0.00	.10000E+01	72424720.	HS	99.939	
13.94	0.00	.10000E+01	3570.	TT	.005	

Total Area = 72468768. Total AREA % = 3570.094

Processed data file: P12753 Raw data file: R12753

SCREEN WORKSHEET

Computer # 85000

Sample Prep Code-153_

Instrument Code__122__

ANALTSIS INFORMATION

COMMENT:

Date	Inst	File Name	Dilution Fact.
5/16	6	P6380	1
___	___	_____	___

Analyst 865 Date 5/16/86

RESULTS

Area of 50ng Phenanthrene 60593

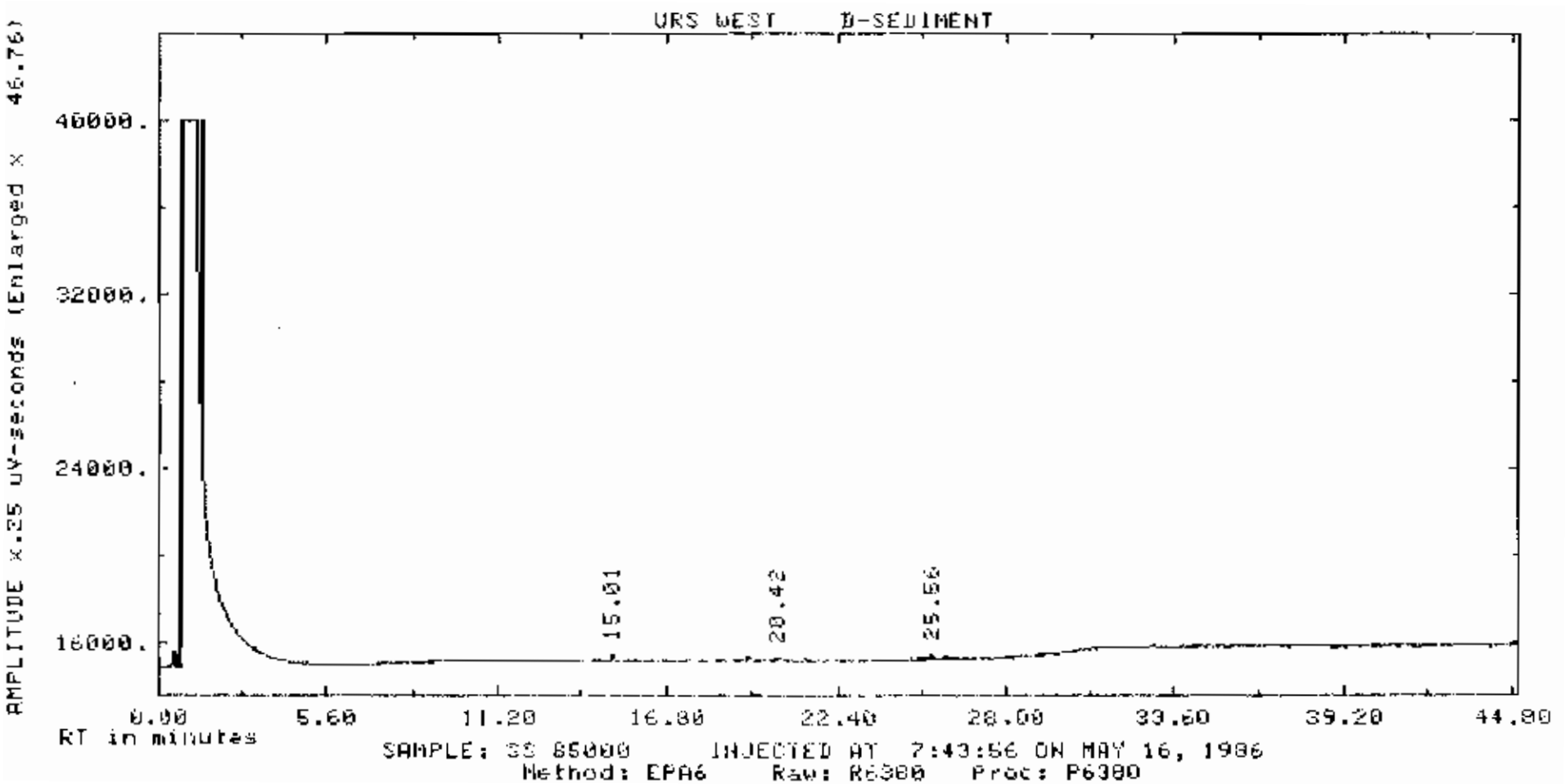
Area of Largest peak in sample 1315

Phenanthrene / Largest Peak = 46

[X] Ratio > 5.0 Analyze low level extract
Suggested dilution for GC/MS analysis 1:___ (up to 1:5)

[ ] Ratio < 5.0 Prepare medium level extract
Schedule Analysis code 380 and 384
Suggested dilution for GC/MS analysis 1:___

rev 9/15/84


URS WEST D-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 46.76)
40000.
32000.
24000.
16000.
15.01
20.42
25.56
0.00
5.60
11.20
16.80
22.40
28.00
33.60
39.20
44.80
RT in minutes
SAMPLE: SS 85000 INJECTED AT 7:43:56 ON MAY 16, 1986
Method: EPA6 Raw: R6300 Proc: P6300

Report: 90.00 Channel: 6 URS WEST D-SEDIMENT

Sample: SS 85000 Injected at 7:43.56 ON MAY 16, 1986

ZERO Method: EPA6 Seq: SEQ63 Subsq/Samp: 1/80 Btl: 60

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.250	.300	3.00	1000	

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	6	.30	5.0	100.00	NO

Actual run time: 45.004 minutes

RT	ITM	Factor	Area	AREA %	Name
15.01	0.00	.10000E+01	1315. BB	36.457	
20.42	0.00	.10000E+01	1288. BB	35.687	
25.56	0.00	.10000E+01	1005. BB	27.856	

Total Area = 3608. Total AREA % = 1005.063

Processed data file: P6380 Raw data file: R6380

III. SAMPLE DATA PACKAGE

3

CASE NO. URS WEST (Nampa)

SAMPLE NO. F-SEDIMENT = COMPUCHEM NO. 95002
Site No. 3

A. Sample data in increasing SMO Number order:

1. Copy of Sample Traffic Report
2. HSL Results — Organic Analysis Data Sheet (Form I)
3. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.
4. Raw Data — in order: VOA, BNA, Pesticide

1. Copy of Sample Traffic Report

2. HSL Results — Organic Analysis Data Sheets (Form I)

Sample Number
F-SEDIMENT

Organics Analysis Data Sheet

(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: GH0805002A18
Sample matrix: solid
Data Release
Authorized By: _____

Case: URS WEST
QC Report No: _____
Contract No: PLATINUM
Date Sample
Received: 05-12-86

Volatile Compounds
Concentration: low
Date extracted/prepared: 05-13-86
Date analyzed: 05-15-86
Conc/Dil Factor: 1.75 pH: 7.06
Percent moisture (not decanted): 43%

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	18.	U	10061-02-6	trans-1,3-Dichloropropene	8.8	U
74-83-9	Bromomethane	18.	U	79-01-6	Trichloroethene	8.8	U
75-01-4	Vinyl Chloride	18.	U	124-48-1	Dibromochloromethane	8.8	U
75-00-3	Chloroethane	18.	U	79-00-5	1,1,2-Trichloroethane	8.8	U
* 75-09-2	Methylene Chloride	36.		71-43-2	Benzene	8.8	U
67-64-1	Acetone	36.	B	10061-01-5	cis-1,3-Dichloropropene	8.8	U
75-15-0	Carbon Disulfide	8.8	U	110-75-8	2-Chloroethyl Vinyl Ether	18.	U
75-35-4	1,1-Dichloroethene	8.8	U	75-25-2	Bromoform	8.8	U
75-34-3	1,1-Dichloroethane	8.8	U	108-10-1	4-Methyl-2-pentanone	18.	U
156-60-5	trans-1,2-Dichloroethene	8.8	U	591-78-6	2-Hexanone	18.	U
67-66-3	Chloroform	8.8	U	127-18-4	Tetrachloroethene	8.8	U
107-06-2	1,2-Dichloroethane	8.8	U	79-34-5	1,1,2,2-Tetrachloroethane	8.8	U
78-93-3	2-Butanone	18.	U	108-88-3	Toluene	8.8	U
71-55-6	1,1,1-Trichloroethane	8.8	U	108-90-7	Chlorobenzene	8.8	U
56-23-5	Carbon Tetrachloride	8.8	U	100-41-4	Ethyl Benzene	8.8	U
108-05-4	Vinyl Acetate	18.	U	100-42-5	Styrene	8.8	U
75-27-4	Bromodichloromethane	8.8	U		Total Xylenes	8.8	U
78-87-5	1,2-Dichloropropane	8.8	U				

DATA REPORTING QUALIFIERS

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

Value If the result is a value greater than or equal to the detection limit then report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10ug and a concentration of 3ug is calculated, then report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: CompuChem
Case : URS WEST

Sample Number
F-SEDIMENT

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: low
Date extracted/prepared: 05-13-86
Date analyzed: 05-17-86
Conc/Dil Factor: 58.40
Percent moisture (decanted): 43%

GPC Cleanup: No
Separatory Funnel Extraction: Yes
Continuous Liquid - Liquid Extraction: No

CAS Number		ug/kg		CAS Number		ug/kg		
108-95-2	Phenol	120	J	83-32-9	Acenaphthene	580	U	
111-44-4	bis(2-Chloroethyl) ether	580	U	51-28-5	2,4-Dinitrophenol	2900	U	
95-57-8	2-Chlorophenol	580	U	100-02-7	4-Nitrophenol	2900	U	
541-73-1	1,3-Dichlorobenzene	580	U	132-64-9	Dibenzofuran	580	U	
106-46-7	1,4-Dichlorobenzene	580	U	121-14-2	2,4-Dinitrotoluene	580	U	
100-51-6	Benzyl Alcohol	580	U	606-20-2	2,6-Dinitrotoluene	580	U	
95-50-1	1,2-Dichlorobenzene	580	U	84-66-2	Diethylphthalate	580	U	
95-48-7	2-Methylphenol	580	U	7005-72-3	4-Chlorophenyl Phenyl ether	580	U	
39638-32-9	bis(2-Chloroisopropyl) ether	580	U	86-73-7	Fluorene	580	U	
106-44-5	4-Methylphenol	580	U	100-01-6	4-Nitroaniline	2900	U	
621-64-7	N-Nitroso-Dipropylamine	580	U	534-52-1	4,6-Dinitro-2-methylphenol	2900	U	
67-72-1	Hexachloroethane	580	U	86-30-6	N-nitrosodiphenylamine (1)	130	J	
98-95-3	Nitrobenzene	580	U	101-55-3	4-Bromophenyl Phenyl ether	580	U	
78-59-1	Isophorone	580	U	118-74-1	Hexachlorobenzene	580	U	
88-75-5	2-Nitrophenol	580	U	87-86-5	Pentachlorophenol	2900	U	
105-67-9	2,4-Dimethylphenol	580	U	85-01-8	Phenanthrene	580	U	
65-85-0	Benzoic Acid	2900	U	120-12-7	Anthracene	580	U	
111-91-1	bis(2-Chloroethoxy) methane	580	U	84-74-2	Di-n-butylphthalate	580	U	
120-83-2	2,4-Dichlorophenol	580	U	206-44-0	Fluoranthene	70.	J	
120-82-1	1,2,4-Trichlorobenzene	580	U	129-00-0	Pyrene	58.	J	
91-20-3	Naphthalene	580	U	85-68-7	Butyl Benzyl Phthalate	82.	J	
106-47-8	4-Chloroaniline	580	U	91-94-1	3,3'-Dichlorobenzidine	1200	U	
87-68-3	Hexachlorobutadiene	580	U	56-55-3	Benzo(a)anthracene	580	U	
59-50-7	4-Chloro-3-methylphenol	580	U	117-81-7	bis(2-ethylhexyl)phthalate	860		
91-57-6	2-Methylnaphthalene	580	U	218-01-9	Chrysene	580	U	
77-47-4	Hexachlorocyclopentadiene	580	U	117-84-0	Di-n-octyl Phthalate	580	U	
88-06-2	2,4,6-Trichlorophenol	580	U	205-99-2	Benzo(b)fluoranthene	580	U	
95-95-4	2,4,5-Trichlorophenol	2900	U	207-08-9	Benzo(k)fluoranthene	580	U	
91-58-7	2-Chloronaphthalene	580	U	50-32-8	Benzo(a)pyrene	580	U	
88-74-4	2-Nitroaniline	2900	U	193-39-5	Indeno(1,2,3-cd)pyrene	580	U	
131-11-3	Dimethyl Phthalate	580	U	53-70-3	Dibenz(a,h)anthracene	580	U	
208-96-8	Acenaphthylene	580	U	191-24-2	Benzo(g,h,i)perylene	580	U	
99-09-2	3-Nitroaniline	2900	U					

(1) Cannot be separated from diphenylamine

Sample Number
FSED

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: [Low] Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Data Analyzed: 05/16/86
Conc/Dil Factor: 1.72

CAS Number		ug/l or [ug/Kg] (Circle One)	
319-84-6	Alpha - BHC	14.	U
319-85-7	Beta - BHC	14.	U
319-86-8	Delta - BHC	14.	U
58-89-9	Gamma - BHC(Lindane)	14.	U
76-44-8	Heptachlor	14	U
309-00-2	Aldrin	14.	U
1024-57-3	Heptachlor Epoxide	14.	U
959-98-8	Endosulfan I	14.	U
60-57-1	Dieldrin	28.	U
72-55-9	4-4' - DDE	28.	U
72-20-8	Endrin	28.	U
33213-65-9	Endosulfan II	28.	U
72-54-8	4-4' - DDD	28.	U
1031-07-8	Endosulfan Sulfate	28.	U
50-29-3	4-4' - DDT	28.	U
72-43-5	Methoxychlor	140	U
53494-70-5	Endrin Ketone	28.	U
57-74-9	Chlordane	140	U
8001-35-2	Toxaphene	280	U
12674-11-2	Aroclor - 1016	140	U
11104-28-2	Aroclor - 1221	140	U
11141-16-5	Aroclor - 1232	140	U
53469-21-9	Aroclor - 1242	140	U
12672-29-6	Aroclor - 1248	1700	
11097-69-1	Aroclor - 1254	280	U
11096-82-5	Aroclor - 1260	280	U

V(i) = Volume of extract injected (ul)
V(s) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(s) _____ or W(s) 30.45 V(t) 2000.00 V(i) 5.0

Sample Number
FSED

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: [Low] Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Data Analyzed: 05/22/86
Conc/Dil Factor: 1.72

CAS Number		ug/l or [ug/Kg] (Circle One)	
~~319-84-6~~	Alpha - BHC	~~14.~~	~~U~~
319-85-7	Beta - BHC	14.	U
319-86-8	Delta - BHC	14.	U
58-89-9	Gamma - BHC(Lindane)	14	U
76-44-8	Heptachlor	14.	U
309-00-2	Aldrin	14.	U
1024-57-3	Heptachlor Epoxide	14.	U
959-98-8	Endosulfan I	14.	U
60-57-1	Dieldrin	28.	U
72-55-9	4-4' - DDE	28.	U
72-20-8	Endrin	28.	U
33213-65-9	Endosulfan II	28.	U
72-54-8	4-4' - DDD	28.	U
1031-07-8	Endosulfan Sulfate	28.	U
50-29-3	4-4' - DDT	28.	U
72-43-5	Methoxychlor	140	U
53494-70-5	Endrin Ketone	28.	U
57-74-9	Chlordane	140	U
~~8001-35-2~~	~~Toxaphene~~	~~280~~	~~U~~
12674-11-2	Aroclor - 1016	140	U
11104-28-2	Aroclor - 1221	140	U
11141-16-5	Aroclor - 1232	140	U
53469-21-9	Aroclor - 1242	140	U
12672-29-6	Aroclor - 1248	140	U
11097-69-1	Aroclor - 1254	280	U
11096-82-5	Aroclor - 1260	280	U

Reporte

V(i) = Volume of extract injected (ul)
V(s) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(s) _____ or W(s) 30.45 V(t) 2000.00 V(i) 1.0

9. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found; if so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found.")

Laboratory Name CompuChem Laboratories

Case No URS WEST

Sample Number F-SEDIMENT

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOLATILE COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SAMPLE NUMBER F-SEDIMENT

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

COMPUCHEM FILE GH085002A15

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	35633-99-3	PCB 1,1'-BIPHENYL, 2,2',5,5'-TETRACHLORO-	SEMI2	950	770 ~~440.~~	J
2	629-80-1	carbon HEXADECANAL	SEMI2	984	600 ~~340.~~	J
3	629-97-0	hydrocarbon DOCOSANE	SEMI2	1196	540 ~~310.~~	J
4	15714-12-2	carbon P-MENTH-8(10)-EN-9-OL, TRANS-	SEMI2	1265	330 ~~190.~~	J
5	74764-11-7	hydrocarbon IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLMETHYLENE)BEN	SEMI2	1296	1700 ~~980.~~	J
6	638-66-4	carbon OCTADECANAL	SEMI2	1316	890 ~~510.~~	J
7	3167-63-3	carbon PHOSPHONIC ACID, (CHLOROMETHYL)-, DIETHYL ESTER	SEMI2	1321	270 ~~150.~~	J
8	68654-81-9	hydrocarbon 9,19-CYCLOCHOLEST-24-EN-3-OL, 14-METHYL-, ACETATE, (	SEMI2	1345	320 ~~180.~~	J
9	74764-11-7	hydrocarbon IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLMETHYLENE)BEN	SEMI2	1438	460 ~~260.~~	J
10	3724-42-3	carbon 1H-3A,7-METHANOAZULENE, OCTAHYDRO-1,4,9,9-TETRAMETHY	SEMI2	1483	770 ~~430.~~	J
11	7742-88-3	carbon SILANE, [(2-CHLOROCYCLOHEXYL)OXY]TRIMETHYL-	SEMI2	1564	420 240.	J

~~33.400~~ 40.00

58.4

SPECTROSCOPIST _____

DATE 5/20/86

4. **Raw Data — in order: VOA, BNA, Pesticides**

a. **Reconstructed ion chromatogram(s) (GC/MS), chromatograms(s) (GC)**

b. **Data System Printout**

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)
- Calibration plots (area vs. Concentration) for 4,4'-DDT, 4,4'-DDD, 4,4'-DDE, or taxephene (where appropriate)

c. Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

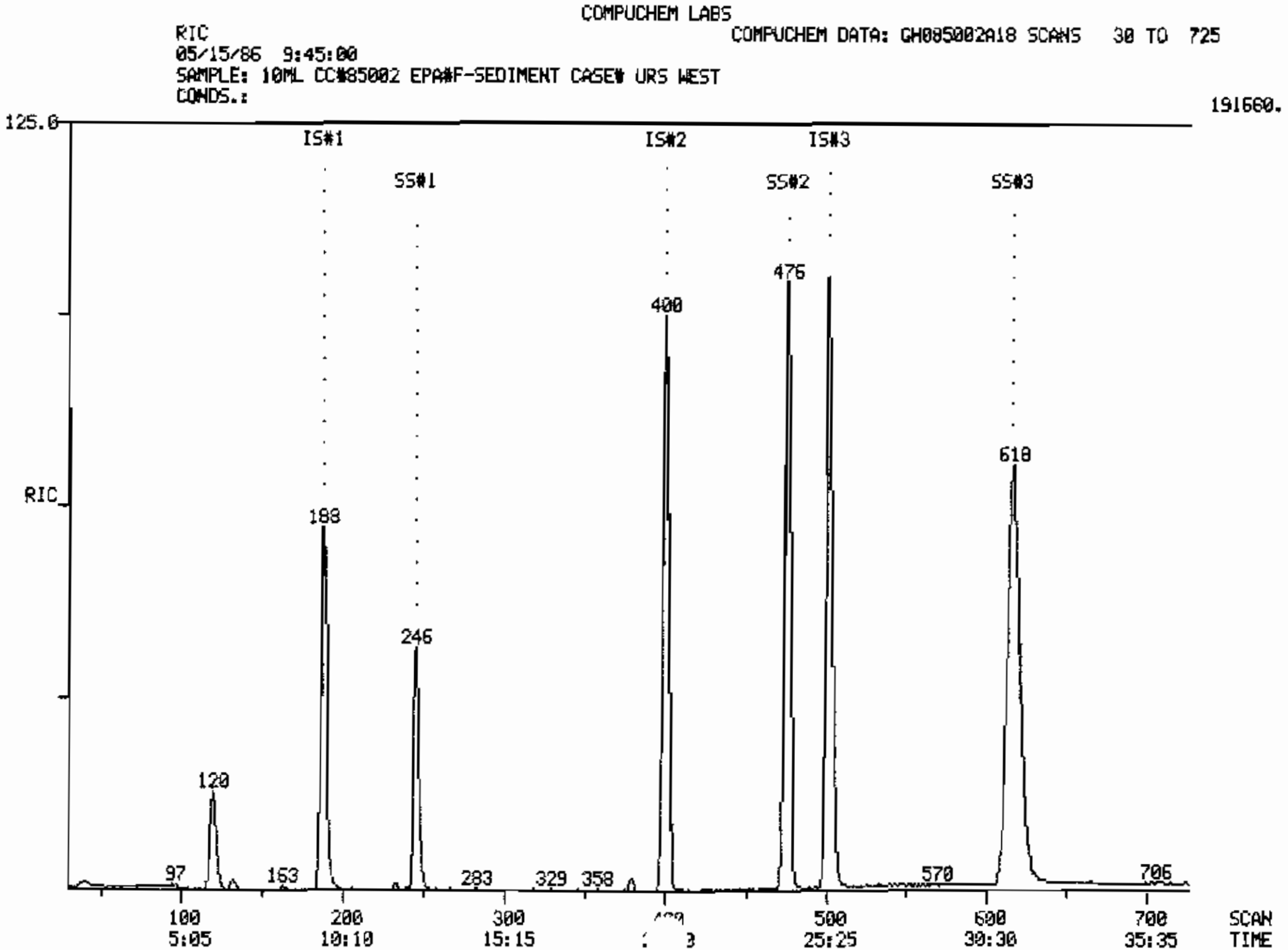
d. GC/MS library search spectra for Tentatively Identified Compounds (TIC)

e. Quantitation Calculation of tentative ID concentrations

f. Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g. Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GH085002A18 SCANS 30 TO 725
05/15/86 9:45:00
SAMPLE: 10ML CC#85002 EPA#F-SEDIMENT CASE# URS WEST
CONDS.:
191660.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
476
400
618
RIC
188
246
120
97
153
283
329
358
570
706
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: E238 FILENAME: GH085D02A1B DATE: 05/15/86
SHIFT STD: GS860515C1B TIME: 9:45

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1	57456.	68161.	-16.	PASS
*248 1,4-DIFLUDROBENZENE (IS) <540-36-3> E6#1	231241.	277912.	-17.	PASS
*270 D5-CHLOROBENZENE (IS)	226152.	268284.	-16.	PASS

QUANTITATION REPORT FILE: GH085002A18

DATA: GH085002A18.TI
05/15/86 9:45:00
SAMPLE: 10ML CC#85002 EPA#F-SEDIMENT CASE# URS WEST
NDS.:
SUBMITTED BY: 18 ANALYST: B19

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

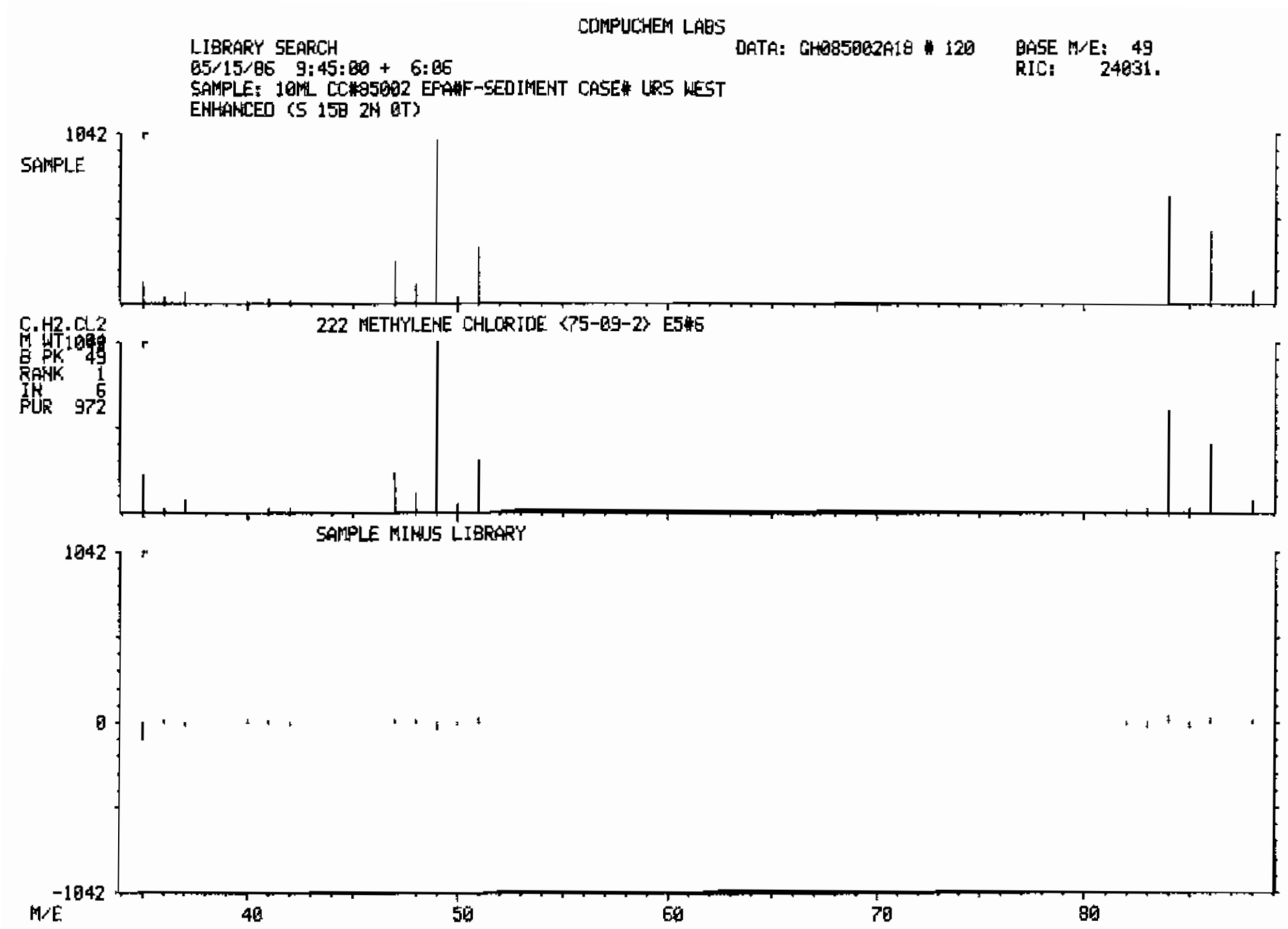
NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1
2	221 CHLOROMETHANE <75-01-4> E5#2
3	220 BROMOMETHANE <78-83-9> E5#3
4	231 VINYL CHLORIDE <75-01-4> E5#4
5	209 CHLOROETHANE <75-00-3> E5#5
6	222 METHYLENE CHLORIDE <75-09-2> E5#6
7	252 ACETONE (2-PROPANONE) <67-64-1> E5#7
8	254 CARBON DISULFIDE <75-15-0> E5#8
9	216 1,1-DICHLOROETHYLENE <75-35-4> E5#9
10	214 1,1-DICHLOROETHANE <75-34-3> E5#10
11	226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E5#11
12	211 CHLOROFORM <67-66-3> E5#12
13	215 1,2-DICHLOROETHANE <107-06-2> E5#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E6#1
15	253 2-BUTANONE <78-93-3> E6#2
16	227 1,1,1-TRICHLOROETHANE <71-55-6> E6#3
17	206 CARBON TETRACHLORIDE <56-23-5>
18	257 VINYL ACETATE <108-05-4> E6#5
19	212 BROMODICHLOROMETHANE <75-27-4> E6#6
0	217 1,2-DICHLOROPROPANE <78-87-5> E6#7
21	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E6#8
22	229 TRICHLOROETHYLENE <79-01-6> E6#9
23	208 CHLORODIBROMOMETHANE <124-48-1> E6#10
24	228 1,1,2-TRICHLOROETHANE <79-00-5> E6#11
25	203 BENZENE <71-43-2> E6#12
26	218 CIS-1,3-DICHLOROPROPENE <10061-01-5> E6#13
27	210 2-CHLOROETHYL VINYL ETHER <110-75-8> E6#14
28	205 BROMOFORM <75-25-2> E6#15
29	*270 D5-CHLOROBENZENE (IS)
30	256 4-METHYL-2-PENTANONE <108-10-1> E7#2
31	255 2-HEXANONE <591-70-6> E7#3
32	224 TETRACHLOROETHENE <127-18-4> E7#4
33	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E7#5
34	225 TOLUENE <108-88-3> E7#6
35	207 CHLOROBENZENE <108-90-7> E7#7
36	219 ETHYLBENZENE <100-41-4> E7#8
37	251 STYRENE <100-42-5> E7#9
38	240 M-XYLENE E7#10
39	271 O,P-XYLENE E7#11
40	#258 D4-1,2-DICHLOROETHANE E8#2
41	#247 BROMOFLUOROBENZENE <460-00-4> E8#3
42	#233 D8-TOLUENE E8#4

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	188	9:33	1	1.000	A BB	57486.	50.000 UG/KG	14.77
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	120	6:06	1	0.638	A BB	22004.	20.799	UG/KG	6.14
7	43	132	6:43	1	0.702	A BB	7236.	17.445	UG/KG	5.15
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	233	11:51	1	1.239	A BB	3115.	1.189	UG/KG	0.35
13	62	NOT FOUND								
14	114	400	20:20	14	1.000	A BB	231241.	50.000	UG/KG	14.77
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	NOT FOUND								
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	502	25:31	29	1.000	A BB	226152.	50.000	UG/KG	14.77
30	43	NOT FOUND								
31	43	NOT FOUND								
32	164	NOT FOUND								
33	83	NOT FOUND								
34	92	NOT FOUND								
35	112	NOT FOUND								
36	106	NOT FOUND								
37	104	NOT FOUND								
38	106	NOT FOUND								
39	106	NOT FOUND								
40	65	246	12:30	1	1.309	A BB	87931.	49.797	UG/KG	14.71
41	95	617	31:22	29	1.229	A BB	184862.	49.471	UG/KG	14.61
42	98	476	24:12	1	2.532	A BB	218583.	49.867	UG/KG	14.73

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:43	0.98	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:41		10.000			50.00		0.925	
3	2:36		10.000			50.00		1.296	
4	3:15		10.000			50.00		0.885	
5	4:10		10.000			50.00		0.489	
6	6:15	0.98	5.000	0.13	20.80	50.00	0.383	0.920	0.42
7	6:55	0.97	10.000	0.07	17.44	50.00	0.126	0.361	0.35
8	7:56		5.000			50.00		1.773	
9	9:12		5.000			50.00		0.973	
10	10:34		5.000			50.00		1.597	
11	11:17		5.000			50.00		1.088	
12	11:54	1.00	5.000	0.25	1.19	50.00	0.054	2.278	0.02
13	12:39		5.000			50.00		1.678	
14	20:20	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

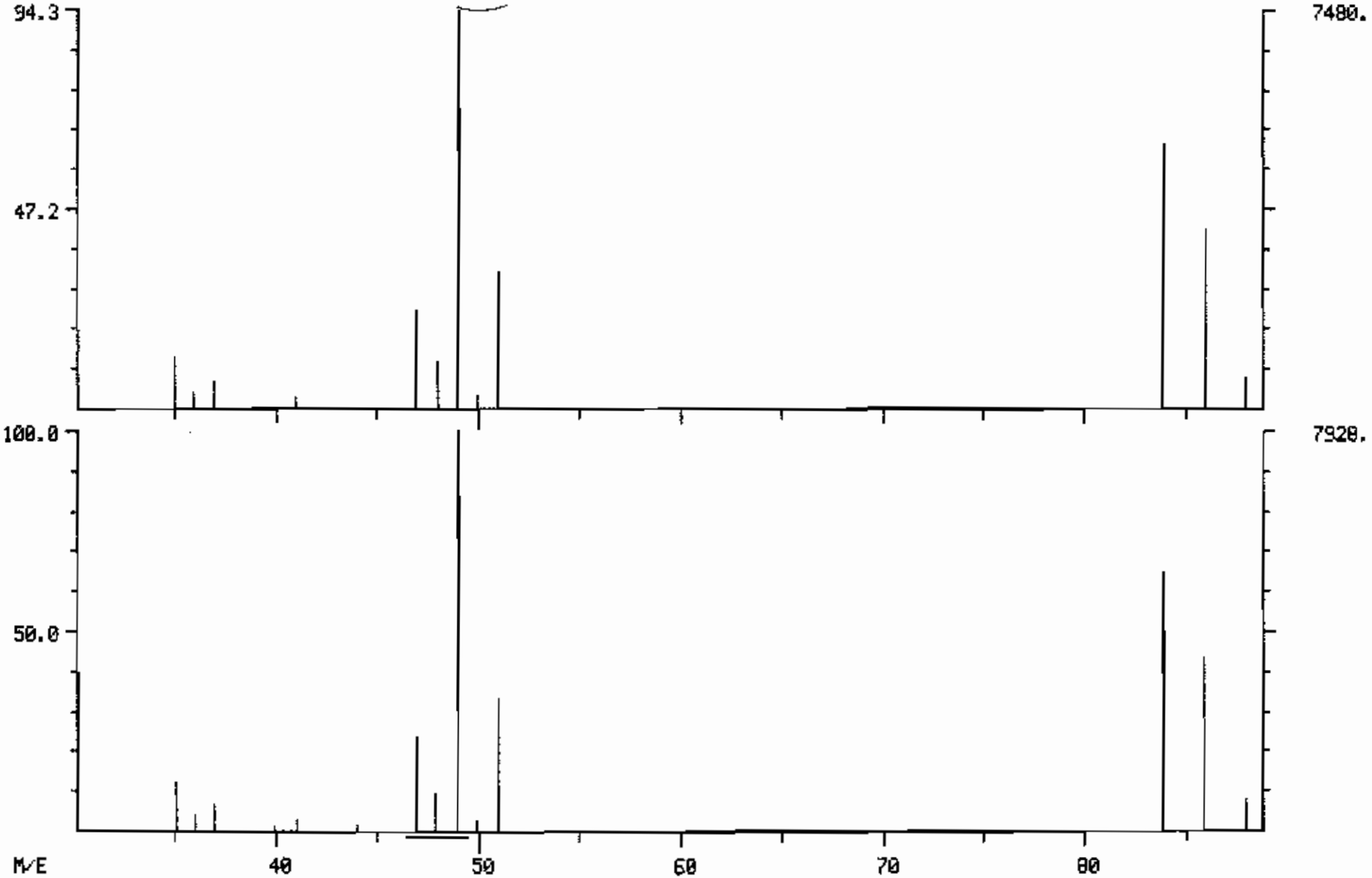
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:33		10.000			50.00		0.029	
16	13:59		5.000			50.00		0.504	
17	14:23		5.000			50.00		0.671	
3	14:32		10.000			50.00		0.289	
19	14:57		5.000			50.00		0.577	
20	16:19		5.000			50.00		0.282	
21	16:37		5.000			50.00		0.441	
22	17:11		5.000			50.00		0.477	
23	17:47		5.000			50.00		0.684	
24	17:54		5.000			50.00		0.331	
25	17:41		5.000			50.00		0.696	
26	17:57		5.000			50.00		0.331	
27	19:01		10.000			50.00		0.211	
28	20:35		5.000			50.00		0.551	
29	25:31	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:06		10.000			50.00		0.444	
31	22:40		10.000			50.00		0.328	
32	23:02		5.000			50.00		0.492	
33	22:56		5.000			50.00		0.623	
34	24:21		5.000			50.00		0.563	
35	25:37		5.000			50.00		0.904	
36	28:07		5.000			50.00		0.447	
37	33:21		5.000			50.00		0.753	
38	33:48		5.000			50.00		0.485	
39	35:11		5.000			100.00		0.450	
40	12:33	1.00	10.000	0.13	49.80	50.00	1.530	1.536	1.00
41	31:25	1.00	10.000	0.12	49.47	50.00	0.817	0.826	0.99
42	24:12	1.00	10.000	0.25	49.87	50.00	3.802	3.812	1.00


COMPUCHEM LABS
LIBRARY SEARCH
05/15/86 9:45:00 + 6:06
DATA: GH085002A18 # 120
BASE M/E: 49
RIC: 24031.
SAMPLE: 10ML CC#85002 EPA#F-SEDIMENT CASE# URS WEST
ENHANCED (S 15B 2N 0T)
1042
SAMPLE
C.H2.CL2
222 METHYLENE CHLORIDE (75-09-2) E5#6
WT 1000
PK 49
RANK 1
IN 6
PUR 972
SAMPLE MINUS LIBRARY
1042
0
-1042
M/E
40
50
60
70
80

COMPUCHEM LABS

DUAL MASS SPECTRUM
05/15/86 9:45:00 + 6:06
SAMPLE: 10ML CC#85002 EPA#F-SEDIMENT CASE# URS WEST
ENHANCED (S 15B 2N) 222 METHYLENE CHLORIDE (75-09-2) E5#6

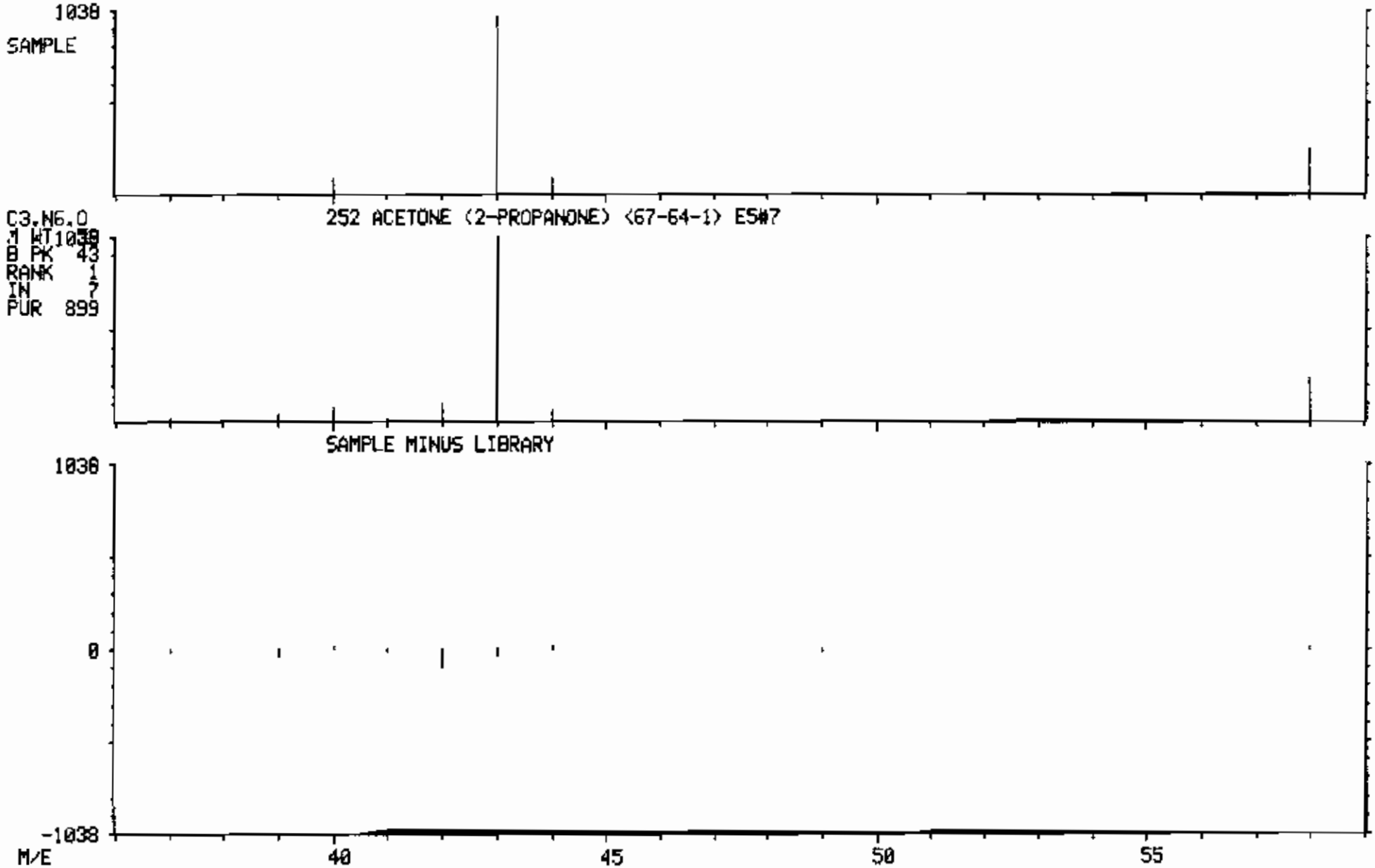
DATA: GH085002A18 #120 BASE M/E: 49/ 49
RIC: 24031./ 24959.



COMPUCHEM LABS

LIBRARY SEARCH
05/15/86 9:45:00 + 6:43
SAMPLE: 10ML CC#05002 EPA#F-SEDIMENT CASE# URS WEST
ENHANCED (S 15B 2N 0T)

DATA: GH085002A10 # 132
BASE M/E: 43
RIC: 2519.

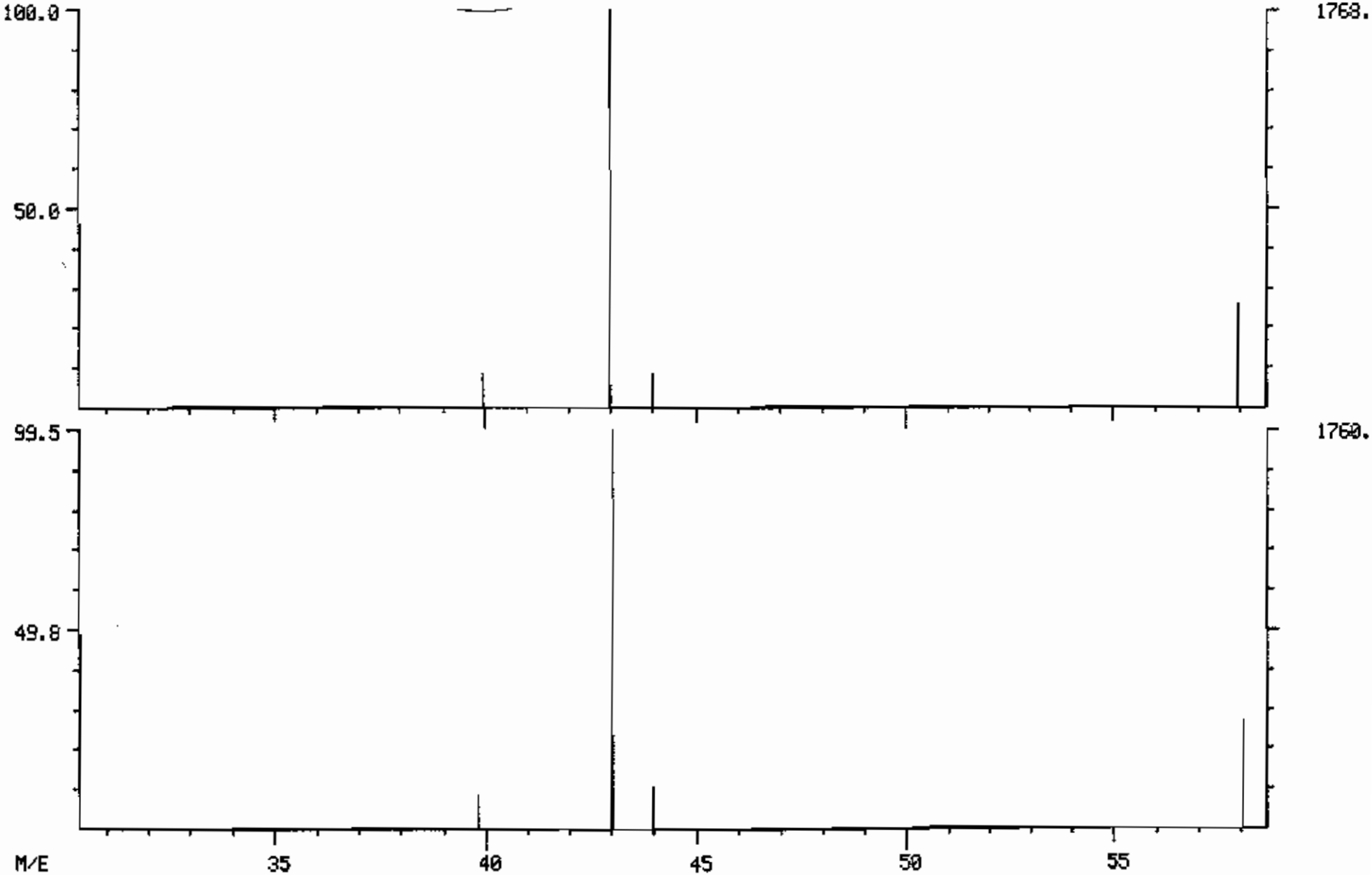


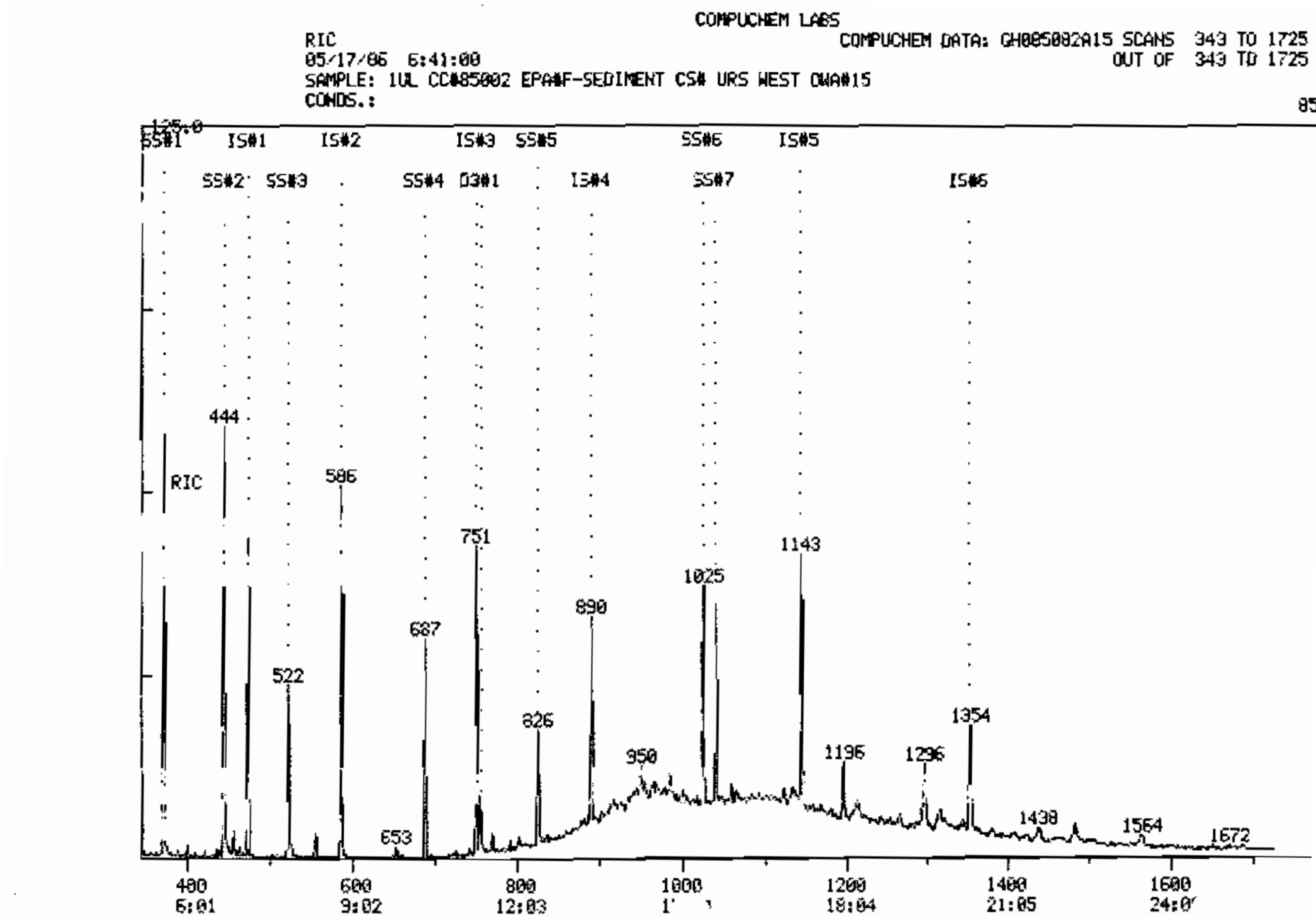
COMPUCHEM LABS

DUAL MASS SPECTRUM
05/15/86 9:45:00 + 6:43
SAMPLE: 10ML CC#85002 EPA#F-SEDIMENT CASE# URS WEST
ENHANCED (5 15B 2N)

DATA: GH085002A18 #132
252 ACETONE (2-PROPANONE) (67-64-1) E5#7

BASE M/E: 43/ 43
RIC: 2519./ 2563.




COMPUCHEM LABS
RIC
05/17/05 6:41:00
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST GWA#15
CONDS.:
COMPUCHEM DATA: GH085002A15 SCANS 343 TO 1725
OUT OF 343 TO 1725
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
D3#1
IS#4
SS#7
IS#6
RIC
444
586
751
1143
1025
890
687
522
826
950
1354
1196
1296
1438
1564
1672
653
400
6:01
600
9:02
800
12:03
1000
1200
18:04
1400
21:05
1600
24:0

INTERNAL STANDARD AREA MONITOR

METHOD: SEMI2 FILENAME: GH085002A15 DATE: 05/17/86
SHIFT STD: HQ860516B15 TIME: 6:41

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLORODENZENE (IS#1)	74732.	56576.	32.	PASS
*460 D8-NAPHTHALENE (IS#2)	285992.	222968.	20.	PASS
*495 D10-ACENAPHTHENE (IS#3)	117612.	92712.	27.	PASS
*467 D10-PHENANTHRENE (IS#4)	146552.	117188.	25.	PASS
*459 D12-CHRYSENE (IS#5)	131512.	100736.	31.	PASS
*497 D12-PERYLENE (IS#6)	137652.	106208.	30.	PASS

'UANTITATION REPORT FILE: GH085002A15

DATA: GH085002A15.TI
05/17/86 6:41:00
SAMPLE: 1UL CC#85002 EPA#P-SEDIMENT CS# URS WEST OWA#15
CONDS.:
SUBMITTED BY: 19 ANALYST: 876

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

NO	NAME
1	*494 D4-1,4-DICHLOROBENZENE (IS#1)
2	610 PHENOL (G1#3) <108-95-2>
3	411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
4	601 2-CHLOROPHENOL (G1#6) <95-57-8>
5	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
6	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
7	474 BENZYL ALCOHOL (G1#9) <100-51-6>
8	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
9	620 2-METHYLPHENOL (G1#11) <95-48-7>
10	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
11	622 4-METHYLPHENOL (G1#13) <106-44-5>
12	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
13	436 HEXACHLOROETHANE (G1#15) <67-72-1>
14	440 NITROBENZENE (G1#16) <98-95-3>
15	*460 D8-NAPHTHALENE (IS#2)
16	438 ISOPHORONE (G2#2) <78-59-1>
17	606 2-NITROPHENOL (G2#3) <88-75-5>
18	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
19	625 BENZOIC ACID (G2#5) <65-85-0>
20	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
21	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
22	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
23	439 NAPHTHALENE (G2#9) <91-20-3>
24	475 4-CHLOROANILINE (G2#10) <106-47-8>
25	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
26	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
27	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
28	*495 D10-ACENAPHTHENE (IS#3)
29	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
30	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
31	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
32	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
33	478 2-NITROANILINE (G3#6) <88-74-4>
34	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
35	402 ACENAPHTHYLENE (G3#8) <208-96-8>
36	479 3-NITROANILINE (G3#9) <99-09-2>
37	401 ACENAPHTHENE (G3#10) <83-32-9>
38	@605 2,4-DINITROPHENOL (G3#11) <51-28-5>
39	607 4-NITROPHENOL (G3#12) <100-02-7>
40	476 DIBENZOFURAN (G3#13) <132-64-9>
41	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
42	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
43	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
44	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
45	432 FLUORENE (G3#18) <86-73-7>
46	480 4-NITROANILINE (G3#19) <100-01-6>

46	NAME
47	#467 D10-PHENANTHRENE (IS#4)
48	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
49	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
50	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
51	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
52	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
53	444 PHENANTHRENE (G4#7) <85-01-8>
54	403 ANTHRACENE (G4#8) <120-12-7>
55	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
56	431 FLUORANTHENE (G4#10) <206-44-0>
57	#459 D12-CHRYSENE (IS#5)
58	445 PYRENE (G5#3) <129-00-0>
59	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
60	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
61	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
62	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
63	418 CHRYSENE (G5#8) <218-01-9>
64	#497 D12-PERYLENE (IS#6)
65	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
66	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
67	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
68	406 BENZO(A)PYRENE (G6#5) <50-32-8>
69	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
70	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
71	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
72	#619 2-FLUOROPHENOL (SS#1)
73	#612 D5-PHENOL (SS#2)
74	#447 D5-NITROBENZENE (SS#3)
75	#448 2-FLUOROBIPHENYL (SS#4)
76	#628 2,4,6-TRIBROMOPHENOL (SS#5)
77	#496 D14-TERPHENYL (SS#6)
78	#471 D10-PYRENE
79	456 1,2,3,4-TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	473	7:07	1	1.000	A BB	74732.	40.000 NG	6.68
2	94	445	6:42	1	0.941	A BB	10636.	2.091 NG	0.35
3	93	NOT FOUND							
4	128	NOT FOUND							
5	146	NOT FOUND							
6	146	NOT FOUND							
7	108	NOT FOUND							
8	146	NOT FOUND							
9	105	NOT FOUND							
10	45	NOT FOUND							
11	108	NOT FOUND							
12	70	NOT FOUND							
13	117	NOT FOUND							
14	77	NOT FOUND							
15	136	586	8:50	15	1.000	A BB	285592.	40.000 NG	6.68
16	82	NOT FOUND							
17	139	NOT FOUND							
18	122	NOT FOUND							
19	122	NOT FOUND							
20	93	NOT FOUND							
21	162	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
22	180	NOT FOUND							
23	128	NOT FOUND							
24	127	NOT FOUND							
25	225	NOT FOUND							
26	107	NOT FOUND							
27	142	NOT FOUND							
28	164	751	11:19	28	1.000	A BB	117612.	40.000 NG	6.68
29	237	NOT FOUND							
30	196	NOT FOUND							
31	196	NOT FOUND							
32	162	NOT FOUND							
33	65	NOT FOUND							
34	163	NOT FOUND							
35	152	NOT FOUND							
36	138	NOT FOUND							
37	153	NOT FOUND							
38	184	NOT FOUND							
39	139	NOT FOUND							
40	168	NOT FOUND							
41	89	NOT FOUND							
42	165	NOT FOUND							
43	149	NOT FOUND							
44	204	NOT FOUND							
45	166	NOT FOUND							
46	138	NOT FOUND							
47	188	889	13:23	47	1.000	A VB	146552.	40.000 NG	6.68
48	198	NOT FOUND							
49	169	811	12:13	47	0.912	A*VB	5880.	2.316 NG	0.39
50	248	NOT FOUND							
51	284	NOT FOUND							
52	266	NOT FOUND							
53	178	NOT FOUND							
54	178	NOT FOUND							
55	149	NOT FOUND							
56	202	1005	15:08	47	1.130	A BB	5864.	1.225 NG	0.20
57	240	1143	17:13	57	1.000	A BV	131512.	40.000 NG	6.68
58	202	1026	15:27	57	0.898	A BB	5368.	1.056 NG	0.18
59	149	1087	16:22	57	0.951	A BB	3545.	1.369 NG	0.23
60	252	NOT FOUND							
61	228	NOT FOUND							
62	149	1144	17:14	57	1.001	A BB	60114.	14.681 NG	2.45
63	228	NOT FOUND							
64	264	1353	20:23	64	1.000	A BV	137652.	40.000 NG	6.68
65	149	NOT FOUND							
66	252	NOT FOUND							
67	252	NOT FOUND							
68	252	NOT FOUND							
69	276	NOT FOUND							
70	278	NOT FOUND							
71	276	NOT FOUND							
72	112	372	5:36	1	0.786	A BV	217808.	69.334 NG	11.58
73	99	444	6:41	1	0.939	A BV	298308.	69.602 NG	11.63
74	82	522	7:52	15	0.891	A BB	126660.	36.253 NG	6.06
75	172	687	10:21	28	0.915	A BV	137680.	35.374 NG	5.91
76	141	826	12:26	28	1.100	A BV	15348.	62.441 NG	10.43
77	244	1040	15:40	57	0.910	A BV	98312.	31.255 NG	5.22

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
78	212	1025	15:26	57	0.897	A BV	128776.	31.514	NG	5.27
79	216	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:08	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	6:43	1.00	10.000	0.09	2.09	50.00	0.114	2.726	0.04
3	6:49		10.000			50.00		2.193	
4	6:55		10.000			50.00		1.568	
5	7:06		10.000			50.00		1.671	
6	7:10		10.000			50.00		1.669	
7	7:19		10.000			50.00		0.880	
8	7:25		10.000			50.00		1.553	
9	7:29		10.000			50.00		1.510	
10	7:33		10.000			50.00		2.852	
11	7:40		10.000			50.00		1.563	
12	7:43		10.000			50.00		1.536	
13	7:49		10.000			50.00		0.787	
14	7:54		10.000			50.00		2.151	
15	8:50	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
16	8:13		10.000			50.00		0.998	
17	8:20		10.000			50.00		0.201	
18	8:22		10.000			50.00		0.356	
19	8:30		50.000			50.00		0.178	
20	8:31		10.000			50.00		0.497	
21	8:39		10.000			50.00		0.233	
22	8:47		10.000			50.00		0.284	
23	8:52		10.000			50.00		1.046	
24	8:57		10.000			50.00		0.427	
25	9:07		10.000			50.00		0.156	
26	9:36		10.000			50.00		0.476	
27	9:49		10.000			50.00		0.618	
28	11:19	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
29	10:08		10.000			50.00		0.332	
30	10:17		10.000			100.00		0.334	
31	10:17		50.000			100.00		0.334	
32	10:30		10.000			50.00		1.280	
33	10:40		50.000			50.00		0.475	
34	10:57		10.000			50.00		1.433	
35	11:06		10.000			50.00		2.055	
36	11:14		50.000			50.00		0.353	
37	11:21		10.000			50.00		1.320	
38	11:23		50.000			50.00		0.110	
39	11:27		50.000			50.00		0.238	
40	11:35		10.000			50.00		1.659	
41	11:36		10.000			50.00		0.472	
42	11:02		10.000			50.00		0.289	
43	11:57		10.000			50.00		1.476	
44	12:03		10.000			50.00		0.551	
45	12:04		10.000			50.00		1.285	
46	12:06		50.000			50.00		0.319	
47	13:23	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
48	12:10		50.000			50.00		0.117	
49	12:13	1.00	10.000	0.09	2.32	50.00	0.032	0.693	0.05
50	12:44		10.000			50.00		0.261	
51	12:57		10.000			50.00		0.400	
52	13:12		50.000			50.00		0.177	

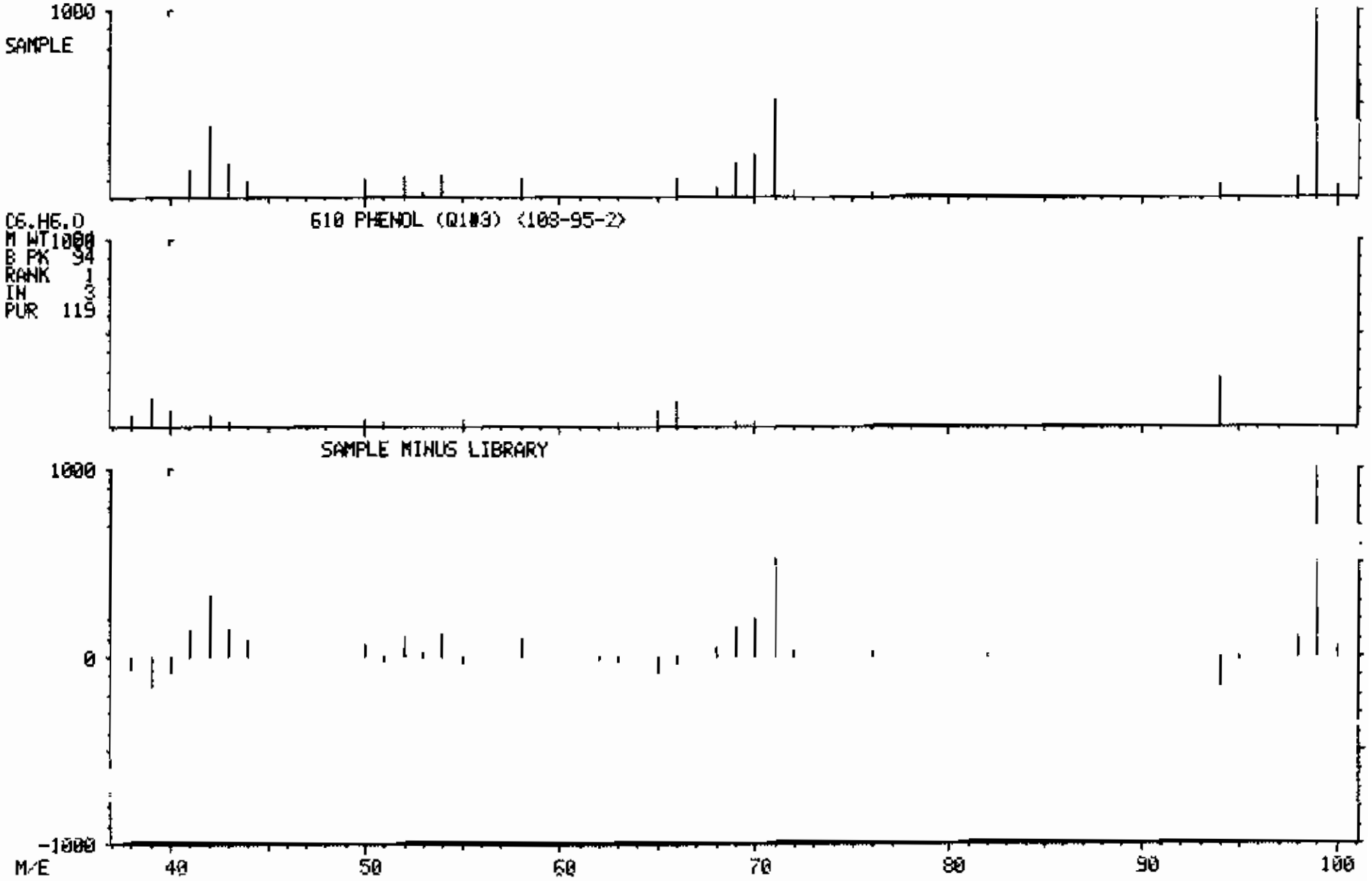
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
53	13:25		10.000			50.00		1.401	
54	13:29		10.000			50.00		1.106	
55	14:13		10.000			50.00		1.834	
56	15:06	1.00	10.000	0.11	1.23	50.00	0.032	1.306	0.02
57	17:09	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
58	15:25	1.00	10.000	0.09	1.06	50.00	0.033	1.546	0.02
59	16:19	1.00	10.000	0.10	1.37	50.00	0.022	0.788	0.03
60	17:04		20.000			50.00		0.449	
61	17:07		10.000			50.00		1.356	
62	17:10	1.00	10.000	0.10	14.68	50.00	0.366	1.245	0.29
63	17:12		10.000			50.00		1.238	
64	20:15	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
65	18:16		10.000			50.00		1.938	
66	19:16		10.000			50.00		1.359	
67	19:20		10.000			50.00		0.884	
68	20:07		10.000			50.00		1.177	
69	23:59		10.000			50.00		1.401	
70	24:03		10.000			50.00		1.121	
71	25:06		10.000			50.00		1.151	
72	5:37	1.00	0.742	1.06	69.33	50.00	2.332	1.681	1.39
73	6:42	1.00	0.948	0.99	69.60	50.00	3.193	2.294	1.39
74	7:53	1.00	0.875	1.02	36.25	50.00	0.355	0.489	0.73
75	10:21	1.00	0.906	1.01	35.37	50.00	0.937	1.324	0.71
76	12:25	1.00	1.118	0.98	62.44	50.00	0.104	0.084	1.25
77	15:37	1.00	0.907	1.00	31.26	50.00	0.598	0.957	0.63
78	15:24	1.00	10.000	0.09	31.51	50.00	0.783	1.243	0.63
79	10:31		1.000			50.00		0.224	

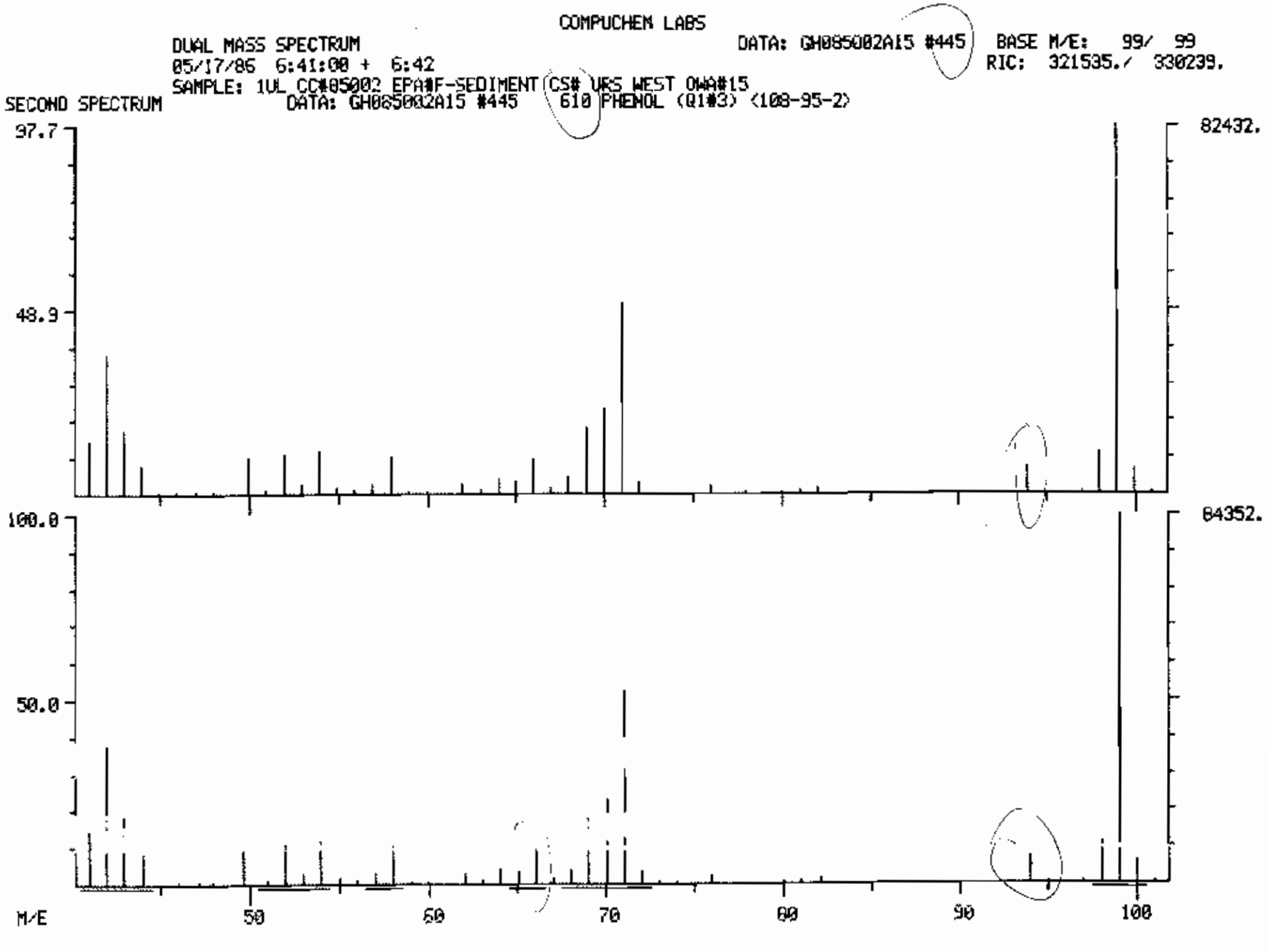
COMPUCHEM LABS

LIBRARY SEARCH
05/17/86 6:41:00 + 6:42
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST OWA#15

DATA: GH085002A15 # 445
ENHANCED (100 2N 0T)

BASE M/E: 99
RIC: 297983.



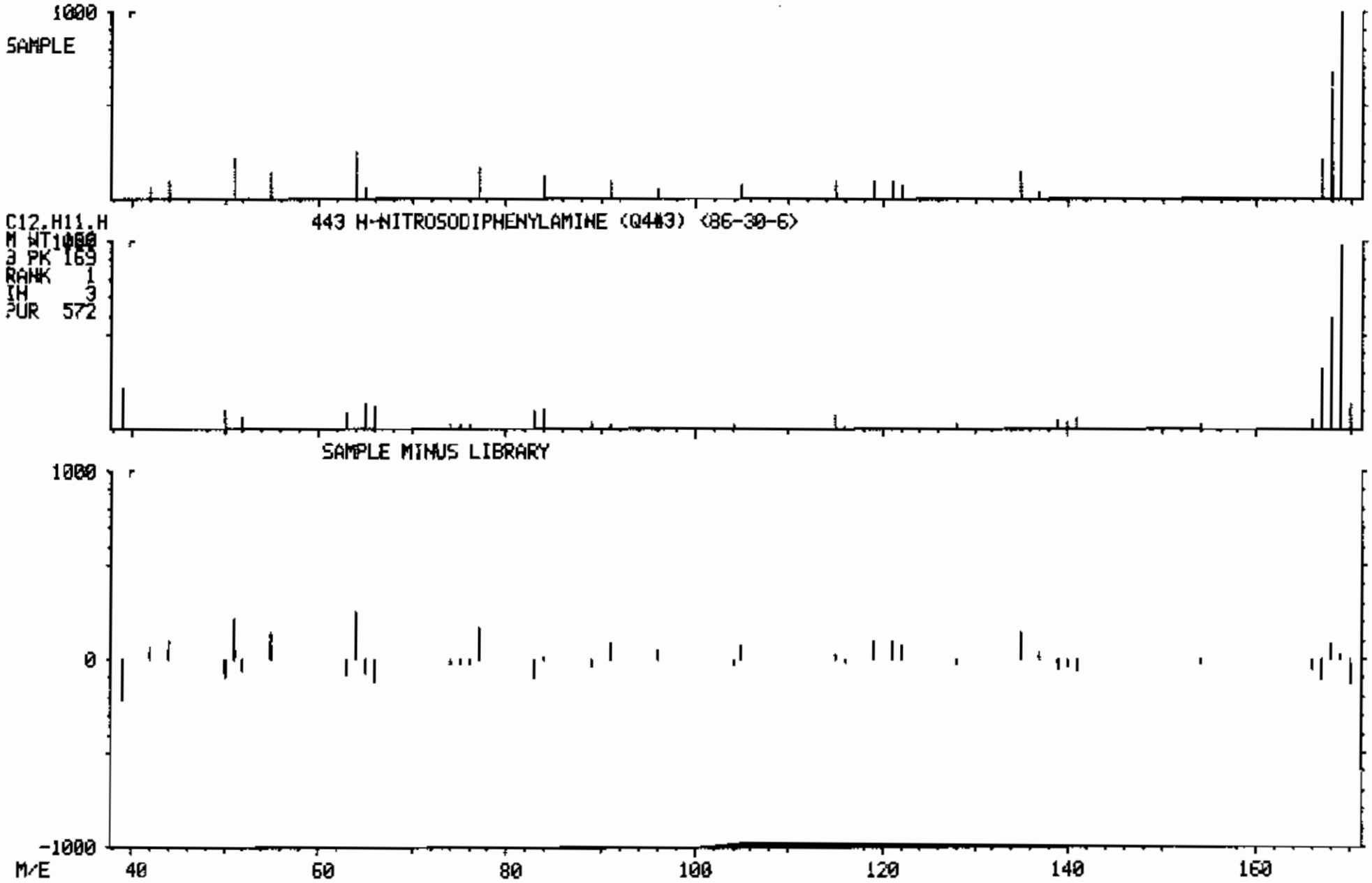

COMPUCHEM LABS
DUAL MASS SPECTRUM
DATA: GH085002A15 #445
BASE M/E: 99/ 99
RIC: 321535./ 330239.
05/17/86 6:41:00 + 6:42
SAMPLE: 1UL CC#05002 EPA#F-SEDIMENT CS# URS WEST 0WA#15
SECOND SPECTRUM
DATA: GH085002A15 #445 610 PHENOL (Q1#3) (108-95-2)
97.7
48.9
82432.
100.0
50.0
84352.
M/E
50
60
70
80
90
100

COMPUCHEM LABS

LIBRARY SEARCH
05/17/86 6:41:00 + 12:13
SAMPLE: 1UL CC#05002 EPA#F-SEDIMENT CS# URS WEST OWA#15

DATA: GH005002A15 # 811
ENHANCED (10B 2H 0T)

BASE M/E: 169
RIC: 4927.

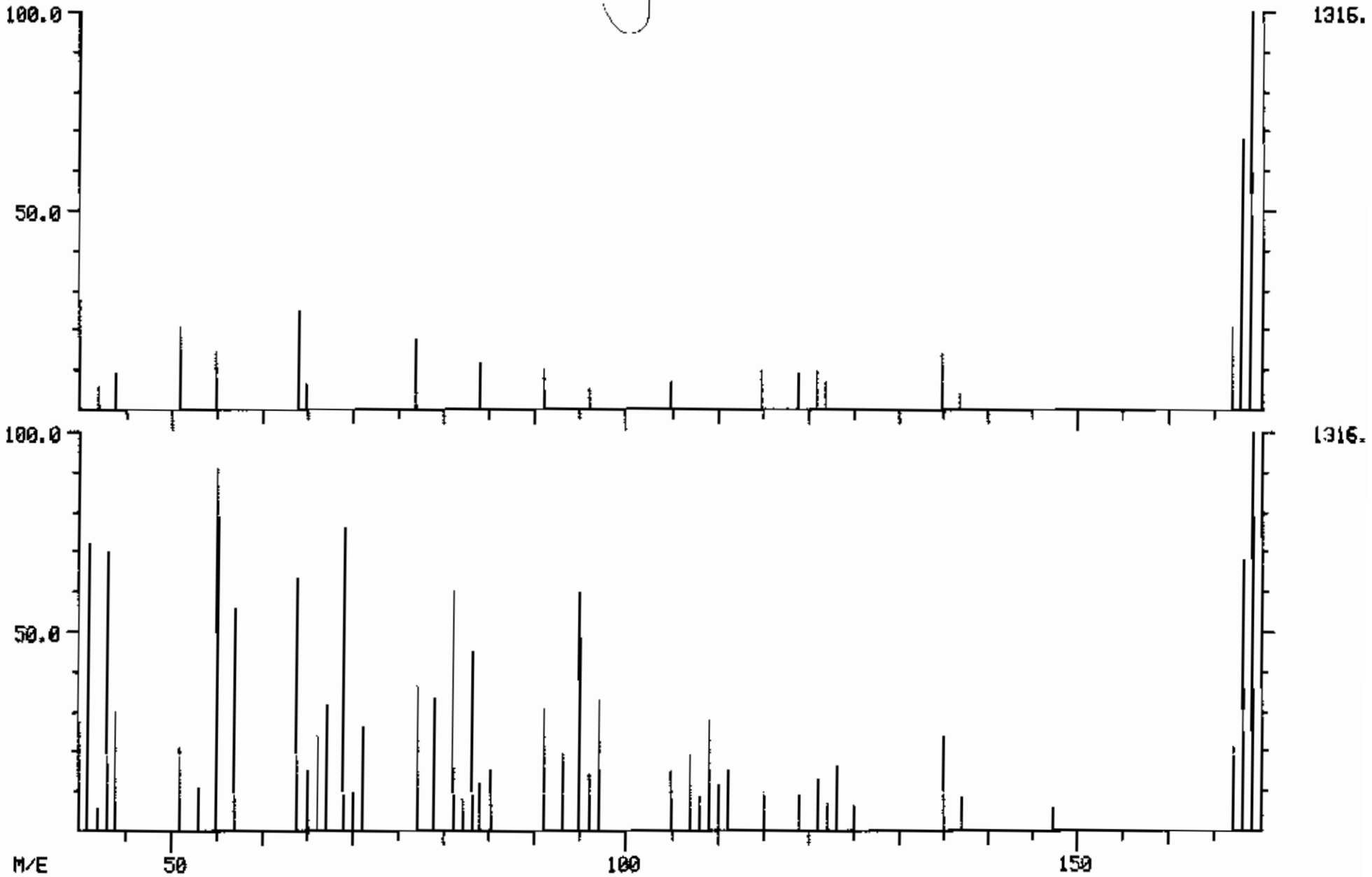


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/17/86 6:41:00 + 12:13
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST OWA#15

DATA: GH085002A15 #811 BASE M/E: 169/ 169
RIC: 4927./ 17791.

SECOND SPECTRUM DATA: GH085002A15 #811 :443 N-NITROSODIPHENYLAMINE (Q4#3) (86-30-6)

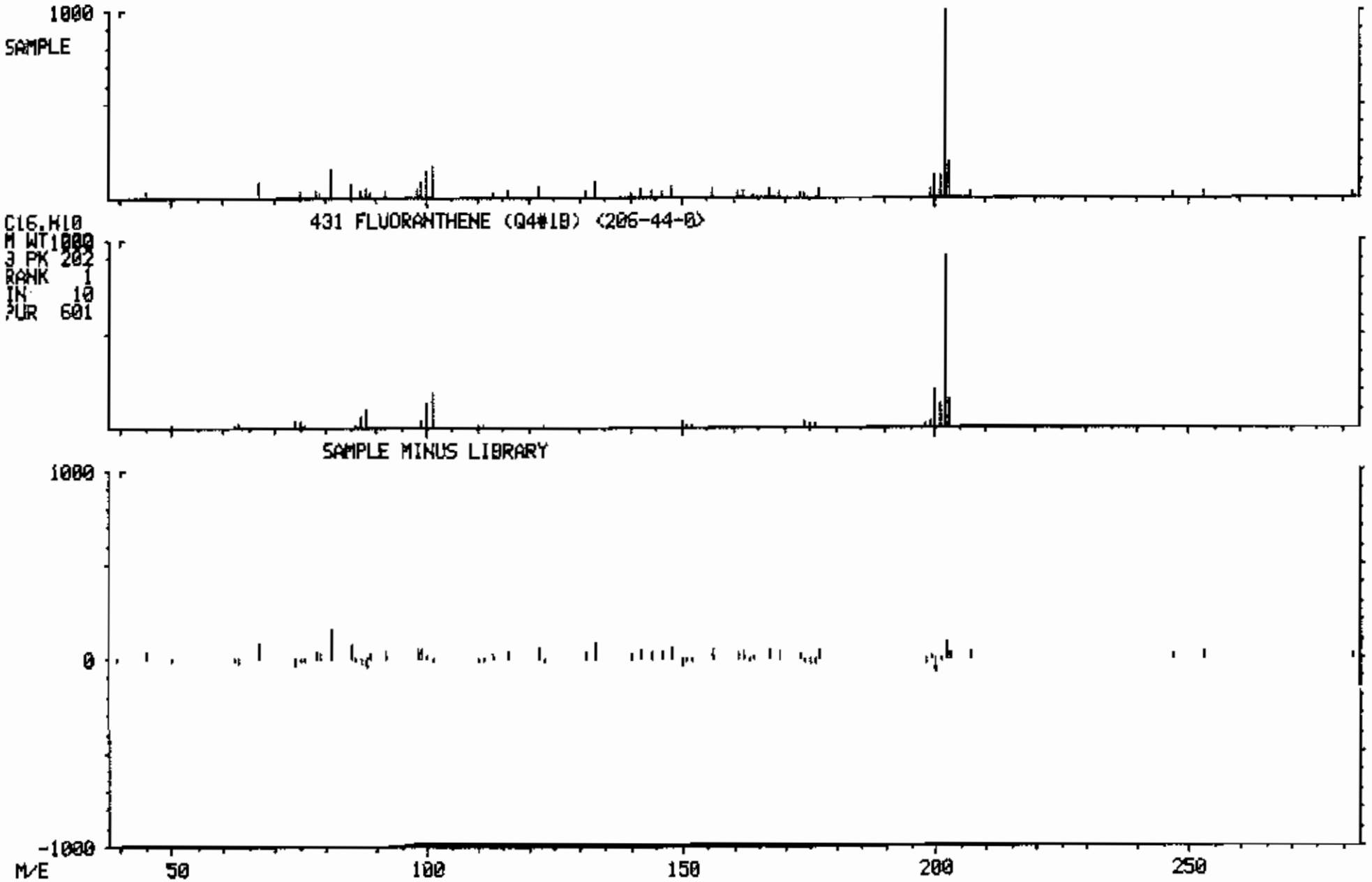


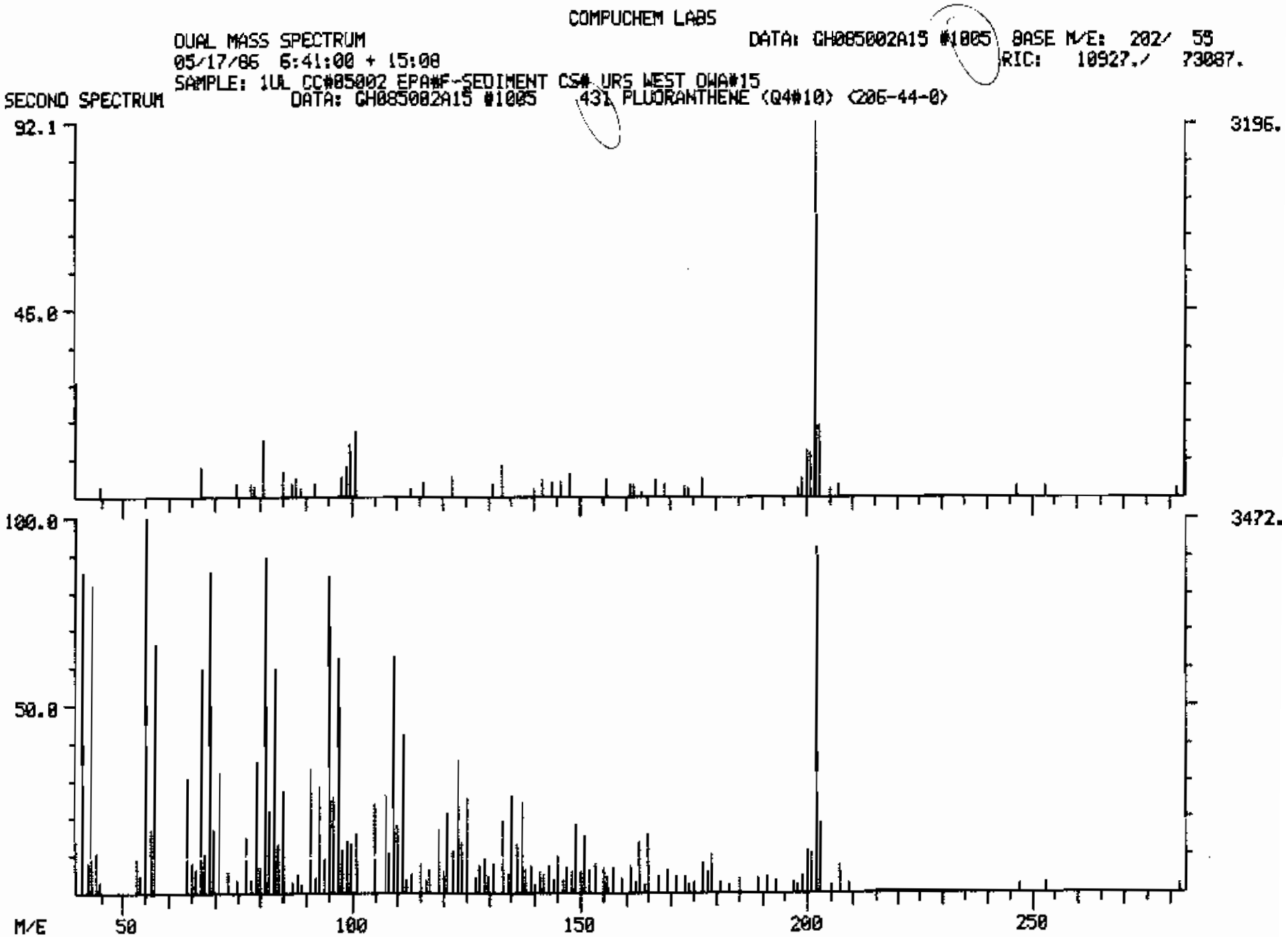
COMPUCHEM LABS

LIBRARY SEARCH
05/17/86 6:41:00 + 15:03
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST OWA#15

DATA: GH085002A15 #1005
ENHANCED (10B 2N 0T)

BASE M/E: 202
RIC: 10703.



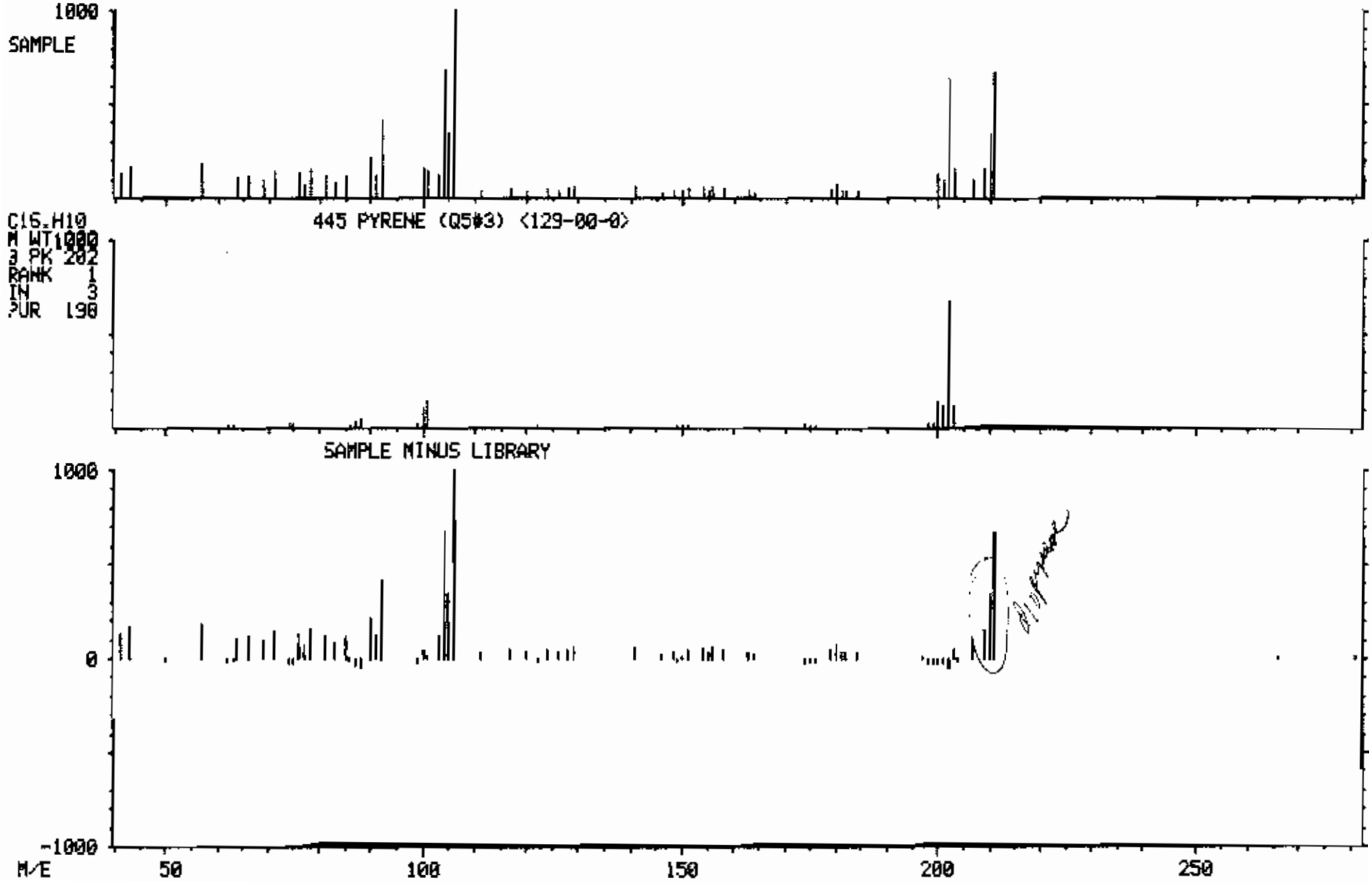

COMPUCHEM LABS
DUAL MASS SPECTRUM
05/17/86 6:41:00 + 15:08
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST DWA#15
DATA: GH085002A15 #1005
BASE M/E: 202/ 55
RIC: 10927./ 73087.
SECOND SPECTRUM
DATA: GH085002A15 #1005 431 FLUORANTHENE (Q4#10) (206-44-0)
92.1
46.0
3196.
100.0
50.0
3472.
M/E
50
100
150
200
250

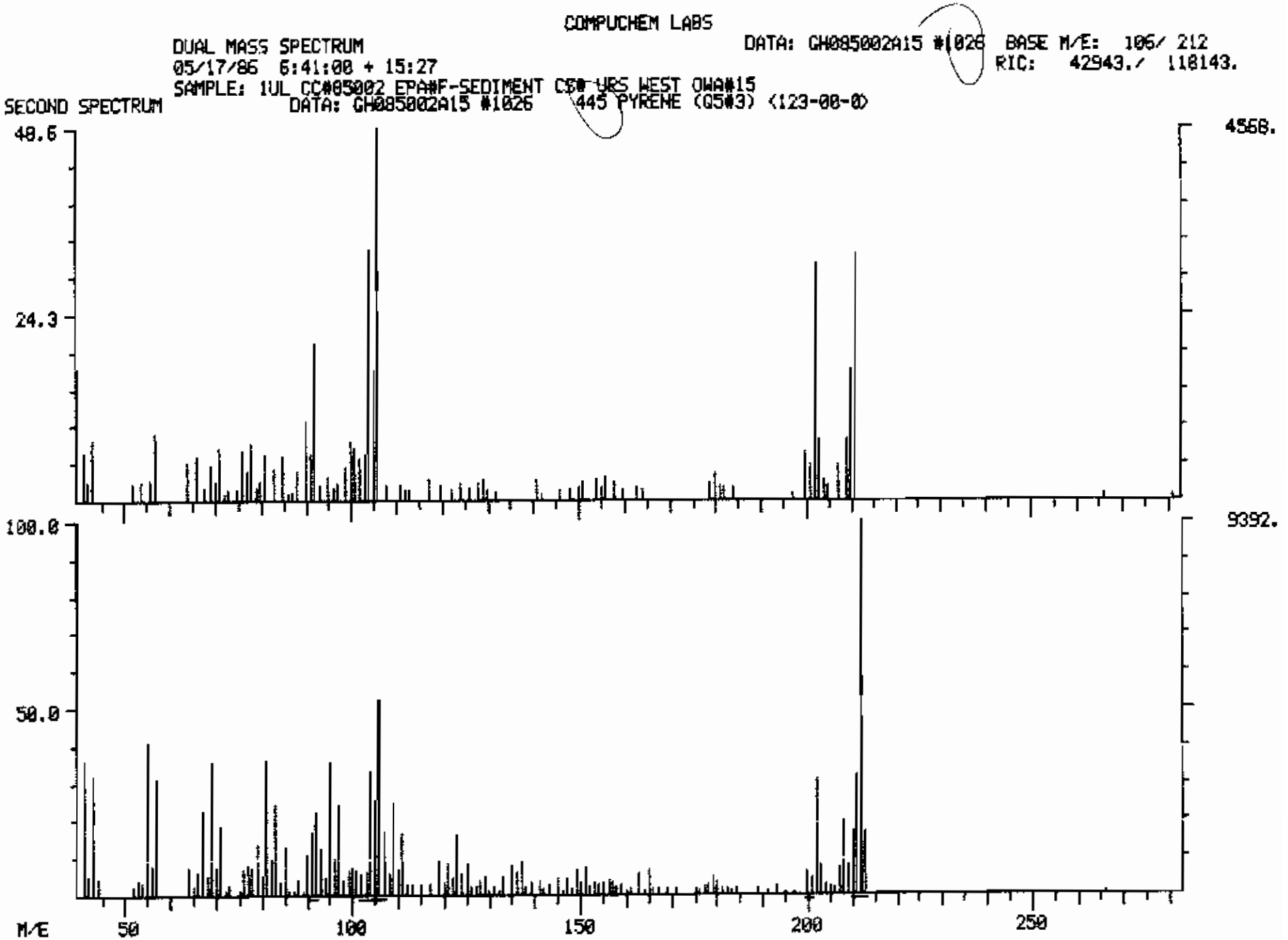
COMPUCHEM LABS

LIBRARY SEARCH
05/17/86 6:41:00 + 15:27
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST OWA#15

DATA: GH085002A15 #1026
ENHANCED (100 2N 0T)

BASE M/E: 106
RIC: 37247.



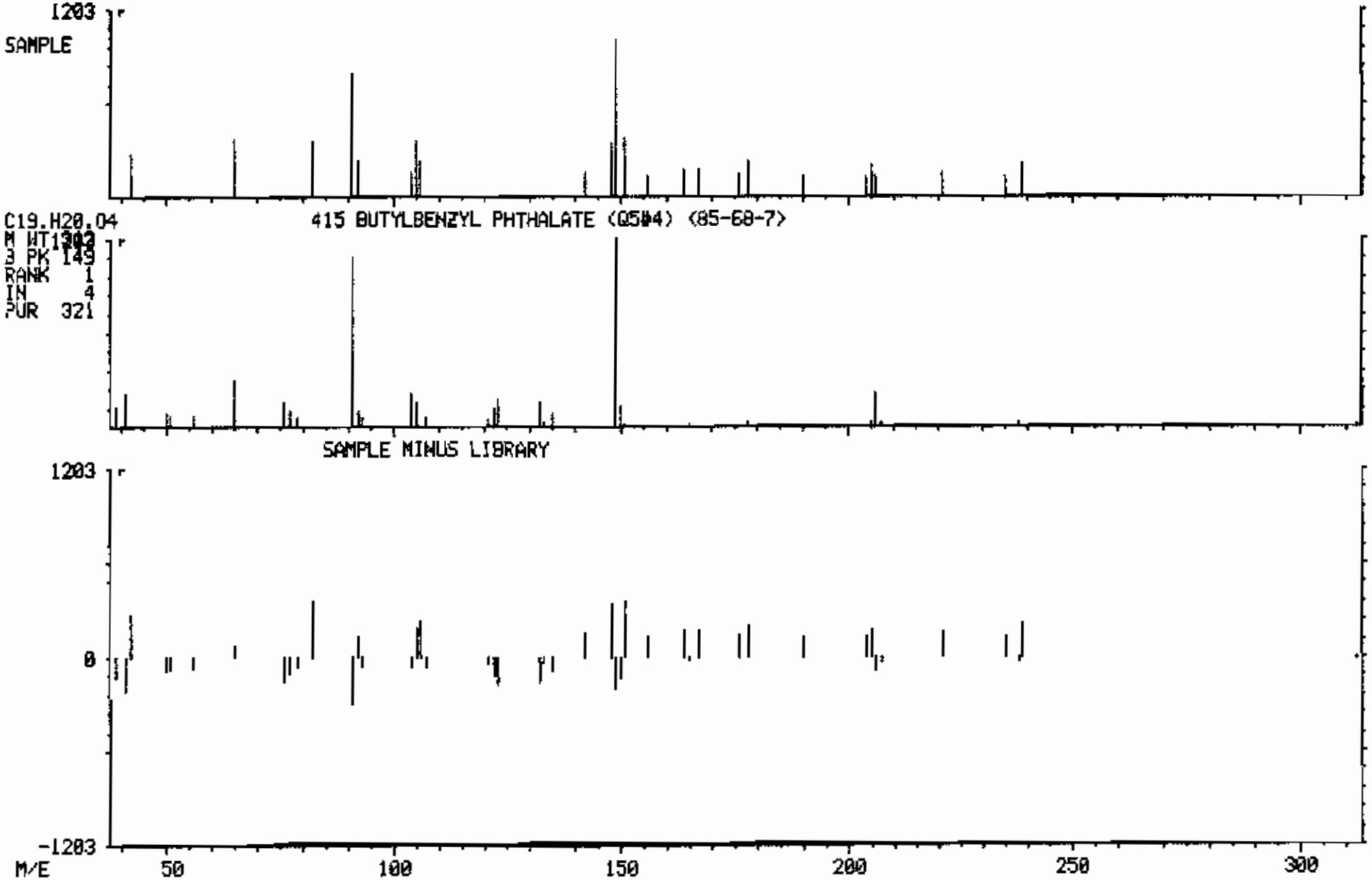

COMPUCHEM LABS
DUAL MASS SPECTRUM
05/17/86 6:41:00 + 15:27
DATA: GH085002A15 #1026 BASE M/E: 106/ 212
RIC: 42943./ 118143.
SAMPLE: 1UL CC#05002 EPA#F-SEDIMENT CS# URS WEST OWA#15
SECOND SPECTRUM
DATA: GH085002A15 #1026
445 PYRENE (Q5#3) <123-00-0>
48.6
24.3
4568.
100.0
50.0
9392.
M/E
50
100
150
200
250

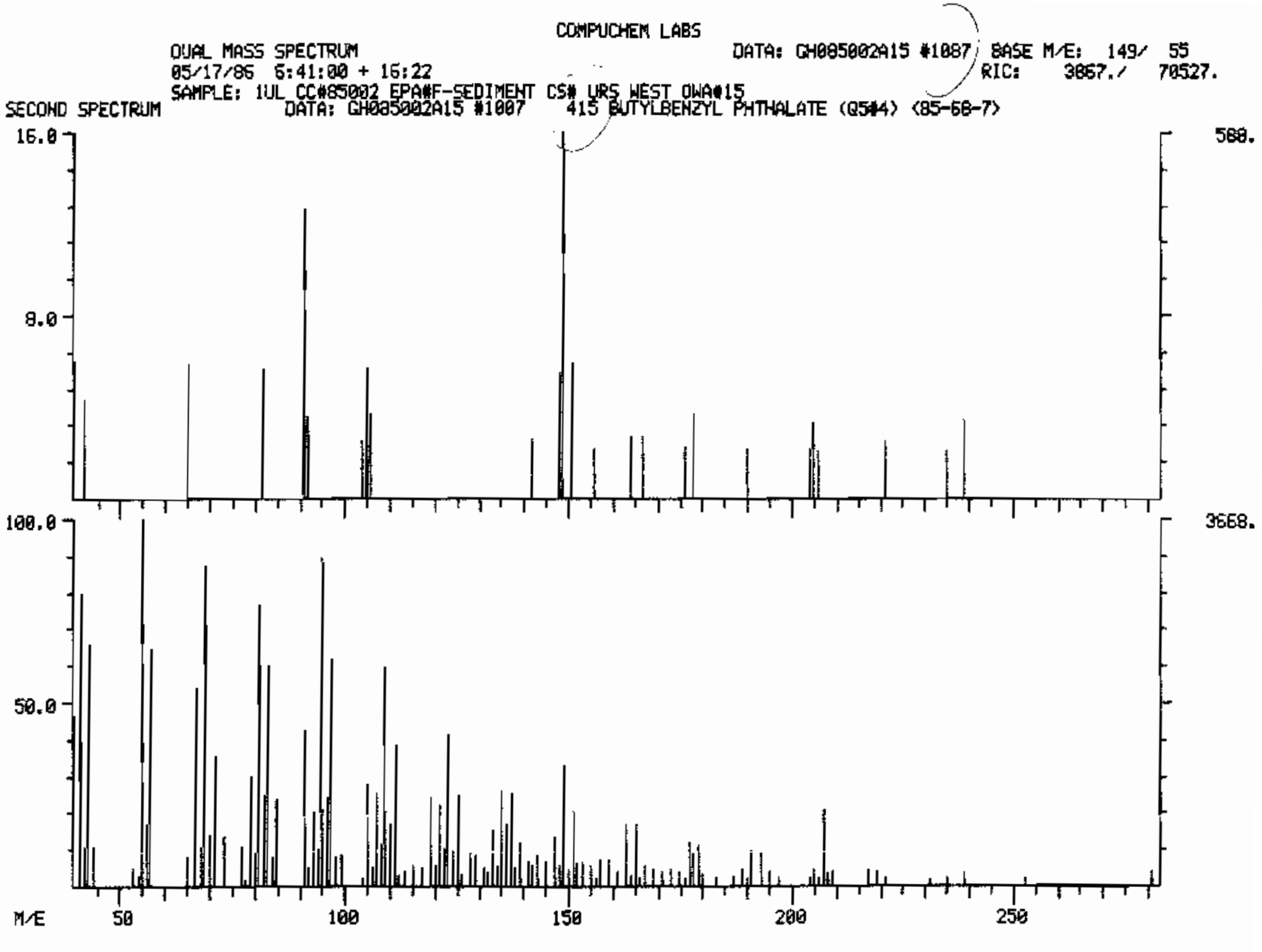
COMPUCHEM LABS

LIBRARY SEARCH
05/17/86 6:41:00 + 16:22
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST OWA#15

DATA: GH085002A15 #1087
ENHANCED (10B 2N 0T)

BASE M/E: 149
RIC: 3067.



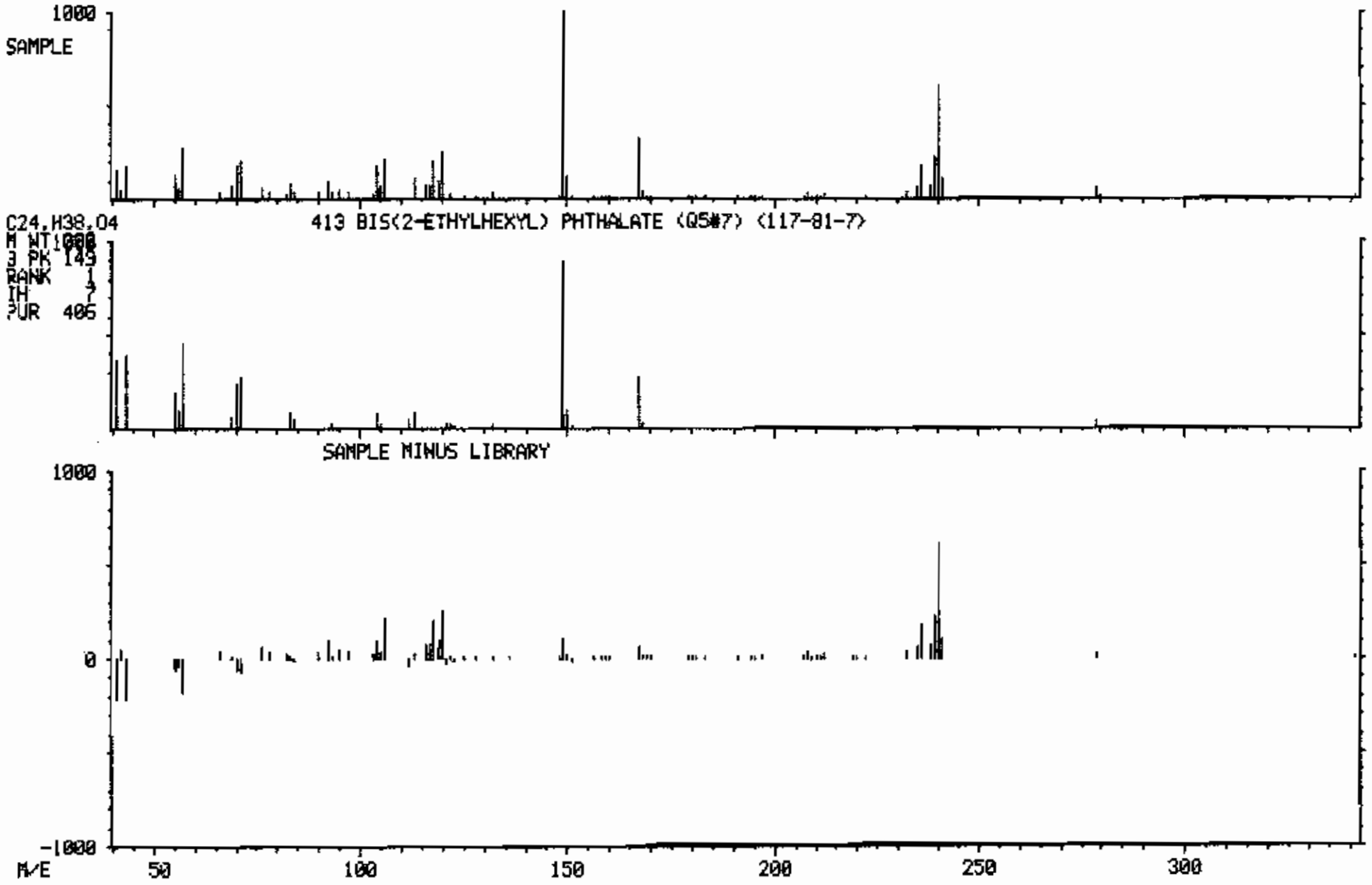

COMPUCHEM LABS
QUAL MASS SPECTRUM
DATA: GH085002A15 #1087
BASE M/E: 149/ 55
05/17/86 6:41:00 + 16:22
RIC: 3867./ 70527.
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST QWA#15
SECOND SPECTRUM
DATA: GH085002A15 #1007
415 BUTYLBENZYL PHTHALATE (Q5#4) (85-68-7)
16.0
8.0
500.
100.0
50.0
3668.
M/E
50
100
150
200
250

COMPUCHEM LABS

LIBRARY SEARCH
05/17/86 6:41:00 + 17:14
SAMPLE: 1UL CC#85002 EPA#F-SEDIMEHT CS# URS WEST OWA#15

DATA: GH085002A15 #1144
ENHANCED (100 2N 0T)

BASE M/E: 149
RIC: 168959.

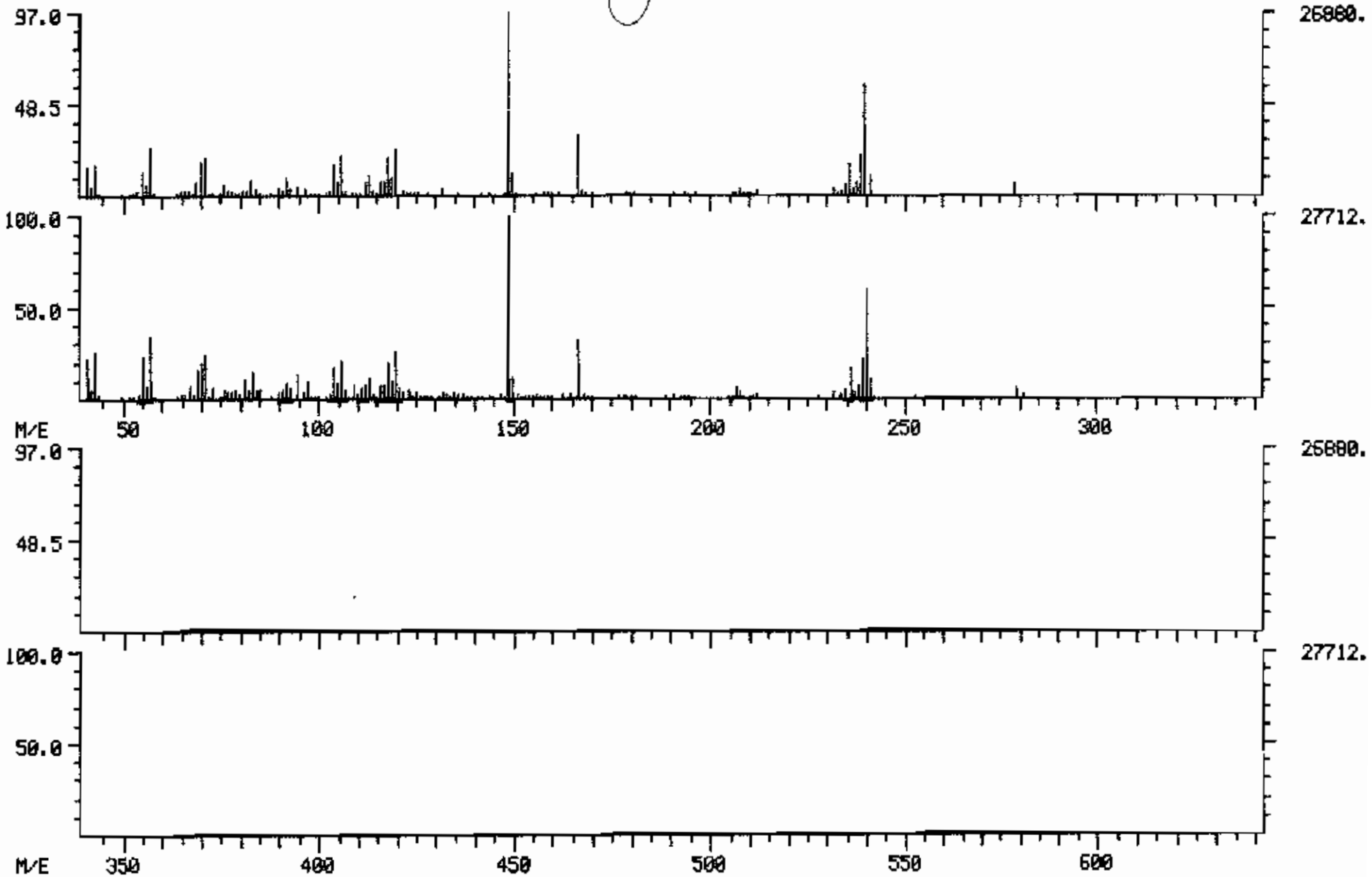


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/17/86 6:41:00 + 17:14
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT C5# URS WEST QWA#15

DATA: GH085002A15 #1144 BASE M/E: 149/ 149
RIC: 190463./ 248319.

SECOND SPECTRUM DATA: GH085002A15 #1144 1413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>



'ANTITATION REPORT FILE: STND

DATA: GH085002A15.TI
05/17/86 6:41:00
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT C8# UR8 WEST OWA#15
CONDS.:
SUBMITTED BY: 15 ANALYST: 876

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	473	7:07	3	0.630	A BV	542527.	72.500	14.55
2	RIC	586	8:50	3	0.780	A BB	687678.	91.898	18.44
3	RIC	751	11:19	3	1.000	A BB	748309.	100.000	20.07
4	RIC	890	13:24	3	1.185	A BB	550896.	73.619	14.77
5	RIC	1143	17:13	3	1.522	A VB	727649.	97.239	19.51
6	RIC	1354	20:23	3	1.803	A BV	471780.	63.046	12.65

'ANTITATION REPORT FILE: UNKNOWN

DATA: GH085002A15.TI
05/17/86 8:41:00
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST OWA#15
CONDS. :
SUBMITTED BY: 15 ANALYST: 876

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	950	14:18	5	0.733	A VB	180800.	52.218	11.78
2	RIC	984	14:49	5	0.759	A VB	141199.	40.781	9.20
3	RIC	1196	18:01	5	0.923	A BV	168454.	48.652	10.98
4	RIC	1265	19:03	5	0.976	A VV	68544.	19.797	4.47
5	RIC	1296	19:31	5	1.000	A VB	346240.	100.000	22.56
6	RIC	1316	19:49	5	1.015	A BV	179452.	51.829	11.69
7	RIC	1321	19:54	5	1.019	A VV	55257.	15.959	3.60
8	RIC	1345	20:15	5	1.038	A BB	64864.	18.734	4.23
9	RIC	1438	21:39	5	1.110	A BB	93600.	27.033	6.10
10	RIC	1483	22:20	5	1.144	A BV	151928.	43.879	9.90
11	RIC	1564	23:33	5	1.207	A VB	84128.	24.298	5.48

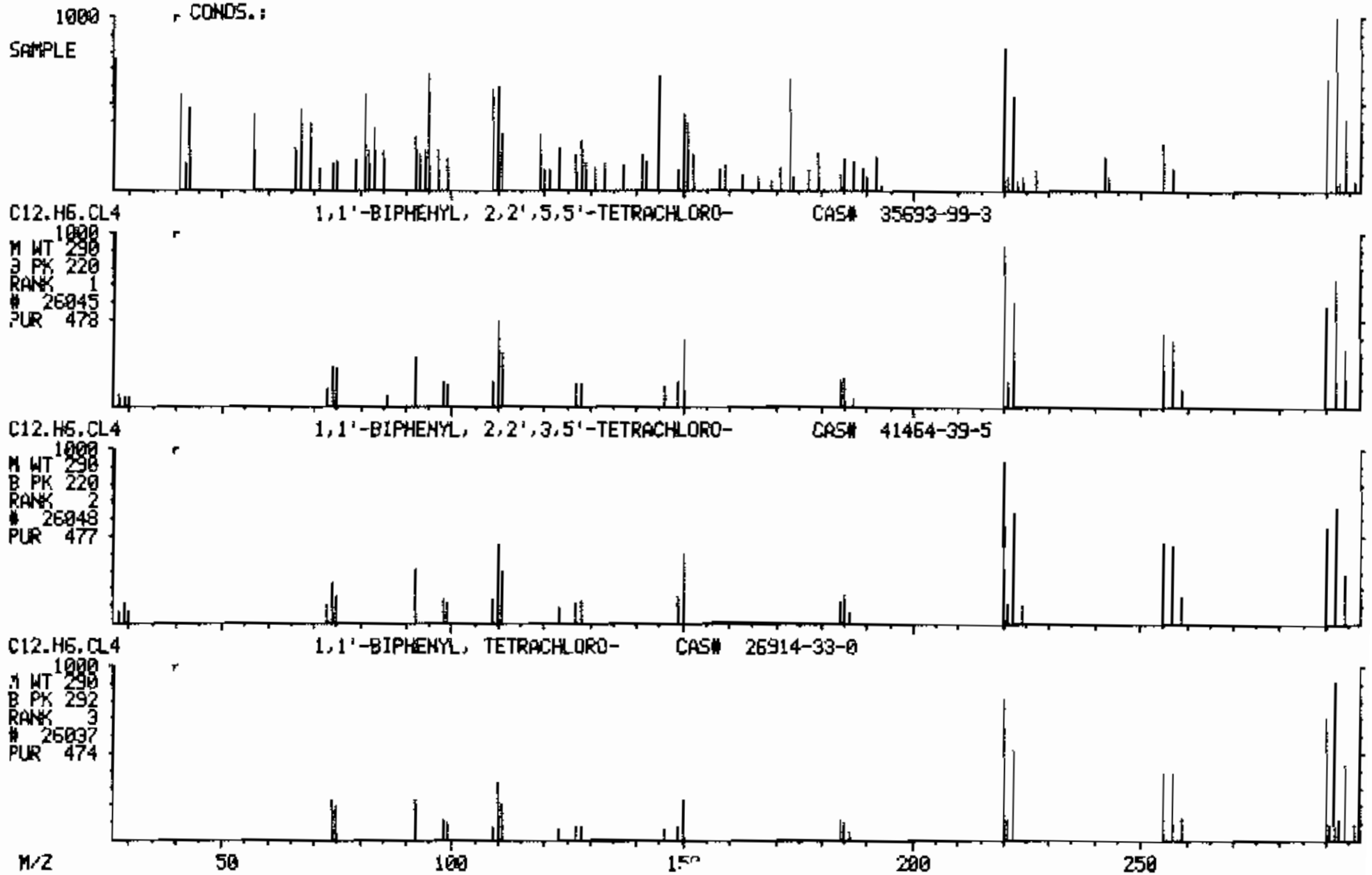
BNA 1

COMPUCHEM LABS

MID LIBRARY SEARCH
05/17/86 6:41:00 + 14:18
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST OWA#15
CONDS.:

DATA: GH085002A15 # 950
ENHANCED (10B 2N 0T)

BASE M/Z: 292
RIC: 33215.

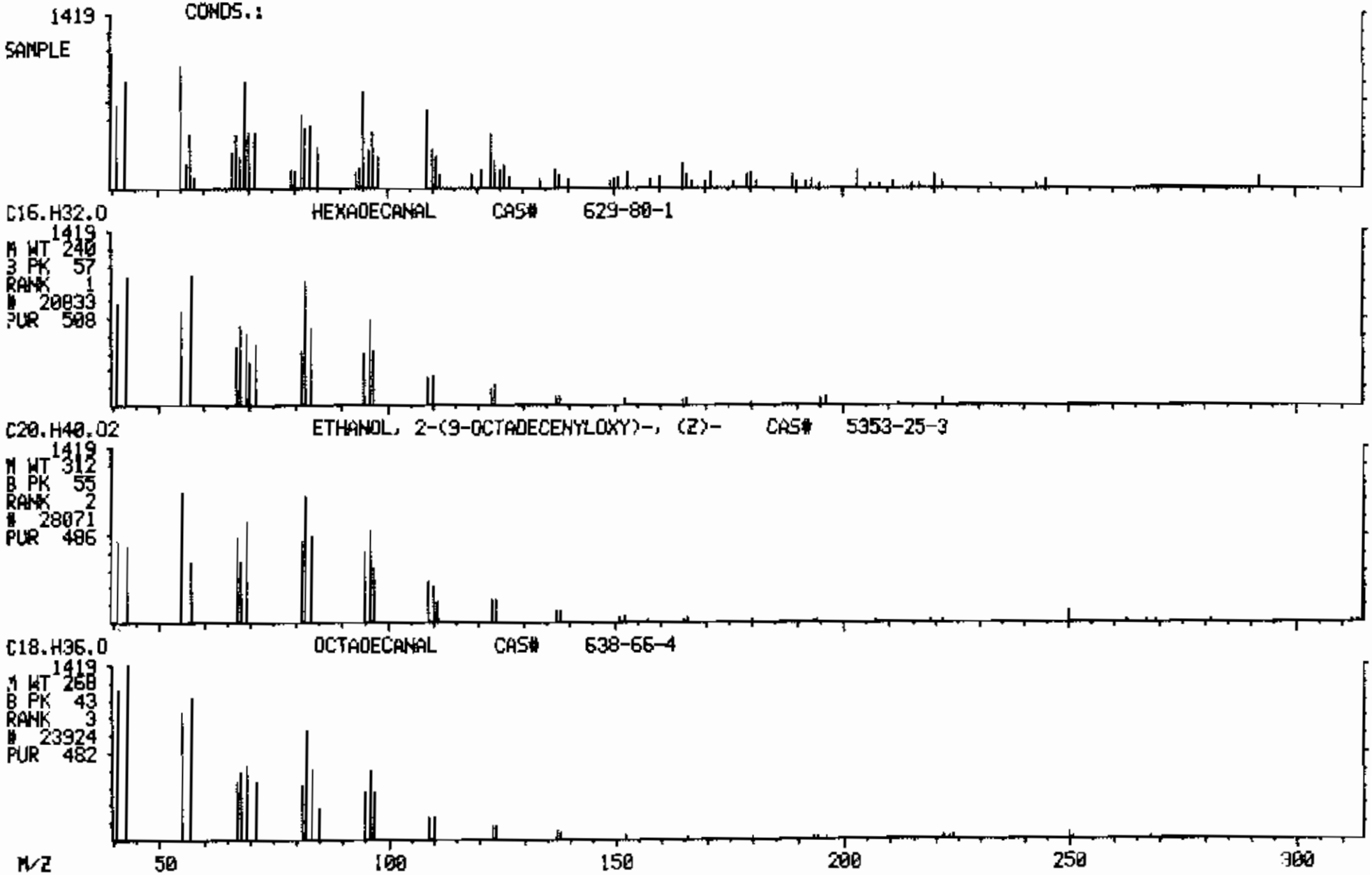


COMPUCHEM LABS

MID LIBRARY SEARCH
05/17/86 6:41:80 + 14:49
SAMPLE: 1UL CC#85802 EPA#F-SEDIMENT CS# URS WEST OWA#15
CONDS.:

DATA: GH085002A15 # 384
ENHANCED (10B 2N 0T)

BASE M/Z: 55
RIC: 28639.



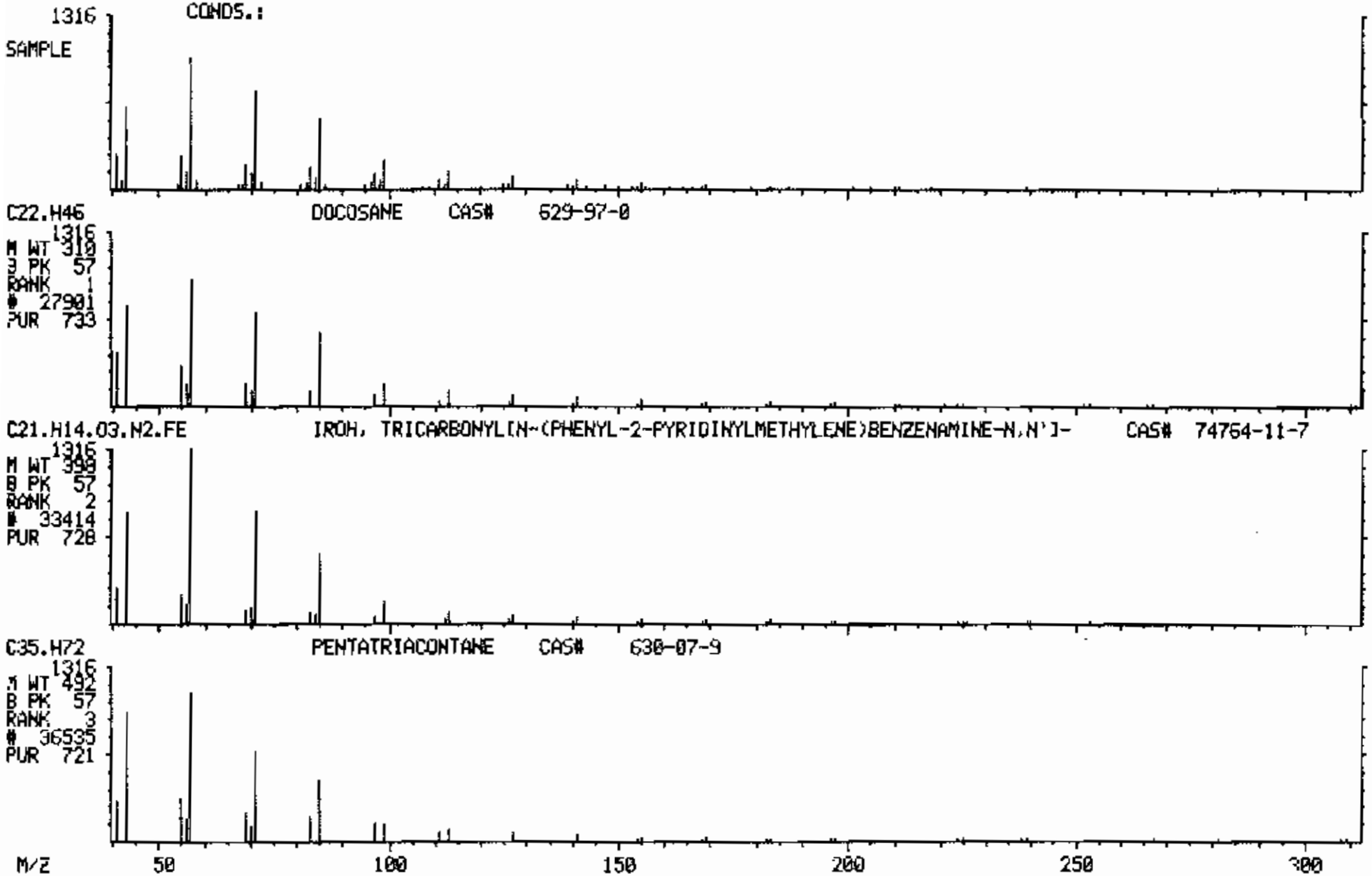
BNA3

COMPUCHEM LABS

MID LIBRARY SEARCH
05/17/86 6:41:00 + 18:01
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST OWA#15
CONDS.:

DATA: GH085002A15 #1196
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 67711.



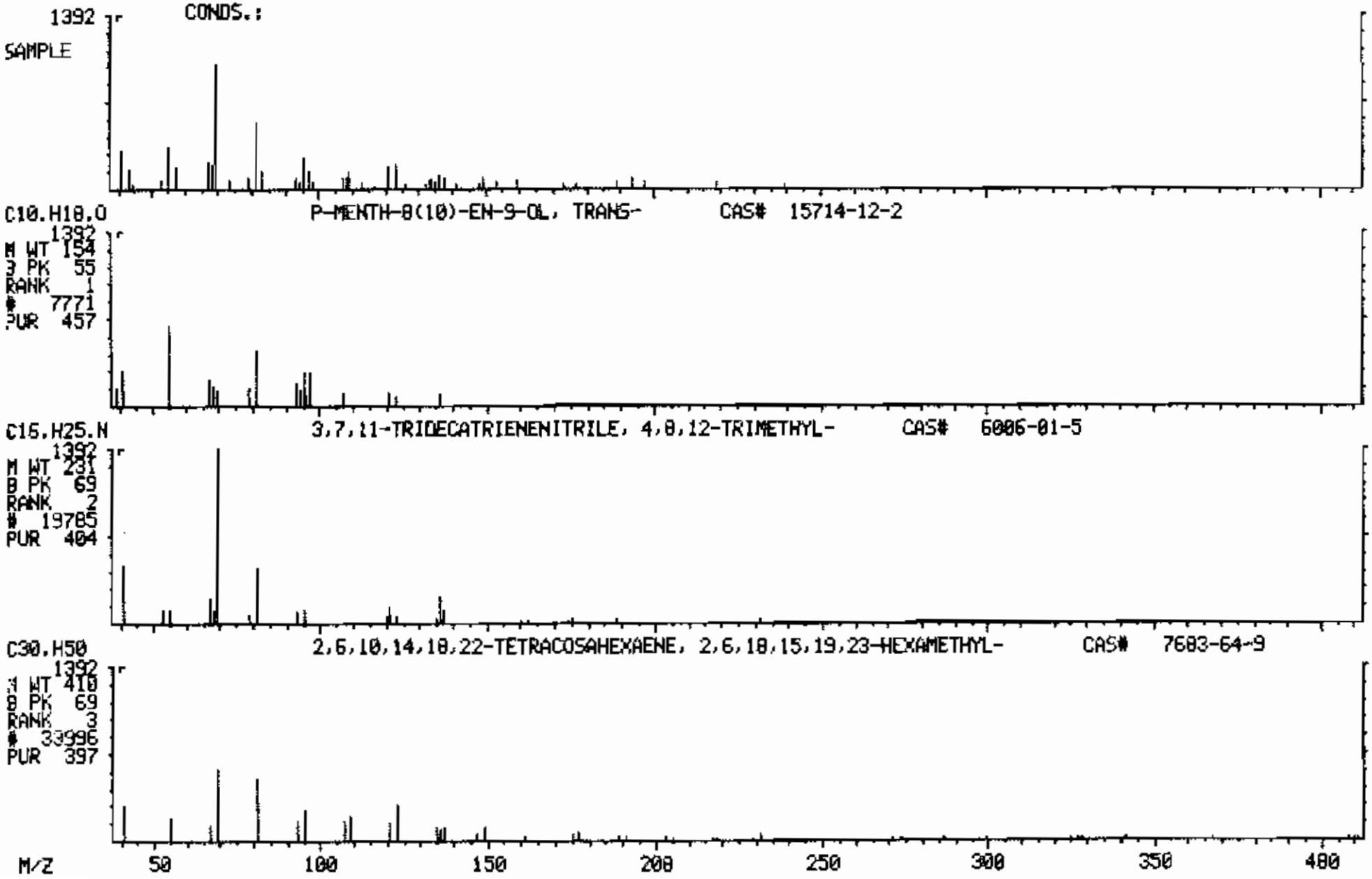
BNA 4

COMPUCHEM LABS

MID LIBRARY SEARCH
05/17/86 6:41:00 + 19:03
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST OWA#15
CONDS.:

DATA: GH085002A15 #1265
ENHANCED (10B 2N 0T)

BASE M/Z: 59
RIC: 13567.

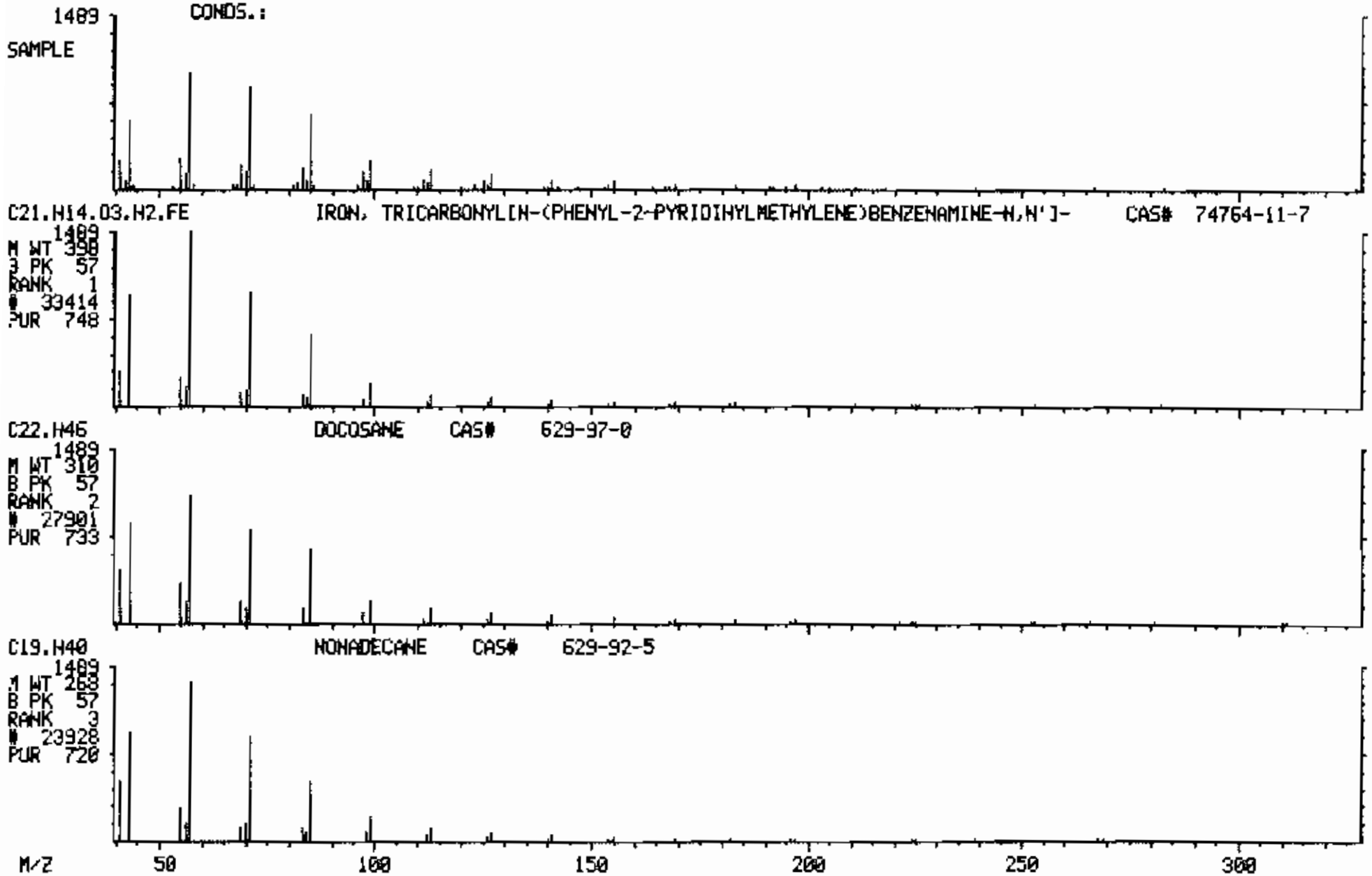


COMPUCHEM LABS

MID LIBRARY SEARCH
05/17/86 6:41:00 + 19:31
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST OWA#15
CONDS.:

DATA: GH08S002A15 #1296
ENHANCED (10B 2H 0T)

BASE M/Z: 57
RIC: 69759.



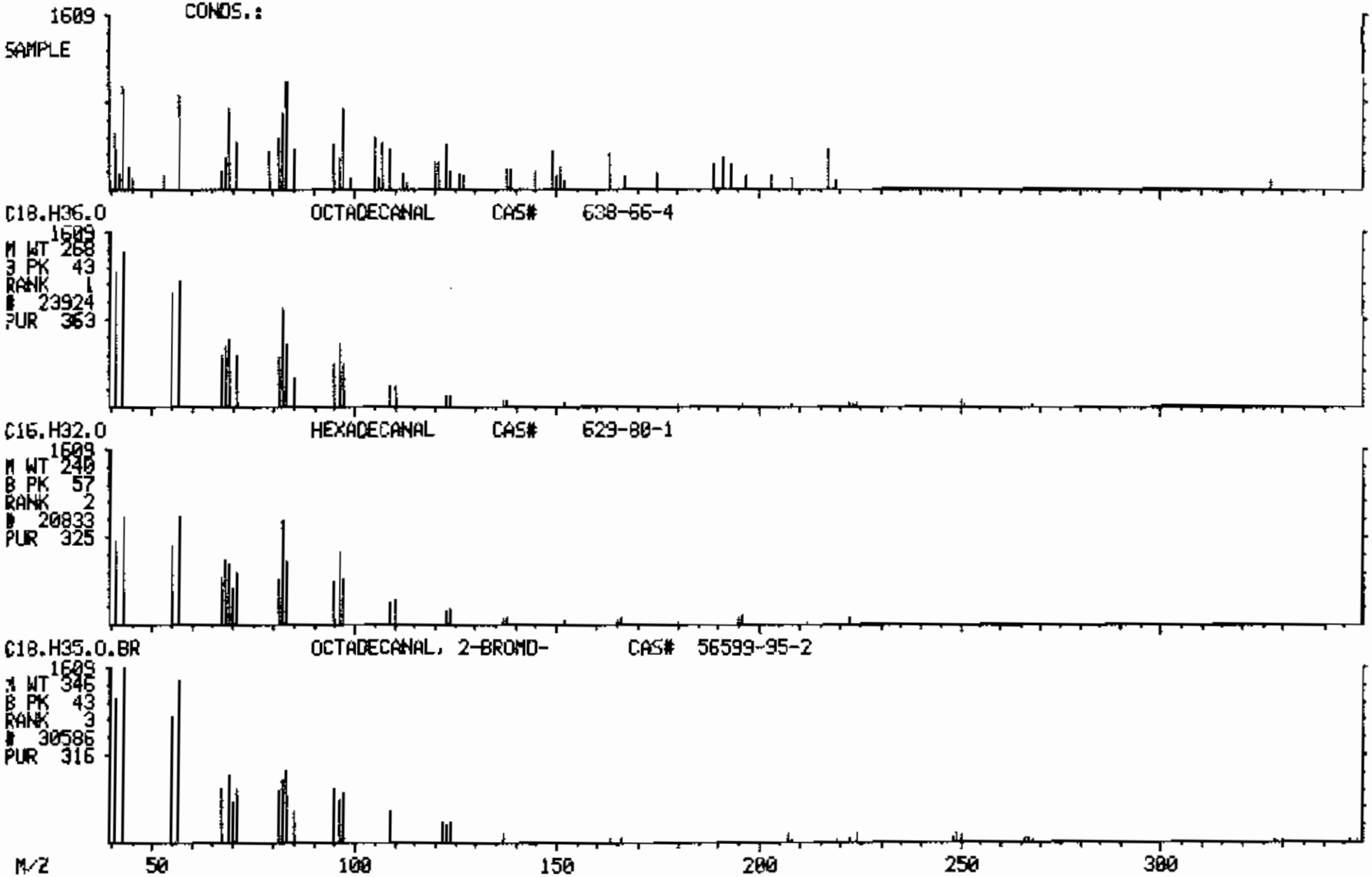
BNA6

COMPUCHEM LABS

MID LIBRARY SEARCH
05/17/86 6:41:00 + 19:49
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST OWA#15
CONDS.:

DATA: GH085002A15 #1315
ENHANCED (10B 2N 0T)

BASE M/Z: 83
RIC: 12783.



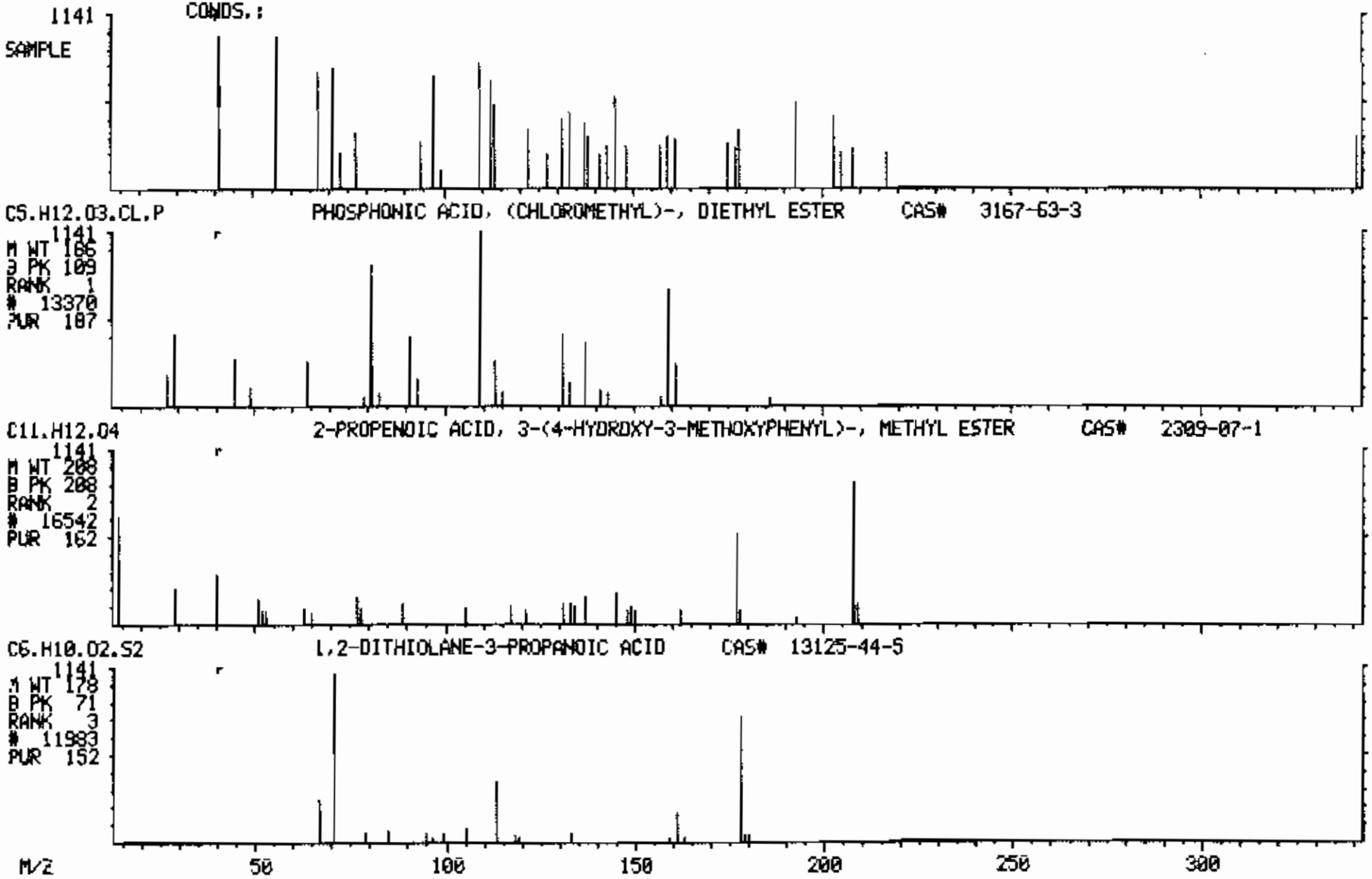
BNA7

COMPUCHEM LABS

MID LIBRARY SEARCH
05/17/86 6:41:00 + 19:54
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST DWA#15
CONDS.:

DATA: GH085002A1S #1321
ENHANCED (10B 2N 0T)

BASE M/Z: 56
RIC: 5303.



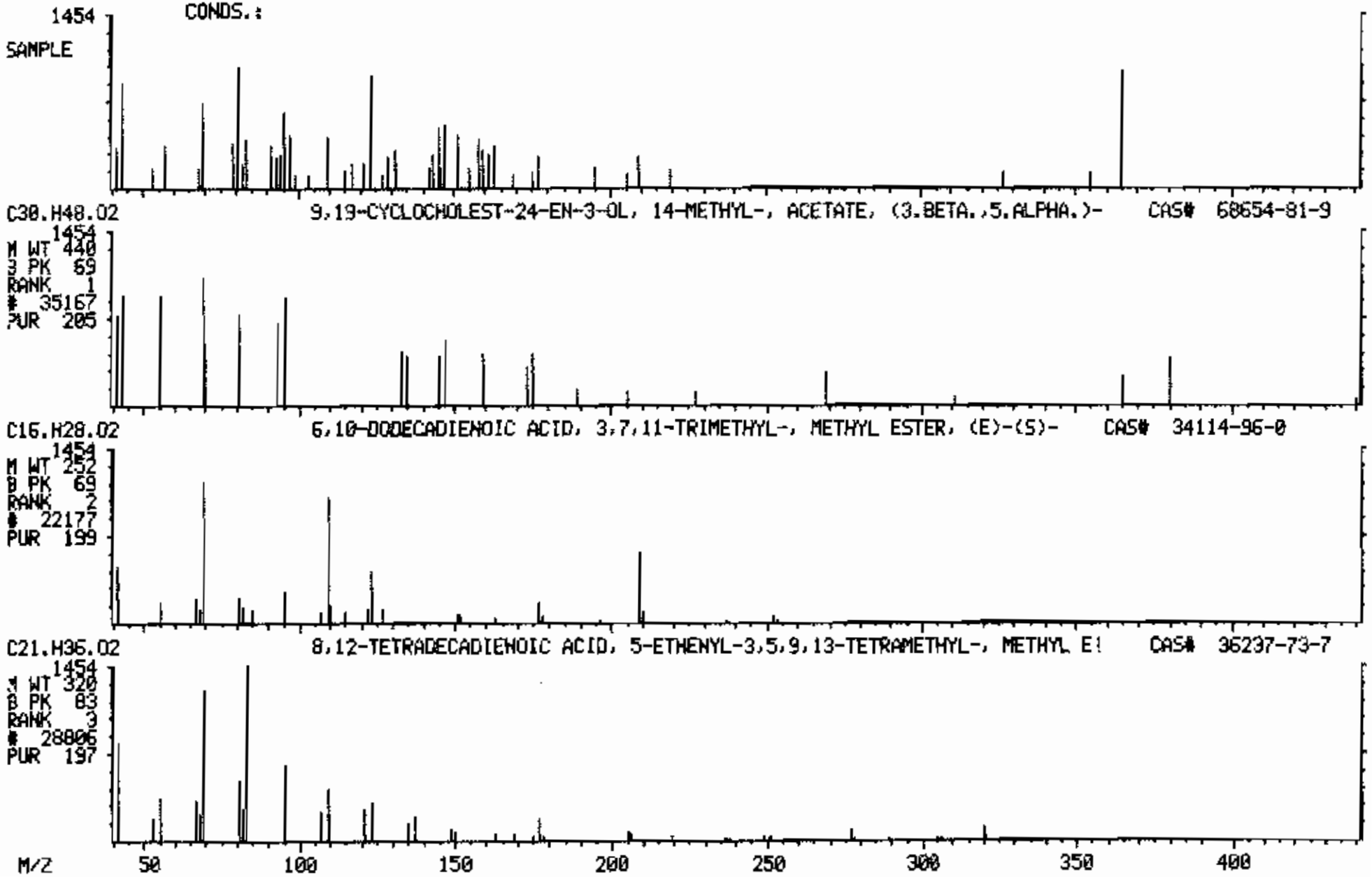
BNA8

COMPUCHEM LABS

MID LIBRARY SEARCH
05/17/86 6:41:00 + 20:15
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST OWA#15
CONDS.:

DATA: GH085002A15 #1345
ENHANCED (100 2N 0T)

BASE M/Z: 81
RIC: 10431.

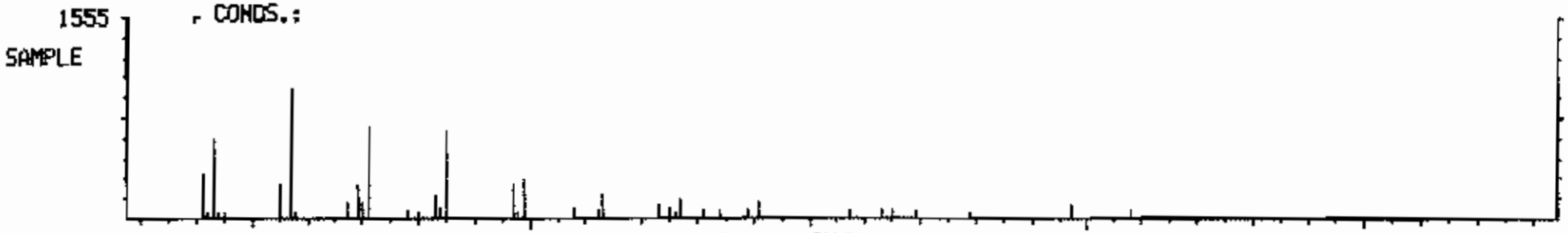


BNAA

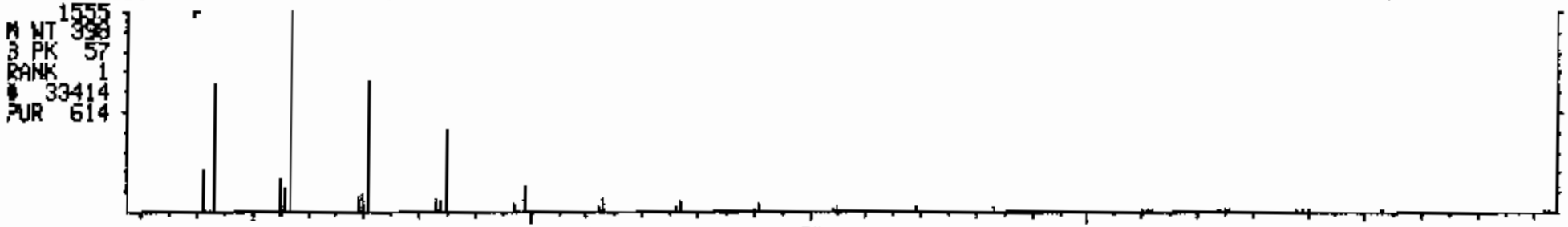
COMPUCHEM LABS

MID LIBRARY SEARCH
05/17/86 6:41:00 + 21:39
DATA: CH085002A15 #1438
ENHANCED (10B 2N 0T)
BASE M/Z: 57
RIC: 12879.

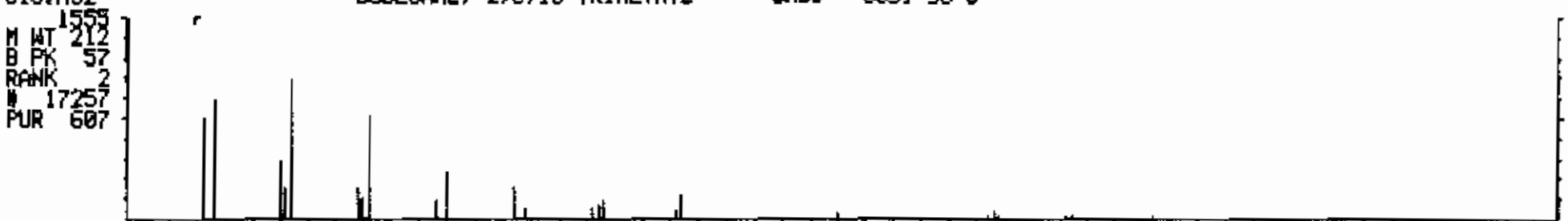
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST OWA#15
CONDS.:



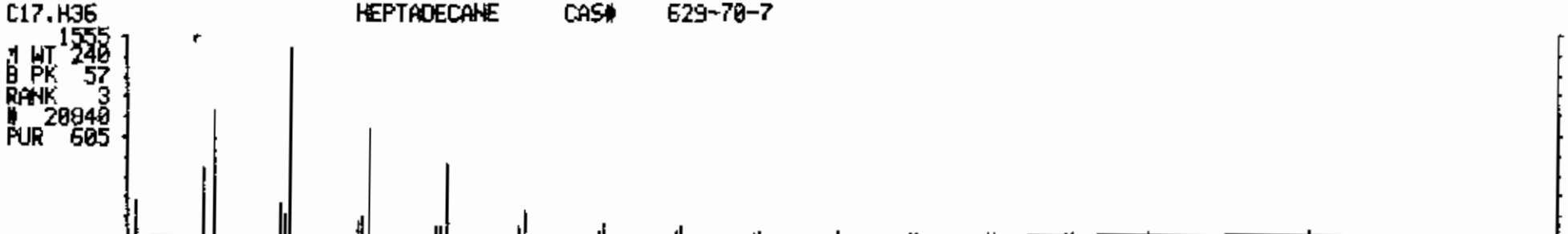
C21.H14.O3.N2.FE IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLMETHYLENE)BENZENAMINE-N,N']- CAS# 74764-11-7

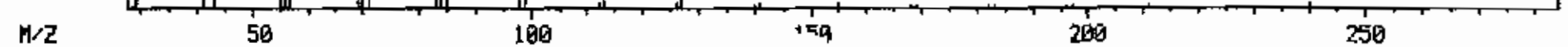


C15.H32 DODECANE, 2,6,10-TRIMETHYL- CAS# 3891-98-3



C17.H36 HEPTADECANE CAS# 629-78-7





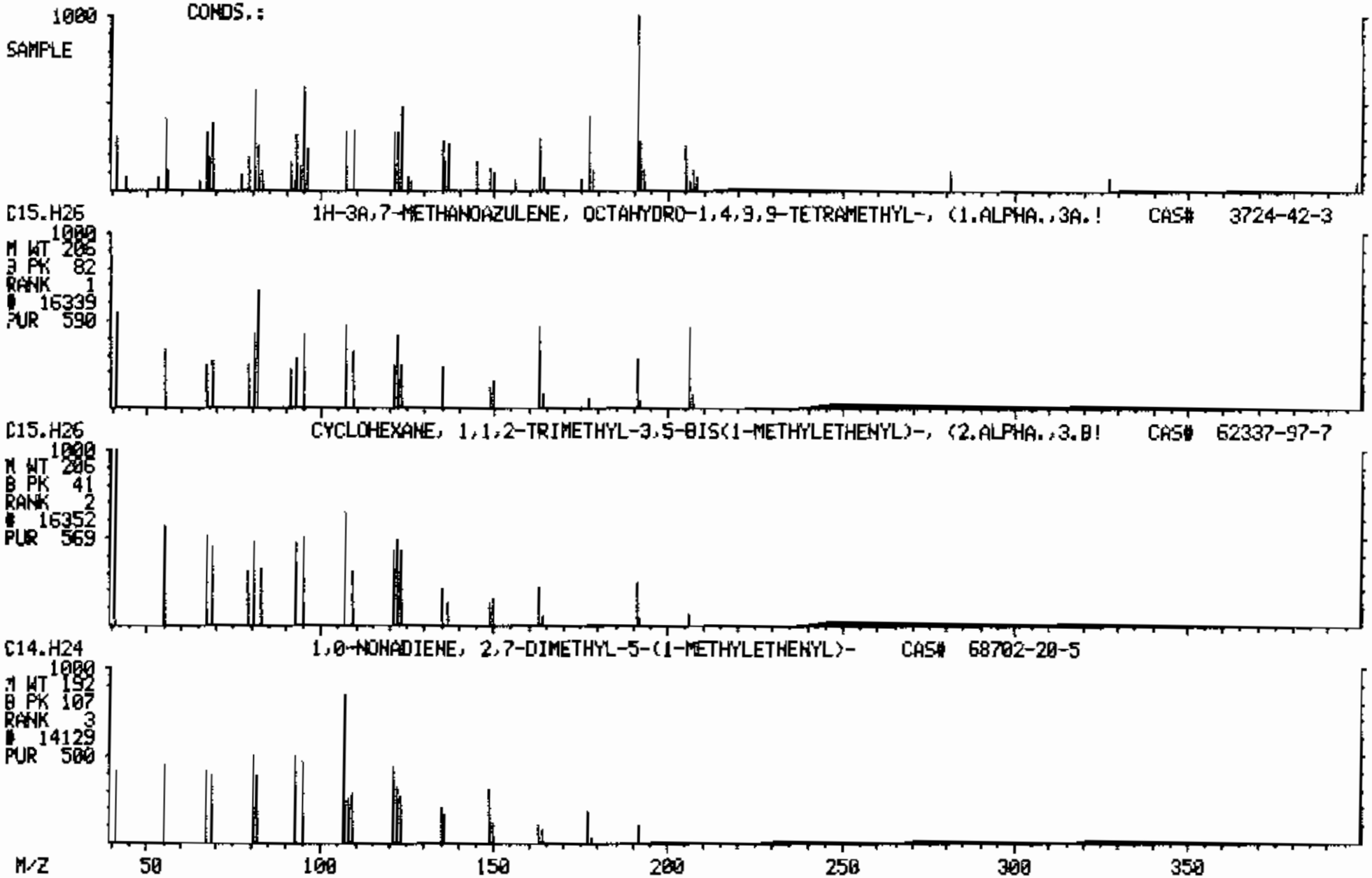
BWA10

COMPUCHEM LABS

MID LIBRARY SEARCH
05/17/86 6:41:00 + 22:20
SAMPLE: 1UL CC#05002 EPA#F-SEDIMENT CS# URS WEST DWA#15
CONDS.:

DATA: GH085002A15 #1483
ENHANCED (10B 2N 0T)

BASE M/Z: 191
RIC: 16863.



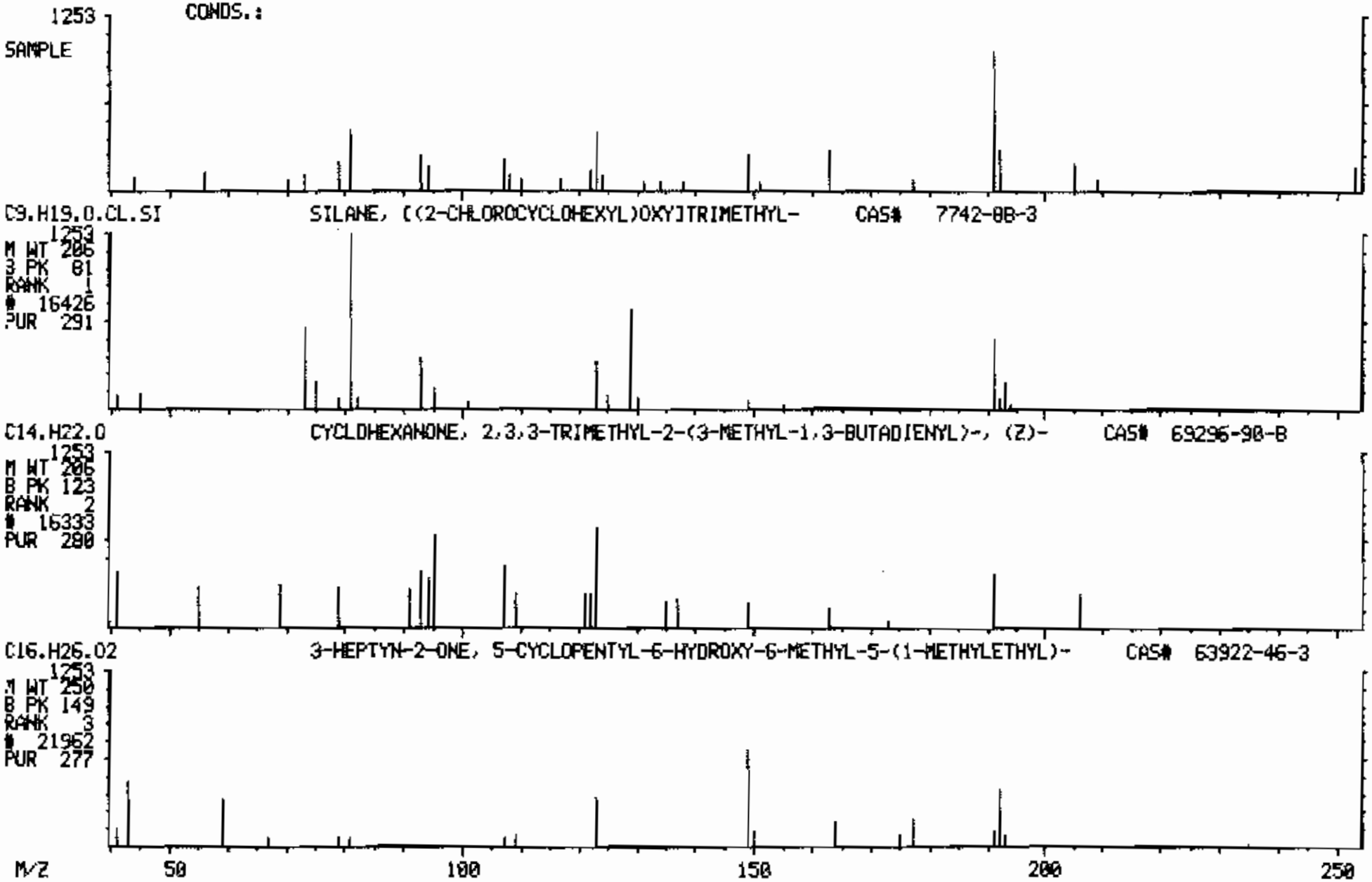
BNA 11

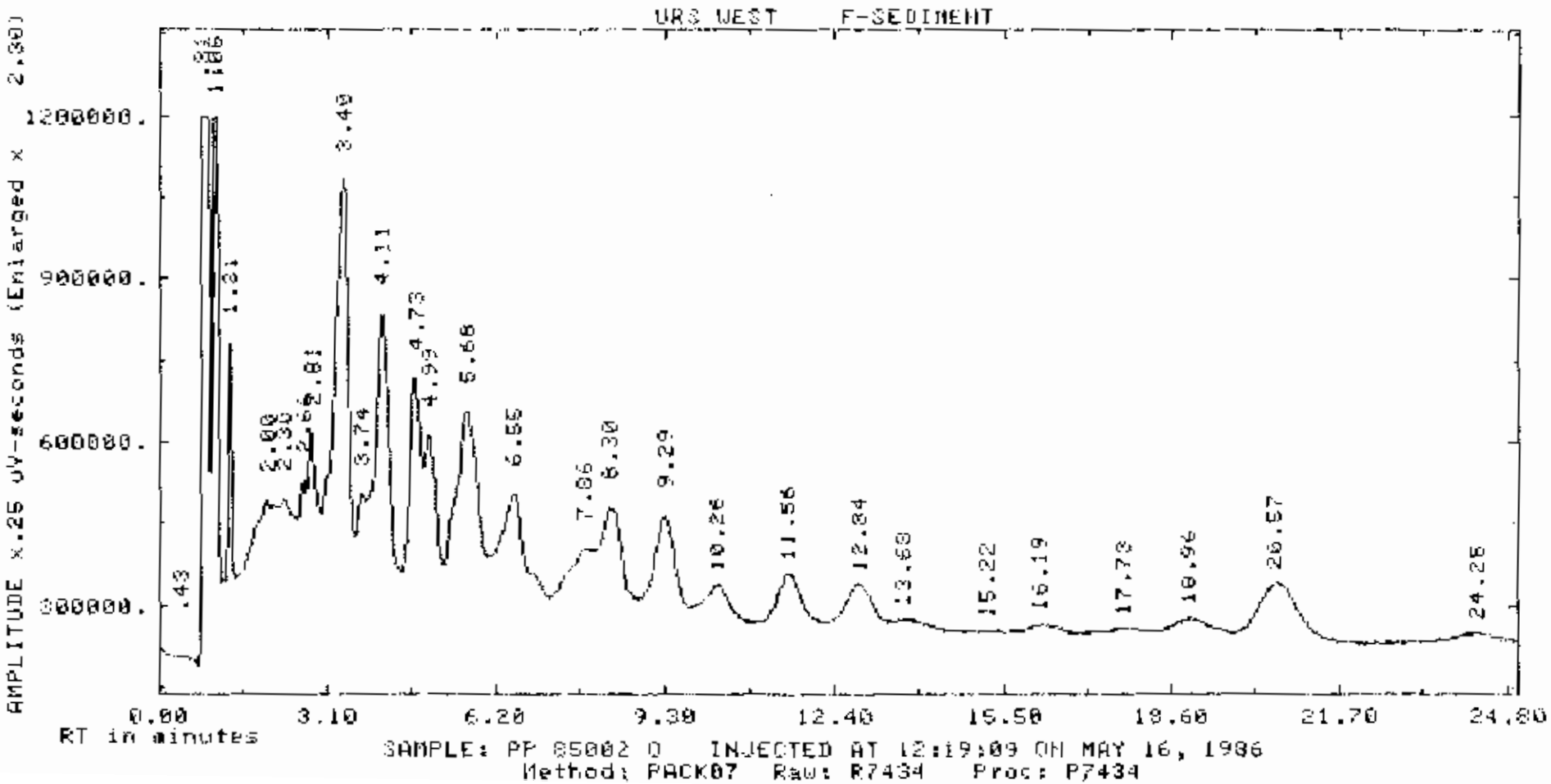
COMPUCHEM LABS

MID LIBRARY SEARCH
05/17/86 6:41:00 + 23:33
SAMPLE: 1UL CC#85002 EPA#F-SEDIMENT CS# URS WEST OWA#15
CONDS.:

DATA: GH035002A15 #1564
ENHANCED (10B 2N 0T)

BASE M/Z: 191
RIC: 5847.




URS WEST F-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 2.50)
1200000.
900000.
600000.
300000.
.43
1.21
2.00
2.30
2.81
3.49
3.74
4.11
4.73
4.99
5.68
6.55
7.86
8.30
9.29
10.26
11.56
12.84
13.68
15.22
16.19
17.73
18.96
20.57
24.25
0.00
3.10
6.20
9.30
12.40
15.50
18.60
21.70
24.80
RT in minutes
SAMPLE: PP 85002 D INJECTED AT 12:19:09 ON MAY 16, 1986
Method: PACK07 Raw: R7434 Proc: P7434

Report: 207.00 Channel: 7 URS WEST F-SEDIMENT

Sample PP 05002 5 Injected at 12:19 09 On MAY 16, 1986

APCT Method: PACK07 Seq: SEQ74 Subsq/Samp: 1/34 Btl: 34

Si-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	10000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	XRTW	XDil-f	Iso
NO	0.00	0	.50	5.0	500.00	NO

Actual run time: 25.000 minutes

Ended not on baseline
No reference peak found

RT	ITM	Factor	Area		AREA %	Name
.43	0.00	.10000E+01	63433.	BB	.999	
.81	0.00	.10000E+01	0.	BS	0.000	
.91	0.00	.10000E+01	2020101.	BB	31.809	
1.05	0.00	.10000E+01	4544846.	BS	71.565	
1.31	0.00	.10000E+01	924304.	BS	14.556	
2.00	0.00	.10000E+01	122183.	BB	1.924	
2.30	0.00	.10000E+01	84315.	BB	1.328	
2.66	0.00	.10000E+01	86432.	BB	1.361	
2.81	0.00	.10000E+01	379077.	BB	5.969	
3.40	0.00	.10000E+01	4791124.	BB	75.443	
3.74	0.00	.10000E+01	112367.	BB	1.769	
4.11	0.00	.10000E+01	2769859.	BB	43.616	
4.73	0.00	.10000E+01	1126640.	BB	17.741	
4.99	0.00	.10000E+01	569752.	BB	8.972	
5.68	0.00	.10000E+01	3161332.	BB	49.780	
6.55	0.00	.10000E+01	1328468.	BB	20.919	
7.06	0.00	.10000E+01	149010.	BB	2.346	
8.30	0.00	.10000E+01	1077200.	BB	16.962	
9.29	0.00	.10000E+01	1807434.	BB	28.461	
10.26	0.00	.10000E+01	728676.	BB	11.474	
11.56	0.00	.10000E+01	1253642.	BB	19.743	
12.84	0.00	.10000E+01	1030444.	BB	16.226	
13.68	0.00	.10000E+01	68714.	BB	1.082	
15.22	0.00	.10000E+01	16511.	BB	.260	
16.19	0.00	.10000E+01	251206.	BB	3.956	
17.73	0.00	.10000E+01	132968.	BB	2.094	
19.96	0.00	.10000E+01	508342.	BB	8.005	
20.57	0.00	.10000E+01	2271808.	BB	35.773	
24.25	0.00	.10000E+01	371810.	BB	5.855	

Total Area = 31753116. Total AREA % = 371810.000

Processed data file: P7434 Raw data file: R7434

REPORT: 207.21 CHANNEL: 7

SAMPLE: PP 85002 0 INJECTED AT 12:19:09 ON MAY 16, 1986

ESTD METHOD: AR4874 SEQ: SEQ74 SUBSQ/SAMP: 1/ 34 BTL: 54

L-WDTH	MV/MIN	DELAY	MIN-AR	BUNCH
.500	.300	0.00	10000	AUTO

SUP-UNK	DVT	ID-LVL	REF-RTW	%RTW	%DIL-F	I
YES	0.00	0	.300	5.000	500.00	NO

ACTUAL RUN TIME: 25.008 MINUTES

ENDED NOT ON BL

RT	ITM	FACTOR	AREA		RATIO	NAME
1.31			15429450	**	106.977	+AR4874

TOTAL AREA = 28562756 * TOTAL RATIO = 656665?4.9

SUMMED PEAK COMPONENTS

RT	ITM	FACTOR	AREA		RATIO	NAME
1.31	1.33	1.3824E-5	924384	BS	63.895	+AR4874
2.30	2.33	6.4348E-6	84315	BB	2.713	+AR4874
2.81	2.81	1.4265E-6	379077	BB	2.704	+AR4874
3.40	3.43	5.8439E-7	4791124	BB	13.998	+AR4874
3.74	3.70	3.8555E-6	113367	BB	2.185	+AR4874
4.11	4.10	3.6496E-7	2769859	BB	5.054	+AR4874
4.73	4.73	8.8745E-7	1126640	BB	4.999	+AR4874
4.99	5.02	1.3502E-6	569752	BB	3.846	+AR4874
5.68	5.68*	2.1459E-7	3161332	BB	3.392	*+AR4874
6.55	6.58	3.6753E-7	1328468	BB	2.441	+AR4874
7.86	7.86	1.9312E-6	181129	BB	1.749	+AR4874

PROCESSED DATA FILE: P7434 RAW DATA FILE: R7434

ASS 1
MEAN =10.3585 STD DEV =18.164 REL STD DEV =1.75352 N=10
SUM OF STANDARD AREAS =1.07456E+07 SUM OF SAMPLE AREAS =1.22681E+07

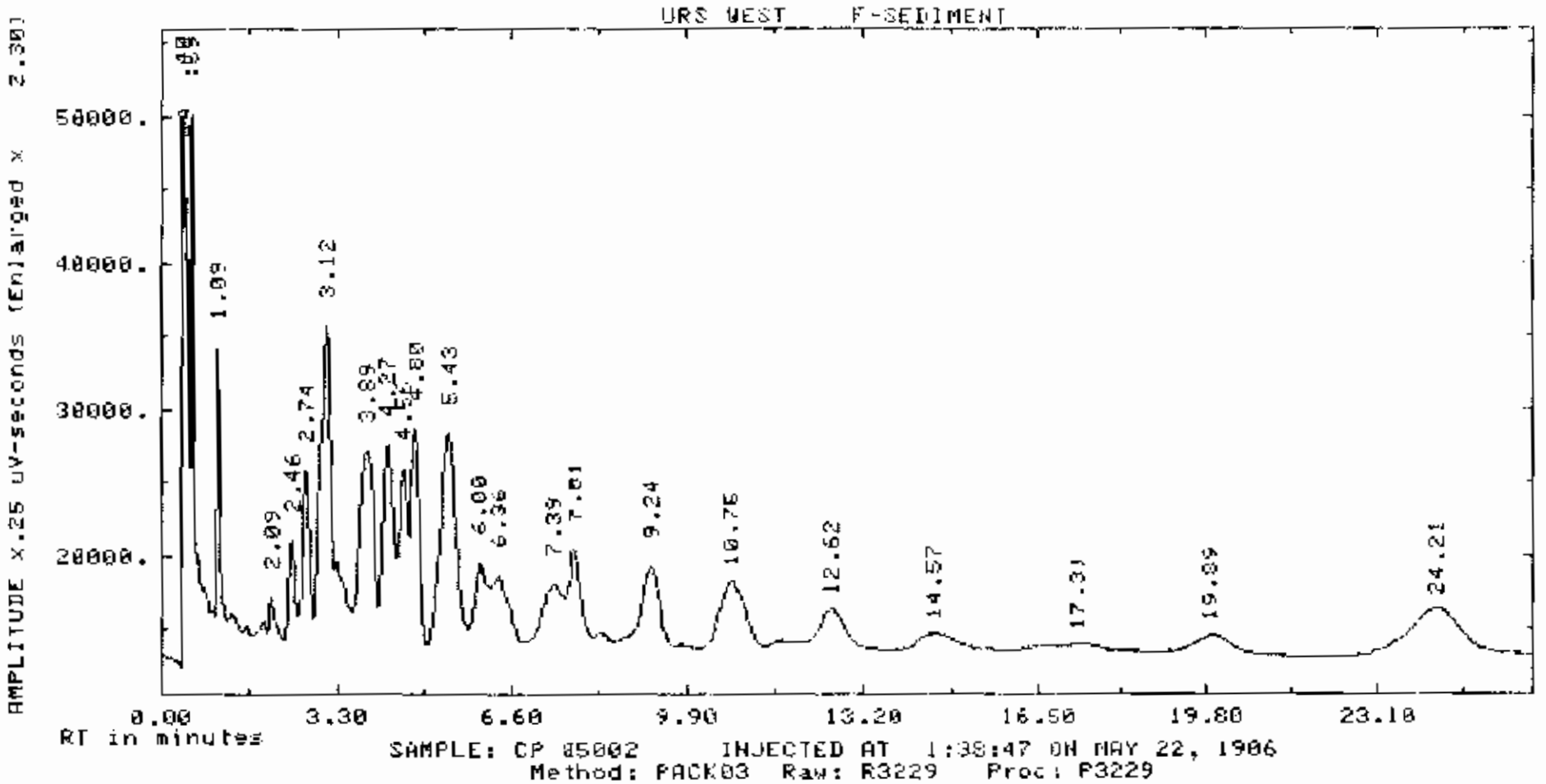
RT	ITM	AREA	RATIO	NAME
2.29674	2.32992	84315.	2.71273	+AR4874
2.81127	2.8137	379077.	2.70376	+AR4874
3.39919	3.42848	4.79112E+06	13.9989	+AR4874
3.74099	3.69942	113367.	2.18544	+AR4874
4.10838	4.10312	2.76986E+06	5.05444	+AR4874
4.72548	4.72894	1.12664E+06	4.99916	+AR4874
4.99482	5.01673	569752.	3.84647	+AR4874
6.54611	6.58455	1.32847E+06	2.44125	+AR4874
7.85653	7.86194	181129.	1.74902	+AR4874

PASS 2
MEAN =4.41008 STD DEV =3.57018 REL STD DEV =.80955 N=9
SUM OF STANDARD AREAS =1.06733E+07 SUM OF SAMPLE AREAS =1.13437E+07

RT	ITM	AREA	RATIO	NAME
2.29674	2.32992	84315.	2.71273	+AR4874
2.81127	2.8137	379077.	2.70376	+AR4874
3.74099	3.69942	113367.	2.18544	+AR4874
4.10838	4.10312	2.76986E+06	5.05444	+AR4874
4.72548	4.72894	1.12664E+06	4.99916	+AR4874
4.99482	5.01673	569752.	3.84647	+AR4874
6.54611	6.58455	1.32847E+06	2.44125	+AR4874
7.85653	7.86194	181129.	1.74902	+AR4874

PASS 3
MEAN =3.21153 STD DEV =1.18779 REL STD DEV =.369852 N=8
SUM OF STANDARD AREAS =8.96195E+06 SUM OF SAMPLE AREAS =6.55261E+06

DONE


URS WEST F-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 2.30)
50000.
40000.
30000.
20000.
1.09
2.09
2.46
2.74
3.12
3.89
4.27
4.80
5.43
6.08
6.36
7.39
7.81
9.24
10.75
12.62
14.57
17.31
19.89
24.21
0.00
3.30
6.60
9.90
13.20
16.50
19.80
23.10
RT in minutes
SAMPLE: CP 85002 INJECTED AT 1:38:47 ON MAY 22, 1986
Method: PACK03 Raw: R3229 Proc: P3229

Report: 385.00 Channel. 3 URS WEST F-SEDIMENT

Sample: CP 85002 Injected at 1:30:47 ON MAY 22, 1986

ZERO Method: PACK03 Seq: SEQ32 Subsq/Samp: 1/29 Btl: 29

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	.300	0.00	5000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%D11-f	Iso
NO	0.00	0	.30	5.0	500.00	NO

Actual run time: 26.008 minutes

Ended not on baseline

RT	ITM	Factor	Area		AREA %	Name
.40	0.00	.10000E+01	83104.	BB	36.975	
.49	0.00	.10000E+01	7850.	BB	3.493	
.59	0.00	.10000E+01	67026.	BB	29.821	
1.09	0.00	.10000E+01	33928.	BB	15.095	
2.09	0.00	.10000E+01	8364.	BB	3.721	
2.46	0.00	.10000E+01	17935.	BB	7.980	
2.74	0.00	.10000E+01	40566.	BB	18.049	
3.12	0.00	.10000E+01	101620.	BB	45.213	
3.89	0.00	.10000E+01	83433.	BB	37.121	
4.27	0.00	.10000E+01	45668.	BB	20.319	
4.56	0.00	.10000E+01	19461.	BB	8.659	
4.80	0.00	.10000E+01	43363.	BB	19.293	
5.43	0.00	.10000E+01	128433.	BB	57.143	
6.00	0.00	.10000E+01	16797.	BB	7.473	
6.36	0.00	.10000E+01	13809.	BB	6.144	
7.39	0.00	.10000E+01	12210.	BB	5.433	
7.81	0.00	.10000E+01	33332.	BB	14.830	
9.24	0.00	.10000E+01	65275.	BB	29.042	
10.75	0.00	.10000E+01	73740.	BB	32.809	
12.62	0.00	.10000E+01	37750.	BB	16.796	
14.57	0.00	.10000E+01	27813.	BB	12.375	
17.31	0.00	.10000E+01	18814.	BB	8.371	
19.89	0.00	.10000E+01	30803.	BB	13.705	
24.21	0.00	.10000E+01	112692.	BF	50.139	

Total Area = 1123786. Total AREA % = 112691.750

Processed data file: P3229 Raw data file: R3229

REPORT: 385.21 CHANNEL: 3

SAMPLE: CP 85002 INJECTED AT 1:38:47 ON MAY 22, 1986

ESTD METHOD: AR4832 SEQ: SEQ32 SUBSQ/SAMP: 1/ 29 BTL: 29

.-WDTH	MV/MIN	DELAY	MIN-AR	BUNCH
.500	.300	0.00	5000	AUTO

SUP-UNK	DVT	ID-LVL	REF-RTW	%RTW	%DIL-F	I
YES	0.00	0	.300	5.000	500.00	NO

ACTUAL RUN TIME: 26.008 MINUTES

ENDED NOT ON BL

RT	ITM	FACTOR	AREA		RATIO	NAME
2.46			513264	**	64.571	+AR4832

TOTAL AREA = 1123786 * TOTAL RATIO = 3052673.46

SUMMED PEAK COMPONENTS

RT	ITM	FACTOR	AREA		RATIO	NAME
2.46	2.45	4.0832E- 5	17935	BB	3.662	+AR4832
2.74	2.70	6.6164E- 5	40566	BB	13.420	+AR4832
3.12	3.13	1.8742E- 5	101620	BB	9.523	+AR4832
3.89	3.87	1.3411E- 5	83432	BB	5.595	+AR4832
4.27	4.29	2.3091E- 5	45668	BB	5.273	+AR4832
4.56	4.58	2.4427E- 5	19461	BB	2.377	+AR4832
5.43	5.43*	5.7802E- 6	128433	BB	3.712	*+AR4832
6.00	6.02	2.0040E- 5	16797	BB	1.683	+AR4832
6.36	6.39	1.1097E- 4	13808	BB	7.662	+AR4832
7.39	7.41	6.0789E- 5	12210	BB	3.711	+AR4832
7.81	7.85	4.7724E- 5	33332	BB	7.954	+AR4832

PROCESSED DATA FILE: P3229 RAW DATA FILE: R3229

PASS 1
MEAN =6.08588 STD DEV =3.42255 REL STD DEV =.562376 N=10
SUM OF STANDARD AREAS =348086. SUM OF SAMPLE AREAS =384831.

RT	ITM	AREA	RATIO	NAME
2.45737	2.44874	17935.2	3.66168	+AR4832
3.11523	3.12785	101620.	9.52289	+AR4832
3.89208	3.86786	83432.5	5.59476	+AR4832
4.27394	4.28613	45668.	5.27256	+AR4832
4.55711	4.57715	19461.1	2.37686	+AR4832
6.00445	6.02187	16796.5	1.68298	+AR4832
6.35507	6.38762	13808.5	7.66197	+AR4832
7.39062	7.4111	12210.1	3.71121	+AR4832
7.8065	7.85221	33332.2	7.9537	+AR4832

PASS 2
MEAN =5.27096 STD DEV =2.52476 REL STD DEV =.478995 N=9
SUM OF STANDARD AREAS =332972. SUM OF SAMPLE AREAS =344265.

DONE

Analysis Worksheet

CompuChem Number 85002 Case# URS WEST EPA# FSED

Volume/weight extracted = 30.45 g Final Extract Volume = 2.00 ml Split = 10.0 Dry Weight Factor = 1.75

$$\text{Concentration} = \frac{\text{Sample Area} * \text{Standard Conc} * \text{Dilution} * \text{Split} * \text{Final Volume} * \text{Dry Weight Factor}}{\text{Standard Area} * \text{Volume or Weight of Sample}}$$

File : P7434 Column : MIXED Dilution Factor : 5.0 Detection Level Factor : 1.72

Aroclor - 1248	Standard RT window - 5.50 - 5.73		Sample RT -	5.60	Primary/Reported DADS
	Standard Area -	8961950	Sample Area -	6552610	
	Standard Conc(ug/ml) -	0.400	Sample Conc(ug/Kg) -	1680.63	

File : P3229 Column : OV-101 Dilution Factor : 5.0 Detection Level Factor : 1.72

Aroclor - 1248	Standard RT window - 5.30 - 5.52		Sample RT -	5.43	Confirmation
	Standard Area -	332972	Sample Area -	344265	
	Standard Conc(ug/ml) -	0.400	Sample Conc(ug/Kg) -	2376.82	

Analyst Comments:

this sample appears to have had PCB 1242/ PCB1254 in it also but due to weathering PCB1248 stands out.

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB'S ONLY IN PLATINUM FORM
CASE#: URS WEST DUE DATE: 6/11/86

VOA
C/MS WORKSHEET COMPUCHEM#: 85002

R1[ ] R2[ ] D1[ ] (:1)
R3[ ] R4[ ] D2[ ] (:1)

LOW LEVEL SOLID

Sample Prep Code---155
Instrument Code----2E7
Compound List------146
Surrogate Std------394
Internal Std-------036

SAS: EPA#: F-SEDIMENT Dry Weight Factor 1.25

GC/MS ANALYSIS
Amount Purged: [X] 10mls/Xg soil or [ ]Dilution_____ul/10000ul/Xg soil
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BFB0514B Disk(3490)
Blank Filename [illegible] Disk ( )
Standard Filename [illegible] Disk ( )
Sample Filename [illegible] Disk ( )

ANALYST(S): Injection 5/9 Work-up 5/9

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,ES,SM,JS,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR
IF,LA,DI,CO,RN,DW,SI,SF
UP,BB,OT,VC,FO,NS

Disposition: [X] Complete

Extraneous Peak Search Results:
# of Peaks Found: 0

[ ] Reprep neat required

[ ] Reprep using_____g

Quality Assurance Notice(s):
Notices Required_____

[ ] Dilute (:1)

COMMENTS:

GC/MS Review [signature] Date 5/15/86 Auditor_____Date____/____/____

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): GH085002A16 /

QA COMMENTS:

Initials_____ Date____/____/____

FINAL REVIEW: Initials_____ Date____/____/____

AC387 (09/85)

[signature]

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB'S ONLY IN PLATINUM FORM

CASE#: URS WEST DUE DATE: 6/11/86

SEMI-VOLATILE GC/MS WORKSHEET COMPUCHEM#: 85002

JC] RC] DC] (:1)

J2C] R2C] D2C] (:1)

LOW LEVEL SOLID

Sample Prep Code--- -717
Instrument Code------255
Compound List--------172
Surrogate Std--------393
Internal Std---------035

SAMPLE ID/EPA#: F-SEDIMENT Dry Weight Factor 1.75

GC/MS ANALYSIS

Volumes mixed: BN _____ ul Acid 200 ul

Internal Standard Volume Added 5.0 ul

Mixed Sample Volume Injected 1.0 ul

Date of Sample Bottle Analyzed 5/3/86

DFTPP Filename DH8605161015 Disk (3117)

Standard Filename HG8605161015 Disk ( )

Sample Filename GH085002A15 Disk ( )

ANALYST(S): Injection 876 Work-up 876

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,DA ED,IF,LA,DI,CO,RN,DW,NS

PA805/19

Disposition: [✓] Complete

Extraneous Peak Search Results:

# of Peaks Found: (11) CLIST missing Please regenerate 5/20/86

[ ] Reinjection required

# of Hits: (5)

[ ] Reextraction required

# of Surrogate Outliers: 0

[ ] Dilute (:1)

[ ] Reinject Neat

Quality Assurance Notice(s):

[ ] Send to QA

Notices Required 0

GC/MS Review _____ Date ___/___/___ Auditor [signature] Date 5/20/86

REPORT INTEGRATION Total # of Injections: (1)

Final Reportable Package(s): GH085002A15 /

QA COMMENTS:

Initials _____ Date ___/___/___

FINAL REVIEW: Initials [signature] Date ___/___/___

AC385 (07/85)

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB'S ONLY IN PLATINUM FORM
CASE # URS WESTDATE DUE 6/11/86

PESTICIDE WORKSHEET

COMPUCHEM # 85002
Sample Prep Code---716
Instrument Code----124
Compound List------177
Surrogate Std------396

LOW LEVEL SOLID

SAS: ID#: F-SEDIMENT Dry Weight Factor
Blank Associated with Case _____ _____ _____ 1.75
Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes |___|

Wt. of sample 30.45g final volume of extract 2.0 mls

portion of wt. in pesticide 1/10

ANALYSIS INFORMATION: COMMENTS

|___| Send to QA

|___| QA Approved

|___| Need QC/MS Confirmation

PCB 1248

Date	Inst. # / Sequence	Dil. Fact.	
5-16	7	74	5
5-22	3	32	5
___	___	___	___

Analyst 924/899 Date 5-23-86

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE 2272 X Dilution Factor 5 X 100 = 72 % Recovery
AREA IN STD 15762
% Recovery X 0.1 ug/ml = .072 ug/ml

+EA = re-extract acceptable
JA = reinject acceptable
QA = repeat confirmed original results
OK = original data acceptable (not for REPEATS)
NS = insufficient sample for repeat
OL = DBC low (<20% Recovery)
OA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.

FINAL STATUS CODE+= | OK |

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

|___| QANA |___| QAN2 QA notice included.

SAMPLE DISPOSITION Code

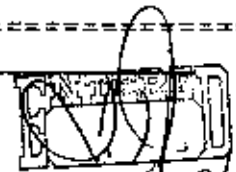
|___| Complete.....

|___| Requires Re-extraction.. 716

|___| Requires reprep..... 930

|___| Requires cleanup..... 901

Audited By _____ Date _____



(19)

VOLATILE PREP WORKSHEET

№ 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
84986	-155	WRS WEST			5.07g	5-13-86					ENT
84988	"	"	BS		0ml	"					
84989	"	"	SS	84986	5.07g	"					
84990	"	"			5.01g	"					ENT
84991	"	"	SS	84990	5.01g	"					
85000	"	"			5.02g	"					ENT
85001	"	"			5.07g	"					ENT
85002	"	"			5.00g	"					ENT
85003	"	"			5.01g	"					ENT
85004	"	"			5.09	"					ENT
85005	"	"			5.09	"					ENT
85028			B		5.0ml	5-13-86					
85029			B		0ml	5-13-86					
			B								

Surrogate No. /

Amount

Lot /

MBy 5-13-86

Schedule Reference

Manual Counter 2781 715

(47)

VOLATILE PREP WORKSHEET

№ 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
84986	-158	URS WEST			20.09g	5-13-86			✓		ENT
84987			BS		40 ml				✓		
84990					20.06g				✓		ENT
85000					20.02g				✓		ENT
85001					20.07g				✓		ENT
85002					20.02g				✓		ENT
85003					20.05g				✓		ENT
85004					20.10g				✓		ENT
85005					20.01				✓		ENT
85034			B		40 ml	5-13-86			✓		
85035			B		40 ml	5-13-86			✓		
			B								

PREPARED 5/14

Surrogate No. # 381
Amount 200 µl
Lot 12471

MA 5/13/86

Schedule Reference
Manual Counter 288/472

EXTRACTION WORKSHEET

Semi-Volatiles/Miscellaneous

ASSIGNED TO: Linda L.A.P.

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	FINAL EXTRACT VOL. (MLS) SV B/N	FINAL EXTRACT VOL. (MLS) ACID	FINAL EXTRACT VOL. (MLS) PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
84992	-153	WKSwet	N/A	BS		30.00	1ml	—		—			5/13	
84993	-717	WKSwet		BS		30.00	—	0.9		1ml			5/13	
84994		WKSwet		SS	84001	30.58	—	0.9		1ml			5/13	277-499
84995		WKSwet		SS	84001	30.32	—	0.9		1ml			5/13	
84986		WKSwet				30.89	1ml	0.9		1ml			5/13	
84990						30.34	1ml	0.9		1ml			5/13	
85000						30.11	1ml	0.9		1ml			5/13	
85001						30.82	1ml	0.9		1ml			5/13	
85002						30.45	1ml	0.9		1ml			5/13	
85003						30.85	1ml	0.9		1ml			5/13	

Blanks 85702, 85703 on Bf 9782 along w/other samples

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17914			17616		
SPIKE	NO.		3012	2021			
	AMT.		1ml	1.0ml			
	LOT		11654	11711			

MANUAL COUNTER 270/613

FINAL VOLUME VERIFIED L.A.P.

SUPERVISOR REVIEWED CK

EXTRACTS RECEIVED BY 5/13/86

Finished Lot # 209

Mailed 5/13/86

№ 9781

EXTRACTION WORKSHEET
Semi-Volatiles/Miscellaneous

ASSIGNED TO: [signature]

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV / B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
85004	-717	Wswgt	N4			30.44	1ml	0.9		1.0			5/13	
85005	↓	↓	↓			30.30	1ml	0.9		1.0			5/13	
85102				B'		30.00	1ml	0.9		1.0			5/13	
85103	↓			B²		30.00	1ml	0.9		1.0			5/13	

Added surrogate on pp 9786

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			375		
	AMT.	25ul			20ul		
	LOT	17754			17646		
SPIKE	NO.						
	AMT.						
	LOT						

MANUAL COUNTER 270/613

FINAL VOLUME VERIFIED LLP

SUPERVISOR REVIEWED [initials]

EXTRACTS RECEIVED BY BT 5/13/86

Acetone Lot # 509

[signature] 5/13/86

Nº ~~82

EXTRACTION WORKSHEET
Pesticide/Herbicide

ASSIGNED TO: Lori

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ALUMINA COLUMN START VOL	ALUMINA COLUMN FINAL VOL	DATE COMPT	COMMENTS
84992	153	UKSwat	NA	BS		30.00	1.1	—		—		2x1ml		
84993	716	Ukwet		BS		30.00	—							
84994		UKwet		SS		30.58	—			1.1				
84995		UKSwat		SS		30.32	—			1.1				
84986		UKSwat	A-SEDIMENT			30.34	1.1			1.1	1.0ml	2.0ml	5.14.86	
84990			B-SEDIMENT			30.24	1.1			1.1	1.0	2.0	5.14	
85000			D-SEDIMENT			30.44	1.1			1.1	1.0	2.0	5.14	
85001			E-SEDIMENT			30.32	1.1			1.1	1.0	2.0	5.14	
85002			F-SEDIMENT			30.45	1.1			1.1	1.0	2.0	5.14	
85003			G-SEDIMENT			30.85	1.1			1.1	1.0	2.0	5.14	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17794			17686		
SPIKE	NO.		302	271			
	AMT.		1.0ml	1.0ml			
	LOT		17654	17777			

Blank 85102 / 85103 ? on 9782 along w/other samples
CASE — BN 05/14/86

MANUAL COUNTER 370/613

FINAL VOLUME VERIFIED LHR

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY 9/13/86

POSTED 5-14-86 OKS

Acetone Lot # 309

Alumina Batch 5-13-86-AL

No 978

EXTRACTION WORKSHEET
Pesticide/Herbicide

ASSIGNED TO: [illegible]

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

OKS

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ALUMINA COLUMN START VOL	ALUMINA COLUMN FINAL VOL	DATE COMPT	COMMENTS
85004	~7160	Lxsurst	H-SEDIMENT NA			[illegible]	[illegible]			10.0	10ml	2.0ml	5-14-86	
85005		UAS WEST	C-SEDIMENT			30.20	[illegible]			10.0	10	2.0	5-14	
85102				R		[illegible]	[illegible]			10.0	1.0ml	2.0ml	5-14-86	
85103	↓			RL		[illegible]	[illegible]			10.0	1.0	2.0	5-14	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	25ul		[illegible]	20ul		
	LOT	17794			12686		
SPIKE	NO.						
	AMT.						
	LOT						

All samples on 9781
Case ✓ BW 05/14/86

MANUAL COUNTER 570/613

FINAL VOLUME VERIFIED [illegible]

SUPERVISOR REVIEWED [illegible]

EXTRACTS RECEIVED BY [illegible] 5/13/86

Acetone Lot # 309

Alumina Batch 5-13-86-AL

POSTED 5-14-86 OES

№ 978

COMPUCHEM # 085002 FILE: GH085002A18 COMPOUND LIST 146 PAGE 1
VOLATILE - LOW LEVEL SOLID

	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)		DETECT. LIMIT (UG/KG)
234	128	I	BROMOCHLOROMETHANE (IS) <75	185	57500.	50.0			
221	50		CHLOROMETHANE <75-01-4> E5#				BDL		10.
220	94		BROMOMETHANE <78-83-9> E5#3				BDL		10.
231	62		VINYL CHLORIDE <75-01-4> E5				BDL		10.
209	64		CHLOROETHANE <75-00-3> E5#5				BDL		10.
222	84		METHYLENE CHLORIDE <75-09-2			20.8	36.		9.
252	43		ACETONE (2-PROPANONE) <67-6			17.4	30.	B	10.
254	76		CARBON DISULFIDE <75-15-0>				BDL		9.
216	96		1,1-DICHLOROETHYLENE <75-35				BDL		9.
214	63		1,1-DICHLOROETHANE <75-34-3				BDL		9.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL		9.
211	83		CHLOROFORM <67-66-3> E5#12			1.2	3.0	J	9.
215	62		1,2-DICHLOROETHANE <107-06-				BDL		9.
248	114	I	1,4-DIFLUOROBENZENE (IB) <5	400	231000.	50.0			
253	72		2-BUTANONE <78-93-3> E6#2				BDL		10.
227	97		1,1,1-TRICHLOROETHANE <71-5				BDL		9.
206	117		CARBON TETRACHLORIDE <56-23				BDL		9.
257	43		VINYL ACETATE <108-05-4> E6				BDL		10.
212	83		BROMODICHLOROMETHANE <75-27				BDL		9.
217	63		1,2-DICHLOROPROPANE <78-87-				BDL		9.
250	75		TRANS-1,3-DICHLOROPROPENE <				BDL		9.
229	130		TRICHLOROETHYLENE <79-01-6>				BDL		9.
208	129		CHLORODIBROMOMETHANE <124-4				BDL		9.
3	97		1,1,2-TRICHLOROETHANE <79-0				BDL		9.
3	78		BENZENE <71-43-2> E6#12				BDL		9.
218	75		CIS-1,3-DICHLOROPROPENE <10				BDL		9.
210	63		2-CHLOROETHYL VINYL ETHER <				BDL		10.
205	173		BROMOFORM <75-25-2> E6#15				BDL		9.
270	117	I	D5-CHLOROBENZENE (IS)	502	226000.	50.0			
256	43		4-METHYL-2-PENTANONE <108-1				BDL		10.
255	43		2-HEXANONE <591-78-6> E7#3				BDL		10.
224	164		TETRACHLOROETHENE <127-18-4				BDL		9.
223	83		1,1,2,2-TETRACHLOROETHANE <				BDL		9.
225	92		TOLUENE <108-88-3> E7#6				BDL		9.
207	112		CHLOROBENZENE <108-90-7> E7				BDL		9.
219	106		ETHYLBENZENE <100-41-4> E7#				BDL		9.
251	104		STYRENE <100-42-5> E7#9				BDL		9.
240	106		M-XYLENE E7#10				BDL		9.
271	106		O,P-XYLENE E7#11				BDL		9.
258	65	S	D4-1,2-DICHLOROETHANE E8#2			49.8	100.	%	
247	95	S	BROMOFLUOROBENZENE <460-00-			49.5	99.	%	
233	98	S	D8-TOLUENE E8#4			49.9	100.	%	
CHECKSUMS:									
2175.		827		1090	514500.	338.6		365.	

VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE EB#2	49.8	50.0	100.	70-121	X	
41	247	BROMOFLUOROBENZENE <460-00-	49.5	50.0	99.	74-121	X	
42	233	D8-TOLUENE EB#4	49.9	50.0	100.	81-117	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#1) BROMOCHLOROMETHANE > 10000 COUNTS	/	

CORRECTION FACTOR CALCULATION:

$$\frac{5.0\ G}{\text{WET WEIGHT OF SAMPLE (G)}} \times \text{GC/MS DILUTION FACTOR} \times \text{DRY WEIGHT FACTOR} =$$

$$\frac{5.0\ G}{5.00\ (G)} \times \frac{1.0}{} \times \frac{1.8}{} = 1.750$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

COMPUCHEM # 085002 FILE: GH085002A15 COMPOUND LIST 172 PAGE 1
SEMI-VOLATILE - LOW LEVEL SOLID

IP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	473	74700.	40.0		x1.25
610	94		PHENOL (G1#3) <108-95-2>			2.1	J	330.
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	330.
601	128		2-CHLOROPHENOL (G1#6) <95-5				BDL	330.
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	330.
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	330.
474	108		BENZYL ALCOHOL (G1#9) <100-				BDL	330.
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	330.
620	108		2-METHYLPHENOL (G1#11) <95-				BDL	330.
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	330.
622	108		4-METHYLPHENOL (G1#13) <106				BDL	330.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	330.
436	117		HEXACHLOROETHANE (G1#15) <6				BDL	330.
440	77		NITROBENZENE (G1#16) <98-95				BDL	330.
460	136	I	D8-NAPHTHALENE (IS#2)	586	286000.	40.0		
438	82		ISOPHORONE (G2#2) <78-59-1>				BDL	330.
606	139		2-NITROPHENOL (G2#3) <88-75				BDL	330.
603	122		2,4-DIMETHYLPHENOL (G2#4) <				BDL	330.
625	122		BENZOIC ACID (G2#5) <65-85-				BDL	1700.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	330.
602	162		2,4-DICHLOROPHENOL (G2#7) <				BDL	330.
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	330.
399	128		NAPHTHALENE (G2#9) <91-20-3				BDL	330.
5	127		4-CHLORDANILINE (G2#10) <10				BDL	330.
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	330.
608	107		P-CHLORO-M-CRESOL (G2#12) <				BDL	330.
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	330.
495	164	I	D10-ACENAPHTHENE (IS#3)	751	118000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	330.
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	330.
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	1700.
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	330.
478	65		2-NITROANILINE (G3#6) <88-7				BDL	1700.
425	163		DIMETHYL PHTHALATE (G3#7) <				BDL	330.
402	152		ACENAPHTHYLENE (G3#8) <208-				BDL	330.
479	138		3-NITROANILINE (G3#9) <99-0				BDL	1700.
401	153		ACENAPHTHENE (G3#10) <83-32				BDL	330.
605	184		2,4-DINITROPHENOL (G3#11) <				BDL	1700.
607	139		4-NITROPHENOL (G3#12) <100-				BDL	1700.
476	168		DIBENZOFURAN (G3#13) <132-6				BDL	330.
427	89		2,4-DINITROTOLUENE (G3#14)				BDL	330.
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	330.
424	149		DIETHYL PHTHALATE (G3#16) <				BDL	330.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	330.
432	166		FLUORENE (G3#18) <86-73-7>				BDL	330.
480	138		4-NITROANILINE (G3#19) <100				BDL	1700.
467	188	I	D10-PHENANTHRENE (IS#4)	889	146000.	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	1700.
13	169		N-NITROSODIPHENYLAMINE (G4#			2.3	J	330.
14	248		4-BROMOPHENYL PHENYL ETHER				BDL	330.
433	284		HEXACHLOROBENZENE (G4#5) <1				BDL	330.
609	266		PENTACHLOROPHENOL (G4#6) <8				BDL	1700.
444	176		PHENANTHRENE (G4#7) <85-01-				BDL	330.
403	178		ANTHRACENE (G4#8) <120-12-7				BDL	330.

SEMI-VOLATILE - LOW LEVEL SOLID

IP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	330.
431	202		FLUORANTHENE (G4#10) <206-4			1.2	J	330.
459	240	I	D12-CHRYSENE (IS#5)	1143	132000.	40.0		
445	202		PYRENE (G5#3) <129-00-0>			1.0	J	330.
415	149		BUTYLBENZYL PHTHALATE (G5#4			1.4	J	330.
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	670.
405	228		BENZO(A)ANTHRACENE (G5#6) <				BDL	330.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE			11.7 ~~17.3~~	80 ~~580.~~	330.
418	228		CHRYSENE (G5#8) <218-01-9>				BDL	330.
497	264	I	D12-PERYLENE (IS#6)	1353	138000.	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	330.
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	330.
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	330.
406	252		BENZO(A)PYRENE (G6#5) <50-3				BDL	330.
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	330.
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	330.
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	330.
619	112	S	2-FLUOROPHENOL (SS#1)			63.7 64.3	65. % 70	
612	99	S	D5-PHENOL (SS#2)			68.9 69.6	70. % 71	
447	82	S	D5-NITROBENZENE (SS#3)			31.7 32.0	64. % 64	
448	172	S	2-FLUOROBIPHENYL (SS#4)			36.6 73.4	74. % 72	
628	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			66.0 62.4	67. % 63	
6	244	S	D14-TERPHENYL (SS#6)			31.3 31.2	64. % 67	
/1	212	S	D10-PYRENE			31.5 31.5	64. % 64	
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	33.
CHECKSUMS:								
9350.	3171			5195	894700.	594.9	1048.	

SEMI-VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
72	619	2-FLUOROPHENOL (SS#1)	63.7 64.3	98.3	65.7	26-121	X	
73	612	D5-PHENOL (SS#2)	68.9 69.6	98.3	70.71	24-113	X	
74	447	D5-NITROBENZENE (SS#3)	31.7 36.2	49.2	64.74	23-120	X	
75	448	2-FLUOROBIPHENYL (SS#4)	36.6 35.4	49.2	74.72	30-115	X	
76	628	2,4,6-TRIBROMOPHENOL (SS#5)	66.0 62.4	98.3	67.63	18-123	X	
77	496	D14-TERPHENYL (SS#6)	31.3 31.2	49.2	64.64	18-137	X	
78	471	D10-PYRENE	31.5 31.5	49.2	64.64	33-128*	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS	/	

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{SPLIT FACTOR (*)}} \times \frac{30.0\text{G}}{\text{AMOUNT EXTRACTED(G)}} \times \text{DRY WEIGHT FACTOR} \times \text{GC/MS DILUTION FACTOR} \times 33.3 =$$

$$\frac{0.9\text{ML}}{0.985} \times \frac{30.0\text{G}}{30.45\text{G}} \times \frac{\cancel{1.0}\ 1.75}{1.0} \times \frac{1.0}{1.0} \times 33.3 = \cancel{33.400}\ 58.4$$

* SPLIT FACTOR = (295/300)(9/10) IF PEST/TCDD VOLUMES ARE INDICATED ON LOG
= 1 IF PEST/TCDD VOLUMES ARE NOT INDICATED ON EXTRACTION LOG

GUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\text{ UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{SPLIT FACTOR}} \times \text{GCMS DILUTION FACTOR} =$$

$$\frac{1000\text{ UL}}{500\text{ UL}} \times \frac{0.9\text{ML}}{0.885\text{ML}} \times \frac{1.0}{1.0} = 2.030$$

COMPOUND LIST NO. - 177

COMPUCHEM # 85002 DATE

IDENTIFIER PESTICIDES (LOW LEVEL SOLID)

DIL FACT_____DRY WT_____ _30__SPLIT_____FINAL VOL_____/5 = 1.75

AMT SAMPLE_____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/kg)
1.	0701	ALDRIN		8.0
2.	0702	ALPHA-BHC		8.0
3.	0703	BETA-BHC		8.0
4.	0704	GAMMA-BHC		8.0
5.	0705	DELTA-BHC		8.0
6.	0706	TECHNICAL CHLORDANE		80.0
7.	0707	4,4'-ODT		16.0
8.	0708	4,4'-DDE		16.0
9.	0709	4,4'-DDD		16.0
10.	0710	DIELDRIN		16.0
11.	0711	ENDOSULFAN I		8.0
12.	0712	ENDOSULFAN II		16.0
13.	0713	ENDOSULFAN SULFATE		16.0
14.	0714	ENDRIN		16.0
15.	0739	ENDRIN KETONE		16.0
16.	0716	HEPTACHLOR		8.0
17.	0717	HEPTACHLOR EPOXIDE		8.0
18.	0726	METHOXYCHLOR		80.0
19.	0724	AROCHLOR 1016		80.0
20.	0720	AROCHLOR 1221		80.0
21.	0721	AROCHLOR 1232		80.0
22.	0718	AROCHLOR 1242	~~2000~~	80.0
23.	0722	AROCHLOR 1248	1700	80.0
24.	0719	AROCHLOR 1254		160.0
25.	0723	AROCHLOR 1260		160.0
26.	0725	TOXAPHENE		160.0

ANALYST'S COMMENTS:

this sample appears to have had PCB 1242/1254 in it also, but due to weathering PCB 1248 stands out mostly -

GC SCREEN DATA SHEET

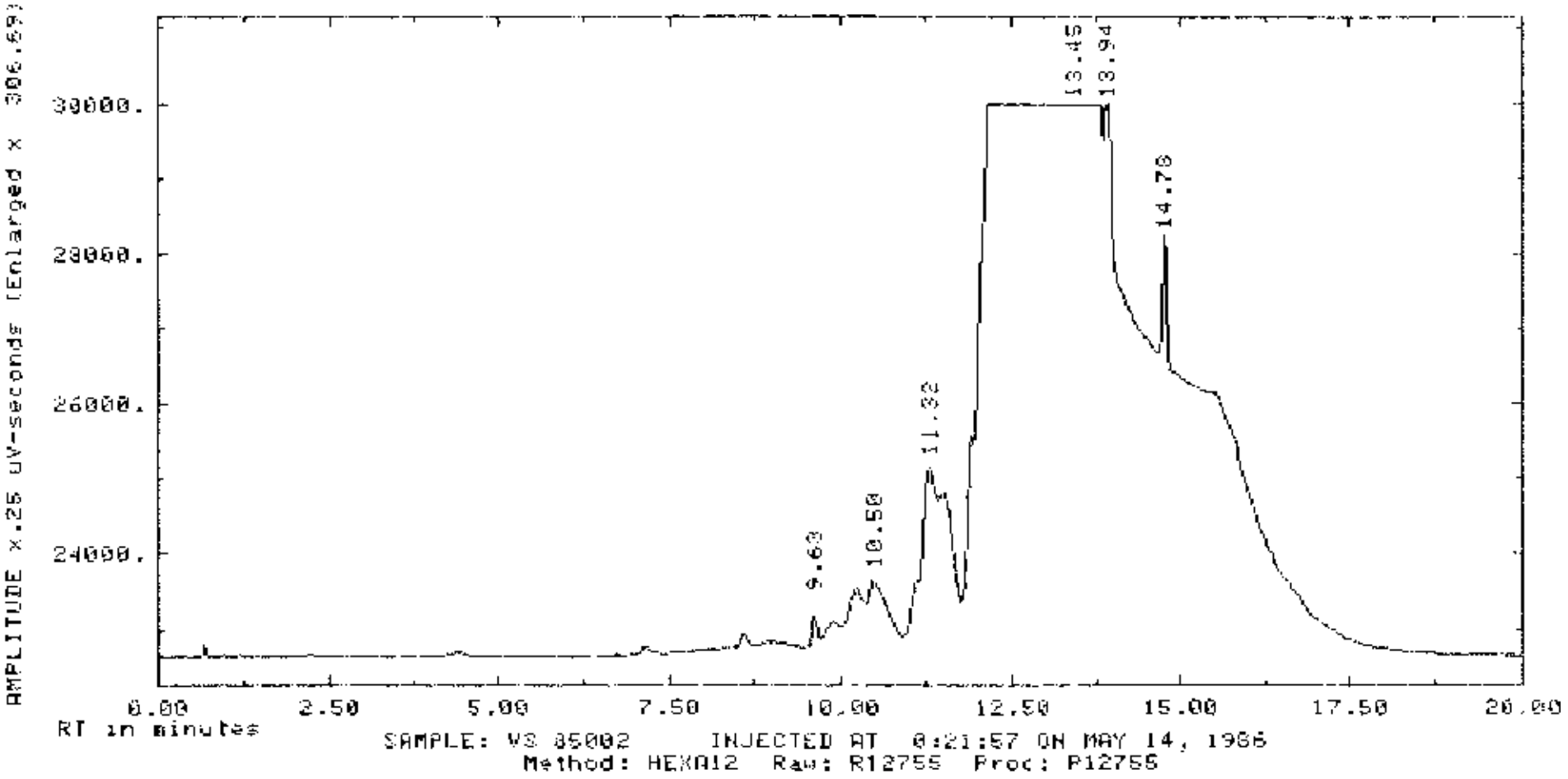
Laboratory Name CompuChem

Case Number URS WEST

Sample ID Number	Fraction	GC Detectable* Medium Level	Date of Screen	Level of GC/MS Analysis**
F-SEDIMENT 85002	VOA	NO	5/14/86	L
	B/N/A	NO	5/16/86	L
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			

*Answer Yes or No

**Indicate "M" for Medium Level GC/MS analysis.
Indicate "L" for Low Level GC/MS analysis.


AMPLITUDE x.25 uV-seconds (Enlarged x 306.69)
30000.
28000.
26000.
24000.
9.63
10.50
11.32
13.45
13.94
14.78
0.00
2.50
5.00
7.50
10.00
12.50
15.00
17.50
20.00
RT in minutes
SAMPLE: VS 85002 INJECTED AT 0:21:57 ON MAY 14, 1986
Method: HEXA12 Raw: R12755 Proc: P12755

Report: 104.00 Channel 12

Sample: VS B5002 Injected at 8:21:57 ON MAY 14, 1986

ZERO Method: HEXA12 Seq. SEQ127 Subsq/Samp: 1/55 Btl: 55

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	100	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTw	ZRTW	ZDil-F	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 20.008 minutes

RT	ITM	Factor	Area		AREA %	Name
9.63	0.00	.10000E+01	720.	BB	.001	
10.59	0.00	.10000E+01	12933.	BH	.018	
11.32	0.00	.10000E+01	31995.	HH	.044	
13.45	0.00	.10000E+01	72523872.	HS	99.927	
13.94	0.00	.10000E+01	4055.	TT	.006	
14.78	0.00	.10000E+01	3333.	TB	.005	

Total Area = 72576896. Total AREA % = 3332.500

Processed data file: P12755 Raw data file: R12755

PLIST7

SCREEN WORKSHEET

Compound # 85002

Sample Prep Code 153

Instrument Code 122

ANALYSIS INFORMATION

COMMENT:

Date	Inst	File Name	Dilution Fact.
5/16	6	P6382	1

Analyst 865 Date 5/16/86

RESULTS

Area of 50ng Phenanthrene 60593

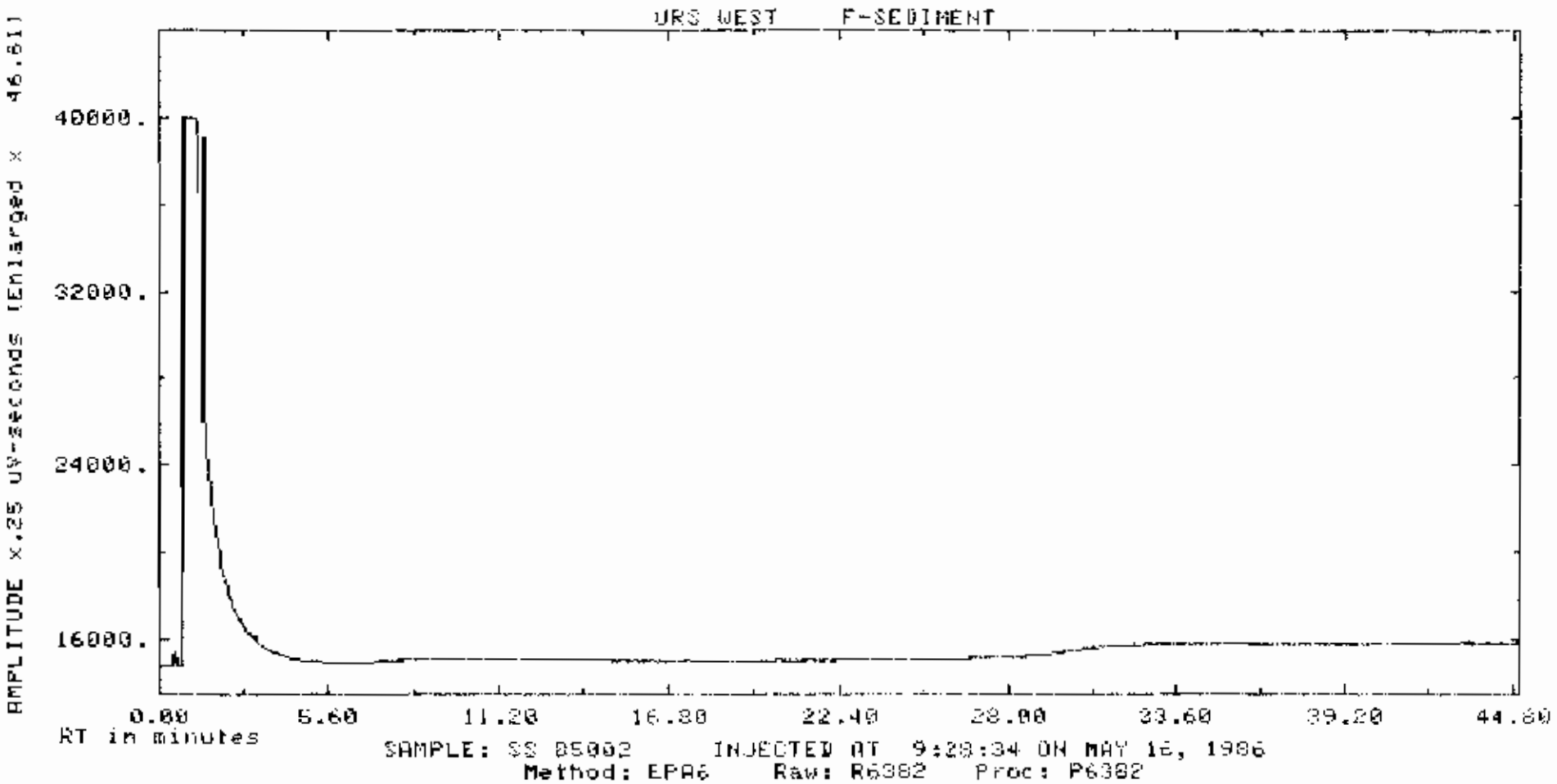
Area of Largest peak in sample 0

Phenanthrene / Largest Peak = ∞

[X] Ratio > 5.0 Analyze low level extract
Suggested dilution for GC/MS analysis 1: ___ (up to 1:5)

[ ] Ratio < 5.0 Prepare medium level extract
Schedule Analysis code 300 and 384
Suggested dilution for GC/MS analysis 1: ___

rev 9/15/84


URS WEST F-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 46.61)
40000.
32000.
24000.
16000.
0.00
5.60
11.20
16.80
22.40
28.00
33.60
39.20
44.80
RT in minutes
SAMPLE: SS 05002 INJECTED AT 9:28:34 ON MAY 16, 1986
Method: EPA6 Raw: R6382 Proc: P6382

Report: 92.00 Channel: 6 URS WEST F-SEDIMENT

Sample: SS 05002 Injected at 9:20:34 ON MAY 16, 1906

ZERO Method: EPA6 Seq: SEQ63 Subsq/Samp: 1/82 Bt1: 82

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.250	.300	3.00	1000	

Sup-Unk	DvT	ID-Lvl	Ref-RTw	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 45.012 minutes

Ended not on baseline
No peaks integrated

RT	ITM	Factor	Area	AREA %	Name

Total Area = 0. Total AREA % = 0.000

Processed data file: P6382 Raw data file: R6382

III. SAMPLE DATA PACKAGE

4

CASE NO. URS ~~TEST~~ May 1986

SAMPLE NO. E-SEDIMENT = COMPUCHEM NO. 85001

Site No. 4

A. Sample data in increasing SMO Number order:

1. Copy of Sample Traffic Report
2. HSL Results — Organic Analysis Data Sheet (Form I)
3. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.
4. Raw Data — in order: VOA, BNA, Pesticide

1. **Copy of Sample Traffic Report**

2. HSL Results — Organic Analysis Data Sheets (Form I)

Sample Number
C-BED1A6NT

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: BH085901A16
Sample matrix: solid
Data Release
Authorized By: _____

Case: USS ASST
QC Report No: _____
Contract No: PLATINUM
Date Sample
Received: 05-12-86

Volatile Compounds
Concentration: low
Date extracted/prepared: 05-13-86
Date analyzed: 05-15-86
Dmc/Dil Factor: 1.1E pH: 8.5
Percent moisture (not decanted): 17%

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	12.	U	10061-02-6	trans-1,3-Dichloropropene	5.9	U
74-83-9	Bromomethane	12.	U	79-01-6	Trichloroethene	5.9	U
75-01-4	Vinyl Chloride	12.	U	124-48-1	Dibromochloromethane	5.9	U
75-00-3	Chloroethane	12.	U	79-00-5	1,1,2-Trichloroethane	5.9	U
# 75-09-2	Methylene Chloride	15.	J	71-43-2	Benzene	5.9	U
# 67-64-1	Acetone	18.	J	10061-01-5	cis-1,3-Dichloropropene	5.9	U
75-15-0	Carbon Disulfide	5.9	U	110-75-8	2-Chloroethyl Vinyl Ether	12.	U
75-35-4	1,1-Dichloroethene	5.9	U	75-25-2	Bromoform	5.9	U
75-34-3	1,1-Dichloroethane	5.9	U	108-10-1	4-Methyl-2-pentanone	12.	U
156-60-5	trans-1,2-Dichloroethene	5.9	U	591-78-6	2-Hexanone	12.	U
67-66-3	Chloroform	5.9	U	127-18-4	Tetrachloroethene	5.9	U
107-06-2	1,2-Dichloroethane	5.9	U	79-34-5	1,1,2,2-Tetrachloroethane	5.9	U
78-93-3	2-Butanone	12.	U	108-88-3	Toluene	5.9	U
71-55-6	1,1,1-Trichloroethane	5.9	U	108-90-7	Chlorobenzene	5.9	U
56-23-5	Carbon Tetrachloride	5.9	U	100-41-4	Ethyl Benzene	5.9	U
108-05-4	Vinyl Acetate	12.	U	100-42-5	Styrene	5.9	U
75-27-4	Bromodichloromethane	5.9	U		Total Xylenes	5.9	U
78-87-5	1,2-Dichloropropane	5.9	U				

DATA REPORTING QUALIFIERS

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

Value If the result is a value greater than or equal to the detection limit then report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10ug and a concentration of 3ug is calculated, then report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10ng/ml in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: CompuChem
Case : CRS WEST

Sample Number
E-SEDIMENT

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: low
Date extracted/prepared: 05-13-86
Date analyzed: 05-16-86
Dry/Oil Factor: 39.60
Percent solature (decanted): 17%

GPC Cleanup: No
Separatory Funnel Extraction: Yes
Continuous Liquid - Liquid Extraction: No

CAS Number		ug/kg		CAS Number		ug/kg	
108-95-2	Phenol	400	U	83-32-9	Acenaphthene	400	U
111-44-4	bis(2-Chloroethyl) ether	400	U	51-28-5	2,4-Dinitrophenol	2000	U
95-57-8	2-Chlorophenol	400	U	100-02-7	4-Nitrophenol	2000	U
541-73-1	1,3-Dichlorobenzene	400	U	132-64-9	Dibenzofuran	400	U
106-46-7	1,4-Dichlorobenzene	400	U	121-14-2	2,4-Dinitrotoluene	400	U
100-51-6	Benzyl Alcohol	400	U	606-20-2	2,6-Dinitrotoluene	400	U
95-50-1	1,2-Dichlorobenzene	400	U	84-66-2	Diethylphthalate	400	U
95-48-7	2-Methylphenol	400	U	7005-72-3	4-Chlorophenyl phenyl ether	400	U
39638-32-9	bis(2-Chloroisopropyl) ether	400	U	86-73-7	Fluorene	400	U
106-44-5	4-Methylphenol	400	U	100-01-6	4-Nitroaniline	2000	U
621-64-7	N-Nitroso-Dipropylamine	400	U	534-52-1	4,6-Dinitro-2-methylphenol	2000	U
67-72-1	Hexachloroethane	400	U	86-30-6	N-nitrosodiphenylamine (1)	400	U
98-95-3	Nitrobenzene	400	U	101-55-3	4-Bromophenyl Phenyl ether	400	U
78-59-1	Isophorone	400	U	118-74-1	Hexachlorobenzene	400	U
88-75-5	2-Nitrophenol	400	U	87-86-5	Pentachlorophenol	2000	U
105-67-9	2,4-Dimethylphenol	400	U	85-01-8	Phenanthrene	400	U
65-85-0	Benzoic Acid	2000	U	120-12-7	Anthracene	400	U
111-91-1	bis(2-Chloroethoxy) methane	400	U	84-74-2	Di-n-butylphthalate	400	U
120-83-2	2,4-Dichlorophenol	400	U	206-44-0	Fluoranthene	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U	129-00-0	Pyrene	400	U
91-20-3	Naphthalene	400	U	85-68-7	Butyl Benzyl Phthalate	400	U
106-47-8	4-Chloroaniline	400	U	91-94-1	3,3'-Dichlorobenzidine	790	U
87-68-3	Hexachlorobutadiene	400	U	56-55-3	Benzo(a)anthracene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U	117-81-7	bis(2-ethylhexyl) phthalate	400	U
91-57-6	2-Methylnaphthalene	400	U	218-01-9	Chrysene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U	117-84-0	Di-n-octyl Phthalate	400	U
88-06-2	2,4,6-Trichlorophenol	400	U	205-99-2	Benzo(b)fluoranthene	400	U
95-95-4	2,4,5-Trichlorophenol	2000	U	207-08-9	Benzo(k)fluoranthene	400	U
91-58-7	2-Chloronaphthalene	400	U	50-32-8	Benzo(a)pyrene	400	U
88-74-4	2-Nitroaniline	2000	U	193-39-5	Indeno(1,2,3-cd)pyrene	400	U
131-11-3	Dimethyl Phthalate	400	U	53-70-3	Dibenz(a,h)anthracene	400	U
208-96-8	Acenaphthylene	400	U	191-24-2	Benzo(g,h,i)perylene	400	U
99-09-2	3-Nitroaniline	2000	U				

(1) Cannot be separated from Diphenylamine

Sample Number
E-SEDIMEN

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: [Low] Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Data Analyzed: 05/22/86
Conc/Dil Factor: 1.17

CAS Number		ug/l or [ug/Kg] (Circle One)	
319-84-6	Alpha - BHC	9.3	U
319-85-7	Beta - BHC	9.3	U
319-86-8	Delta - BHC	9.3	U
58-89-9	Gamma - BHC(Lindane)	9.3	U
76-44-8	Heptachlor	9.3	U
309-00-2	Aldrin	9.3	U
1024-57-3	Heptachlor Epoxide	9.3	U
959-98-8	Endosulfan I	9.3	U
60-57-1	Dieldrin	19.	U
72-55-9	4-4' - DDE	19.	U
72-20-8	Endrin	19.	U
33213-65-9	Endosulfan II	19.	U
72-54-8	4-4' - DDD	19.	U
1031-07-8	Endosulfan Sulfate	19.	U
50-29-3	4-4' - DDT	19.	U
72-43-5	Methoxychlor	93.	U
53494-70-5	Endrin Ketone	19.	U
57-74-9	Chlordane	93.	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor - 1016	93.	U
11104-28-2	Aroclor - 1221	93.	U
11141-16-5	Aroclor - 1232	93.	U
53469-21-9	Aroclor - 1242	93.	U
12672-29-6	Aroclor - 1248	93.	U
11097-69-1	Aroclor - 1254	190	U
11096-82-5	Aroclor - 1260	190	U

V(i) = Volume of extract injected (ul)
V(e) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(s) _____ or W(s) 30.82 V(t) 2000.00 V(i) 1.0

Sample Number
E-SEDIMEN

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: [Low] Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Data Analyzed: 05/16/86
Conc/Dil Factor: 1.17

CAS Number		ug/l or [ug/Kg] (Circle One)	
319-84-6	Alpha - BHC	9.3	U
319-85-7	Beta - BHC	9.3	U
319-86-8	Delta - BHC	9.3	U
58-89-9	Gamma - BHC(Lindane)	9.3	U
76-44-8	Heptachlor	9.3	U
309-00-2	Aldrin	9.3	U
1024-57-3	Heptachlor Epoxide	9.3	U
959-98-8	Endosulfan I	9.3	U
60-57-1	Dieldrin	19.	U
72-55-9	4-4' - ODE	19.	U
72-20-8	Endrin	19.	U
33213-65-9	Endosulfan II	19.	U
72-54-8	4-4' - DDD	19.	U
1031-07-8	Endosulfan Sulfate	19.	U
50-29-3	4-4' - DDT	19.	U
72-43-5	Methoxychlor	93.	U
53494-70-5	Endrin Ketone	19.	U
57-74-9	Chlordane	93.	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor - 1016	93.	U
11104-28-2	Aroclor - 1221	93.	U
11141-16-5	Aroclor - 1232	93.	U
53469-21-9	Aroclor - 1242	93.	U
12672-29-6	Aroclor - 1248	93.	U
11097-69-1	Aroclor - 1254	190	U
11096-82-5	Aroclor - 1260	190	U

V(i) = Volume of extract injected (ul)
V(s) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(a) _____ or W(s) 30.82 V(t) 2000.00 V(i) 5.0

3. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found: if so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found ")

Laboratory Name: CompuChem Laboratories

Case No: URS WEST

Sample Number: E-SEDIMENT

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOLATILE COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SAMPLE NUMBER E-SEDIMENT/

COMPUCHEM FILE G2J85001B15

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	625-06-9	acetone condensation 2-PENTANOL, 2,4-DIMETHYL-	SEMI2	345	3200.	J B
2	10544-50-0	sulfur SULFUR, MOL. (S8)	SEMI2	771	140 160.	J
~~3~~	~~67401-10-9~~	~~2-PROPENOIC ACID, 3-BICYCLO[2.2.1]HEPT-5-EN-2-YL-, 1~~	SEMI2	970	2000.	J
4	10544-50-0	sulfur SULFUR, MOL. (S8)	SEMI2	974	1300 1100.	J

~~33.000~~ 40.00

37.6

SPECTROSCOPIST [signature]

DATE 5/19/86

4. Raw Data — in order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatograms(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)
- Calibration plots (area vs. Concentration) for 4,4'-DDT, 4,4'-DDD, 4,4'-DDE, or taxaphene (where appropriate)

c Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

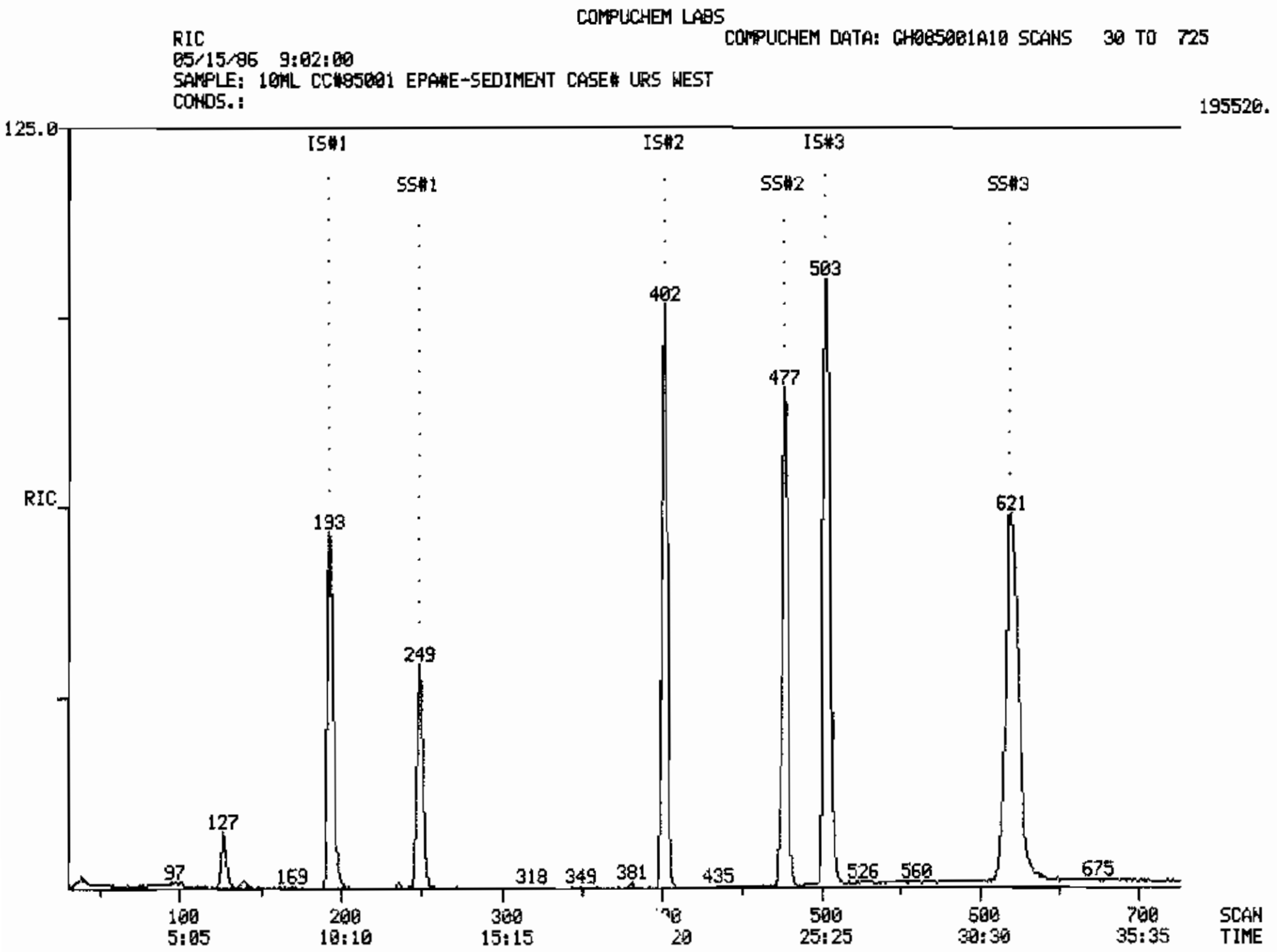
d. GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e Quantitation/Calculation of tentative ID concentration(s)

f Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GH085001A10 SCANS 30 TO 725
05/15/85 9:02:00
SAMPLE: 10ML CC#85001 EPA#E-SEDIMENT CASE# URS WEST
CONDS.:
195520.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
402
503
477
193
249
621
127
97
169
318
349
381
435
526
560
675
RIC
100
5:05
200
10:10
300
15:15
20
500
25:25
600
30:30
700
35:35
SCAN
TIME

METHOD: E23B FILENAME: 8H085001A18 DATE: 05/15/86
SHIFT STD: 8986D515C18 TIME: 9:02

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1	57979.	68161.	-15.	PASS
*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E6#1	240889.	277912.	-13.	PASS
*270 D5-CHLOROBENZENE (IS)	235857.	268284.	-12.	PASS

```
QUANTITATION REPORT    FILE: GH085001A1

DATA: GH085001A18.TI
05/15/86  9:02:00
SAMPLE: 10ML CC#85001 EPA#E-SEDIMENT CASE# URS WEST
COMMENTS:
SUBMITTED BY: 18            ANALYST: B19

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

 NO  NAME
  1  *234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1
  2   221 CHLOROMETHANE <75-01-4> E5#2
  3   220 BROMOMETHANE <78-83-9> E5#3
  4   231 VINYL CHLORIDE <75-01-4> E5#4
  5   209 CHLOROETHANE <75-00-3> E5#5
  6   222 METHYLENE CHLORIDE <75-09-2> E5#6
  7   252 ACETONE (2-PROPANONE) <67-64-1> E5#7
  8   254 CARBON DISULFIDE <75-15-0> E5#8
  9   216 1,1-DICHLOROETHYLENE <75-35-4> E5#9
 10   214 1,1-DICHLOROETHANE <75-34-3> E5#10
 11   226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E5#11
 12   211 CHLOROFORM <67-66-3> E5#12
 13   215 1,2-DICHLOROETHANE <107-06-2> E5#13
 14  *248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E6#1
 15   253 2-BUTANONE <78-93-3> E6#2
 16   227 1,1,1-TRICHLOROETHANE <71-55-6> E6#3
 17   206 CARBON TETRACHLORIDE <56-23-5>
 18   257 VINYL ACETATE <108-05-4> E6#5
  9   212 BROMODICHLOROMETHANE <75-27-4> E6#6
  0   217 1,2-DICHLOROPROPANE <78-87-5> E6#7
 21   250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E6#8
 22   229 TRICHLOROETHYLENE <79-01-6> E6#9
 23   208 CHLORODIBROMOMETHANE <124-48-1> E6#10
 24   228 1,1,2-TRICHLOROETHANE <79-00-5> E6#11
 25   203 BENZENE <71-43-2> E6#12
 26   218 CIS-1,3-DICHLOROPROPENE <10061-01-5> E6#13
 27   210 2-CHLOROETHYL VINYL ETHER <110-75-8> E6#14
 28   205 BROMOFORM <75-25-2> E6#15
 29  *270 D5-CHLOROBENZENE (IS)
 30   256 4-METHYL-2-PENTANONE <108-10-1> E7#2
 31   255 2-HEXANONE <591-78-6> E7#3
 32   224 TETRACHLOROETHENE <127-18-4> E7#4
 33   223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E7#5
 34   225 TOLUENE <108-88-3> E7#6
 35   207 CHLOROBENZENE <108-90-7> E7#7
 36   219 ETHYLBENZENE <100-41-4> E7#8
 37   251 STYRENE <100-42-5> E7#9
 38   240 M-XYLENE E7#10
 39   271 O,P-XYLENE E7#11
 40  #258 D4-1,2-DICHLOROETHANE E8#2
 41  #247 BROMOFLUOROBENZENE <460-00-4> E8#3
 42  #233 D8-TOLUENE E8#4

 NO  M/E  SCAN   TIME  REF   RRT  METH     AREA(HGHT)  AMOUNT          %TOT
  1  128   193   9:49   1  1.000  A BV       57979.    50.000 UG/KG  16.24
  2   50   NOT FOUND
```

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	127	6:27	1	0.658	A BB	13538.	12.688	UG/KG	4.12
7	43	140	7:07	1	0.725	A BB	5702.	13.630	UG/KG	4.43
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	236	12:00	1	1.223	A BB	2854.	1.080	UG/KG	0.35
13	62	NOT FOUND								
14	114	402	20:26	14	1.000	A BB	24D889.	50.000	UG/KG	16.24
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	NOT FOUND								
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	503	25:34	29	1.000	A BB	235857.	50.000	UG/KG	16.24
30	43	NOT FOUNO								
1	43	NOT FOUND								
2	164	NOT FOUND								
33	83	NOT FOUND								
34	92	NOT FOUNO								
35	112	NOT FOUND								
36	106	NOT FOUND								
37	104	NOT FOUND								
38	106	NOT FOUND								
39	106	NOT FOUNO								
40	65	249	12:39	1	1.290	A BB	80562.	45.236	UG/KG	14.69
41	95	621	31:34	29	1.235	A BB	166459.	42.714	UG/KG	13.87
42	98	477	24:15	1	2.472	A BB	188254.	42.583	UG/KG	13.03

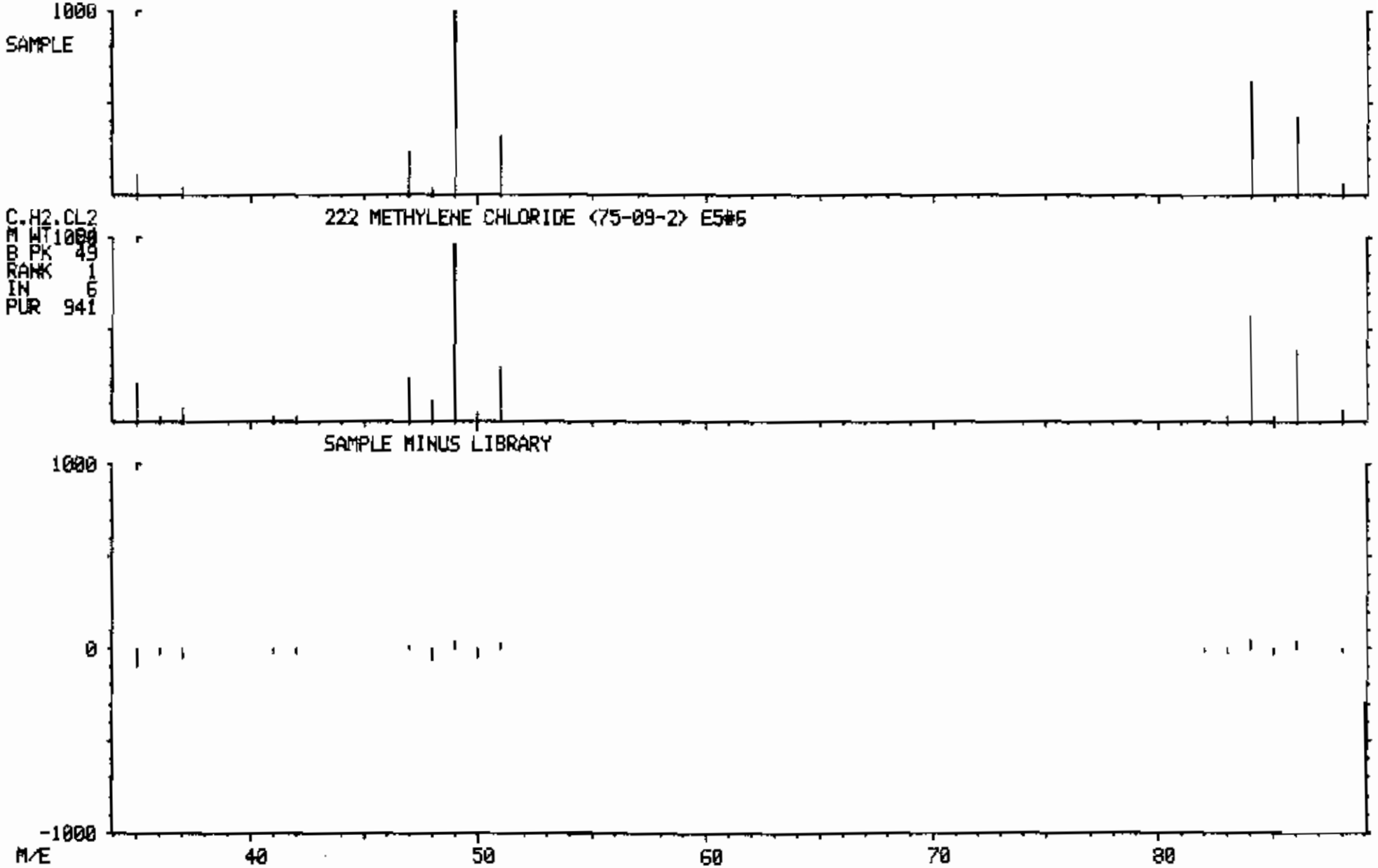
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:43	1.01	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:41		10.000			50.00		0.925	
3	2:36		10.000			50.00		1.296	
4	3:15		10.000			50.00		0.885	
5	4:10		10.000			50.00		0.489	
6	6:15	1.03	5.000	0.13	12.69	50.00	0.233	0.920	0.25
7	6:55	1.03	10.000	0.07	13.63	50.00	0.098	0.361	0.27
8	7:56		5.000			50.00		1.773	
9	9:12		5.000			50.00		0.973	
10	10:34		5.000			50.00		1.597	
11	11:17		5.000			50.00		1.088	
12	11:54	1.01	5.000	0.24	1.08	50.00	0.049	2.278	0.02
3	12:39		5.000			50.00		1.678	
14	20:20	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:33		10.000			50.00		0.029	
16	13:59		5.000			50.00		0.504	
17	14:23		5.000			50.00		0.671	
3	14:32		10.000			50.00		0.289	
19	14:57		5.000			50.00		0.577	
20	16:19		5.000			50.00		0.282	
21	16:37		5.000			50.00		0.441	
22	17:11		5.000			50.00		0.477	
23	17:47		5.000			50.00		0.684	
24	17:54		5.000			50.00		0.331	
25	17:41		5.000			50.00		0.696	
26	17:57		5.000			50.00		0.331	
27	19:01		10.000			50.00		0.211	
28	20:35		5.000			50.00		0.551	
29	25:31	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:06		10.000			50.00		0.444	
31	22:40		10.000			50.00		0.328	
32	23:02		5.000			50.00		0.492	
33	22:56		5.000			50.00		0.623	
34	24:21		5.000			50.00		0.563	
35	25:37		5.000			50.00		0.904	
36	28:07		5.000			50.00		0.447	
37	33:21		5.000			50.00		0.753	
38	33:48		5.000			50.00		0.485	
39	35:11		5.000			100.00		0.450	
40	12:33	1.01	10.000	0.13	45.24	50.00	1.390	1.536	0.90
41	31:25	1.00	10.000	0.12	42.71	50.00	0.706	0.826	0.85
42	24:12	1.00	10.000	0.25	42.58	50.00	3.247	3.812	0.85

COMPUCHEM LABS

LIBRARY SEARCH
05/15/86 9:02:00 + 6:27
SAMPLE: 10ML CC#85001 EPA#E-SEDIMENT CASE# URS WEST
ENHANCED (S 15B 2N 0T)

DATA: GH085001A18 # 127
BASE M/E: 49
RIC: 13791.

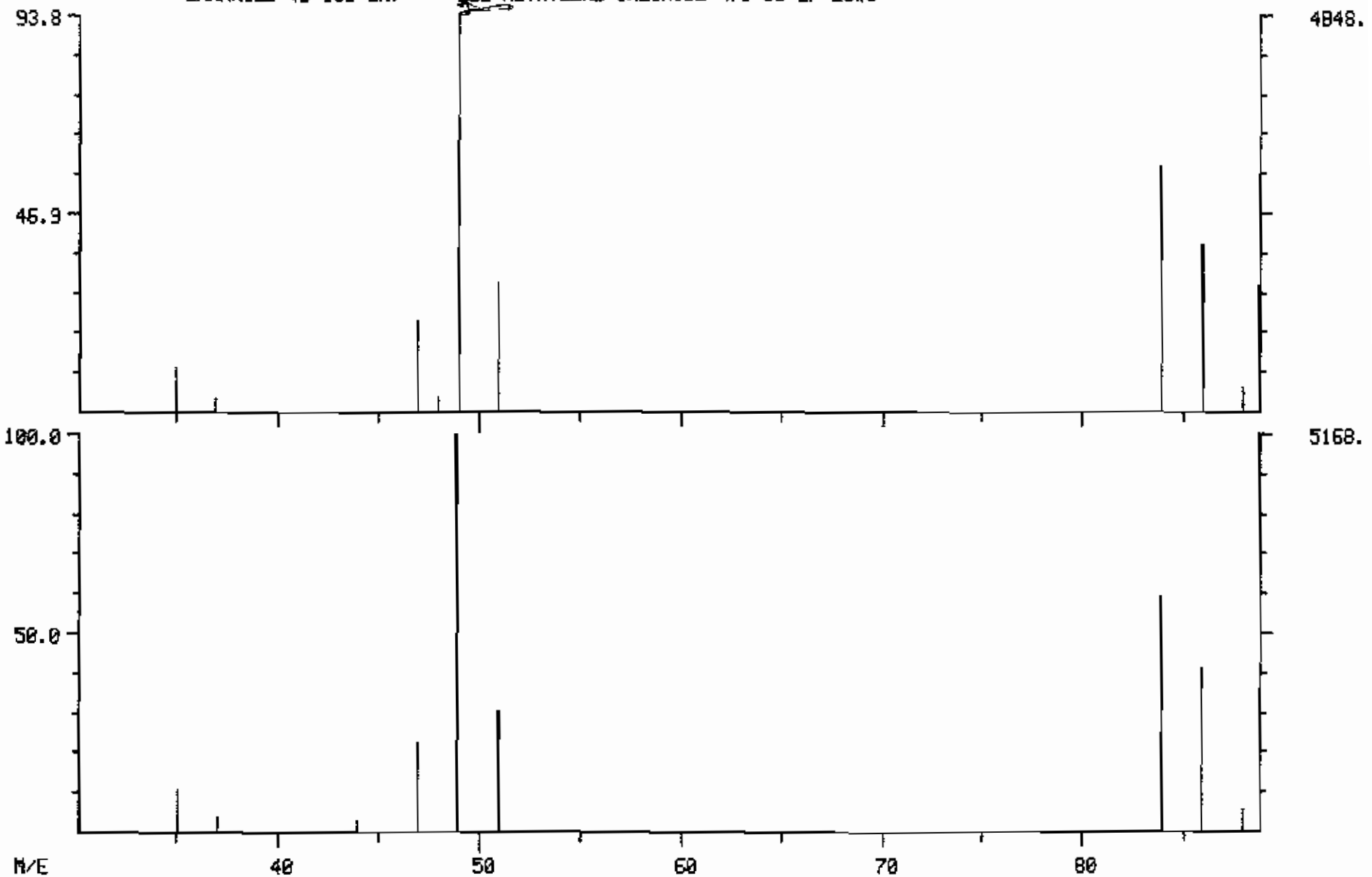


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/15/86 9:02:00 + 6:27
SAMPLE: 10ML CC#05001 EPA#E-SEDIMENT CASE# URS WEST
ENHANCED (S 15B 2N)

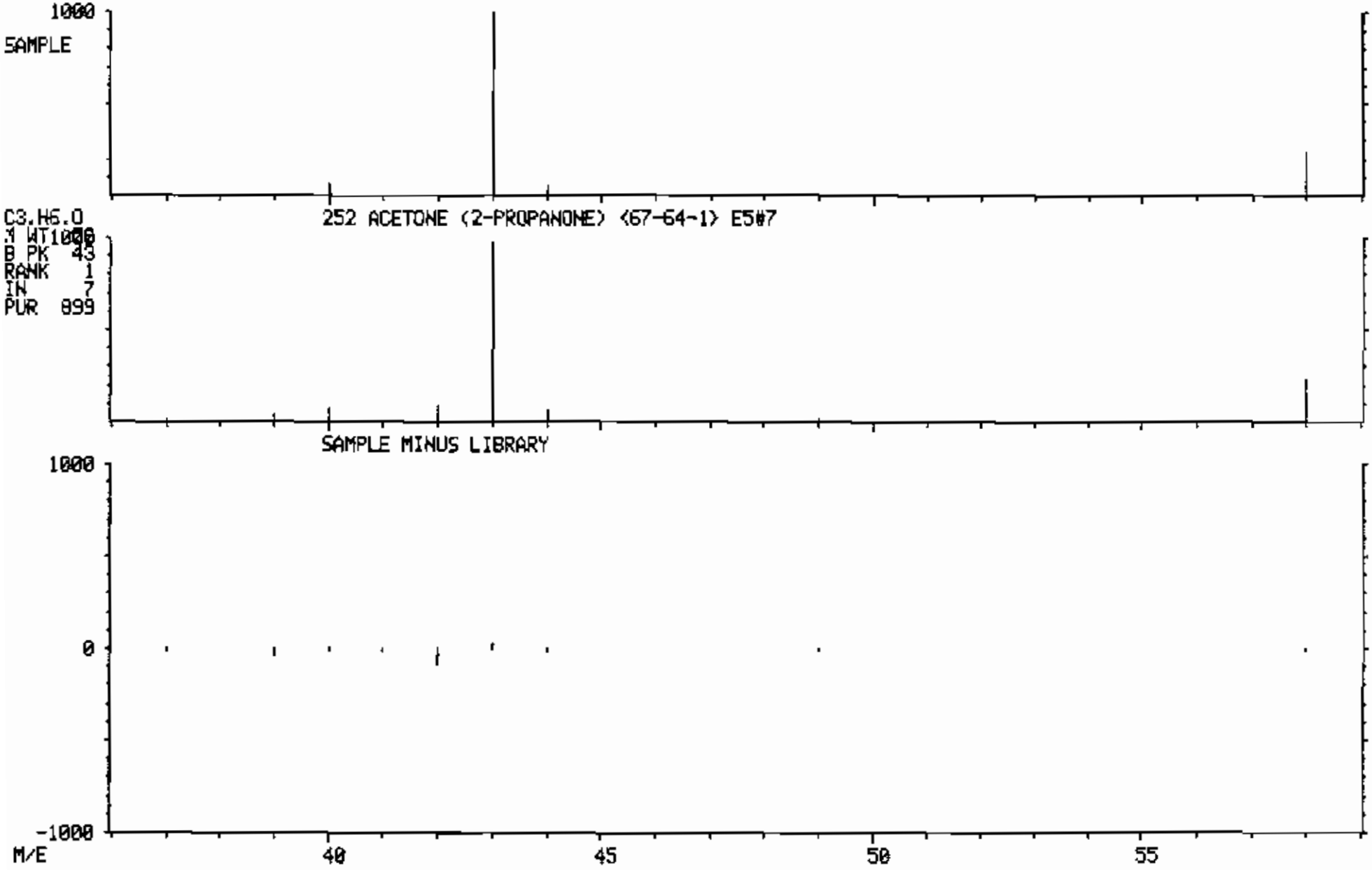
DATA: GH05001A18 #127 BASE M/E: 49/ 49
RIC: 13791./ 14271.

222 METHYLENE CHLORIDE (75-09-2) E5#6



COMPUCHEM LABS

LIBRARY SEARCH DATA: GH085001A18 # 140 BASE M/E: 43
05/15/86 9:02:00 + 7:07 RIC: 1933.
SAMPLE: 10ML CC#85001 EPA#E-SEDIMENT CASE# URS WEST
ENHANCED (S 15B 2N 0T)



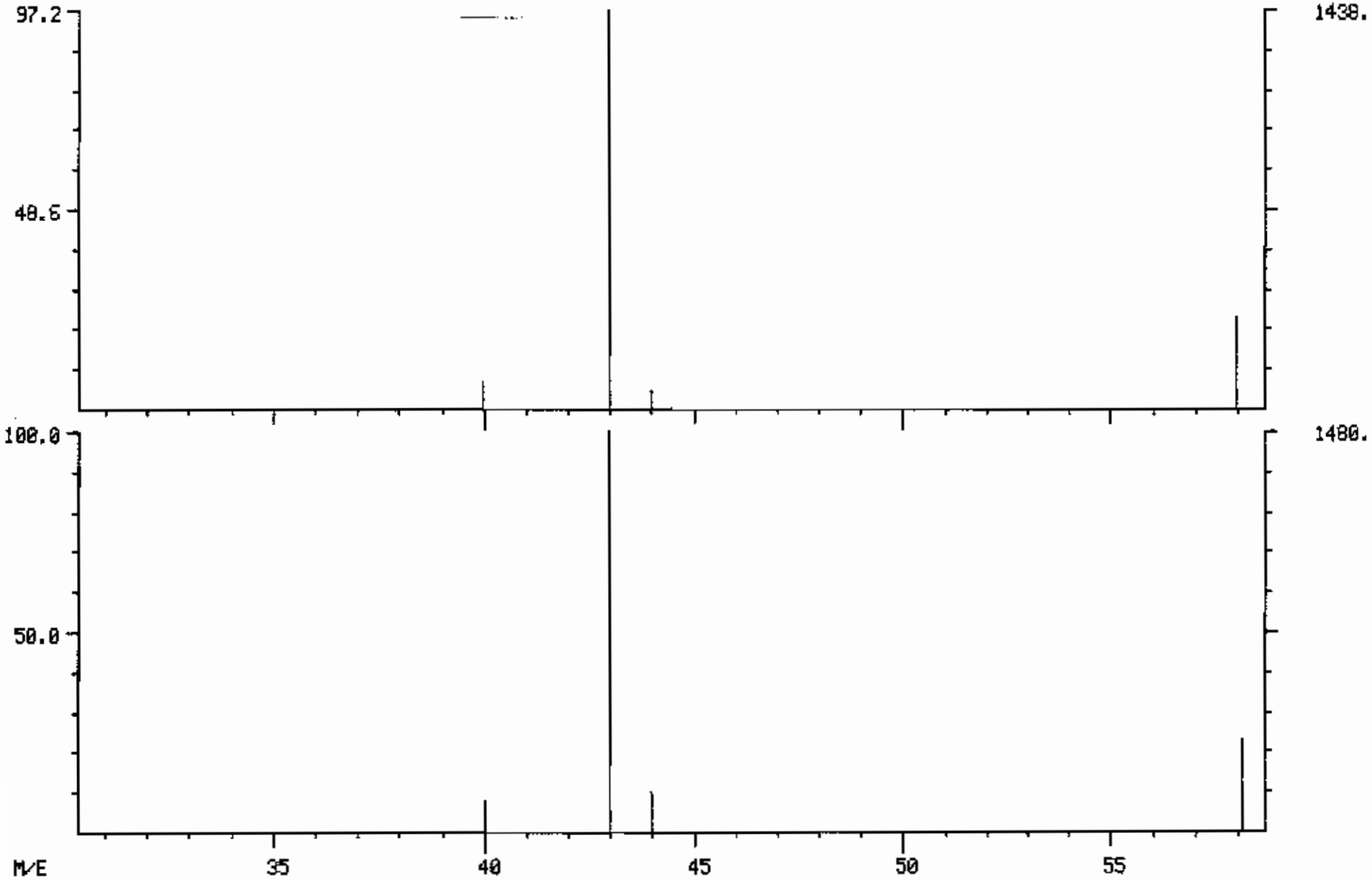
COMPUCHEM LA0S

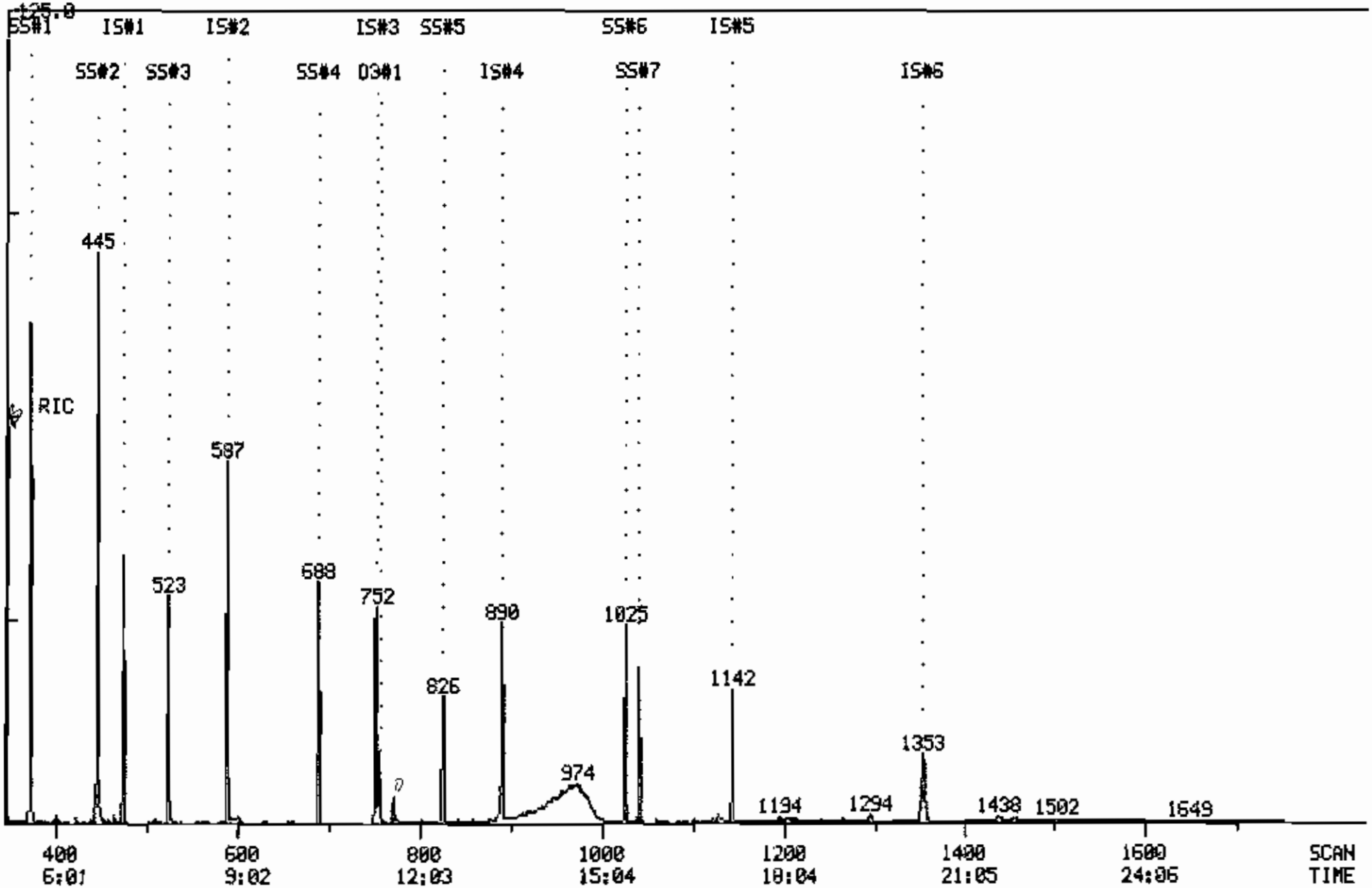
DUAL MASS SPECTRUM DATA: GH085001A18 #140 BASE M/E: 43/ 43

05/15/06 9:02:00 + 7:07 RIC: 1933./ 2087.

SAMPLE: 10ML CC#85001 EPA#E-SEDIMENT CASE# URS WEST

ENHANCED (S 150 2N) 252 ACETONE (2-PROPANONE) (67-64-1) E5#7




COMPUCHEM LABS
RIC
COMPUCHEM DATA: G2J85001815 SCANS 343 TO 1750
05/16/86 21:38:00
OUT OF 343 TO 1750
SAMPLE: 1 UL CC#85001 (5-13-86) CS#URS WEST EPA#E-SEDIMENT/ORIGINAL
CONDS.:
1090230.
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
03#1
IS#4
SS#7
IS#6
RIC
445
587
523
688
752
890
1025
826
1142
974
1353
1194
1294
1438
1502
1649
400
6:01
600
9:02
800
12:03
1000
15:04
1200
18:04
1400
21:05
1600
24:06
SCAN
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: SEMI2 FILENAME: G2J85001B15 DATE: 05/16/86
SHIFT STD: HQ860516B15 TIME: 21:38

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	73612.	56576.	30.	PASS
*460 D8-NAPHTHALENE (IS#2)	302380.	222968.	36.	PASS
*495 D10-ACENAPHTHENE (IS#3)	126980.	92712.	37.	PASS
*467 D10-PHENANTHRENE (IS#4)	164536.	117188.	40.	PASS
*459 D12-CHRYSENE (IS#5)	123356.	100736.	22.	PASS
*497 D12-PERYLENE (IS#6)	134904.	106208.	27.	PASS

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QUANTITATION REPORT    FILE: G2J85001B15

DATA: G2J85001B15.TI
 5/16/86 21:38:00
 AMPLE: 1 UL CC#85001 (5-13-86) CS#URS WEST EPA#E-SEDIMENT/ORIGINAL
CONDS.:
SUBMITTED BY: 15              ANALYST: B03

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

 NO  NAME
  1  *494 D4-1,4-DICHLOROBENZENE (IS#1)
  2  610 PHENOL (G1#3) <108-95-2>
  3  411 BIS(2-CHLOROETHYL)ETHER (G1#5) <111-44-4>
  4  601 2-CHLOROPHENOL (G1#6) <95-57-8>
  5  421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
  6  422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
  7  474 BENZYL ALCOHOL (G1#9) <1DD-51-6>
  8  420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
  9  620 2-METHYLPHENOL (G1#11) <95-48-7>
 10  412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
 11  622 4-METHYLPHENOL (G1#13) <106-44-5>
 12  442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
 13  436 HEXACHLOROETHANE (G1#15) <67-72-1>
 14  440 NITROBENZENE (G1#16) <98-95-3>
 15  *460 D8-NAPHTHALENE (IS#2)
 16  438 ISOPHORONE (G2#2) <78-59-1>
 17  606 2-NITROPHENOL (G2#3) <88-75-5>
 18  603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
 19  625 BENZOIC ACID (G2#5) <65-85-0>
 20  410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
 21  602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
 22  446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
 23  439 NAPHTHALENE (G2#9) <91-20-3>
 24  475 4-CHLOROANILINE (G2#10) <106-47-8>
 25  434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
 26  608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
 27  477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
 28  *495 D10-ACENAPHTHENE (IS#3)
 29  435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
 30  611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
 31  626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
 32  416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
 33  478 2-NITROANILINE (G3#6) <88-74-4>
 34  425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
 35  402 ACENAPHTHYLENE (G3#8) <208-96-8>
 36  479 3-NITROANILINE (G3#9) <99-09-2>
 37  401 ACENAPHTHENE (G3#10) <83-32-9>
 38  @605 2,4-DINITROPHENOL (G3#11) <51-28-5>
 39  607 4-NITROPHENOL (G3#12) <100-02-7>
 40  476 DIBENZOFURAN (G3#13) <132-64-9>
 41  427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
 42  428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
 43  424 DIETHYL PHTHALATE (G3#16) <84-66-2>
  4  417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
 45  432 FLUORENE (G3#18) <86-73-7>
 46  480 4-NITROANILINE (G3#19) <100-01-6>
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NO	NAME
47	*467 D10-PHENANTHRENE (IS#4)
48	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
9	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
50	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
51	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
52	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
53	444 PHENANTHRENE (Q4#7) <85-01-8>
54	403 ANTHRACENE (Q4#8) <120-12-7>
55	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
56	431 FLUORANTHENE (Q4#10) <206-44-0>
57	*459 D12-CHRYSENE (IS#5)
58	445 PYRENE (Q5#3) <129-00-0>
59	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
60	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
61	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
62	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
63	418 CHRYSENE (Q5#8) <218-01-9>
64	*497 D12-PERYLENE (IS#6)
65	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
66	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
67	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
68	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
69	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
70	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
71	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
72	#619 2-FLUOROPHENOL (SS#1)
73	#612 D5-PHENOL (SS#2)
74	#447 D5-NITROBENZENE (SS#3)
5	#448 2-FLUOROBIPHENYL (SS#4)
76	#628 2,4,6-TRIBROMOPHENOL (SS#5)
77	#496 D14-TERPHENYL (SS#6)
78	#471 D10-PYRENE
79	456 1,2,3,4-TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	474	7:08	1	1.000	A BB	73612.	40.000 NG	6.22
2	94	NOT FOUND							
3	93	NOT FOUND							
4	128	NOT FOUND							
5	146	NOT FOUND							
6	146	NOT FOUND							
7	108	NOT FOUND							
8	146	NOT FOUND							
9	108	NOT FOUND							
10	45	NOT FOUND							
11	108	NOT FOUND							
12	70	NOT FOUND							
13	117	NOT FOUND							
14	77	NOT FOUND							
15	136	587	8:50	15	1.000	A BB	302380.	40.000 NG	6.22
16	82	NOT FOUND							
17	139	NOT FOUND							
18	122	NOT FOUND							
9	122	NOT FOUND							
20	93	NOT FOUND							
21	162	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
22	180	NOT FOUND							
23	128	NOT FOUND							
24	127	NOT FOUND							
25	225	NOT FOUND							
26	107	NOT FOUND							
27	142	NOT FOUND							
28	164	751	11:19	28	1.000	A BB	126980.	40.000 NG	6.22
29	237	NOT FOUND							
30	196	NOT FOUND							
31	196	NOT FOUND							
32	162	NOT FOUND							
33	65	NOT FOUND							
34	163	NOT FOUND							
35	152	NOT FOUND							
36	138	NOT FOUND							
37	153	NOT FOUND							
38	184	NOT FOUND							
39	139	NOT FOUND							
40	168	NOT FOUND							
41	89	NOT FOUND							
42	165	NOT FOUND							
43	149	NOT FOUND							
44	204	NOT FOUND							
45	166	NOT FOUND							
46	138	NOT FOUND							
47	188	890	13:24	47	1.000	A BB	164536.	40.000 NG	6.22
48	198	NOT FOUND							
49	169	NOT FOUND							
50	248	NOT FOUND							
51	284	NOT FOUND							
52	266	NOT FOUND							
53	178	NOT FOUND							
54	178	NOT FOUND							
55	149	NOT FOUND							
56	202	NOT FOUND							
57	240	1142	17:12	57	1.000	A BV	123356.	40.000 NG	6.22
58	202	NOT FOUND							
59	149	NOT FOUND							
60	252	NOT FOUND							
61	228	NOT FOUND							
62	149	NOT FOUND							
63	228	NOT FOUND							
64	264	1353	20:23	64	1.000	A BV	134904.	40.000 NG	6.22
65	149	NOT FOUND							
66	252	NOT FOUND							
67	252	NOT FOUND							
68	252	NOT FOUND							
69	276	NOT FOUND							
70	278	NOT FOUND							
71	276	NOT FOUND							
72	112	372	5:36	1	0.785	A BV	271932.	87.880 NG	13.67
73	99	445	6:42	1	0.939	A BV	365800.	86.649 NG	13.48
74	82	523	7:53	15	0.891	A BV	145024.	39.204 NG	6.10
75	172	688	10:22	28	0.916	A BB	171492.	40.811 NG	6.35
76	141	826	12:26	28	1.100	A BB	19920.	75.063 NG	11.68
77	244	1040	15:40	57	0.911	A VV	107432.	36.413 NG	5.66

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
78	212	1025	15:26	57	0.898	A VV	141084.	36.808	NG	5.73
79	216	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	7:08	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	6:43		10.000			50.00		2.722	
3	6:49		10.000			50.00		2.193	
4	6:55		10.000			50.00		1.568	
5	7:06		10.000			50.00		1.671	
6	7:10		10.000			50.00		1.669	
7	7:19		10.000			50.00		0.880	
8	7:25		10.000			50.00		1.553	
9	7:29		10.000			50.00		1.510	
10	7:33		10.000			50.00		2.852	
11	7:40		10.000			50.00		1.563	
12	7:43		10.000			50.00		1.536	
13	7:49		10.000			50.00		0.787	
14	7:54		10.000			50.00		2.151	
15	8:50	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
16	8:13		10.000			50.00		0.998	
17	8:20		10.000			50.00		0.201	
18	8:22		10.000			50.00		0.356	
19	8:30		50.000			50.00		0.178	
20	8:31		10.000			50.00		0.497	
21	8:39		10.000			50.00		0.233	
22	8:47		10.000			50.00		0.284	
23	8:52		10.000			50.00		1.046	
24	8:57		10.000			50.00		0.427	
25	9:07		10.000			50.00		0.156	
26	9:36		10.000			50.00		0.476	
27	9:49		10.000			50.00		0.618	
28	11:19	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
29	10:08		10.000			50.00		0.332	
30	10:17		10.000			100.00		0.334	
31	10:17		50.000			100.00		0.334	
32	10:30		10.000			50.00		1.280	
33	10:40		50.000			50.00		0.475	
34	10:57		10.000			50.00		1.433	
35	11:06		10.000			50.00		2.055	
36	11:14		50.000			50.00		0.353	
37	11:21		10.000			50.00		1.320	
38	11:23		50.000			50.00		0.110	
39	11:27		50.000			50.00		0.238	
40	11:35		10.000			50.00		1.659	
41	11:36		10.000			50.00		0.472	
42	11:02		10.000			50.00		0.289	
43	11:57		10.000			50.00		1.476	
44	12:03		10.000			50.00		0.551	
45	12:04		10.000			50.00		1.285	
46	12:06		50.000			50.00		0.319	
47	13:23	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
48	12:10		50.000			50.00		0.117	
49	12:13		10.000			50.00		0.693	
50	12:44		10.000			50.00		0.261	
51	12:57		10.000			50.00		0.400	
52	13:12		50.000			50.00		0.177	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
53	13:25		10.000			50.00		1.401	
54	13:29		10.000			50.00		1.106	
5	14:13		10.000			50.00		1.834	
56	15:06		10.000			50.00		1.306	
57	17:09	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
58	15:25		10.000			50.00		1.546	
59	16:19		10.000			50.00		0.788	
60	17:04		20.000			50.00		0.449	
61	17:07		10.000			50.00		1.356	
62	17:10		10.000			50.00		1.245	
63	17:12		10.000			50.00		1.238	
64	20:15	1.01	10.000	0.10	40.00	40.00	1.000	1.000	1.00
65	18:16		10.000			50.00		1.938	
66	19:16		10.000			50.00		1.359	
67	19:20		10.000			50.00		0.884	
68	20:07		10.000			50.00		1.177	
69	23:59		10.000			50.00		1.401	
70	24:03		10.000			50.00		1.121	
71	25:06		10.000			50.00		1.151	
72	5:37	1.00	0.742	1.06	87.88	50.00	2.955	1.681	1.76
73	6:42	1.00	0.948	0.99	86.65	50.00	3.975	2.294	1.73
74	7:53	1.00	0.875	1.02	39.20	50.00	0.384	0.489	0.78
75	10:21	1.00	0.906	1.01	40.81	50.00	1.080	1.324	0.82
76	12:25	1.00	1.118	0.98	75.06	50.00	0.125	0.084	1.50
77	15:37	1.00	0.907	1.00	36.41	50.00	0.697	0.957	0.73
78	15:24	1.00	10.000	0.09	36.81	50.00	0.915	1.243	0.74
79	10:31		1.000			50.00		0.224	

QUANTITATION REPORT FILE: STND

DATA: G2J85001815.TI
^5/16/86 21:38:00
.MPLE: 1 UL CC#85001 (5-13-86) CS#URS WEST EPA#E-SEDIMENT/ORIGINAL
.ONDS. :
SUBMITTED BY: 15 ANALYST: 803

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	474	7:08	3	0.630	A BB	526063.	67.689	16.13
2	RIC	587	8:50	3	0.781	A BV	728496.	93.736	22.33
3	RIC	752	11:19	3	1.000	A BB	777178.	100.000	23.83
4	RIC	890	13:24	3	1.184	A BB	479620.	61.713	14.70
5	RIC	1142	17:12	3	1.519	A BB	374868.	48.234	11.49
6	RIC	1353	20:23	3	1.799	A BB	375722.	48.344	11.52

QUANTITATION REPORT FILE: UNKNOWN

DATA: G2JB5001B15.TI
05/16/86 21:38:00
MPLE: 1 UL CC#85001 (5-13-86) CS#URS WEST EPA#E-SEDIMENT/ORIGINAL
UNDS. :
SUBMITTED BY: 15 ANALYST: 803

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	345	5:12	1	1.000	A BB	1269340.	100.000	51.14
2	RIC	771	11:37	1	2.235	A BV	95714.	7.540	3.86
3	RIC	970	14:36	1	2.812	A VV	713568.	56.216	28.75
4	RIC	974	14:40	1	2.823	A VB	403568.	31.793	16.26

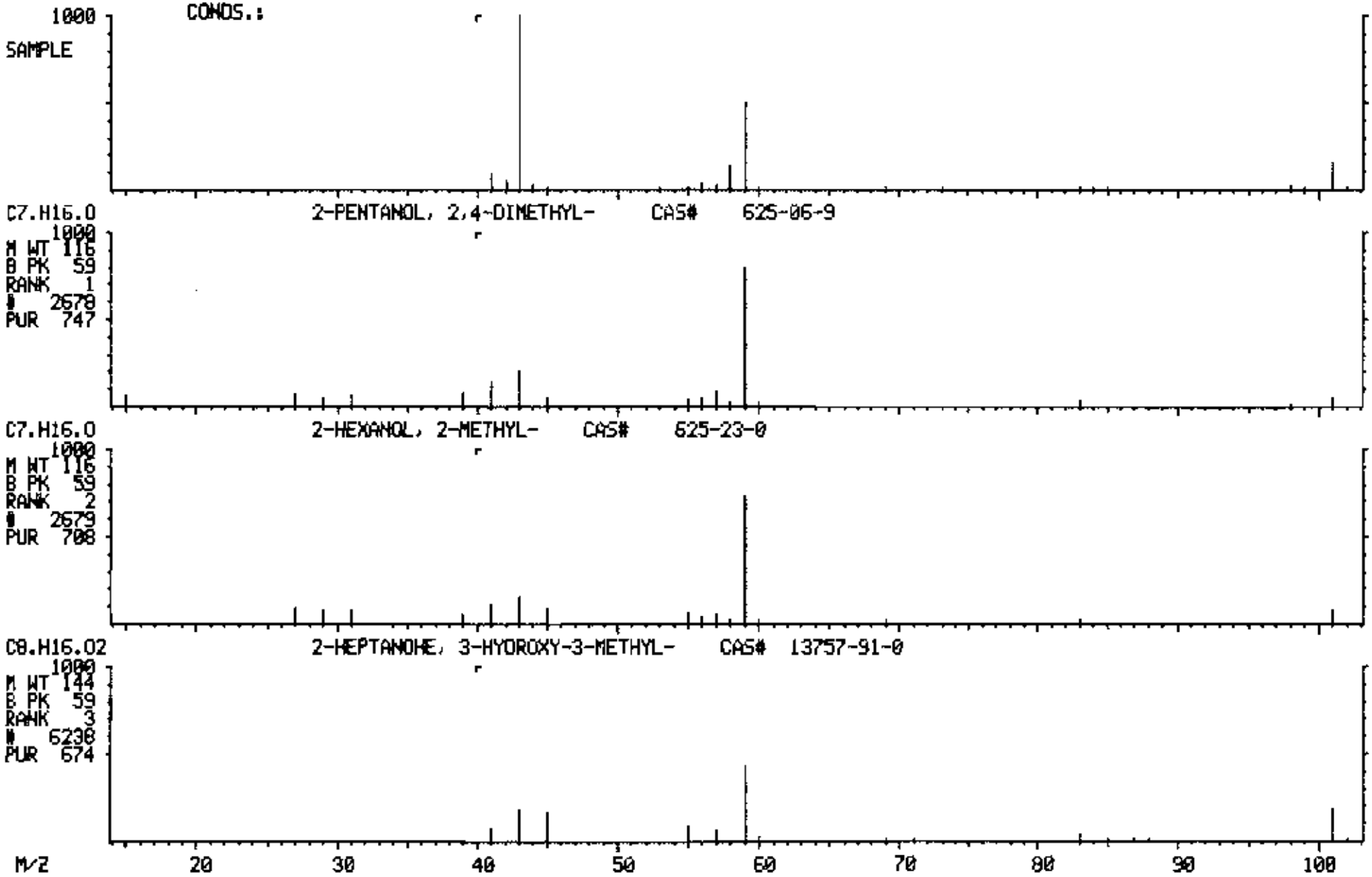
BNA 1

COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 21:30:00 + 5:12
SAMPLE: 1 UL CC#85081 (5-13-86) CS#URS WEST EPA#E-SEDIMENT/ORIGINAL
CONDS.:

DATA: G2J85001B15 # 345
ENHANCED (10B 2N 0T)

BASE M/Z: 43
RIC: 857327.

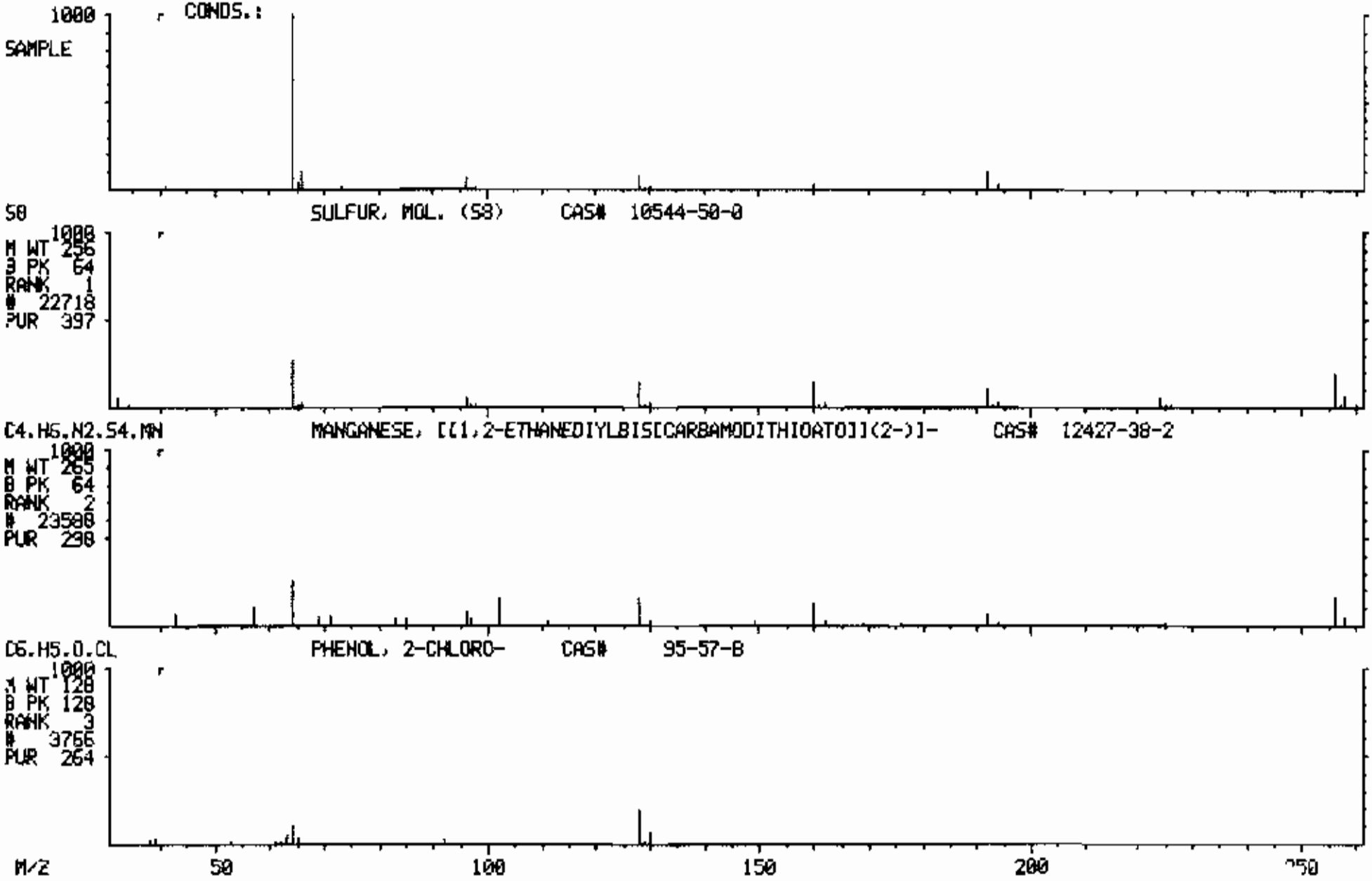


COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 21:38:00 + 11:37
SAMPLE: 1 UL CC#85001 (5-13-86) CS#URS WEST EPA#E-SEDIMENT/ORIGINAL
CONDS.:

DATA: G2J85001B15 # 771
ENHANCED (1BB 2N 0T)

BASE M/Z: 64
RIC: 33279.



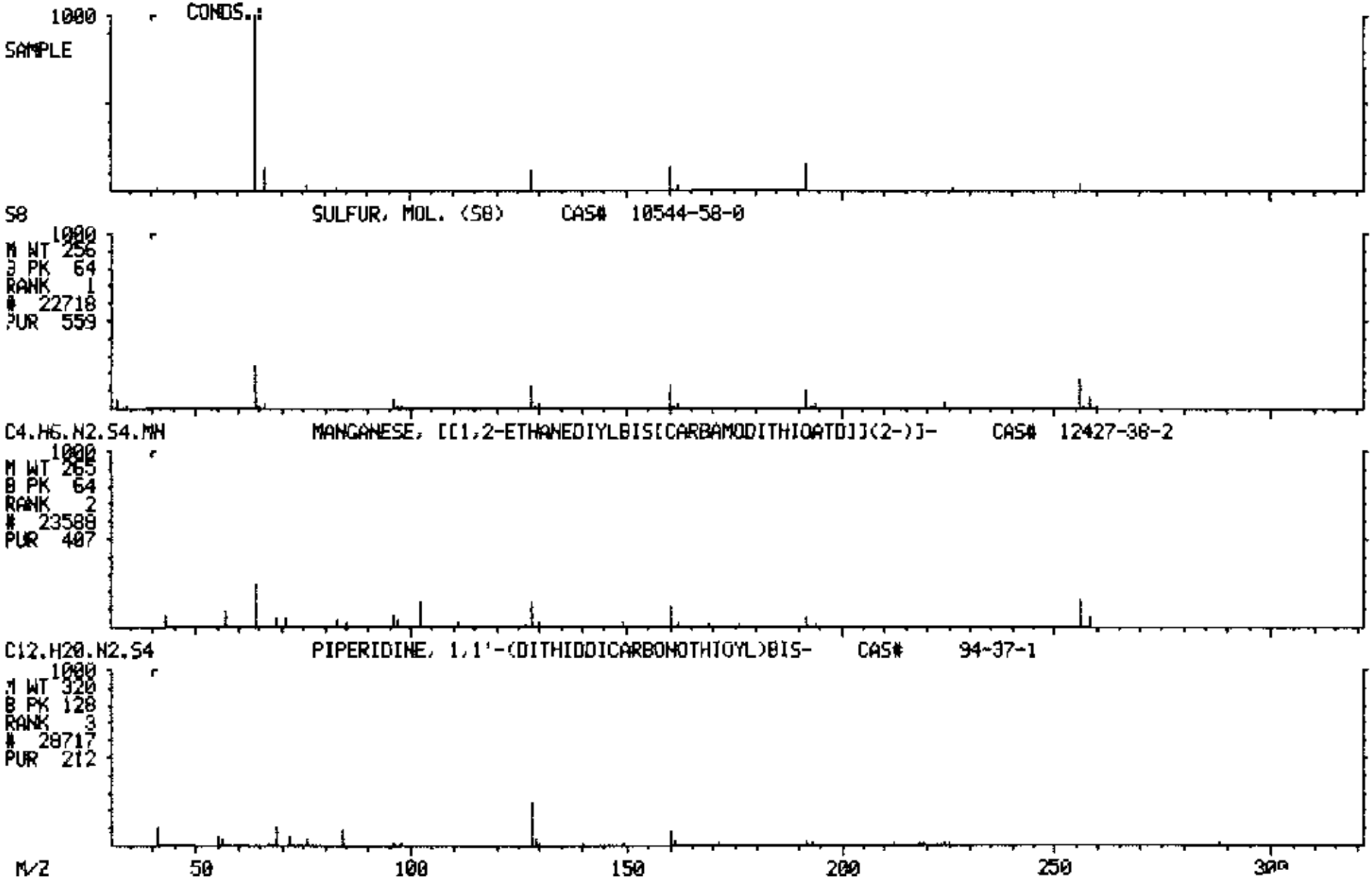
BNA3

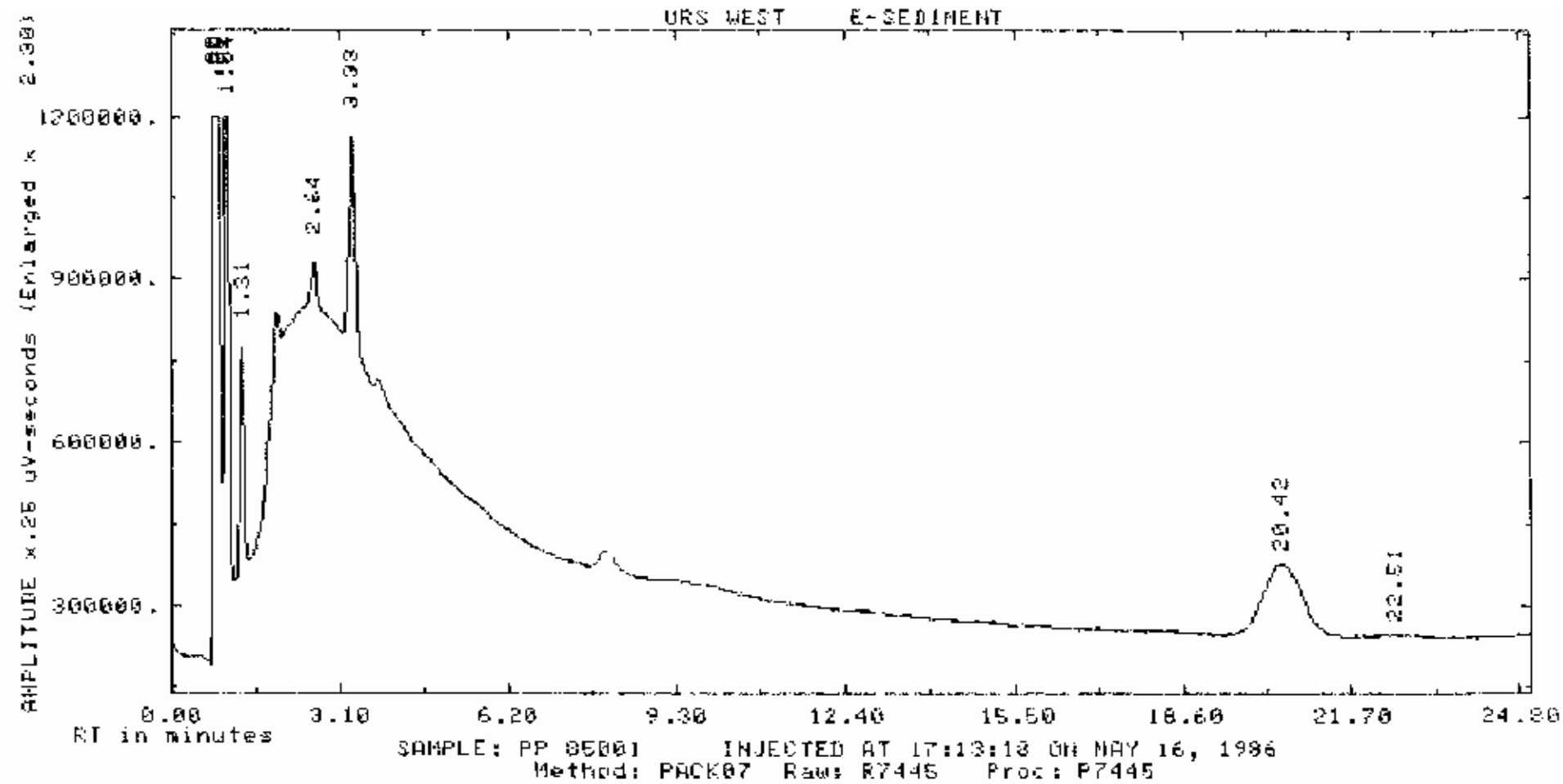
COMPUCHEM LABS

MID LIBRARY SEARCH
05/16/86 21:38:00 + 14:40
SAMPLE: 1 UL CC#05001 (5-13-86) CS#URS WEST EPA#E-SEDIMENT/ORIGINAL
CONDS.:

DATA: G2J85001B15 # 974
ENHANCED (10B 2N 0T)

BASE M/Z: 64
RIC: 10271.




URS WEST E-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 2.00)
1200000.
900000.
600000.
300000.
1.31
2.64
3.98
20.42
22.51
0.00
3.10
6.20
9.30
12.40
15.50
18.60
21.70
24.80
RT in minutes
SAMPLE: PP 05001 INJECTED AT 17:13:13 ON MAY 16, 1986
Method: PACK07 Raw: R7445 Proc: P7445

Report: 219.09 Channel: 7 UPS WEST E-SEDIMENT

Sample: PP 85001 Injected at 17:13:18 ON MAY 16, 1986

APCT Method: PACK07. Seq: SEQ74 Subsq/Samp. 1/45 Btl: 45

Si-width	MV/Min	Delay	Min-Ar	Bunch
.506	3.000	0.00	10000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTw	%RTW	%Diff	Iso
NO	0.00	0	.30	5.0	500.00	NO

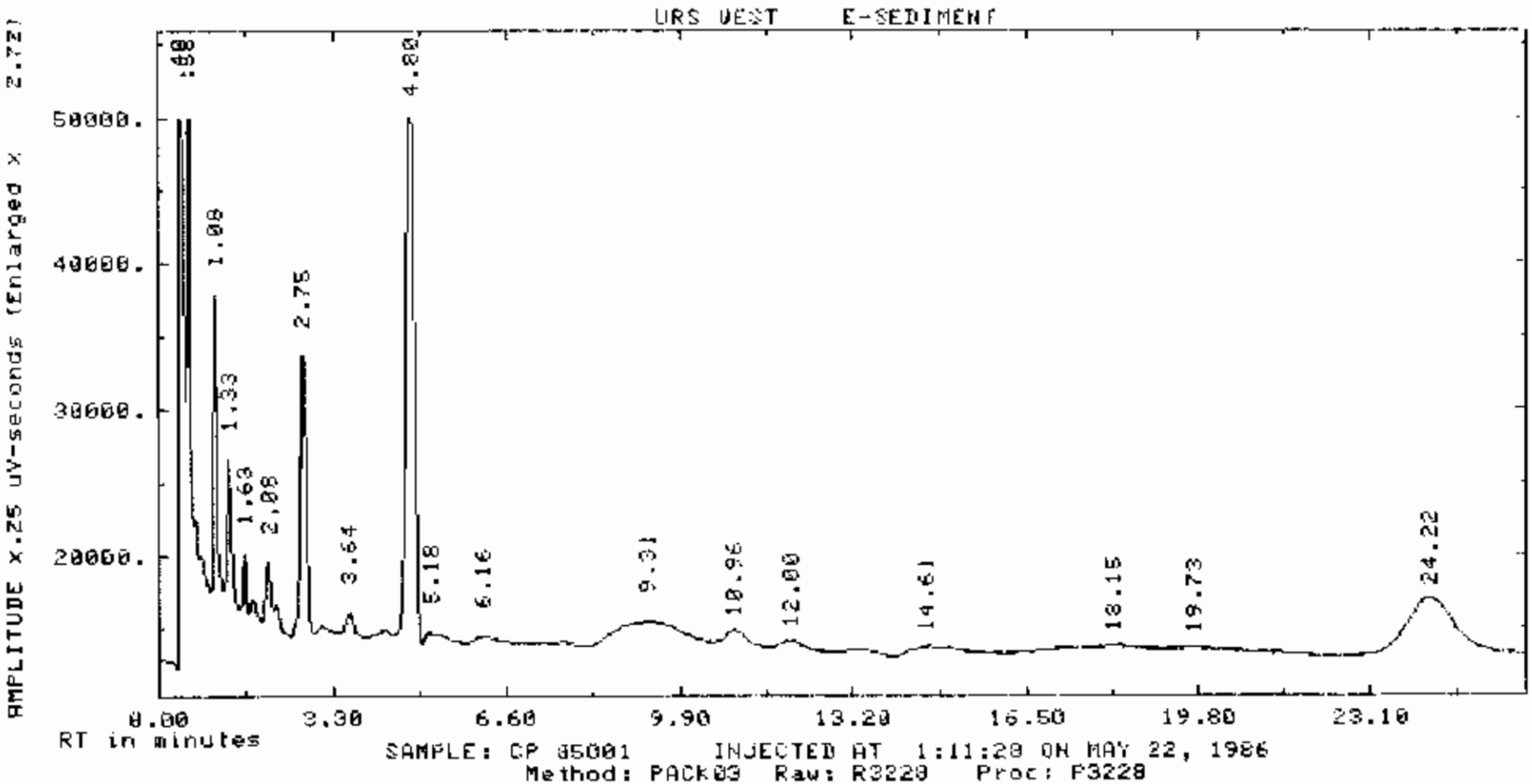
Actual run time. 25.008 minutes

Ended not on baseline
No reference peak found

RT	ITM	Factor	Area		AREA %	Name
.80	0.00	.10000E+01	1328904.	BS	48.120	
.88	0.00	.10000E+01	361753.	BB	13.099	
1.04	0.00	.10000E+01	4677044.	BS	169.358	
1.31	0.00	.10000E+01	929949.	BB	33.674	
2.64	0.00	.10000E+01	1402165.	BB	50.771	
5.33	0.00	.10000E+01	1779514.	BB	64.437	
20.42	0.00	.10000E+01	3240232.	BB	117.330	
22.51	0.00	.10000E+01	88674.	BB	3.211	

Total Area = 13806178. Total AREA % = 68672.000

Processed data file: P7445 Raw data file. R7445


URS WEST E-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 2.72)
50000.
40000.
30000.
20000.
.48
1.08
1.33
1.63
2.08
2.75
3.64
4.80
5.18
6.16
9.31
10.96
12.00
14.61
18.15
19.73
24.22
0.00
3.30
6.60
9.90
13.20
16.50
19.80
23.10
RT in minutes
SAMPLE: CP 85001 INJECTED AT 1:11:20 ON MAY 22, 1986
Method: PACK03 Raw: R3220 Proc: P3220

Report: 384.00 Channel: 3 URS WEST E-SEDIMENT

Sample: CP 85001 Injected at 1:11:28 ON MAY 22, 1986

ZERO Method: PACK03 Seq: SEQ32 Subsq/Samp: 1/28 Btl: 28

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	.300	0.00	5000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	500.00	NO

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITM	Factor	Area		AREA %	Name
.40	0.00	.10000E+01	162465.	BB	95.723	
.58	0.00	.10000E+01	79526.	BB	46.856	
1.08	0.00	.10000E+01	37101.	BB	21.860	
1.33	0.00	.10000E+01	24477.	BB	14.422	
1.63	0.00	.10000E+01	8671.	BB	5.109	
2.08	0.00	.10000E+01	9254.	BB	5.452	
2.75	0.00	.10000E+01	70980.	BB	41.821	
3.64	0.00	.10000E+01	7674.	BB	4.522	
4.80	0.00	.10000E+01	192663.	BB	113.515	
5.18	0.00	.10000E+01	8314.	BB	4.898	
6.16	0.00	.10000E+01	7082.	BB	4.172	
9.31	0.00	.10000E+01	61024.	BB	35.955	
10.96	0.00	.10000E+01	13555.	BB	7.987	
12.00	0.00	.10000E+01	7729.	BB	4.554	
14.61	0.00	.10000E+01	18529.	BB	10.917	
18.15	0.00	.10000E+01	15131.	BB	8.915	
19.73	0.00	.10000E+01	5196.	BB	3.061	
24.22	0.00	.10000E+01	119252.	BF	70.262	

Total Area = 848625. Total AREA % = 119252.500

Processed data file: P3228 Raw data file: R3228

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB'S ONLY IN PLATINUM FORM
CASE#: URS WEST   DUE DATE: 6/11/86

VOA
C/MS WORKSHEET   COMPUCHEM#: 85001

R[ ] R2[ ] D[ ] (:1)
R3[ ] R4[ ] D2[ ] (:1)

LOW LEVEL SOLID

Sample Prep Code---155
Instrument Code----257
Compound List------146
Surrogate Std------394
Internal Std-------036

SAS: EPA#: E-SEDIMENT   Dry Weight Factor 1.20

GC/MS ANALYSIS

Amount Purged: [X] 10mls/Xg soil or [ ]Dilution ______ ul/10000ul/Xg soil
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BF860514B18 Disk(2245)
Blank Filename GA860515C18 Disk ( )
Standard Filename G5860515C18 Disk ( )
Sample Filename GH085001A18 Disk ( )

ANALYST(S): Injection 819   Work-up 819

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes DK,EA,ES,SM,JS,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR,IF,LA,DI,CO,RN,DW,SI,SF,UP,BB,OT,VC,FO,NS

Disposition: [✓] Complete
[ ] Reprep neat required
[ ] Reprep using ________ g
[ ] Dilute (:1)

Extraneous Peak Search Results:
# of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required ________

COMMENTS:

GC/MS Review [signature] Date 5/15/86   Auditor ________ Date ___/___/___

REPORT INTEGRATION   Total # of Injections: 1
Final Reportable Package(s): GH085001A18 / ________ /

QA COMMENTS:

Initials ________ Date ___/___/___

FINAL REVIEW: Initials ________ Date ___/___/___

AC387 (09/85)

[signature]

CASE#: URS WEST DUE DATE:

SEMI-VOLATILE
GC/MS WORKSHEET

COMPUCHEM#: 85001

J[ ] R[ ] D[ ] (:1)
J2[✓] R2[ ] D2[ ] (:1)

LOW LEVEL SOLID
Deliverable Code 069

Original

Sample Prep Code--- -717
Instrument Code---255
Compound List---772
Surrogate Std---393
Internal Std---035 (added by GC/MS)

SAS: EPA#: E-sediment Dry Weight Factor ___1.20___

GC/MS ANALYSIS

Volumes mixed: BN ___—___ ul Acid ___—___ ul (200 µl)
Internal Standard Volume Added ___2___ ul
Mixed Sample Volume Injected ___1___ ul
Date of Sample Bottle Analyzed ___5/13/86___
DFTPP Filename ___DH860516B15___ Disk (3117)
Standard Filename ___AG860516B15___ Disk (/)
Sample Filename ___G2585001B15___ Disk (")

ANALYST(S): Injection ___803___ Work-up ___803___

GC/MS REVIEW

CONDITION CODE: #JA

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,DF ED,IF,LA,DI,CO,RN,DW,NS

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: ___(3)___

[ ] Reinjection required

[ ] Reextraction required

Quality Assurance Notice(e):
Notices Required ___5___

[ ] Dilute (:1)

COMMENTS: pk205/19

[ ] Reinject Neat

[ ] Send to QA

GC/MS Review ___803___ Date ___5/19/86___ Auditor ________ Date ___/___/___

REPORT INTEGRATION

Total # of Injections: ___(3)___

Final Reportable Package(s): 6258500101B15 / ________

QA COMMENTS:

Initials ________ Date ___/___/___

FINAL REVIEW: Initials ________ Date ___/___/___

AS 5/23/86

EPASOLID (1).

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB'S ONLY IN PLATINUM FORM
CASE # URS WESTDATE DUE 6/11/86

PESTICIDE WORKSHEET

COMPUCHEM # 85001

Sample Prep Code---716
Instrument Code----124
Compound List------177
Surrogate Std------396

LOW LEVEL SOLID

SAS: ID#: E-SEDIMENT Dry Weight Factor
Blank Associated with Case _____ _____ _____ 1.20
Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes |___|

Wt. of sample 30.82g final volume of extract 2.0 mls

portion of wt. in pesticide 1|10

ANALYSIS INFORMATION: COMMENTS |___| Send to QA

Inst. # / |___| QA Approved
Date Sequence Dil. Fact.

BDL |___| Need GC/MS Confirmation

5-16 7 74 5

5-22 3 32 5

___ ___ ___ ___ Analyst 924/899 Date 5-23-86

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE 3240 X Dilution Factor 5 X 100 = 103 % Recovery
AREA IN STD 15762
% Recovery X 0.1 ug/ml = .103 ug/ml

+EA = re-extract acceptable
JA = reinject acceptable
QA = repeat confirmed original results
OK = original data acceptable (not for REPEATS)
NS = insufficient sample for repeat
DL = DBC low ((20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.

FINAL STATUS CODE+= | OK |

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

|___| QANA |___| QAN3 QA notice included.

SAMPLE DISPOSITION Code

|___| Complete.....

|___| Requires Re-extraction.. 716

|___| Requires reprep..... 930

|___| Requires cleanup..... 901

Audited By _____ Date _____

(19)

VOLATILE PREP WORKSHEET

№ 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
84986	-155	WRS WEST			5.07g	5.13.86					ENT
84988	1	1	BS		0ml						
84989	1	1	SS	84986	5.07g						
84990	1	1			5.01g						ENT
84991	1	1	SS	84990	5.01g						
85000	1	1			5.02g						ENT
85001	1	1			5.07g						ENT
85002	1	1			5.00g						ENT
85003	1	1			5.01g						ENT
85004	1	1			5.09						ENT
85005	1	1			5.09	1					ENT
85028			B		5.0ml	5.13.86					
85029			B		0ml	5.13.86					
			B								

Surrogate No. /

Amount /

Lot /

MBy 5-13-86

Schedule Reference

Manual Counter 2781 715

(47)

VOLATILE PREP WORKSHEET

№ 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
84986	-158	URS WEST			20.09g	5-13-86			✓		ENT
84987			BS		40 ml				✓		
84990					20.06g				✓		ENT
85000					20.02g				✓		ENT
85001					20.07g				✓		ENT
85002					20.02g				✓		ENT
85003					20.05g				✓		ENT
85004					20.10g				✓		ENT
85005					20.01				✓		ENT
85034			B		40ml	5-13-86			✓		PCBs 5/40
85035			B		40 ml	5-13-86			✓		
			B								

Surrogate No. # 381
Amount 200 µl
Lot 17471

MBA 5/13/86

Schedule Reference
Manual Counter 288/472

EXTRACTION WORKSHEET
Semi-Volatiles/Miscellaneous

ASSIGNED TO: Linda LPT

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
84992	-153	WSwat	NA	BS		30.00	1ml	—		—			5/13	
84993	-717	WSwat		BS		30.00	—	0.9		1ml			5/13	
84994		WSwat		SS	85001	30.58	—	0.9		1ml			5/13	277/499
84995		WSwat		SS	85001	30.32	—	0.9		1ml			5/13	
84986		WSwat				30.87	1ml	0.9		1ml			5/13	
84990						30.24	1ml	0.9		1ml			5/13	
85000						30.41	1ml	0.9		1ml			5/13	
85001						30.82	1ml	0.9		1ml			5/13	
85002						30.45	1ml	0.9		1ml			5/13	
85003						30.85	1ml	0.9		1ml			5/13	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17794			17636		
SPIKE	NO.		3012	2021			
	AMT.		1ml	1.0ml			
	LOT		17654	17771			

Blanks 85102 / 85103 } on Pg 9782 along w/other samples

MANUAL COUNTER 270 /6/3

FINAL VOLUME VERIFIED LAP

SUPERVISOR REVIEWED OK

EXTRACTS RECEIVED BY TSD 5/13/86

Freon lot # 209

Nº 9781

EXTRACTION WORKSHEET
Semi-Volatiles/Miscellaneous

ASSIGNED TO: [illegible signature]

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	A	DATE COMPT	COMMENTS
85004	-717	Wswgt	NA			30.xx	1ml	0.9		10.0			5/13	
85005	↓	↓	↓			30.30	1ml	0.9		10.0			5/13	
85102				B1		30.00	1ml	0.9		10.0			5/13	
85103	↓			B2		30.00	1ml	0.9		10.0			5/13	

Add samples or QC 9781 [initials]

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17794			17646		
SPIKE	NO.						
	AMT.						
	LOT						

MANUAL COUNTER 270/613

FINAL VOLUME VERIFIED LLP

SUPERVISOR REVIEWED [initials]

EXTRACTS RECEIVED BY BT 5/13/86

Acetone Lot # 509

[signature] 5/13/86

№ [illegible]92

EXTRACTION WORKSHEET

Pesticide/Herbicide

ASSIGNED TO: Linda 11th

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ALUMINA COLUMN START VOL	ALUMINA COLUMN FINAL VOL	DATE COMPT	COMMENTS
84992	153	UKSwat	NA	BS		30.00	1ml	—		—		2X1ml		
84993	710	UKSwat		BS		30.00	—	1ml		1ml				
84994		UKSwat		SS	85001	30.58	—	1ml		1ml				2774/49
84995		UKSwat		SS	85001	30.53	—	1ml		1ml				
84986		UKSwat	A SEDIMENT			30.89	1ml	1ml		1ml	1.0ml	2.0ml	5-14-86	
84990			B-SEDIMENT			30.34	1ml	1ml		1ml	1.0	2.0	5.14	
85000			D-SEDIMENT			30.41	1ml	1ml		1ml	1.0	2.0	5.14	
85001			E-SEDIMENT			30.52	1ml	1ml		1ml	1.0	2.0	5.14	
85002			F-SEDIMENT			30.45	1ml	1ml		1ml	1.0	2.0	5.14	
85003			G-SEDIMENT			30.85	1ml	1ml		1ml	1.0	2.0	5.14	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17794			17686		
SPIKE	NO.		3012	2021			
	AMT.		1ml	1.0ml			
	LOT		17654	17777			

Blank 85102 ? on Bx 9782 along w/other samples
CASE 85103 BW 05/14/86

MANUAL COUNTER 570 /613

FINAL VOLUME VERIFIED L.H.P.

SUPERVISOR REVIEWED OKS

EXTRACTS RECEIVED BY [illegible] 5/13/86

Acetone Lot # 309

Alumina Batch 5-13-86-AL

POSTED 5-14-86 OKS

№ 978

EXTRACTION WORKSHEET
Pesticide / Herbicide

ASSIGNED TO: [illegible signature]

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

OKS

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ALUMINA COLUMN START VOL	ALUMINA COLUMN FINAL VOL	DATE COMPT	COMMENTS
85004	-7176	US West	H-SEDIMENT NA			30.00	1.1			1.0	1.0 ml	2.0 ml	5-14-86	
85005	↓	UAS WEST ↓	C-SEDIMENT ↓			30.70	1.1			1.0	1.0	2.0	5-14	
85102				B		30.00	1.			1.0	1.0 ml	2.0 ml	5-14-86	
85103	↓			B2		30.00	1.1			1.0	1.0	2.0	5-14	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5			2.0		
	LOT	17794			17616		
SPIKE	NO.						
	AMT.						
	LOT						

Aldrin Standard on [illegible] 9781

CASE ✓ BW 05/14/86

MANUAL COUNTER 370/613

FINAL VOLUME VERIFIED LEP

SUPERVISOR REVIEWED [initials]

EXTRACTS RECEIVED BY [initials] 5/13/86

Acetone Lot # 309

Alumina Batch 5-13-86-AC

POSTED 5-14-86

NV 9781

COMPUCHEM # 085001 FILE: GH085001A18 COMPOUND LIST 146 PAGE 1
VOLATILE - LOW LEVEL SOLID

	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
234	128	I	BROMOCHLOROMETHANE (IS) <75	193	58000.	50.0		
221	50		CHLOROMETHANE <75-01-4> E5#				BDL	12.
220	94		BROMOMETHANE <78-83-9> E5#3				BDL	12.
231	62		VINYL CHLORIDE <75-01-4> E5				BDL	12.
209	64		CHLOROETHANE <75-00-3> E5#5				BDL	12.
222	84		METHYLENE CHLORIDE <75-09-2			12.7	15.	6.
252	43		ACETONE (2-PROPANONE) <67-6			13.6	16. B	12.
254	76		CARBON DISULFIDE <75-15-0>				BDL	6.
216	96		1,1-DICHLOROETHYLENE <75-35				BDL	6.
214	63		1,1-DICHLOROETHANE <75-34-3				BDL	6.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	6.
211	83		CHLOROFORM <67-66-3> E5#12			1.1	BDL	6.
215	62		1,2-DICHLOROETHANE <107-06-				BDL	6.
248	114	I	1,4-DIFLUOROBENZENE (IS) <5	402	241000.	50.0		
253	72		2-BUTANONE <78-93-3> E6#2				BDL	12.
227	97		1,1,1-TRICHLOROETHANE <71-5				BDL	6.
206	117		CARBON TETRACHLORIDE <56-23				BDL	6.
257	43		VINYL ACETATE <108-05-4> E6				BDL	12.
212	83		BROMODICHLOROMETHANE <75-27				BDL	6.
217	63		1,2-DICHLOROPROPANE <78-87-				BDL	6.
250	75		TRANS-1,3-DICHLOROPROPENE <				BDL	6.
229	130		TRICHLOROETHYLENE <79-01-6>				BDL	6.
208	129		CHLORODIBROMOMETHANE <124-4				BDL	6.
	97		1,1,2-TRICHLOROETHANE <79-0				BDL	6.
[illegible]	78		BENZENE <71-43-2> E6#12				BDL	6.
218	75		CIS-1,3-DICHLOROPROPENE <10				BDL	6.
210	63		2-CHLOROETHYL VINYL ETHER <				BDL	12.
205	173		BROMOFORM <75-25-2> E6#15				BDL	6.
270	117	I	D5-CHLOROBENZENE (IS)	503	236000.	50.0		
256	43		4-METHYL-2-PENTANONE <108-1				BDL	12.
255	43		2-HEXANONE <591-78-6> E7#3				BDL	12.
224	164		TETRACHLOROETHENE <127-18-4				BDL	6.
223	83		1,1,2,2-TETRACHLOROETHANE <				BDL	6.
225	92		TOLUENE <108-88-3> E7#6				BDL	6.
207	112		CHLOROBENZENE <108-90-7> E7				BDL	6.
219	106		ETHYLBENZENE <100-41-4> E7#				BDL	6.
251	104		STYRENE <100-42-5> E7#9				BDL	6.
240	106		M-XYLENE E7#10				BDL	6.
271	106		O,P-XYLENE E7#11				BDL	6.
258	65	S	D4-1,2-DICHLOROETHANE E8#2			45.2	90. %	
247	95	S	BROMOFLUOROBENZENE <460-00-			42.7	85. %	
233	98	S	D8-TOLUENE E8#4			42.6	85. %	
CHECKSUMS:								
2175.	827			1098	535000.	307.9	291.	

VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE E8#2	45.2	50.0	90.	70-121	X	
41	247	BROMOFLUOROBENZENE <460-00-	42.7	50.0	85.	74-121	X	
42	233	D8-TOLUENE E8#4	42.6	50.0	85.	81-117	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#1) BROMOCHLOROMETHANE > 10000 COUNTS	/	

CORRECTION FACTOR CALCULATION:

$$\frac{5.0\ G}{\text{WET WEIGHT OF SAMPLE (G)}} \times \text{GC/MS DILUTION FACTOR} \times \text{DRY WEIGHT FACTOR} =$$

$$\frac{5.0\ G}{5.07\ (G)} \times \frac{1.0}{\text{GC/MS DILUTION FACTOR}} \times \frac{1.2}{\text{DRY WEIGHT FACTOR}} = 1.180$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

COMPUCHEM # J85001 FILE: G2J85001B15 COMPOUND LIST 172 PAGE 1
SEMI-VOLATILE - LOW LEVEL SOLID

P #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	474	73600.	40.0		
610	94		PHENOL (G1#3) <108-95-2>				BDL	330.
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	330.
601	128		2-CHLOROPHENOL (G1#6) <95-5				BDL	330.
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	330.
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	330.
474	108		BENZYL ALCOHOL (G1#9) <100-				BDL	330.
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	330.
620	108		2-METHYLPHENOL (G1#11) <95-				BDL	330.
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	330.
622	108		4-METHYLPHENOL (G1#13) <106				BDL	330.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	330.
436	117		HEXACHLOROETHANE (G1#15) <6				BDL	330.
440	77		NITROBENZENE (G1#16) <98-95				BDL	330.
460	136	I	D8-NAPHTHALENE (IS#2)	587	302000.	40.0		
438	82		ISOPHORONE (G2#2) <78-59-1>				BDL	330.
606	139		2-NITROPHENOL (G2#3) <88-75				BDL	330.
603	122		2,4-DIMETHYLPHENOL (G2#4) <				BDL	330.
625	122		BENZOIC ACID (G2#5) <65-85-				BDL	1600.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	330.
602	162		2,4-DICHLOROPHENOL (G2#7) <				BDL	330.
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	330.
79	128		NAPHTHALENE (G2#9) <91-20-3				BDL	330.
5	127		4-CHLOROANILINE (G2#10) <10				BDL	330.
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	330.
608	107		P-CHLORO-M-CRESOL (G2#12) <				BDL	330.
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	330.
495	164	I	D10-ACENAPHTHENE (IS#3)	751	127000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	330.
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	330.
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	1600.
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	330.
478	65		2-NITROANILINE (G3#6) <88-7				BDL	1600.
425	163		DIMETHYL PHTHALATE (G3#7) <				BDL	330.
402	152		ACENAPHTHYLENE (G3#8) <208-				BDL	330.
479	138		3-NITROANILINE (G3#9) <99-0				BDL	1600.
401	153		ACENAPHTHENE (G3#10) <83-32				BDL	330.
605	184		2,4-DINITROPHENOL (G3#11) <				BDL	1600.
607	139		4-NITROPHENOL (G3#12) <100-				BDL	1600.
476	168		DIBENZOFURAN (G3#13) <132-6				BDL	330.
427	89		2,4-DINITROTOLUENE (G3#14)				BDL	330.
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	330.
424	149		DIETHYL PHTHALATE (G3#16) <				BDL	330.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	330.
432	166		FLUORENE (G3#18) <86-73-7>				BDL	330.
480	138		4-NITROANILINE (G3#19) <100				BDL	1600.
467	188	I	D10-PHENANTHRENE (IS#4)	890	164000.	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	1600.
3	169		N-NITROSODIPHENYLAMINE (G4#				BDL	330.
4	248		4-BROMOPHENYL PHENYL ETHER				BDL	330.
433	284		HEXACHLOROBENZENE (G4#5) <1				BDL	330.
609	266		PENTACHLOROPHENOL (G4#6) <8				BDL	1600.
444	178		PHENANTHRENE (G4#7) <85-01-				BDL	330.
403	178		ANTHRACENE (G4#8) <120-12-7				BDL	330.

SEMI-VOLATILE - LOW LEVEL SOLID

IP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	330.
431	202		FLUORANTHENE (G4#10) <206-4				BDL	330.
459	240	I	D12-CHRYSENE (IS#5)	1142	123000.	40.0		
445	202		PYRENE (G5#3) <129-00-0>				BDL	330.
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	330.
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	660.
405	228		BENZO(A)ANTHRACENE (G5#6) <				BDL	330.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE				BDL	330.
418	228		CHRYSENE (G5#8) <218-01-9>				BDL	330.
497	264	I	D12-PERYLENE (IS#6)	1353	135000.	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	330.
407	252		BENZO(B)FLUORANTHENE (G6#3)				BDL	330.
409	252		BENZO(K)FLUORANTHENE (G6#4)				BDL	330.
406	252		BENZO(A)PYRENE (G6#5) <50-3				BDL	330.
437	276		INDENO(1,2,3-C,D)PYRENE (G6				BDL	330.
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	330.
408	276		BENZO(G,H,I)PERYLENE (G6#8)				BDL	330.
619	112	S	2-FLUOROPHENOL (SS#1)			87.9	89.%	
612	99	S	D5-PHENOL (SS#2)			86.6	88.%	
447	82	S	D5-NITROBENZENE (SS#3)			39.2	80.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			40.8	83.%	
628	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			75.1	76.%	
76	244	S	D14-TERPHENYL (SS#6)			36.4	74.%	
71	212	S	D10-PYRENE			36.8	75.%	
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	33.
CHECKSUMS:								
6593.	2206			5197	924600.	642.8	565.	

SEMI-VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
72	619	2-FLUOROPHENOL (SS#1)	87.9	98.3	89.	26-121	X	
73	612	D5-PHENOL (SS#2)	86.6	98.3	88.	24-113	X	
74	447	D5-NITROBENZENE (SS#3)	39.2	49.2	80.	23-120	X	
75	448	2-FLUOROBIPHENYL (SS#4)	40.8	49.2	83.	30-115	X	
76	628	2,4,6-TRIBROMOPHENOL (SS#5)	75.1	98.3	76.	18-123	X	
77	496	D14-TERPHENYL (SS#6)	36.4	49.2	74.	18-137	X	
78	471	D10-PYRENE	36.8	49.2	75.	33-128*	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

P F

INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS ✓ ___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{SPLIT FACTOR (*)}} \times \frac{30.0\text{G}}{\text{AMOUNT EXTRACTED(G)}} \times \text{DRY WEIGHT FACTOR} \times \text{GC/MS DILUTION FACTOR} \times 33.3 =$$

$$\frac{0.9\text{ML}}{0.885} \times \frac{30.0\text{G}}{30.82\text{G}} \times \frac{1.20}{1.0} \times \frac{1.0}{1.0} \times 33.3 = 396$$

* SPLIT FACTOR = (295/300)(9/10) IF PEST/TCDD VOLUMES ARE INDICATED ON LOG
= 1 IF PEST/TCDD VOLUMES ARE NOT INDICATED ON EXTRACTION LOG

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\text{ UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{SPLIT FACTOR}} \times \text{GCMS DILUTION FACTOR} =$$

$$\frac{1000\text{ UL}}{500\text{ UL}} \times \frac{0.9\text{ML}}{0.665\text{ML}} \times \frac{1.0}{1.0} = 2.030$$

COMPOUND LIST NO. - 177

COMPUCHEM # 85001 DATE

IDENTIFIER PESTICIDES (LOW LEVEL SOLID)

DIL FACT_____DRY WT_____ _30__SPLIT____FINAL VOL_____/5 = 1.17

AMT SAMPLE_____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/kg)
1.	0701	ALDRIN		8.0
2.	0702	ALPHA-BHC		8.0
3.	0703	BETA-BHC		8.0
4.	0704	GAMMA-BHC		8.0
5.	0705	DELTA-BHC		8.0
6.	0706	TECHNICAL CHLORDANE		80.0
7.	0707	4,4'-DDT		16.0
8.	0708	4,4'-DDE		16.0
9.	0709	4,4'-DDD		16.0
10.	0710	DIELDRIN		16.0
11.	0711	ENDOSULFAN I		8.0
12.	0712	ENDOSULFAN II		16.0
13.	0713	ENDOSULFAN SULFATE		16.0
14.	0714	ENDRIN	BDL	16.0
15.	0739	ENDRIN KETONE		16.0
16.	0716	HEPTACHLOR		8.0
17.	0717	HEPTACHLOR EPOXIDE		8.0
18.	0726	METHOXYCHLOR		80.0
19.	0724	AROCHLOR 1016		80.0
20.	0720	AROCHLOR 1221		80.0
21.	0721	AROCHLOR 1232		80.0
22.	0718	AROCHLOR 1242		80.0
23.	0722	AROCHLOR 1248		80.0
24.	0719	AROCHLOR 1254		160.0
25.	0723	AROCHLOR 1260		160.0
26.	0725	TOXAPHENE		160.0

ANALYST'S COMMENTS:

GC SCREEN DATA SHEET

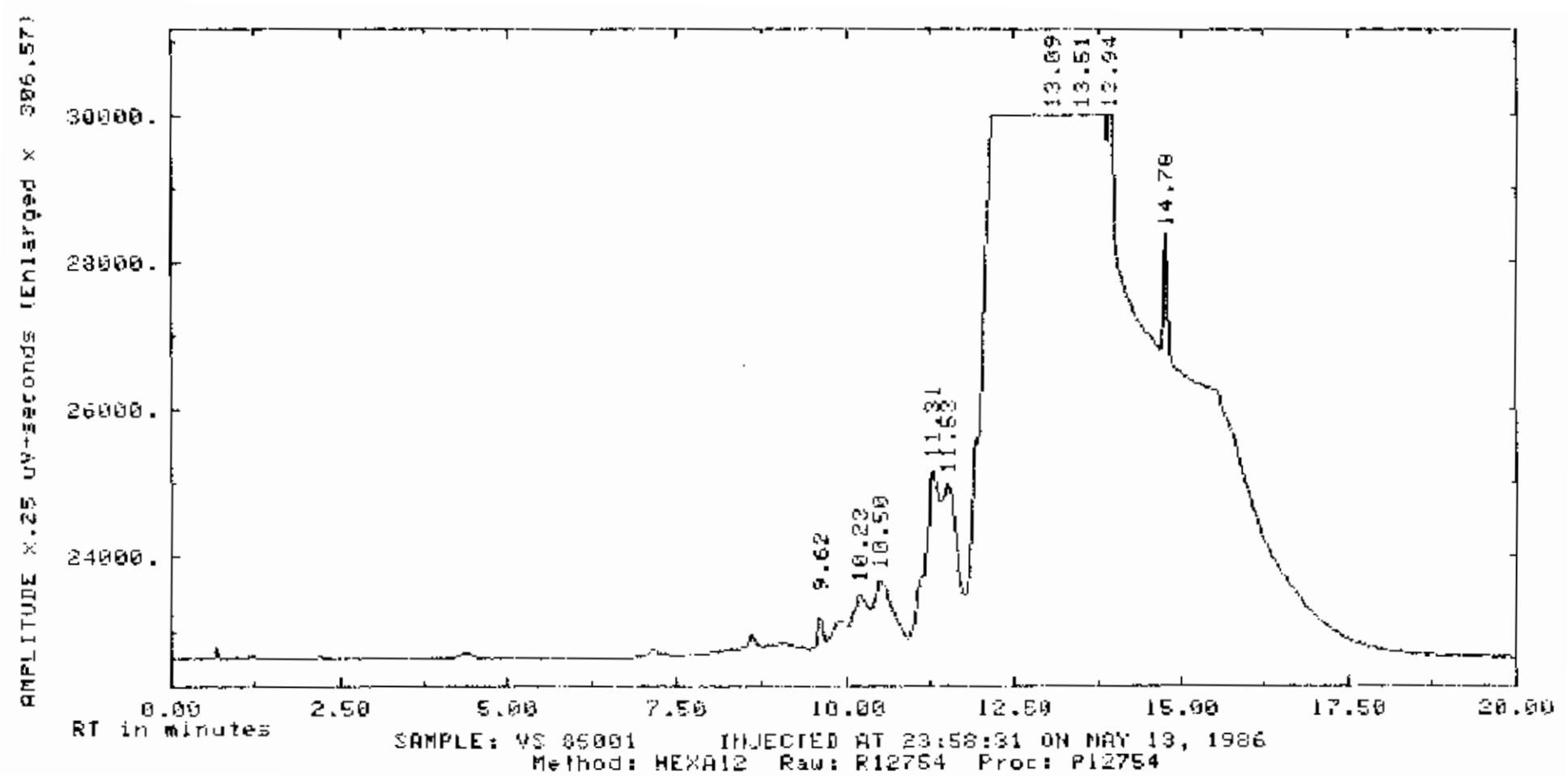
Laboratory Name CompuChem

Case Number URS WEST

Sample ID Number	Fraction	GC Detectable* Medium Level	Date of Screen	Level of GC/MS Analysis**
E-SEDIMENT	VOA	NO	5/13/96	L
	B/N/A	NO	5/16/96	L
	Pesticides			
9500	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			

*Answer Yes or No

**Indicate "M" for Medium Level GC/MS analysis.
Indicate "L" for Low Level GC/MS analysis.


AMPLITUDE X.25 uV-seconds (Enlarged x 306.57)
30000.
28000.
26000.
24000.
9.62
10.22
10.50
11.08
11.31
13.09
13.51
13.94
14.78
0.00
2.50
5.00
7.50
10.00
12.50
15.00
17.50
20.00
RT in minutes
SAMPLE: VS 85001 INJECTED AT 23:58:31 ON MAY 13, 1986
Method: HEXA12 Raw: R12754 Proc: P12754

Report: 103.00 Channel: 12

Sample: V5 B5001 Injected at 23:58:31 ON MAY 13, 1986

ZERO Method: HEXA12 Seq: SEQ127 Subsq/Samp: 1/54 Btl: 54

Pk-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	100	Auto

Sep-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 20.017 minutes

Reading(s) missed

RT	ITM	Factor	Area		AREA %	Name
9.62	0.00	.10000E+01	723.	BB	.001	
10.23	0.00	.10000E+01	1811.	BB	.002	
10.50	0.00	.10000E+01	3601.	BB	.005	
11.31	0.00	.10000E+01	14717.	BB	.020	
11.53	0.00	.10000E+01	12472.	BB	.017	
13.09	0.00	.10000E+01	41382256.	BS	57.027	
13.51	0.00	.10000E+01	31143240.	BS	42.917	
13.94	0.00	.10000E+01	4069.	TT	.006	
14.78	0.00	.10000E+01	3535.	TT	.005	

Total Area = 72566416. Total AREA % = 3535.281

Processed data file: P12754 Raw data file: R12754

PLIST7

SCREEN WORKSHEET

Compulnem # 85001

Sample Prep Code--153_

Instrument Code__122__

ANALYSIS INFORMATION

COMMENT:

Date	Inst	File Name	Dilution Fact.
5/16	6	P6381	1
___	___	_____	___

Analyst 865 Date 5/16/84

RESULTS

Area of 50ng Phenanthrene 60593

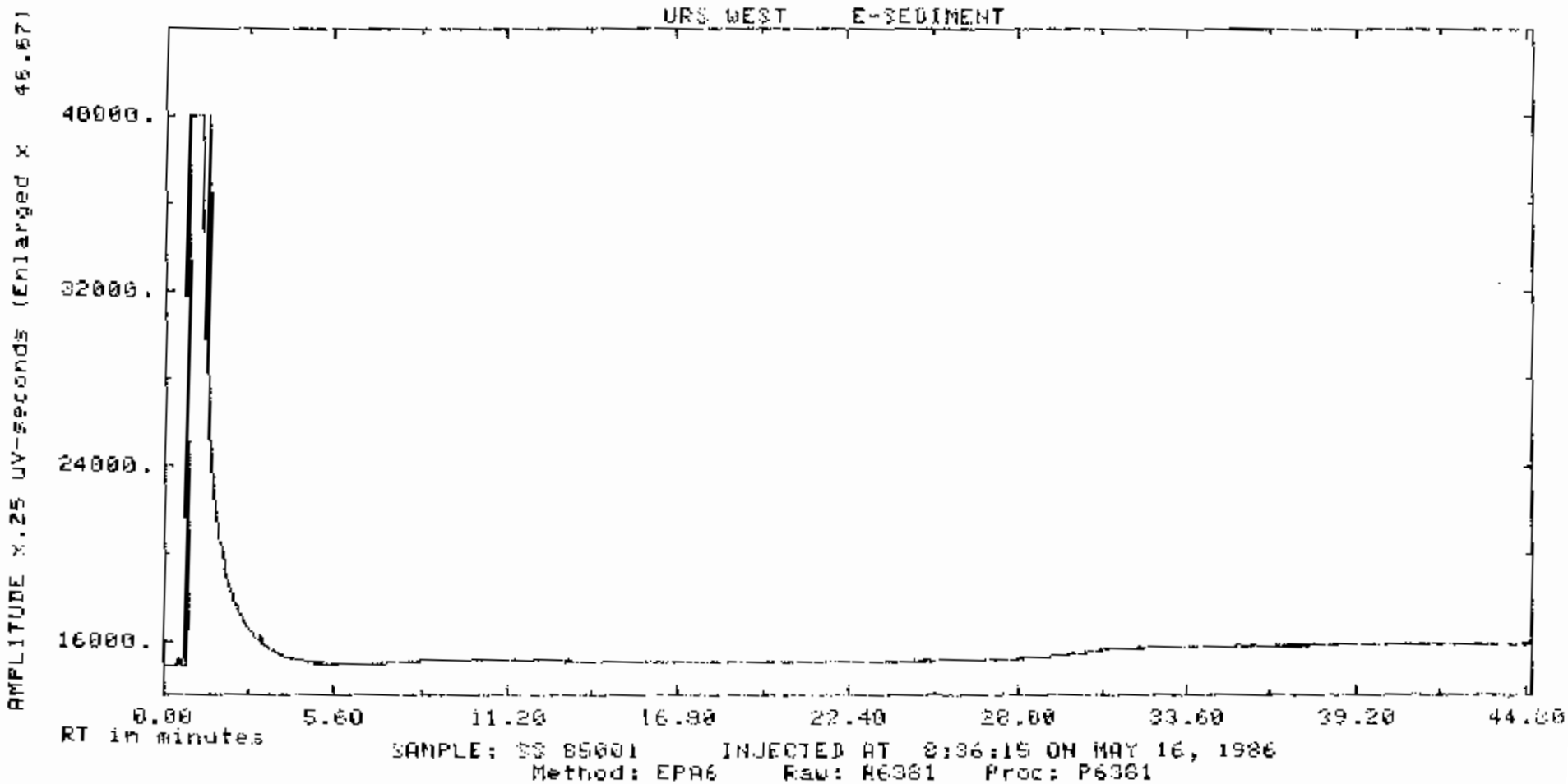
Area of Largest peak in sample 0

Phenanthrene / Largest Peak = ∞

X Ratio > 5.0 Analyze low level extract
Suggested dilution for GC/MS analysis 1:___ (up to 1:5)

_ Ratio < 5.0 Prepare medium level extract
Schedule Analysis code 380 and 384
Suggested dilution for GC/MS analysis 1:___

rev 9/15/84


URS WEST E-SEDIMENT
AMPLITUDE x.25 UV-seconds (Enlarged x 46.67)
40000.
32000.
24000.
16000.
0.00
5.60
11.20
16.80
22.40
28.00
33.60
39.20
44.80
RT in minutes
SAMPLE: SS 85001 INJECTED AT 8:36:15 ON MAY 16, 1986
Method: EPA6 Raw: R6381 Proc: P6381

Report: 91.00 Channel: 6 URS WEST E-SEDIMENT

Sample: SS 85001 Injected at 8:36:15 ON MAY 16, 1986

ZERO Method: EPA6 Seq: SEQ63 Subsq/Samp: 1/81 Bt1: 81

Si-width	MV/Min	Delay	Min-Ar	Bunch
.250	.300	3.00	1000	

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 45.017 minutes

No peaks integrated

RT	ITM	Factor	Area	AREA %	Name

Total Area = 0. Total AREA % = 0.000

Processed data file: P6381 Raw data file: R6381

III. SAMPLE DATA PACKAGE

CASE NO. URS ~~WEST~~ May 1986

(6)

SAMPLE NO. G-SEDIMENT COMPUCHEM NO. 45003
Site No. 6

A. Sample data in increasing SMO Number order:

1. Copy of Sample Traffic Report
2. HSL Results — Organic Analysis Data Sheet (Form I)
3. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.
4. Raw Data — in order: VOA, BNA, Pesticide

1. **Copy of Sample Traffic Report**

2. HSL Results — Organic Analysis Data Sheets (Form I)

Sample Number
G-SEDIMENT

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: GH085903A16
Sample matrix: solid
Data Release
Authorized By: _____

Case: URS WEST
QC Report No: _____
Contract No: PLATINUM
Date Sample
Received: 05-12-86

Volatile Compounds
Concentration: low
Date extracted/prepared: 05-13-86
Date analyzed: 05-15-86
Conc/Dil Factor: 2.34 pH: 6.74
Percent moisture (not decanted): 57%

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloromethane	23.	U	10061-02-6	trans-1,3-Dichloropropene	12.	U
74-83-9	Bromomethane	23.	U	79-01-6	Trichloroethene	12.	U
75-01-4	Vinyl Chloride	23.	U	124-48-1	Dibromochloromethane	12.	U
75-00-3	Chloroethane	23.	U	79-00-5	1,1,2-Trichloroethane	12.	U
75-09-2	Methylene Chloride	23.		71-43-2	Benzene	12.	U
67-64-1	Acetone	32.	J	10061-01-5	cis-1,3-Dichloropropene	12.	U
75-15-0	Carbon Disulfide	12.	U	110-75-8	2-Chloroethyl Vinyl Ether	23.	U
75-35-4	1,1-Dichloroethene	12.	U	75-25-2	Bromoform	12.	U
75-34-3	1,1-Dichloroethane	12.	U	108-10-1	4-Methyl-2-pentanone	23.	U
156-60-5	trans-1,2-Dichloroethene	12.	U	591-78-6	2-Hexanone	23.	U
67-66-3	Chloroform	12.	U	127-18-4	Tetrachloroethene	12.	U
107-06-2	1,2-Dichloroethane	12.	U	79-34-5	1,1,2,2-Tetrachloroethane	12.	U
78-93-3	2-Butanone	23.	U	108-88-3	Toluene	12.	U
71-55-6	1,1,1-Trichloroethane	12.	U	108-90-7	Chlorobenzene	12.	U
56-23-5	Carbon Tetrachloride	12.	U	100-41-4	Ethyl Benzene	12.	U
108-05-4	Vinyl Acetate	23.	U	100-42-5	Styrene	12.	U
75-27-4	Bromodichloromethane	12.	U		Total Xylenes	12.	U
78-87-5	1,2-Dichloropropane	12.	U				

DATA REPORTING QUALIFIERS

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

Value If the result is a value greater than or equal to the detection limit then report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10ug and a concentration of 3ug is calculated, then report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Laboratory Name: CompuChem
Se : URS WEST

Sample Number
G-SEDIMENT

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: low
Date extracted/prepared: 05-13-86
Date analyzed: 05-20-86
Conc/Dil Factor: 77.40
Percent moisture (decanted): 57%

GPC Cleanup: No
Separatory Funnel Extraction: Yes
Continuous Liquid - Liquid Extraction: No

CAS Number		ug/kg		CAS Number		ug/kg		
108-95-2	Phenol	770	U	83-32-9	Acenaphthene	770	U	
111-44-4	bis(2-Chloroethyl) ether	770	U	51-28-5	2,4-Dinitrophenol	3900	U	
95-57-8	2-Chlorophenol	770	U	100-02-7	4-Nitrophenol	3900	U	
541-73-1	1,3-Dichlorobenzene	770	U	132-64-9	Dibenzofuran	770	U	
106-46-7	1,4-Dichlorobenzene	770	U	121-14-2	2,4-Dinitrotoluene	770	U	
100-51-6	Benzyl Alcohol	770	U	606-20-2	2,6-Dinitrotoluene	770	U	
95-50-1	1,2-Dichlorobenzene	770	U	84-66-2	Diethylphthalate	770	U	
95-48-7	2-Methylphenol	770	U	7005-72-3	4-Chlorophenyl Phenyl ether	770	U	
39638-32-9	bis(2-Chloroisopropyl) ether	770	U	86-73-7	Fluorene	770	U	
106-44-5	4-Methylphenol	770	U	100-01-6	4-Nitroaniline	3900	U	
621-64-7	N-Nitroso-Dipropylamine	770	U	534-52-1	4,6-Dinitro-2-methylphenol	3900	U	
67-72-1	Hexachloroethane	770	U	86-30-6	N-nitrosodiphenylamine (1)	770	U	
98-95-3	Nitrobenzene	770	U	101-55-3	4-Bromophenyl Phenyl ether	770	U	
78-59-1	Isophorone	770	U	118-74-1	Hexachlorobenzene	770	U	
88-75-5	2-Nitrophenol	770	U	87-86-5	Pentachlorophenol	3900	U	
105-67-9	2,4-Dimethylphenol	770	U	85-01-8	Phenanthrene	110	J	*
65-85-0	Benzoic Acid	3900	U	120-12-7	Anthracene	770	U	
111-91-1	bis(2-Chloroethoxy) methane	770	U	84-74-2	Di-n-butylphthalate	770	U	
120-83-2	2,4-Dichlorophenol	770	U	206-44-0	Fluoranthene	250	J	*
120-82-1	1,2,4-Trichlorobenzene	770	U	129-00-0	Pyrene	260	J	*
91-20-3	Naphthalene	770	U	85-68-7	Butyl Benzyl Phthalate	770	U	
106-47-8	4-Chloroaniline	770	U	91-94-1	3,3'-Dichlorobenzidine	1500	U	
87-68-3	Hexachlorobutadiene	770	U	56-55-3	Benzo(a)anthracene	140	J	*
59-50-7	4-Chloro-3-methylphenol	770	U	117-81-7	bis(2-ethylhexyl)phthalate	170	J	*
91-57-6	2-Methylnaphthalene	770	U	218-01-9	Chrysene	350	J	*
77-47-4	Hexachlorocyclopentadiene	770	U	117-84-0	Di-n-octyl Phthalate	770	U	
88-06-2	2,4,6-Trichlorophenol	770	U	205-99-2	Benzo(b)fluoranthene	310	J	II *
95-95-4	2,4,5-Trichlorophenol	3900	U	207-08-9	Benzo(k)fluoranthene	310	J	II *
91-58-7	2-Chloronaphthalene	770	U	50-32-8	Benzo(a)pyrene	160	J	*
88-74-4	2-Nitroaniline	3900	U	193-39-5	Indeno(1,2,3-cd)pyrene	85.	J	*
131-11-3	Dimethyl Phthalate	770	U	53-70-3	Dibenz(a,h)anthracene	770	U	
208-96-8	Acenaphthylene	770	U	191-24-2	Benzo(g,h,i)perylene	85.	J	*
99-09-2	3-Nitroaniline	3900	U					

(1) Cannot be separated from diphenylamine

II indistinguishable isomers

Sample Number
G-SEDIMEN

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: [Low] Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Data Analyzed: 05/16/86
Conc/Dil Factor: 2.29

CAS Number		ug/l or [ug/Kg] (Circle One)	
319-84-6	Alpha - BHC	18.	U
319-85-7	Beta - BHC	18.	U
319-86-8	Delta - BHC	18.	U
58-89-9	Gamma - BHC(Lindane)	18.	U
76-44-8	Heptachlor	18.	U
309-00-2	Aldrin	18.	U
1024-57-3	Heptachlor Epoxide	18.	U
959-98-8	Endosulfan I	18.	U
60-57-1	Dieldrin	36.	U
72-55-9	4-4' - DDE	36.	U
72-20-8	Endrin	36.	U
33213-65-9	Endosulfan II	36.	U
72-54-8	4-4' - DDD	36.	U
1031-07-8	Endosulfan Sulfate	36.	U
50-29-3	4-4' - DDT	36.	U
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin Ketone	36.	U
57-74-9	Chlordane	180	U
8001-35-2	Toxaphene	360	U
12674-11-2	Aroclor - 1016	180	U
11104-28-2	Aroclor - 1221	180	U
11141-16-5	Aroclor - 1232	180	U
53469-21-9	Aroclor - 1242	180	U
12672-29-6	Aroclor - 1248	180	U
11097-69-1	Aroclor - 1254	360	U
11096-82-5	Aroclor - 1260	360	U

V(i) = Volume of extract injected (ul)
V(s) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(s) _____ or W(s) 30.85 V(t) 2000.00 V(i) 5.0

Sample Number
G-SEDIMEN

Organics Analysis Data Sheet (Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Data Analyzed: 05/22/86
Conc/Dil Factor: 2.29

CAS Number		ug/l or [ug/Kg] (Circle One)	
319-84-6	Alpha - BHC	18.	U
319-85-7	Beta - BHC	18.	U
319-86-8	Delta - BHC	18.	U
58-89-9	Gamma - BHC(Lindane)	18.	U
76-44-8	Heptachlor	18.	U
309-00-2	Aldrin	18.	U
1024-57-3	Heptachlor Epoxide	18.	U
959-98-8	Endosulfan I	18.	U
60-57-1	Dieldrin	36.	U
72-55-9	4-4' - DDE	36.	U
72-20-8	Endrin	36.	U
33213-65-9	Endosulfan II	36.	U
72-54-8	4-4' - DDD	36.	U
1031-07-8	Endosulfan Sulfate	36.	U
50-29-3	4-4' - DDT	36.	U
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin Ketone	36.	U
57-74-9	Chlordane	180	U
8001-35-2	Toxaphene	360	U
12674-11-2	Aroclor - 1016	180	U
11104-28-2	Aroclor - 1221	180	U
11141-16-5	Aroclor - 1232	180	U
53469-21-9	Aroclor - 1242	180	U
12672-29-6	Aroclor - 1248	180	U
11097-69-1	Aroclor - 1254	360	U
11096-82-5	Aroclor - 1260	360	U

V(i) = Volume of extract injected (ul)
V(s) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(s) _____ or W(s) 30.85 V(t) 2000.00 V(i) 1.0

3. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found. Also, indicate on form "No volatile compounds found" and/or "no semi-volatile compounds found.")

Laboratory Name: CompuChem Laboratories

Case No: URS WEST

Sample Number: G-5 SEDIMENT

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOLATILE COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SAMPLE NUMBER G-SED

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

COMPUCHEM FILE GH085003C15

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
1	625-06-9	2-PENTANOL, 2,4-DIMETHYL- acetone contaminant	SEMI2	389	6200J ~~80.~~	J ~~170~~
~~2~~	~~1121-66-0~~	2-CYCLOHEPTEN-1-ONE D2 omit	SEMI2	730	~~35.~~	J ~~77~~
~~1~~ 2	57-10-3	HEXADECANOIC ACID unknown	SEMI2	922	1000J ~~13.~~	J ~~27~~
~~1~~ 3	1454-85-9	1-HEPTADECANOL HC	SEMI2	971	1000J ~~13.~~	J ~~27~~
~~1~~ 4	3891-98-3	DODECANE, 2,6,10-TRIMETHYL- HC	SEMI2	976	620J ~~8.~~	J ~~17~~
~~1~~ 5	1454-85-9	1-HEPTADECANOL HC	SEMI2	1013	310J ~~4.~~	J ~~8~~
~~1~~ 6	74764-11-7	IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLMETHYLENE)BEN HC	SEMI2	1046	770J ~~10.~~	J ~~21~~
~~1~~ 7	7206-19-1	3-OCTADECENE, (E)- HC	SEMI2	1110	1900J ~~25.~~	J ~~53~~
~~1~~ 8	629-99-2	PENTACOSANE HC	SEMI2	1142	390J ~~5.~~	J ~~11~~
~~1~~ 9	2490-48-4	1-HEXADECANOL, 2-METHYL- HC	SEMI2	1172	3600J ~~47.~~	J ~~9~~
~~1~~ 10	565-92-4	PREGNAN-20-ONE, 3,11-DIHYDROXY-, (3.ALPHA.,5.BETA.,1 unknown	SEMI2	1170	700J ~~9.~~	J ~~7~~
~~1~~ 11	633-31-8	CHOLEST-5-EN-3-OL (3.BETA.)-, PROPANOATE "	SEMI2	1196	700J ~~9.~~	J ~~7~~
~~1~~ 12	646-31-1	TETRACOSANE "	SEMI2	1205	620J ~~8.~~	J ~~7~~

~~1.000~~ 1.4 40.00

SPECTROSCOPIST LGarber

DATE 5/20/86

FORM1, PART B

SAMPLE NUMBER G-SED

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

COMPUCHEM FILE GH085083C15

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
14 13	5353-25-3	ETHANOL, 2-(9-OCTADECENYLOXY)-, (Z)- unknown	SEMI2	1221	1200 J 16.	J
15 14	629-99-2	PENTACOSANE HC	SEMI2	1244	5100 J 66.	J
16 15	481-26-5	PREGNANE, (5.BETA.)- unknown	SEMI2	1254	540 J 7.	J
17 16	192-97-2	BENZO[E]PYRENE known	SEMI2	1263	310 J 4.	J
18 17	765-27-5	1-EICOSYNE unknown	SEMI2	1313	460 J 6.	J
19 18	629-97-8	DOCOSANE HC	SEMI2	1344	620 J 8.	J
20 19	61142-19-6	CYCLOHEXANE, (1,3-DIMETHYLBUTYL)- unknown	SEMI2	1348	460 J 6.	J
21 20	55334-01-5	PHENANTHRENE, 9-DODECYLTETRADECAHYDRO- "	SEMI2	1370	460 J 6.	J
22 (21)	57-88-5	CHOLEST-5-EN-3-OL (3.BETA.)- "	SEMI2	1396	620 J 8.	J

1.000 48.00

77.4

SPECTROSCOPIST L Gawler

DATE 5/20/86

4. Raw Data — In order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatograms(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)
- Calibration plots (area vs. Concentration) for 4,4'-DDT, 4,4'-DDD, 4,4'-DDE, or taxaphene (where appropriate)

c. Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

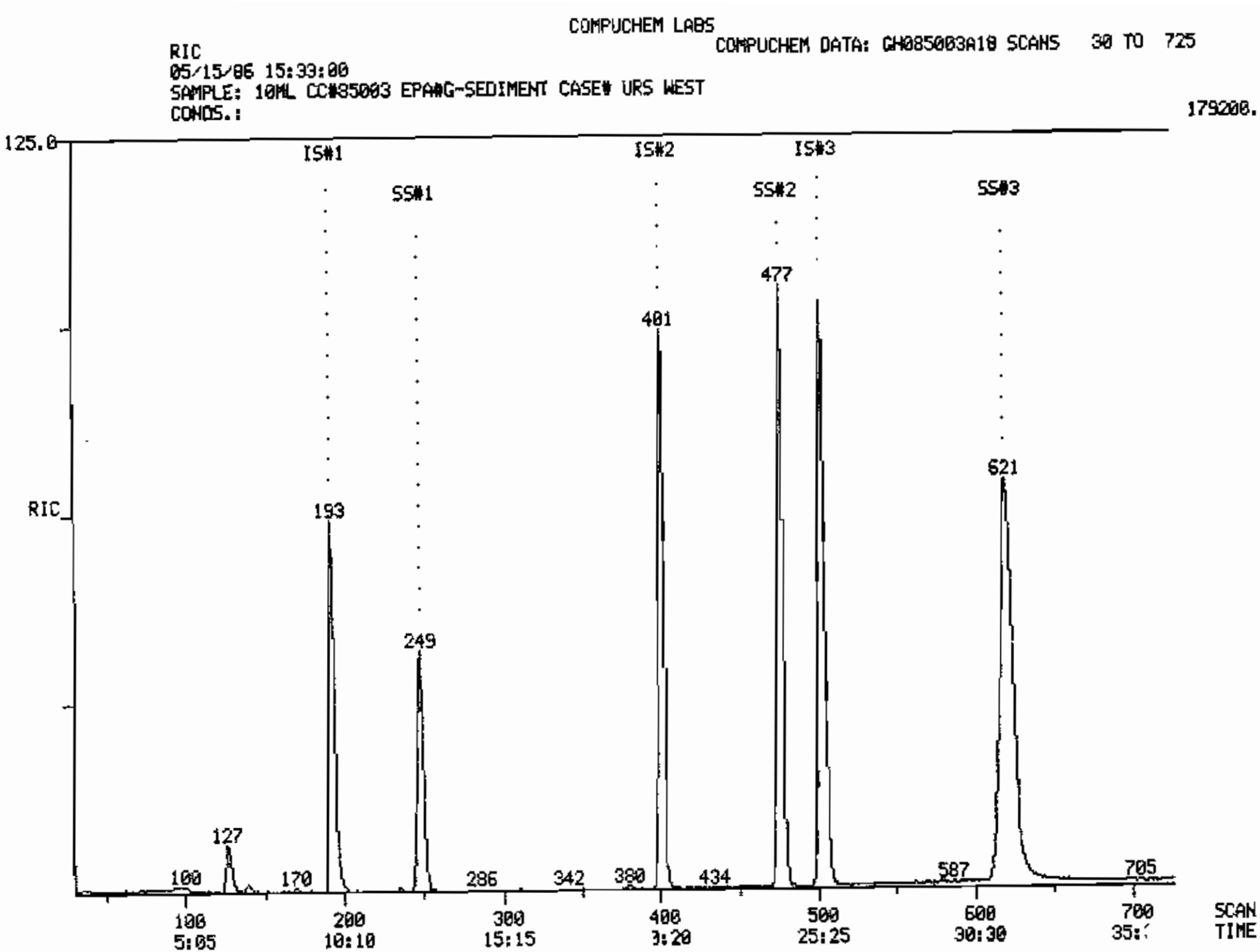
d. GC/MS library search spectra for Tentatively Identified Compounds (TIC)

e. Quantitation Calculation of tentative ID concentrations

f. Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g. Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
COMPUCHEM DATA: GH085003A10 SCANS 30 TO 725
RIC
05/15/86 15:33:00
SAMPLE: 10ML CC#85003 EPA#G-SEDIMENT CASE# URS WEST
CONDS.:
179200.
125.0
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
477
401
621
193
249
127
100
170
286
342
380
434
587
705
RIC
100
5:05
200
10:10
300
15:15
400
3:20
500
25:25
600
30:30
700
35:
SCAN
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: E239 FILENAME: GH085003A18 DATE: 05/15/86
SHIFT STD: GT860515A18 TIME: 15:33

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1	55125.	56744.	-3.	PASS
*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E6#1	216361.	241821.	-11.	PASS
*270 D5-CHLOROBENZENE (IS)	207135.	236805.	-13.	PASS

QUANTITATION REPORT FILE: GH085003A18

DATA: GH085003A18.TI
^5/15/86 15:33:00
MPLE: 10ML CC#85003 EPA#G-SEDIMENT CASE# URS WEST
UNDS.:
SUBMITTED BY: 18 ANALYST: 819

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1
2	221 CHLOROMETHANE <75-01-4> E5#2
3	220 BROMOMETHANE <78-83-9> E5#3
4	231 VINYL CHLORIDE <75-01-4> E5#4
5	209 CHLOROETHANE <75-00-3> E5#5
6	222 METHYLENE CHLORIDE <75-09-2> E5#6
7	252 ACETONE (2-PROPANONE) <67-64-1> E5#7
8	254 CARBON DISULFIDE <75-15-0> E5#8
9	216 1,1-DICHLOROETHYLENE <75-35-4> E5#9
10	214 1,1-DICHLOROETHANE <75-34-3> E5#10
11	226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E5#11
12	211 CHLOROFORM <67-66-3> E5#12
13	215 1,2-DICHLOROETHANE <107-06-2> E5#13
14	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E6#1
15	253 2-BUTANONE <78-93-3> E6#2
16	227 1,1,1-TRICHLOROETHANE <71-55-6> E6#3
17	206 CARBON TETRACHLORIDE <56-23-5>
18	257 VINYL ACETATE <108-05-4> E6#5
19	212 BROMODICHLOROMETHANE <75-27-4> E6#6
20	217 1,2-DICHLOROPROPANE <78-87-5> E6#7
21	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E6#8
22	229 TRICHLOROETHYLENE <79-01-6> E6#9
23	208 CHLORODIBROMOMETHANE <124-48-1> E6#10
24	228 1,1,2-TRICHLOROETHANE <79-00-5> E6#11
25	203 BENZENE <71-43-2> E6#12
26	218 CIS-1,3-DICHLOROPROPENE <10061-01-5> E6#13
27	210 2-CHLOROETHYL VINYL ETHER <110-75-8> E6#14
28	205 BROMOFORM <75-25-2> E6#15
29	*270 D5-CHLOROBENZENE (IS)
30	256 4-METHYL-2-PENTANONE <108-10-1> E7#2
31	255 2-HEXANONE <591-78-6> E7#3
32	224 TETRACHLOROETHENE <127-18-4> E7#4
33	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E7#5
34	225 TOLUENE <108-88-3> E7#6
35	207 CHLOROBENZENE <108-90-7> E7#7
36	219 ETHYLBENZENE <100-41-4> E7#8
37	251 STYRENE <100-42-5> E7#9
38	240 M-XYLENE E7#10
39	271 O,P-XYLENE E7#11
40	#258 D4-1,2-DICHLOROETHANE E8#2
41	#247 BROMOFLUOROBENZENE <460-00-4> E8#3
42	#233 DS-TOLUENE E8#4

]	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	193	9:49	1	1.000	A 88	55125.	50.000 UG/KG	15.58
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	127	6:27	1	0.658	A BB	11202.	9.837	UG/KG	3.06
7	43	140	7:07	1	0.725	A BB	5062.	13.919	UG/KG	4.34
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	401	20:23	14	1.000	A BB	216361.	50.000	UG/KG	15.58
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	NOT FOUND								
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	503	25:34	29	1.000	A BB	207135.	50.000	UG/KG	15.58
30	43	NOT FOUND								
31	43	NOT FOUND								
32	164	NOT FOUND								
33	83	NOT FOUND								
34	92	NOT FOUND								
35	112	NOT FOUND								
36	106	NOT FOUND								
37	104	NOT FOUND								
38	106	NOT FOUND								
39	106	NOT FOUND								
40	65	249	12:39	1	1.290	A BB	82030.	47.976	UG/KG	14.95
41	95	621	31:34	29	1.235	A BB	164827.	50.449	UG/KG	15.72
42	98	477	24:15	1	2.472	A BB	203066.	48.799	UG/KG	15.20

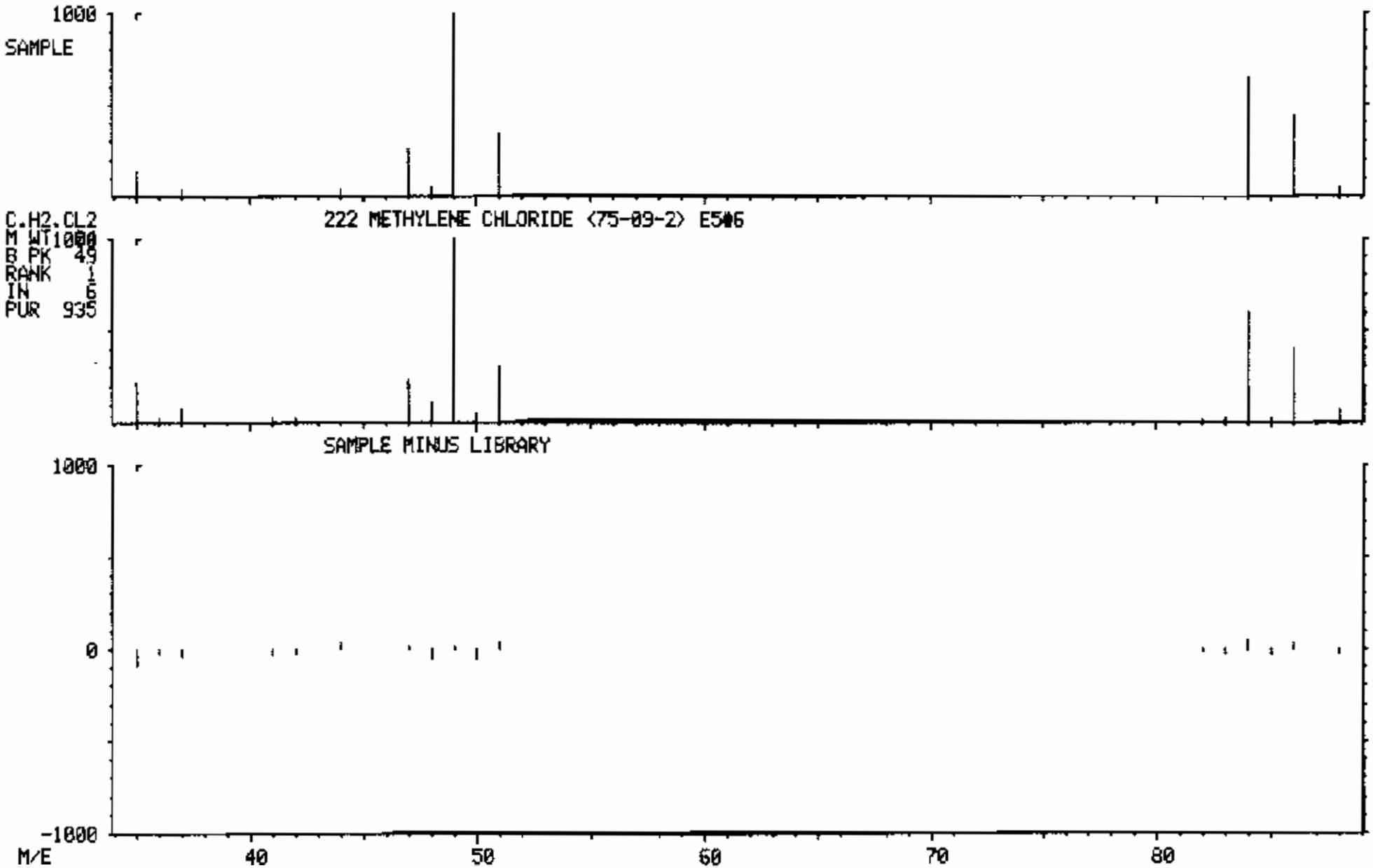
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:49	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:35		10.000			50.00		0.686	
3	2:32		10.000			50.00		1.194	
4	3:18		10.000			50.00		0.685	
5	4:13		10.000			50.00		0.440	
6	6:27	1.00	5.000	0.13	9.84	50.00	0.203	1.033	0.20
7	7:07	1.00	10.000	0.07	13.92	50.00	0.092	0.330	0.28
8	8:05		5.000			50.00		2.315	
9	9:21		5.000			50.00		0.916	
10	10:40		5.000			50.00		1.553	
11	11:23		5.000			50.00		1.033	
12	12:00		5.000			50.00		2.214	
13	12:46		5.000			50.00		1.623	
14	20:26	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

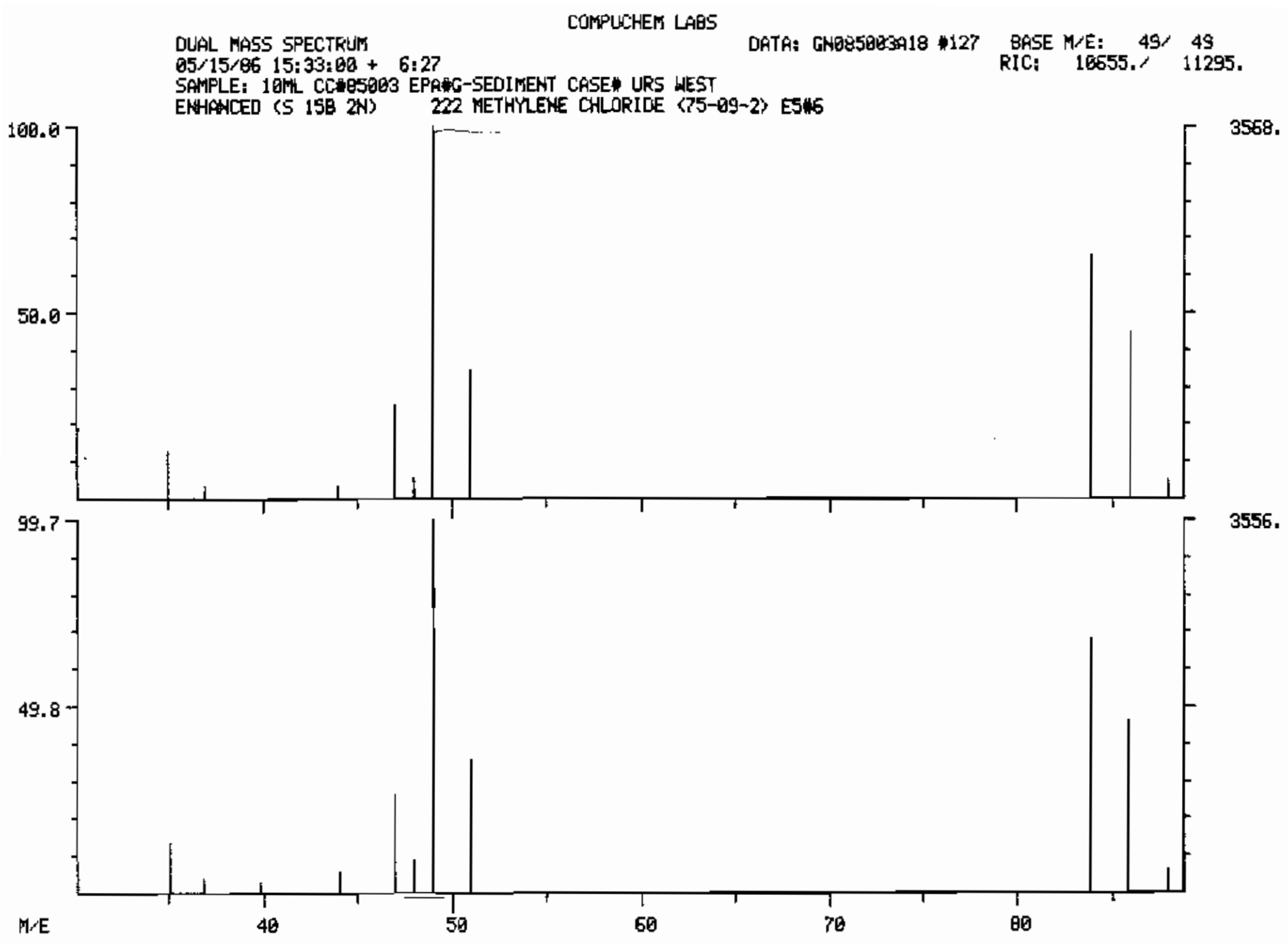
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:39		10.000			50.00		0.027	
'6	14:05		5.000			50.00		0.463	
7	14:29		5.000			50.00		0.603	
18	14:38		10.000			50.00		0.274	
19	15:00		5.000			50.00		0.527	
20	16:25		5.000			50.00		0.279	
21	16:40		5.000			50.00		0.405	
22	17:14		5.000			50.00		0.440	
23	17:54		5.000			50.00		0.612	
24	18:00		5.000			50.00		0.299	
25	17:47		5.000			50.00		0.662	
26	18:00		5.000			50.00		0.303	
27	19:07		10.000			50.00		0.193	
28	20:38		5.000			50.00		0.486	
29	25:34	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:09		10.000			50.00		0.483	
31	22:46		10.000			50.00		0.351	
32	23:05		5.000			50.00		0.459	
33	23:02		5.000			50.00		0.547	
34	24:27		5.000			50.00		0.525	
35	25:43		5.000			50.00		0.839	
36	28:13		5.000			50.00		0.421	
37	33:36		5.000			50.00		1.006	
38	34:00		5.000			50.00		0.637	
39	35:23		5.000			100.00		0.611	
40	12:39	1.00	10.000	0.13	47.98	50.00	1.488	1.551	0.96
41	31:34	1.00	10.000	0.12	50.45	50.00	0.796	0.789	1.01
'2	24:15	1.00	10.000	0.25	48.80	50.00	3.684	3.774	0.98

COMPUCHEM LABS

LIBRARY SEARCH
05/15/86 15:33:00 + 6:27
SAMPLE: 10ML CC#85003 EPA#G-SEDIMENT CASE# URS WEST
ENHANCED (S 15B 2N 0T)

DATA: GH085003A18 # 127
BASE M/E: 49
RIC: 10655.



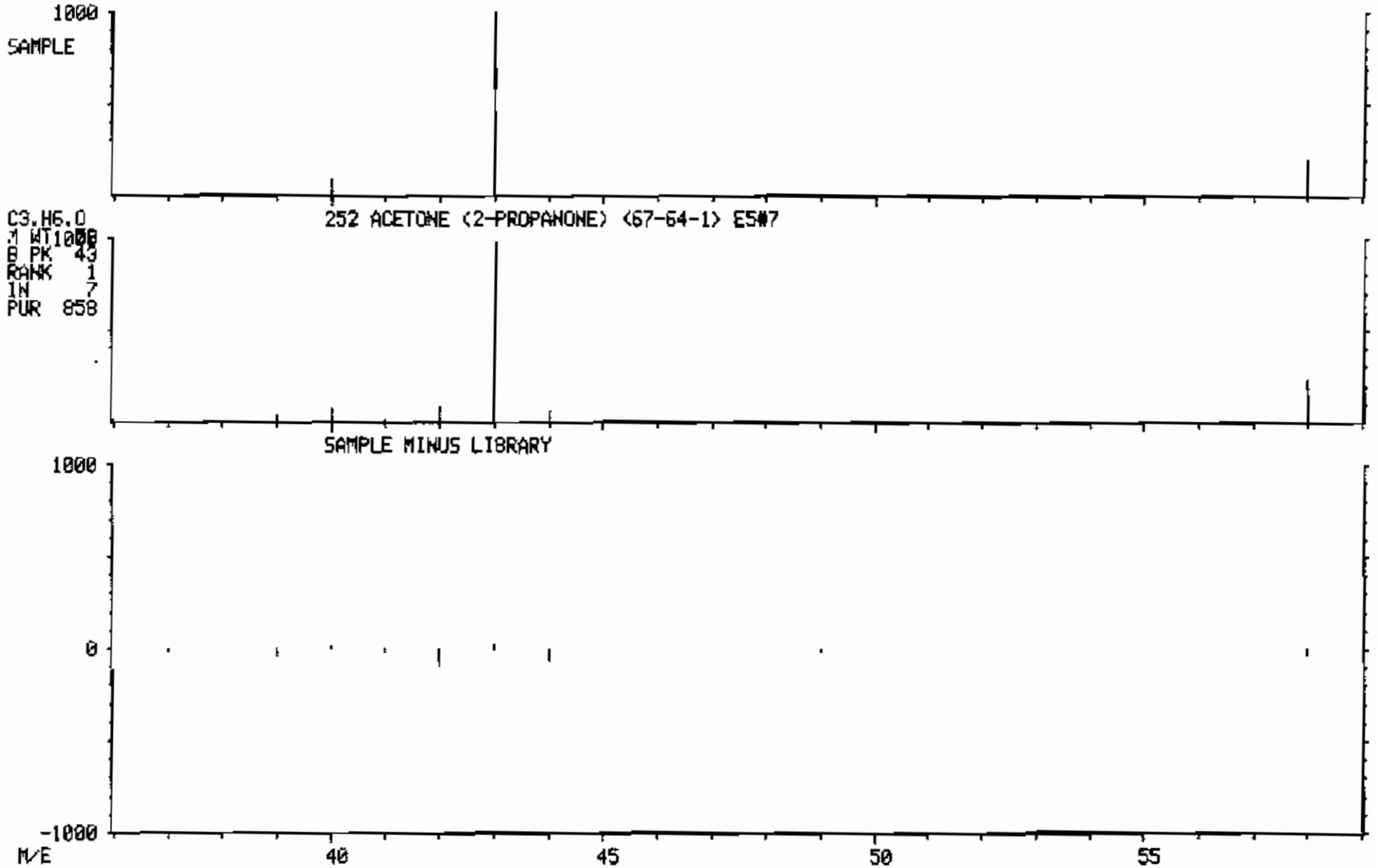

COMPUCHEM LABS
DUAL MASS SPECTRUM
DATA: GN085003A18 #127
BASE M/E: 49/ 49
05/15/86 15:33:00 + 6:27
RIC: 10655./ 11295.
SAMPLE: 10ML CC#05003 EPA#G-SEDIMENT CASE# URS WEST
ENHANCED (S 15B 2N)
222 METHYLENE CHLORIDE (75-09-2) E5#6
100.0
50.0
3568.
99.7
49.8
3556.
M/E
40
50
60
70
80

COMPUCHEM LABS

LIBRARY SEARCH
05/15/86 15:33:00 + 7:07
SAMPLE: 10ML CC#85003 EPA#G-SEDIMENT CASE# URS WEST
ENHANCED (S 15B 2N 0T)

DATA: GH085003A1B # 140

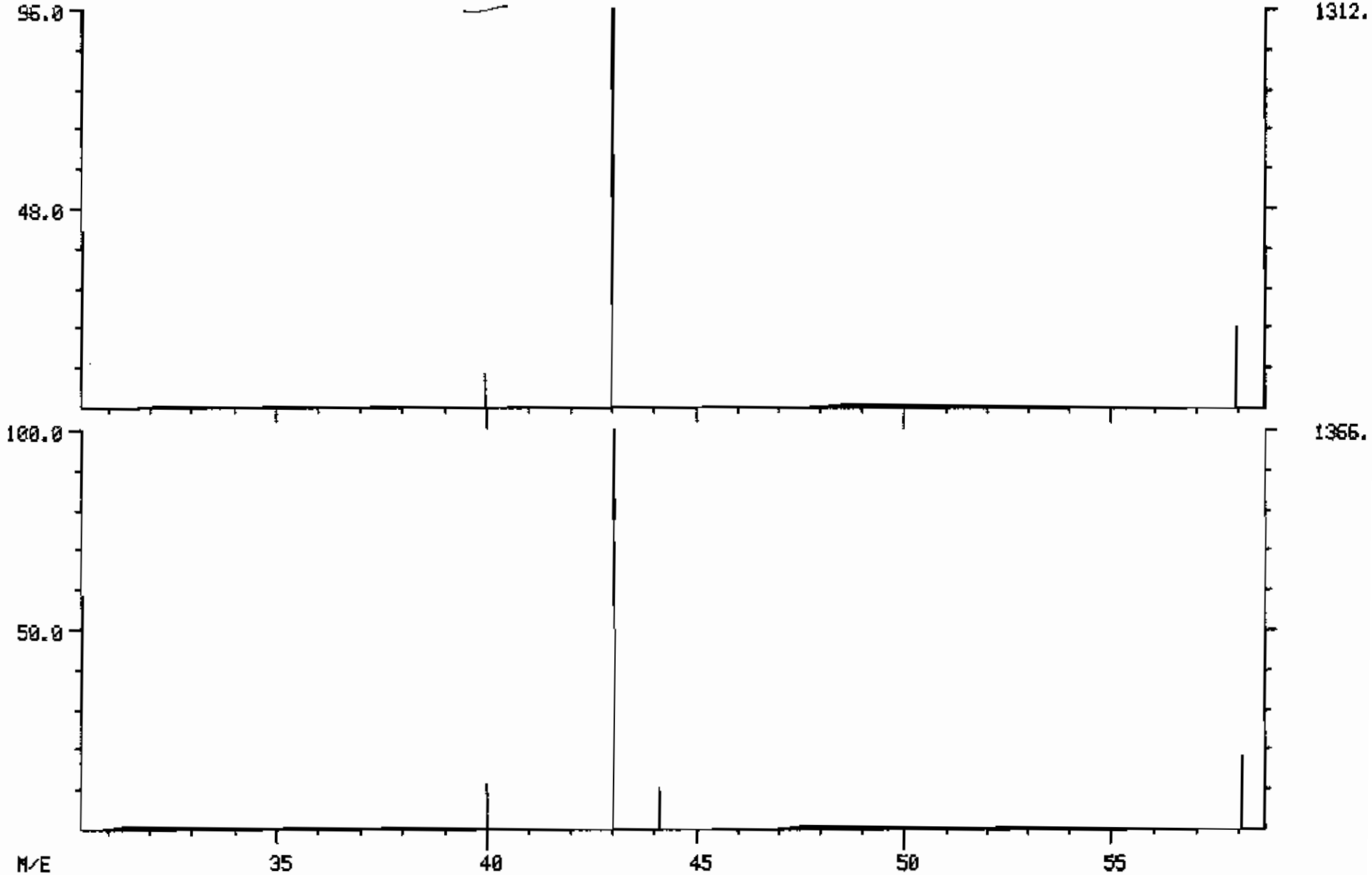
BASE M/E: 43
RIC: 1685.



COMPUCHEM LABS

DUAL MASS SPECTRUM
05/15/86 15:33:00 + 7:07
SAMPLE: 10ML CC#85003 EPA#G-SEDIMENT CASE# URS WEST
ENHANCED (S 15B 2N) 252 ACETONE (2-PROPANONE) (67-64-1) E5#7

DATA: GH085003A18 #140 BASE M/E: 43/ 43
RIC: 1685./ 1901.



COMPUCHEM LABS

RIC

COMPUCHEM DATA: GH085003C15 SCANS 307 TO 1515

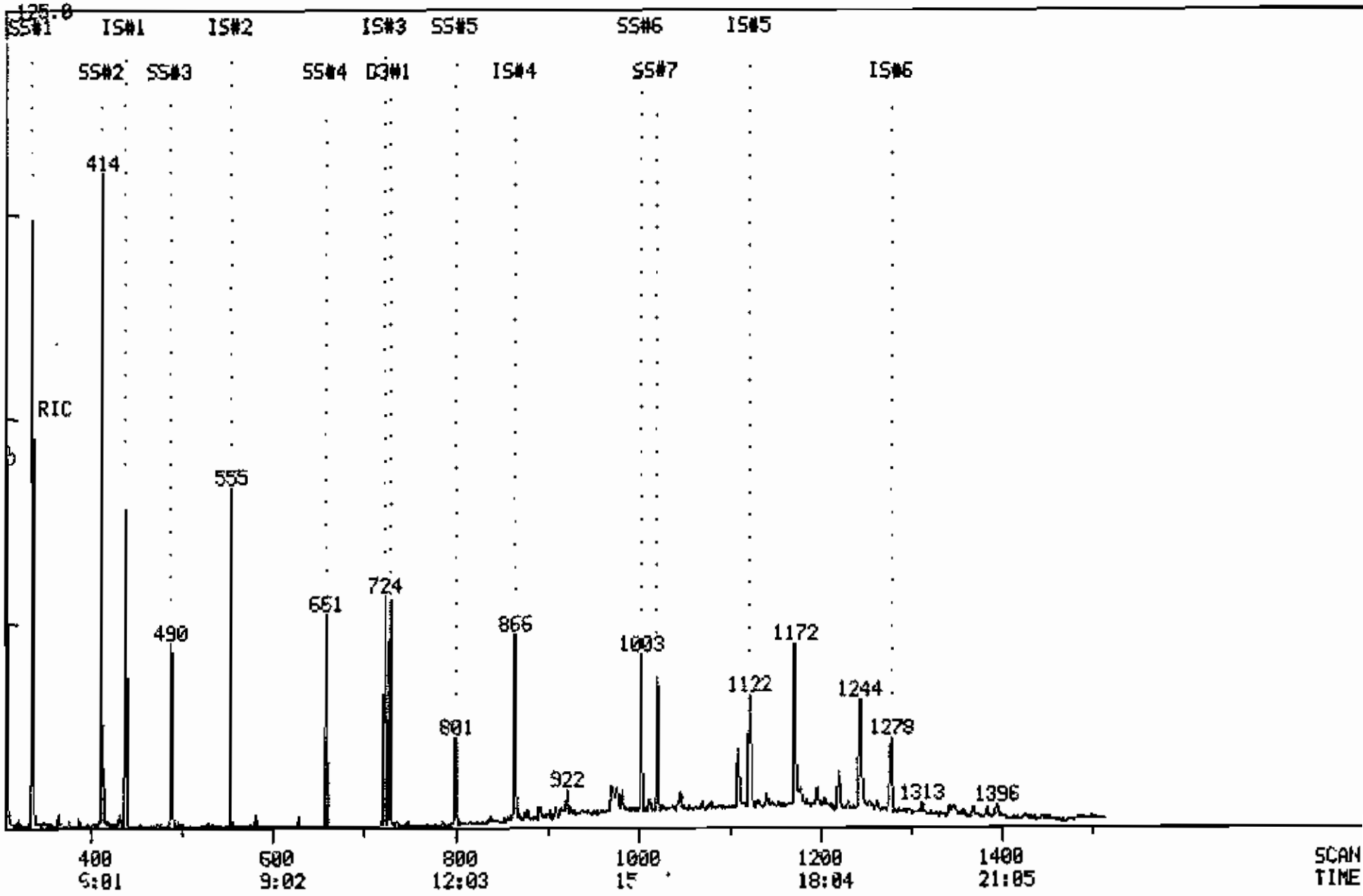
OUT OF 307 TO 1515

05/20/86 6:00:00

SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT

CONDS.:

1538550



INTERNAL STANDARD AREA MONITOR

ETHOD: SEMI2 FILENAME: GH085003C15 DATE: 05/20/86
SHIFT STD: HG86052DC15 TIME: 6:00

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	138458.	163350.	-15.	PASS
*460 D8-NAPHTHALENE (IS#2)	490288.	592504.	-17.	PASS
*495 D10-ACENAPHTHENE (IS#3)	179384.	240772.	-25.	PASS
*467 D10-PHENANTHRENE (IS#4)	212464.	270440.	-21.	PASS
*459 D12-CHRYSENE (IS#5)	152172.	205920.	-26.	PASS
*497 D12-PERYLENE (IS#6)	144936.	201944.	-28.	PASS

QUANTITATION REPORT FILE: QH085003C15

ATA: QH085003C15.TI
05/20/86 6:00:00
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:
SUBMITTED BY: 15 ANALYST: 619

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

NO	NAME
1	*494 D4-1,4-DICHLORDBENZENE (IS#1)
2	610 PHENOL (G1#3) <108-95-2>
3	411 BIS(2-CHLORDETHYL)ETHER (G1#5) <111-44-4>
4	601 2-CHLOROPHENOL (G1#6) <95-57-8>
5	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
6	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
7	474 BENZYL ALCOHOL (G1#9) <100-51-6>
8	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
9	620 2-METHYLPHENOL (G1#11) <95-48-7>
10	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
11	622 4-METHYLPHENOL (G1#13) <106-44-5>
12	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
13	436 HEXACHLORDETHANE (G1#15) <67-72-1>
14	440 NITROBENZENE (G1#16) <98-95-3>
15	*460 D8-NAPHTHALENE (IS#2)
16	438 ISOPHORONE (G2#2) <78-59-1>
17	606 2-NITROPHENOL (G2#3) <88-75-5>
18	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
19	625 BENZOIC ACID (G2#5) <65-85-0>
20	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
21	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
22	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
23	439 NAPHTHALENE (G2#9) <91-20-3>
24	475 4-CHLOROANILINE (G2#10) <106-47-8>
25	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
26	608 P-CHLORO-M-CRESOL (G2#12) <59-50-7>
27	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
28	*495 D10-ACENAPHTHENE (IS#3)
29	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
30	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
31	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
32	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
33	478 2-NITROANILINE (G3#6) <88-74-4>
34	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
35	402 ACENAPHTHYLENE (G3#8) <208-96-8>
36	479 3-NITROANILINE (G3#9) <99-09-2>
37	401 ACENAPHTHENE (G3#10) <83-32-9>
38	@605 2,4-DINITROPHENOL (G3#11) <51-28-5>
39	607 4-NITROPHENOL (G3#12) <100-02-7>
40	476 DIBENZOFURAN (G3#13) <132-64-9>
41	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
42	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
43	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
44	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
45	432 FLUORENE (G3#18) <86-73-7>
46	480 4-NITROANILINE (G3#19) <100-01-6>

NO	NAME
47	*467 D10-PHENANTHRENE (IS#4)
48	604 4,6-DINITRO-2-METHYLPHENOL (G4#2) <534-52-1>
49	443 N-NITROSODIPHENYLAMINE (G4#3) <86-30-6>
50	414 4-BROMOPHENYL PHENYL ETHER (G4#4) <101-55-3>
51	433 HEXACHLOROBENZENE (G4#5) <118-74-1>
52	609 PENTACHLOROPHENOL (G4#6) <87-86-5>
53	444 PHENANTHRENE (G4#7) <85-01-8>
54	403 ANTHRACENE (G4#8) <120-12-7>
55	426 DI-N-BUTYL PHTHALATE (G4#9) <84-74-2>
56	431 FLUORANTHENE (G4#10) <206-44-0>
57	*459 D12-CHRYSENE (IS#5)
58	445 PYRENE (G5#3) <129-00-0>
59	415 BUTYLBENZYL PHTHALATE (G5#4) <85-68-7>
60	423 3,3'-DICHLOROBENZIDINE (G5#5) <91-94-1>
61	405 BENZO(A)ANTHRACENE (G5#6) <56-55-3>
62	413 BIS(2-ETHYLHEXYL) PHTHALATE (G5#7) <117-81-7>
63	418 CHRYSENE (G5#8) <218-01-9>
64	*497 D12-PERYLENE (IS#6)
65	429 DI-N-OCTYL PHTHALATE (G6#2) <117-84-0>
66	407 BENZO(B)FLUORANTHENE (G6#3) <205-99-2>
67	409 BENZO(K)FLUORANTHENE (G6#4) <207-08-9>
68	406 BENZO(A)PYRENE (G6#5) <50-32-8>
69	437 INDENO(1,2,3-C,D)PYRENE (G6#6) <193-39-5>
70	419 DIBENZO(A,H)ANTHRACENE (G6#7) <53-70-3>
71	408 BENZO(G,H,I)PERYLENE (G6#8) <191-24-2>
72	#619 2-FLUOROPHENOL (SS#1)
73	#612 D5-PHENOL (SS#2)
74	#447 D5-NITROBENZENE (SS#3)
75	#448 2-FLUOROBIPHENYL (SS#4)
76	#628 2,4,6-TRIBROMOPHENOL (SS#5)
77	#496 D14-TERPHENYL (SS#6)
78	#471 D10-PYRENE
79	456 1,2,3,4-TETRACHLOROBENZENE

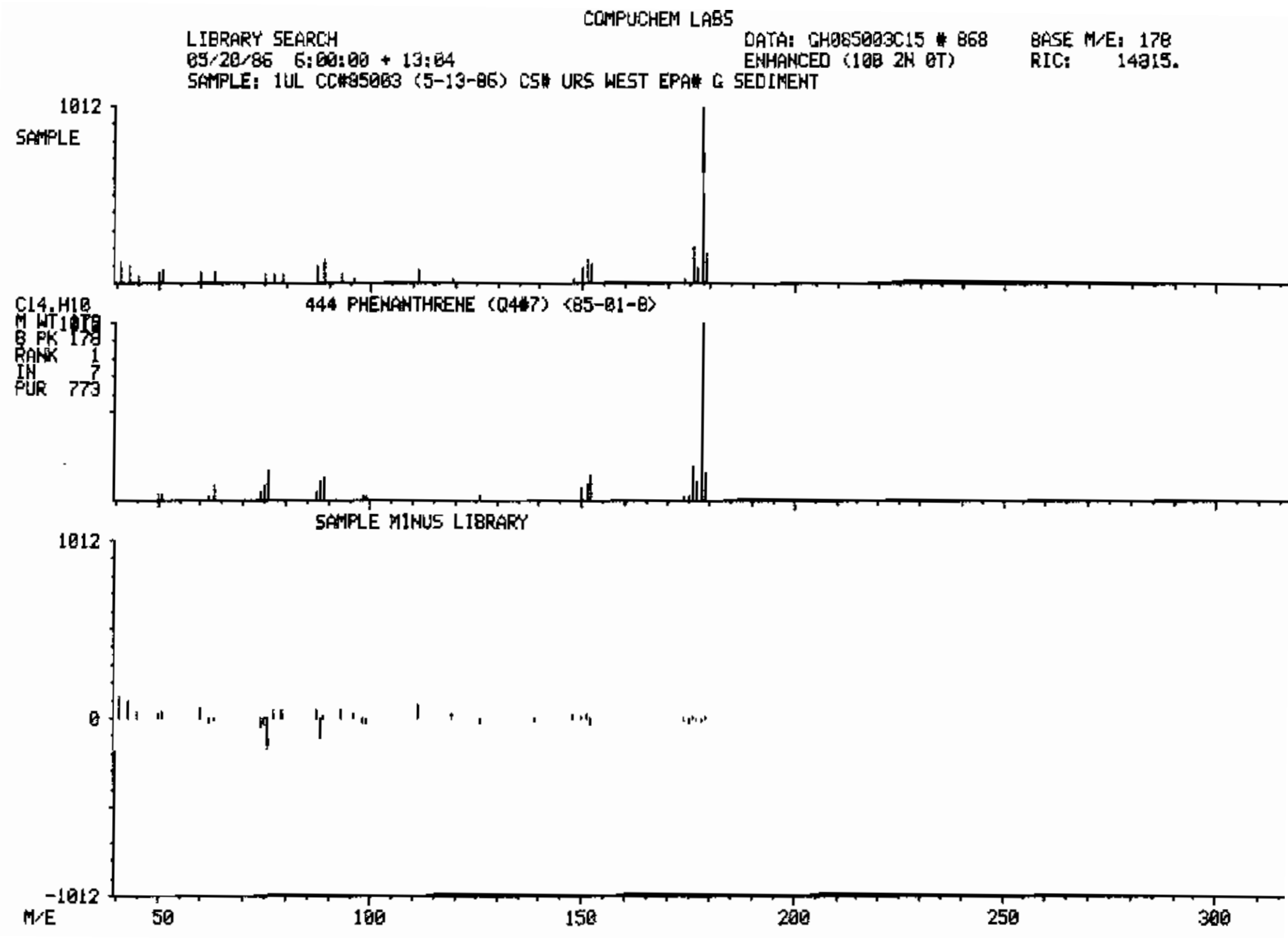
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	440	6:38	1	1.000	A BB	138488.	40.000 NG	6.57
2	94	NOT FOUND							
3	93	NOT FOUND							
4	128	NOT FOUND							
5	146	NOT FOUND							
6	146	NOT FOUND							
7	108	NOT FOUND							
8	146	NOT FOUND							
9	108	NOT FOUNO							
10	45	NOT FOUND							
11	108	NOT FOUND							
12	70	NOT FOUND							
13	117	NOT FOUND							
14	77	NOT FOUND							
15	136	555	8:21	15	1.000	A BV	490288.	40.000 NG	6.57
16	82	NOT FOUND							
17	139	NOT FOUNO							
18	122	NOT FOUND							
19	122	NOT FOUND							
20	93	NOT FOUND							
21	162	NOT FOUND							

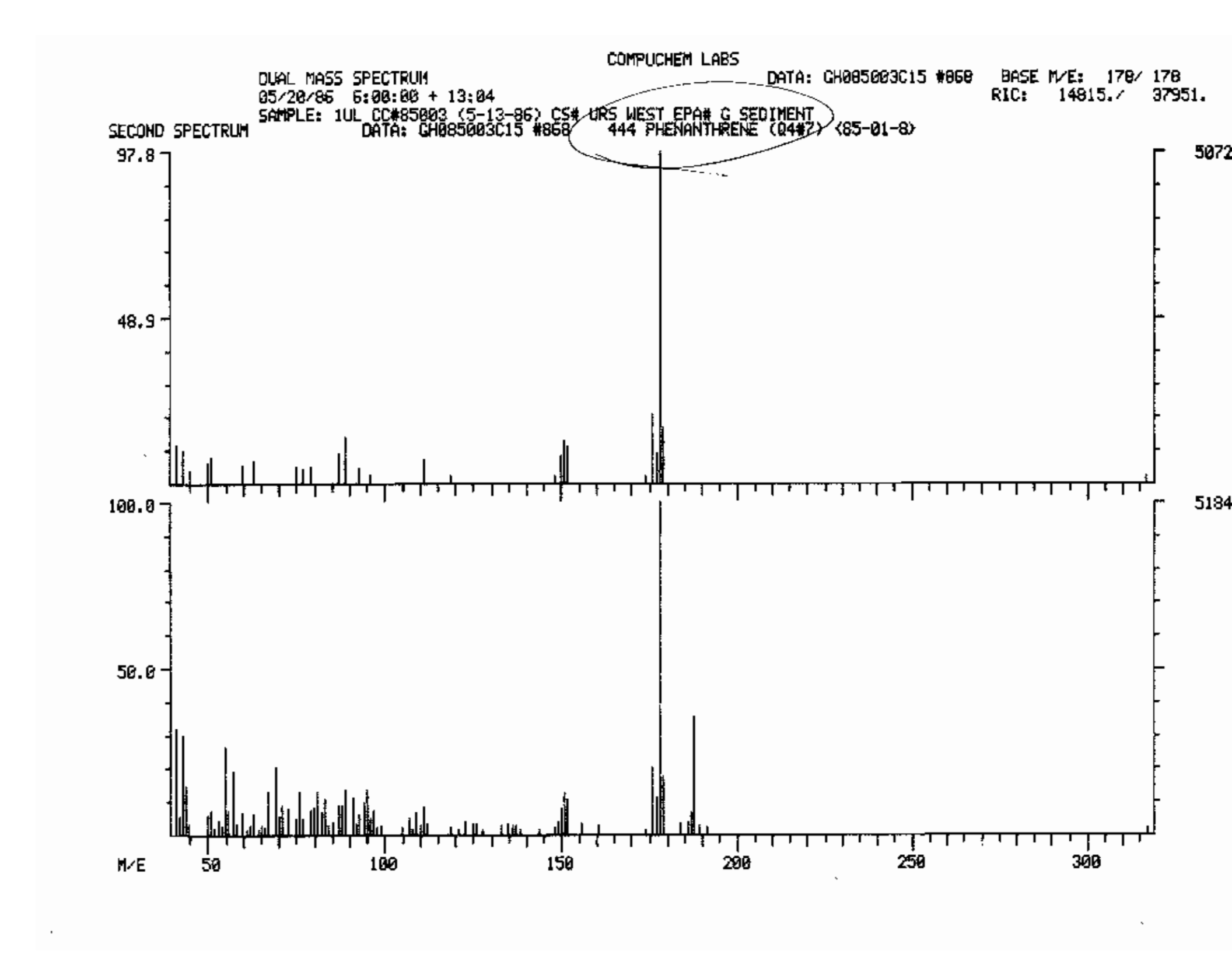
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
22	180	NOT FOUND							
23	128	NOT FOUND							
24	127	NOT FOUND							
25	225	NOT FOUND							
26	107	NOT FOUND							
27	142	NOT FOUND							
28	164	724	10:54	2S	1.000	A VB	179384.	40.000 NG	6.57
29	237	NOT FOUND							
30	196	NOT FOUND							
31	196	NOT FOUND							
32	162	NOT FOUND							
33	65	NOT FOUND							
34	163	NOT FOUND							
35	152	NOT FOUND							
36	138	NOT FOUND							
37	153	NOT FOUND							
38	184	NOT FOUND							
39	139	NOT FOUND							
40	168	NOT FOUND							
41	89	NOT FOUND							
42	165	NOT FOUND							
43	149	NOT FOUND							
44	204	NOT FOUND							
45	166	NOT FOUND							
46	138	NOT FOUND							
47	188	866	13:03	47	1.000	A VV	212464.	40.000 NG	6.57
48	198	NOT FOUND							
49	169	NOT FOUND							
50	248	NOT FOUND							
51	284	NOT FOUND							
52	266	NOT FOUND							
53	178	868	13:04	47	1.002	A BV	10736.	1.445 NG	0.24
54	178	868	13:04	47	1.002	A BV	10736.	1.979 NG	0.32
55	149	NOT FOUND							
56	202	983	14:48	47	1.135	A BV	21116.	3.201 NG	0.53
57	240	1122	16:54	57	1.000	A BV	152172.	40.000 NG	6.57
58	202	1004	15:07	57	0.895	A VV	19664.	3.274 NG	0.54
59	149	NOT FOUND							
60	252	NOT FOUND							
61	228	1121	16:53	57	0.999	A BV	9288.	1.860 NG	0.31
62	149	1130	17:01	57	1.007	A BB	8965.	2.231 NG	0.37
63	228	1125	16:57	57	1.003	A*BB	18052.	4.481 NG	0.74
64	264	1278	19:15	64	1.000	A BV	144936.	40.000 NG	6.57
65	149	NOT FOUND							
66	252	1230	18:31	64	0.962	A*BV	16492.	3.986 NG	0.65
67	252	1230	18:31	64	0.962	A*BV	16492.	3.986 NG	0.65
68	252	1269	19:07	64	0.993	A BB	8216.	2.083 NG	0.34
69	276	1453	21:53	64	1.137	A*BV	5416.	1.070 NG	0.18
70	278	NOT FOUND							
71	276	1507	22:42	64	1.179	A BB	4552.	1.095 NG	0.18
72	112	338	5:05	1	0.768	A BV	437916.	69.163 NG	11.36
73	99	414	6:14	1	0.941	A BV	564156.	70.303 NG	11.55
74	82	490	7:23	15	0.883	A BV	240692.	35.058 NG	5.76
75	172	660	9:56	28	0.912	A BV	235916.	41.153 NG	6.76
76	141	801	12:04	28	1.106	A BB	16896.	47.643 NG	7.82
77	244	1021	15:23	57	0.910	A VV	137208.	37.812 NG	6.21

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
78	212	1003	15:06	57	0.894	A VV	175932.	37.146	NG	6.10
79	216	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:38	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	6:15		10.000			50.00		2.696	
3	6:20		10.000			50.00		2.085	
4	6:24		10.000			50.00		1.722	
5	6:35		10.000			50.00		1.663	
6	6:39		10.000			50.00		1.704	
7	6:51		10.000			50.00		1.140	
8	6:54		10.000			50.00		1.560	
9	7:03		10.000			50.00		1.478	
10	7:05		10.000			50.00		3.325	
11	7:14		10.000			50.00		1.835	
12	7:16		10.000			50.00		1.618	
13	7:19		10.000			50.00		0.846	
14	7:25		10.000			50.00		2.176	
15	8:22	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
16	7:45		10.000			50.00		1.109	
17	7:53		10.000			50.00		0.246	
18	7:57		10.000			50.00		0.344	
19	8:06		50.000			50.00		0.255	
20	8:05		10.000			50.00		0.534	
21	8:12		10.000			50.00		0.276	
22	8:20		10.000			50.00		0.301	
23	8:24		10.000			50.00		1.080	
24	8:31		10.000			50.00		0.477	
25	8:41		10.000			50.00		0.094	
26	9:12		10.000			50.00		0.371	
27	9:24		10.000			50.00		0.598	
28	10:54	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
29	9:44		10.000			50.00		0.330	
30	9:53		10.000			100.00		0.354	
31	9:53		50.000			100.00		0.354	
32	10:04		10.000			50.00		1.260	
33	10:15		50.000			50.00		0.582	
34	10:35		10.000			50.00		1.382	
35	10:41		10.000			50.00		1.995	
36	10:51		50.000			50.00		0.403	
37	10:57		10.000			50.00		1.199	
38	11:01		50.000			50.00		0.112	
39	11:07		50.000			50.00		0.274	
40	11:11		10.000			50.00		1.583	
41	11:14		10.000			50.00		0.558	
42	10:40		10.000			50.00		0.311	
43	11:38		10.000			50.00		1.393	
44	11:42		10.000			50.00		0.519	
45	11:41		10.000			50.00		1.242	
46	11:45		50.000			50.00		0.321	
47	13:02	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
48	11:49		50.000			50.00		0.138	
49	11:52		10.000			50.00		0.765	
50	12:24		10.000			50.00		0.296	
51	12:36		10.000			50.00		0.391	
52	12:51		50.000			50.00		0.130	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
53	13:04	1.00	10.000	0.10	1.45	50.00	0.040	1.398	0.03
54	13:08	1.00	10.000	0.10	1.98	50.00	0.040	1.021	0.04
55	13:59		10.000			50.00		1.590	
56	14:48	1.00	10.000	0.11	3.20	50.00	0.080	1.242	0.06
57	16:54	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
58	15:07	1.00	10.000	0.09	3.27	50.00	0.103	1.579	0.07
59	16:08		10.000			50.00		0.740	
60	16:50		20.000			50.00		0.444	
61	16:52	1.00	10.000	0.10	1.86	50.00	0.049	1.313	0.04
62	17:00	1.00	10.000	0.10	2.23	50.00	0.047	1.056	0.04
63	16:56	1.00	10.000	0.10	4.48	50.00	0.095	1.059	0.09
64	19:12	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
65	17:53		10.000			50.00		2.717	
66	18:30	1.00	10.000	0.10	3.99	100.00	0.046	1.142	0.04
67	18:30	1.00	10.000	0.10	3.99	100.00	0.046	1.142	0.04
68	19:06	1.00	10.000	0.10	2.08	50.00	0.045	1.089	0.04
69	21:53	1.00	10.000	0.11	1.07	50.00	0.030	1.397	0.02
70	21:55		10.000			50.00		1.136	
71	22:40	1.00	10.000	0.12	1.09	50.00	0.025	1.148	0.02
72	5:05	1.00	0.742	1.04	69.16	50.00	2.530	1.829	1.38
73	6:14	1.00	0.948	0.99	70.30	50.00	3.259	2.318	1.41
74	7:25	1.00	0.875	1.01	35.06	50.00	0.393	0.560	0.70
75	9:57	1.00	0.906	1.01	41.15	50.00	1.052	1.278	0.82
76	12:04	1.00	1.118	0.99	47.64	50.00	0.075	0.079	0.95
77	15:23	1.00	0.907	1.00	37.81	50.00	0.721	0.954	0.76
78	15:05	1.00	10.000	0.09	37.15	50.00	0.925	1.245	0.74
79	10:05		1.000			50.00		0.213	


COMPUCHEM LABS
LIBRARY SEARCH
05/20/86 6:00:00 + 13:04
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
DATA: GH085003C15 # 868
ENHANCED (10B 2N 0T)
BASE M/E: 178
RIC: 14315.
1012
SAMPLE
C14.H10
M WT 178
B PK 178
RANK 1
IN 7
PUR 773
444 PHENANTHRENE (Q4#7) <85-01-8>
SAMPLE MINUS LIBRARY
1012
0
-1012
M/E
50
100
150
200
250
300

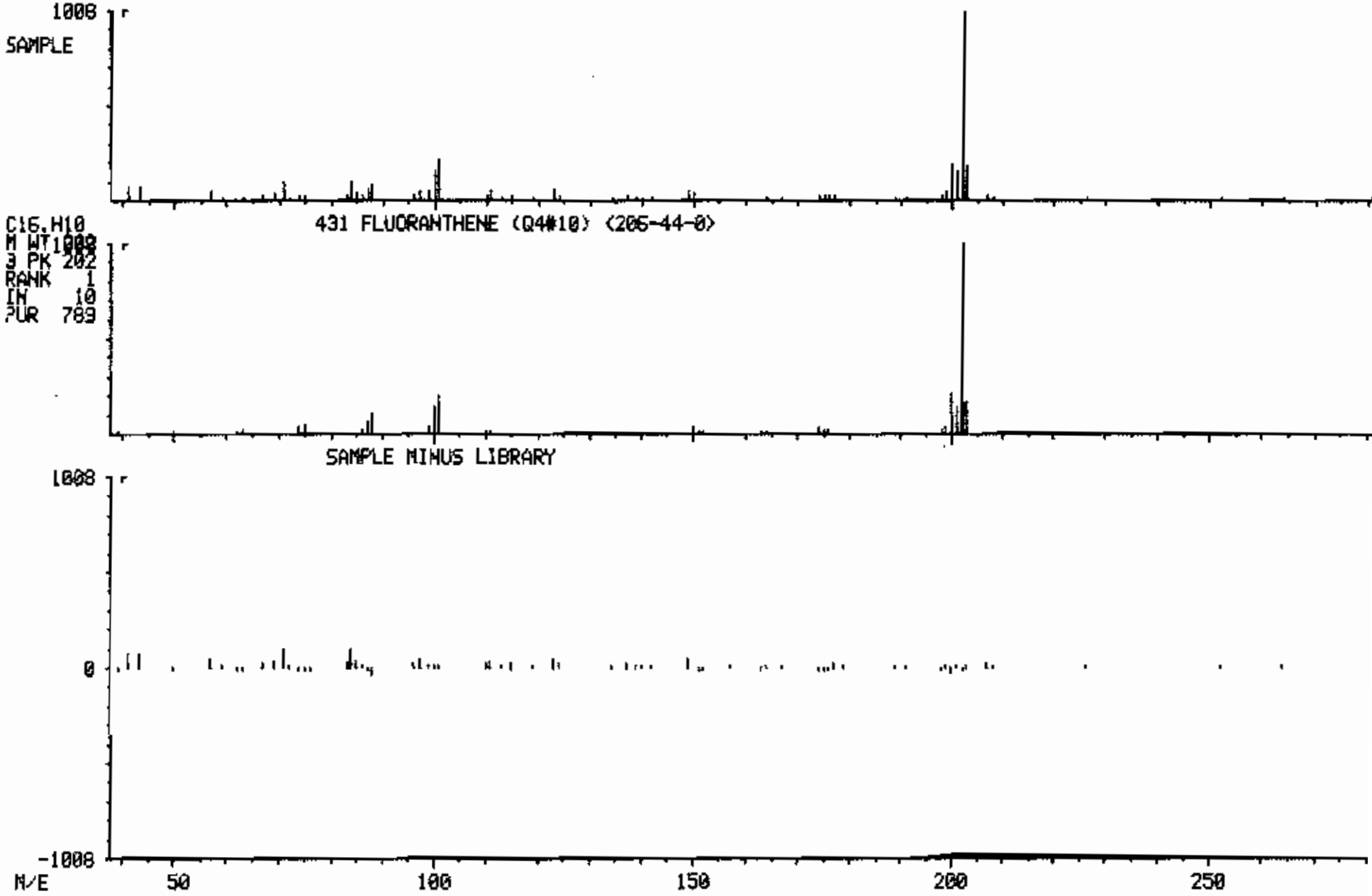

COMPUCHEM LABS
DUAL MASS SPECTRUM
05/20/86 6:00:00 + 13:04
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
DATA: GH085003C15 #860 BASE M/E: 178/ 178
RIC: 14815./ 37951.
SECOND SPECTRUM
DATA: GH085003C15 #868
444 PHENANTHRENE (Q4#7) (85-01-8)
97.8
48.9
5072
100.0
50.0
5184
M/E
50
100
150
200
250
300

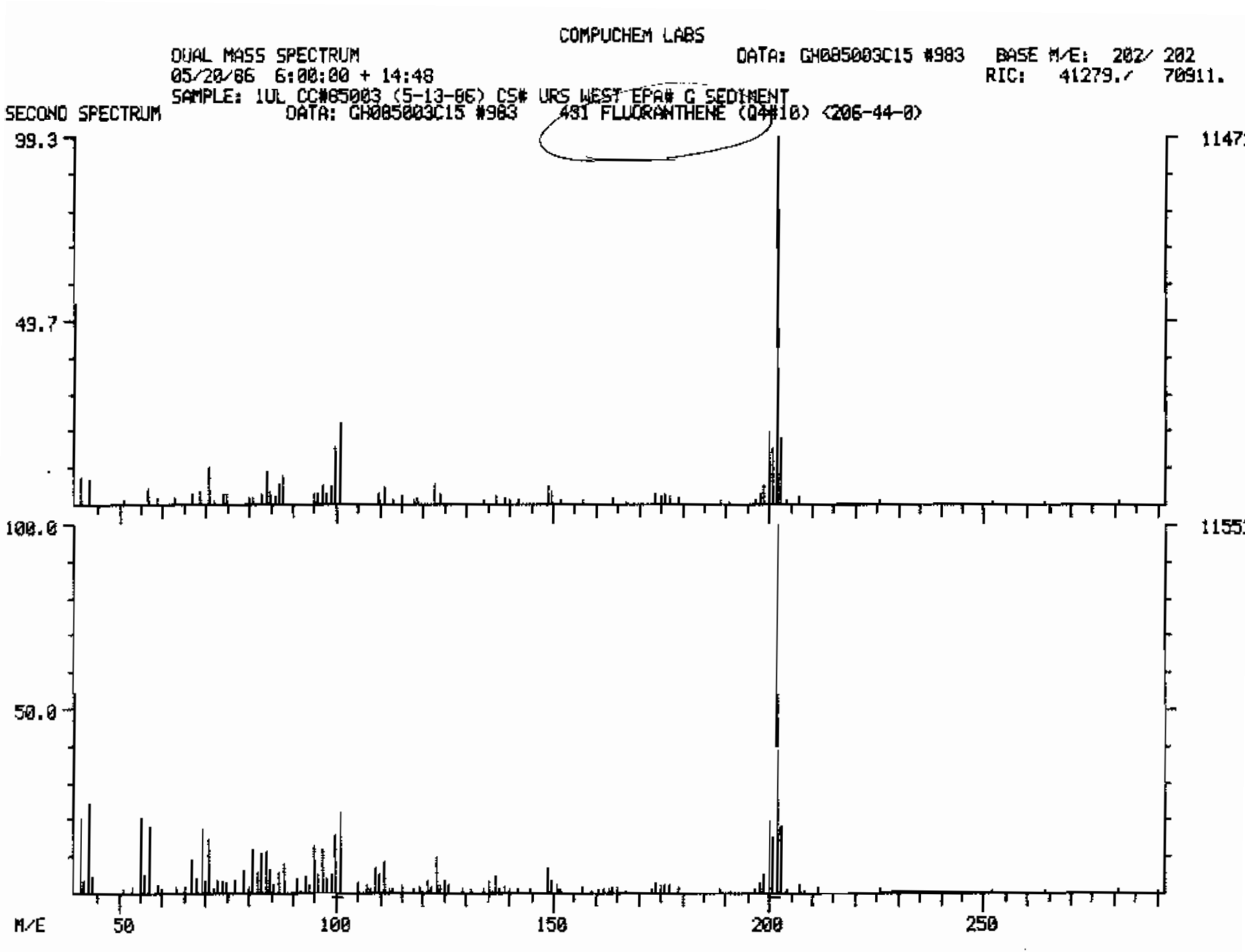
COMPUCHEM LABS

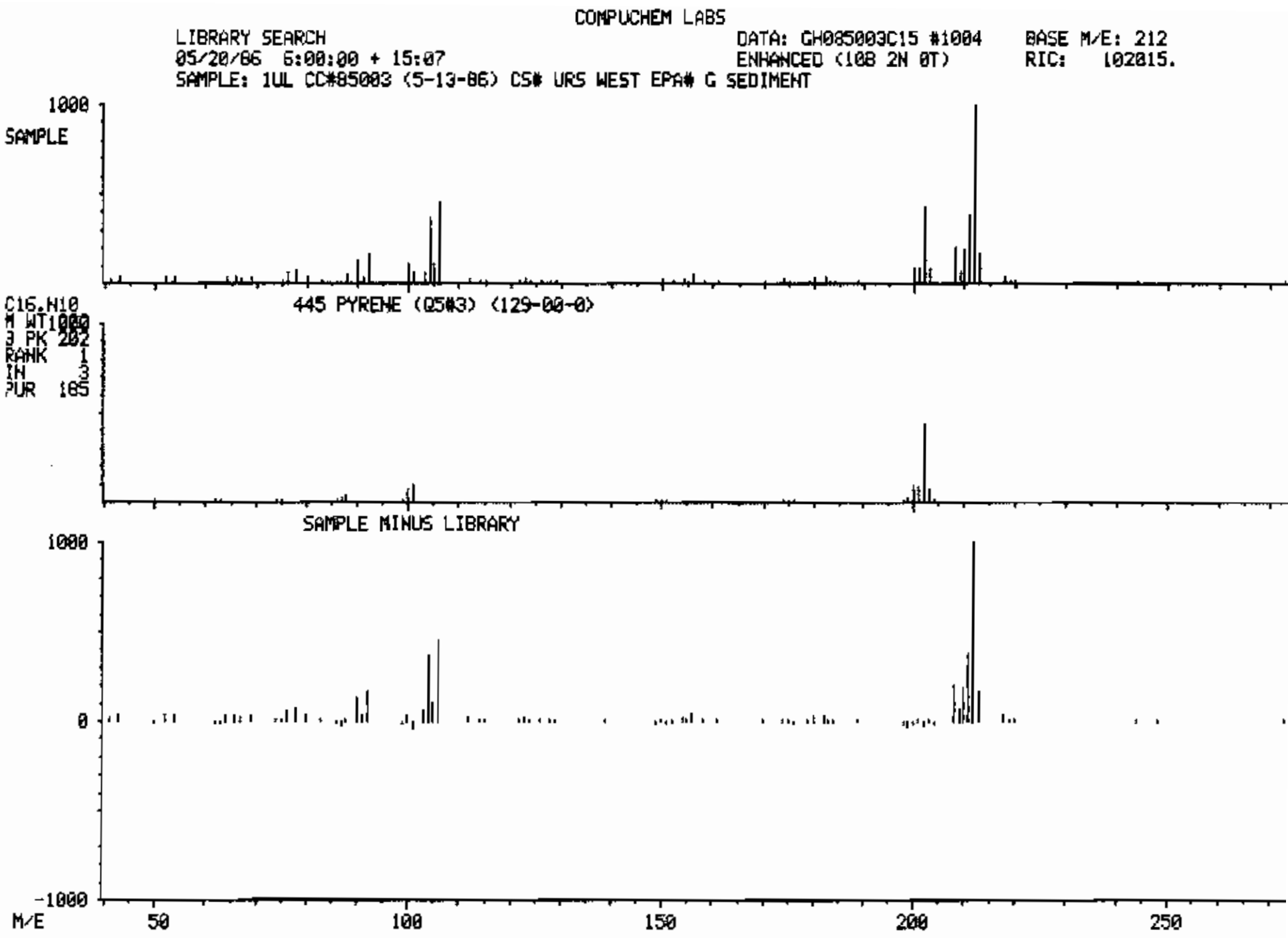
LIBRARY SEARCH
05/20/86 6:00:00 + 14:48
SAMPLE: 1UL CC#85003 (5-13-86) C5# URS WEST EPA# G SEDIMENT

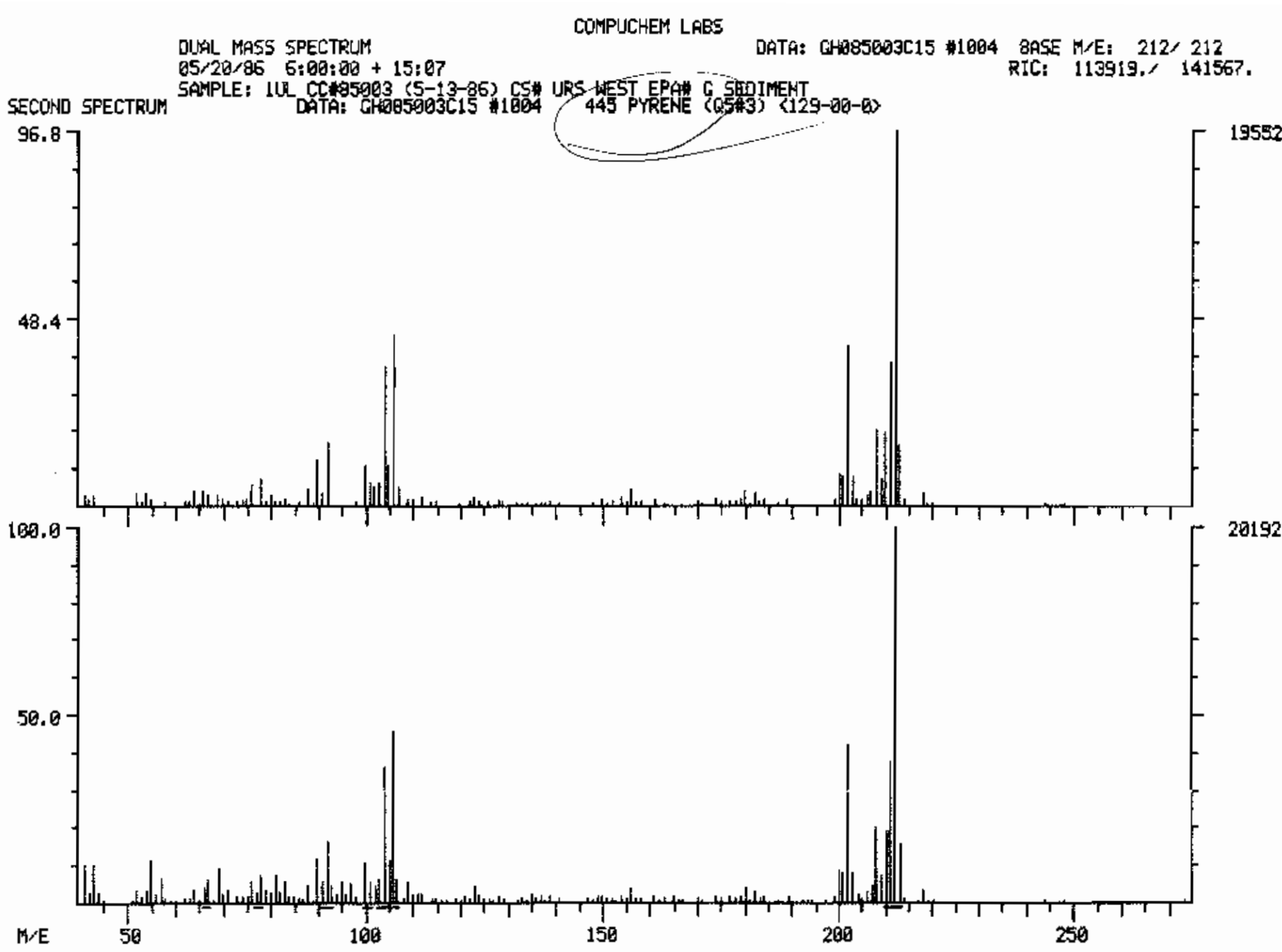
DATA: GH085003C15 # 983
ENHANCED (10B 2N 0T)

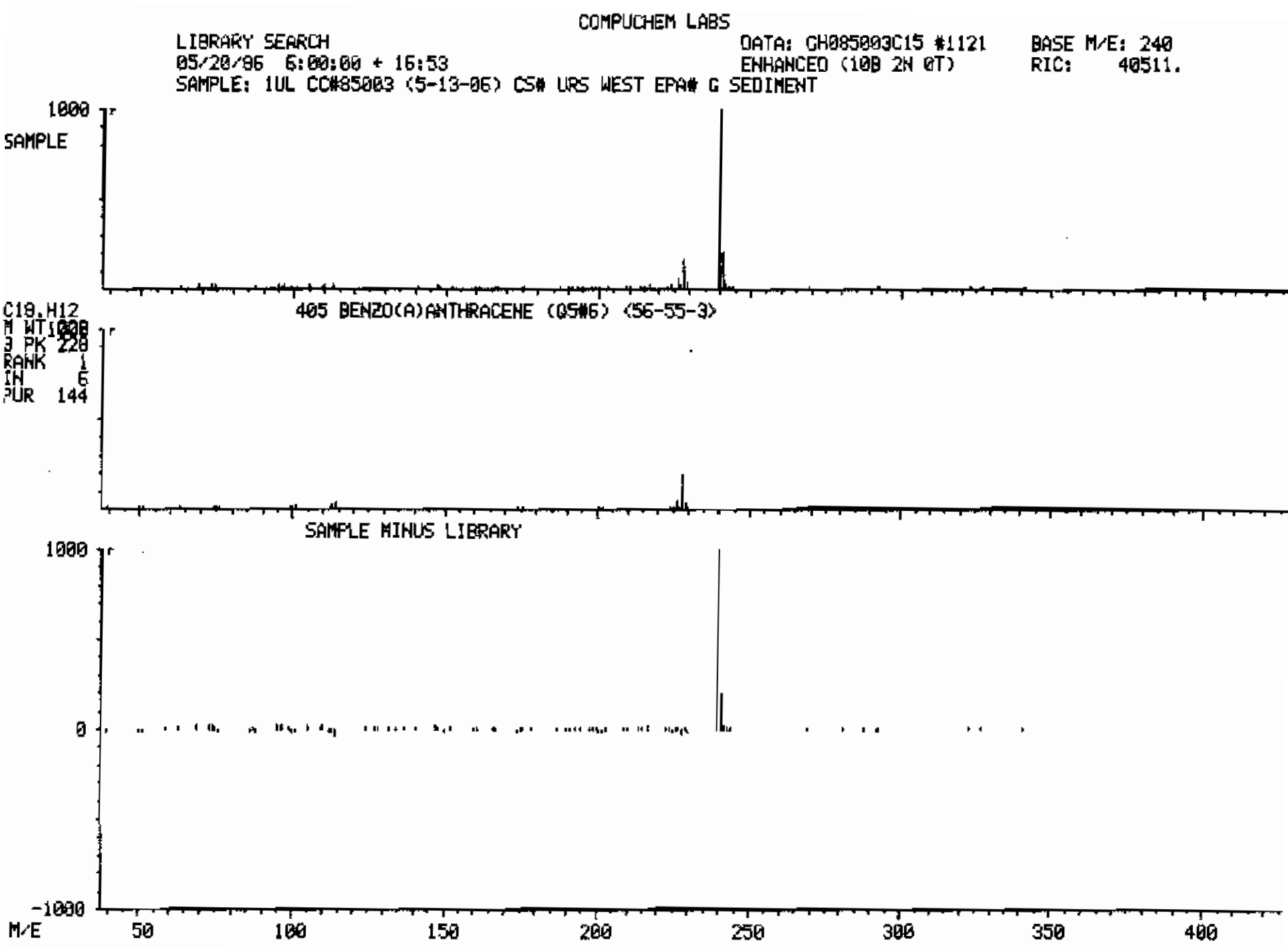
BASE M/E: 202
RIC: 39807.

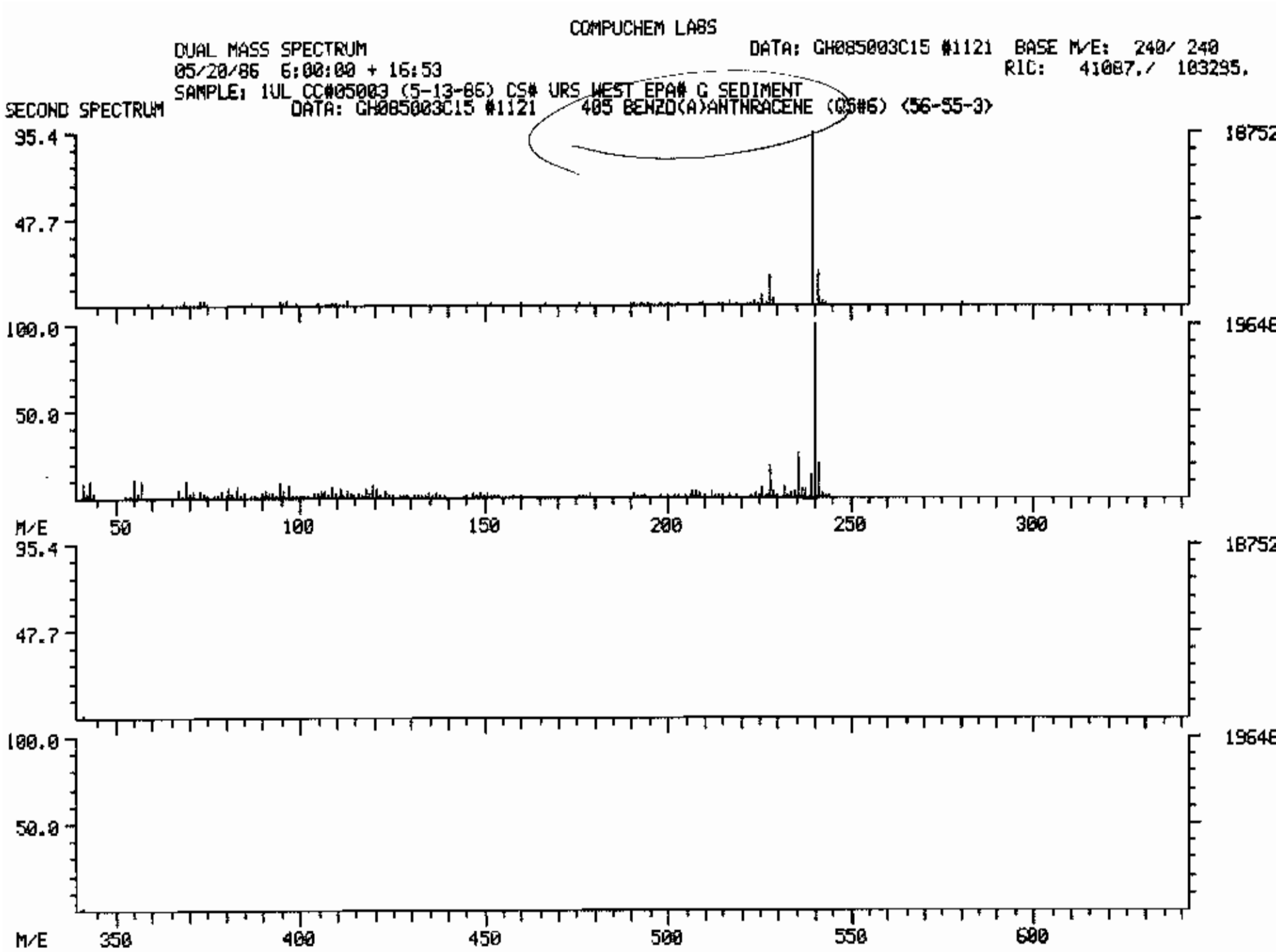



COMPUCHEM LABS
DUAL MASS SPECTRUM
05/20/86 6:00:00 + 14:48
DATA: GH085003C15 #983
BASE M/E: 202/ 202
RIC: 41279./ 70911.
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
SECOND SPECTRUM
DATA: GH085003C15 #983 431 FLUORANTHENE (Q4#10) <206-44-0>
99.3
49.7
100.0
50.0
M/E
50
100
150
200
250


COMPUCHEM LABS
LIBRARY SEARCH
05/20/86 6:00:00 + 15:07
DATA: GH085003C15 #1004
ENHANCED (10B 2N 0T)
BASE M/E: 212
RIC: 102815.
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
1000
SAMPLE
445 PYRENE (Q5#3) (129-00-0)
C16.H10
M WT202
3 PK 202
RANK 1
IN 3
PUR 185
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
50
100
150
200
250


COMPUCHEM LABS
DUAL MASS SPECTRUM
05/20/86 6:00:00 + 15:07
SAMPLE: LUL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
DATA: GH085003C15 #1004 BASE M/E: 212/ 212
RIC: 113919./ 141567.
SECOND SPECTRUM
DATA: GH085003C15 #1004 445 PYRENE (Q5#3) <129-00-0>
96.8
48.4
19552
100.0
50.0
20192
M/E
50
100
150
200
250


COMPUCHEM LABS
LIBRARY SEARCH
05/20/86 6:00:00 + 16:53
SAMPLE: 1UL CC#85003 (5-13-06) CS# URS WEST EPA# G SEDIMENT
DATA: GH085003C15 #1121
ENHANCED (10B 2N 0T)
BASE M/E: 240
RIC: 40511.
1000
SAMPLE
405 BENZO(A)ANTHRACENE (QS#6) <56-55-3>
C18.H12
M WT 228
3 PK 228
RANK 1
IN 6
PUR 144
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
50
100
150
200
250
300
350
400

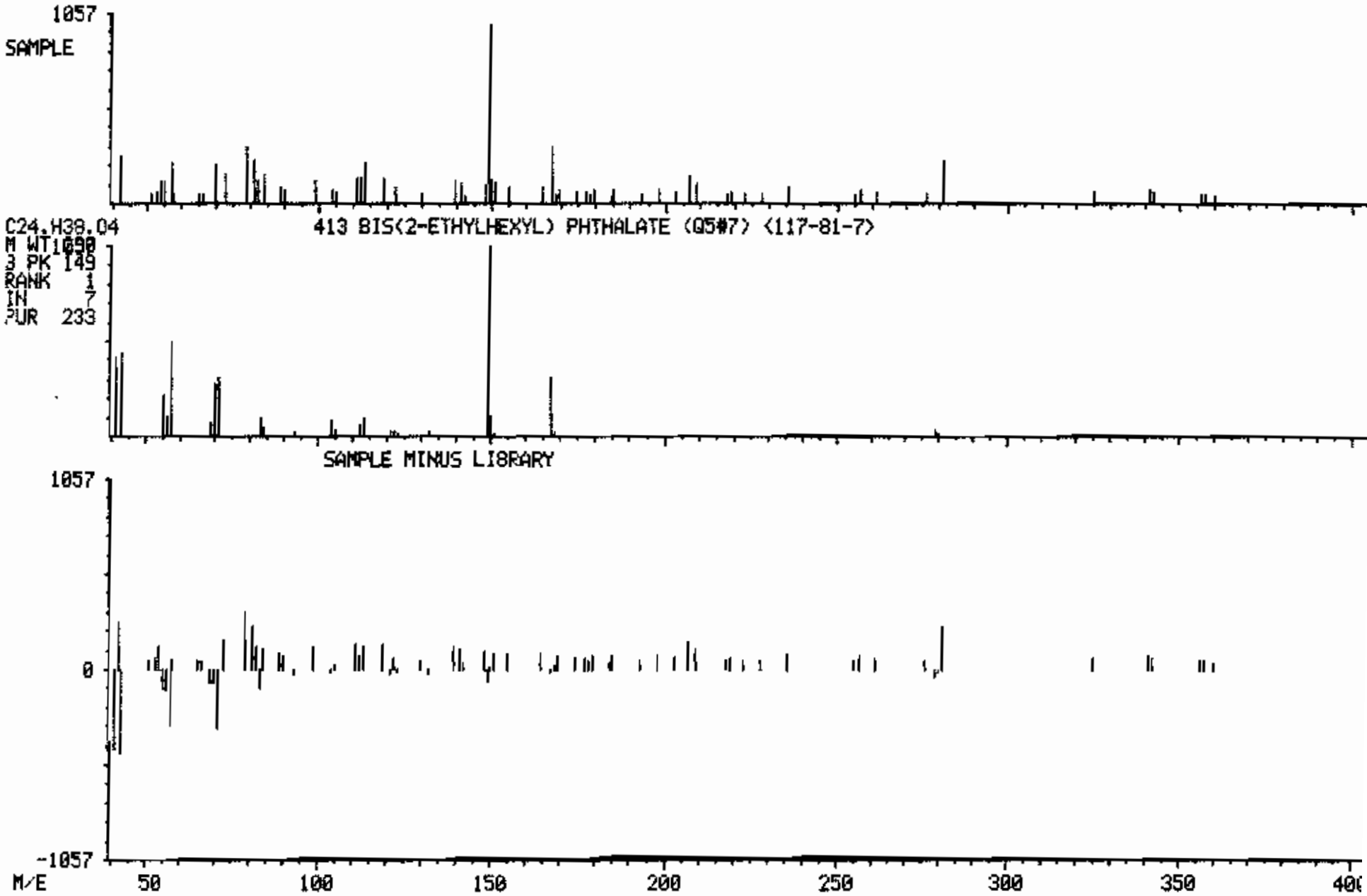

COMPUCHEM LABS
DUAL MASS SPECTRUM
05/20/86 6:00:00 + 16:53
DATA: GH085003C15 #1121 BASE M/E: 240/ 240
RIC: 41087./ 103295.
SAMPLE: 1UL CC#05003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
SECOND SPECTRUM
DATA: GH085003C15 #1121
405 BENZO(A)ANTHRACENE (Q5#6) (56-55-3)
95.4
47.7
18752
100.0
50.0
19648
M/E
50
100
150
200
250
300
95.4
47.7
18752
100.0
50.0
19648
M/E
350
400
450
500
550
600

COMPUCHEM LABS

LIBRARY SEARCH
05/20/86 6:00:00 + 17:01
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT

DATA: GH085003C15 #1130
ENHANCED (10B 2N 0T)

BASE M/E: 149
RIC: 13487.

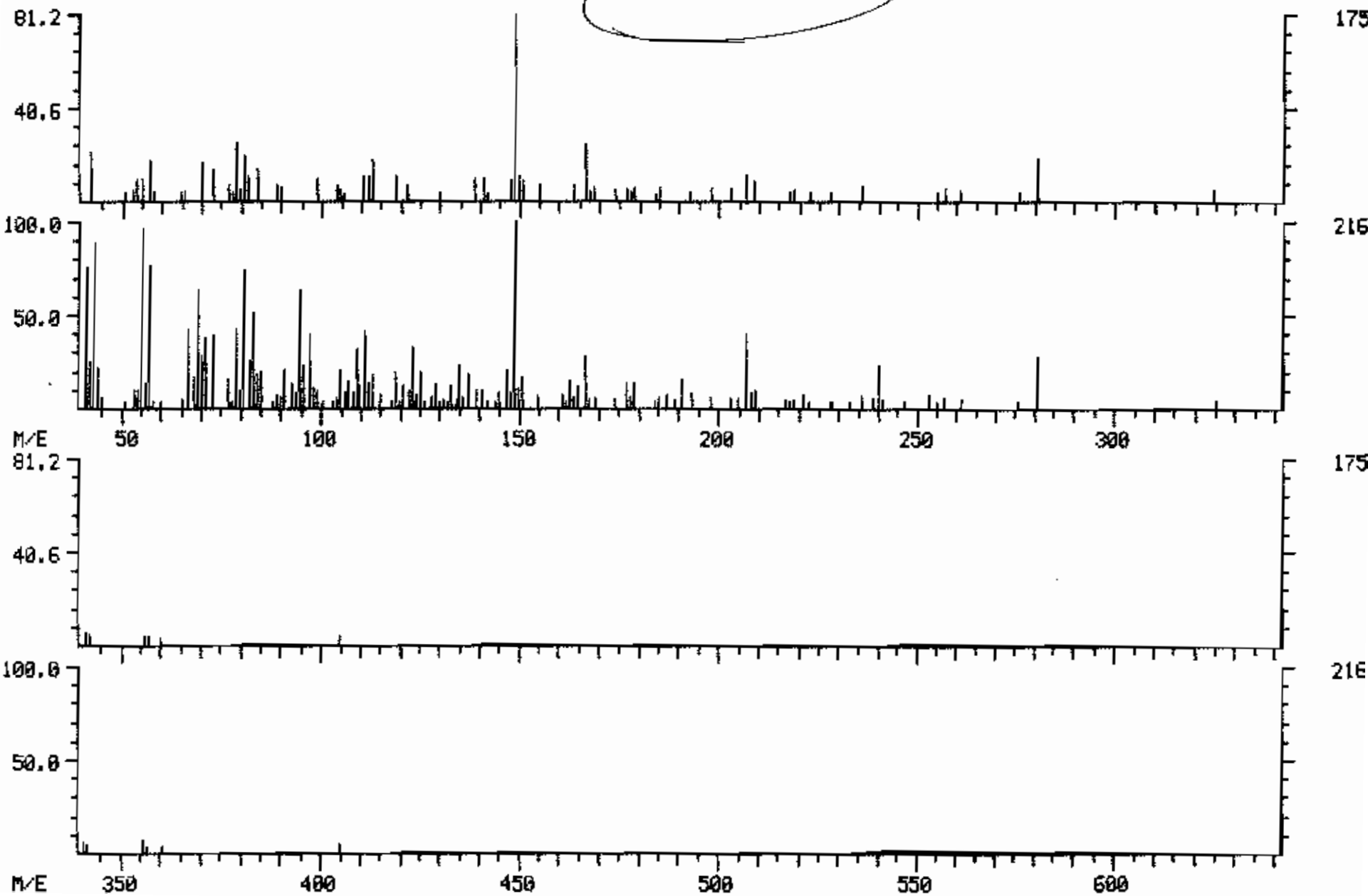


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/20/86 6:00:00 + 17:01
SAMPLE: 1UL CC#85003 (5-13-86) C5# URS WEST EPA# G SEDIMENT

DATA: GH085003C15 #1130 BASE M/E: 149/ 149
RIC: 13887./ 46975.

SECOND SPECTRUM DATA: GH085003C15 #1130 413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) (117-81-7)

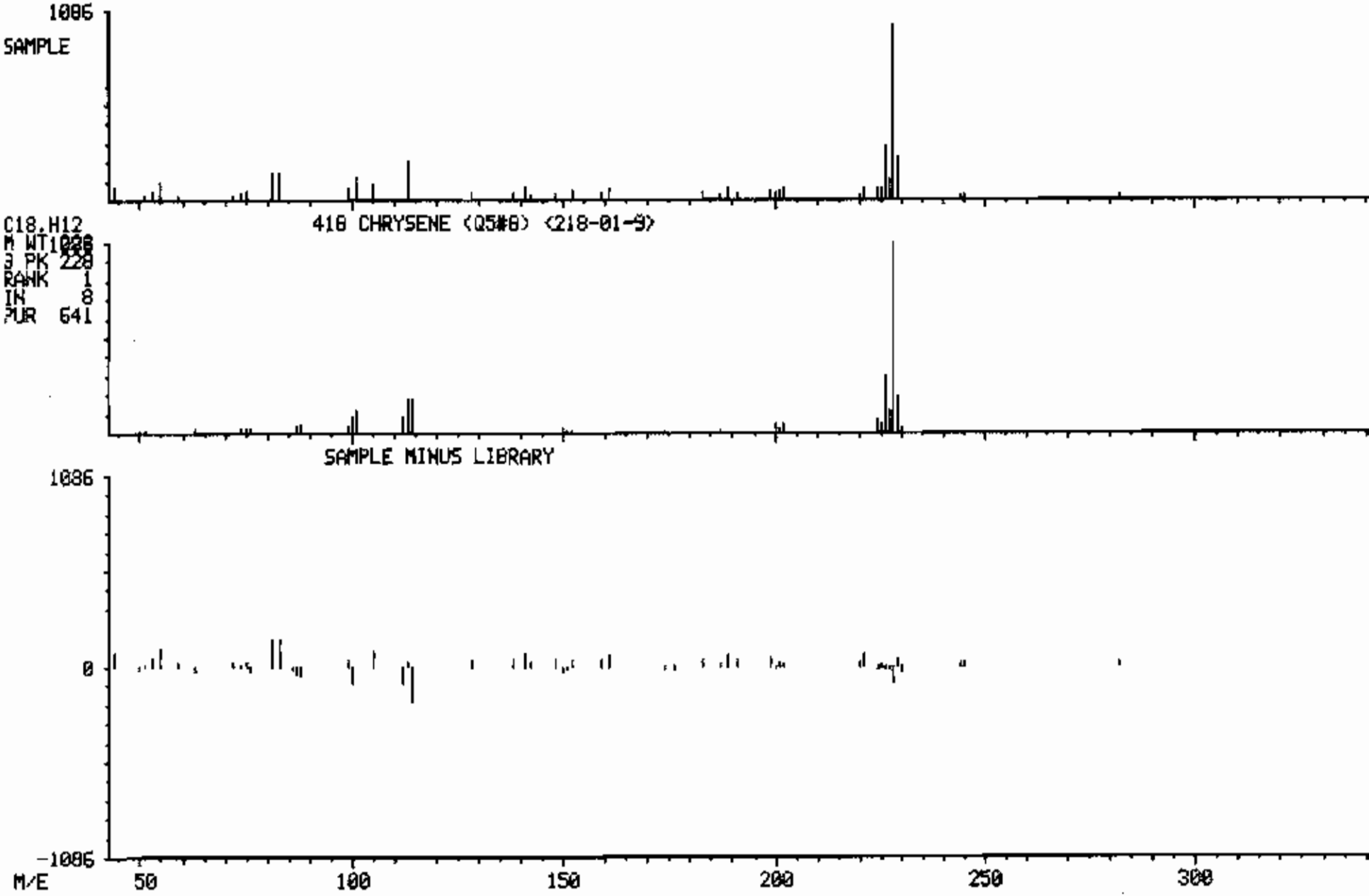


COMPUCHEM LABS

LIBRARY SEARCH
05/20/06 6:00:00 + 16:57
SAMPLE: 1UL CC#85003 (5-13-06) CS# URS WEST EPA# G SEDIMENT

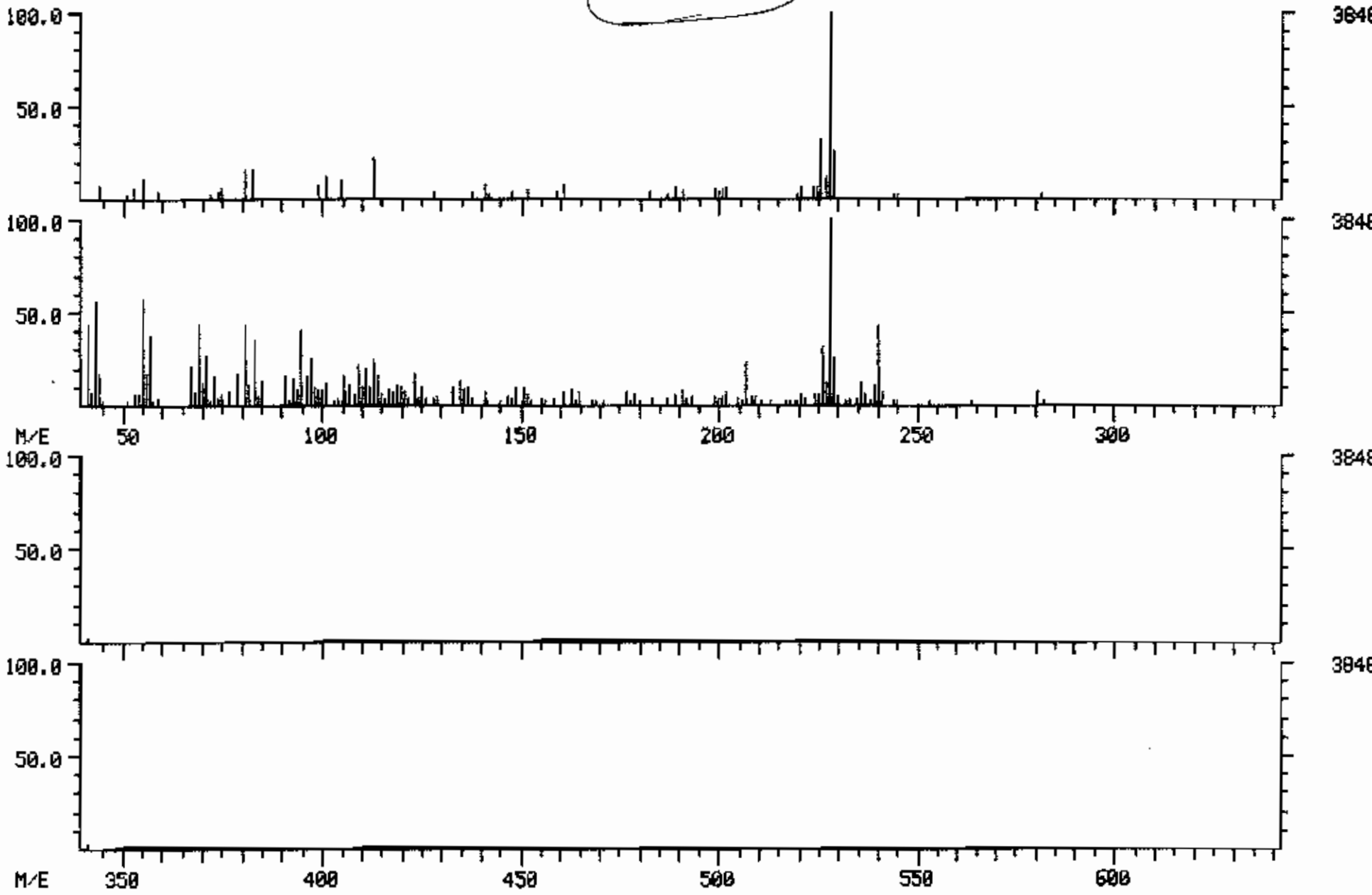
DATA: GH085003C15 #1125
ENHANCED (10B 2N 0T)

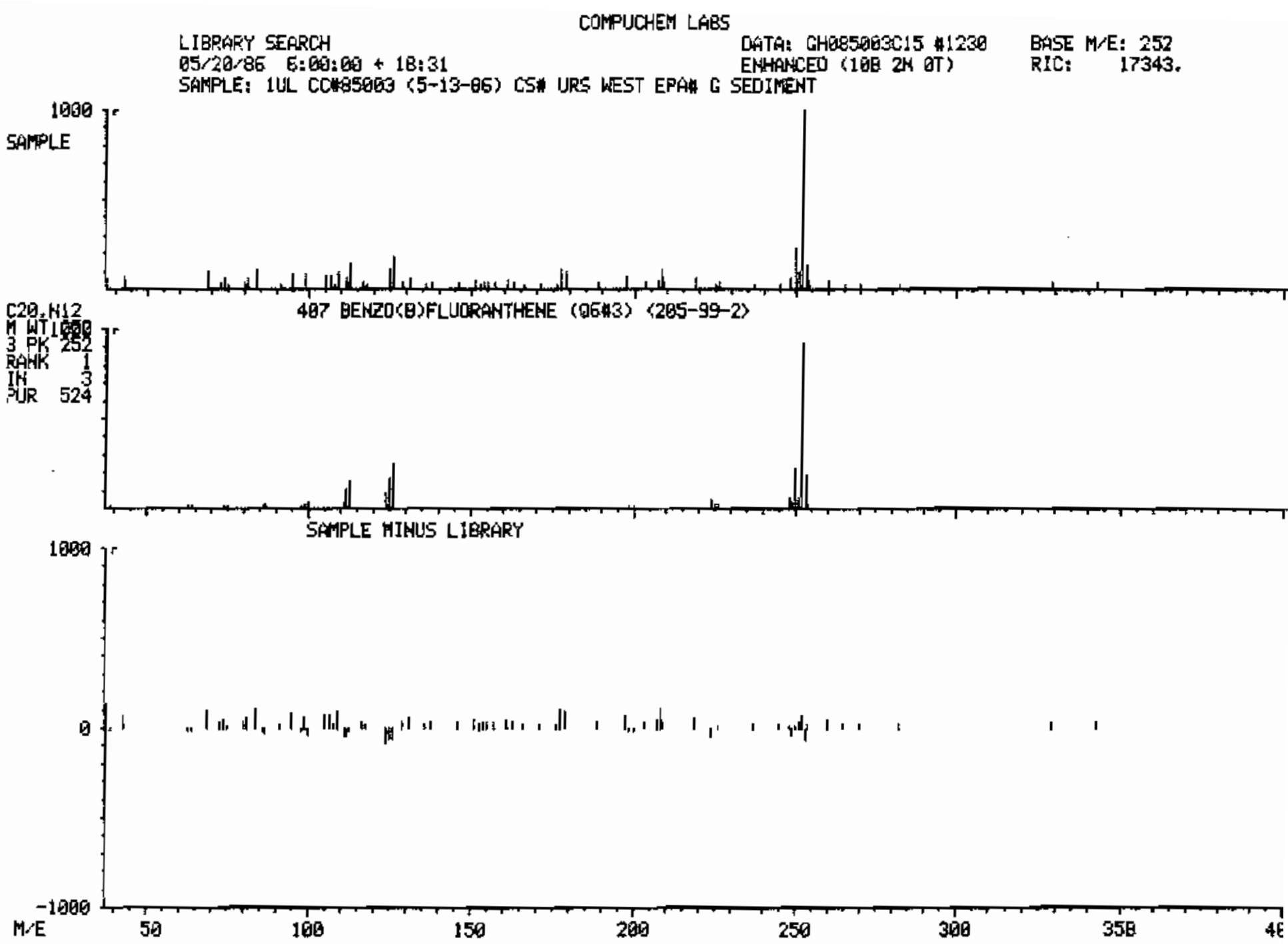
BASE M/E: 228
RIC: 15327.

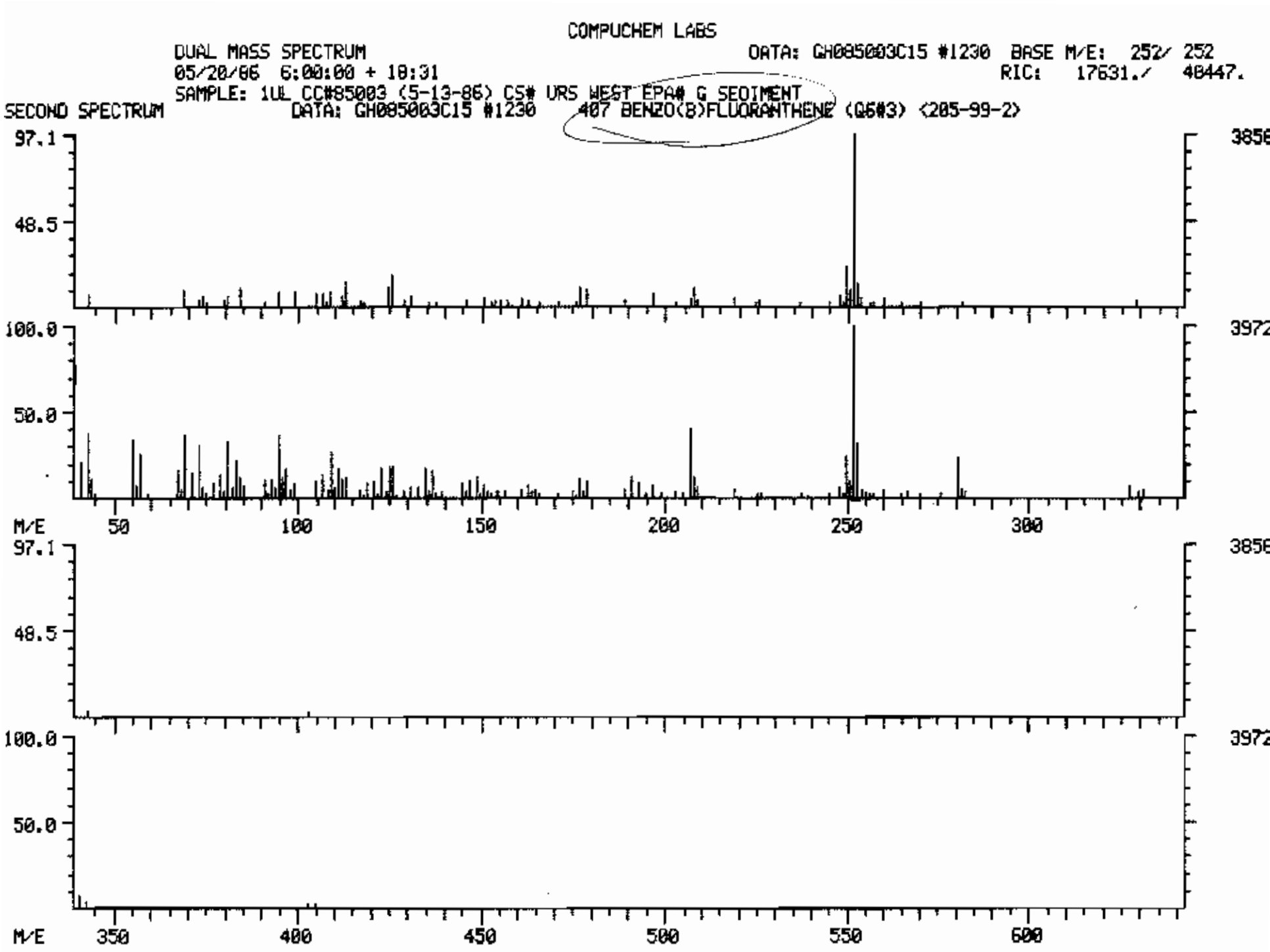


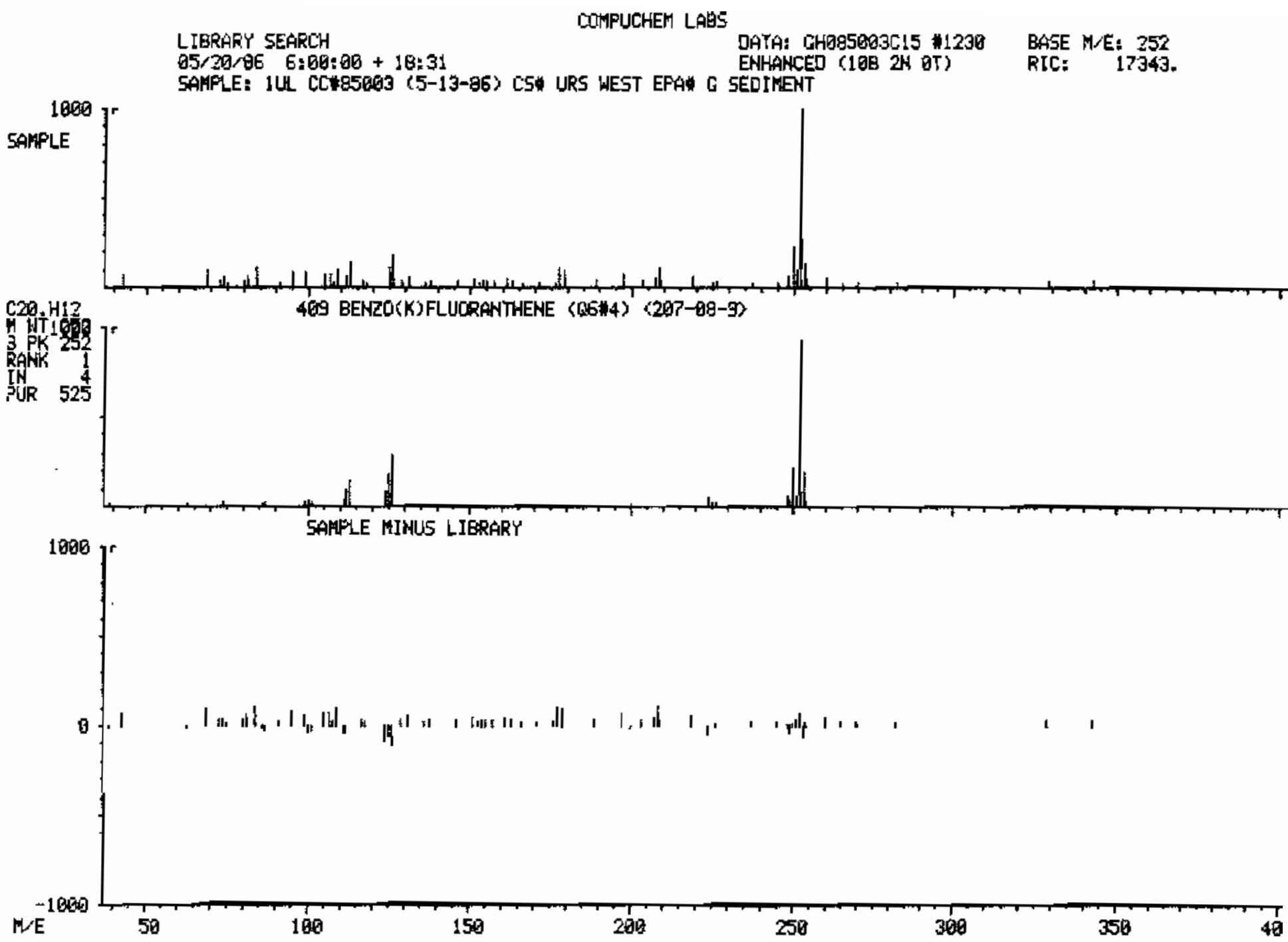
COMPUCHEM LABS

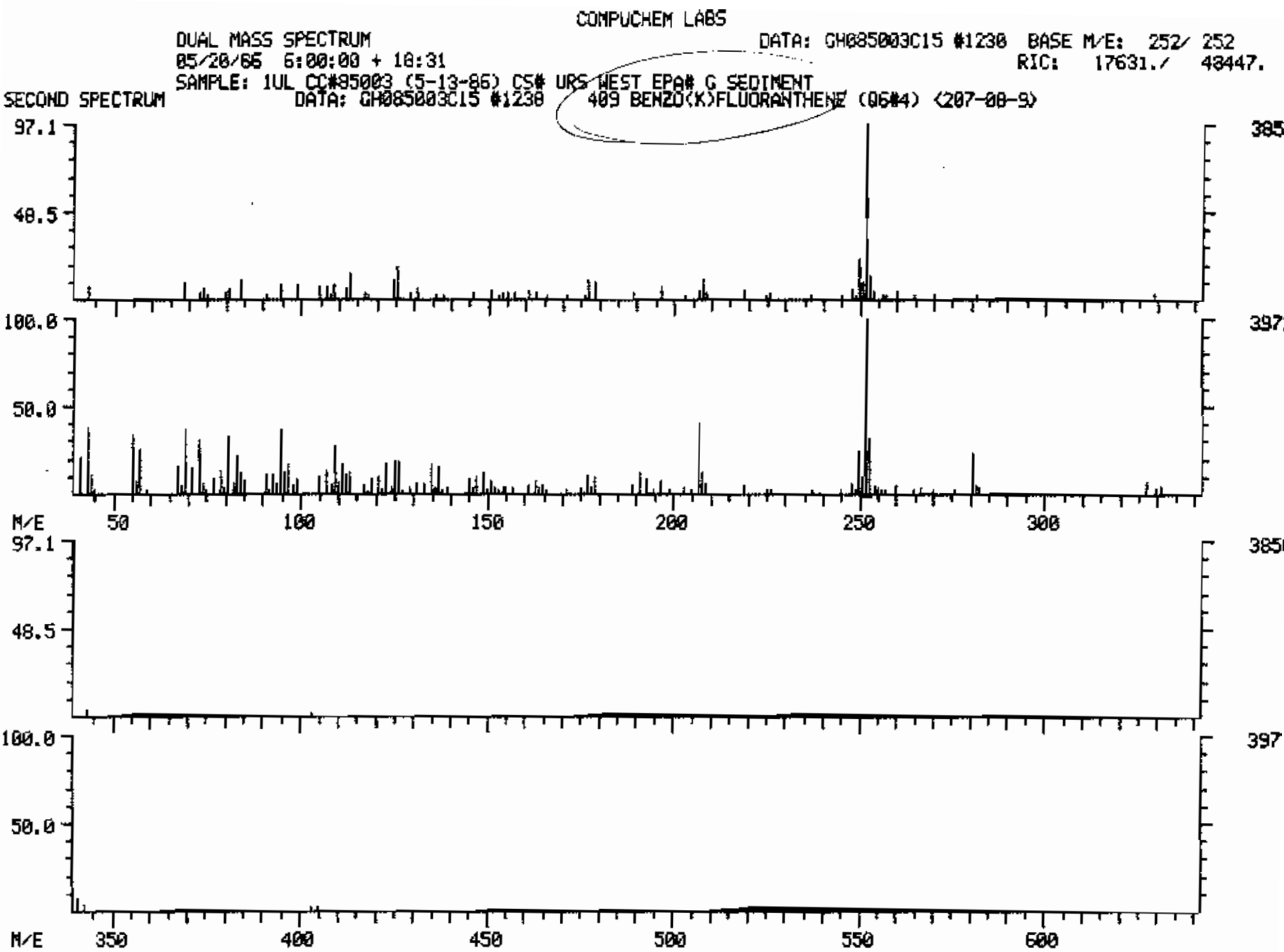
DUAL MASS SPECTRUM
05/20/86 6:00:00 + 16:57
DATA: GH085003C15 #1125 BASE M/E: 228/ 228
RIC: 15327./ 58175.
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
SECOND SPECTRUM DATA: GH085003C15 #1125 418 CHRYSENE (Q5#8) <218-01-9>

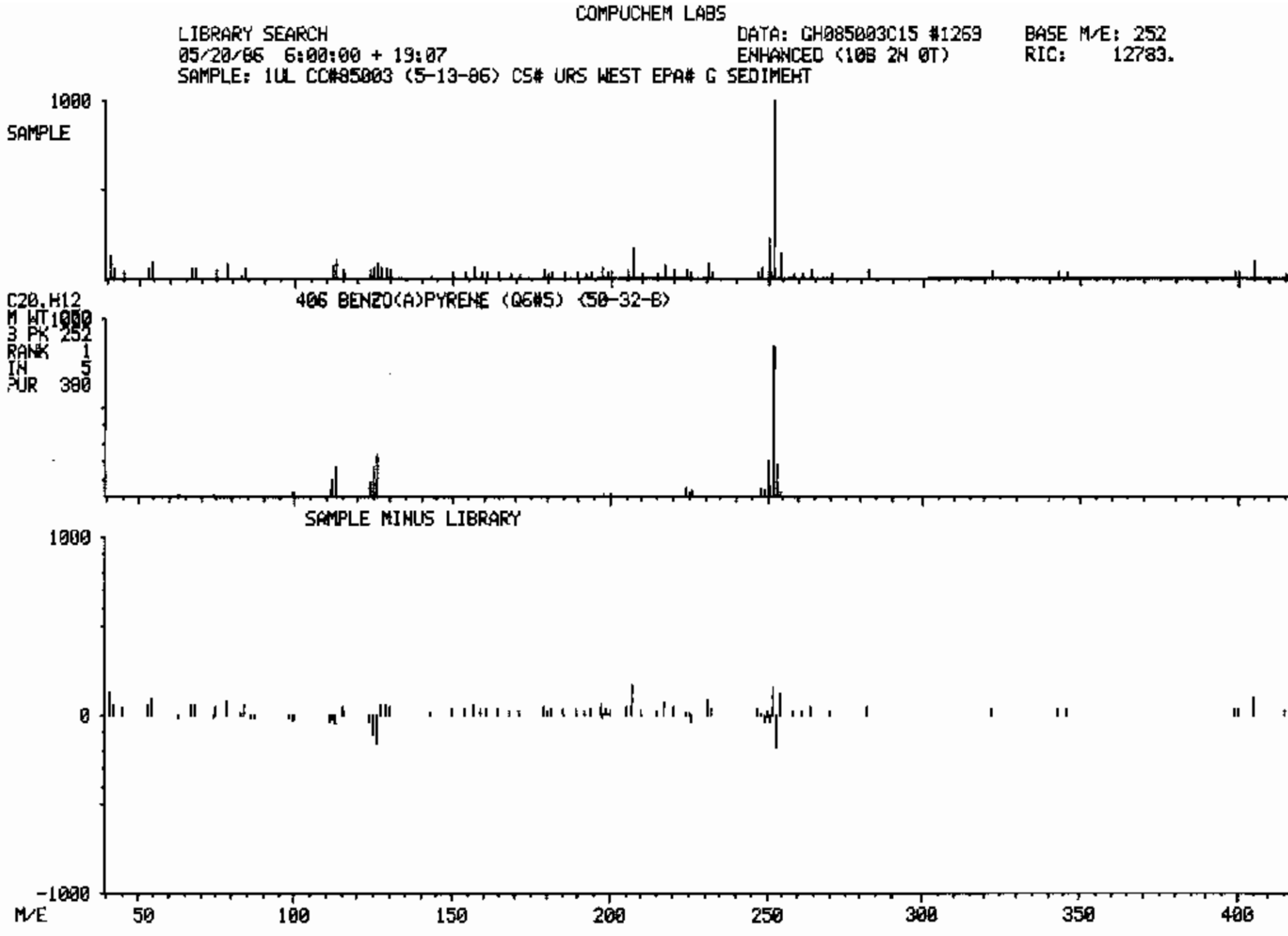



COMPUCHEM LABS
LIBRARY SEARCH
05/20/86 6:00:00 + 18:31
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
DATA: GH085003C15 #1230
ENHANCED (10B 2N 0T)
BASE M/E: 252
RIC: 17343.
1000
SAMPLE
C20,H12
M WT 252
3 PK 252
RANK 1
IN 3
PUR 524
407 BENZO(B)FLUORANTHENE (Q6#3) (205-99-2)
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
50
100
150
200
250
300
350


COMPUCHEM LABS
DUAL MASS SPECTRUM
05/20/86 6:00:00 + 18:31
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
DATA: GH085003C15 #1230 BASE M/E: 252/ 252
RIC: 17631./ 40447.
SECOND SPECTRUM
DATA: GH085003C15 #1230 407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
97.1
48.5
100.0
50.0
M/E
50
100
150
200
250
300
350
400
450
500
550
600


COMPUCHEM LABS
LIBRARY SEARCH
05/20/86 6:00:00 + 10:31
DATA: GH085003C15 #1230
ENHANCED (10B 2N 0T)
BASE M/E: 252
RIC: 17343.
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
1000
SAMPLE
409 BENZO(K)FLUORANTHENE (Q6#4) (207-08-9)
C20.H12
M WT 252
S PK 252
RANK 1
IN 4
PUR 525
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
50
100
150
200
250
300
350
400


COMPUCHEM LABS
DUAL MASS SPECTRUM
05/20/86 6:00:00 + 10:31
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
DATA: GH085003C15 #1230 BASE M/E: 252/ 252
RIC: 17631./ 48447.
SECOND SPECTRUM
DATA: GH085003C15 #1238
409 BENZO(K)FLUORANTHENE (06#4) (207-08-9)
97.1
48.5
100.0
50.0
M/E
50
100
150
200
250
300
350
400
450
500
550
600

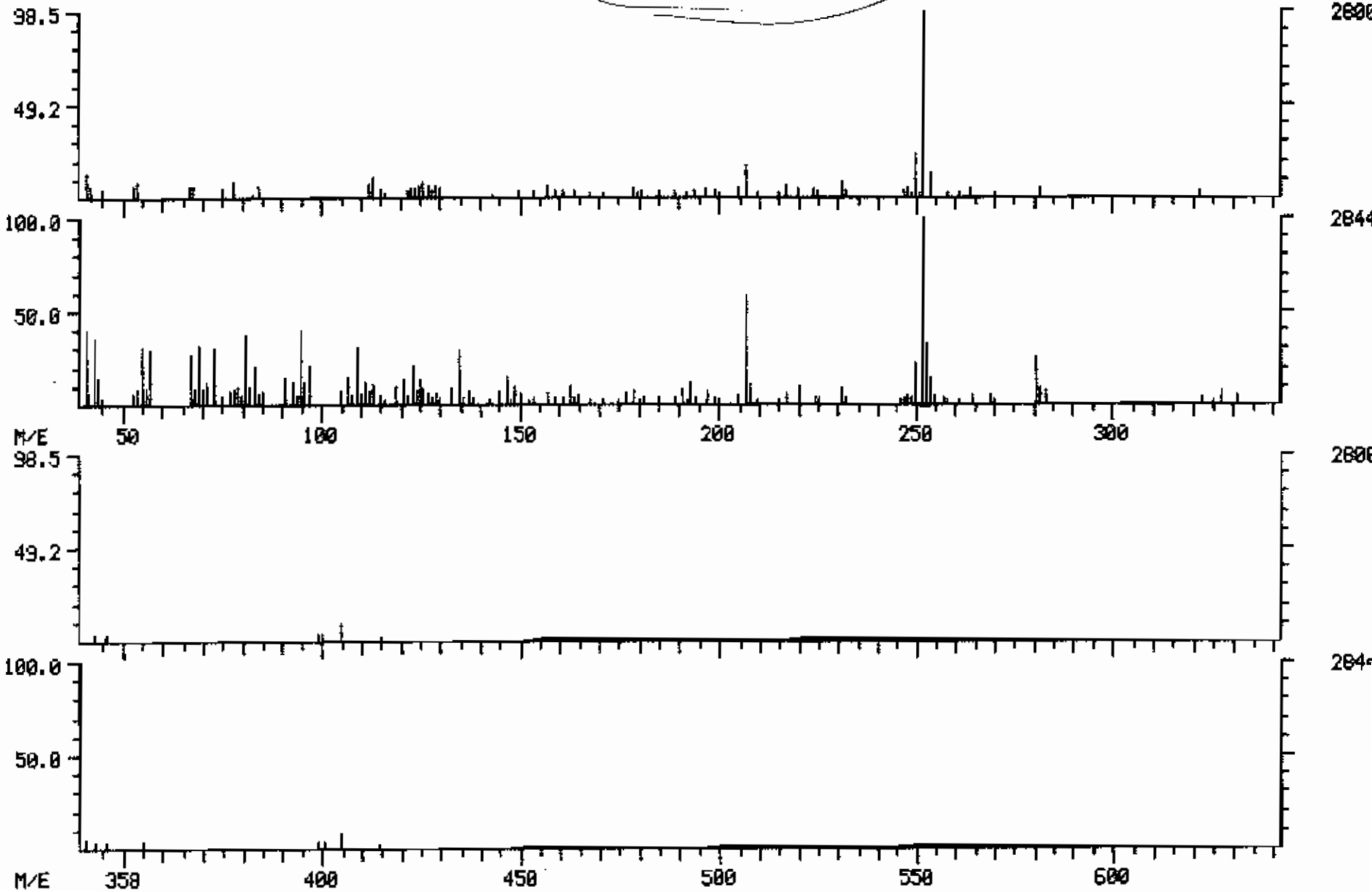

COMPUCHEM LABS
LIBRARY SEARCH
05/20/86 6:00:00 + 19:07
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
DATA: GH085003C15 #1269
ENHANCED (10B 2N 0T)
BASE M/E: 252
RIC: 12783.
1000
SAMPLE
C20.H12
M WT 252
3 PK 252
RANK 1
IN 5
PUR 300
406 BENZO(A)PYRENE (Q6#5) <50-32-8>
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
50
100
150
200
250
300
350
400

COMPUCHEM LABS

DUAL MASS SPECTRUM
05/20/06 6:00:00 + 19:07
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
DATA: GH085003C15 #1269 406 BENZO(A)PYRENE (Q6#5) (50-32-8)

DATA: GH085003C15 #1269 BASE M/E: 252/ 252
RIC: 13151./ 38703.

SECOND SPECTRUM

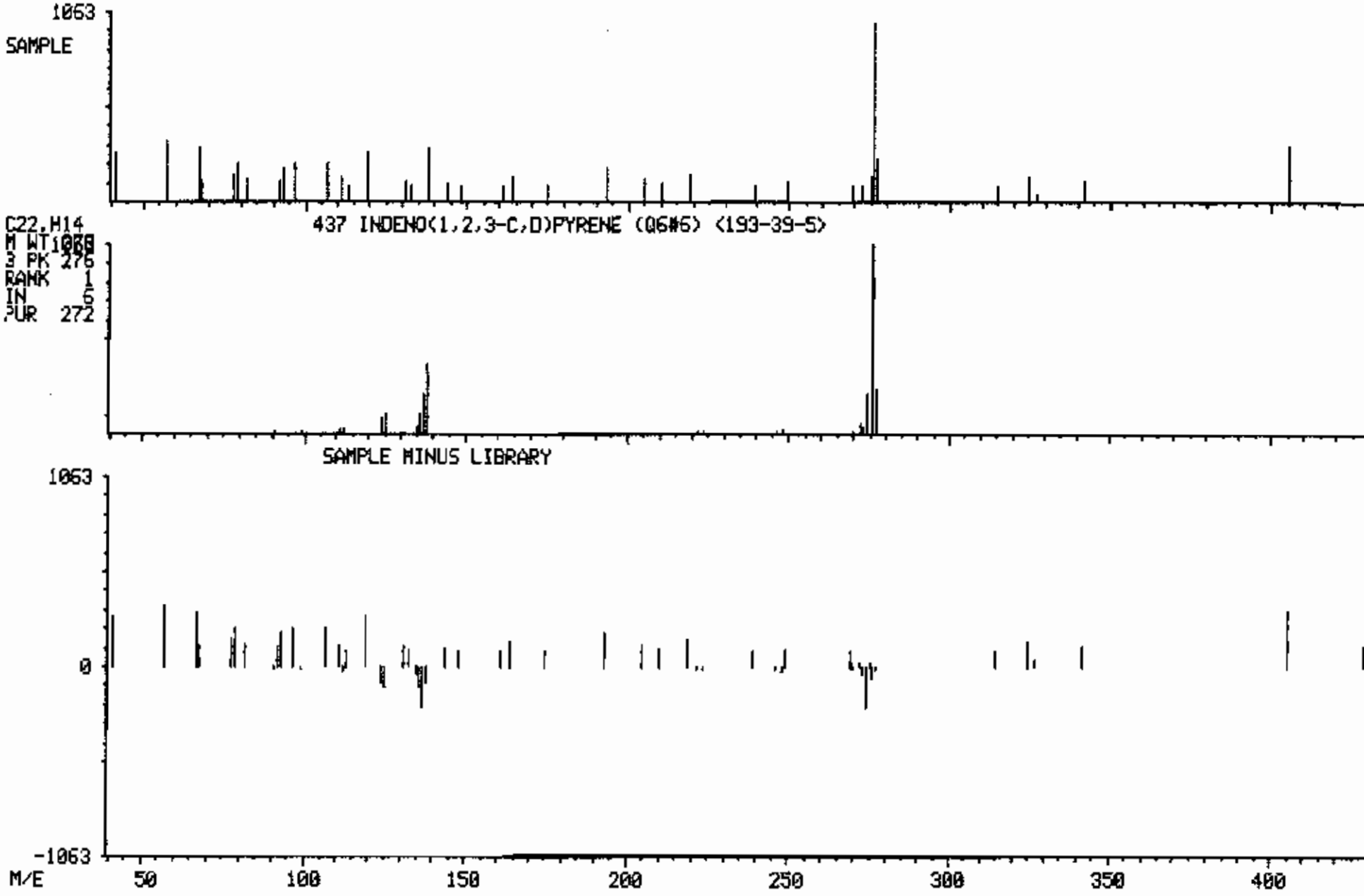


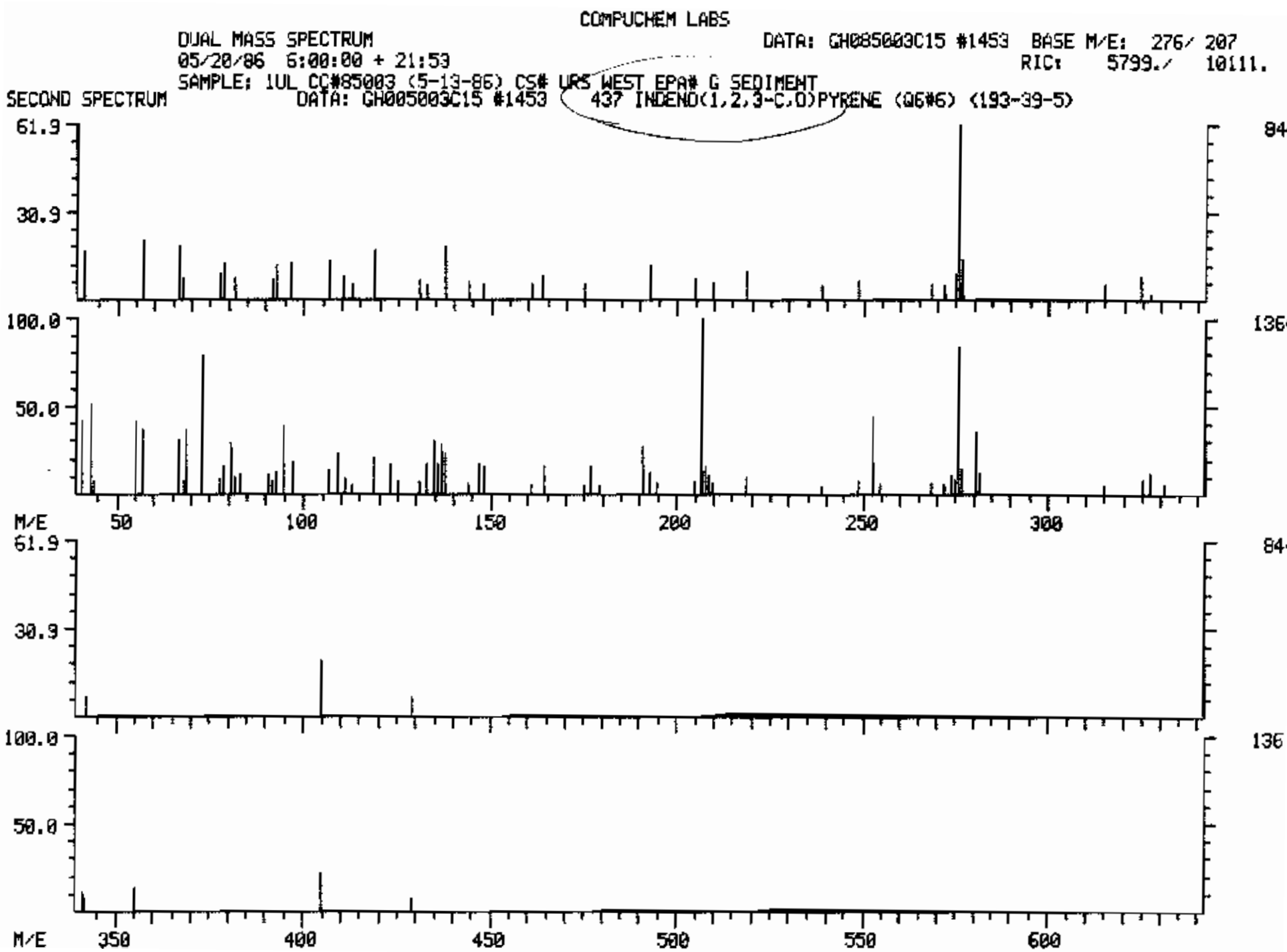
COMPUCHEM LABS

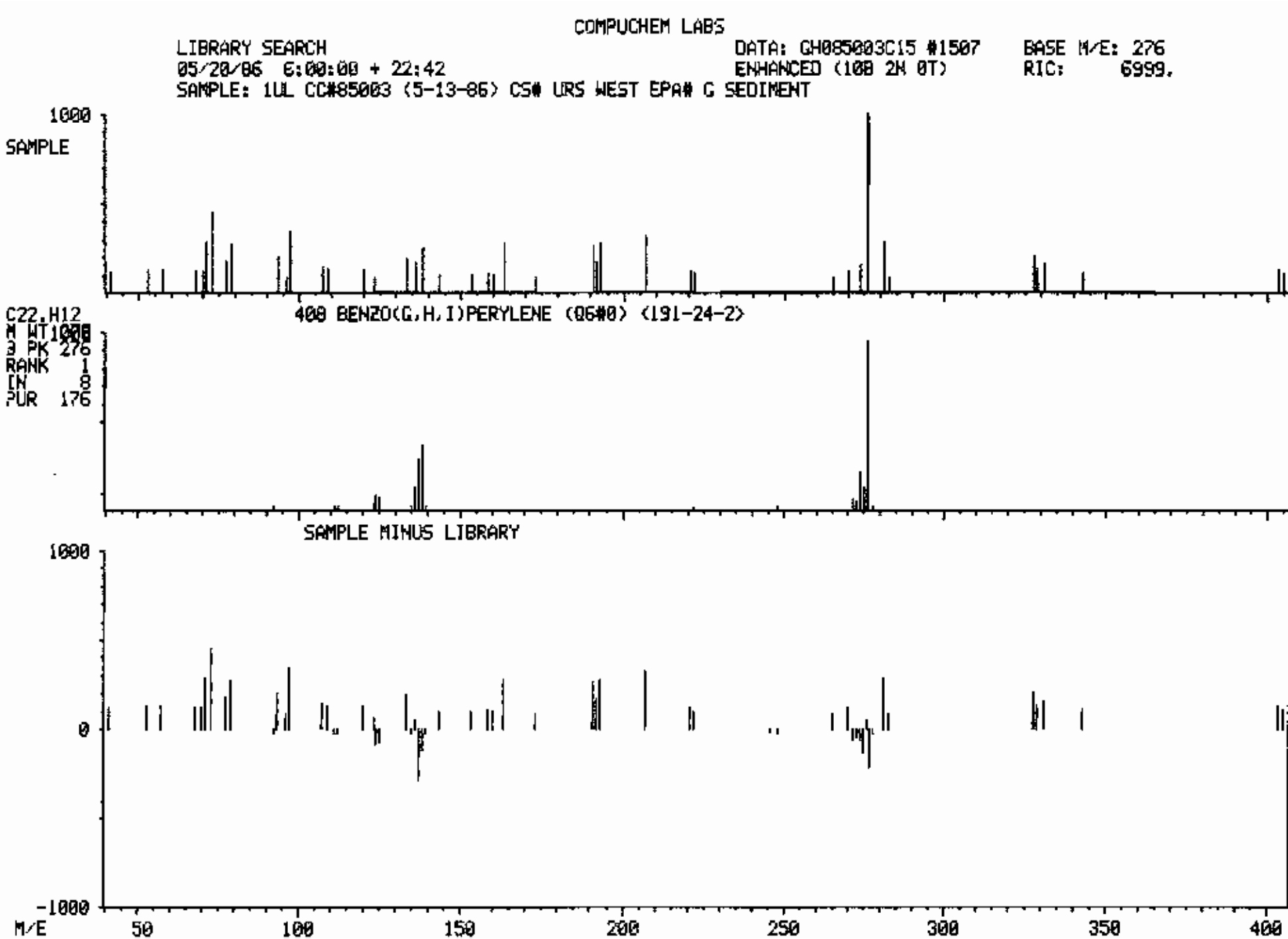
LIBRARY SEARCH
05/20/86 6:00:00 + 21:53
SAMPLE: 1UL CC#05003 (5-13-06) CS# URS WEST EPA# G SEDIMENT

DATA: GH0E5003C15 #1453
ENHANCED (10B 2N 0T)

BASE M/E: 276
RIC: 5799.




COMPUCHEM LABS
DUAL MASS SPECTRUM
05/20/86 6:00:00 + 21:53
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
DATA: GH085003C15 #1453 BASE M/E: 276/ 207
RIC: 5799./ 10111.
SECOND SPECTRUM
DATA: GH005003C15 #1453 437 INDENO(1,2,3-C,D)PYRENE (Q6#6) (193-39-5)
61.9
30.9
100.0
50.0
M/E
50
100
150
200
250
300
350
400
450
500
550
600

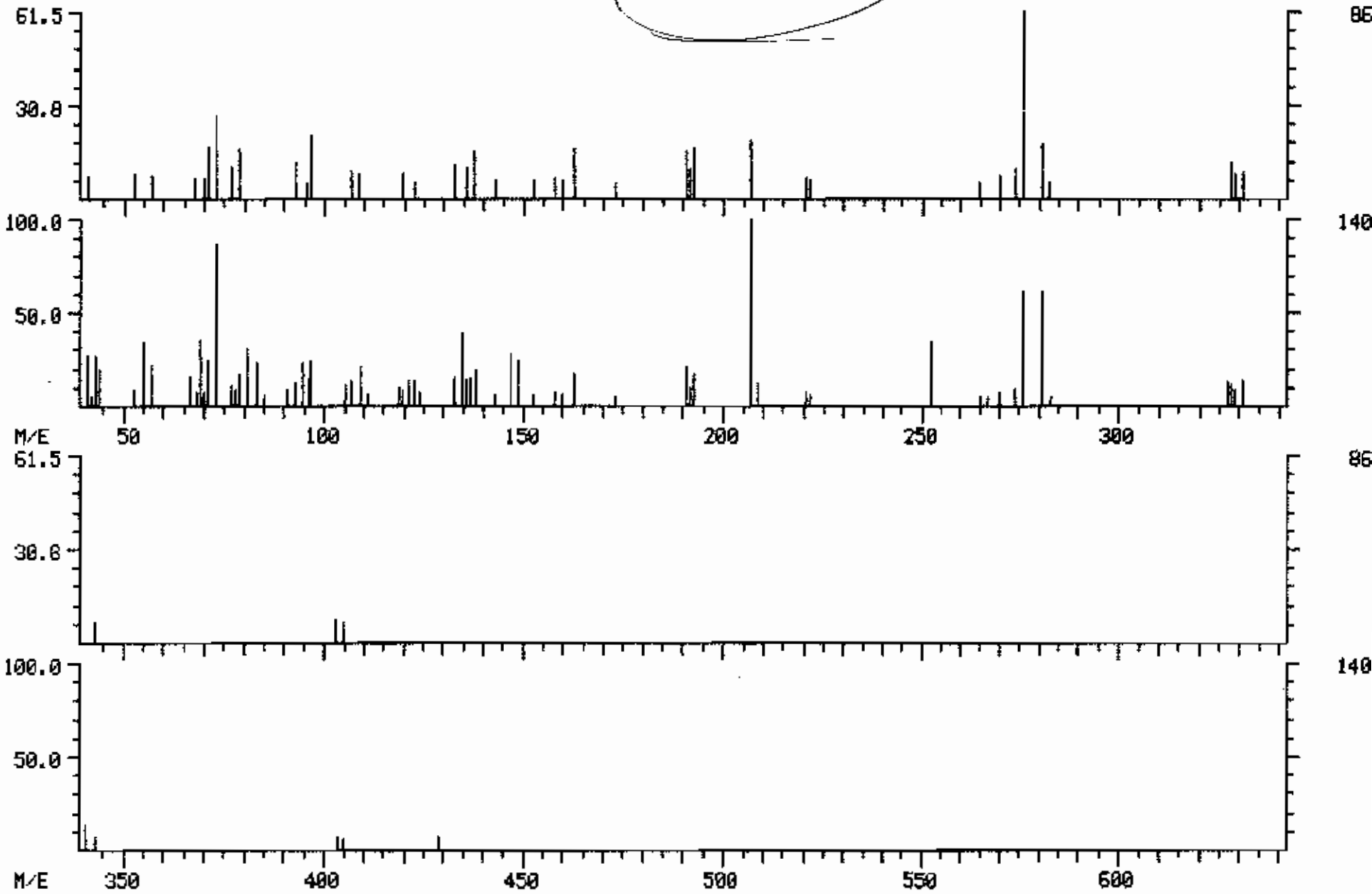

COMPUCHEM LABS
LIBRARY SEARCH
05/20/86 6:00:00 + 22:42
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# C SEDIMENT
DATA: GH085003C15 #1507
ENHANCED (10B 2N 0T)
BASE M/E: 276
RIC: 6999.
1000
SAMPLE
C22.H12
M WT 300
B PK 276
RANK 1
IN 8
PUR 176
400 BENZO(G,H,I)PERYLENE (Q6#0) (191-24-2)
SAMPLE MINUS LIBRARY
1000
0
-1000
M/E
50
100
150
200
250
300
350
400

COMPUCHEM LABS

DUAL MASS SPECTRUM
05/20/86 6:00:00 + 22:42
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT

DATA: GH085003C15 #1507 BASE M/E: 276/ 207
RIC: 6999./ 17753.

SECOND SPECTRUM DATA: GH085003C15 #1507 408 BENZO(G,H,I)PERYLENE (Q6#8) (191-24-2)



QUANTITATION REPORT FILE: STND

)ATA: GH085003C15.TI
)5/20/86 6:00:00
BAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# 0 SEDIMENT
CONDS.:
SUBMITTED BY: 15 ANALYST: 619

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	440	6:38	2	0.793	A VB	971562.	82.637	20.26
2	RIC	555	8:21	2	1.000	A BV	1175690.	100.000	24.51
3	RIC	724	10:54	2	1.305	A BV	919555.	78.213	19.17
4	RIC	866	13:03	2	1.560	A VB	704074.	59.886	14.68
5	RIC	1122	16:54	2	2.022	A VB	557139.	47.388	11.62
6	RIC	1278	19:15	2	2.303	A BB	468104.	39.815	9.76

QUANTITATION REPORT FILE: UNKNOWN

\TA: 0H085003C15.TI
05/20/86 6:00:00
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# @ SEDIMENT
CONDS.:
SUBMITTED BY: 15 ANALYST: 619

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	309	4:39	1	1.000	A BB	1938670.	100.000	29.85
2	RIC	730	11:00	1	2.362	A VV	801127.	41.323	12.34
3	RIC	922	13:53	1	2.984	A VV	228128.	11.767	3.51
4	RIC	971	14:37	1	3.142	A BV	230880.	11.909	3.56
5	RIC	976	14:42	1	3.159	A VV	133760.	6.900	2.06
6	RIC	1013	15:15	1	3.278	A VV	59840.	3.087	0.92
7	RIC	1046	15:45	1	3.385	A VV	144384.	7.448	2.22
8	RIC	1110	16:43	1	3.592	A VV	351431.	18.127	5.41
9	RIC	1142	17:12	1	3.696	A BV	69376.	3.579	1.07
10	RIC	1172	17:39	1	3.793	A VV	655616.	33.818	10.10
11	RIC	1178	17:44	1	3.812	A VV	127552.	6.579	1.96
12	RIC	1196	18:01	1	3.871	A BV	131648.	6.791	2.03
13	RIC	1205	18:09	1	3.900	A VV	88768.	4.579	1.37
14	RIC	1221	18:23	1	3.951	A BB	190144.	9.808	2.93
15	RIC	1244	18:44	1	4.026	A BV	772352.	39.839	11.89
16	RIC	1254	18:53	1	4.058	A VB	80064.	4.130	1.23
17	RIC	1263	19:01	1	4.087	A BB	46272.	2.387	0.71
18	RIC	1313	19:46	1	4.249	A BB	75424.	3.890	1.16
19	RIC	1344	20:14	1	4.350	A BV	90379.	4.662	1.39
20	RIC	1348	20:18	1	4.362	A VB	69429.	3.581	1.07
21	RIC	1370	20:30	1	4.434	A BB	64592.	3.332	0.99
22	RIC	1385	20:51	1	4.482	A BB	49344.	2.545	0.76
23	RIC	1396	21:01	1	4.518	A BV	94980.	4.899	1.46

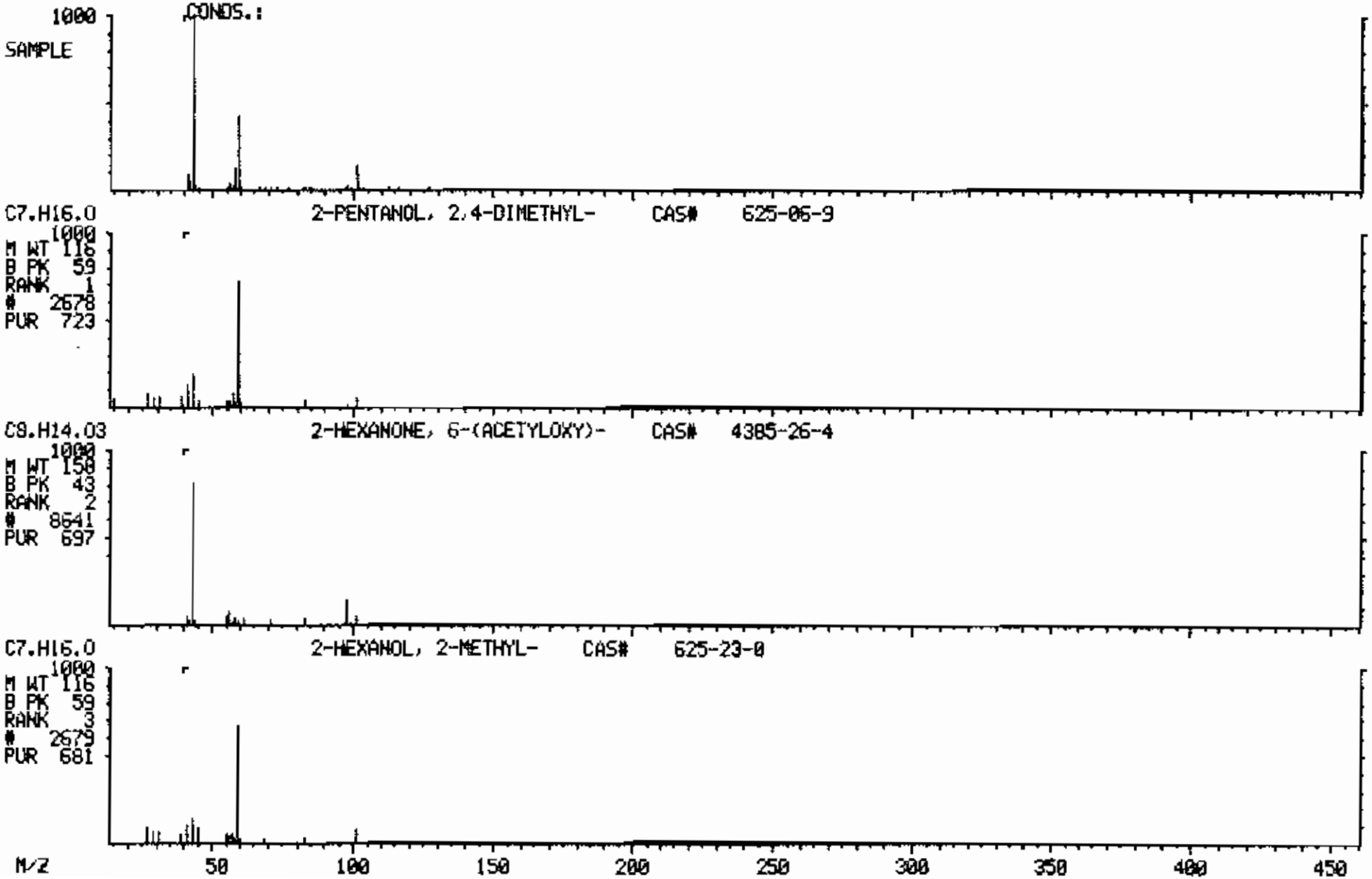
BNA 1

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:00:00 + 4:39
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:

DATA: GH085003C15 # 309
ENHAHCED (10B 2N 0T)

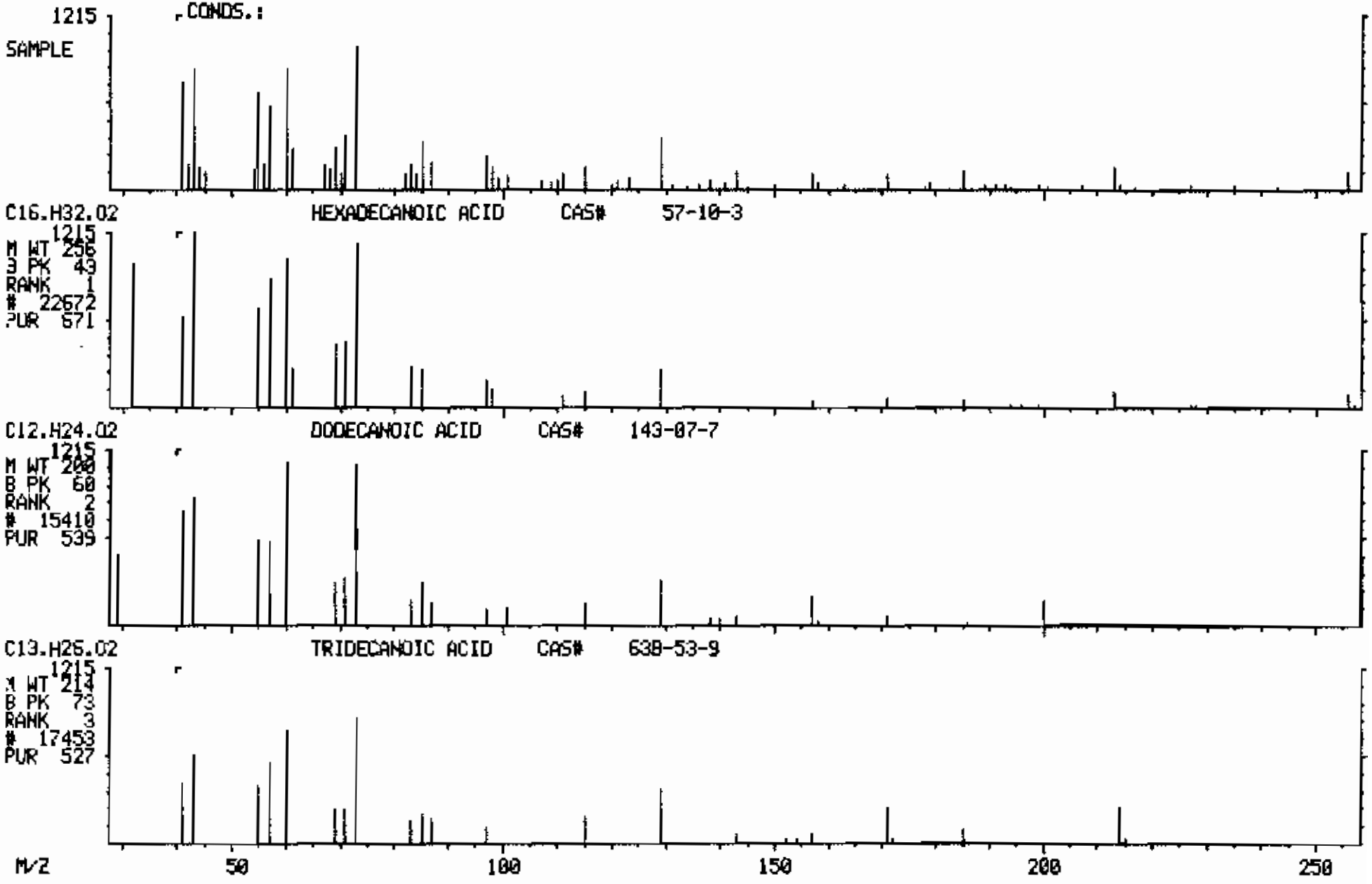
BASE M/Z: 43
RIC: 1001340.



BNA2

COMPUCHEM LABS

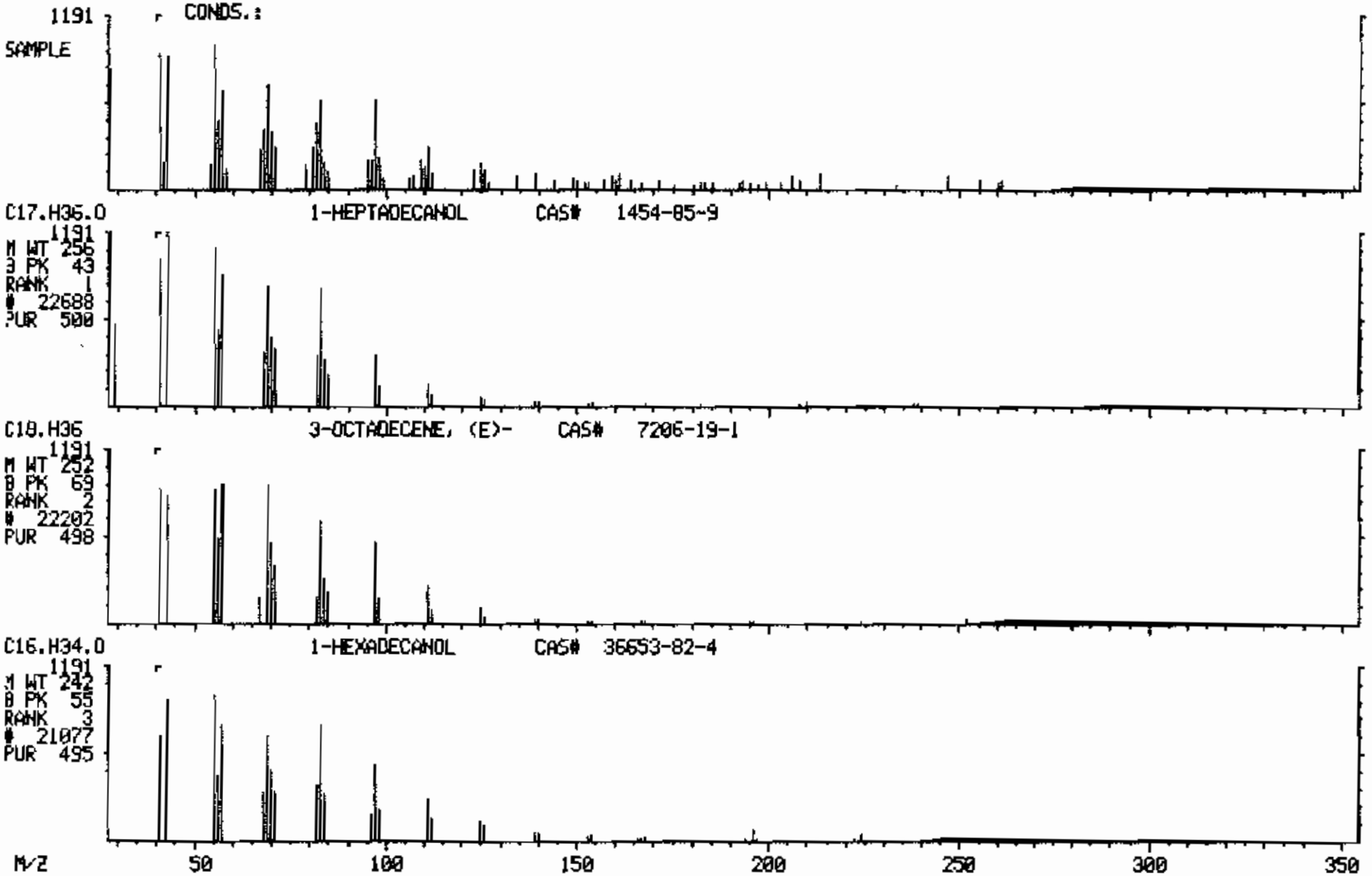
MID LIBRARY SEARCH
05/20/86 6:00:00 + 13:53
DATA: GH085003C15 # 922 BASE M/Z: 73
ENHANCED (10B 2H 0T) PIC: 46079.
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:



BNA3

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:00:00 + 14:37
DATA: GM085003C15 # 971
ENHANCED (10B 2N 0T)
BASE M/Z: 55
RIC: 35391.
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:



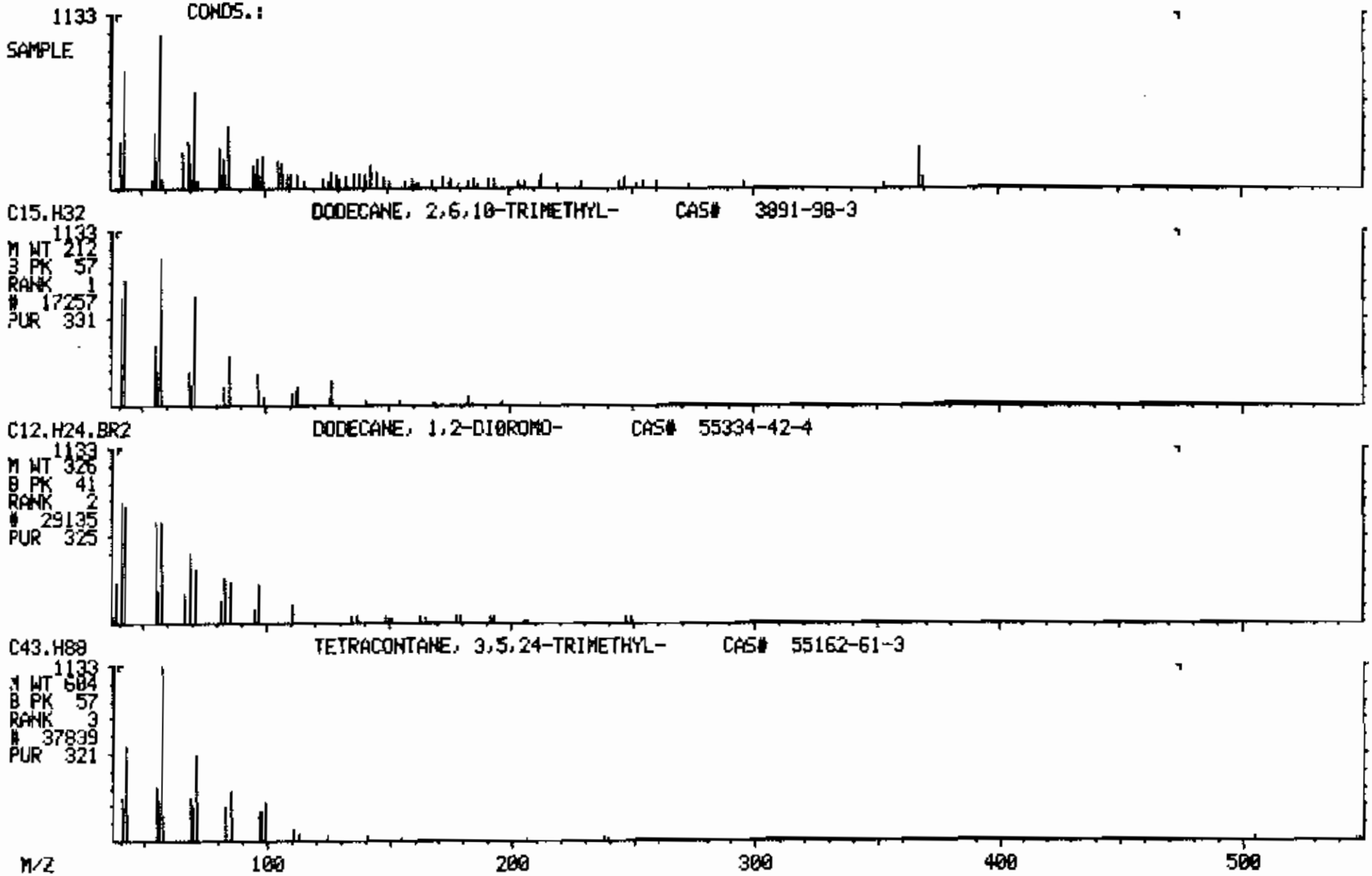
BNA4

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:00:00 + 14:42
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:

DATA: GH085003C15 # 976
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 32831.



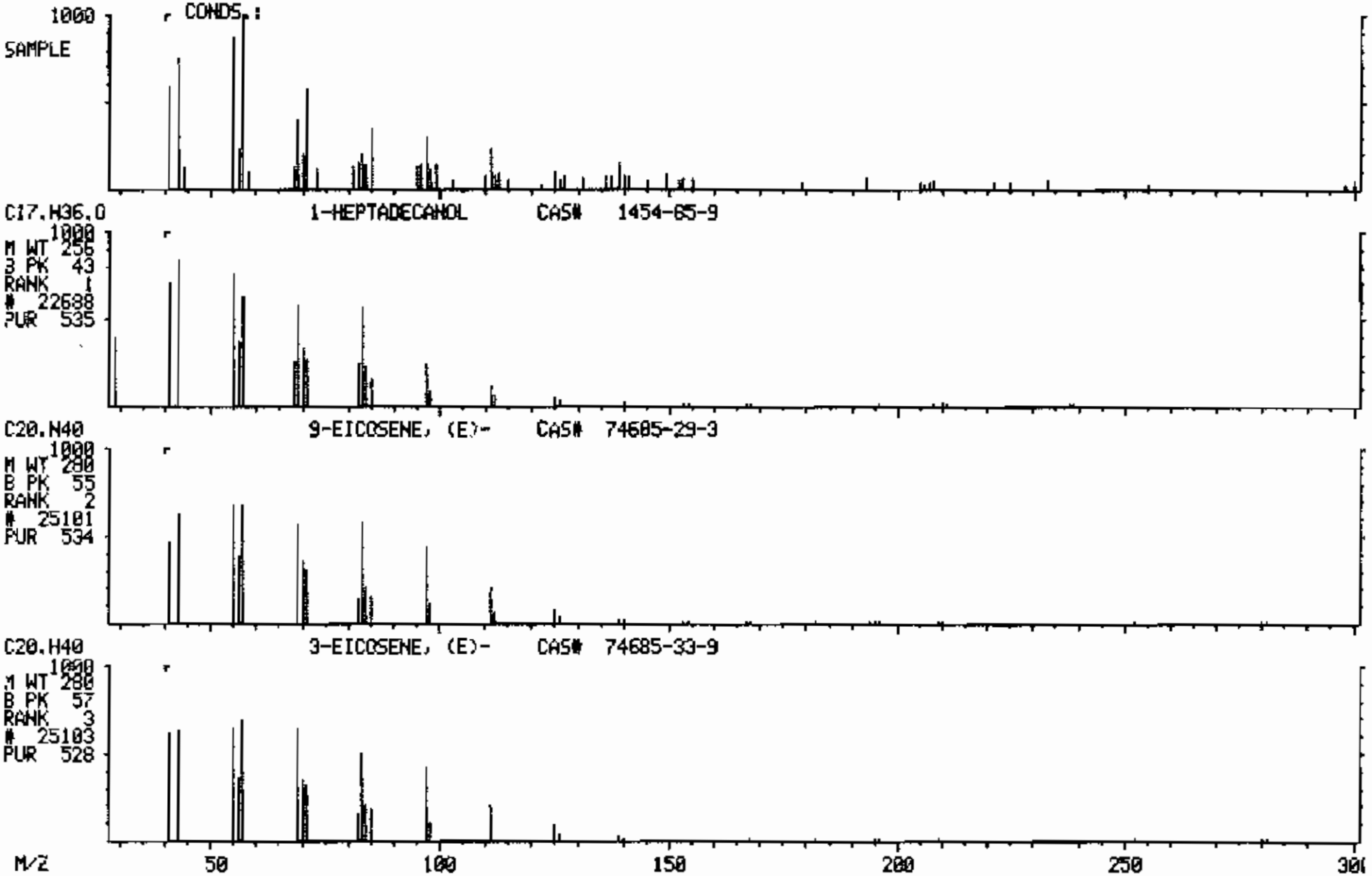
BNA5

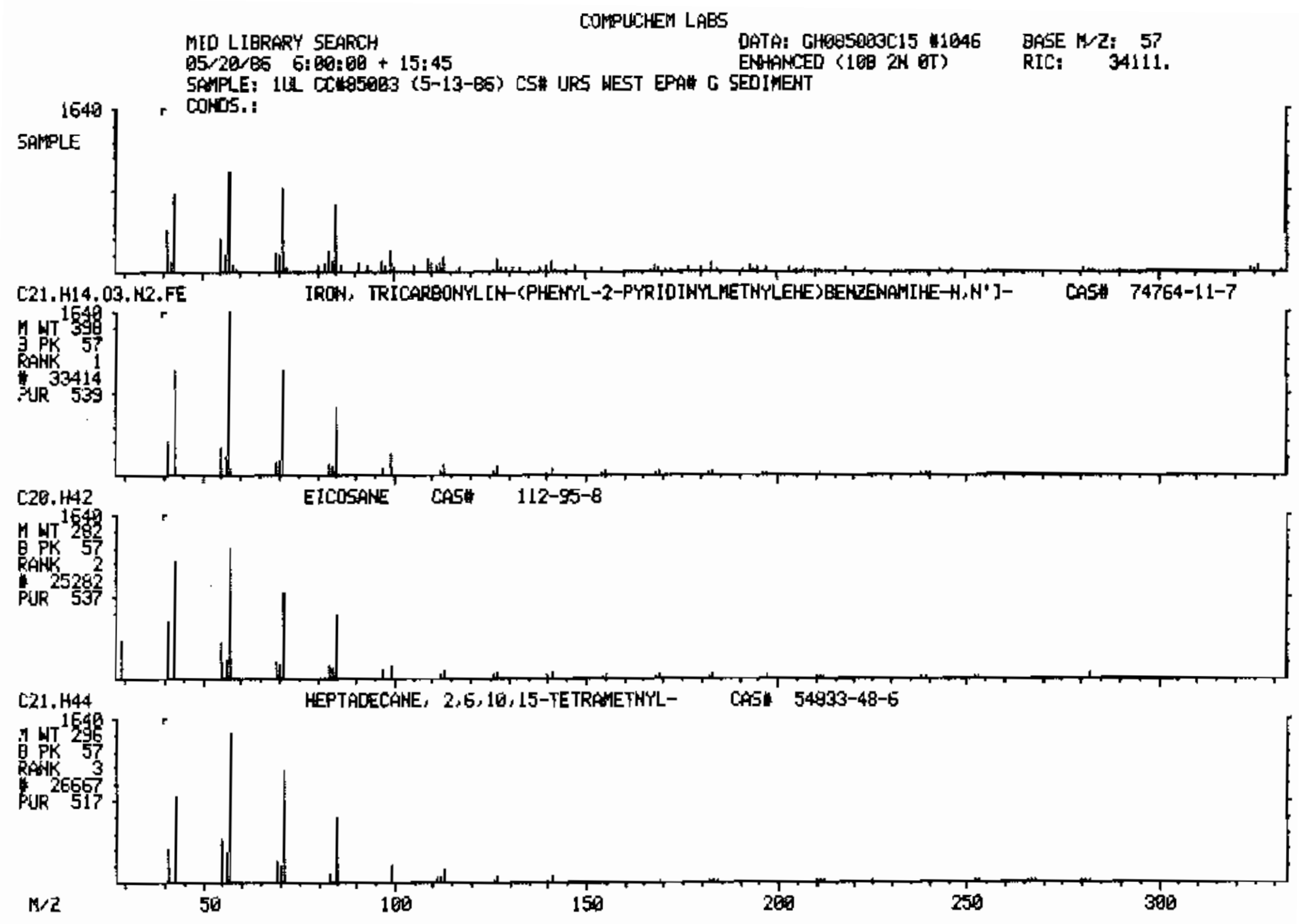
COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:00:00 + 15:15
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:

DATA: GH085003C15 #1013
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 26879.




COMPUCHEM LABS
MID LIBRARY SEARCH
05/20/86 6:00:00 + 15:45
DATA: GH085003C15 #1046
ENHANCED (10B 2N 0T)
BASE M/Z: 57
RIC: 34111.
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:
1640
SAMPLE
C21.H14.03.N2.FE
IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLMETHYLENE)BENZENAMINE-N,N']-
CAS# 74764-11-7
1640
M WT 398
B PK 57
RANK 1
33414
PUR 539
C20.H42
EICOSANE
CAS# 112-95-8
1640
M WT 282
B PK 57
RANK 2
25282
PUR 537
C21.H44
HEPTADECANE, 2,6,10,15-TETRAMETHYL-
CAS# 54833-48-6
1640
M WT 296
B PK 57
RANK 3
26667
PUR 517
M/Z
50
100
150
200
250
300

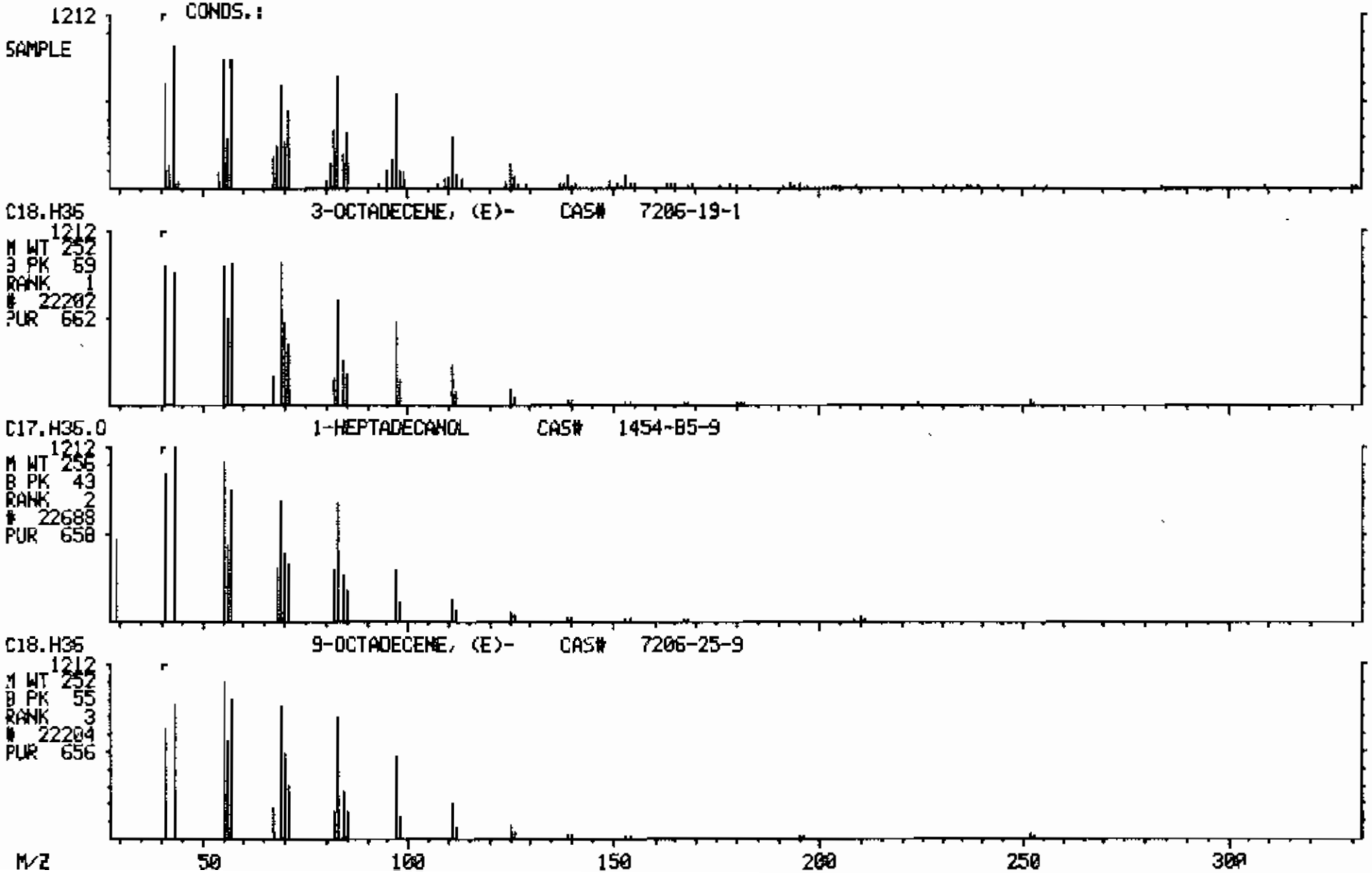
BNA 7

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 5:00:00 + 15:43
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:

DATA: GH085003C15 #1110
ENHANCED (10B 2N 0T)

BASE M/Z: 43
RIC: 110207.

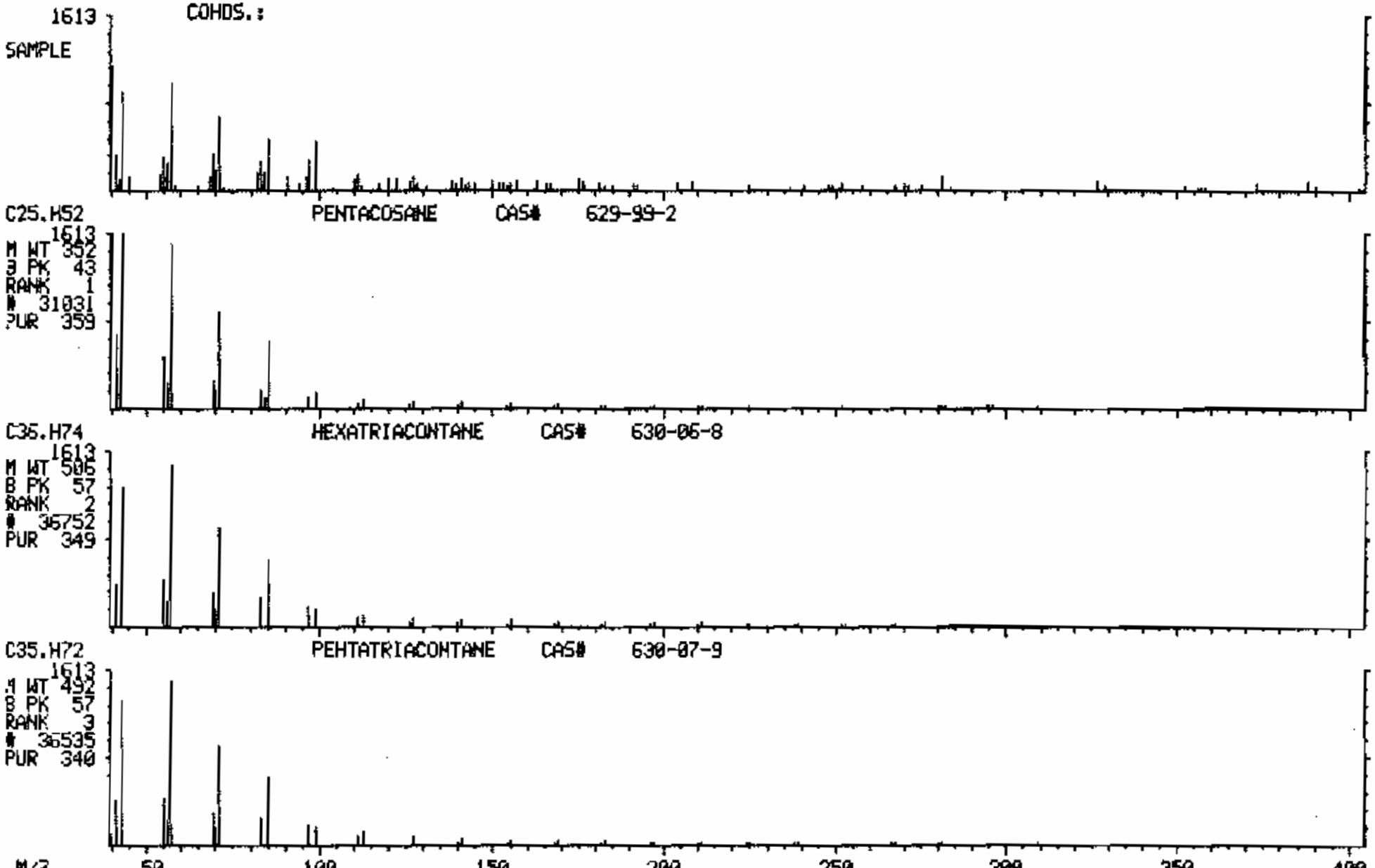


COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:00:00 + 17:12
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
COMDS.:

DATA: GH085003C15 #1142
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 28287.

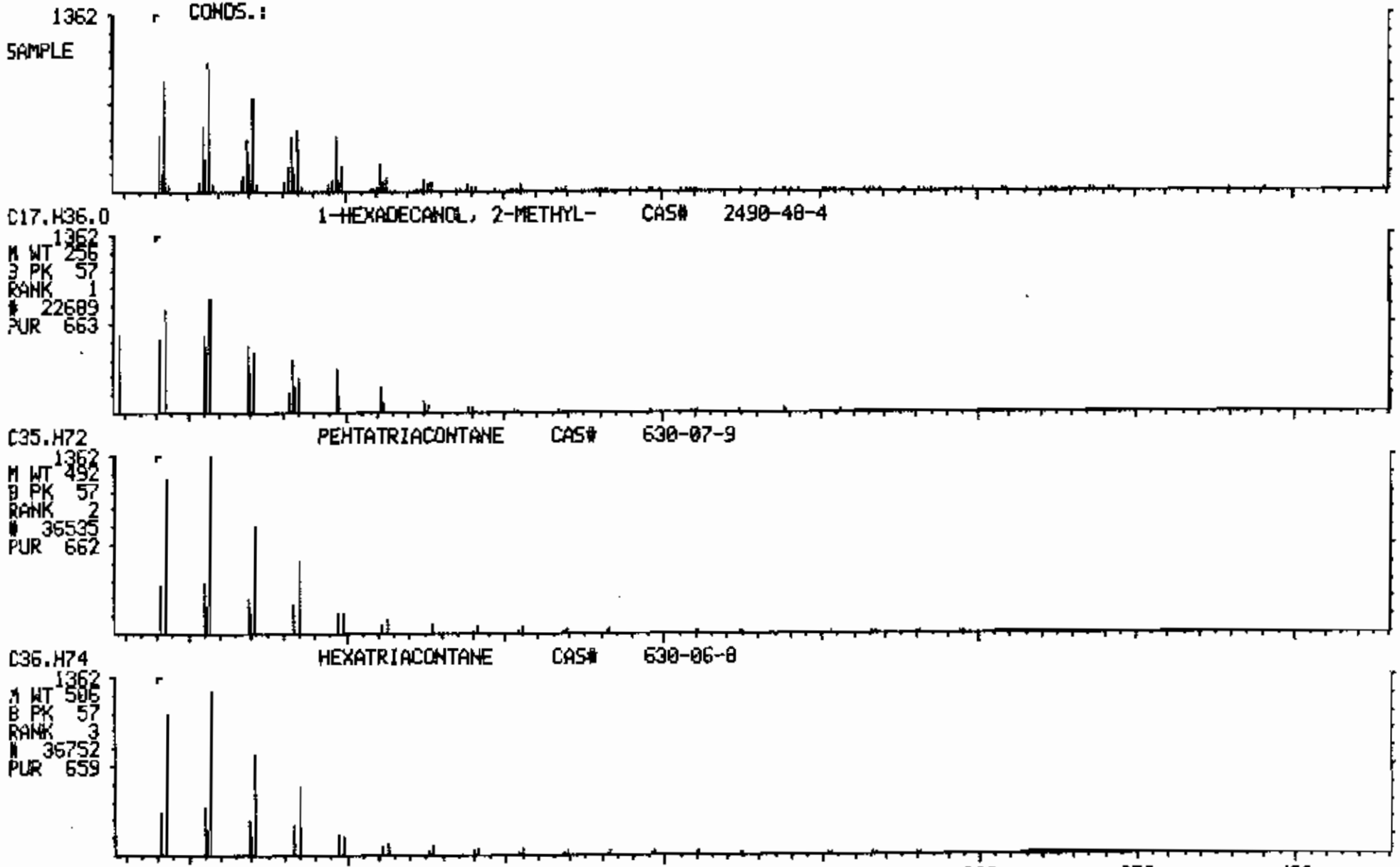


COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:00:00 + 17:39
SAMPLE: 1UL CC#05003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:

DATA: GH005003C15 #1172
ENHANCED (10B 2H 0T)

BASE M/Z: 57
RIC: 280255.



C17.H36.0 1-HEXADECANOL, 2-METHYL- CAS# 2490-48-4

1362
M WT 256
B PK 57
RANK 1
22689
PUR 663

C35.H72 PENTATRIACONTANE CAS# 630-07-9

1362
M WT 492
B PK 57
RANK 2
36535
PUR 662

C36.H74 HEXATRIACONTANE CAS# 630-06-8

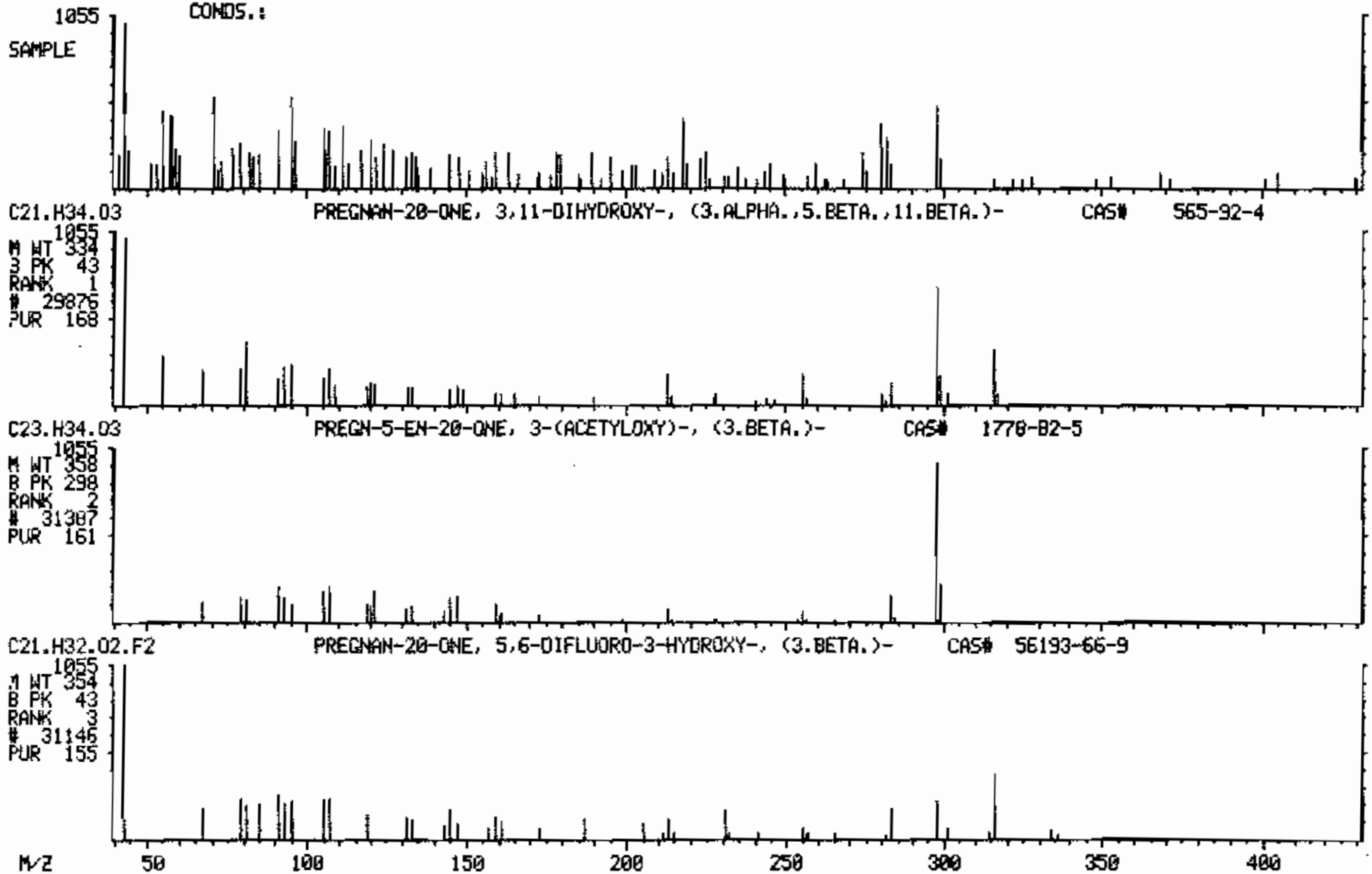
1362
M WT 506
B PK 57
RANK 3
36752
PUR 659

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:00:00 + 17:44
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:

DATA: GH085003C15 #1170
ENHANCED (10B 2N 0T)

BASE M/Z: 43
RIC: 27903.

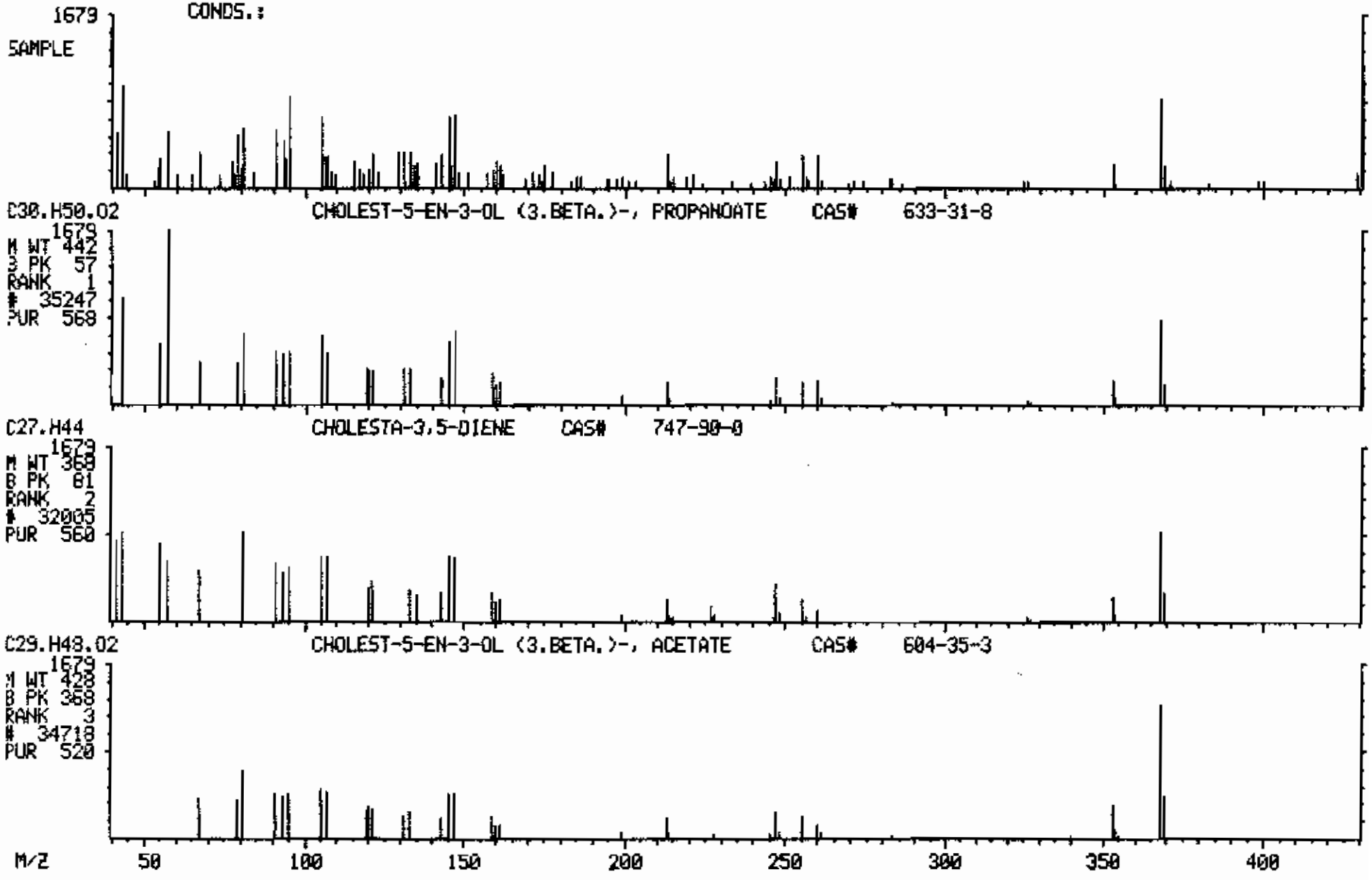


COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:00:00 + 18:01
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:

DATA: GH085003C15 #1196
ENHANCED (10B 2N 0T)

BASE M/Z: 43
RIC: 33599.



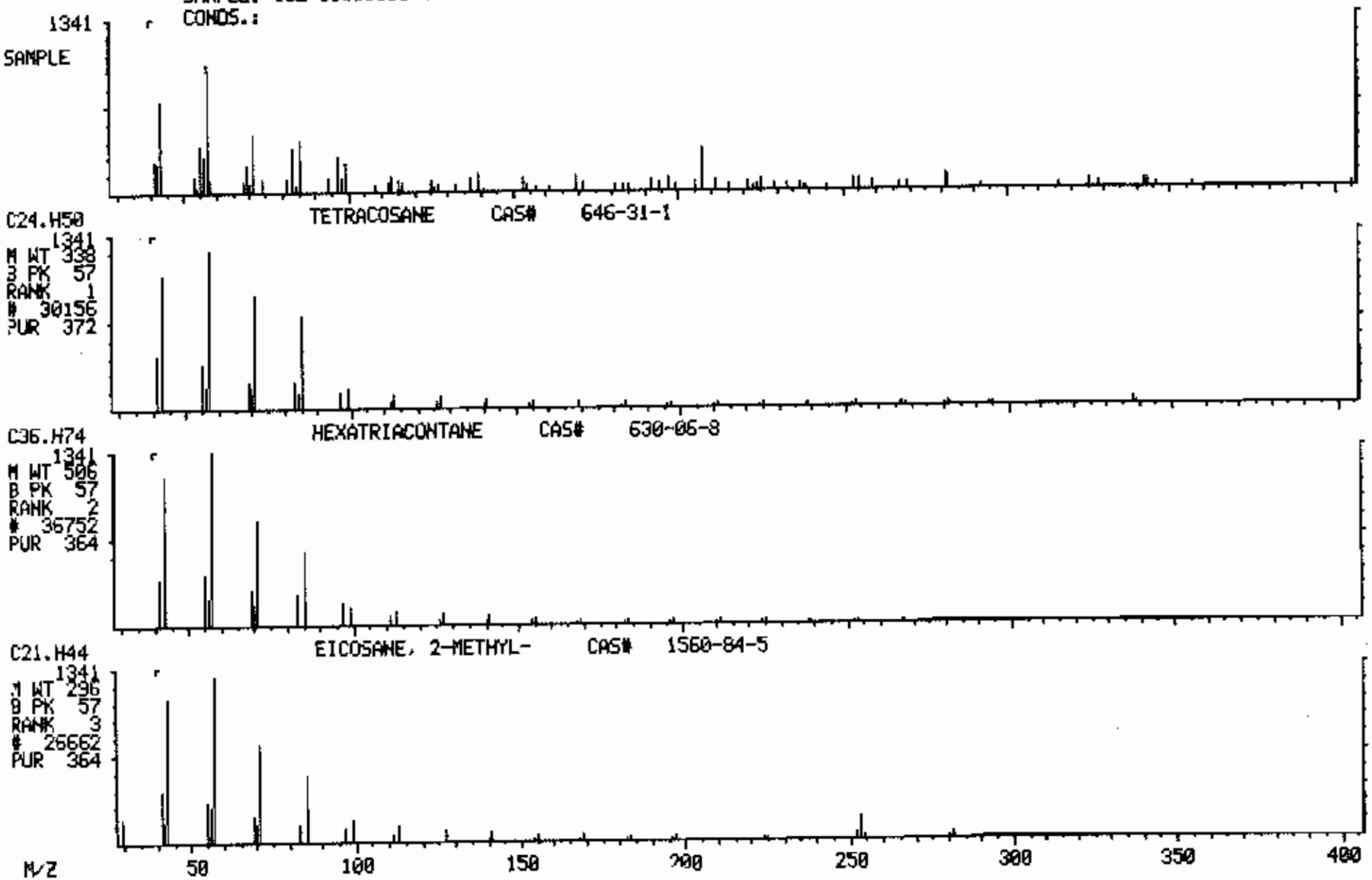
BNA12

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:00:00 + 18:09
SAMPLE: 1UL CC#85083 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:

DATA: GH085003C15 #1205
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 19775.



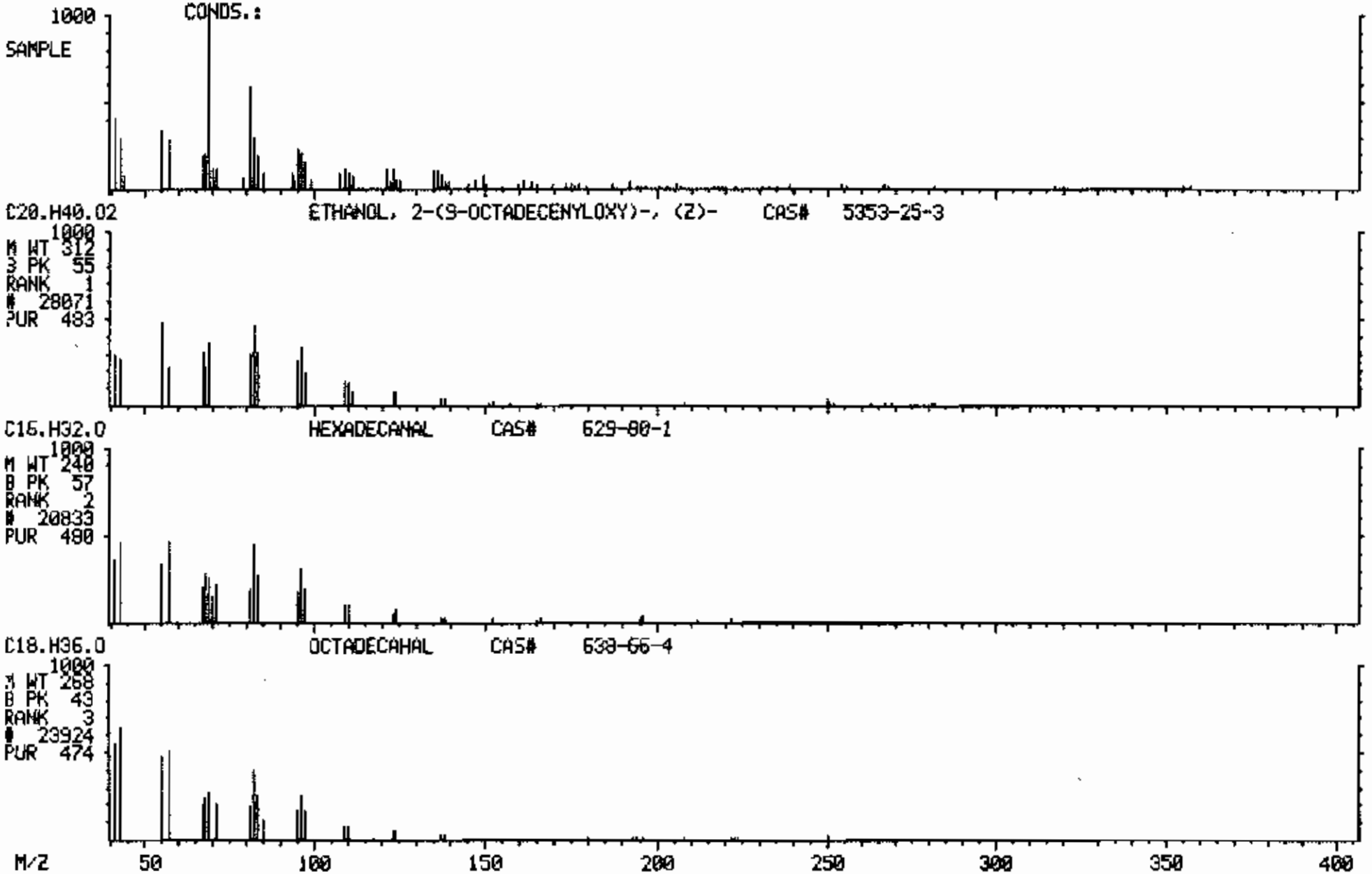
BNA13

COMPUCHEM LABS

MIO LIBRARY SEARCH
05/20/86 6:00:00 + 18:23
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:

DATA: GH085003C15 #1221
ENHANCED (100 2N 0T)

BASE M/Z: 69
RIC: 65919.



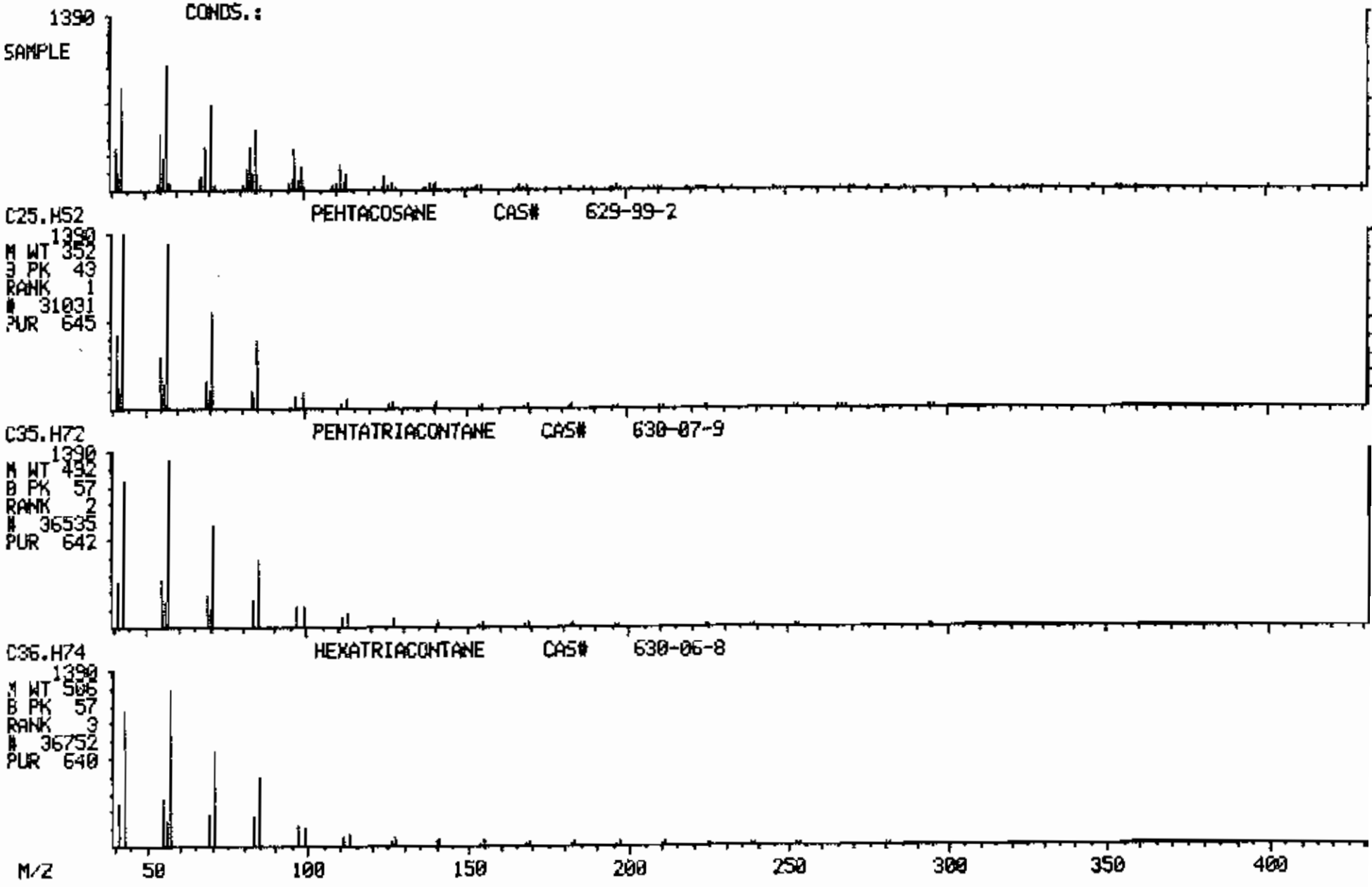
BNA19

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:00:00 + 10:44
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:

DATA: GH085003C15 #1244
ENHANCED (10B 2N 0T)

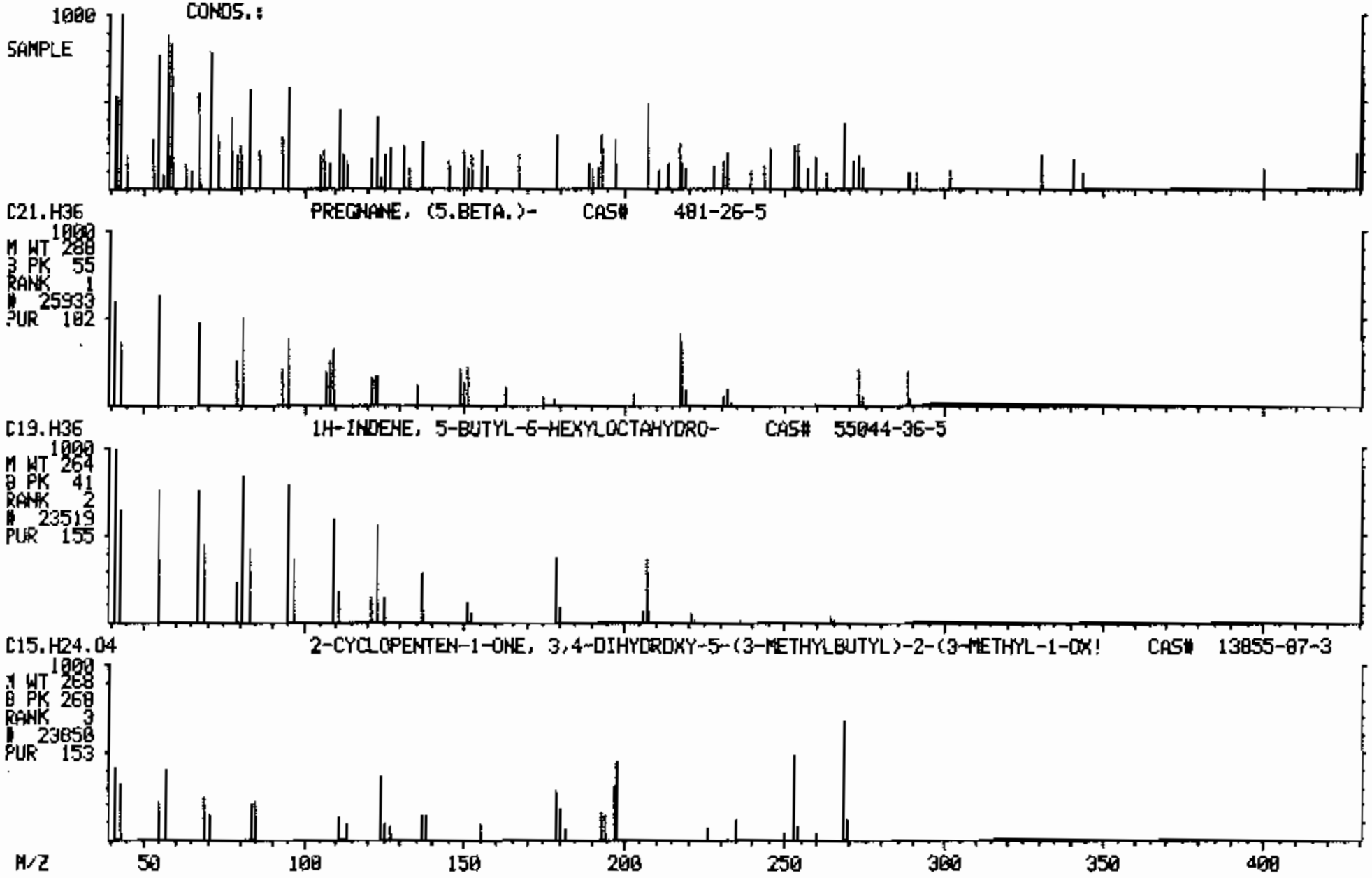
BASE M/Z: 57
RIC: 193279.



BNA6

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:00:00 + 18:53
DATA: GH085003C15 #1254
ENHANCED (10B 2N 0T)
BASE M/Z: 43
RIC: 16767.
SAMPLE: [UL CC#85003 (5-13-85) CS# URS WEST EPA# G SEDIMENT
CONDS.:

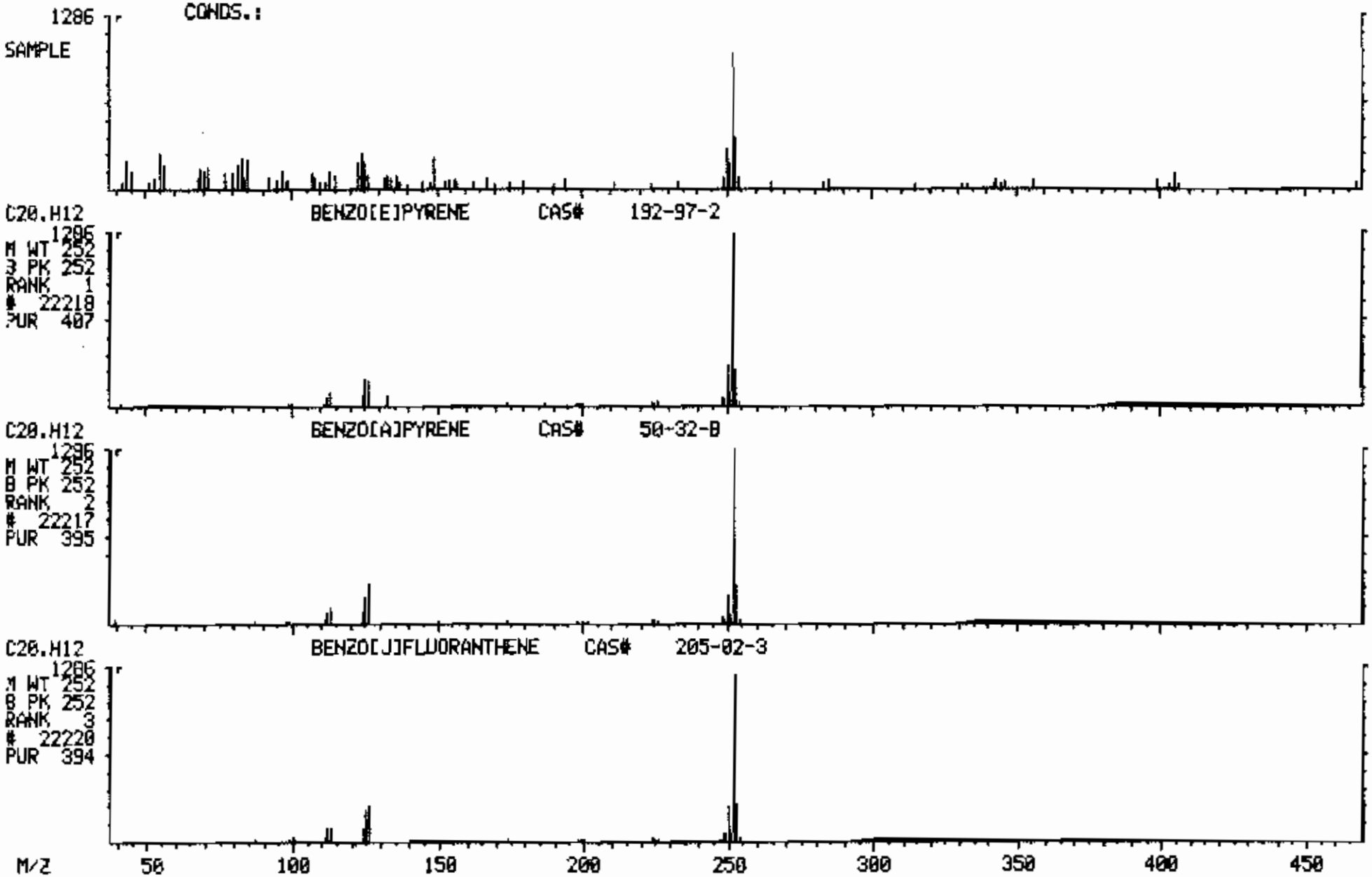


COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:00:00 + 19:01
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:

DATA: GH085003C15 #1263
ENHAHCED (10B 2N 0T)

BASE M/Z: 252
RIC: 18047.

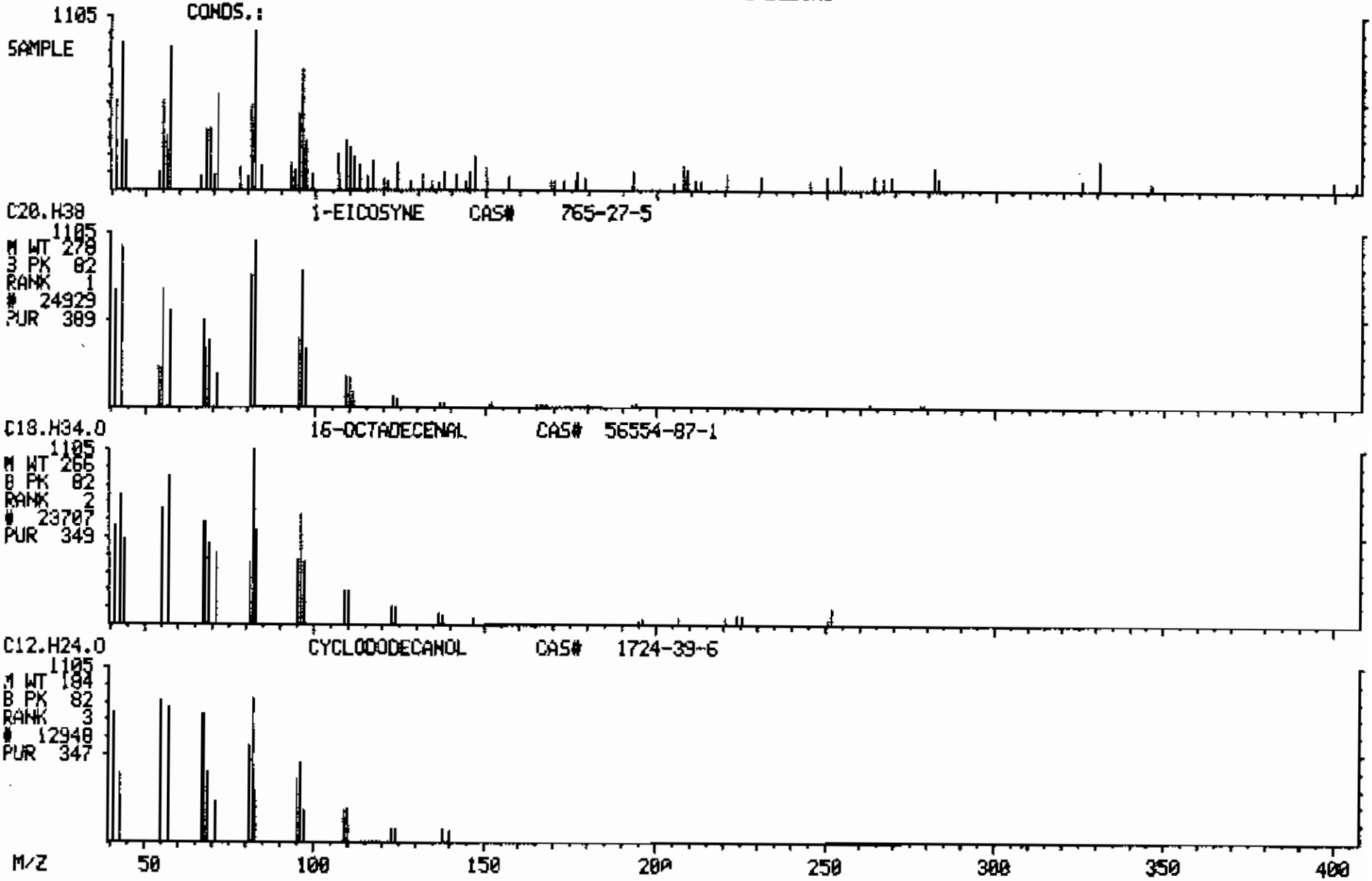


COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:00:00 + 19:46
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:

DATA: GH085003C15 #1313
ENHANCED (10B 2N 0T)

BASE M/Z: 82
RIC: 21791.



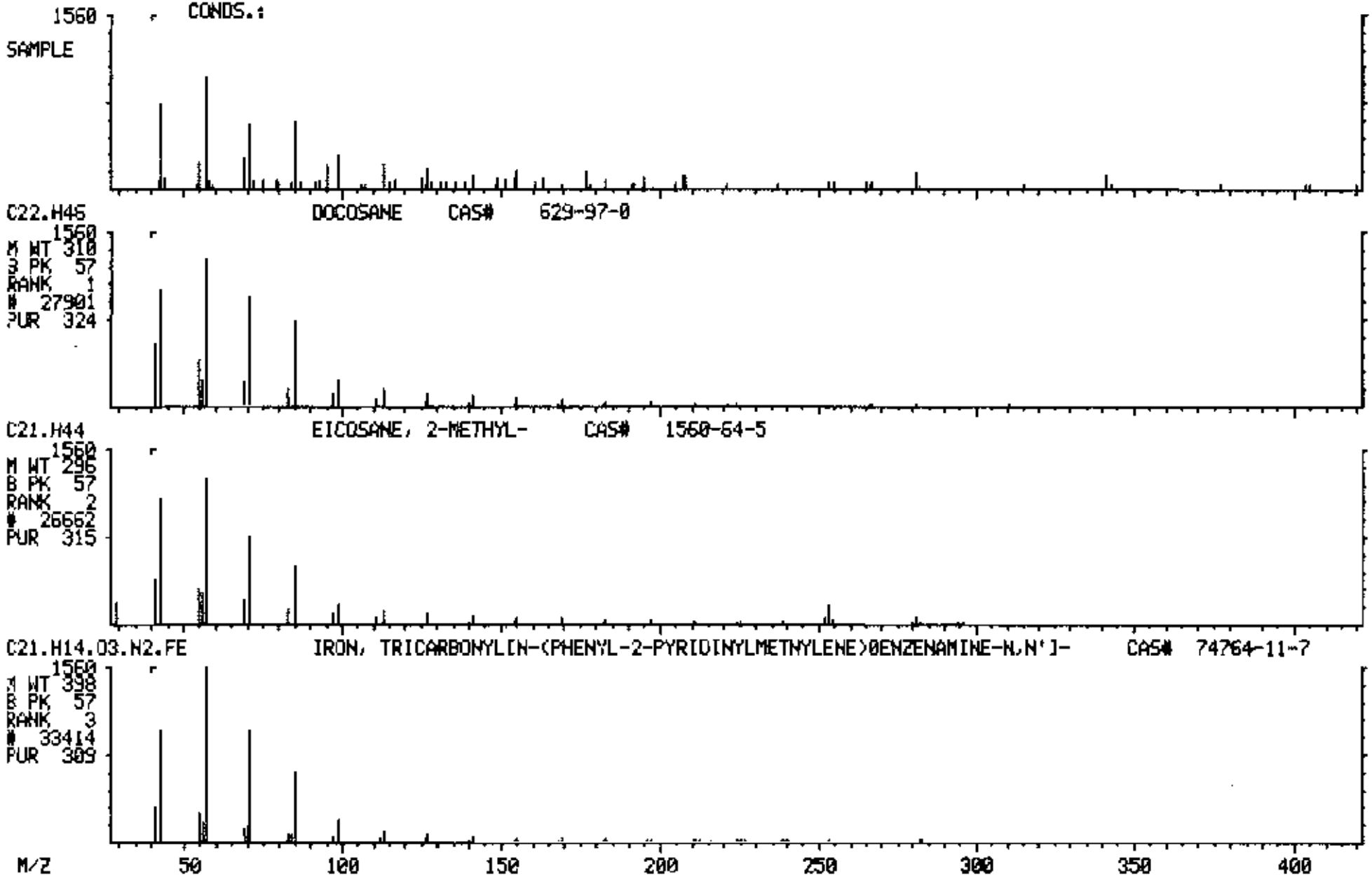
BNA 18

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:00:00 + 20:14
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:

DATA: GH085003C15 #1344
ENHANCED (10B 2N 0T)

BASE M/Z: 57
RIC: 19295.

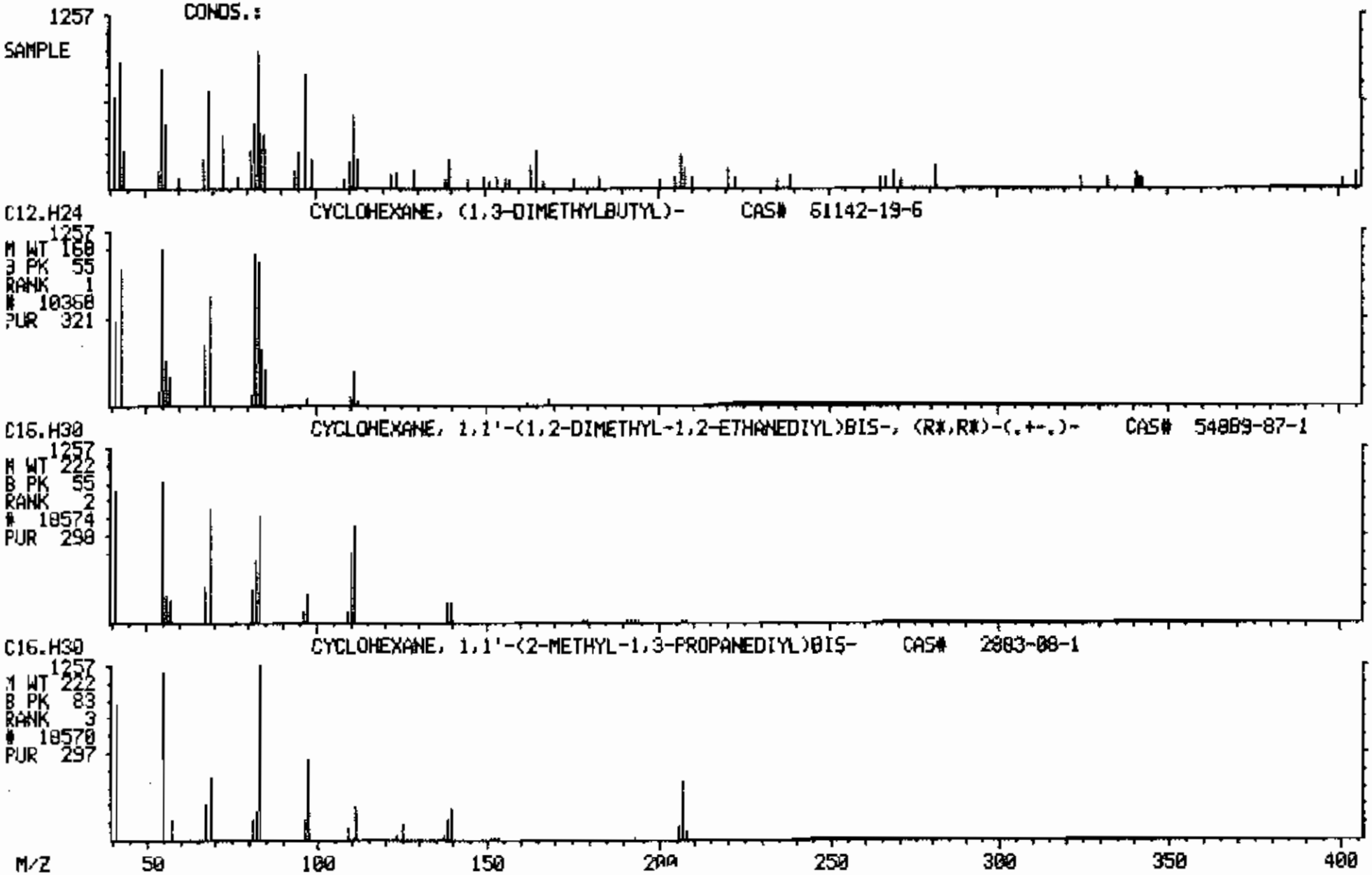


BNA A

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:00:08 + 20:18
DATA: GH085003C15 #134B
ENHANCED (10B 2N 0T)
BASE M/Z: 83
RIC: 17695.

SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:



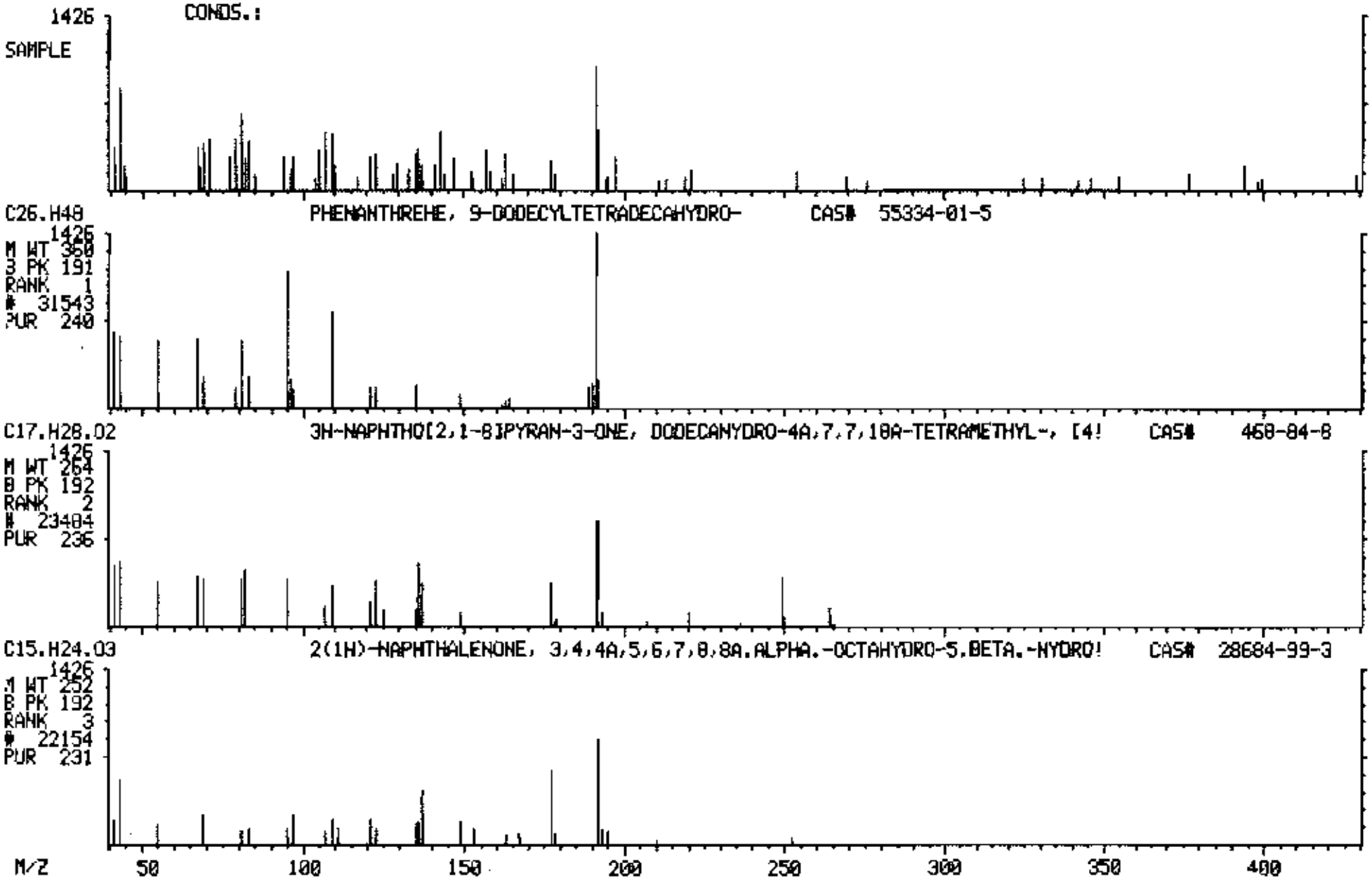
BNA 20

COMPUCHEM LABS

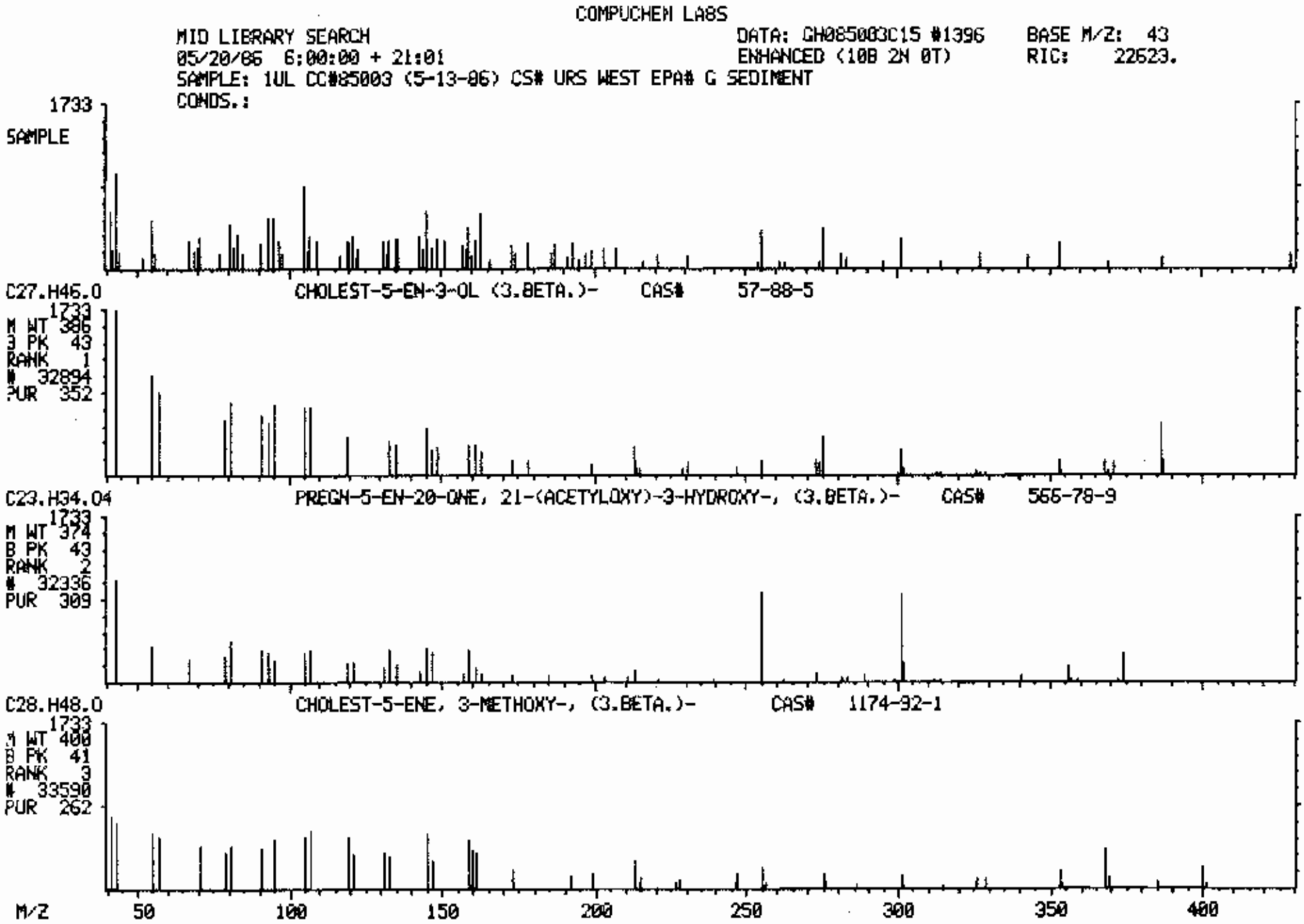
MID LIBRARY SEARCH
05/20/86 6:00:00 + 20:38
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:

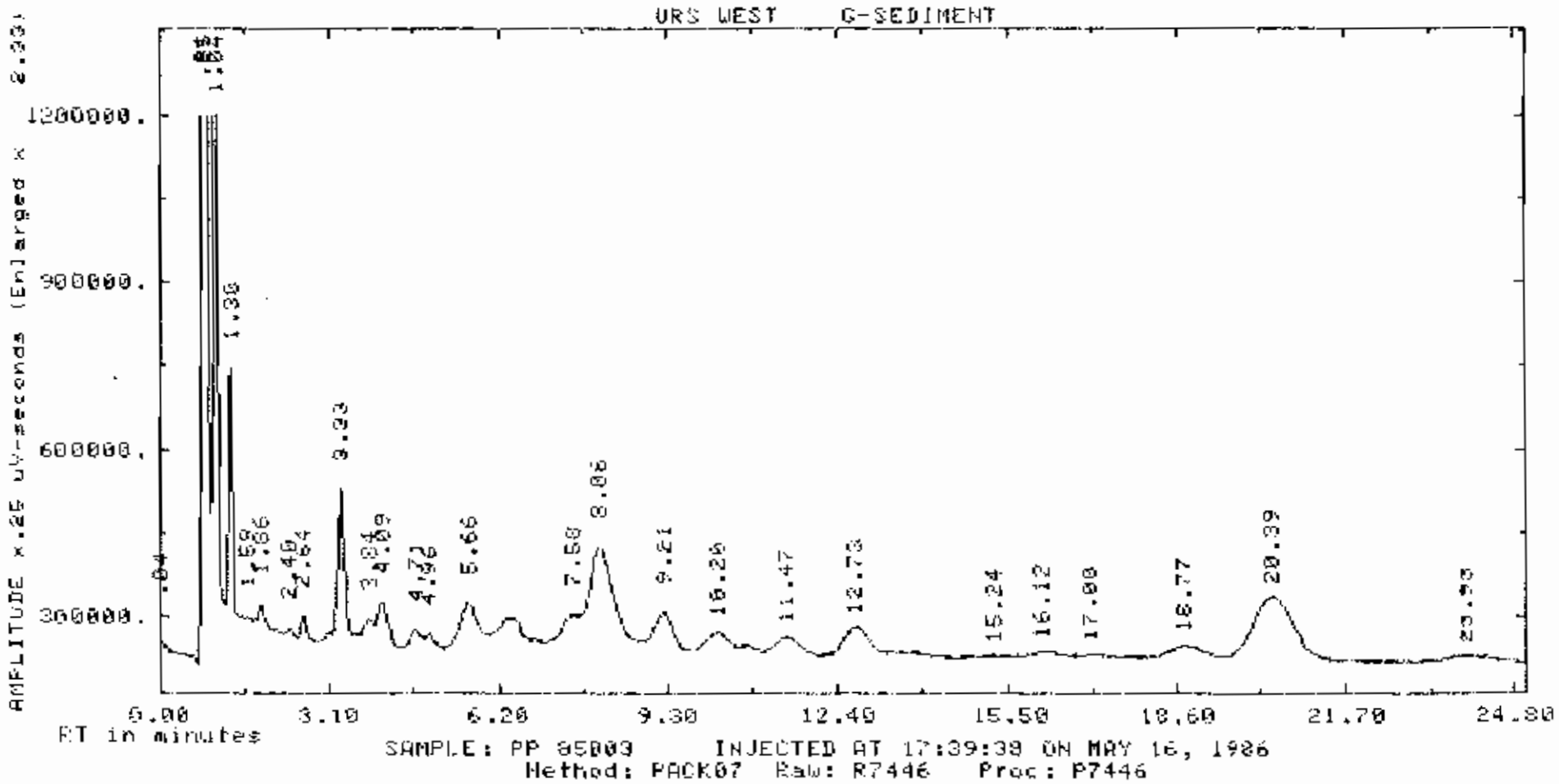
DATA: GH085003C15 #1370
ENHANCED (100 2N 0T)

BASE M/Z: 191
RIC: 16575.



BNA 21


COMPUCHEM LABS
MID LIBRARY SEARCH
05/20/86 6:00:00 + 21:01
DATA: GH085003C15 #1396
ENHANCED (10B 2N 0T)
BASE M/Z: 43
RIC: 22623.
SAMPLE: 1UL CC#85003 (5-13-86) CS# URS WEST EPA# G SEDIMENT
CONDS.:
1733
SAMPLE
C27.H46.O
CHOLEST-5-EN-3-OL (3.BETA.)-
CAS# 57-88-5
1733
M WT 386
B PK 43
RANK 1
32894
PUR 352
C23.H34.O4
PREGN-5-EN-20-ONE, 21-(ACETYLOXY)-3-HYDROXY-, (3.BETA.)-
CAS# 566-78-9
1733
M WT 374
B PK 43
RANK 2
32336
PUR 309
C28.H48.O
CHOLEST-5-ENE, 3-METHOXY-, (3.BETA.)-
CAS# 1174-92-1
1733
M WT 400
B PK 41
RANK 3
33590
PUR 262
M/Z
50
100
150
200
250
300
350
400


URS WEST G-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 0.25)
1200000.
900000.
600000.
300000.
.84
1.36
1.58
1.86
2.40
2.64
3.23
3.84
4.09
4.32
5.66
7.58
8.06
9.21
10.26
11.47
12.73
15.24
16.12
17.00
18.77
20.39
23.95
5.00
3.10
6.20
9.30
12.40
15.50
18.60
21.70
24.80
RT in minutes
SAMPLE: PP 85003 INJECTED AT 17:39:38 ON MAY 16, 1986
Method: PACK07 Raw: R7446 Proc: P7446

Report: 219.00 Channel: 7 URS WEST G-SEDIMENT

Sample: PP 85003 Injected at 17:39:38 ON MAY 16, 1986

APCT Method: PACK07 Seq: SEQ74 Subsq/Samp: 1/46 Btl: 46

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	10000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	500.00	NO

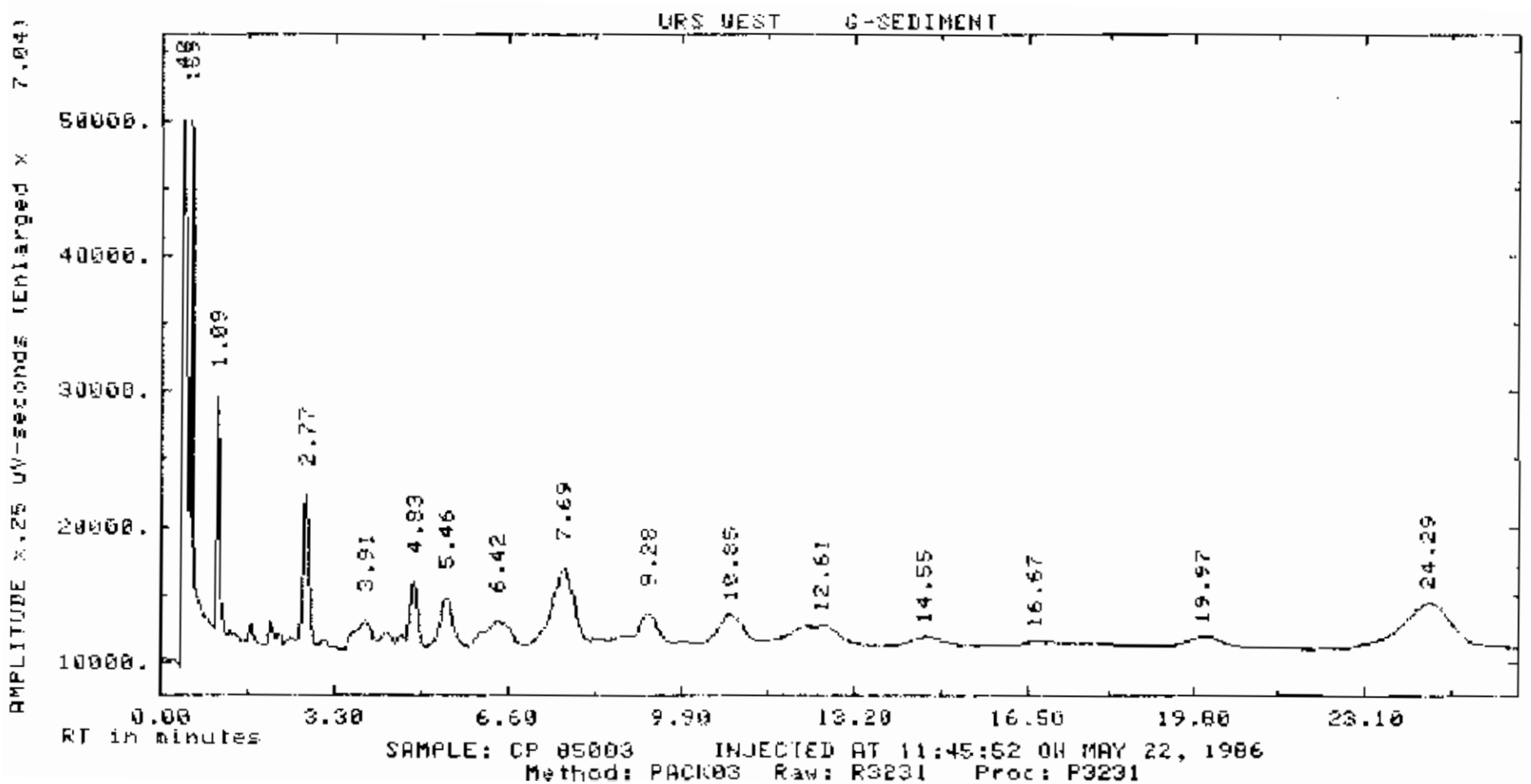
Actual run time: 25.008 minutes

Ended not on baseline
No reference peak found

RT	ITM	Factor	Area		AREA %	Name
.04	0.00	.10000E+01	17310.	BB	.544	
.81	0.00	.10000E+01	0.	BS	0.000	
.85	0.00	.10000E+01	1421590.	BB	44.694	
1.04	0.00	.10000E+01	3451426.	BS	108.510	
1.30	0.00	.10000E+01	992646.	BB	31.208	
1.59	0.00	.10000E+01	16053.	BB	.505	
1.86	0.00	.10000E+01	110257.	BB	3.466	
2.40	0.00	.10000E+01	44520.	BB	1.400	
2.64	0.00	.10000E+01	143313.	BB	4.506	
3.33	0.00	.10000E+01	1152933.	BB	36.247	
3.84	0.00	.10000E+01	61869.	BB	1.945	
4.09	0.00	.10000E+01	310063.	BB	9.748	
4.71	0.00	.10000E+01	91437.	BB	2.875	
4.96	0.00	.10000E+01	57636.	BB	1.812	
5.66	0.00	.10000E+01	607377.	BB	19.095	
7.58	0.00	.10000E+01	15752.	BB	.495	
8.06	0.00	.10000E+01	1690206.	BB	53.139	
9.21	0.00	.10000E+01	651245.	BB	20.475	
10.20	0.00	.10000E+01	322733.	BB	10.146	
11.47	0.00	.10000E+01	402102.	BB	12.642	
12.73	0.00	.10000E+01	711276.	BB	22.362	
15.24	0.00	.10000E+01	37007.	BB	1.163	
16.12	0.00	.10000E+01	111107.	BB	3.493	
17.00	0.00	.10000E+01	74902.	BB	2.355	
18.77	0.00	.10000E+01	402278.	BB	12.647	
20.39	0.00	.10000E+01	2681352.	BB	84.299	
23.93	0.00	.10000E+01	325358.	BF	10.229	

Total Area = 15903764. Total AREA % = 325358.000

Processed data file: P7446 Raw data file: R7446


URS WEST G-SEDIMENT
AMPLITUDE x.25 UV-seconds (Enlarged x 7.04)
50000.
40000.
30000.
20000.
10000.
.48
1.09
2.77
3.91
4.93
5.46
6.42
7.69
9.28
10.85
12.61
14.55
16.67
19.97
24.29
0.00
3.30
6.60
9.90
13.20
16.50
19.80
23.10
RT in minutes
SAMPLE: CP 85003 INJECTED AT 11:45:52 ON MAY 22, 1986
Method: PACK03 Raw: R3231 Proc: P3231

Report: 406.00 Channel: 3 URS WEST G-SEDIMENT

Sample: CP BS003 Injected at 11:45:52 ON MAY 22, 1986

ZERO Method: PACK03 Seq: SEQ32 Subsq/Samp: 1/31 Rtl: 31

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.560	.300	0.00	5000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTw	%RTw	%Dil-1	Iso
NO	0.00	6	.30	5.0	500.00	NO

Actual run time: 26.008 minutes

Ended not on baseline

RT	ITM	Factor	Area		AREA %	Name
.40	0.00	.10000E+01	306486.	BS	185.965	
.59	0.00	.10000E+01	30339.	BB	18.409	
1.09	0.00	.10000E+01	30709.	BB	18.633	
2.77	0.00	.10000E+01	38791.	BB	23.537	
3.91	0.00	.10000E+01	6224.	BB	3.776	
4.83	0.00	.10000E+01	20996.	BB	12.739	
5.46	0.00	.10000E+01	30416.	BB	18.456	
6.42	0.00	.10000E+01	30221.	BB	18.337	
7.69	0.00	.10000E+01	79343.	BB	48.143	
9.28	0.00	.10000E+01	19962.	BB	12.112	
10.85	0.00	.10000E+01	32258.	BB	19.573	
12.61	0.00	.10000E+01	38481.	BB	23.349	
14.55	0.00	.10000E+01	13950.	BB	8.465	
16.67	0.00	.10000E+01	14649.	BB	8.888	
19.97	0.00	.10000E+01	18509.	BB	11.231	
24.29	0.00	.10000E+01	112706.	BF	68.387	

Total Area = 824040. Total AREA % = 112706.500

Processed data file: P3231 Raw data file: R3231

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB'S ONLY IN PLATINUM FORM
CASE#:URS WEST DUE DATE: 6/11/86

VOA
GC/MS WORKSHEET COMPUCHEM#: 85003

R[ ] R2[ ] D[ ] (:1)
R3[ ] R4[ ] D2[ ] (:1)

LOW LEVEL SOLID

Sample Prep Code---155
Instrument Code----257
Compound List------146
Surrogate Std------394
Internal Std-------036

SAS: EPA#: G-SEDIMENT Dry Weight Factor 2.35

GC/MS ANALYSIS
Amount Purged: [X] 10mls/Xg soil or [ ]Dilution ______ul/10000ul/Xg soil
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BFBL0515A18 Disk(2940)
Blank Filename BLKL0515A18 Disk ( )
Standard Filename STDL0515A18 Disk ( )
Sample Filename GM085003A18 Disk ( )

ANALYST(S): Injection 818 Work-up ______

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,ES,SM,JS,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR
IF,LA,DI,CO,RN,DW,SI,SF
UF,BB,OT,VC,FO,NS

Disposition: [✓] Complete
[ ] Reprep neat required
[ ] Reprep using ______g
[ ] Dilute (:1)

Extraneous Peak Search Results:
# of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required ______

COMMENTS:

GC/MS Review BAH Date 5/16/86 Auditor ______ Date ___/___/___

REPORT INTEGRATION. Total # of Injections: 1
Final Reportable Package(s): GH085003A18 / ______

QA COMMENTS:

Initials ______ Date ___/___/___

FINAL REVIEW: Initials ______ Date ___/___/___

AC387 (09/85)

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB'S ONLY IN PLATINUM FORM

CASE#: URS WEST DUE DATE: 6/11/86

SEMI-VOLATILE
GC/MS WORKSHEET COMPUCHEM#: 85003

J[ ] R[ ] D[ ] (:1)

J2[ ] R2[ ] D2[ ] (:1)

LOW LEVEL SOLID

Sample Prep Code---- -717
Instrument Code-------255
Compound List---------172
Surrogate Std---------393
Internal Std----------035

SAMPLE ID/EPA#: G-SEDIMENT Dry Weight Factor 2.35

GC/MS ANALYSIS
Volumes mixed: BN / 200 ul Acid \ ul
Internal Standard Volume Added 5 ul
Mixed Sample Volume Injected 1 ul
Date of Sample Bottle Analyzed 5/13/86
DFTPP Filename DI860519B15 Disk (3117)
Standard Filename HG860520C15 Disk ( )
Sample Filename GH08300SC15 Disk (/)

ANALYST(S): Injection 419 Work-up 419

GC/MS REVIEW

CONDITION CODE: ok

Entry Codes OK,EA,JA, ES,AL,AH,FL,PH,FL,JS FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,DA ED,IF,LA,DI,CO,RN,DW,NS

RL20 5/20

Extraneous Peak Search Results:

# of Peaks Found: 21

# of Hits: 11

# of Surrogate Outliers: 0

Quality Assurance Notice(s):

Notices Required 0

Disposition:
[✓] Complete
[ ] Reinjection required
[ ] Reextraction required
[ ] Dilute (:1)
[ ] Reinject Neat
[ ] Send to QA

GC/MS Review [signature] Date 5/20/86 Auditor ____ Date __/__/__

REPORT INTEGRATION Total # of Injections 1
Final Reportable Package(s): ____/____

QA COMMENTS:

Initials ____ Date __/__/__

FINAL REVIEW: Initials [signature] Date __/__/__

5/23

AC385 (07/85)

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB'S ONLY IN PLATINUM FORM
CASE # URS WESTDATE DUE 6/11/86
COMPUCHEM # 85003

PESTICIDE
WORKSHEET

Sample Prep Code---716
Instrument Code----124
Compound List------177
Surrogate Std------396

LOW LEVEL SOLID

SAS: ID#: G-SEDIMENT Dry Weight Factor
Blank Associated with Case _____ _____ _____ 2.35
Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes |___|

Wt. of sample 30.85 g final volume of extract 2.0 mls

portion of wt. in pesticide 1/10

ANALYSIS INFORMATION: COMMENTS |___| Send to QA

Inst. # / Date Sequence Dil. Fact.

5/6 7 74 5
5-22 3 32 5

BDL
~~Heptachlor Epoxide~~
~~Dieldrin~~
~~4,4'-DDE~~ NC

|___| QA Approved

|___| Need GC/MS Confirmation

___ ___ ___ ___ Analyst 924 | 899 Date 5-23-86

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE 2681 X Dilution Factor 5 X 100 = 85 % Recovery
AREA IN STD 15762
% Recovery X 0.1 ug/ml = .085 ug/ml

+EA = re-extract acceptable
JA = reinject acceptable
QA = repeat confirmed original results
OK = original data acceptable (not for REPEATS)
NS = insufficient sample for repeat
DL = DBC low (<20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.

FINAL STATUS CODE+= | OK |

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

|___| QANA |___| DAN3 QA notice included.

SAMPLE DISPOSITION Code

|___| Complete.....

|___| Requires Re-extraction.. 716

|___| Requires reprep..... 930

|___| Requires cleanup..... 901

Audited By _____ Date _____

ENTERED

(19)

VOLATILE PREP WORKSHEET

№ 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
84986	-155	URS WEST			5.07g	5-13-86					ENT
84988	1	1	BS		0ml	1					
84989			SS	84986	5.07g						
84990					5.01g						ENT
84991			SS	84990	5.01g						
85000					5.02g						ENT
85001					5.07g						ENT
85002					5.00g						ENT
85003					5.01g						ENT
85004					5.09						ENT
85005					5.09	1					ENT
85028			B		5.0ml	5-13-86					
85029			B		0ml	5-13-86					
			B								

Surrogate No. /

Amount /

Lot /

MBy 5-13-86

Schedule Reference

Manual Counter 2781 715

(47)

VOLATILE PREP WORKSHEET

No 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
84986	-158	ULS WEST			20.09g	5-13-86			✓		ENT
84987			BS		40 ml				✓		
84990					20.06g				✓		ENT
85000					20.02g				✓		ENT
85001					20.07g				✓		ENT
85002					20.02g				✓		ENT
85003					20.05g				✓		ENT
85004					20.10g				✓		ENT
85005					20.01				✓		ENT
85034			B		40 ml	5-13-86			✓		
85035			B		40 ml	5-13-86			✓		
			B								

REVIEWED 5/14/86

Surrogate No. # 381
Amount 200 µl
Lot 17477

MBA 5/13/86

Schedule Reference
Manual Counter 288/472

EXTRACTION WORKSHEET
Semi-Volatiles/Miscellaneous

ASSIGNED TO: Linda 1 A.T.

DATE ASSIGNED: 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
84992	-153	WSwest	NA	BS		30.00	1ml	—		—			5/13	
84993	-717	WSwest	↓	BS		30.00	—	0.9		1ml			5/13	
84994	↓	WSwest		SS	85001	30.58	—	0.9		1ml			5/13	277/499
84995		WSwest		SS	85001	30.32	—	0.9		1ml			5/13	
84986		WSwest				30.89	1ml	0.9		1ml			5/13	
84990		↓				30.24	1ml	0.9		1ml			5/13	
85000						30.41	1ml	0.9		1ml			5/13	
85001						30.82	1ml	0.9		1ml			5/13	
85002						30.45	1ml	0.9		1ml			5/13	
85003		↓	↓			30.85	1ml	0.9		1ml			5/13	

Blanks 85102, 85103 } on pg 9782 along w/other Sing

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17794			17686		
SPIKE	NO.		3012	2021			
	AMT.		1.0ml	1.0ml			
	LOT		17654	17771			

MANUAL COUNTER: 270 / 6/13

FINAL VOLUME VERIFIED: L.A.P.

SUPERVISOR REVIEWED: OK/B

EXTRACTS RECEIVED BY: BD 5/13/86

florisil lot # 209
marked 5/13/86

No 9781

EXTRACTION WORKSHEET

Semi-Volatiles / Miscellaneous

ASSIGNED TO: [illegible]

DATE ASSIGNED 5-13-86

PAGE _____ OF _____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
85004	-717	Weswest	NA			30.47	1ml	0.9		1.0 ml			5/13	
85005	"	"	"			30.30	1ml	0.9		1.0 ml			5/13	
85102				B		30.10	1ml	0.9		1.0 ml			5/13	
85103	↓			B		30.00	1ml	0.9		1.0 ml			5/13	

Adds STANDARDS OF 9786

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			375		
	AMT.	05 ml			2 ml		
	LOT	7794			DCM		
SPIKE	NO.						
	AMT.						
	LOT						

MANUAL COUNTER 270/613

FINAL VOLUME VERIFIED LLP

SUPERVISOR REVIEWED [illegible] 5/13

EXTRACTS RECEIVED BY BD 5/13/86

Acetone Lot # 309

№ 782

EXTRACTION WORKSHEET
Pesticide/Herbicide

ASSIGNED TO: Linda [illegible]

DATE ASSIGNED: 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV B/N	ACID	PEST	ALUMINIA COLUMN START VOL	ALUMINIA COLUMN FINAL VOL	DATE COMPT	COMMENTS
84992	153	UKSwat	NA	BS		30.00	1.1	—		—		2		
84993	716	UKwet		BS		30.00	—	[illegible]		1.1				
84994		UKwat		SS	84991	30.58	—	[illegible]		1.1				227/494
84995		UKSwt		SS	85001	30.33	—	[illegible]		1.1				
84986		UKSwat	A SEDIMENT			30.89	1.1	1.4		1.1	1.0ml	2.0ml	5-14-86	
84990			A SEDIMENT			30.34	1.1	[illegible]		1.1	1.0	2.0	5-14	
85000			D SEDIMENT			30.44	1.1	1.9		1.1	1.0	2.0	5-14	
85001			E SEDIMENT			30.82	1.1	1.9		1.1	1.0	2.0	5-14	
85002			F SEDIMENT			30.45	1.1	1.9		1.1	1.0	2.0	5-14	
85003			G SEDIMENT			30.85	1.1	1.9		1.1	1.0	2.0	5-14	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17794			17686		
SPIKE	NO.		3012	2021			
	AMT.		1.0ml	1.0ml			
	LOT		17654	17777			

Blank 85102 ? on 9782 along w/other Sury
CASE 85103 BN 05/14/86

MANUAL COUNTER 270 / 6/3

FINAL VOLUME VERIFIED L.A.P.

SUPERVISOR REVIEWED [illegible]

EXTRACTS RECEIVED BY [illegible] 5/13/86

Acetone Lot # 309

Alumina Batch 5-13-86 AL

POSTED 5-14-86 OKS

№ 978

EXTRACTION WORKSHEET
Pesticide / Herbicide

ASSIGNED TO: [illegible]

DATE ASSIGNED 5/13/86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ALUMINA COLUMN START VOL	ALUMINA COLUMN FINAL VOL	DATE COMPT	COMMENTS
85004	7170	[illegible]	H-SEDIMENT [illegible]			30.[illegible]	[illegible]			10.0	10ml	2.0ml	5/14/86	
85005	↓	UAS WEST ↓	C-SEDIMENT ↓			30.20	[illegible]			10.0	10	2.0	5-14	
85102				R		30.00	[illegible]	[illegible]		10.0	10ml	2.0ml	5-14-86	
85103	↓			R2		30.00	[illegible]	[illegible]		10.0	10	2.0	5-14	

OKS

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	593			551		
	AMT.	25ul			2.0ul		
	LOT	12794			126[illegible]		
SPIKE	NO.						
	AMT.						
	LOT						

Add'n samples on # 9781 [initials]
CASE ✓ BW 05/14/86

MANUAL COUNTER 570/613

FINAL VOLUME VERIFIED LEP

SUPERVISOR REVIEWED [initials]

EXTRACTS RECEIVED BY [signature] 5/13/86

Acetone Lot # 309
Alumina Batch 5-13-86 · AL

POSTED 5·14·86 [initials]

Nº 978[illegible]

VOLATILE - LOW LEVEL SOLID

P #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
234	128	I	BROMOCHLOROMETHANE (IS) <75	193	55100.	50.0		
221	50		CHLOROMETHANE <75-01-4> E5#				BDL	23.
220	94		BROMOMETHANE <78-83-9> E5#3				BDL	23.
231	62		VINYL CHLORIDE <75-01-4> E5				BDL	23.
209	64		CHLOROETHANE <75-00-3> E5#5				BDL	23.
222	84		METHYLENE CHLORIDE <75-09-2			9.8	23.	12.
252	43		ACETONE (2-PROPANONE) <67-6			13.9	32. B	23.
254	76		CARBON DISULFIDE <75-15-0>				BDL	12.
216	96		1,1-DICHLOROETHYLENE <75-35				BDL	12.
214	63		1,1-DICHLOROETHANE <75-34-3				BDL	12.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	12.
211	83		CHLOROFORM <67-66-3> E5#12				BDL	12.
215	62		1,2-DICHLOROETHANE <107-06-				BDL	12.
248	114	I	1,4-DIFLUOROBENZENE (IS) <5	401	216000.	50.0		
253	72		2-BUTANONE <78-93-3> E6#2				BDL	23.
227	97		1,1,1-TRICHLOROETHANE <71-5				BDL	12.
206	117		CARBON TETRACHLORIDE <56-23				BDL	12.
257	43		VINYL ACETATE <108-05-4> E6				BDL	23.
212	83		BROMODICHLOROMETHANE <75-27				BDL	12.
217	63		1,2-DICHLOROPROPANE <78-87-				BDL	12.
250	75		TRANS-1,3-DICHLOROPROPENE <				BDL	12.
229	130		TRICHLOROETHYLENE <79-01-6>				BDL	12.
8	129		CHLORODIBROMOMETHANE <124-4				BDL	12.
.8	97		1,1,2-TRICHLOROETHANE <79-0				BDL	12.
203	78		BENZENE <71-43-2> E6#12				BDL	12.
218	75		CIS-1,3-DICHLOROPROPENE <10				BDL	12.
210	63		2-CHLOROETHYL VINYL ETHER <				BDL	23.
205	173		BROMOFORM <75-25-2> E6#15				BDL	12.
270	117	I	D5-CHLOROBENZENE (IS)	503	207000.	50.0		
256	43		4-METHYL-2-PENTANONE <108-1				BDL	23.
255	43		2-HEXANONE <591-78-6> E7#3				BDL	23.
224	164		TETRACHLOROETHENE <127-18-4				BDL	12.
223	83		1,1,2,2-TETRACHLOROETHANE <				BDL	12.
225	92		TOLUENE <108-88-3> E7#6				BDL	12.
207	112		CHLOROBENZENE <108-90-7> E7				BDL	12.
219	106		ETHYLBENZENE <100-41-4> E7#				BDL	12.
251	104		STYRENE <100-42-5> E7#9				BDL	12.
240	106		M-XYLENE E7#10				BDL	12.
271	106		O,P-XYLENE E7#11				BDL	12.
258	65	S	D4-1,2-DICHLOROETHANE E8#2			48.0	96. %	
247	95	S	BROMOFLUOROBENZENE <460-00-			50.4	101. %	
233	98	S	08-TOLUENE E8#4			48.8	98. %	
CHECKSUMS:								
1964.	744			1097	478100.	320.9	350.	

VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE EB#2	48.0	50.0	96.	70-121	X	
41	247	BROMOFLUOROBENZENE <460-00-	50.4	50.0	101.	74-121	X	
42	233	D8-TOLUENE EB#4	48.8	50.0	98.	81-117	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#1) BROMOCHLOROMETHANE > 10000 COUNTS	/	

CORRECTION FACTOR CALCULATION:

$$\frac{\text{5.0 G}}{\text{WET WEIGHT OF SAMPLE (G)}} \times \text{GC/MS DILUTION FACTOR} \times \text{DRY WEIGHT FACTOR} =$$

$$\frac{\text{5.0 G}}{\text{5.01 (G)}} \times \frac{\text{1.0}}{\text{}} \times \frac{\text{2.3}}{\text{}} = 2.340$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

COMPUCHEM # 085003 FILE: GH085003C15 COMPOUND LIST 172 PAGE 1
SEMI-VOLATILE - LOW LEVEL SOLID

CMP #	M/E	P	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
494	152	I	D4-1,4-DICHLOROBENZENE (IS#	440	138000.	40.0		
610	94		PHENOL (G1#3) <108-95-2>				BDL	370.
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	370.
601	128		2-CHLOROPHENOL (G1#6) <95-5				BDL	370.
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	370.
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	370.
474	108		BENZYL ALCOHOL (G1#9) <100-				BDL	370.
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	370.
620	108		2-METHYLPHENOL (G1#11) <95-				BDL	370.
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	370.
622	108		4-METHYLPHENOL (G1#13) <106				BDL	370.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	370.
436	117		HEXACHLOROETHANE (G1#15) <6				BDL	370.
440	77		NITROBENZENE (G1#16) <98-95				BDL	370.
460	136	I	D8-NAPHTHALENE (IS#2)	555	490000.	40.0		
438	82		ISOPHORONE (G2#2) <78-59-1>				BDL	370.
606	139		2-NITROPHENOL (G2#3) <88-75				BDL	370.
603	122		2,4-DIMETHYLPHENOL (G2#4) <				BDL	370.
625	122		BENZOIC ACID (G2#5) <65-85-				BDL	1800.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	370.
602	162		2,4-DICHLOROPHENOL (G2#7) <				BDL	370.
36	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	370.
439	128		NAPHTHALENE (G2#9) <91-20-3				BDL	370.
475	127		4-CHLOROANILINE (G2#10) <10				BDL	370.
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	370.
608	107		P-CHLORO-M-CRESOL (G2#12) <				BDL	370.
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	370.
495	164	I	D10-ACENAPHTHENE (IS#3)	724	179000.	40.0		
435	237		HEXACHLOROCYCLOPENTADIENE (				BDL	370.
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	370.
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	1800.
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	370.
478	65		2-NITROANILINE (G3#6) <88-7				BDL	1800.
425	163		DIMETHYL PHTHALATE (G3#7) <				BDL	370.
402	152		ACENAPHTHYLENE (G3#8) <208-				BDL	370.
479	138		3-NITROANILINE (G3#9) <99-0				BDL	1800.
401	153		ACENAPHTHENE (G3#10) <83-32				BDL	370.
605	184		2,4-DINITROPHENOL (G3#11) <				BDL	1800.
607	139		4-NITROPHENOL (G3#12) <100-				BDL	1800.
476	168		DIBENZOFURAN (G3#13) <132-6				BDL	370.
427	89		2,4-DINITROTOLUENE (G3#14)				BDL	370.
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	370.
424	149		DIETHYL PHTHALATE (G3#16) <				BDL	370.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	370.
432	166		FLUORENE (G3#18) <86-73-7>				BDL	370.
480	138		4-NITROANILINE (G3#19) <100				BDL	1800.
467	188	I	D10-PHENANTHRENE (IS#4)	866	212000.	40.0		
604	198		4,6-DINITRO-2-METHYLPHENOL				BDL	1800.
443	169		N-NITROSODIPHENYLAMINE (G4#				BDL	370.
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	370.
433	284		HEXACHLOROBENZENE (G4#5) <1				BDL	370.
609	266		PENTACHLOROPHENOL (G4#6) <8				BDL	1800.
444	178		PHENANTHRENE (G4#7) <85-01-			1.4	J	370.

SEMI-VOLATILE - LOW LEVEL SOLID

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
426	149		DI-N-BUTYL PHTHALATE (G4#9)				BDL	370.
431	202		FLUORANTHENE (G4#10) <206-4			3.2	J	370.
459	240	I	D12-CHRYSENE (IS#5)	1122	152000.	40.0		
445	202		PYRENE (G5#3) <129-00-0>			3.3	J	370.
415	149		BUTYLBENZYL PHTHALATE (G5#4				BDL	370.
423	252		3,3'-DICHLOROBENZIDINE (G5#				BDL	~~730.~~ 15
405	228		BENZO(A)ANTHRACENE (G5#6) <			1.8	J	370.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE			2.2	J	370.
418	228		CHRYSENE (G5#8) <218-01-9>			4.5	J	370.
497	264	I	D12-PERYLENE (IS#6)	1278	145000.	40.0		
429	149		DI-N-OCTYL PHTHALATE (G6#2)				BDL	370.
407	252		BENZO(B)FLUORANTHENE (G6#3)			4.0	J	370.
409	252		BENZO(K)FLUORANTHENE (G6#4)			4.0	J	370.
406	252		BENZO(A)PYRENE (G6#5) <50-3			2.1	J	370.
437	276		INDENO(1,2,3-C,D)PYRENE (G6			1.1	J	370.
419	278		DIBENZO(A,H)ANTHRACENE (G6#				BDL	370.
408	276		BENZO(G,H,I)PERYLENE (G6#8)			1.1	J	370.
619	112	S	2-FLUOROPHENOL (SS#1)			69.2	78.%	
612	99	S	D5-PHENOL (SS#2)			70.3	79.%	
447	82	S	D5-NITROBENZENE (SS#3)			35.0	79.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			41.2	93.%	
28	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			47.6	54.%	
496	244	S	D14-TERPHENYL (SS#6)			37.8	85.%	
471	212	S	D10-PYRENE			37.1	84.%	
456	216		1,2,3,4-TETRACHLOROBENZENE				BDL	37.
CHECKSUMS:								
11619.	4879			4985	1316000.	608.9	552.	

SEMI-VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
72	619	2-FLUOROPHENOL (SS#1)	69.2	88.5 98.3	78. 70.	26-121	X	
73	612	D5-PHENOL (SS#2)	70.3	88.5 98.3	79. 71.	24-113	X	
74	447	D5-NITROBENZENE (SS#3)	35.0	44.2 49.2	79. 71.	23-120	X	
75	448	2-FLUOROBIPHENYL (SS#4)	41.2	44.2 49.2	93. 84.	30-115	X	
76	628	2,4,6-TRIBROMOPHENOL (SS#5)	47.6	88.5 98.3	54. 48.	18-123	X	
77	496	D14-TERPHENYL (SS#6)	37.8	44.2 49.2	85. 77.	18-137	X	
78	471	D10-PYRENE	37.1	44.2 49.2	84. 75.	33-128*	X	

* ADVISORY SURROGATE ONLY

++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS	✓	

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{SPLIT FACTOR (*)}} \times \frac{\text{30.0G}}{\text{AMOUNT EXTRACTED(G)}} \times \text{DRY WEIGHT FACTOR} \times \text{GC/MS DILUTION FACTOR} \times 33.3 =$$

$$\frac{1.0\text{ML}}{0.885} \times \frac{30.0\text{G}}{30.85\text{G}} \times \frac{1.0}{1.0} \times \frac{1.0}{1.0} \times 33.3 = 36.600$$

0.9 2.35 77.4 86.0 ✓

* SPLIT FACTOR = (295/300)(9/10) IF PEST/TCDD VOLUMES ARE INDICATED ON LOG
= 1 IF PEST/TCDD VOLUMES ARE NOT INDICATED ON EXTRACTION LOG

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{\text{1000 UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{SPLIT FACTOR}} \times \text{GCMS DILUTION FACTOR} =$$

$$\frac{1000\text{ UL}}{500\text{ UL}} \times \frac{1.0\text{ML}}{0.985\text{ML}} \times \frac{1.0}{1.0} = 2.030$$

0.9 2.03 ✓

COMPOUND LIST NO. - 177

COMPUCHEM # 85003 DATE

IDENTIFIER PESTICIDES (LOW LEVEL SOLID)

DIL FACT_____DRY WT_____ _30__SPLIT_____FINAL VOL_____/5 = 2.29

AMT SAMPLE_____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/kg
1.	0701	ALDRIN		8.0
E.	0702	ALPHA-BHC		8.0
3.	0703	BETA-BHC		8.0
4.	0704	GAMMA-BHC		8.0
5.	0705	DELTA-BHC		8.0
6.	0706	TECHNICAL CHLORDANE		80.0
7.	0707	4,4'-DDT		16.0
8.	0708	4,4'-DDE		16.0
9.	0709	4,4'-DDD		16.0
10.	0710	DIELDRIN	54	16.0
11.	0711	ENDOSULFAN I		8.0
12.	0712	ENDOSULFAN II		16.0
13.	0713	ENDOSULFAN SULFATE		16.0
14.	0714	ENDRIN		16.0
15.	0739	ENDRIN KETONE		16.0
16.	0716	HEPTACHLOR		8.0
17.	0717	HEPTACHLOR EPOXIDE	20	8.0
18.	0726	METHOXYCHLOR		80.0
19.	0724	AROCHLOR 1016		80.0
20.	0720	AROCHLOR 1221		80.0
21.	0721	AROCHLOR 1232		80.0
22.	0718	AROCHLOR 1242		80.0
23.	0722	AROCHLOR 1248		80.0
24.	0719	AROCHLOR 1254		160.0
25.	0723	AROCHLOR 1260		160.0
26.	0725	TOXAPHENE		160.0

BDL

BDL

ANALYST'S COMMENTS:

DDE does not elute on the mixed column.

DPM

Dieldrin + Heptachlor epoxide not reported due to client requests.

GC SCREEN DATA SHEET

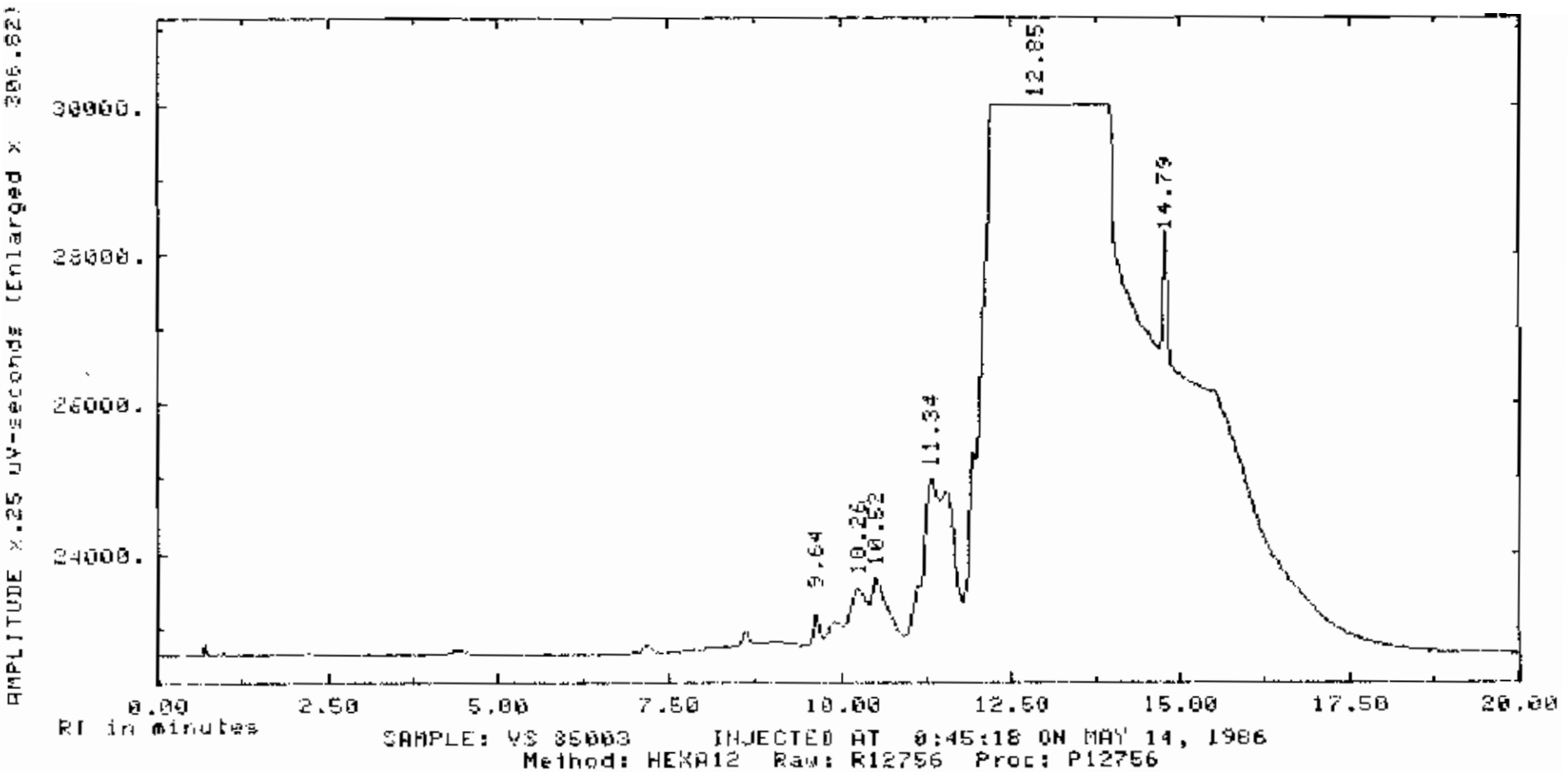
Laboratory Name CompuChem

Case Number URS WEST

Sample ID Number	Fraction	GC Detectable* Medium Level	Date of Screen	Level of GC/MS Analysis**
G-SEDIMENT	VOA	ND	5/14/86	L
	B/N/A	ND	5/16/86	L
	Pesticides			
46003	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			

*Answer Yes or No

**Indicate "M" for Medium Level GC/MS analysis.
Indicate "L" for Low Level GC/MS analysis.


AMPLITUDE x.25 uV-seconds (Enlarged x 396.82)
30000.
28000.
26000.
24000.
12.85
14.79
11.34
9.64
10.26
10.52
0.00
2.50
5.00
7.50
10.00
12.50
15.00
17.50
20.00
RT in minutes
SAMPLE: VS 85003 INJECTED AT 0:45:18 ON MAY 14, 1986
Method: HEXA12 Raw: R12756 Proc: P12756

Report: 105.06 Channel: 12

Sample: VS B5063 Injected at 0:45.18 ON MAY 14, 1986

ZERO Method: HEXA12 Seq: SEQ127 Subsq/Samp: 1/56 Rtl: 56

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	100	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 20.017 minutes

Signal > 1 volt

RT	ITM	Factor	Area		AREA %	Name
9.64	0.00	.10000E+01	683.	BB	6.823	
10.26	0.00	.10000E+01	1466.	BB	14.636	
10.52	0.00	.10000E+01	2715.	BV	27.109	
11.34	0.00	.10000E+01	1812.	VB	18.086	
12.85	0.00	.10000E+01	0.	BS	0.000	
14.79	0.00	.10000E+01	3340.	VB	33.347	

Total Area = 10016. Total AREA % = 3340.063

Processed data file: P12756 Raw data file: R12756

PLIST7

SCREEN WORKSHEET

Compound # 85003

Sample Prep Code 153

Instrument Code 122

ANALYSIS INFORMATION

Date	Inst	File Name	Dilution Fact.
5/16	6	P6384	1

COMMENT:

Analyst 865 Date 5/16/86

RESULTS

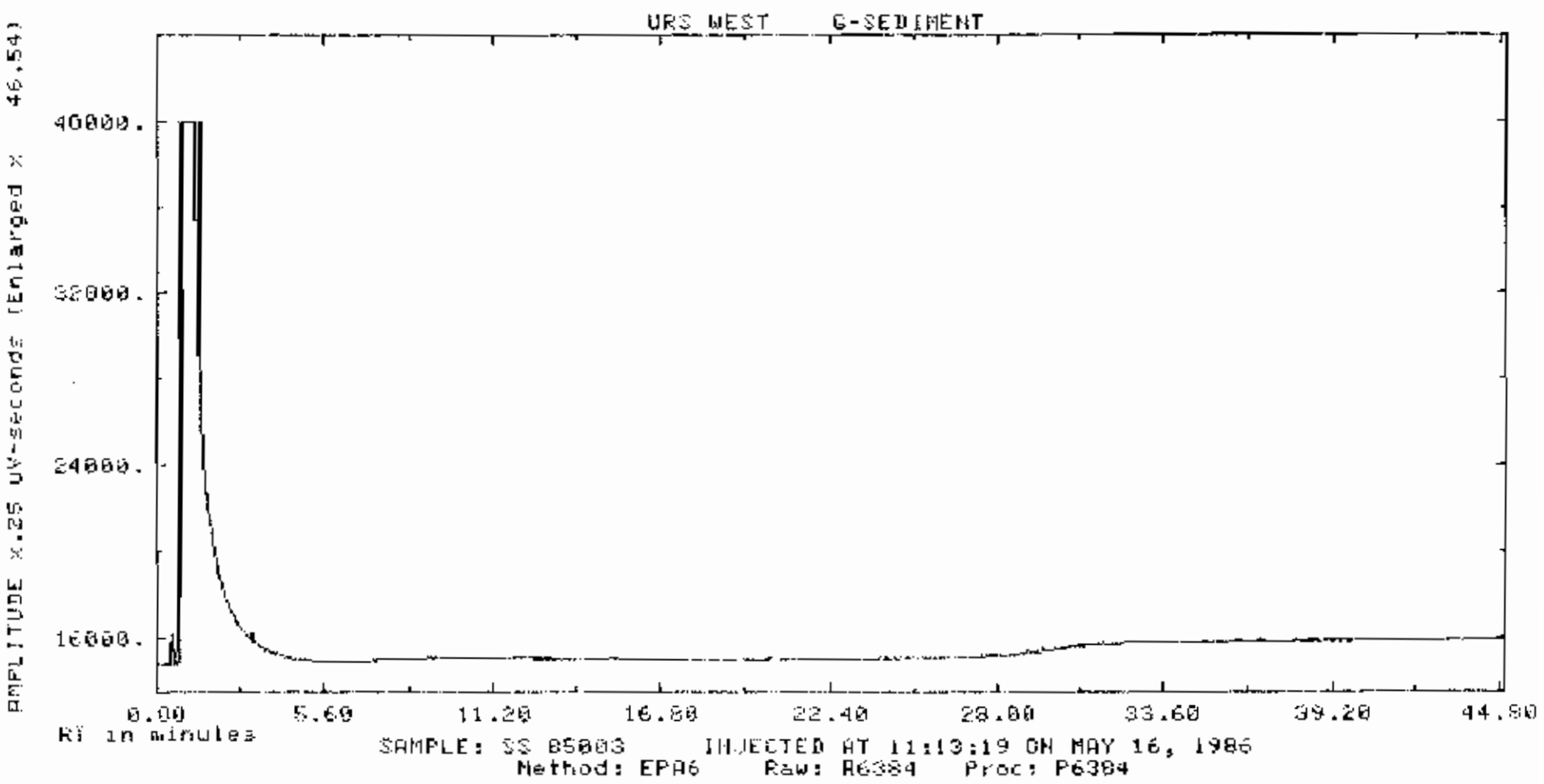
Area of 50ng Phenanthrene 66047

Area of Largest peak in sample 0

Phenanthrene / Largest Peak = ∞

1 X Ratio > 5.0 Analyze low level extract
Suggested dilution for GC/MS analysis 1:___ (up to 1:5)

1 _ Ratio < 5.0 Prepare medium level extract
Schedule Analysis code 380 and 384
Suggested dilution for GC/MS analysis 1:___


URS WEST G-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 46.54)
40000.
32000.
24000.
16000.
0.00
5.60
11.20
16.80
22.40
28.00
33.60
39.20
44.80
RT in minutes
SAMPLE: SS 85003 INJECTED AT 11:13:19 ON MAY 16, 1986
Method: EPA6 Raw: R6384 Proc: P6384

Report: 94.00 Channel: 6 URS WEST G-SEDIMENT

Sample: SS B5003 Injected at 11:13:19 ON MAY 16, 1984

ZERO Method: EPA6 Seq: SEQ63 Subsq/Samp: 1/84 Bli: 84

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.250	.300	3.08	1000	

Sup-Unk	DvT	ID-Lvl	Ref-RTw	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 45.008 minutes

No peaks integrated

RT	ITM	Factor	Area	AREA %	Name

Total Area = 0. Total AREA % = 0.000

Processed data file: P6304 Raw data file: R6384

III. SAMPLE DATA PACKAGE

7

CASE NO. URS ~~WEST~~ May 1986

SAMPLE NO. H-SEDIMENT = COMPUCHEM NO. 86004
Site No. 7

A. Sample data in increasing SMO Number order:

1. Copy of Sample Traffic Report
2. HSL Results — Organic Analysis Data Sheet (Form I)
3. GC/MS tentative ID (Form I, Part B) — Must be included even if no compounds are found.
4. Raw Data — in order: VOA, BNA, Pesticide

1. Copy of Sample Traffic Report

2. HSL Results — Organic Analysis Data Sheets (Form I)

Sample Number
H-SEDIMENT

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: CompuChem
Lab Sample ID No: BH085004B1B
Sample matrix: solid
Data Release
Authorized By: _____

Case: URS WEST
QC Report No: _____
Contract No: PLATINUM
Date Sample
Received: 05-12-86

Volatile Compounds
Concentration: low
Date extracted/prepared: 05-13-86
Date analyzed: 05-15-86
Conc/Dil Factor: 3.76 pH: 7.63
Percent moisture (not decanted): 74%

CAS Number		ug/kg		CAS Number		ug/kg	
74-87-3	Chloroethane	38.	U	10061-02-6	trans-1,3-Dichloropropene	19.	U
74-83-9	Bromomethane	38.	U	79-01-6	Trichloroethene	19.	U
75-01-4	Vinyl Chloride	38.	U	124-48-1	Dibromochloromethane	19.	U
75-00-3	Chloroethane	38.	U	79-00-5	1,1,2-Trichloroethane	19.	U
* 75-09-2	Methylene Chloride	52.		71-43-2	Benzene	19.	U
* 67-64-1	Acetone	43.	B	10061-01-5	cis-1,3-Dichloropropene	19.	U
75-15-0	Carbon Disulfide	19.	U	110-75-8	2-Chloroethyl Vinyl Ether	38.	U
75-35-4	1,1-Dichloroethene	19.	U	75-25-2	Bromoform	19.	U
75-34-3	1,1-Dichloroethane	19.	U	108-10-1	4-Methyl-2-pentanone	38.	U
156-60-5	trans-1,2-Dichloroethene	19.	U	591-78-6	2-Hexanone	38.	U
67-66-3	Chloroform	19.	U	127-18-4	Tetrachloroethene	19.	U
107-06-2	1,2-Dichloroethane	19.	U	79-34-5	1,1,2,2-Tetrachloroethane	19.	U
78-93-3	2-Butanone	38.	U	108-88-3	Toluene	19.	U
71-55-6	1,1,1-Trichloroethane	19.	U	108-90-7	Chlorobenzene	19.	U
56-23-5	Carbon Tetrachloride	19.	U	100-41-4	Ethyl Benzene	19.	U
108-05-4	Vinyl Acetate	38.	U	100-42-5	Styrene	19.	U
75-27-4	Bromodichloromethane	19.	U		Total Xylenes	19.	U
78-87-5	1,2-Dichloropropane	19.	U				

DATA REPORTING QUALIFIERS

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

Value If the result is a value greater than or equal to the detection limit then report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J). If limit of detection is 10ug and a concentration of 3ug is calculated, then report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >/= 10ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

* Laboratory Name: CompuChem
Case : URS WEST

Sample Number
M-SEDIMENT

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low
Date extracted/prepared: 05-13-86
Date analyzed: 05-20-86
Conc/Dil Factor: 127.00
Percent moisture (decanted): 74%

GPC Cleanup: No
Separatory Funnel Extraction: Yes
Continuous Liquid - Liquid Extraction: No

	CAS Number		ug/kg		CAS Number		ug/kg		
X	108-95-2	Phenol	140	J	83-32-9	Acenaphthene	1300	U	
	111-44-4	bis(2-Chloroethyl) ether	1300	U	51-28-5	2,4-Dinitrophenol	6400	U	
	95-57-8	2-Chlorophenol	1300	U	100-02-7	4-Nitrophenol	6400	U	
	541-73-1	1,3-Dichlorobenzene	1300	U	132-64-9	Dibenzofuran	1300	U	
	106-46-7	1,4-Dichlorobenzene	1300	U	121-14-2	2,4-Dinitrotoluene	1300	U	
	100-51-6	Benzyl Alcohol	1300	U	606-20-2	2,6-Dinitrotoluene	1300	U	
	95-50-1	1,2-Dichlorobenzene	1300	U	84-66-2	Diethylphthalate	180	J	*
	95-48-7	2-Methylphenol	1300	U	7005-72-3	4-Chlorophenyl Phenyl ether	1300	U	
	39638-32-9	bis(2-Chloroisopropyl) ether	1300	U	86-73-7	Fluorene	1300	U	
X	106-44-5	4-Methylphenol	2000		100-01-6	4-Nitroaniline	6400	U	
	621-64-7	N-Nitroso-Dipropylamine	1300	U	534-52-1	4,6-Dinitro-2-methylphenol	6400	U	
	67-72-1	Hexachloroethane	1300	U	86-30-6	N-nitrosodiphenylamine (1)	1300	U	
	98-95-3	Nitrobenzene	1300	U	101-55-3	4-Bromophenyl Phenyl ether	1300	U	
	78-59-1	Isophorone	1300	U	118-74-1	Hexachlorobenzene	1300	U	
	88-75-5	2-Nitrophenol	1300	U	87-86-5	Pentachlorophenol	6400	U	
	105-67-9	2,4-Dimethylphenol	1300	U	85-01-8	Phenanthrene	1100	J	*
X	65-85-0	Benzoic Acid	460	J	120-12-7	Anthracene	250	J	*
	111-91-1	bis(2-Chloroethoxyl methane	1300	U	84-74-2	Di-n-butylphthalate	1300	U	
	120-83-2	2,4-Dichlorophenol	1300	U	206-44-0	Fluoranthene	2400		*
	120-82-1	1,2,4-Trichlorobenzene	1300	U	129-00-0	Pyrene	1900		*
	91-20-3	Naphthalene	1300	U	85-68-7	Butyl Benzyl Phthalate	1300	U	
	106-47-8	4-Chloroaniline	1300	U	91-94-1	3,3'-Dichlorobenzidine	2500	U	
	87-68-3	Hexachlorobutadiene	1300	U	56-55-3	Benzo(a)anthracene	1900	J	*
	59-50-7	4-Chloro-3-methylphenol	1300	U	117-81-7	bis(2-ethylhexyl)phthalate	580	J	*
	91-57-6	2-Methylnaphthalene	1300	U	218-01-9	Chrysene	1400		*
	77-47-4	Hexachlorocyclopentadiene	1300	U	117-84-0	Di-n-octyl Phthalate	1300	U	
	88-06-2	2,4,6-Trichlorophenol	1300	U	205-99-2	Benzo(b)fluoranthene	2200		*
	95-95-4	2,4,5-Trichlorophenol	6400	U	207-08-9	Benzo(k)fluoranthene	2200		*
	91-58-7	2-Chloronaphthalene	1300	U	50-32-8	Benzo(a)pyrene	1200	J	*
	88-74-4	2-Nitroaniline	6400	U	193-39-5	Indeno(1,2,3-cd)pyrene	580	J	*
	131-11-3	Dimethyl Phthalate	1300	U	53-70-3	Dibenz(a,h)anthracene	1300	U	
	208-96-8	Acenaphthylene	1300	U	191-24-2	Benzo(g,h,i)perylene	1300	U	
	99-09-2	3-Nitroaniline	6400	U					

(1) Cannot be separated from diphenylamine

Sample Number
H-SED1MEN

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: [Low] Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Data Analyzed: 05/22/86
Conc/Dil Factor: 3.74

CAS Number		ug/l or [ug/Kg] (Circle One)	
319-84-6	Alpha - BHC	30.	U
319-85-7	Beta - BHC	30.	U
319-86-8	Delta - BHC	30.	U
58-89-9	Gamma - BHC(Lindane)	30.	U
76-44-8	Heptachlor	30.	U
309-00-2	Aldrin	30.	U
1024-57-3	Heptachlor Epoxide	30.	U
959-98-8	Endosulfan I	30.	U
60-57-1	Dieldrin	60.	U
72-55-9	4-4' - DDE	60.	U
72-20-8	Endrin	60.	U
33213-65-9	Endosulfan II	60.	U
72-54-8	4-4' - DDD	60.	U
1031-07-8	Endosulfan Sulfate	60.	U
50-29-3	4-4' - DDT	60.	U
72-43-5	Methoxychlor	300	U
53494-70-5	Endrin Ketone	60.	U
57-74-9	Chlordane	300	U
8001-35-2	Toxaphene	600	U
12674-11-2	Aroclor - 1016	300	U
11104-28-2	Aroclor - 1221	300	U
11141-16-5	Aroclor - 1232	300	U
53469-21-9	Aroclor - 1242	300	U
12672-29-6	Aroclor - 1248	300	U
11097-69-1	Aroclor - 1254	600	U
11096-82-5	Aroclor - 1260	600	U

V(i) = Volume of extract injected (ul)
V(s) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(s) _____ or W(s) 30.69 V(t) 2000.00 V(i) 1.0

Sample Number
H-SEDIMEN

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: [Low] Medium (Circle One)
Date Extracted/Prepared: 05/13/86
Date Analyzed: 05/16/86
Conc/Dil Factor: 3.74

CAS Number		ug/l or [ug/Kg] (Circle One)	
319-84-6	Alpha - BHC	30.	U
319-85-7	Beta - BHC	30.	U
319-86-8	Delta - BHC	30.	U
58-89-9	Gamma - BHC(Lindane)	30.	U
76-44-8	Heptachlor	30.	U
309-00-2	Aldrin	30.	U
1024-57-3	Heptachlor Epoxide	30.	U
959-98-8	Endosulfan I	30.	U
60-57-1	Dieldrin	60.	U
72-55-9	4-4' - DDE	60.	U
72-20-8	Endrin	60.	U
33213-65-9	Endosulfan II	60.	U
72-54-8	4-4' - DDD	60.	U
1031-07-8	Endosulfan Sulfate	60.	U
50-29-3	4-4' - DDT	60.	U
72-43-5	Methoxychlor	300	U
53494-70-5	Endrin Ketone	60.	U
57-74-9	Chlordane	300	U
8001-35-2	Toxaphene	600	U
12674-11-2	Aroclor - 1016	300	U
11104-28-2	Aroclor - 1221	300	U
11141-16-5	Aroclor - 1232	300	U
53469-21-9	Aroclor - 1242	300	U
12672-29-6	Aroclor - 1248	300	U
11097-69-1	Aroclor - 1254	600	U
11096-82-5	Aroclor - 1260	600	U

V(i) = Volume of extract injected (ul)
V(s) = Volume of water extracted (ml)
W(s) = Weight of sample extracted (g)
V(t) = Volume of total extract (ul)

V(s) _____ or W(s) 30.69 V(t) 2000.00 V(i) 5.0

3. GC/MS Tentative ID (Form I, Part B)

(Form I, Part B must be included even if no compounds are found. If so, indicate on form: "No volatile compounds found" and/or "no semi-volatile compounds found")

Laboratory Name CompuChem Laboratories

Case No URS WEST

Sample Number
H-SEDIMENT

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		NO VOLATILE COMPOUNDS FOUND			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

SAMPLE NUMBER N SEO.

ORGANICS ANALYSIS DATA SHEET (PAGE 4) COMPUCHEM FILE GN085004C15

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)
1	625-06-9	2-PENTANOL, 2,4-DIMETHYL- (acetone contaminant)	SEMI2	310	~~3500.~~ 13000 B
2	141-82-2	PROPANEDIOIC ACID (unknown)	SEMI2	329	~~4000.~~ J 15000
3	142-62-1	HEXANOIC ACID (")	SEMI2	355	~~1100.~~ J 4200
~~4~~	~~103-82-2~~	~~BENZENEACETIC ACID~~ (cyclic HC)	~~SEMI2~~	~~500~~	~~620. J~~
~~5~~	~~1121-66-0~~	~~2-CYCLOHEPTEN-1-ONE~~ (D3 omit)	~~SEMI2~~	~~732~~	~~790. J~~
~~6~~ 4	544-63-8	TETRADECANOIC ACID (HC)	SEMI2	842	~~1200.~~ J 4600
~~7~~	~~613-12-7~~	~~ANTHRACENE, 2-METHYL-~~ (unknown)	~~SEMI2~~	~~919~~	~~570. J~~
~~8~~ 5	57-10-3	HEXADECANOIC ACID (HC)	SEMI2	927	~~3500.~~ J 38000
~~9~~	~~14813-85-5~~	~~2H-BENZIMIDAZOL-2-ONE, 1,3-DIHYDRO-1-PHENYL-~~ (unknown)	~~SEMI2~~	~~942~~	~~380. J~~
~~10~~ 6	112-80-1	9-OCTADECENOIC ACID (Z)- (HC)	SEMI2	995	~~5100.~~ J 20000
~~11~~	~~629-99-2~~	~~PENTACOSANE~~ (HC)	~~SEMI2~~	~~1048~~	~~740. J~~
~~12~~ 7	74685-30-6	5-EICOSENE, (E)- (unknown)	SEMI2	1111	~~2300.~~ J 8800.
~~13~~	~~36482-24-3~~	~~6H-DIBENZO[B,D]PYRAN-1-OL, 3-HEXYL-6A,7,8,10A-TETRAH~~ (PP omit)	~~SEMI2~~	~~1132~~	~~610. J~~

~~33,200~~ 40.00

1

SPECTROSCOPIST [signature]

DATE 05/20/86

SAMPLE NUMBER H SED.

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

COMPUCHEM FILE GH085004C15

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)	
~~14~~ 8	629-99-2	PENTACOSANE HC	SEMI2	1143	~~1100.~~	J 4200.
~~15~~ 9	638-66-4	OCTADECANAL HC	SEMI2	1155	~~700.~~	J 3000.
~~16~~ 10	544-85-4	DOTRIACONTANE unknown	SEMI2	1161	~~1400.~~	J 5400.
~~17~~ 11	2490-48-4	1-HEXADECANOL, 2-METHYL- HC	SEMI2	1173	~~5700.~~	J 22000
~~18~~ 12	629-99-2	PENTACOSANE HC	SEMI2	1206	~~1400.~~	J 5400
~~19~~ 13	638-66-4	OCTADECANAL HC	SEMI2	1222	~~1400.~~	J 5400.
~~20~~	~~50-32-8~~	BENZO[A]PYRENE PP omit	SEMI2	1234	~~550.~~	J
~~21~~ 14	2490-48-4	1-HEXADECANOL, 2-METHYL- HC	SEMI2	1246	~~8000.~~	J 31000
~~22~~	~~2310-36-3~~	A-HOMOCHOLESTAN-2-ONE, (5.ALPHA.)- unknown	SEMI2	1256	~~730.~~	J
~~23~~ 15	643-56-1	7H-1-BENZOPYRAN-7-ONE, 5-METHOXY-6-METHYL-2-PHENYL- "	SEMI2	1311	~~960.~~	J 3700.
~~24~~ 16	629-99-2	PENTACOSANE HC	SEMI2	1346	~~2500.~~	J 9600.
~~25~~	~~7683-64-9~~	2,6,10,14,18,22-TETRACOSAHEXAENE, 2,6,10,15,19,23-HE unknown	SEMI2	1372	~~410.~~	J
~~26~~ 17	57-88-5	CHOLEST-5-EN-3-OL (3.BETA.)- "	SEMI2	1399	~~2600.~~	J 10000

~~33-208~~ 127 40.00

SPECTROSCOPIST Lgarber

DATE 05/21/86

SAMPLE NUMBER H SED.

ORGANICS ANALYSIS DATA SHEET (PAGE 4)

COMPUCHEM FILE GH085004C15

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NUMBER	COMPOUND NAME	FRACTION	SCAN NUMBER	ESTIMATED CONC. (UG/L OR UG/KG)		
22	474-67-9	ERGOSTA-5,22-DIEN-3-OL, (3.BETA.,22E)- (unknown)	SEMI2	1433	~~800.~~	J	3/0
28	57-87-4	ERGOSTA-5,7,22-TRIEN-3-OL, (3.BETA.,22E)- "	SEMI2	1461	~~1400.~~	J	5/00
29	4651-51-9	ERGOST-5-EN-3-OL, (3.BETA.)-	SEMI2	1480	~~1200.~~	J	4/0
30	83-48-7	STIGMASTA-5,22-DIEN-3-OL, (3.BETA.,22E)-	SEMI2	1505	~~1600.~~	J	6/0

~~33.200~~ 40.00
127.

SPECTROSCOPIST Lynden

DATE 5/20/86

4. Raw Data — in order: VOA, BNA, Pesticides

a. Reconstructed ion chromatogram(s) (GC/MS), chromatograms(s) (GC)

b. Data System Printout

- Quantitation report or legible facsimile (GC/MS)
- Integration report of data system printout (GC)
- Calibration plots (area vs. Concentration) for 4,4'-DDT, 4,4'-DDD, 4,4'-DDE, or taxaphene (where appropriate)

c Raw HSL mass spectra and the background subtracted HSL mass spectra with lab generated HSL standard section (Dual Display)

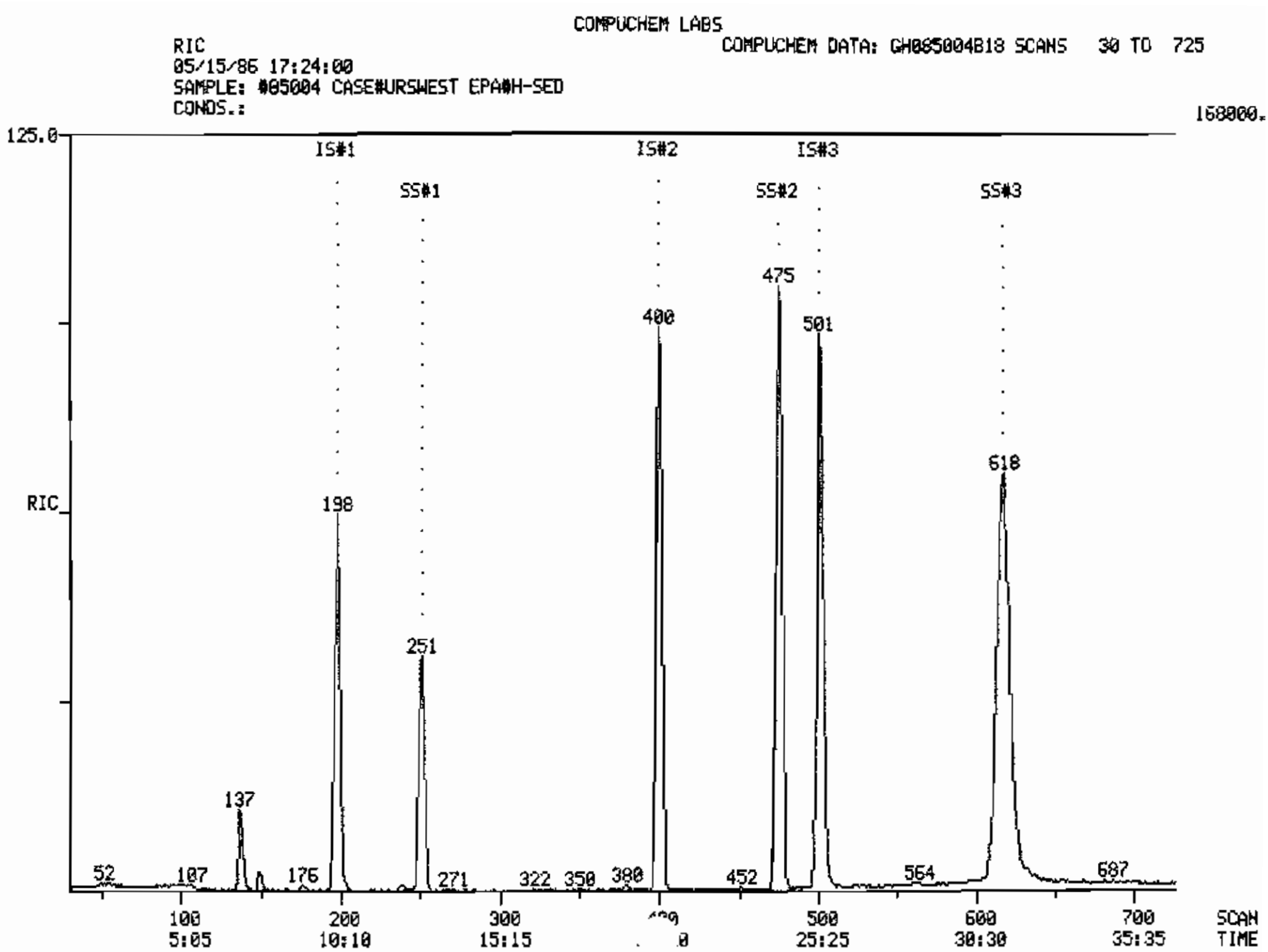
c GC/MS library search spectra for Tentatively Identified Compounds (T.C.

e Quantitation Calculation of tentative ID concentrations

f Work Sheets

- Analysis
- Extraction
- Compound Lists
- Miscellaneous Calculation Sheets

g Screening chromatogram(s) and GPC chromatogram(s) — if applicable


COMPUCHEM LABS
RIC
COMPUCHEM DATA: GH085004B18 SCANS 30 TO 725
05/15/86 17:24:00
SAMPLE: #05004 CASE#URSWEST EPA#H-SED
CONDS.:
168000.
125.0
RIC
IS#1
IS#2
IS#3
SS#1
SS#2
SS#3
198
251
400
475
501
618
137
52
107
176
271
322
350
380
452
564
687
100
5:05
200
10:10
300
15:15
500
25:25
600
30:30
700
35:35
SCAN
TIME

METHOD: E238 FILENAME: GH085004B18 DATE: 05/15/86
SHIFT STD: GTB60515A18 TIME: 17:24

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1	49219.	56744.	-13.	PASS
*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E6#1	204781.	241821.	-15.	PASS
*270 D5-CHLOROBENZENE (IS)	184881.	236805.	-22.	PASS

```
DATA: GH085004B18.TI
05/15/86 17:24:00
  MPLE: #85004 CASE#URSWEST EPA#H-9ED
  NDS. :
SUBMITTED BY: 18            ANALYST: 941

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

 NO  NAME
  1  #234 BROMOCHLOROMETHANE (IS) <75-97-5> E5#1
  2   221 CHLOROMETHANE <75-01-4> E5#2
  3   220 BROMOMETHANE <78-83-9> E5#3
  4   231 VINYL CHLORIDE <75-01-4> E5#4
  5   209 CHLOROETHANE <75-00-3> E5#5
  6   222 METHYLENE CHLORIDE <75-09-2> E5#6
  7   252 ACETONE (2-PROPANONE) <67-64-1> E5#7
  8   254 CARBON DISULFIDE <75-15-0> E5#8
  9   216 1,1-DICHLOROETHYLENE <75-35-4> E5#9
 10   214 1,1-DICHLOROETHANE <75-34-3> E5#10
 11   226 TRANS-1,2-DICHLOROETHYLENE <156-60-5> E5#11
 12   211 CHLOROFORM <67-66-3> E5#12
 13   215 1,2-DICHLOROETHANE <107-06-2> E5#13
 14  #248 1,4-DIFLUOROBENZENE (IS) <540-36-3> E6#1
 15   253 2-BUTANONE <78-93-3> E6#2
 16   227 1,1,1-TRICHLOROETHANE <71-55-6> E6#3
 17   206 CARBON TETRACHLORIDE <56-23-5>
 18   257 VINYL ACETATE <108-05-4> E6#5
  ?   212 BROMODICHLOROMETHANE <75-27-4> E6#6
  .0  217 1,2-DICHLOROPROPANE <78-87-5> E6#7
 21   250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> E6#8
 22   229 TRICHLOROETHYLENE <79-01-6> E6#9
 23   208 CHLORODIBROMOMETHANE <124-48-1> E6#10
 24   228 1,1,2-TRICHLOROETHANE <79-00-5> E6#11
 25   203 BENZENE <71-43-2> E6#12
 26   218 CIS-1,3-DICHLOROPROPENE <10061-01-5> E6#13
 27   210 2-CHLOROETHYL VINYL ETHER <110-75-8> E6#14
 28   205 BROMOFORM <75-25-2> E6#15
 29  #270 D5-CHLOROBENZENE (IS)
 30   256 4-METHYL-2-PENTANONE <108-10-1> E7#2
 31   255 2-HEXANONE <591-78-6> E7#3
 32   224 TETRACHLOROETHENE <127-18-4> E7#4
 33   223 1,1,2,2-TETRACHLOROETHANE <79-34-5> E7#5
 34   225 TOLUENE <108-88-3> E7#6
 35   207 CHLOROBENZENE <108-90-7> E7#7
 36   219 ETHYLBENZENE <100-41-4> E7#8
 37   251 STYRENE <100-42-5> E7#9
 38   240 M-XYLENE E7#10
 39   271 O,P-XYLENE E7#11
 40  #258 D4-1,2-DICHLOROETHANE E8#2
 41  #247 BROMOFLUOROBENZENE <460-00-4> E8#3
 42  #233 D8-TOLUENE E8#4

 NO  M/E  SCAN   TIME  REF   RRT  METH     AREA(HGHT)  AMOUNT          %TOT
  1  128   198  10:04   1  1.000  A BB       49219.    50.000 UG/KG  15.26
  2   50  NOT FOUND
```

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		XTOT
3	94	NOT FOUND								
4	62	NOT FOUND								
5	64	NOT FOUND								
6	84	137	6:58	1	0.692	A BB	14118.	13.885	UG/KG	4.24
7	43	150	7:37	1	0.758	A BB	3749.	11.546	UG/KG	3.52
8	76	NOT FOUND								
9	96	NOT FOUND								
10	63	NOT FOUND								
11	96	NOT FOUND								
12	83	NOT FOUND								
13	62	NOT FOUND								
14	114	400	20:20	14	1.000	A BB	204781.	50.000	UG/KG	15.26
15	72	NOT FOUND								
16	97	NOT FOUND								
17	117	NOT FOUND								
18	43	NOT FOUND								
19	83	NOT FOUND								
20	63	NOT FOUND								
21	75	NOT FOUND								
22	130	NOT FOUND								
23	129	NOT FOUND								
24	97	NOT FOUND								
25	78	NOT FOUND								
26	75	NOT FOUND								
27	63	NOT FOUND								
28	173	NOT FOUND								
29	117	501	25:28	29	1.000	A BV	184881.	50.000	UG/KG	15.26
30	43	NOT FOUND								
31	43	NOT FOUND								
32	164	NOT FOUND								
33	83	NOT FOUND								
34	92	NOT FOUND								
35	112	NOT FOUND								
36	106	NOT FOUND								
37	104	NOT FOUND								
38	106	NOT FOUND								
39	106	NOT FOUND								
40	65	251	12:46	1	1.268	A BV	73900.	48.407	UG/KG	14.77
41	95	617	31:22	29	1.232	A BB	150525.	51.618	UG/KG	15.75
42	98	475	24:09	1	2.399	A BB	194095.	52.240	UG/KG	15.94

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	9:49	1.03	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:35		10.000			50.00		0.686	
3	2:32		10.000			50.00		1.194	
4	3:18		10.000			50.00		0.685	
5	4:13		10.000			50.00		0.440	
6	6:27	1.08	5.000	0.14	13.88	50.00	0.287	1.033	0.28
7	7:07	1.07	10.000	0.08	11.55	50.00	0.076	0.330	0.23
8	8:05		5.000			50.00		2.315	
9	9:21		5.000			50.00		0.916	
10	10:40		5.000			50.00		1.553	
11	11:23		5.000			50.00		1.033	
12	12:00		5.000			50.00		2.214	
13	12:46		5.000			50.00		1.623	
14	20:26	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00

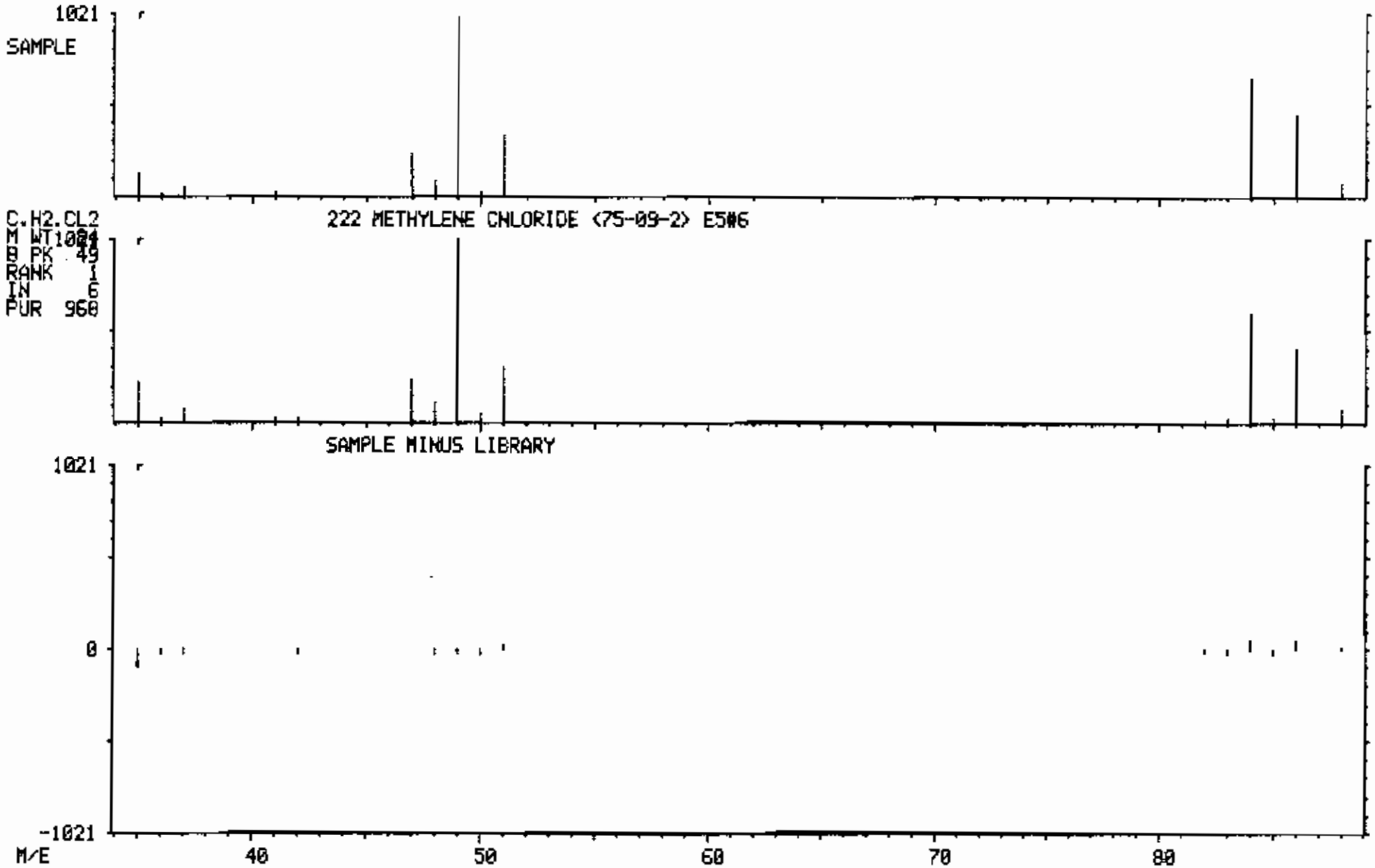
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	12:39		10.000			50.00		0.027	
16	14:05		5.000			50.00		0.463	
17	14:29		5.000			50.00		0.603	
18	14:38		10.000			50.00		0.274	
19	15:00		5.000			50.00		0.527	
20	16:25		5.000			50.00		0.279	
21	16:40		5.000			50.00		0.405	
22	17:14		5.000			50.00		0.440	
23	17:54		5.000			50.00		0.612	
24	18:00		5.000			50.00		0.299	
25	17:47		5.000			50.00		0.662	
26	18:00		5.000			50.00		0.303	
27	19:07		10.000			50.00		0.193	
28	20:38		5.000			50.00		0.486	
29	25:34	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	21:09		10.000			50.00		0.483	
31	22:46		10.000			50.00		0.351	
32	23:05		5.000			50.00		0.459	
33	23:02		5.000			50.00		0.547	
34	24:27		5.000			50.00		0.525	
35	25:43		5.000			50.00		0.839	
36	28:13		5.000			50.00		0.421	
37	33:36		5.000			50.00		1.006	
38	34:00		5.000			50.00		0.637	
39	35:23		5.000			100.00		0.611	
40	12:39	1.01	10.000	0.13	48.41	50.00	1.501	1.551	0.97
41	31:34	0.99	10.000	0.12	51.62	50.00	0.814	0.789	1.03
42	24:15	1.00	10.000	0.24	52.24	50.00	3.943	3.774	1.04

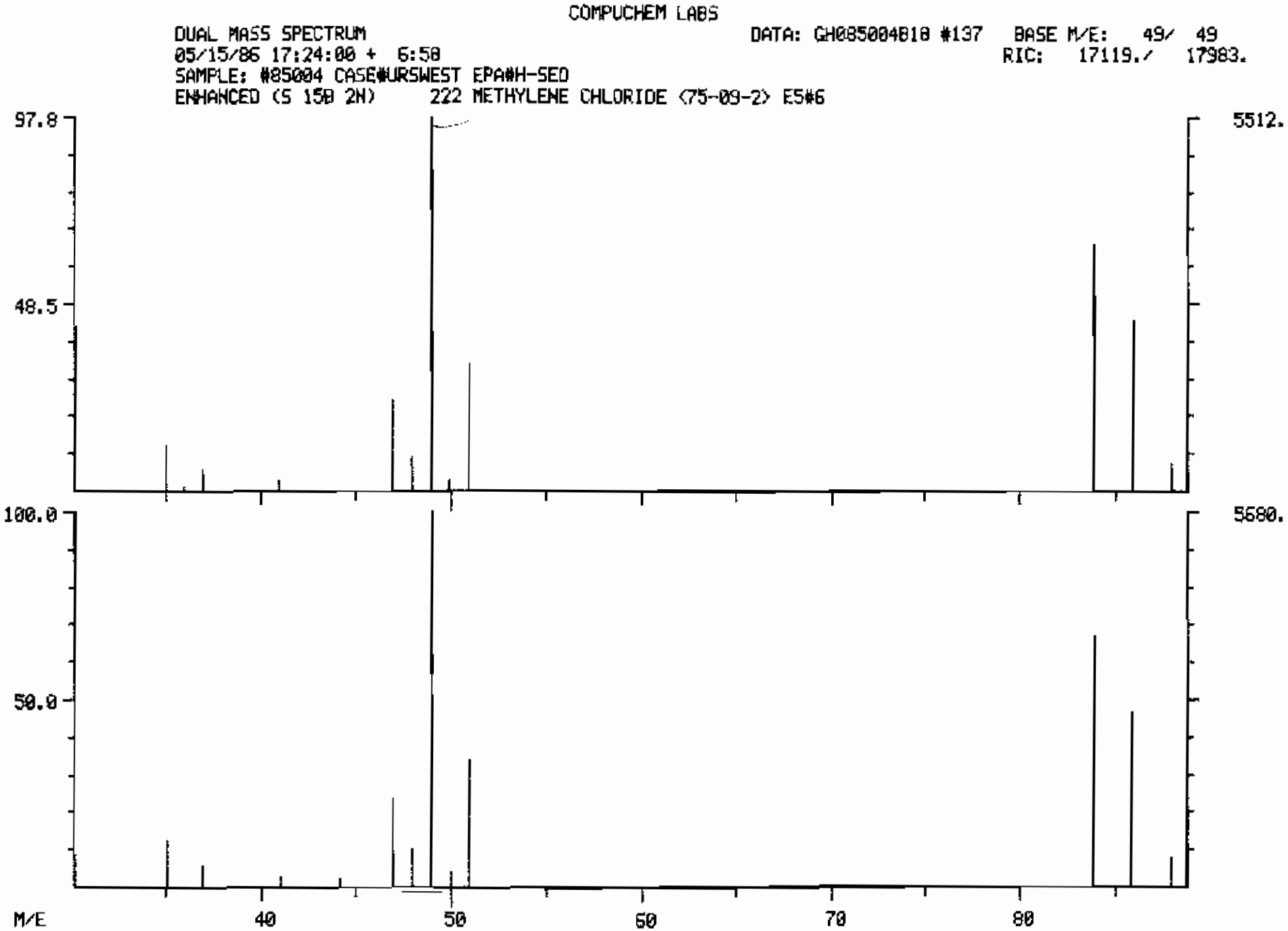
COMPUCHEM LABS

LIBRARY SEARCH
05/15/86 17:24:00 + 6:58
SAMPLE: #85004 CASE#URSWEST EPA#H-SED
ENHANCED (S 15B 2N 0T)

DATA: GH005804018 # 137

BASE M/E: 49
RIC: 1711B.



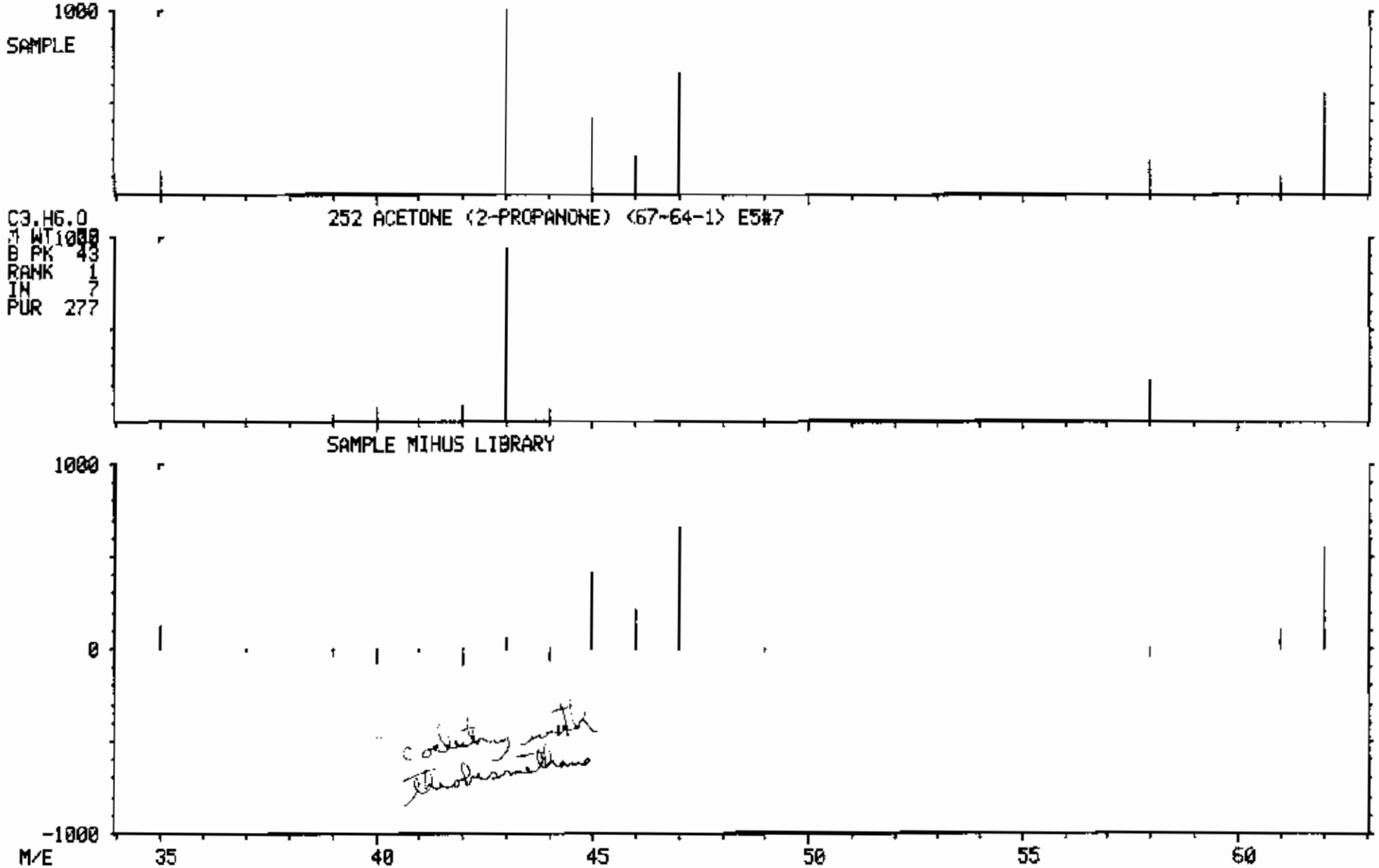

COMPUCHEM LABS
DUAL MASS SPECTRUM
05/15/86 17:24:00 + 6:50
SAMPLE: #85004 CASE#URSWEST EPA#H-SED
ENHANCED (S 150 2N)
DATA: GH085004B10 #137
BASE M/E: 49/ 49
RIC: 17119./ 17983.
222 METHYLENE CHLORIDE (75-09-2) E5#6
97.8
48.5
5512.
100.0
50.0
5680.
M/E
40
50
60
70
80

COMPUCHEM LABS

LIBRARY SEARCH
05/15/86 17:24:00 + 7:37
SAMPLE: #85004 CASE#URSWEST EPA#H-SED
ENHANCED (S 15B 2N 0T)

DATA: GH085004B18 # 150

BASE M/E: 43
RIC: 3667.

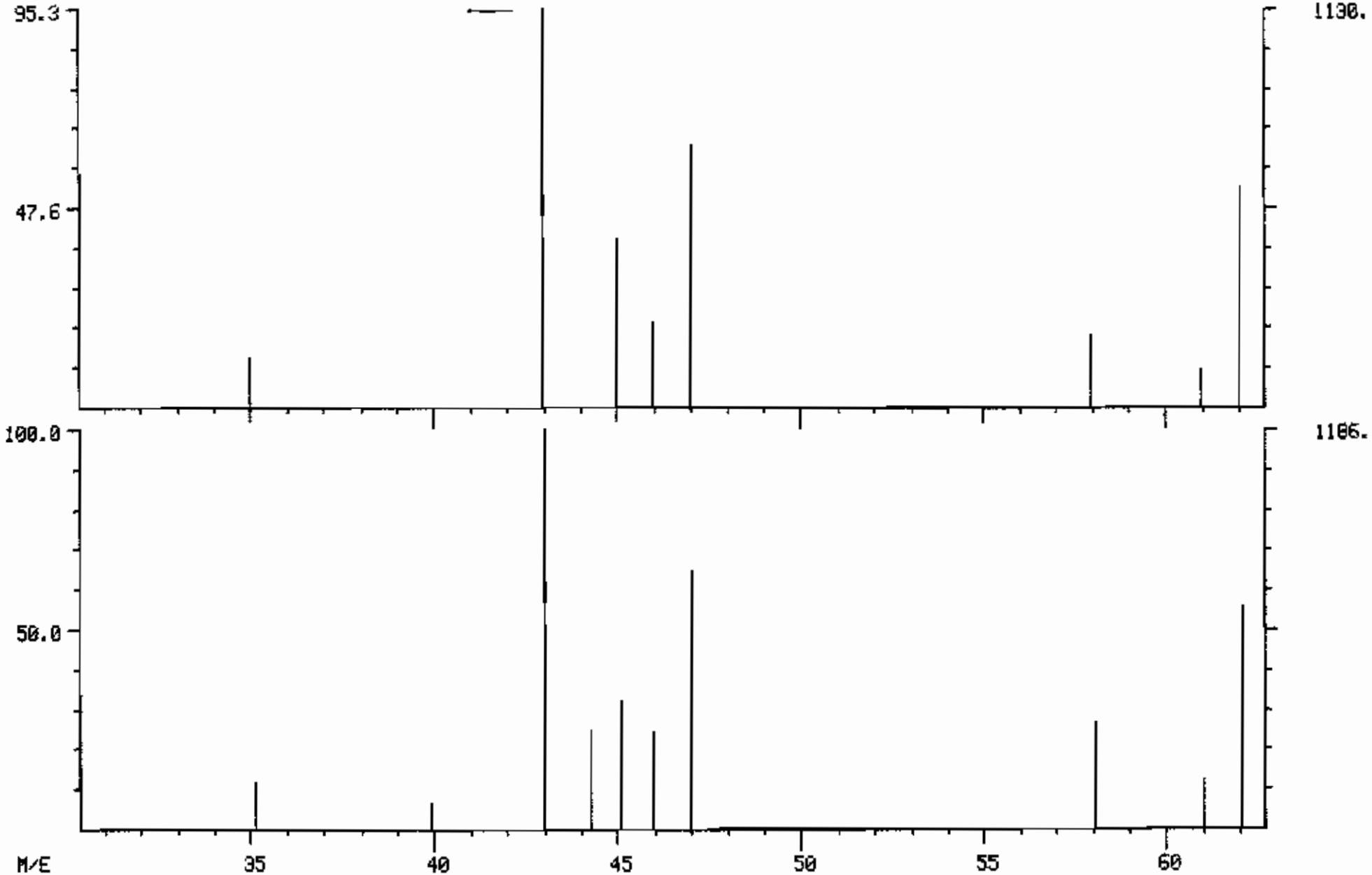


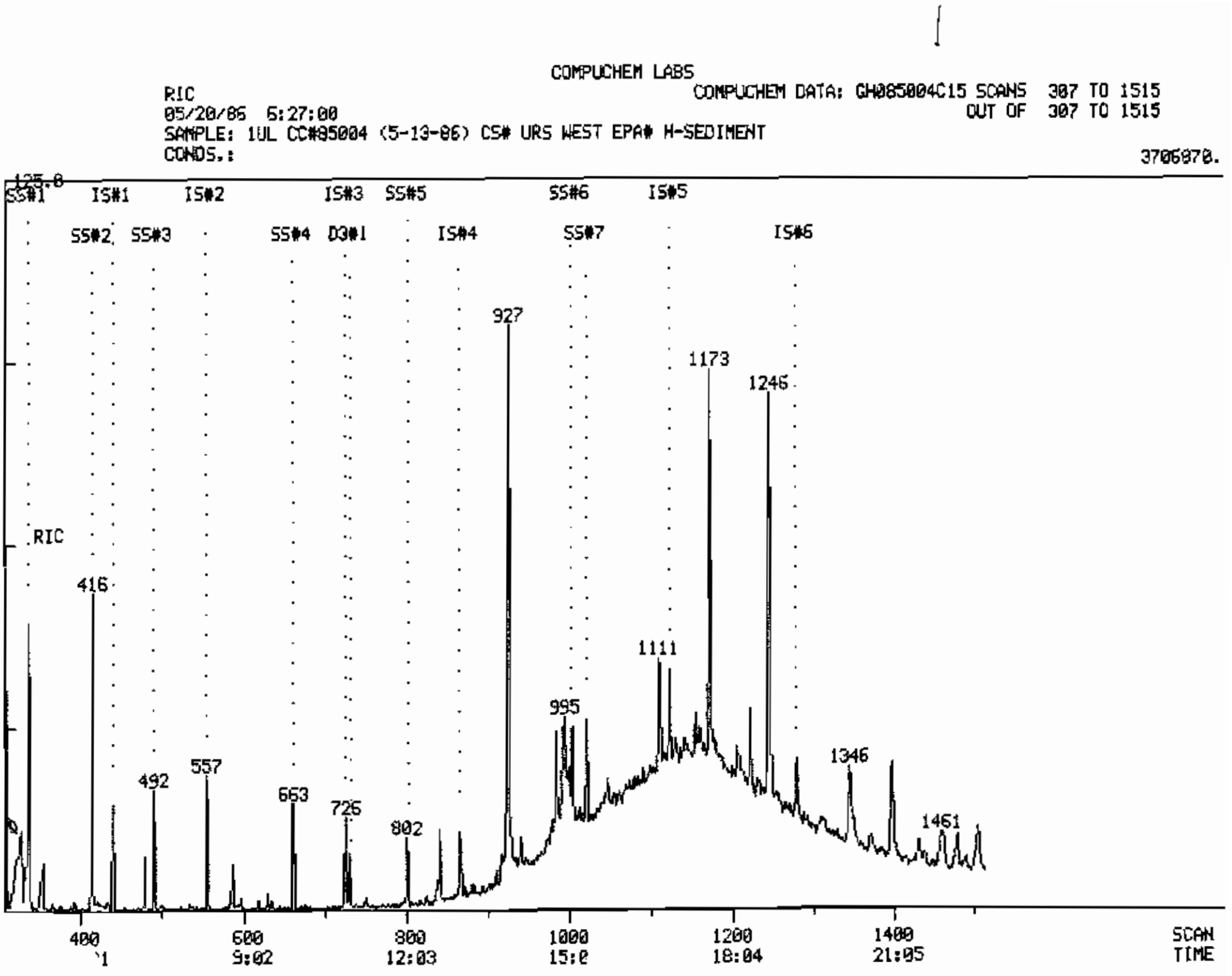
COMPUCHEM LABS

DUAL MASS SPECTRUM
05/15/86 17:24:00 + 7:37
SAMPLE: #85004 CASE#URSWEST EPA#H-SED
ENHANCED (S 15B 2N)

DATA: GH085004B1B #150 BASE M/E: 43/ 43
RIC: 3667./ 4247.

252 ACETONE (2-PROPANONE) (67-64-1) E5#7




COMPUCHEM LABS
RIC
COMPUCHEM DATA: GH085004C15 SCANS 307 TO 1515
05/20/86 5:27:00
OUT OF 307 TO 1515
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:
3706870.
125.0
SS#1
IS#1
IS#2
IS#3
SS#5
SS#6
IS#5
SS#2
SS#3
SS#4
D3#1
IS#4
SS#7
IS#6
RIC
927
1173
1246
416
1111
995
557
492
663
726
802
1346
1461
400
600
800
1000
1200
1400
1
9:02
12:03
15:0
18:04
21:05
SCAN
TIME

INTERNAL STANDARD AREA MONITOR

METHOD: SEMI2 FILENAME: GH085004C15 DATE: 05/20/86
'IFT STD: HQ860520C15 TIME: 6:27

COMPOUND	PEAK AREA SAMPLE	PEAK AREA SHIFT STD	%DIFF	P/F
*494 D4-1,4-DICHLOROBENZENE (IS#1)	150040.	163380.	-8.	PASS
*460 D8-NAPHTHALENE (IS#2)	511668.	592504.	-14.	PASS
*495 D10-ACENAPHTHENE (IS#3)	179656.	240772.	-25.	PASS
*467 D10-PHENANTHRENE (IS#4)	229804.	270440.	-15.	PASS
*459 D12-CHRYSENE (IS#5)	200918.	205920.	-2.	PASS
*497 D12-PERYLENE (IS#6)	195597.	201944.	-3.	PASS

QUANTITATION REPORT FILE: GH085004C15

DATA: GH085004C15.TI
 5/2D/86 6:27:00
 AMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:
SUBMITTED BY: 15 ANALYST: 619

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

NO	NAME
1	#494 D4-1,4-DICHLORDBENZENE (IS#1)
2	610 PHENOL (G1#3) <108-95-2>
3	411 BIS(2-CHLDROETHYL)ETHER (G1#5) <111-44-4>
4	601 2-CHLOROPHENOL (G1#6) <95-57-8>
5	421 1,3-DICHLOROBENZENE (G1#7) <541-73-1>
6	422 1,4-DICHLOROBENZENE (G1#8) <106-46-7>
7	474 BENZYL ALCOHOL (G1#9) <100-51-6>
8	420 1,2-DICHLOROBENZENE (G1#10) <95-50-1>
9	620 2-METHYLPHENOL (G1#11) <95-48-7>
10	412 BIS(2-CHLOROISOPROPYL)ETHER (G1#12) <39638-32-9>
11	622 4-METHYLPHENOL (G1#13) <106-44-5>
12	442 N-NITROSO-DI-N-PROPYLAMINE (G1#14) <621-64-7>
13	436 HEXACHLOROETHANE (G1#15) <67-72-1>
14	440 NITROBENZENE (G1#16) <98-95-3>
15	#460 D8-NAPHTHALENE (IS#2)
16	438 ISOPHORONE (G2#2) <78-59-1>
17	606 2-NITROPHENOL (G2#3) <88-75-5>
8	603 2,4-DIMETHYLPHENOL (G2#4) <105-67-9>
19	625 BENZOIC ACID (G2#5) <65-85-0>
20	410 BIS(2-CHLOROETHOXY)METHANE (G2#6) <111-91-1>
21	602 2,4-DICHLOROPHENOL (G2#7) <120-83-2>
22	446 1,2,4-TRICHLOROBENZENE (G2#8) <120-82-1>
23	439 NAPHTHALENE (G2#9) <91-20-3>
24	475 4-CHLOROANILINE (G2#10) <106-47-0>
25	434 HEXACHLOROBUTADIENE (G2#11) <87-68-3>
26	608 P-CHLORO-M-CREBOL (G2#12) <59-50-7>
27	477 2-METHYLNAPHTHALENE (G2#13) <91-57-6>
28	#495 D10-ACENAPHTHENE (IS#3)
29	435 HEXACHLOROCYCLOPENTADIENE (G3#2) <77-47-4>
30	611 2,4,6-TRICHLOROPHENOL (G3#3) <88-06-2>
31	626 2,4,5-TRICHLOROPHENOL (G3#4) <95-95-4>
32	416 2-CHLORONAPHTHALENE (G3#5) <91-58-7>
33	478 2-NITROANILINE (G3#6) <88-74-4>
34	425 DIMETHYL PHTHALATE (G3#7) <131-11-3>
35	402 ACENAPHTHYLENE (G3#8) <208-96-8>
36	479 3-NITROANILINE (G3#9) <99-09-2>
37	401 ACENAPHTHENE (G3#10) <83-32-9>
38	@605 2,4-DINITROPHENOL (G3#11) <51-28-5>
39	607 4-NITROPHENOL (G3#12) <100-02-7>
40	476 DIBENZOFURAN (G3#13) <132-64-9>
41	427 2,4-DINITROTOLUENE (G3#14) <121-14-2>
42	428 2,6-DINITROTOLUENE (G3#15) <606-20-2>
43	424 DIETHYL PHTHALATE (G3#16) <84-66-2>
4	417 4-CHLOROPHENYL PHENYL ETHER (G3#17) <7005-72-3>
45	432 FLUORENE (G3#18) <86-73-7>
46	480 4-NITROANILINE (G3#19) <100-01-6>

NO	NAME
47	#467 D10-PHENANTHRENE (IS#4)
8	604 4,6-DINITRO-2-METHYLPHENOL (Q4#2) <534-52-1>
49	443 N-NITROSODIPHENYLAMINE (Q4#3) <86-30-6>
50	414 4-BROMOPHENYL PHENYL ETHER (Q4#4) <101-55-3>
51	433 HEXACHLOROBENZENE (Q4#5) <118-74-1>
52	609 PENTACHLOROPHENOL (Q4#6) <87-86-5>
53	444 PHENANTHRENE (Q4#7) <85-01-8>
54	403 ANTHRACENE (Q4#8) <120-12-7>
55	426 DI-N-BUTYL PHTHALATE (Q4#9) <84-74-2>
56	431 FLUORANTHENE (Q4#10) <206-44-0>
57	#459 D12-CHRYSENE (IS#5)
58	445 PYRENE (Q5#3) <129-00-0>
59	415 BUTYLBENZYL PHTHALATE (Q5#4) <85-68-7>
60	423 3,3'-DICHLOROBENZIDINE (Q5#5) <91-94-1>
61	405 BENZO(A)ANTHRACENE (Q5#6) <56-55-3>
62	413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) <117-81-7>
63	418 CHRYSENE (Q5#8) <218-01-9>
64	#497 D12-PERYLENE (IS#6)
65	429 DI-N-OCTYL PHTHALATE (Q6#2) <117-84-0>
66	407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>
67	409 BENZO(K)FLUORANTHENE (Q6#4) <207-08-9>
68	406 BENZO(A)PYRENE (Q6#5) <50-32-8>
69	437 INDENO(1,2,3-C,D)PYRENE (Q6#6) <193-39-5>
70	419 DIBENZO(A,H)ANTHRACENE (Q6#7) <53-70-3>
71	408 BENZO(G,H,I)PERYLENE (Q6#8) <191-24-2>
72	#619 2-FLUOROPHENOL (SS#1)
73	#612 D5-PHENOL (SS#2)
4	#447 D5-NITROBENZENE (SS#3)
/5	#448 2-FLUOROBIPHENYL (SS#4)
76	#628 2,4,6-TRIBROMOPHENOL (SS#5)
77	#496 D14-TERPHENYL (SS#6)
78	#471 D10-PYRENE
79	456 1,2,3,4-TETRACHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	152	441	6:38	1	1.000	A BB	150040.	40.000 NG	4.79
2	94	417	6:17	1	0.946	A BB	11208.	1.108 NG	0.13 yes
3	93	NOT FOUND							
4	128	NOT FOUND							
5	146	NOT FOUND							
6	146	NOT FOUND							
7	108	NOT FOUND							
8	146	NOT FOUND							
9	108	NOT FOUND							
10	45	NOT FOUND							
11	108	481	7:15	1	1.091	A BV	108400.	15.751 NG	1.88 yes
12	70	NOT FOUND							
13	117	NOT FOUND							
14	77	NOT FOUND							
15	136	557	8:23	15	1.000	A BB	511668.	40.000 NG	4.79
16	82	NOT FOUND							
17	139	NOT FOUND							
'8	122	NOT FOUND							
.9	122	536	8:04	15	0.962	A BV	11620.	3.567 NG	0.43 yes
20	93	NOT FOUND							
21	162	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
22	180	NOT FOUND							
23	128	NOT FOUND							
24	127	NOT FOUND							
25	225	NOT FOUND							
26	107	NOT FOUND							
27	142	NOT FOUND							
28	164	726	10:56	28	1.000	A BB	179656.	40.000 NG	4.79
29	237	NOT FOUND							
30	196	NOT FOUND							
31	196	NOT FOUND							
32	162	NOT FOUND							
33	65	NOT FOUND							
34	163	NOT FOUND							
35	152	NOT FOUND							
36	138	NOT FOUND							
37	153	NOT FOUND							
38	184	NOT FOUND							
39	139	NOT FOUND							
40	168	NOT FOUND							
41	89	NOT FOUND							
42	165	NOT FOUND							
43	149	773	11:38	28	1.065	A*BB	9012.	1.440 NG	0.17
44	204	NOT FOUND							
45	166	NOT FOUND							
46	138	NOT FOUND							
47	188	867	13:03	47	1.000	A VV	229804.	40.000 NG	4.79
48	198	NOT FOUND							
49	169	NOT FOUND							
50	248	NOT FOUND							
51	284	NOT FOUND							
52	266	NOT FOUND							
53	178	869	13:05	47	1.002	A VV	68196.	8.489 NG	1.02
54	178	874	13:10	47	1.008	A*VV	11892.	2.027 NG	0.24
55	149	930	14:00	47	1.073	A*VV	9532.	1.044 NG	0.12
56	202	985	14:50	47	1.136	A VV	133806.	18.751 NG	2.24
57	240	1124	16:56	57	1.000	A VV	200918.	40.000 NG	4.79
58	202	1006	15:09	57	0.895	A VV	120417.	15.187 NG	1.82
59	149	1074	16:10	57	0.956	A BB	21018.	3.652 NG	0.68
60	252	1118	16:50	57	0.995	A*VB	3448.	1.548 NG	0.19
61	228	1122	16:54	57	0.998	A VV	52201.	7.916 NG	0.95
62	149	1132	17:03	57	1.007	A VB	24563.	4.629 NG	0.55
63	228	1126	16:57	57	1.002	A VV	58727.	11.041 NG	1.32
64	264	1279	19:16	64	1.000	A BV	195597.	40.000 NG	4.79
65	149	NOT FOUND							
66	252	1233	18:34	64	0.964	A VV	98724.	17.683 NG	2.12
67	252	1233	18:34	64	0.964	A VV	98724.	17.603 NG	2.12
68	252	1272	19:09	64	0.995	A VV	51944.	9.759 NG	1.17
69	276	1457	21:57	64	1.139	A*VV	31317.	4.586 NG	0.55
70	278	1461	22:00	64	1.142	A VV	9728.	1.752 NG	0.21
71	276	NOT FOUND							
72	112	338	5:05	1	0.766	A BV	571556.	83.319 NG	9.97
73	99	416	6:16	1	0.943	A BV	787512.	90.581 NG	10.84
74	82	492	7:25	15	0.883	A BB	333876.	46.599 NG	5.58
5	172	663	9:59	28	0.913	A BB	300784.	52.389 NG	6.27
76	141	802	12:05	28	1.105	A VV	29376.	82.708 NG	9.90
77	244	1023	15:24	57	0.910	A VV	213684.	44.600 NG	5.34

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
78	212	1004	15:07	57	0.893	A VV	286595.	45.831	NG	5.48
79	216	NOT FOUND								

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	6:38	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
2	6:15	1.00	10.000	0.09	1.11	50.00	0.060	2.696	0.02
3	6:20		10.000			50.00		2.085	
4	6:24		10.000			50.00		1.722	
5	6:35		10.000			50.00		1.663	
6	6:39		10.000			50.00		1.704	
7	6:51		10.000			50.00		1.140	
8	6:54		10.000			50.00		1.560	
9	7:03		10.000			50.00		1.478	
10	7:05		10.000			50.00		3.325	
11	7:14	1.00	10.000	0.11	15.75	50.00	0.578	1.835	0.32
12	7:16		10.000			50.00		1.618	
13	7:19		10.000			50.00		0.846	
14	7:25		10.000			50.00		2.176	
15	8:22	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
16	7:45		10.000			50.00		1.109	
17	7:53		10.000			50.00		0.246	
18	7:57		10.000			50.00		0.344	
19	8:06	1.00	50.000	0.02	3.57	50.00	0.018	0.255	0.07
20	8:05		10.000			50.00		0.534	
21	8:12		10.000			50.00		0.276	
22	8:20		10.000			50.00		0.301	
23	8:24		10.000			50.00		1.080	
24	8:31		10.000			50.00		0.477	
25	8:41		10.000			50.00		0.094	
26	9:12		10.000			50.00		0.371	
27	9:24		10.000			50.00		0.598	
28	10:54	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
29	9:44		10.000			50.00		0.330	
30	9:53		10.000			100.00		0.354	
31	9:53		50.000			100.00		0.354	
32	10:04		10.000			50.00		1.260	
33	10:15		50.000			50.00		0.582	
34	10:35		10.000			50.00		1.382	
35	10:41		10.000			50.00		1.995	
36	10:51		50.000			50.00		0.403	
37	10:57		10.000			50.00		1.199	
38	11:01		50.000			50.00		0.112	
39	11:07		50.000			50.00		0.274	
40	11:11		10.000			50.00		1.583	
41	11:14		10.000			50.00		0.558	
42	10:40		10.000			50.00		0.311	
43	11:38	1.00	10.000	0.11	1.44	50.00	0.040	1.393	0.03
44	11:42		10.000			50.00		0.519	
45	11:41		10.000			50.00		1.242	
46	11:45		50.000			50.00		0.321	
47	13:02	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
48	11:49		50.000			50.00		0.138	
49	11:52		10.000			50.00		0.765	
50	12:24		10.000			50.00		0.296	
51	12:36		10.000			50.00		0.391	
52	12:51		50.000			50.00		0.130	

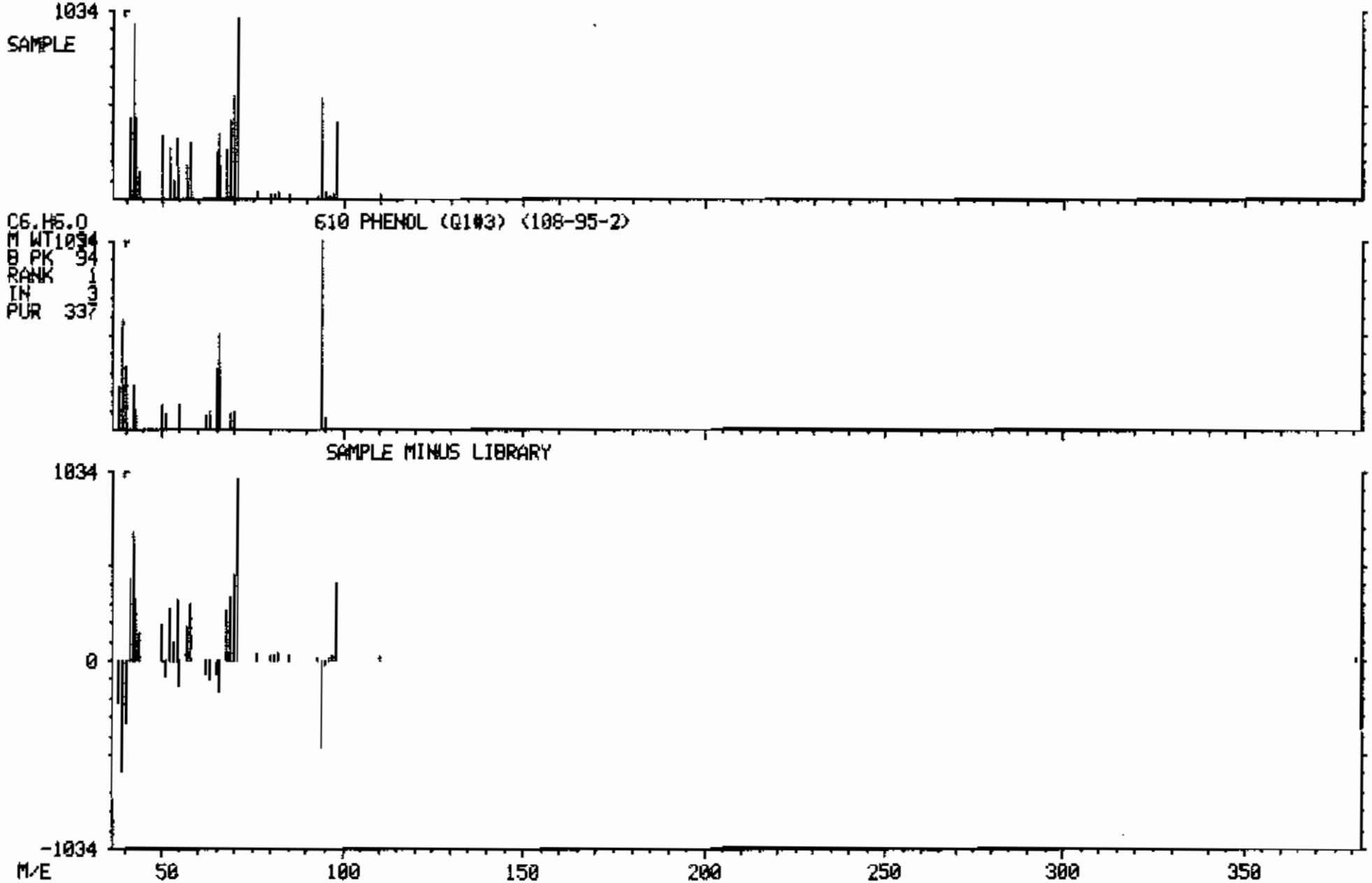
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
53	13:04	1.00	10.000	0.10	8.49	50.00	0.237	1.398	0.17
4	13:08	1.00	10.000	0.10	2.03	50.00	0.041	1.021	0.04
55	13:59	1.00	10.000	0.11	1.04	50.00	0.033	1.590	0.02
56	14:48	1.00	10.000	0.11	18.75	50.00	0.466	1.242	0.38
57	16:54	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
58	15:07	1.00	10.000	0.09	15.19	50.00	0.479	1.579	0.30
59	16:08	1.00	10.000	0.10	5.65	50.00	0.084	0.740	0.11
60	16:50	1.00	20.000	0.05	1.55	50.00	0.014	0.444	0.03
61	16:52	1.00	10.000	0.10	7.92	50.00	0.208	1.313	0.16
62	17:00	1.00	10.000	0.10	4.63	50.00	0.098	1.056	0.09
63	16:56	1.00	10.000	0.10	11.04	50.00	0.234	1.059	0.22
64	19:12	1.00	10.000	0.10	40.00	40.00	1.000	1.000	1.00
65	17:53		10.000			50.00		2.717	
66	18:30	1.00	10.000	0.10	17.68	100.00	0.202	1.142	0.18
67	18:30	1.00	10.000	0.10	17.68	100.00	0.202	1.142	0.18
68	19:06	1.00	10.000	0.10	9.76	50.00	0.212	1.089	0.20
69	21:53	1.00	10.000	0.11	4.59	50.00	0.128	1.397	0.09
70	21:55	1.00	10.000	0.11	1.75	50.00	0.040	1.136	0.04
71	22:40		10.000			50.00		1.148	
72	5:05	1.00	0.742	1.03	83.32	50.00	3.047	1.829	1.67
73	6:14	1.00	0.948	0.99	90.58	50.00	4.199	2.318	1.81
74	7:25	1.00	0.875	1.01	46.60	50.00	0.522	0.560	0.93
75	9:57	1.00	0.906	1.01	52.39	50.00	1.339	1.278	1.05
76	12:04	1.00	1.118	0.99	82.71	50.00	0.131	0.079	1.65
77	15:23	1.00	0.907	1.00	44.60	50.00	0.851	0.954	0.89
78	15:05	1.00	10.000	0.09	45.83	50.00	1.141	1.245	0.92
79	10:05		1.000			50.00		0.213	

COMPUCHEM LABS

LIBRARY SEARCH
05/20/86 6:27:00 + 6:17
SAMPLE: 1UL CC#05004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT

DATA: GH005004C15 # 417
ENHANCED (10B 2N 0T)

BASE M/E: 71
RIC: 81663.

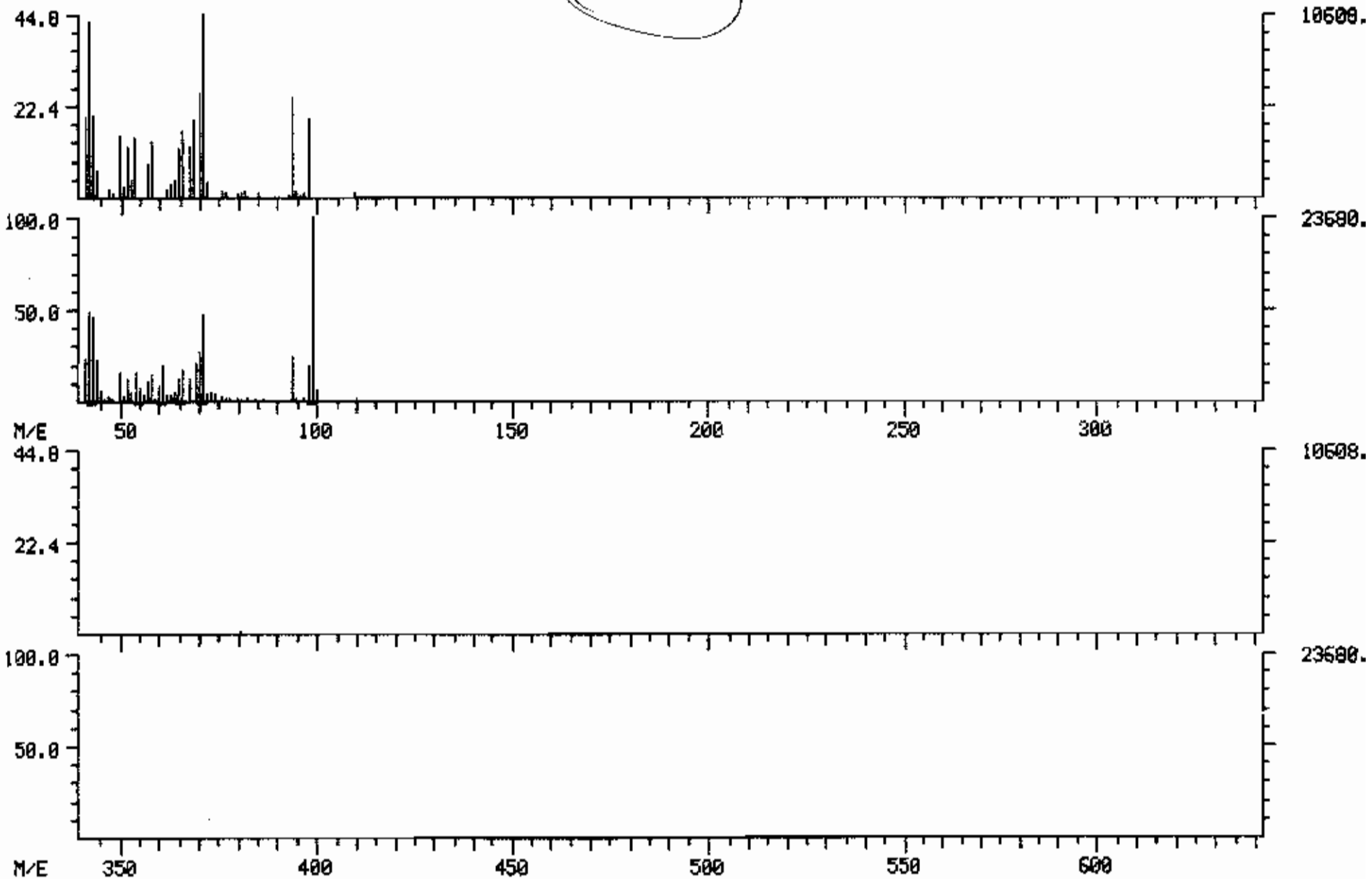


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/20/86 6:27:00 + 6:17
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT

DATA: GH085004C15 #417 BASE M/E: 71/ 99
RIC: 96655./ 140287.

SECOND SPECTRUM
DATA: GH085004C15 #417 610 PHENOL (Q1#3) (108-95-2)

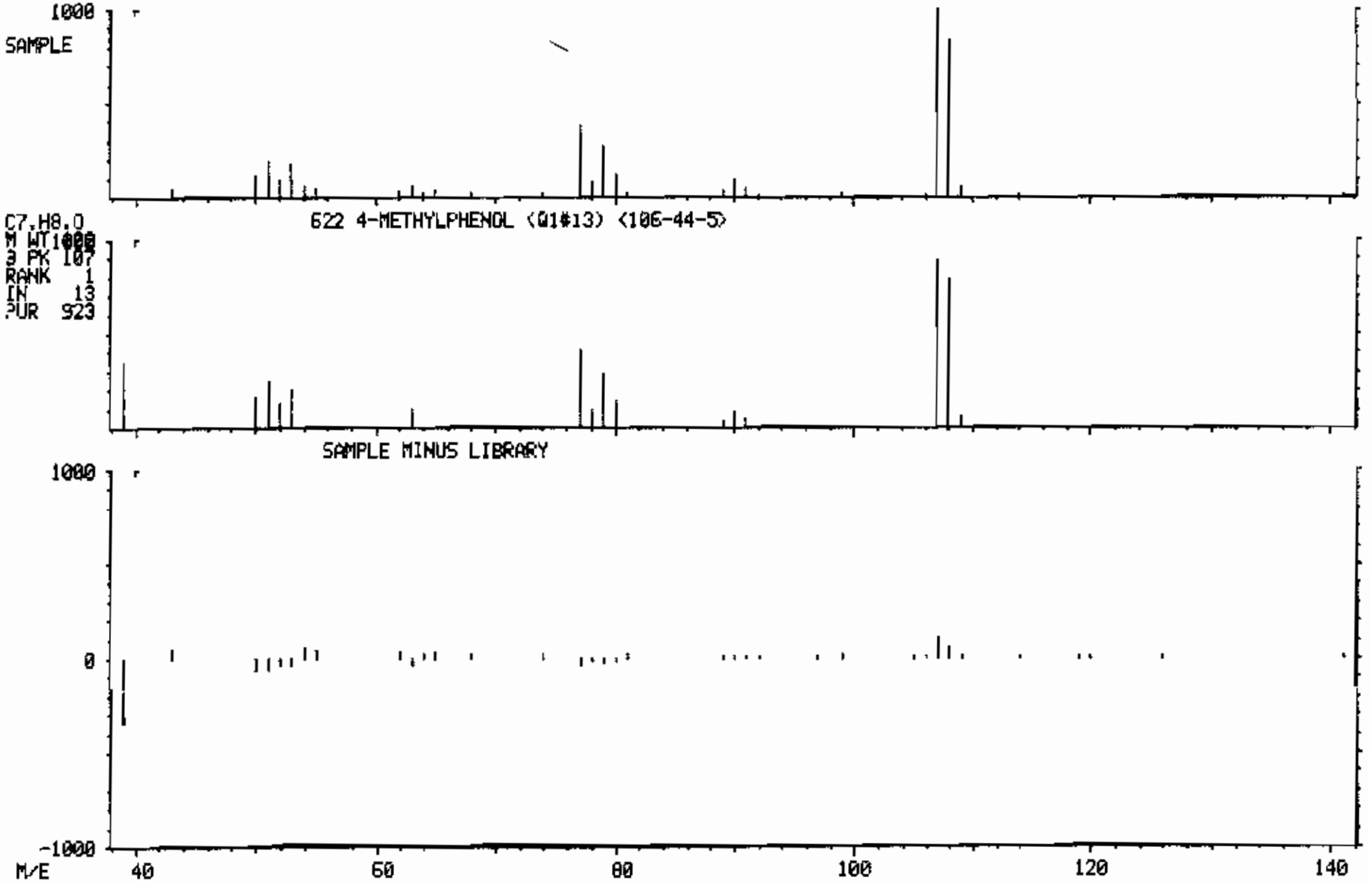


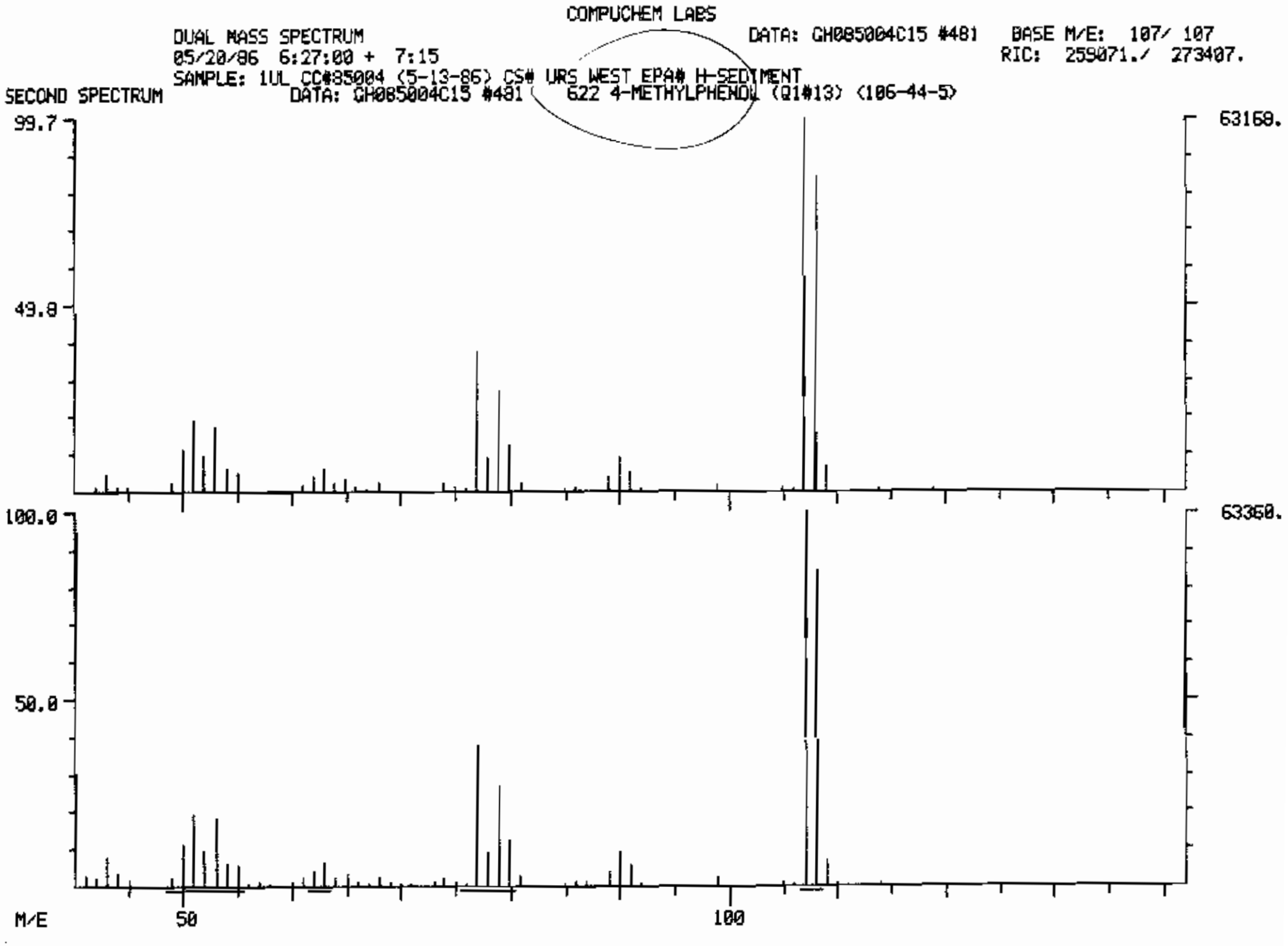
COMPUCHEM LABS

LIBRARY SEARCH
05/20/86 6:27:00 + 7:15
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT

DATA: GH085004C15 # 481
ENHANCED (100 2N 0T)

BASE M/E: 107
RIC: 249855.



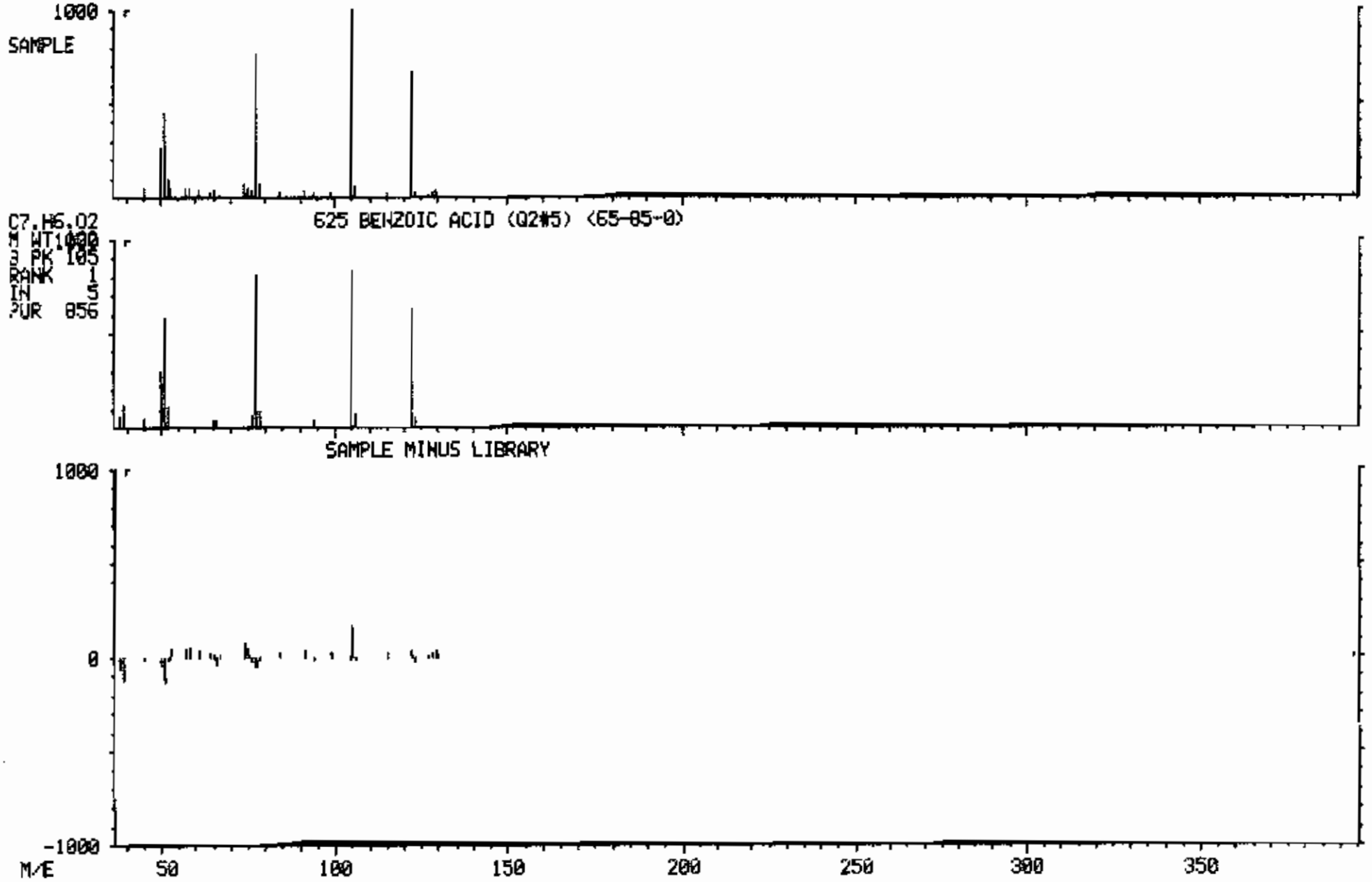

COMPUCHEM LABS
DUAL MASS SPECTRUM
05/20/86 6:27:00 + 7:15
DATA: GH085004C15 #481
BASE M/E: 107/ 107
RIC: 259071./ 273407.
SAMPLE: 1UL CC#35004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
SECOND SPECTRUM
DATA: GH085004C15 #481
622 4-METHYLPHENOL (Q1#13) (106-44-5)
99.7
49.8
63160.
100.0
50.0
63360.
M/E
50
100

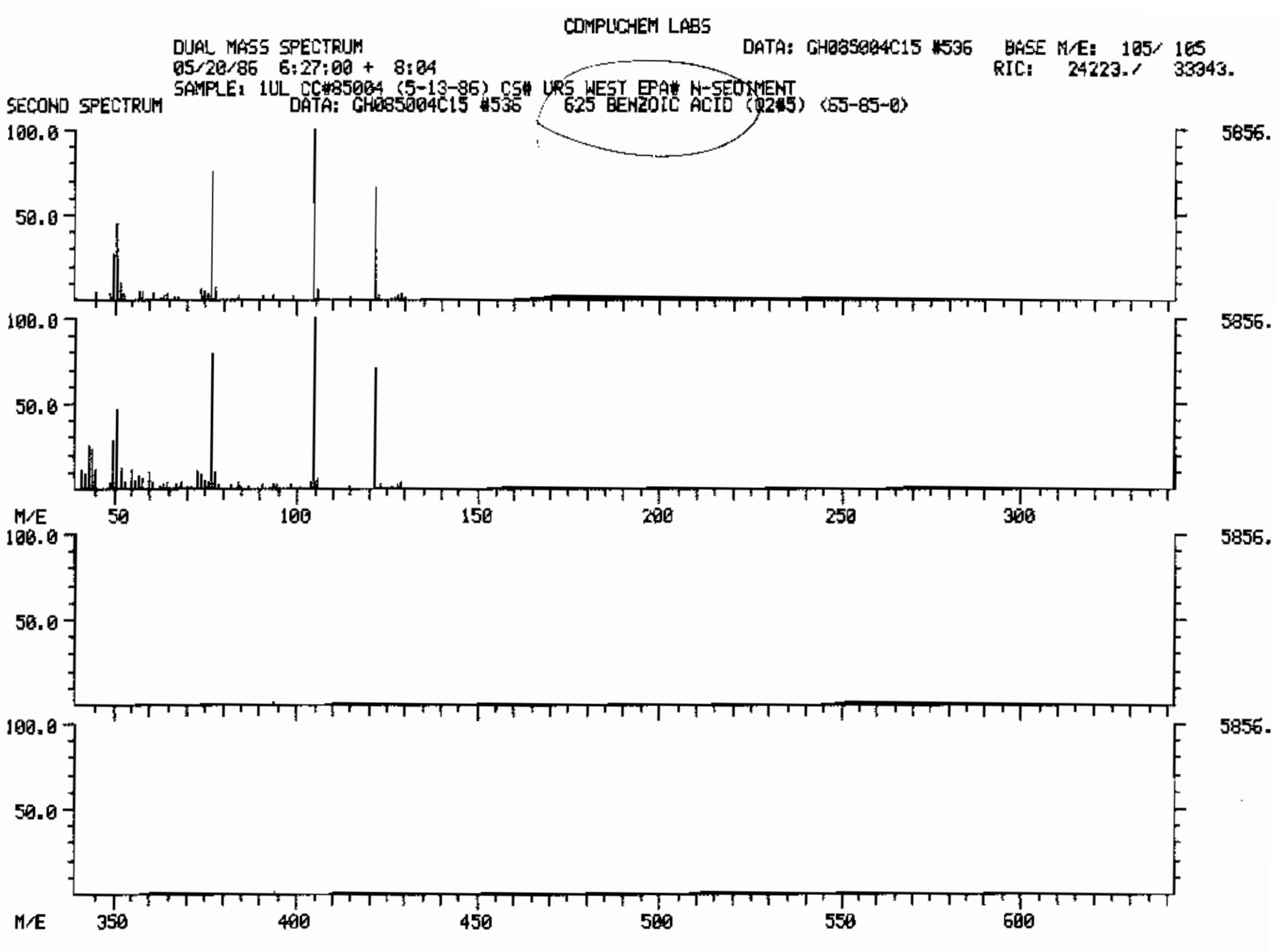
COMPUCHEM LA0S

LIBRARY SEARCH
05/20/86 6:27:00 + 0:04
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT

DATA: GH085004C15 # 536
ENHANCED (10B 2N 0T)

BASE M/E: 105
RIC: 23871.



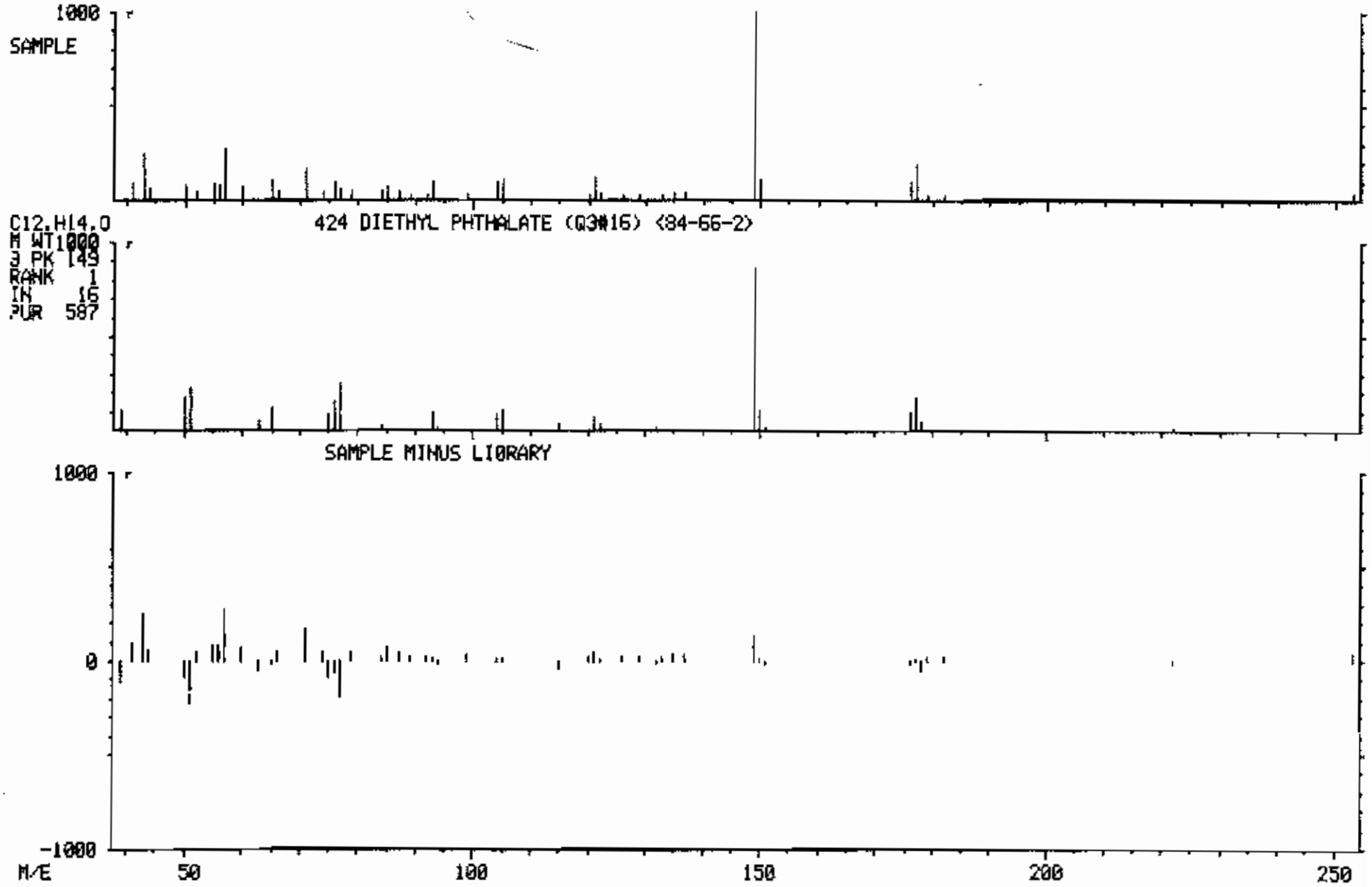

COMPUCHEM LABS
DUAL MASS SPECTRUM
05/20/86 6:27:00 + 8:04
DATA: GH085004C15 #536 BASE M/E: 105/ 105
RIC: 24223./ 33343.
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# N-SEDIMENT
SECOND SPECTRUM
DATA: GH085004C15 #536
625 BENZOIC ACID (02#5) (65-85-0)
100.0
50.0
5856.
M/E
50
100
150
200
250
300
350
400
450
500
550
600

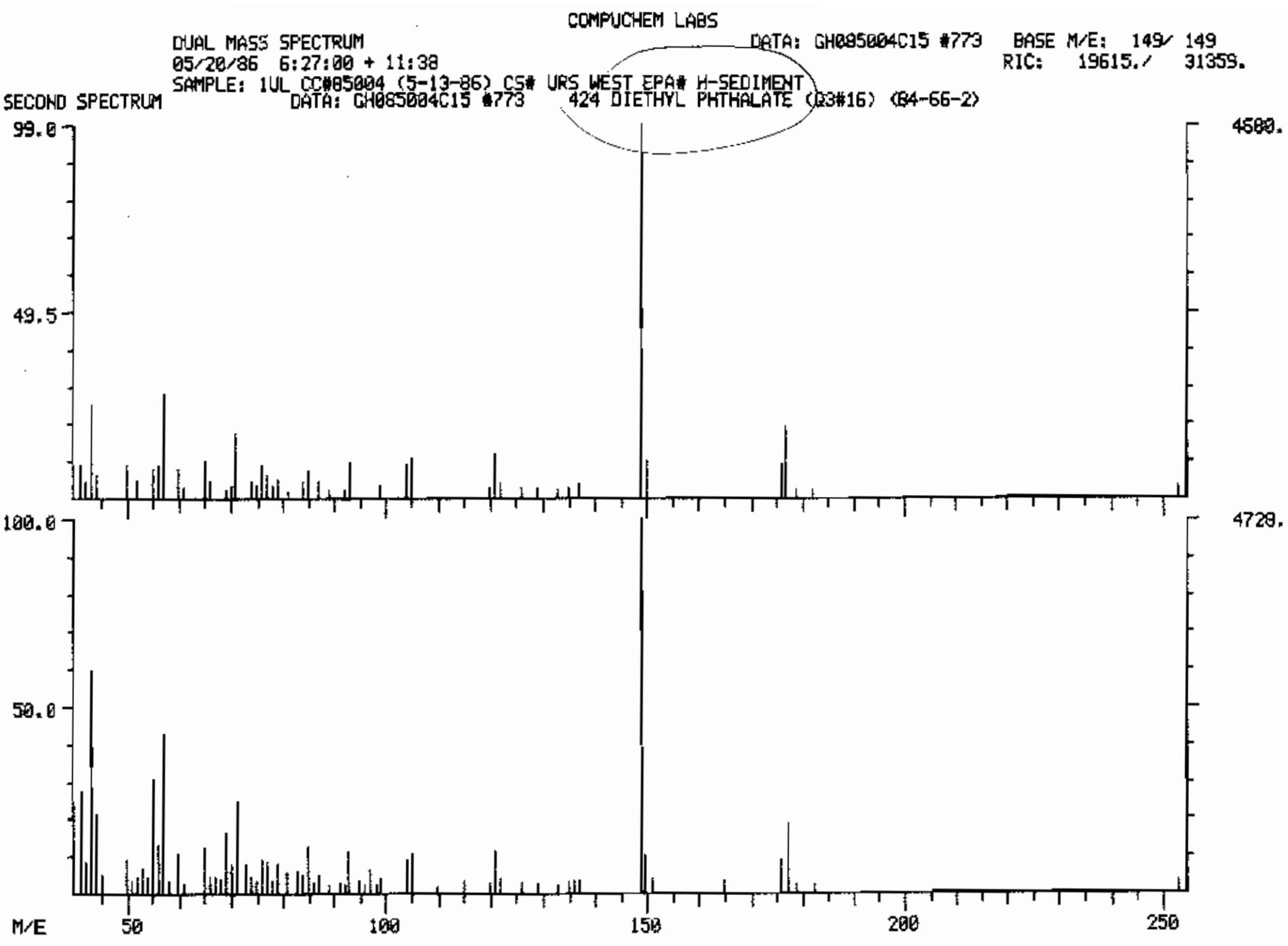
COMPUCHEM LABS

LIBRARY SEARCH
05/20/86 6:27:00 + 11:38
SAMPLE: 1UL CC#85004 (5-13-85) CS# URS WEST EPA# H-SEDIMENT

DATA: GH085004C15 # 773
ENHANCED (10B 2N 0T)

BASE M/E: 149
RIC: 18591.



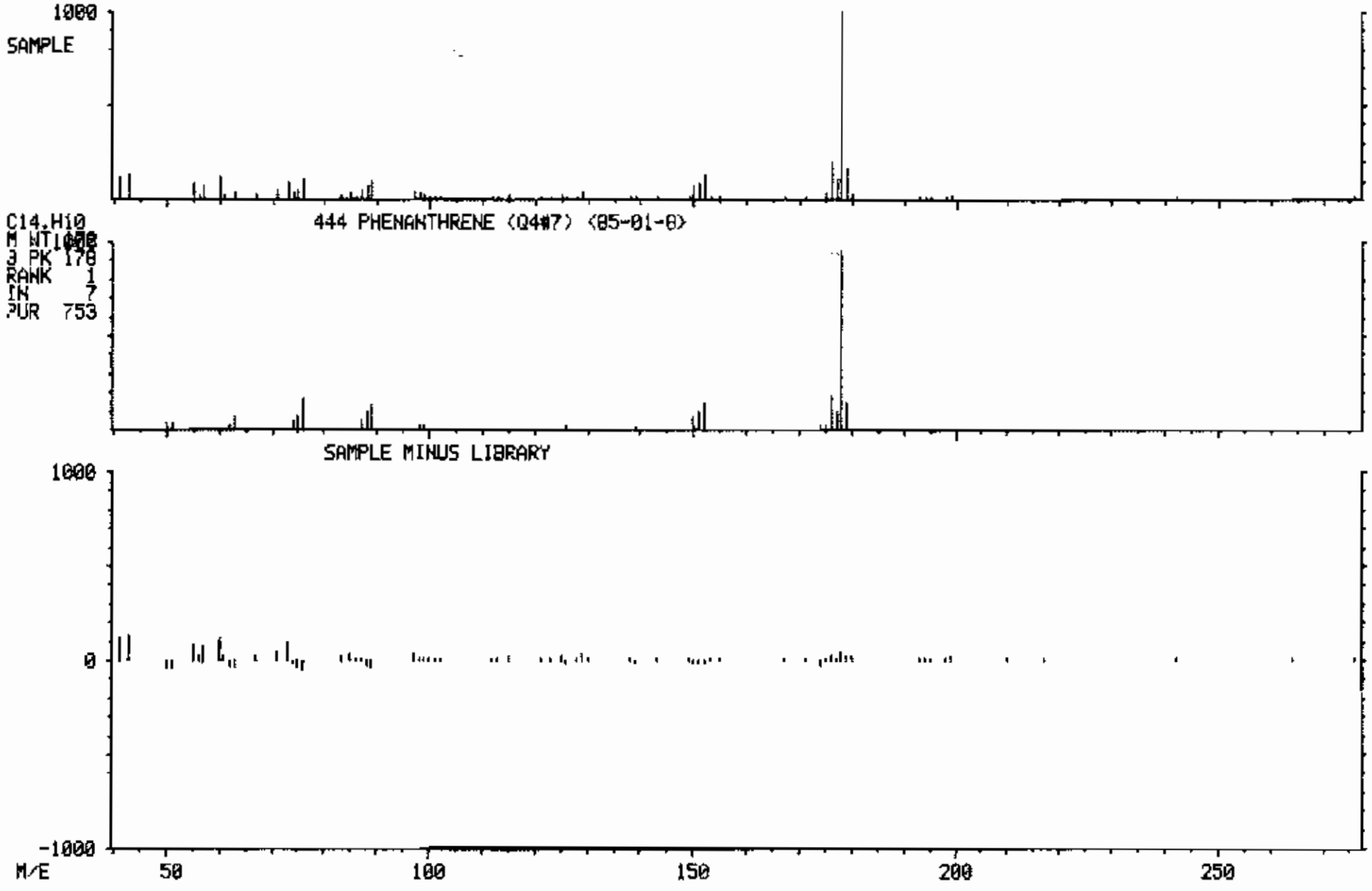

COMPUCHEM LABS
DUAL MASS SPECTRUM
05/20/86 6:27:00 + 11:38
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
DATA: GH085004C15 #773
BASE M/E: 149/ 149
RIC: 19615./ 31359.
SECOND SPECTRUM
DATA: GH085004C15 #773 424 DIETHYL PHTHALATE (Q3#16) (84-66-2)
99.0
49.5
4580.
100.0
50.0
4720.
M/E
50
100
150
200
250

COMPUCHEM LABS

LIBRARY SEARCH
05/20/86 6:27:00 + 13:05
SAMPLE: 1UL CC#05004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT

DATA: GH085004C15 # 869
ENHANCED (10B 2N 0T)

BASE M/E: 178
RIC: 115455.

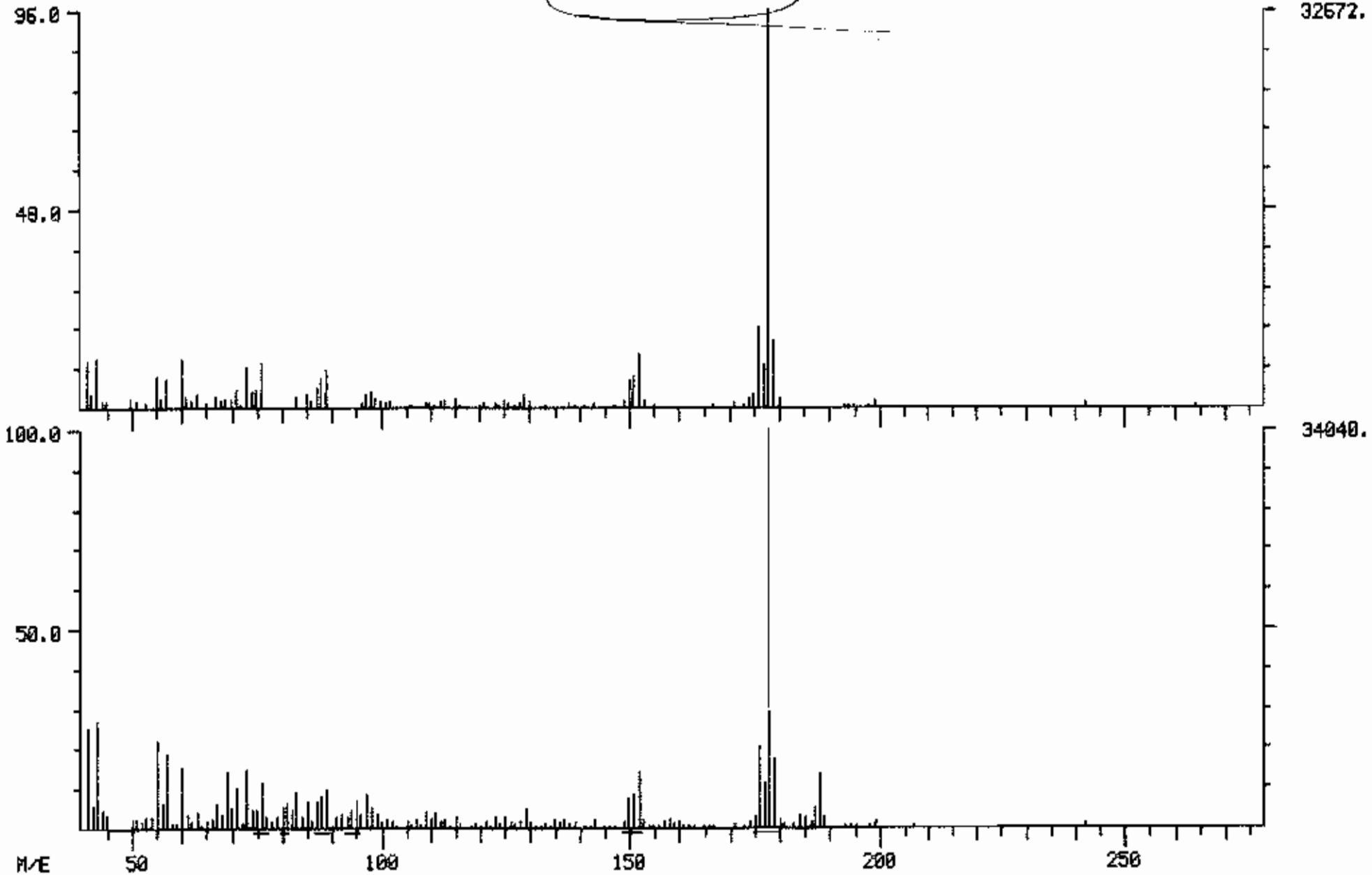


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/20/86 6:27:00 + 13:05
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT

DATA: GH085004C15 #869 BASE M/E: 178/ 170
RIC: 125951./ 220927.

SECOND SPECTRUM DATA: GH085004C15 #869 444 PHENANTHRENE (04#7) (85-01-8)

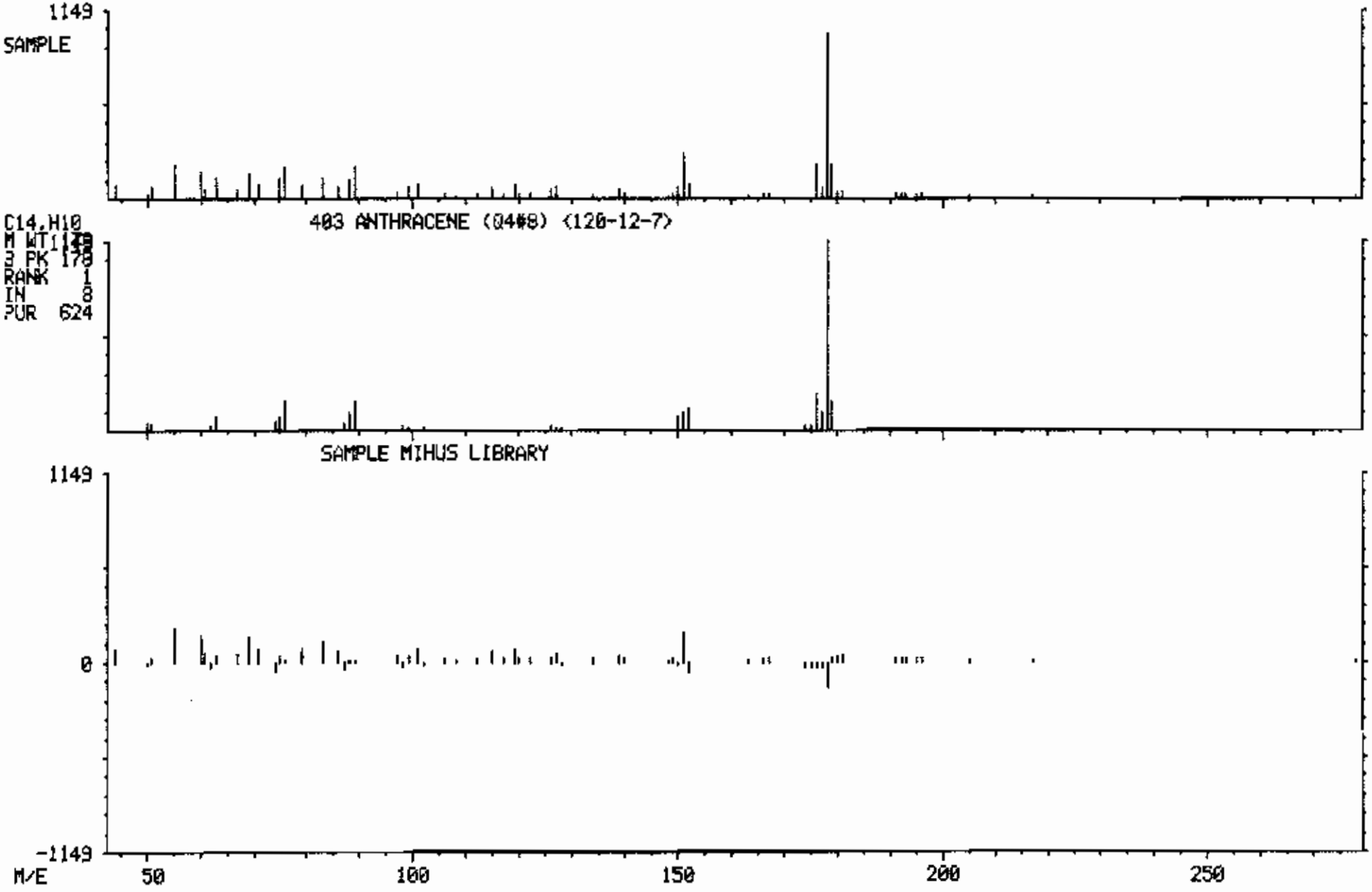


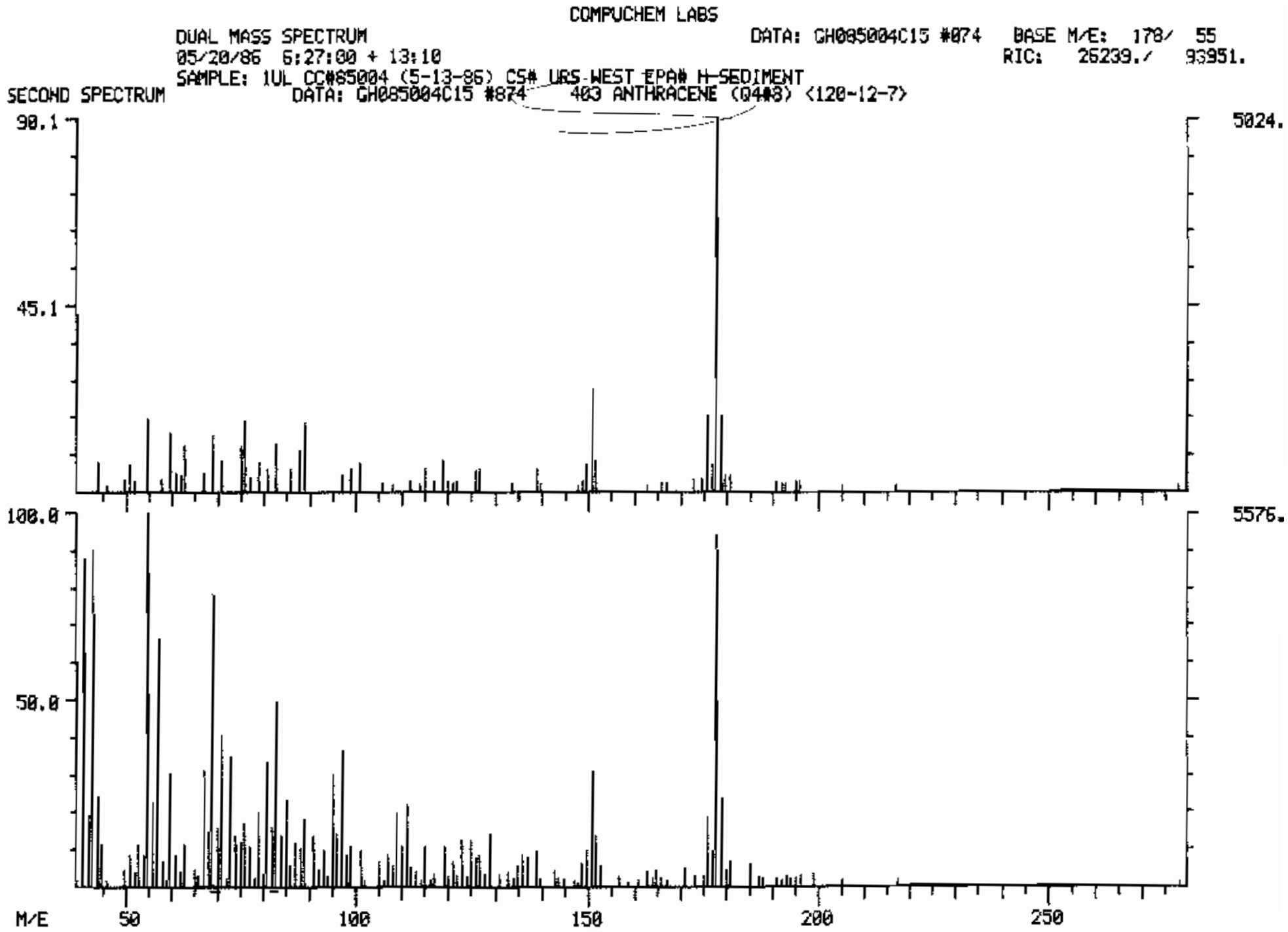
COMPUCHEM LABS

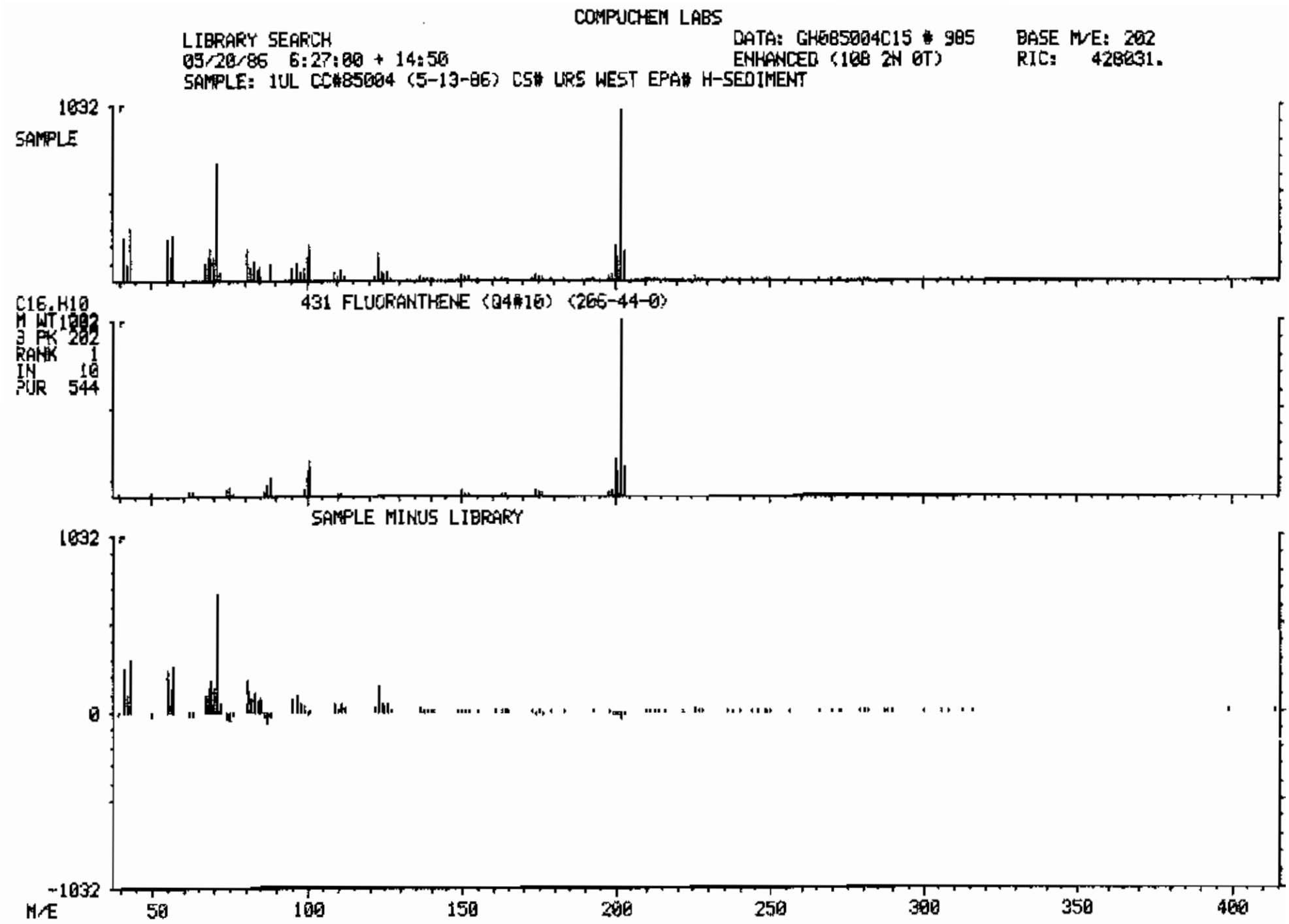
LIBRARY SEARCH
05/20/86 6:27:00 + 13:10
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT

DATA: GH085004C15 # 874
ENHANCED (10B 2N 0T)

BASE M/E: 178
RIC: 24575.



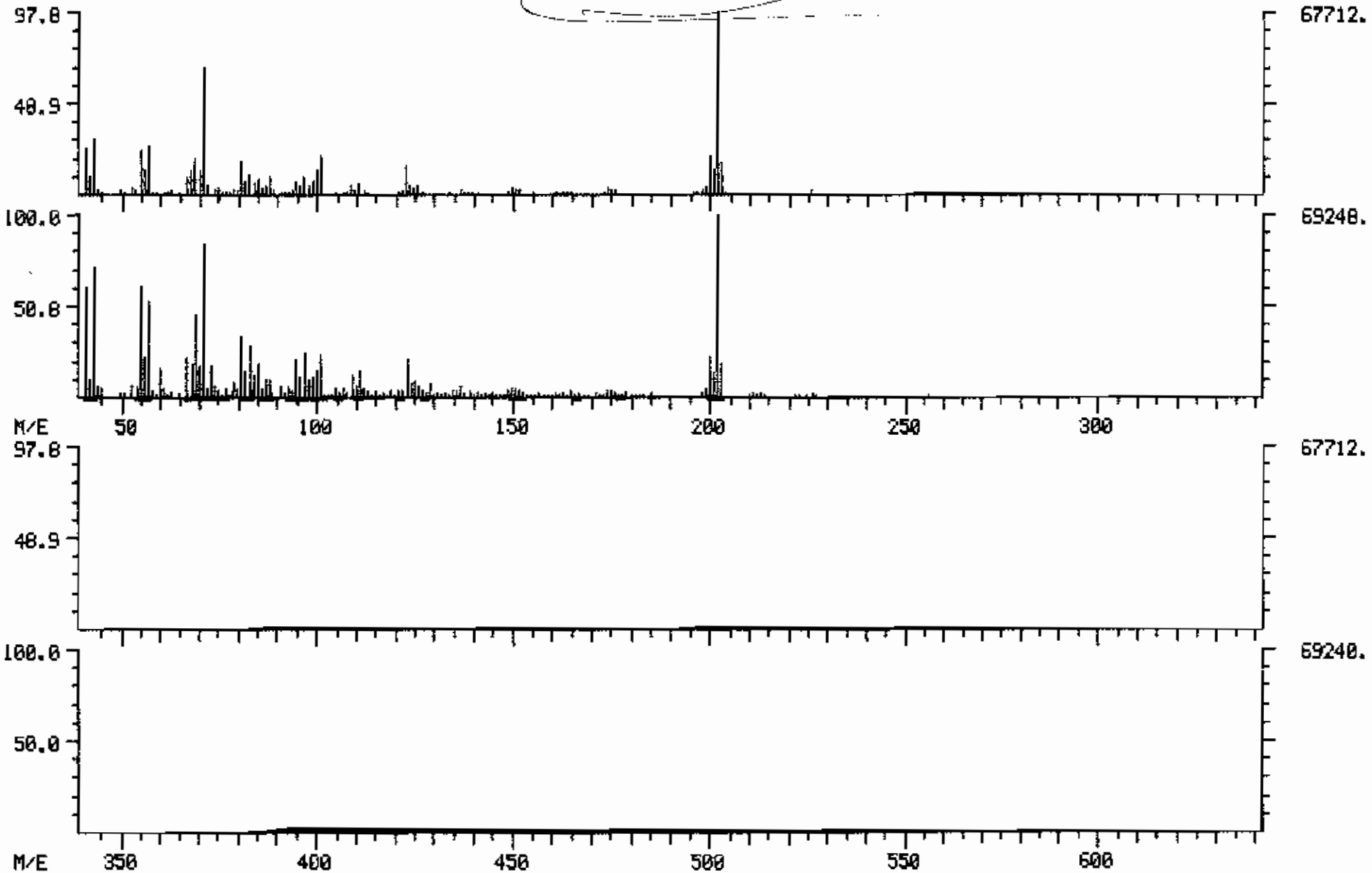

COMPUCHEM LABS
DUAL MASS SPECTRUM
05/20/86 6:27:00 + 13:10
DATA: GH085004C15 #074
BASE M/E: 178/ 55
RIC: 26239./ 93951.
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS-WEST EPA# H-SEDIMENT
SECOND SPECTRUM
DATA: GH085004C15 #874
403 ANTHRACENE (Q4#8) <120-12-7>
90.1
45.1
5024.
100.0
50.0
5576.
M/E
50
100
150
200
250

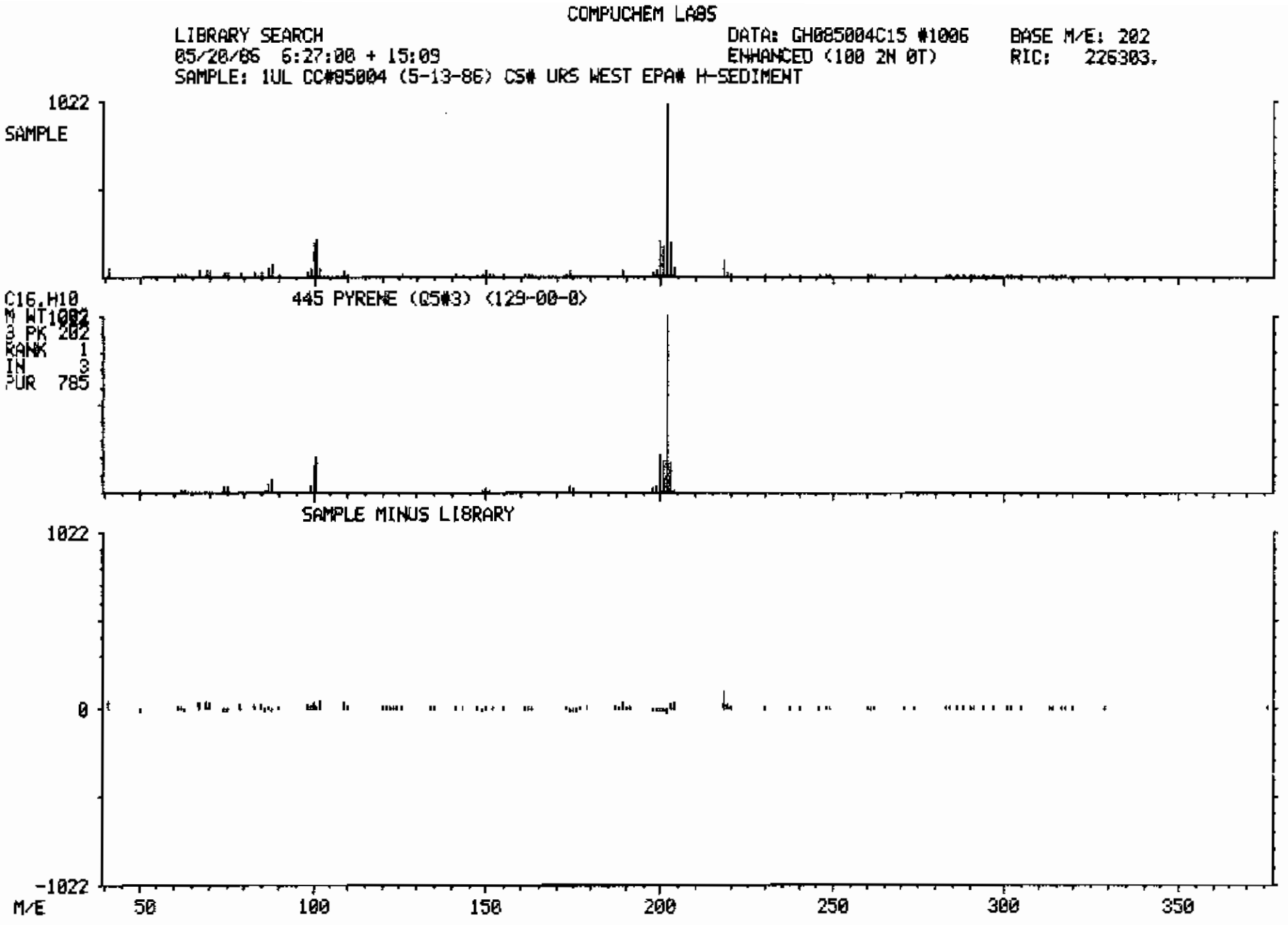

COMPUCHEM LABS
LIBRARY SEARCH
05/20/86 6:27:00 + 14:50
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
DATA: GH085004C15 # 985
ENHANCED (10B 2N 0T)
BASE M/E: 202
RIC: 420031.
1032
SAMPLE
C16,H10
M WT 202
B PK 202
RANK 1
IN 10
PUR 544
431 FLUORANTHENE (Q4#10) (206-44-0)
SAMPLE MINUS LIBRARY
1032
0
-1032
M/E
50
100
150
200
250
300
350
400

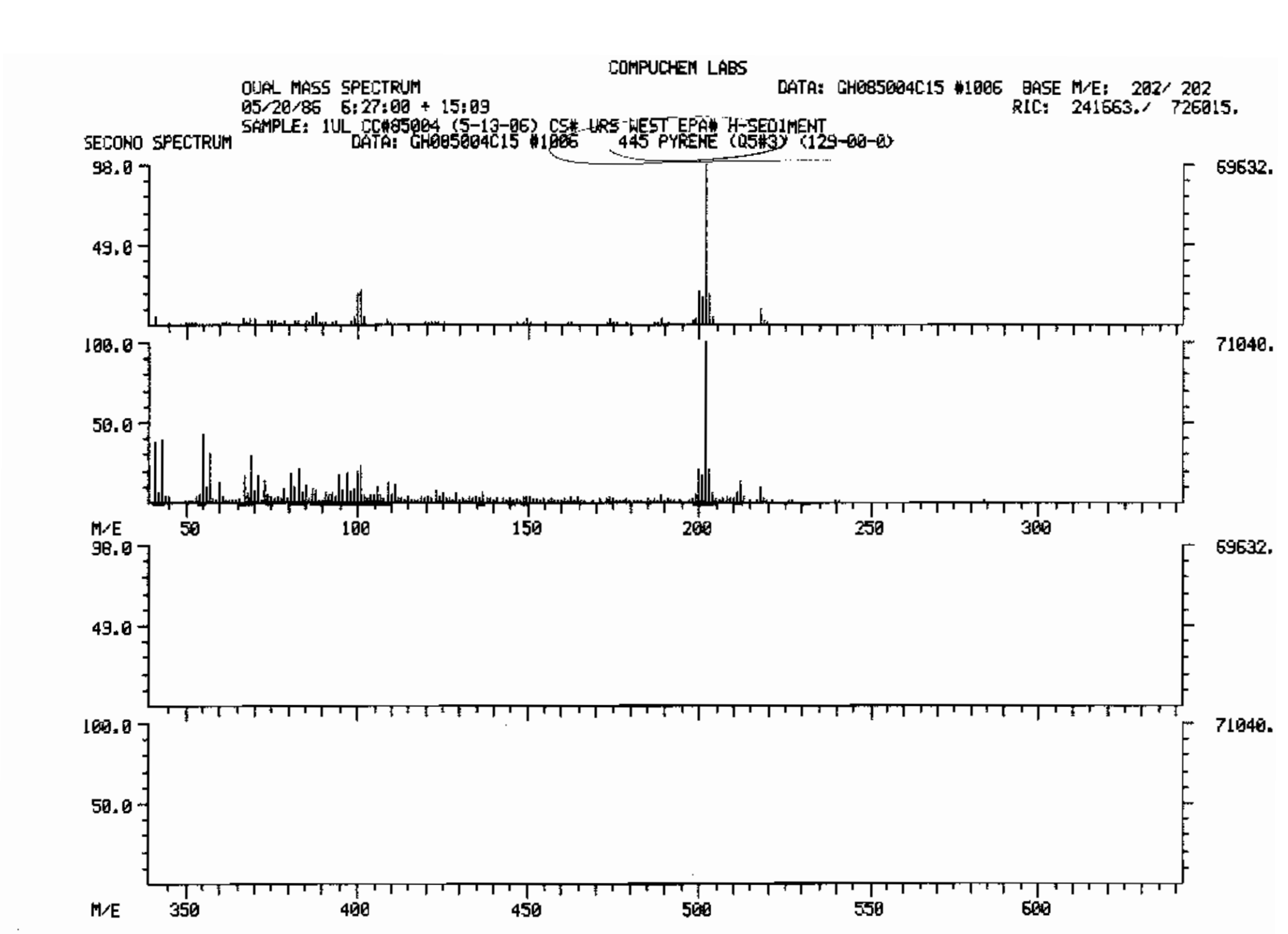
COMPUCHEM LABS

DUAL MASS SPECTRUM
05/20/86 6:27:00 + 14:50
DATA: GH085004C15 #985 BASE M/E: 202/ 202
RIC: 478719./ 893951.
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H=SEDIMENT

SECOND SPECTRUM
DATA: GH085004C15 #985 431 FLUORANTHENE (Q4#10) <206-44-0>




COMPUCHEM LABS
LIBRARY SEARCH
05/20/86 6:27:00 + 15:09
DATA: GH085004C15 #1006
ENHANCED (100 2N 0T)
BASE M/E: 202
RIC: 226303.
SAMPLE: 1UL CC#05004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
1022
SAMPLE
445 PYRENE (CS#3) (129-00-0)
C16.H10
M WT202
3 PK 202
RANK 1
IN 3
PUR 785
SAMPLE MINUS LIBRARY
1022
0
-1022
M/E
50
100
150
200
250
300
350

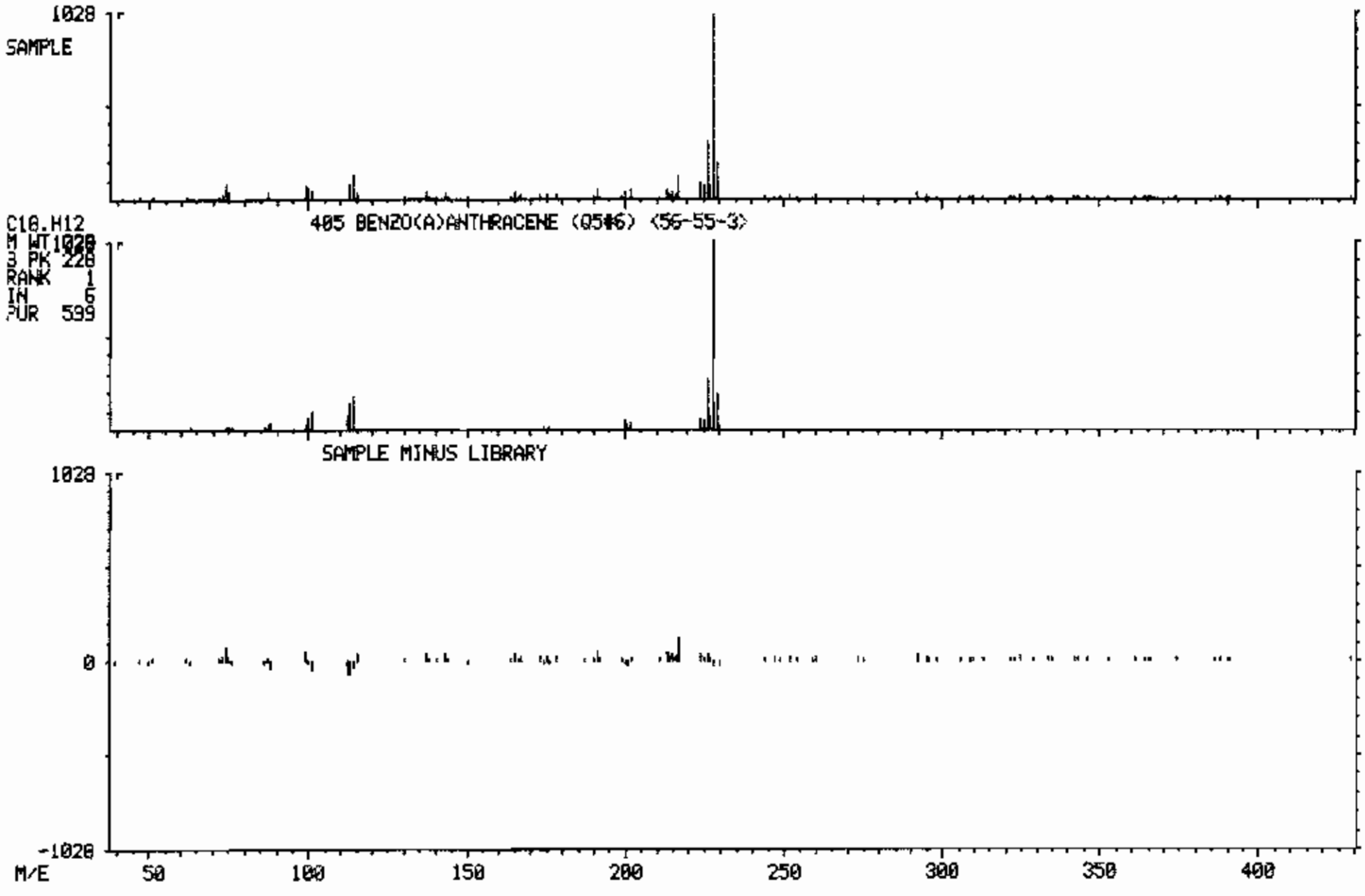

COMPUCHEM LABS
DUAL MASS SPECTRUM
DATA: GH085004C15 #1006 BASE M/E: 202/ 202
05/20/86 6:27:00 + 15:09
RIC: 241663./ 726015.
SAMPLE: 1UL CC#85004 (5-13-06) CS# URS WEST EPA# H-SEDIMENT
SECOND SPECTRUM
DATA: GH085004C15 #1006 445 PYRENE (QS#3) (129-00-0)
98.0
49.0
69632.
100.0
50.0
71040.
M/E
50
100
150
200
250
300
98.0
49.0
69632.
100.0
50.0
71040.
M/E
350
400
450
500
550
600

COMPUCHEM LABS

LIBRARY SEARCH
05/20/86 6:27:00 + 16:54
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT

DATA: GH0C5004C15 #1122
ENHANCED (18B 2N 0T)

BASE M/E: 228
RIC: 75903.

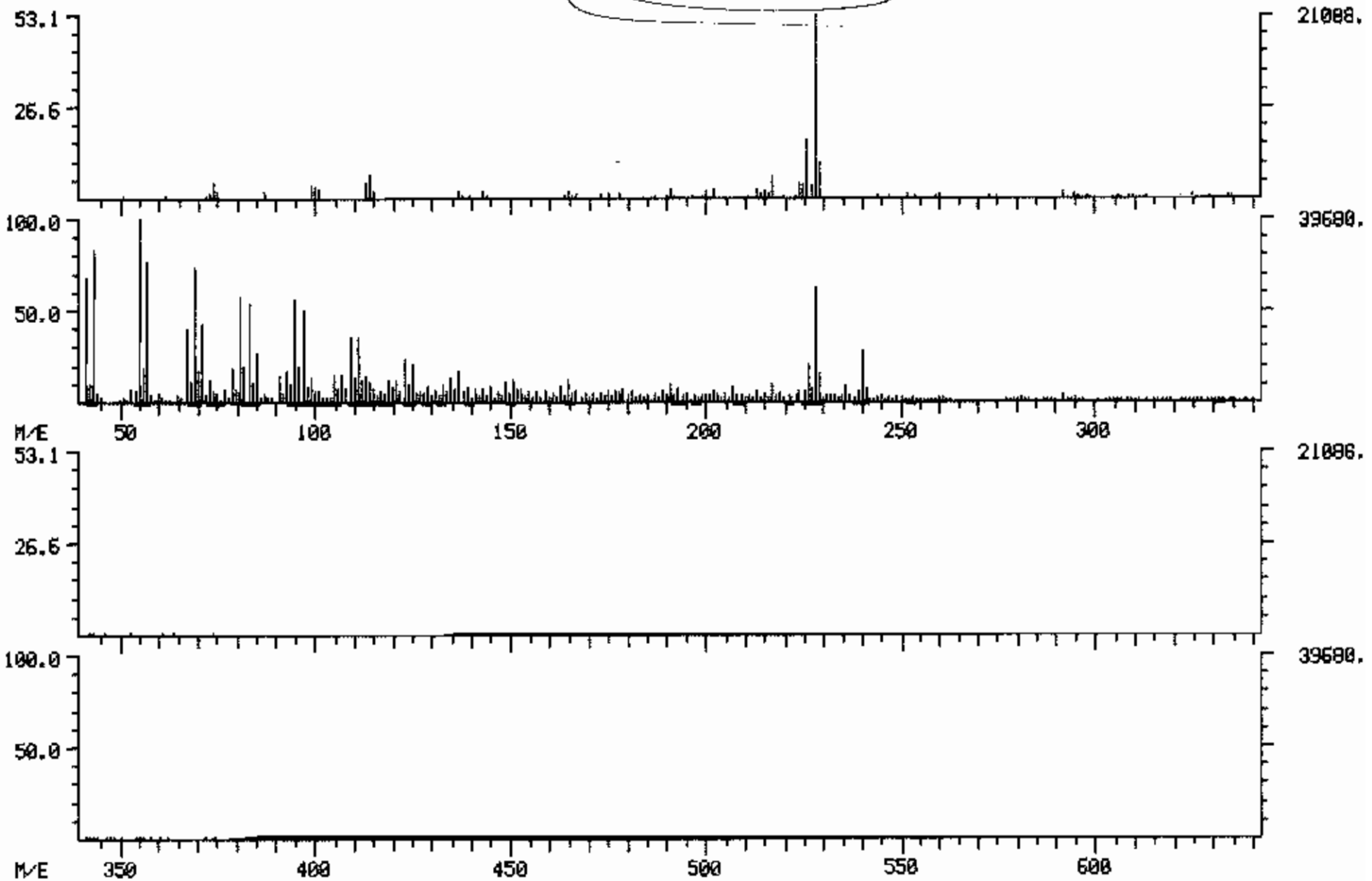


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/20/86 6:27:00 + 16:54
SAMPLE: 1UL CC#05004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT

DATA: GH005004C15 #1122 BASE M/E: 228/ 55
RIC: 76799./ 842751.

SECOND SPECTRUM DATA: GH005004C15 #1122 405 BENZO(A)ANTHRACENE (CS#6) (56-55-3)

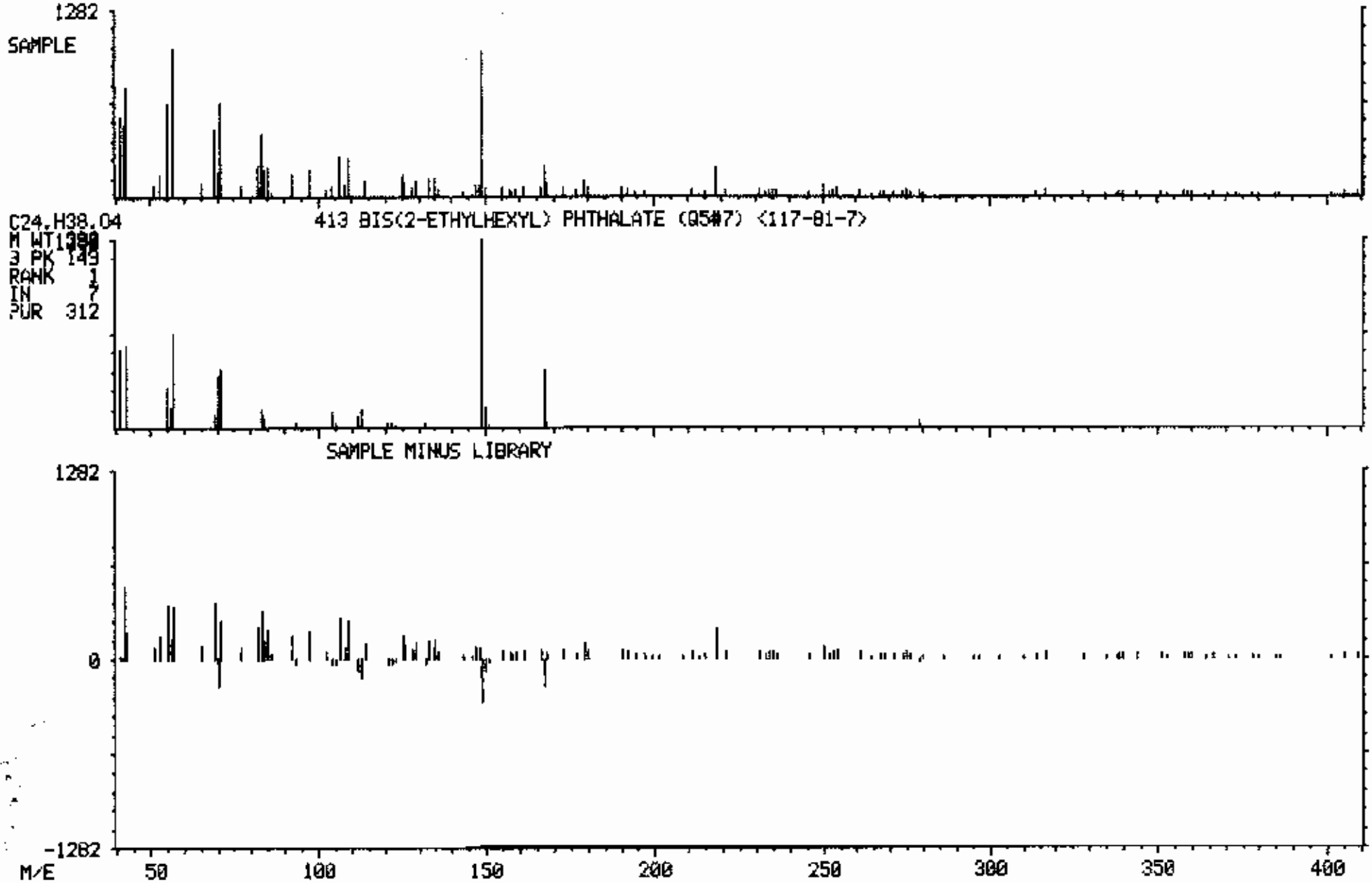


COMPUCHEM LABS

LIBRARY SEARCH
85/20/06 6:27:00 + 17:03
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT

DATA: GH085004C15 #1132
ENHANCED (10B 2N 0T)

BASE M/E: 57
RIC: 114303.

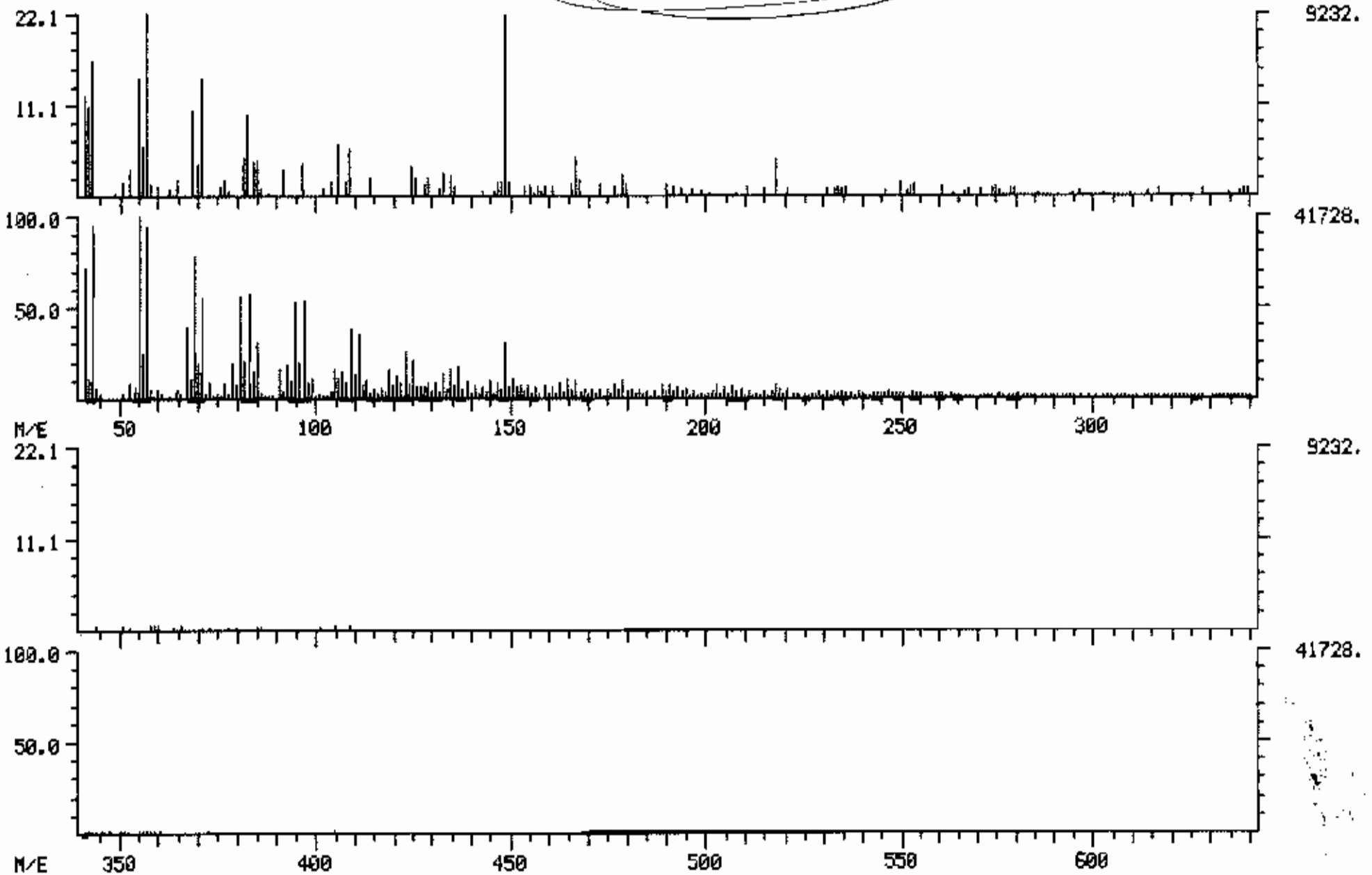


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/20/86 5:27:00 + 17:03
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT

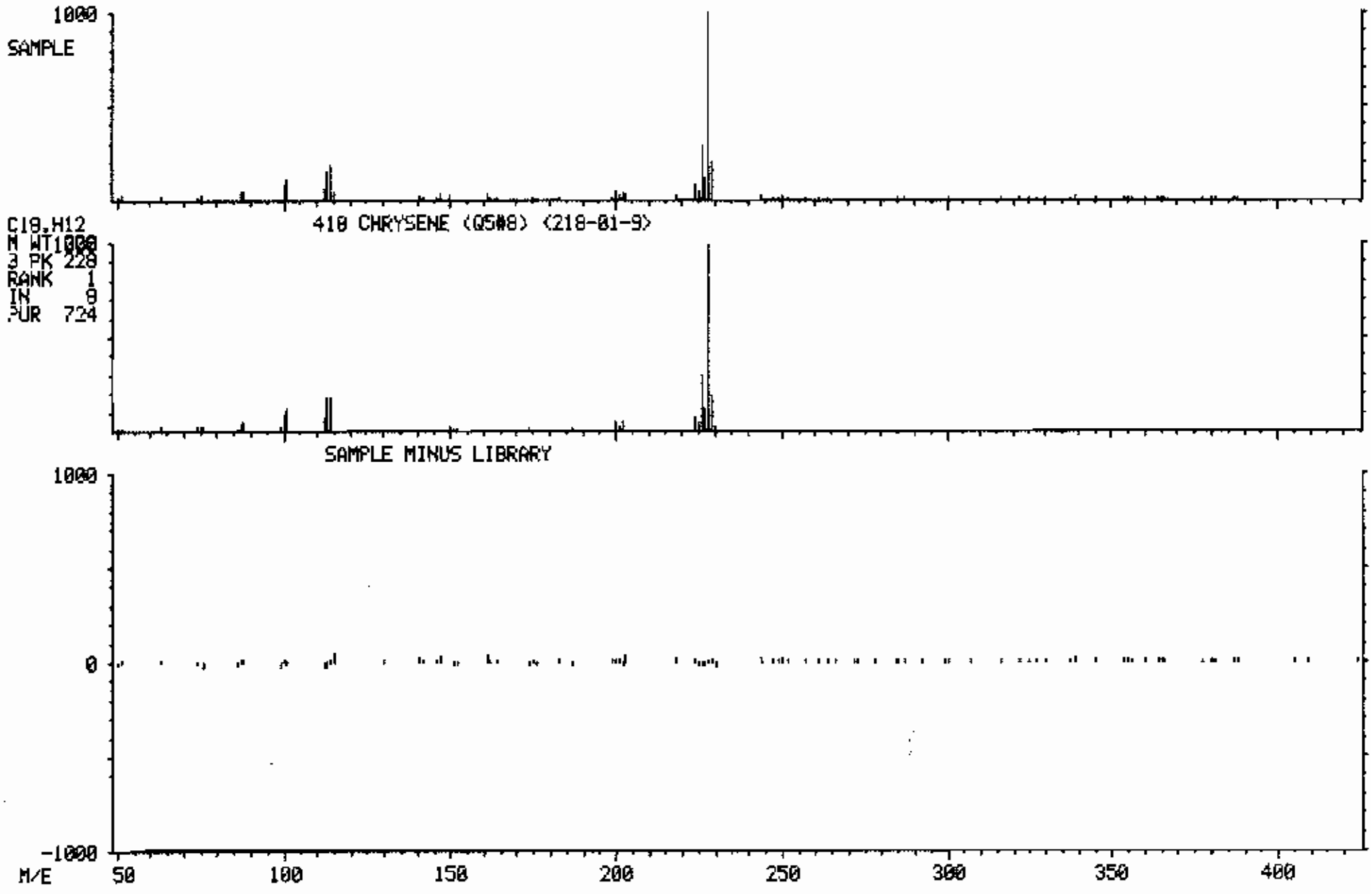
DATA: GH085004C15 #1132 BASE M/E: 57/ 55
RIC: 117375./ 844799.

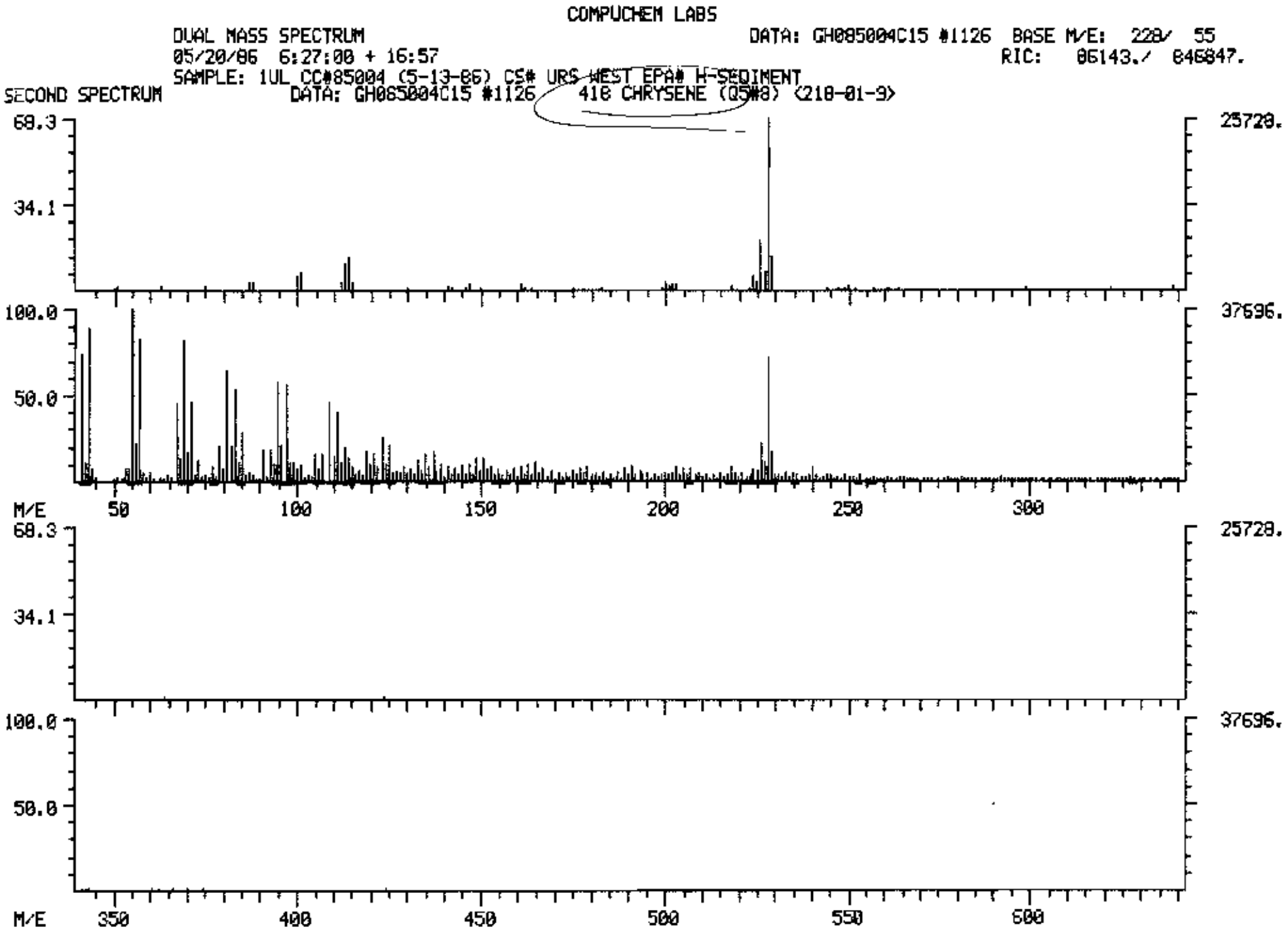
SECOND SPECTRUM DATA: GH085004C15 #1182 413 BIS(2-ETHYLHEXYL) PHTHALATE (Q5#7) (117-81-7)



COMPUCHEM LABS

LIBRARY SEARCH
05/20/86 6:27:80 + 16:57
DATA: CH085004C15 #1126
ENHANCED (10B 2N 0T)
BASE M/E: 220
RIC: 85887.
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT



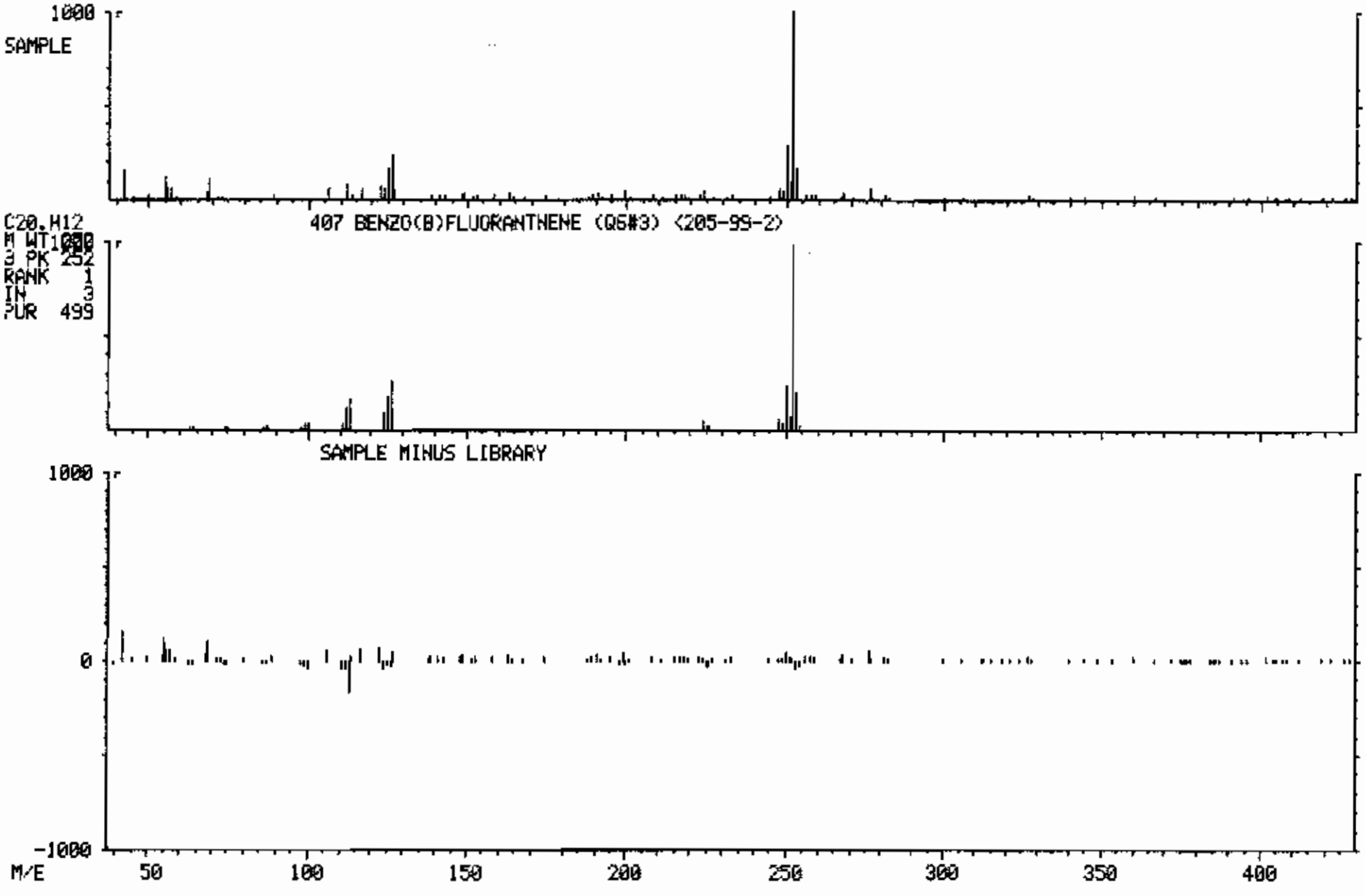

COMPUCHEM LABS
DUAL MASS SPECTRUM
DATA: GH085004C15 #1126 BASE M/E: 228/ 55
05/20/86 6:27:00 + 16:57
RIC: 86143./ 846847.
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
SECOND SPECTRUM
DATA: GH085004C15 #1126 416 CHRYSENE (Q5#8) <218-01-9>
68.3
34.1
25720.
100.0
50.0
37696.
M/E
50
100
150
200
250
300
68.3
34.1
25720.
100.0
50.0
37696.
M/E
350
400
450
500
550
600

COMPUCHEM LABS

LIBRARY SEARCH
05/20/86 6:27:00 + 18:34
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT

DATA: GH085004C15 #1233
ENHANCED (100 2N 0T)

BASE M/E: 252
RIC: 76799.

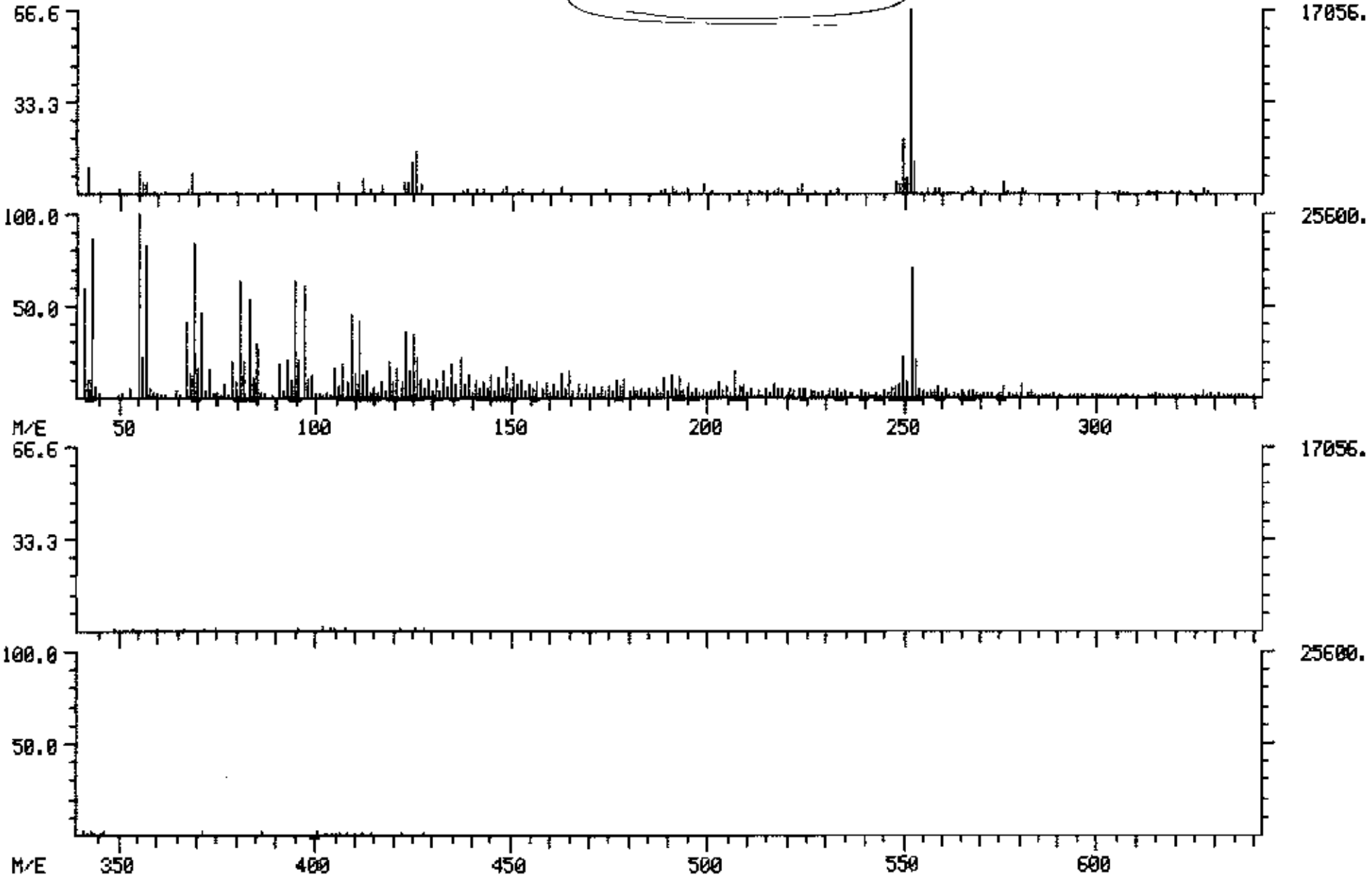


COMPUCHEM LABS

DUAL MASS SPECTRUM
05/20/86 6:27:00 + 10:34
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT

DATA: GH085004C15 #1233 BASE M/E: 252/ 55
RIC: 77439./ 611327.

SECOND SPECTRUM DATA: GH085004C15 #1233 407 BENZO(B)FLUORANTHENE (Q6#3) <205-99-2>

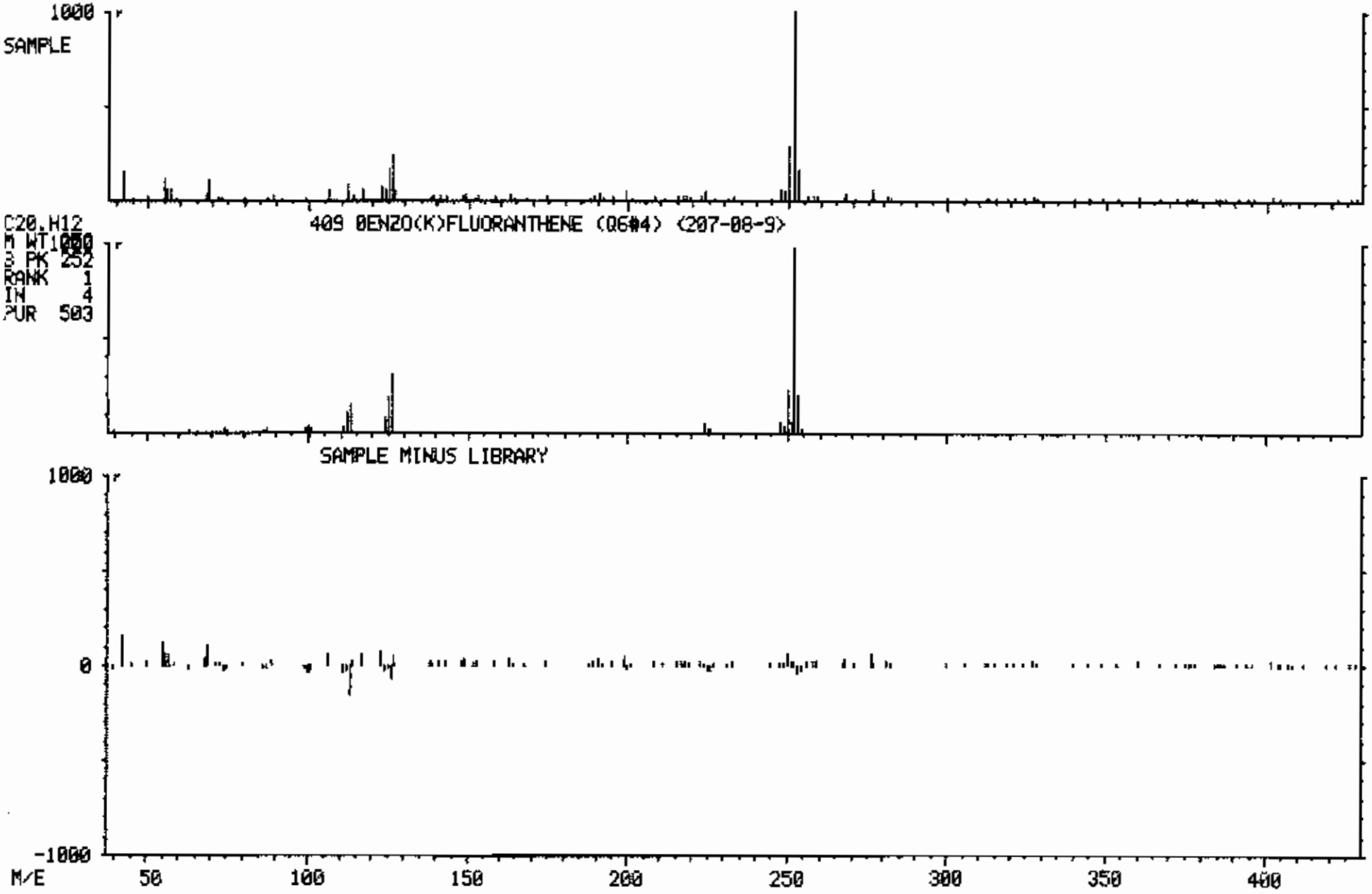


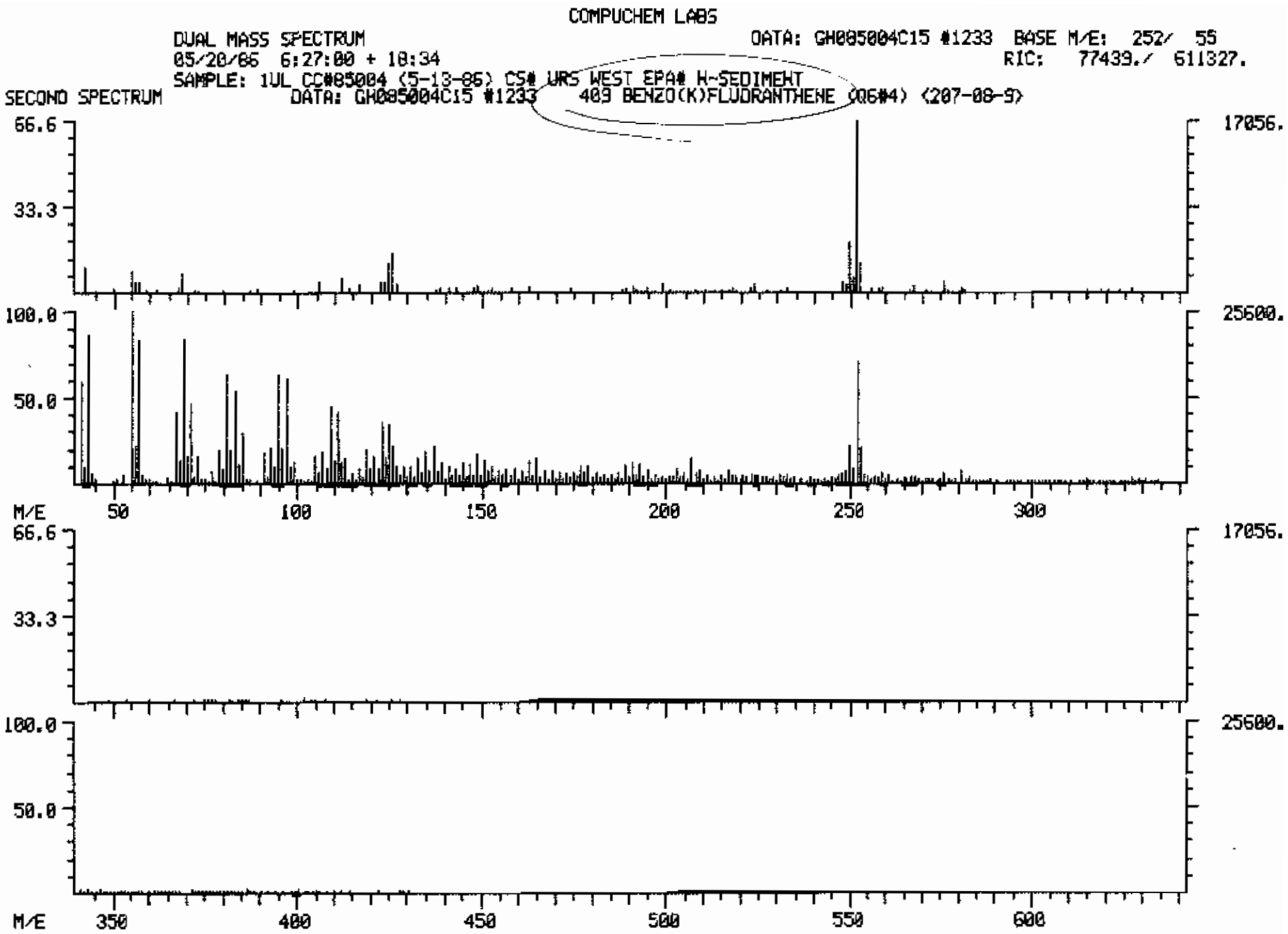
COMPUCHEM LABS

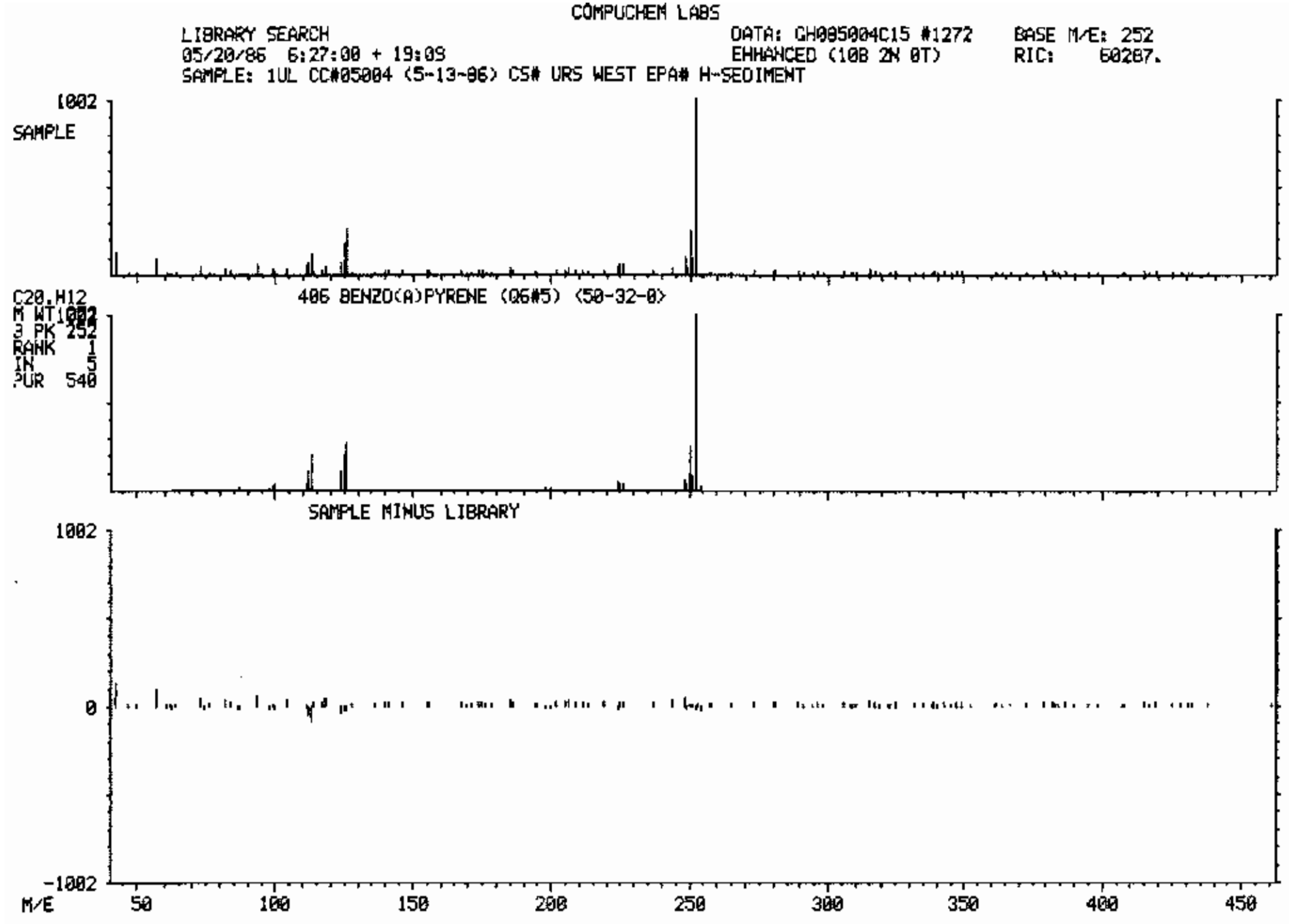
LIBRARY SEARCH
05/20/86 6:27:00 + 18:34
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT

DATA: GH085004C15 #1233
ENHANCED (10B 2N 0T)

BASE M/E: 252
RIC: 76799.




COMPUCHEM LABS
DUAL MASS SPECTRUM
DATA: GH005004C15 #1233 BASE M/E: 252/ 55
05/20/86 6:27:00 + 18:34
RIC: 77439./ 611327.
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
SECOND SPECTRUM
DATA: GH005004C15 #1233 409 BENZO(K)FLUORANTHENE (QC#4) (207-08-9)
66.6
33.3
17056.
100.0
50.0
25600.
M/E
50
100
150
200
250
300
66.6
33.3
17056.
100.0
50.0
25600.
M/E
350
400
450
500
550
600

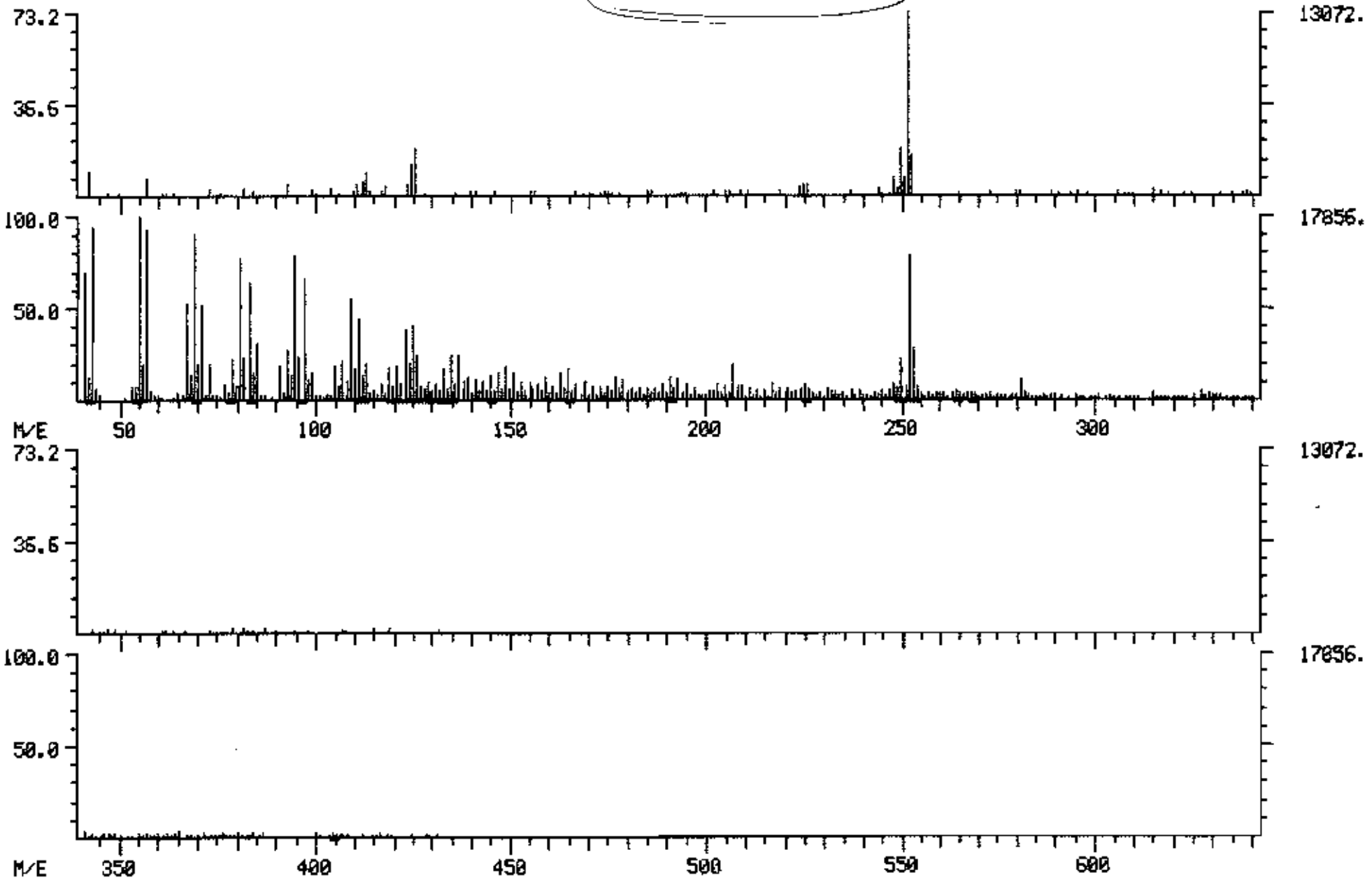

COMPUCHEM LABS
LIBRARY SEARCH
05/20/86 6:27:00 + 19:09
SAMPLE: 1UL CC#05004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
DATA: GH005004C15 #1272
ENHANCED (10B 2N 0T)
BASE M/E: 252
RIC: 60287.
1002
SAMPLE
406 BENZO(A)PYRENE (Q6#5) (50-32-8)
C20.H12
M WT 252
3 PK 252
RANK 1
IN 5
PUR 540
SAMPLE MINUS LIBRARY
1002
0
-1002
M/E
50
100
150
200
250
300
350
400
450

COMPUCHEM LABS

DUAL MASS SPECTRUM
05/20/86 6:27:00 + 19:09
SAMPLE: 1UL CC#05004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
DATA: GH005004C15 #1272 406 BENZO(A)PYRENE (05#5) (50-32-8)

DATA: GH005004C15 #1272 BASE M/E: 252/ 55
RIC: 61503./ 505855.

SECOND SPECTRUM

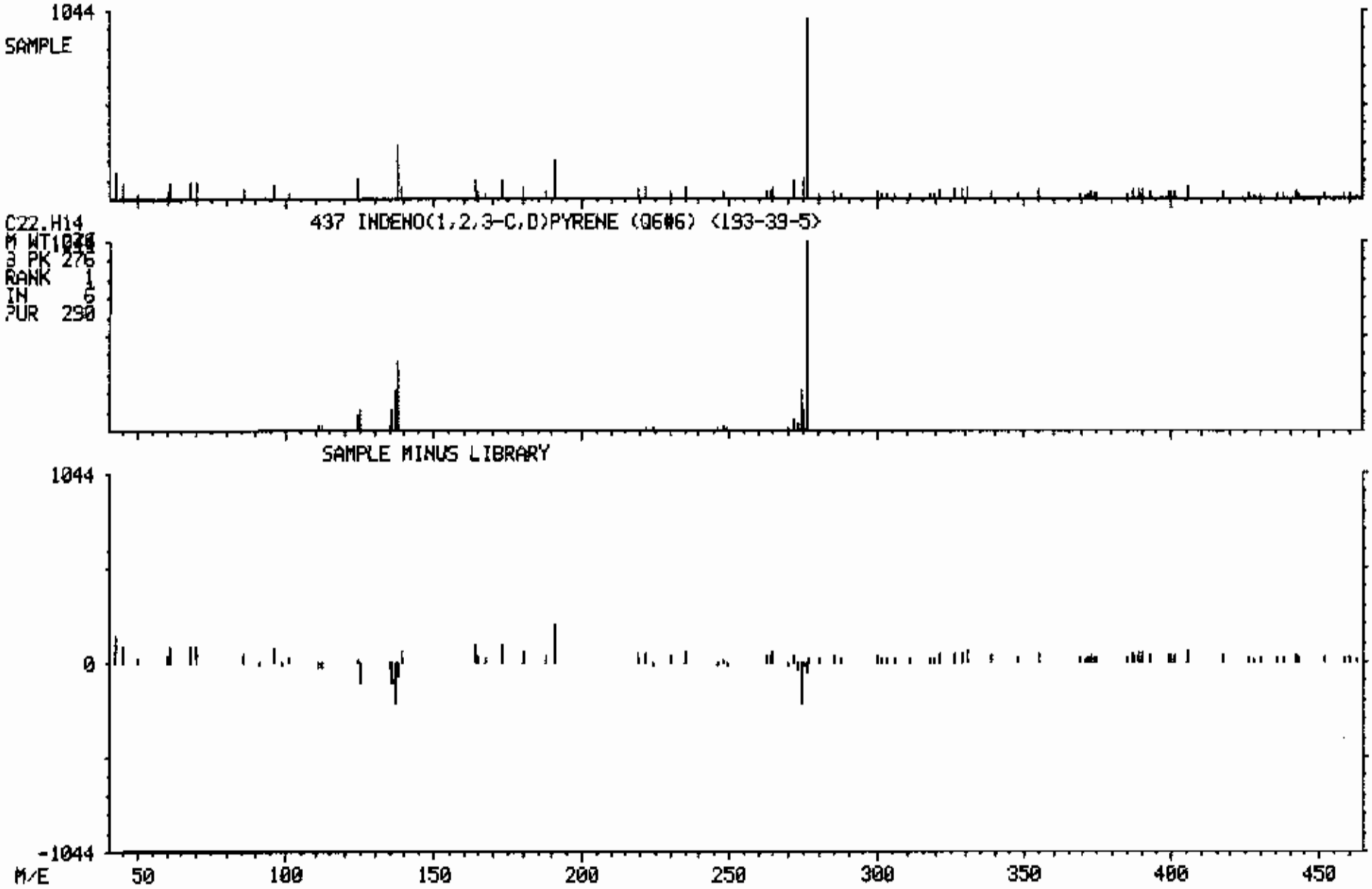


COMPUCHEM LABS

LIBRARY SEARCH
05/20/86 6:27:00 + 21:57
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# N-SEDIMENT

DATA: GH005004C15 #1457
ENHANCED (10B 2N 0T)

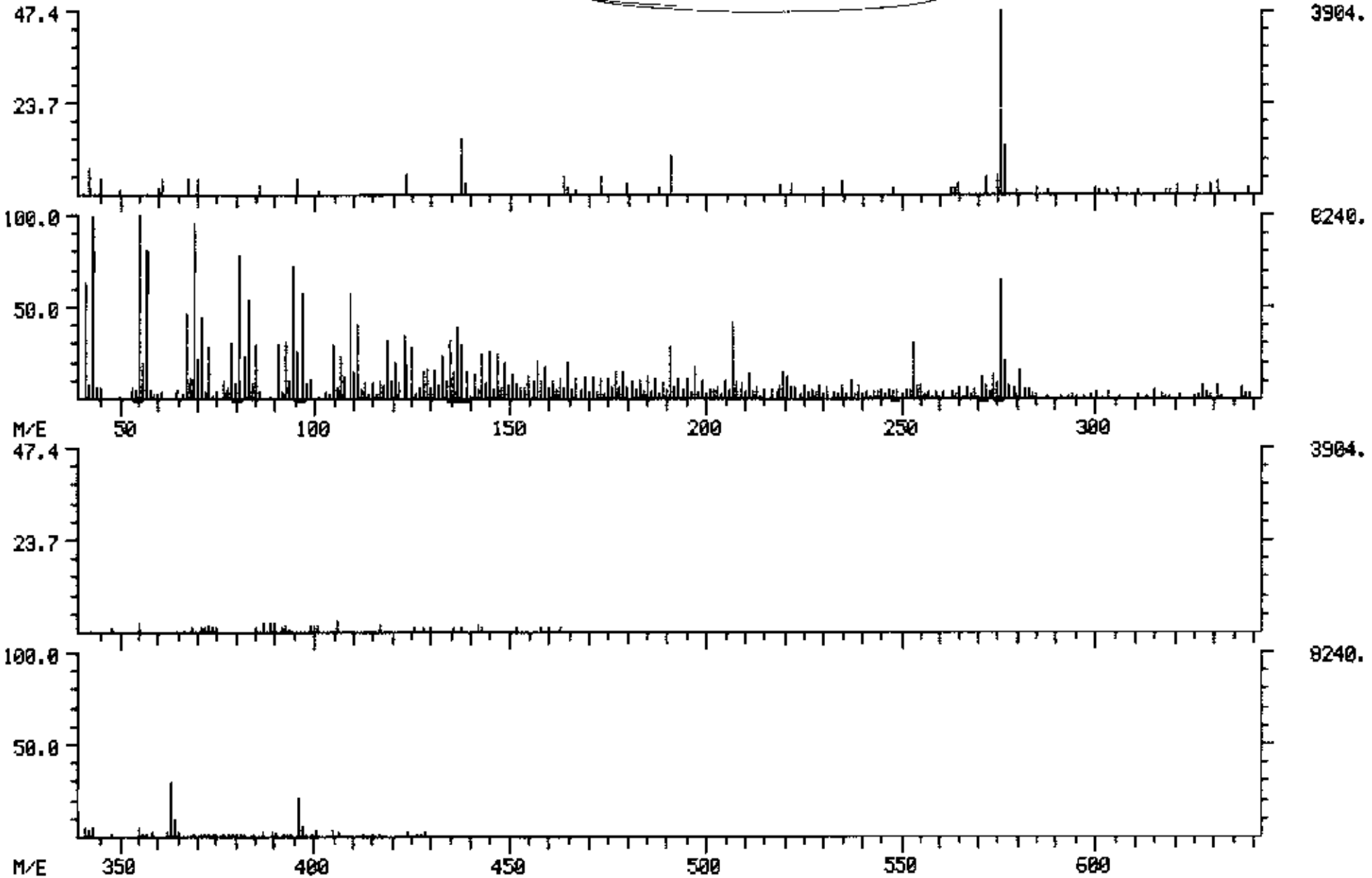
BASE M/E: 276
RIC: 19679.



COMPUCHEM LABS

DUAL MASS SPECTRUM — DATA: GH085004C15 #1457 BASE M/E: 276/ 55
05/20/86 6:27:00 + 21:57 — RIC: 19839./ 261631.
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS-WEST EPA# H-SEDIMENT

SECOND SPECTRUM — DATA: GH085004C15 #1457 437 INDENO(1,2,3-C,D)PYRENE (0606) (193-33-5)



QUANTITATION REPORT FILE: STND

DATA: GH085D04C15.TI
5/20/86 6:27:00
AMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:
SUBMITTED BY: 15 ANALYST: 619

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

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	442	6:39	5	0.393	A BB	1066950.	81.530	15.20
2	RIC	557	8:23	5	0.496	A BV	1263010.	96.511	17.99
3	RIC	726	10:56	5	0.646	A BV	1034520.	79.052	14.74
4	RIC	867	13:03	5	0.771	A VB	1097540.	83.867	15.63
5	RIC	1124	16:56	5	1.000	A VV	1308660.	100.000	18.64
6	RIC	1280	19:17	5	1.139	A VB	1249790.	95.501	17.80

QUANTITATION REPORT FILE: UNKNOWN

DATA: GH085004C15.TI
 /20/86 6:27:00
AMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:
SUBMITTED BY: 15 ANALYST: 619

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

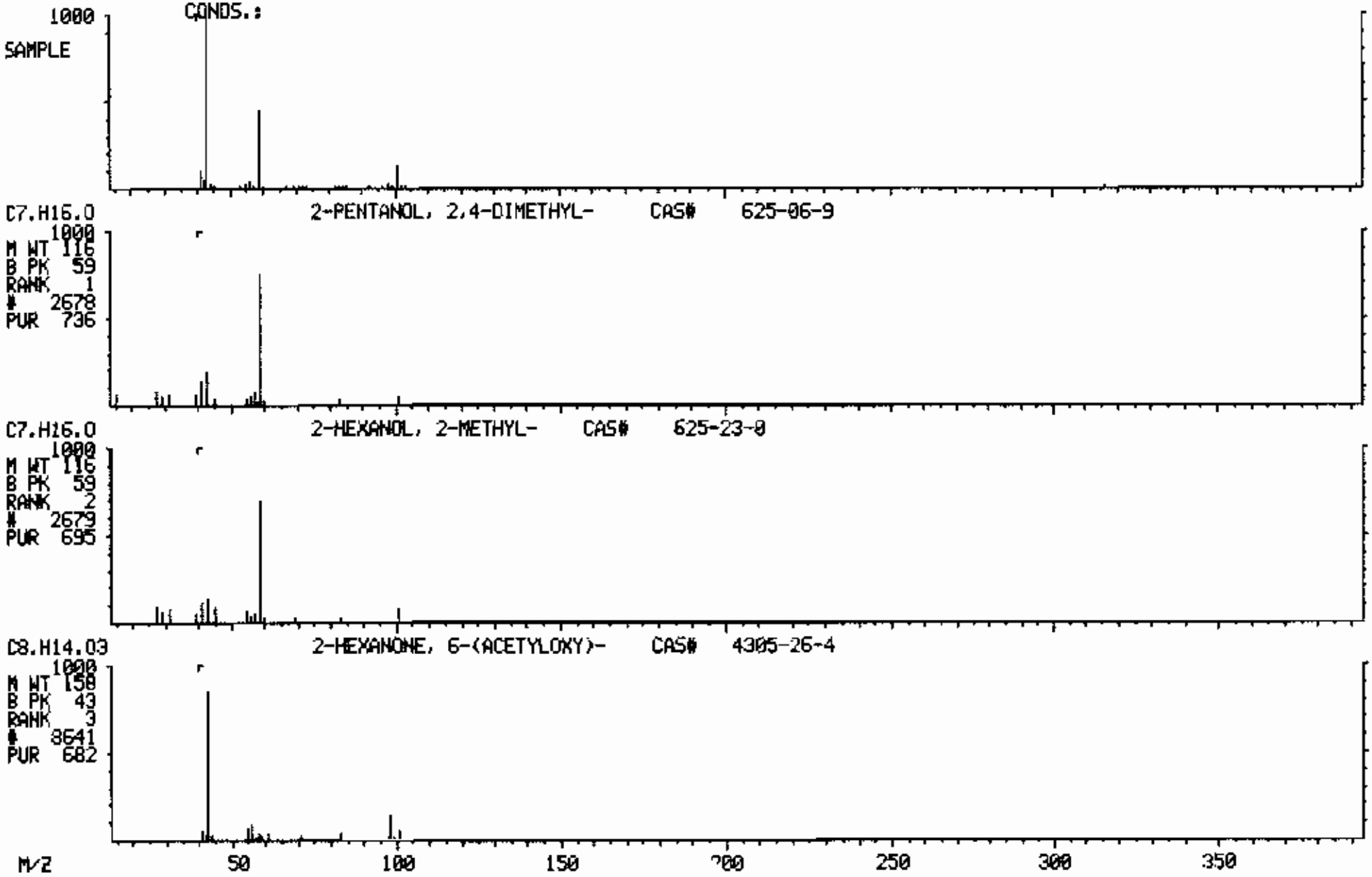
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	310	4:40	13	0.334	A BB	2827270.	34.598	4.47
2	RIC	329	4:57	13	0.355	A BV	3214390.	39.335	5.08
3	RIC	355	5:21	13	0.383	A BB	899096.	11.002	1.42
4	RIC	588	8:51	13	0.634	A BV	588231.	7.198	0.93
5	RIC	631	9:30	13	0.681	A BV	143637.	1.758	0.23
6	RIC	732	11:01	13	0.790	A VB	618598.	7.570	0.98
7	RIC	751	11:19	13	0.810	A BB	90304.	1.105	0.14
8	RIC	826	12:26	13	0.891	A BB	113536.	1.389	0.18
9	RIC	842	12:41	13	0.908	A BD	986464.	12.072	1.56
10	RIC	881	13:16	13	0.950	A BB	275712.	3.374	0.44
11	RIC	912	13:44	13	0.984	A BB	178688.	2.187	0.28
12	RIC	919	13:50	13	0.991	A BV	552448.	6.760	0.87
13	RIC	927	13:58	13	1.000	A VB	8171770.	100.000	12.91
14	RIC	942	14:11	13	1.016	A BV	315072.	3.856	0.50
15	RIC	973	14:39	13	1.050	A BB	118784.	1.454	0.19
16	RIC	978	14:44	13	1.055	A BV	212992.	2.606	0.34
17	RIC	995	14:59	13	1.073	A VV	4203000.	51.433	6.64
8	RIC	1014	15:16	13	1.094	A BB	207104.	2.534	0.33
19	RIC	1039	15:39	13	1.121	A VV	293376.	3.590	0.46
20	RIC	1048	15:47	13	1.131	A VV	732160.	8.960	1.16
21	RIC	1057	15:55	13	1.140	A VB	260608.	3.189	0.41
22	RIC	1062	16:00	13	1.146	A BB	215040.	2.631	0.34
23	RIC	1074	16:10	13	1.159	A BV	530432.	6.491	0.84
24	RIC	1080	16:16	13	1.165	A VV	410624.	5.025	0.65
25	RIC	1092	16:27	13	1.178	A VB	147456.	1.804	0.23
26	RIC	1100	16:34	13	1.187	A BV	350720.	4.292	0.55
27	RIC	1111	16:44	13	1.198	A VV	2231800.	27.311	3.53
28	RIC	1132	17:03	13	1.221	A VB	604569.	7.398	0.96
29	RIC	1143	17:13	13	1.233	A BV	1092600.	13.371	1.73
30	RIC	1155	17:24	13	1.246	A VV	765952.	9.373	1.21
31	RIC	1161	17:29	13	1.252	A VV	1410040.	17.255	2.23
32	RIC	1173	17:40	13	1.265	A VV	5602300.	68.557	8.85
33	RIC	1186	17:52	13	1.279	A VB	398336.	4.875	0.63
34	RIC	1206	18:10	13	1.301	A VV	1362940.	16.679	2.15
35	RIC	1222	18:24	13	1.318	A VB	1295350.	15.852	2.05
36	RIC	1234	18:35	13	1.331	A BV	519168.	6.353	0.82
37	RIC	1246	18:46	13	1.344	A VV	7548920.	92.378	11.93
38	RIC	1256	18:55	13	1.355	A VB	686080.	8.396	1.08
39	RIC	1266	19:04	13	1.366	A BV	315904.	3.866	0.50
40	RIC	1271	19:08	13	1.371	A VV	154112.	1.886	0.24
41	RIC	1289	19:25	13	1.391	A BV	137728.	1.685	0.22
42	RIC	1293	19:28	13	1.395	A VV	225792.	2.763	0.36
43	RIC	1300	19:35	13	1.402	A VB	176128.	2.155	0.28
4	RIC	1311	19:45	13	1.414	A BV	903168.	11.052	1.43
45	RIC	1330	20:02	13	1.435	A BB	145152.	1.776	0.23
46	RIC	1346	20:16	13	1.452	A BV	2315770.	28.339	3.66

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
47	RIC	1361	20:30	13	1.468	A VB	122880.	1.504	0.19
48	RIC	1372	20:40	13	1.480	A BB	389120.	4.762	0.61
49	RIC	1387	20:53	13	1.496	A BV	235850.	2.886	0.37
50	RIC	1399	21:04	13	1.509	A VB	2443180.	29.898	3.86
51	RIC	1416	21:19	13	1.528	A BB	119296.	1.460	0.19
52	RIC	1433	21:35	13	1.546	A BV	757350.	9.268	1.20
53	RIC	1440	21:41	13	1.553	A VB	342170.	4.187	0.54
54	RIC	1461	22:00	13	1.576	A BB	1354740.	16.578	2.14
55	RIC	1480	22:17	13	1.597	A BV	1145590.	14.019	1.81
56	RIC	1491	22:27	13	1.608	A VB	349184.	4.273	0.55
57	RIC	1506	22:41	13	1.625	A BB	1473910.	18.037	2.33

BNA 1

COMPUCHEM LABS

MID LIBRARY SEARCH — DATA: GH085004C15 # 310 — BASE M/Z: 43
05/20/86 6:27:00 + 4:40 — ENHANCED (10B 2N 0T) — RIC: 1333240.
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:



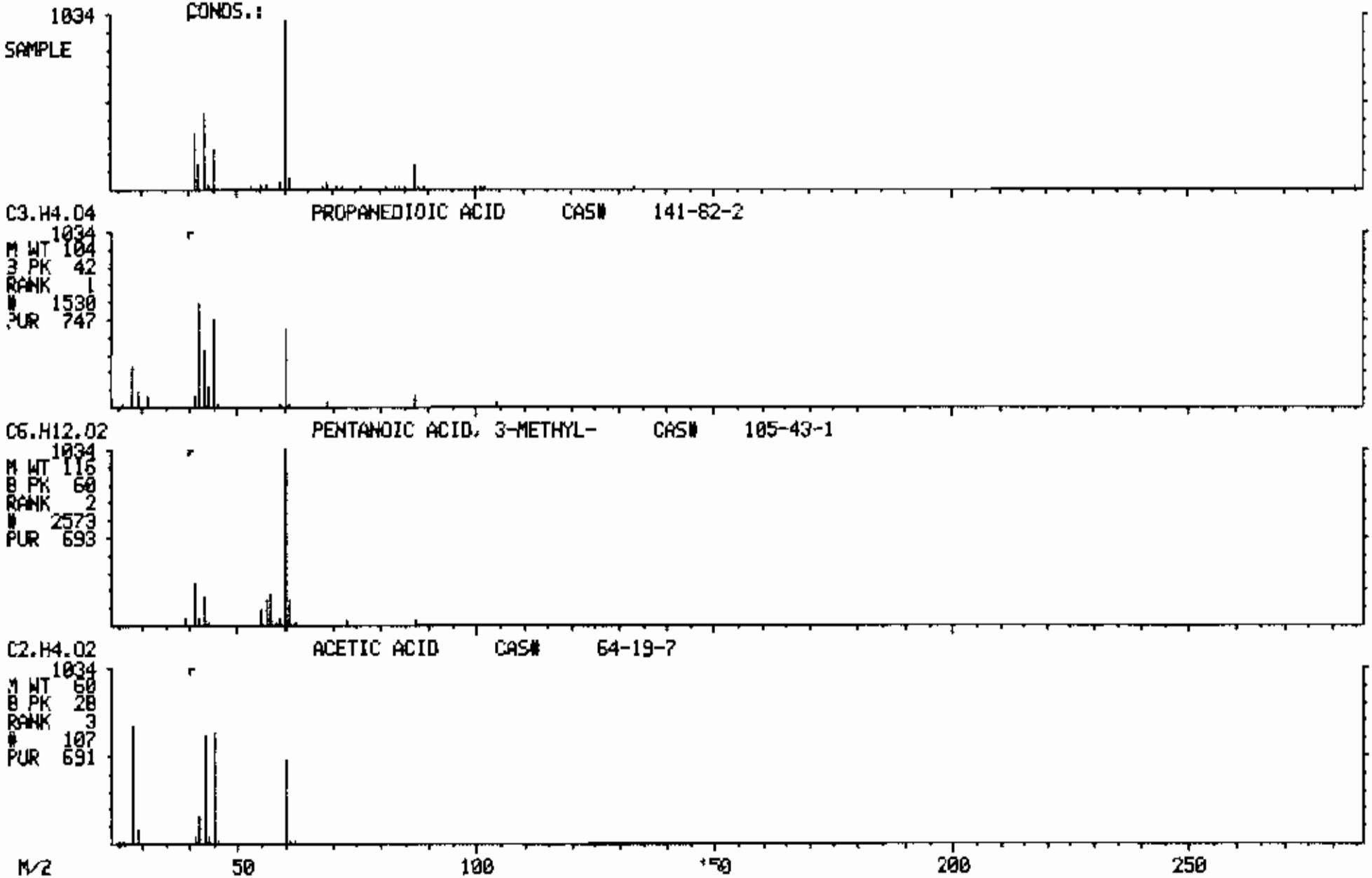
BNA2

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 4:57
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:

DATA: CH085004C15 # 329
ENHANCED (100 2H 0T)

BASE M/Z: 60
RIC: 352255.



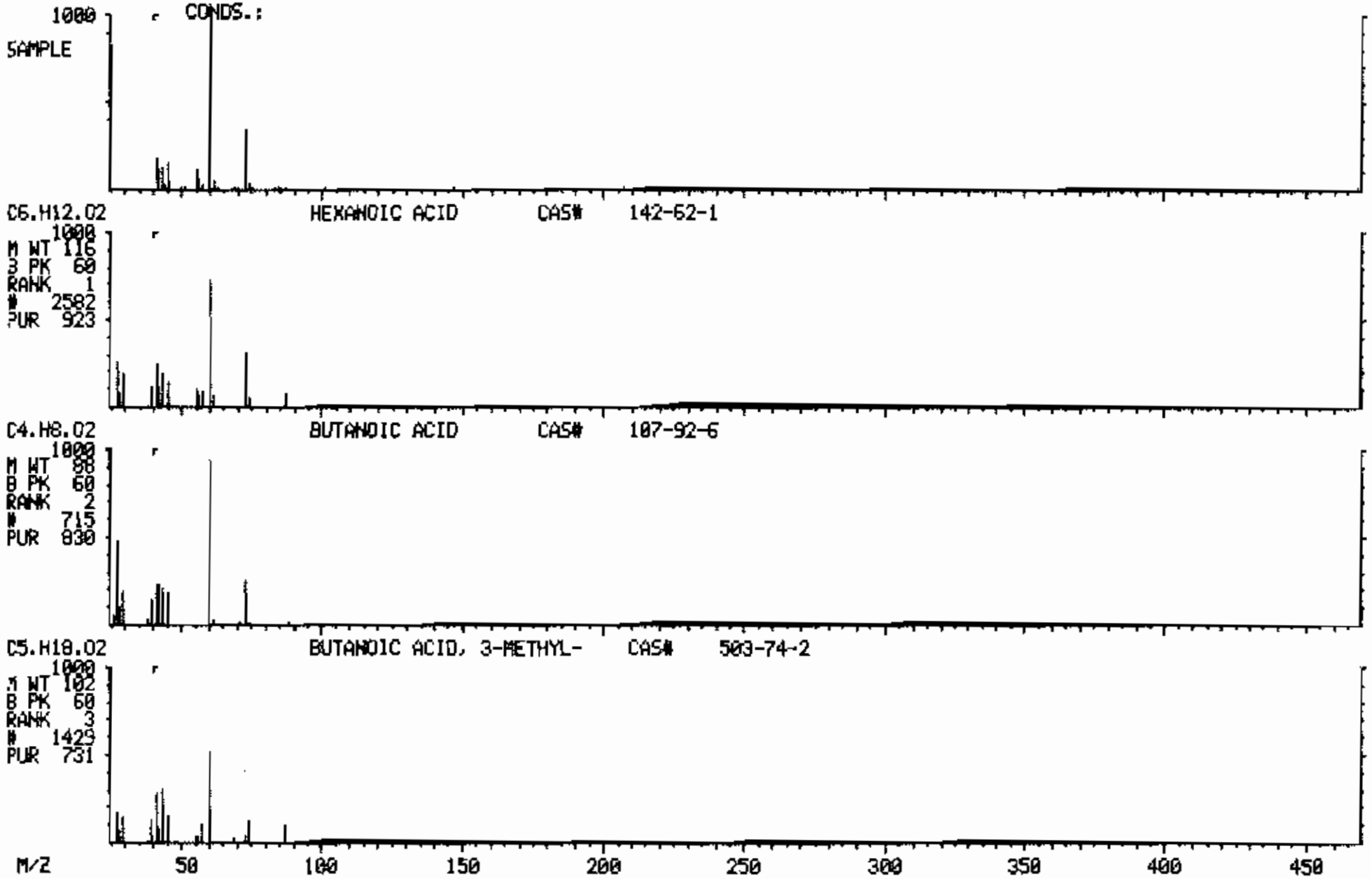
BNA 3

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 5:21
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:

DATA: GH085004C15 # 355
ENHANCED (10B 2N 0T)

BASE M/Z: 60
RIC: 223487.



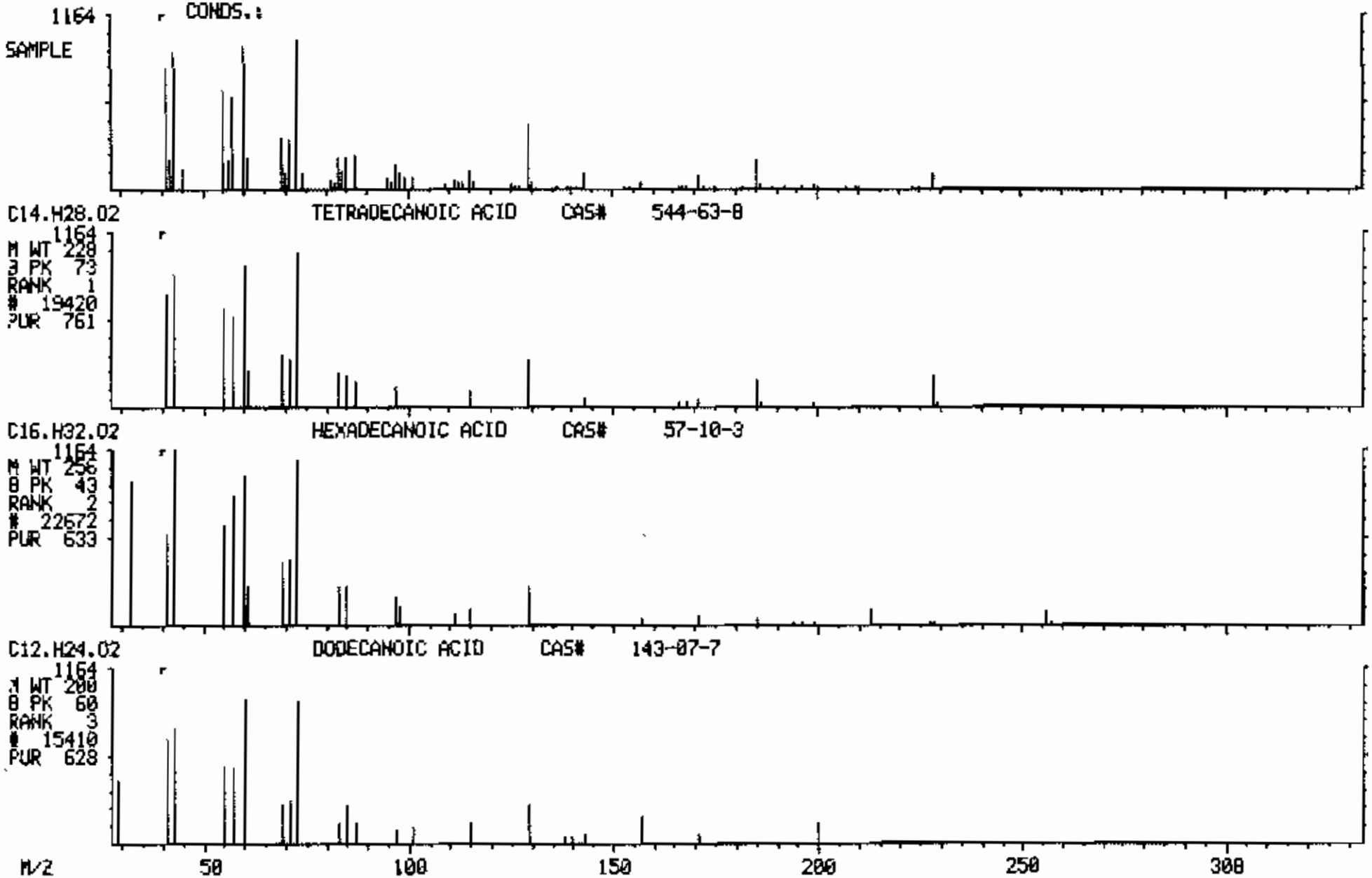
BNA 4

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 12:41
SAMPLE: 1UL CC#05004 (5-13-86) CS# URS WEST EPA# H-SEDIMEHT
CONDS.:

DATA: GH085004C15 # 842
ENHANCED (10B 2H 0T)

BASE M/Z: 73
RIC: 328191.

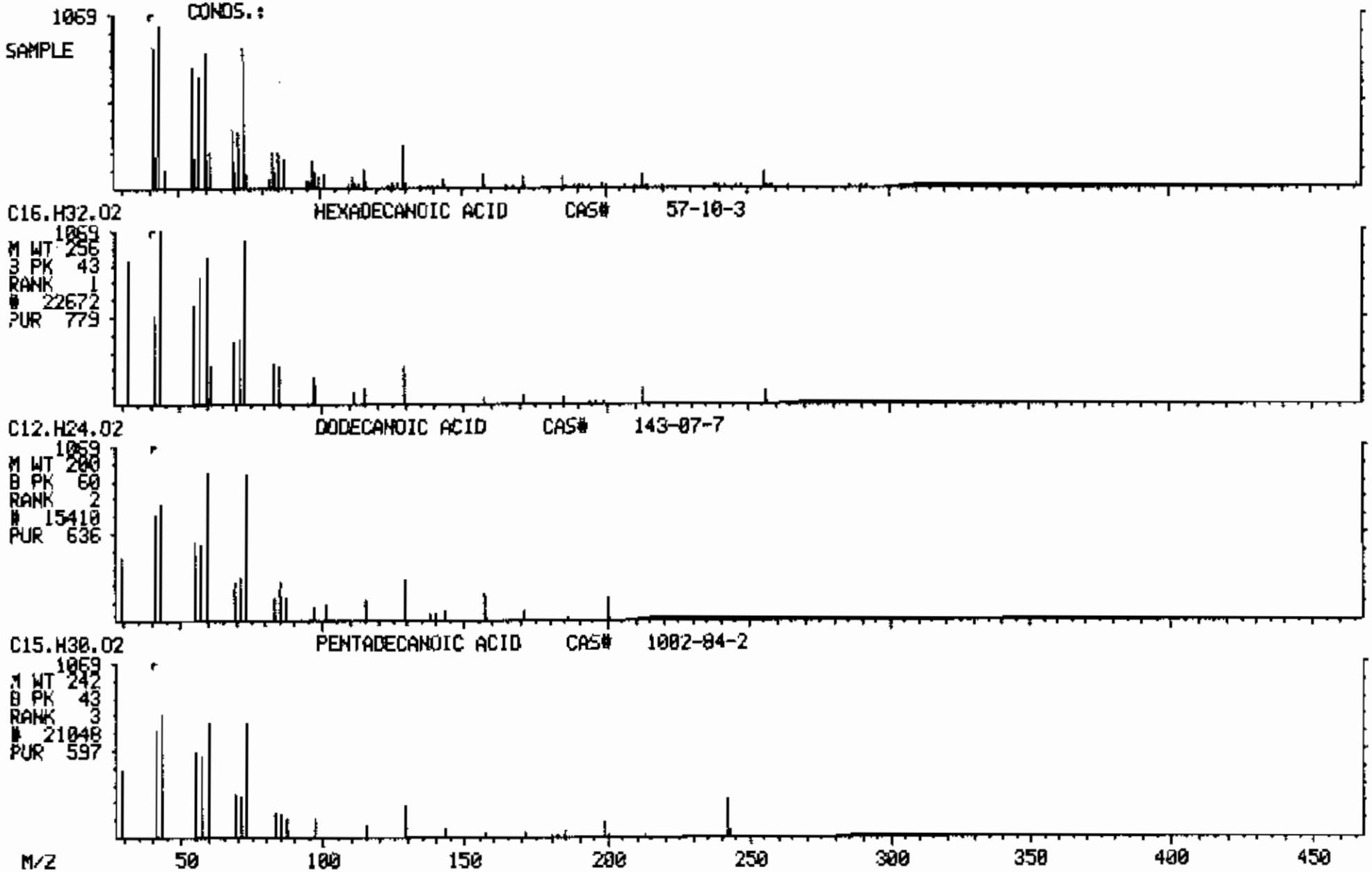


COMPUCHEM LA0S

MID LIBRARY SEARCH
05/20/86 6:27:00 + 13:58
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:

DATA: GH065004C15 # 927
ENHANCED (10B 2H 0T)

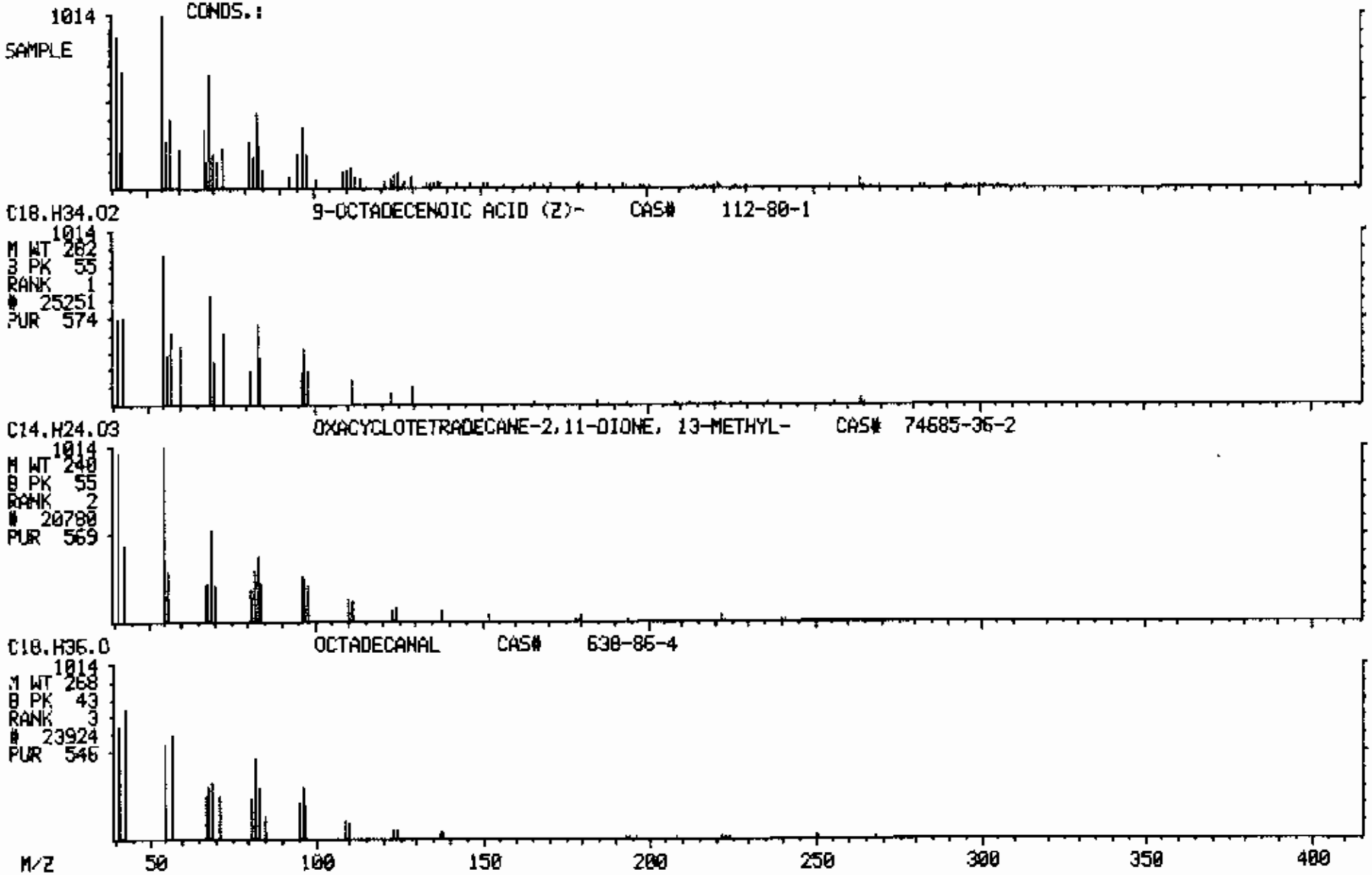
BASE M/Z: 43
RIC: 2449400.



COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 14:59
DATA: GH085004C15 # 995
ENHANCED (10B 2N 0T)
BASE M/Z: 55
RIC: 329727.

SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:



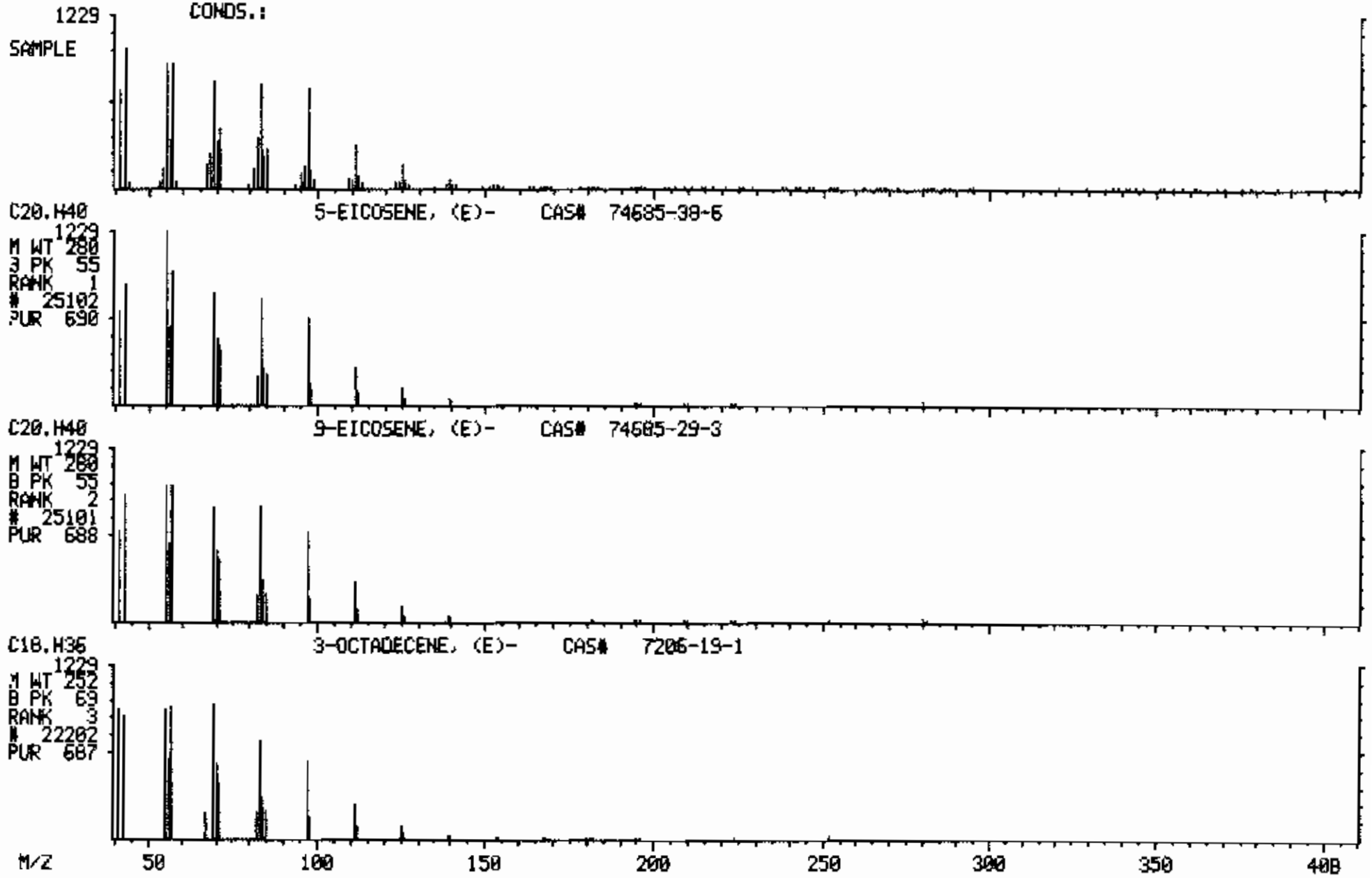
BNA 7

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 16:44
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:

DATA: GH005004C15 #1111
ENHANCED (10B 2N 0T)

BASE M/Z: 43
RIC: 540671.

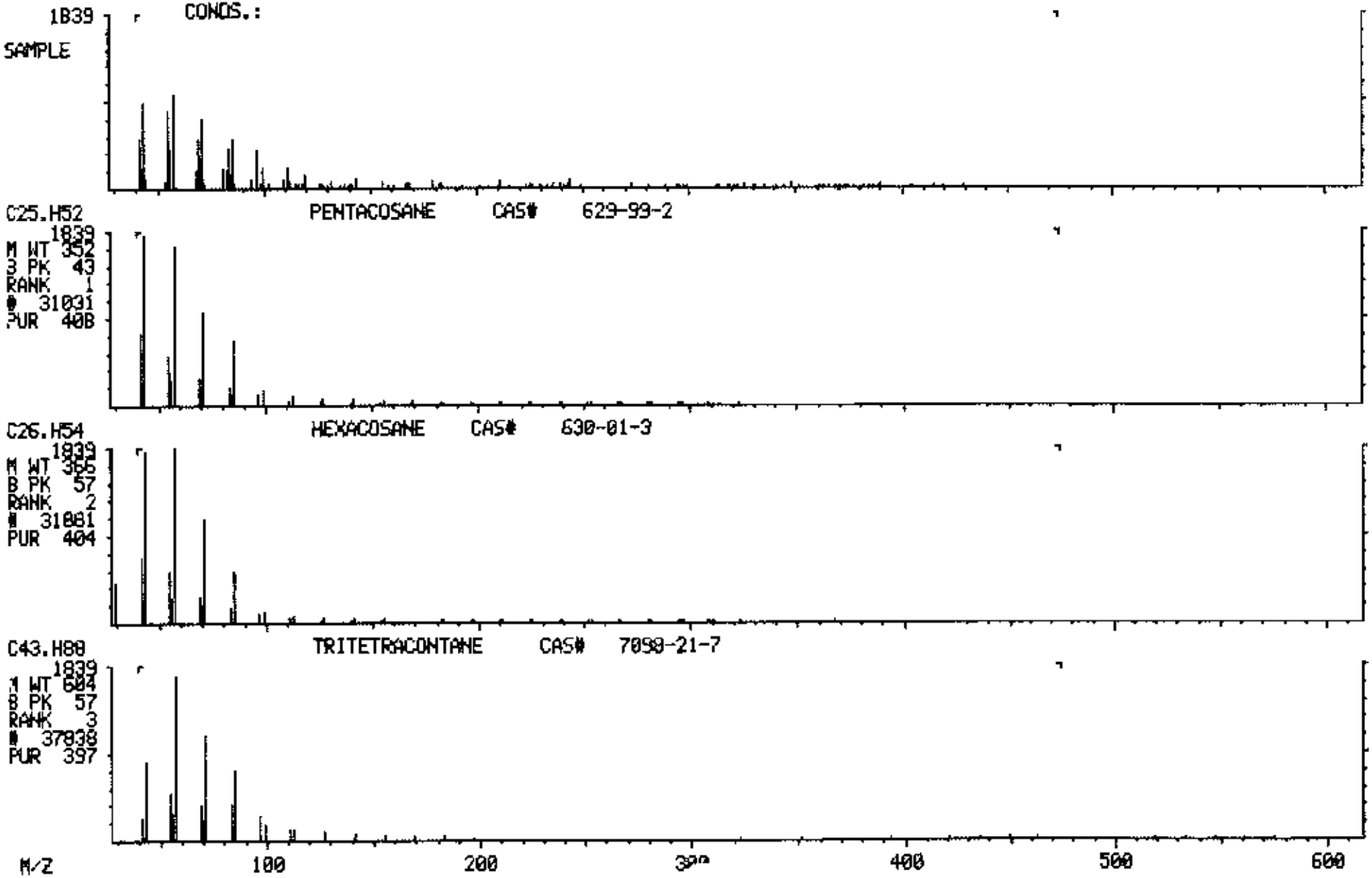


COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 17:13
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:

DATA: GH085004C15 #1143
ENHANCED (10B 2H 0T)

BASE M/Z: 57
RIC: 109823.



C25.H52 PENTACOSANE CAS# 629-99-2

1839
M WT 352
B PK 43
RANK 1
31031
PUR 408

C26.H54 HEXACOSANE CAS# 630-01-3

1839
M WT 366
B PK 57
RANK 2
31081
PUR 404

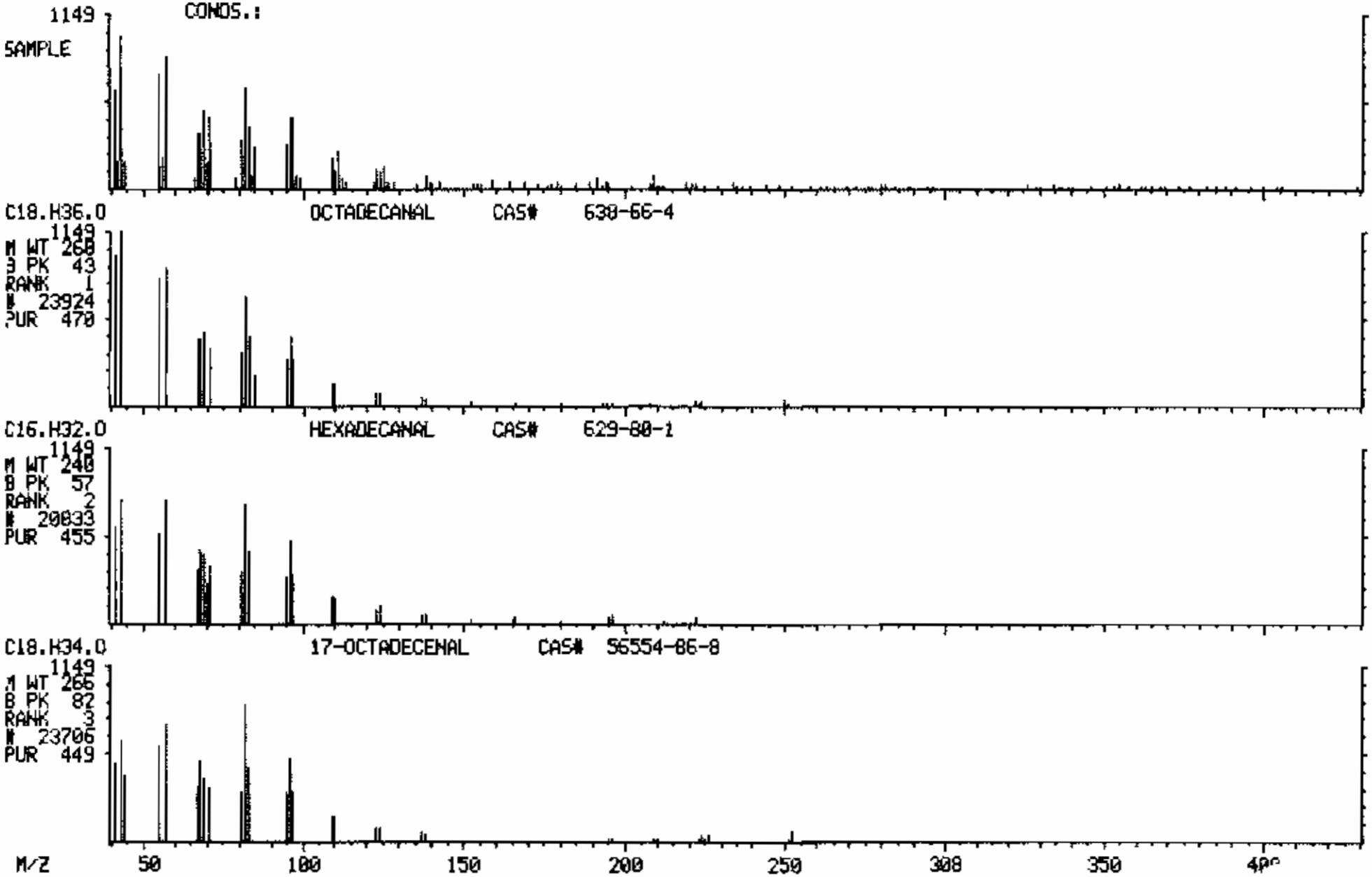
C43.H88 TRITETRACONTANE CAS# 7098-21-7

1839
M WT 604
B PK 57
RANK 3
37838
PUR 397

BNAS

COMPUCHEM LABS

MIO LIBRARY SEARCH — DATA: GH065004C15 #1155 — BASE M/Z: 43
05/20/86 6:27:00 + 17:24 — ENHANCED (10B 2N 0T) — RIC: 204799.
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:

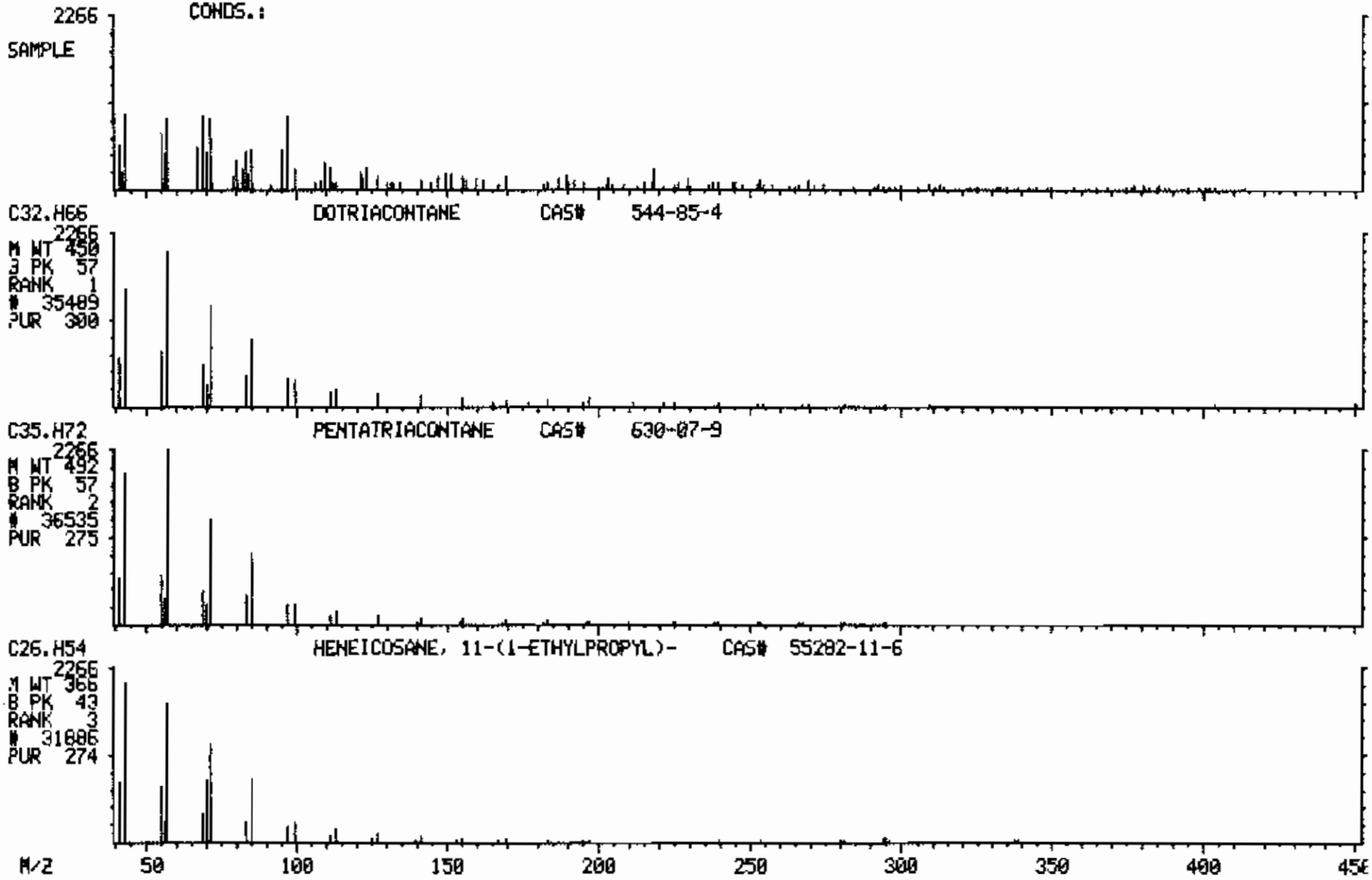


COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 17:29
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:

DATA: GH085004C15 #1151
ENHANCED (10B 2H 0T)

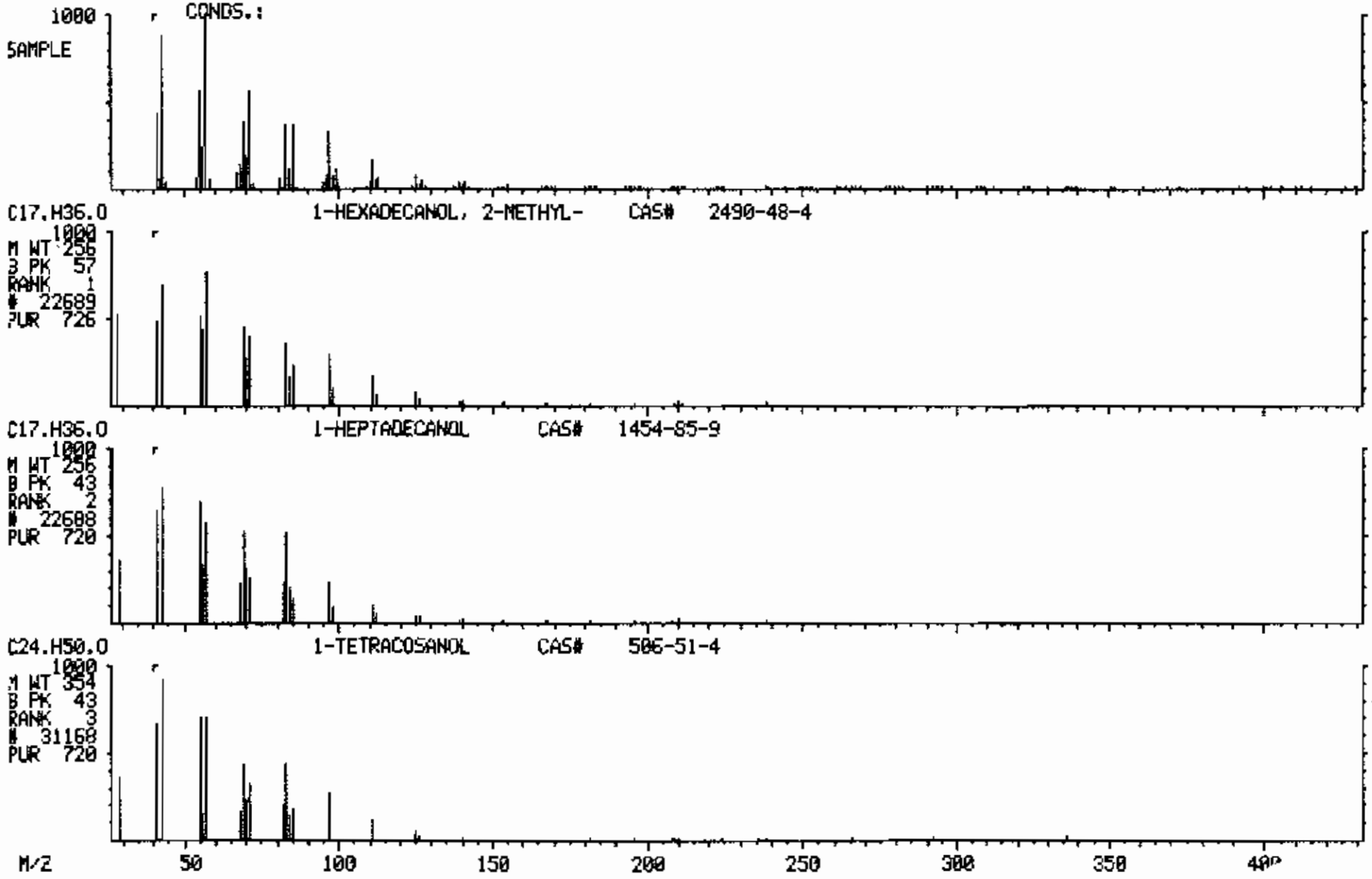
BASE M/Z: 43
RIC: 118143.



COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 17:40
DATA: GH085004C15 #1173
ENHANCED (10B 2N 0T)
BASE M/Z: 57
RIC: 1894390.

SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:

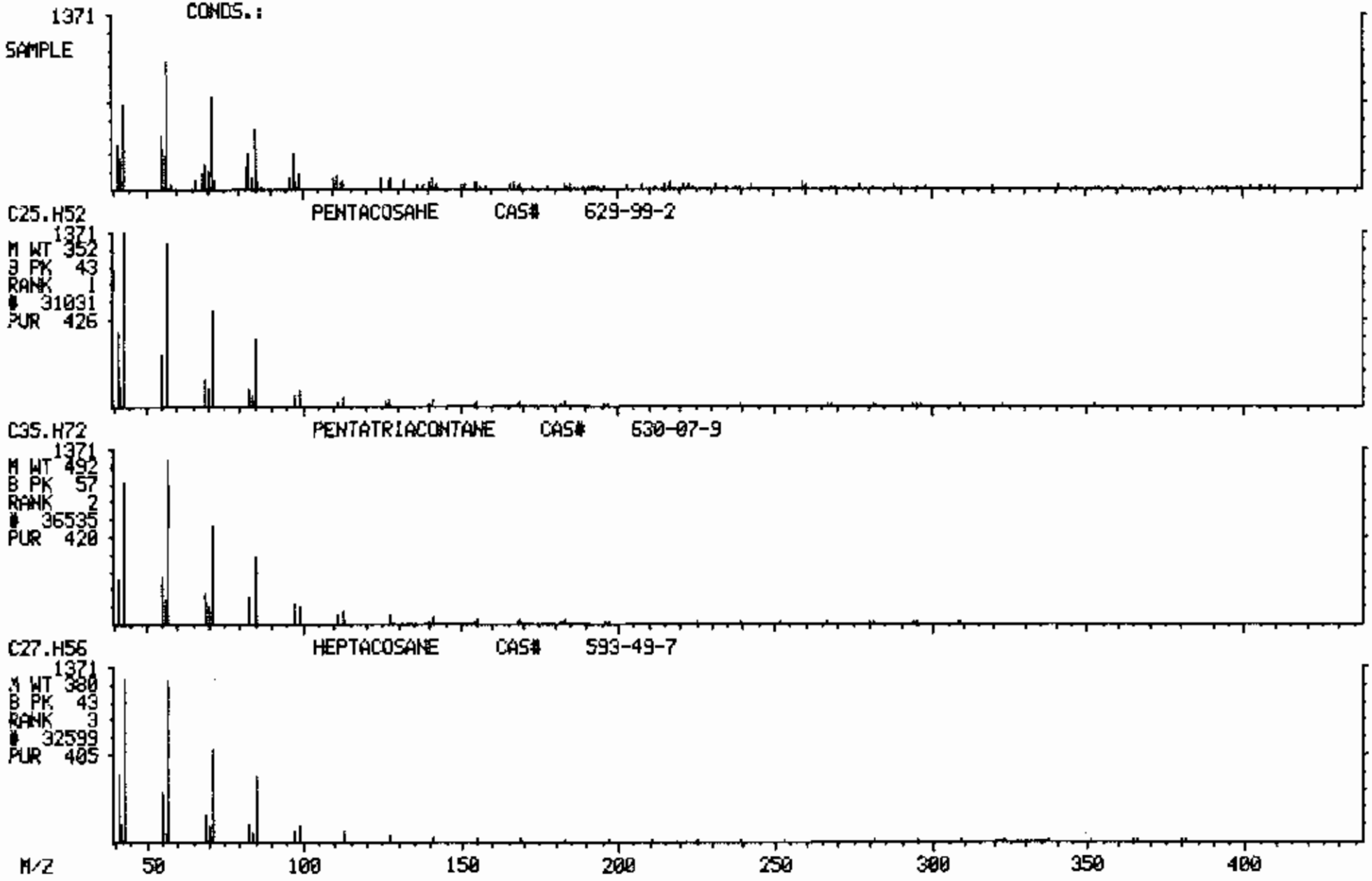


COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 10:10
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:

DATA: GH085004C15 #1206
ENHAHCED (10B 2H 0T)

BASE M/Z: 57
RIC: 129791.

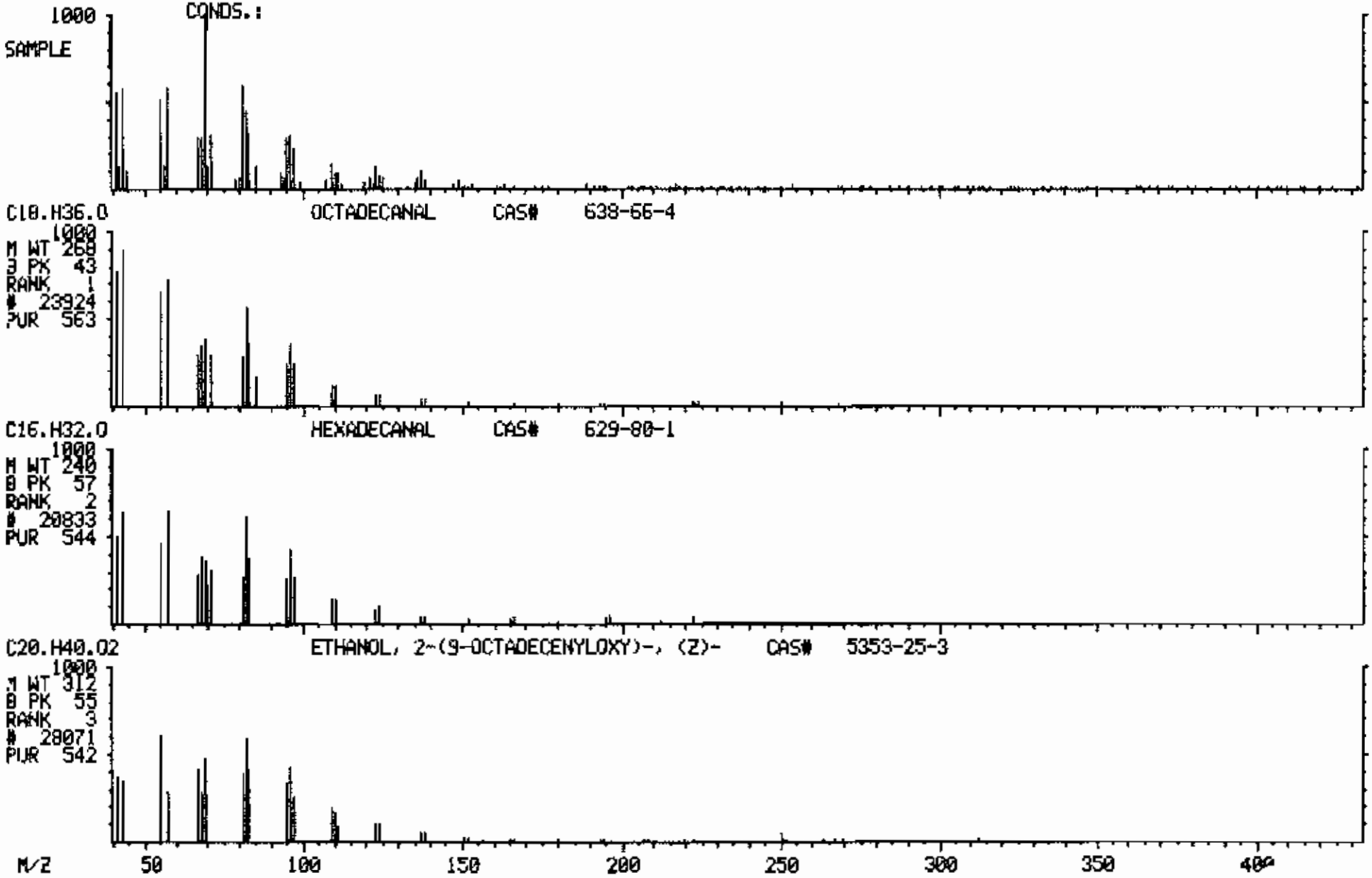


COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 18:24
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:

DATA: GH085004C15 #1222
ENHANCED (10B 2N 0T)

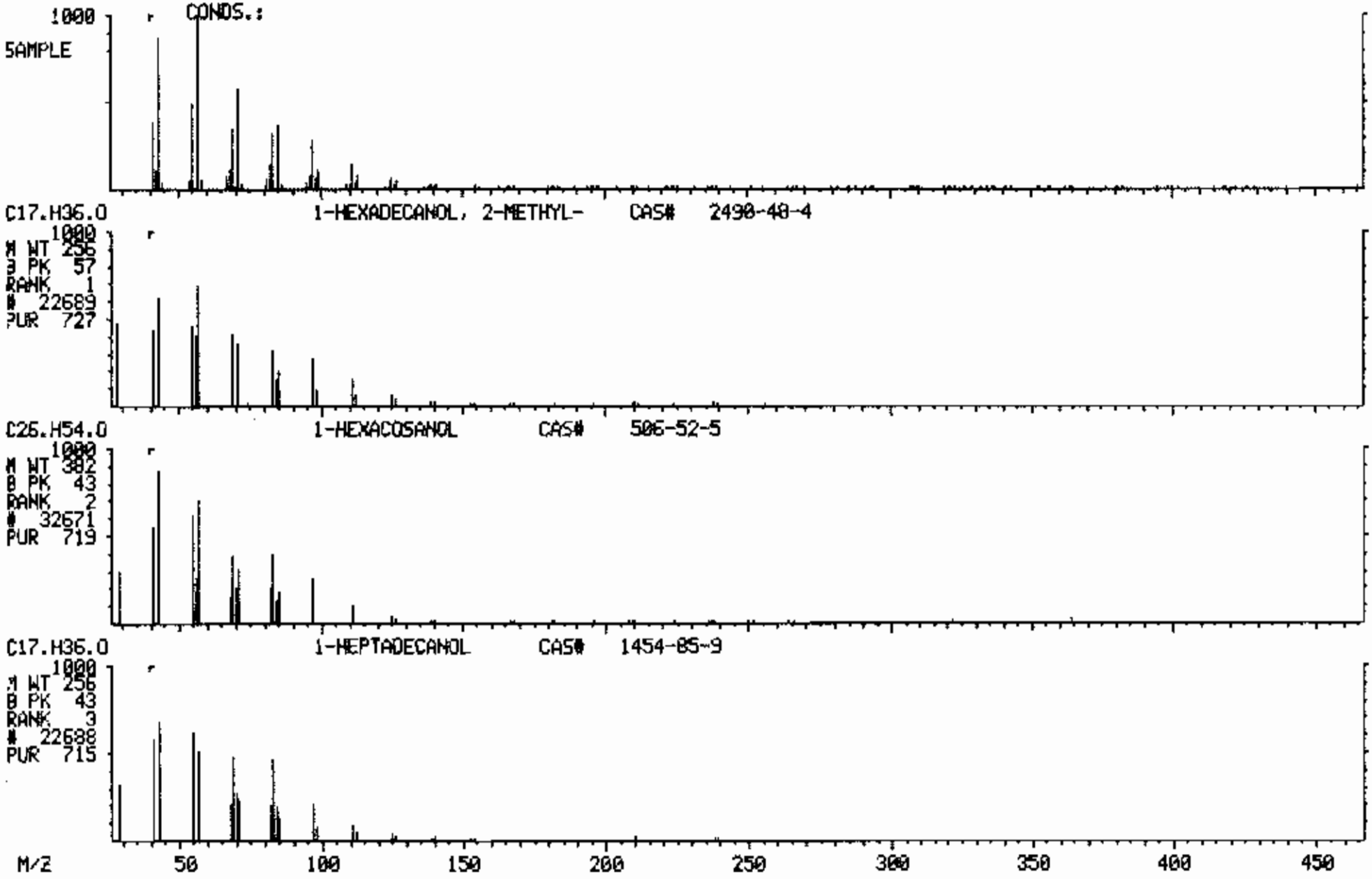
BASE M/Z: 69
RIC: 386559.



COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 10:46
DATA: GH085004C15 #1246
ENHANCED (10B 2N 0T)
BASE M/Z: 57
RIC: 1959930.

SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:



COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 19:45
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:

DATA: GN085004C15 #1311
ENHANCED (10B 2N 0T)

BASE M/Z: 251
RIC: 63103.

1092
SAMPLE

C17.H14.03 7H-1-BENZOPYRAN-7-ONE, 5-METHOXY-6-METHYL-2-PHENYL- CAS# 643-56-1

1092
M WT 266
B PK 251
RANK 1
23677
PUR 191

C21.H28.02 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A,10A-HEXAHYDRO-1,4A-DIMETHYL! CAS# 18492-76-7

1092
M WT 312
B PK 141
RANK 2
28095
PUR 147

C14.H22.03.SI 2-BUTANONE, 4-[3-METHOXY-4-[(TRIMETHYLSILYL)OXY]PHENYL]- CAS# 56700-87-9

1092
M WT 266
B PK 209
RANK 3
23643
PUR 145

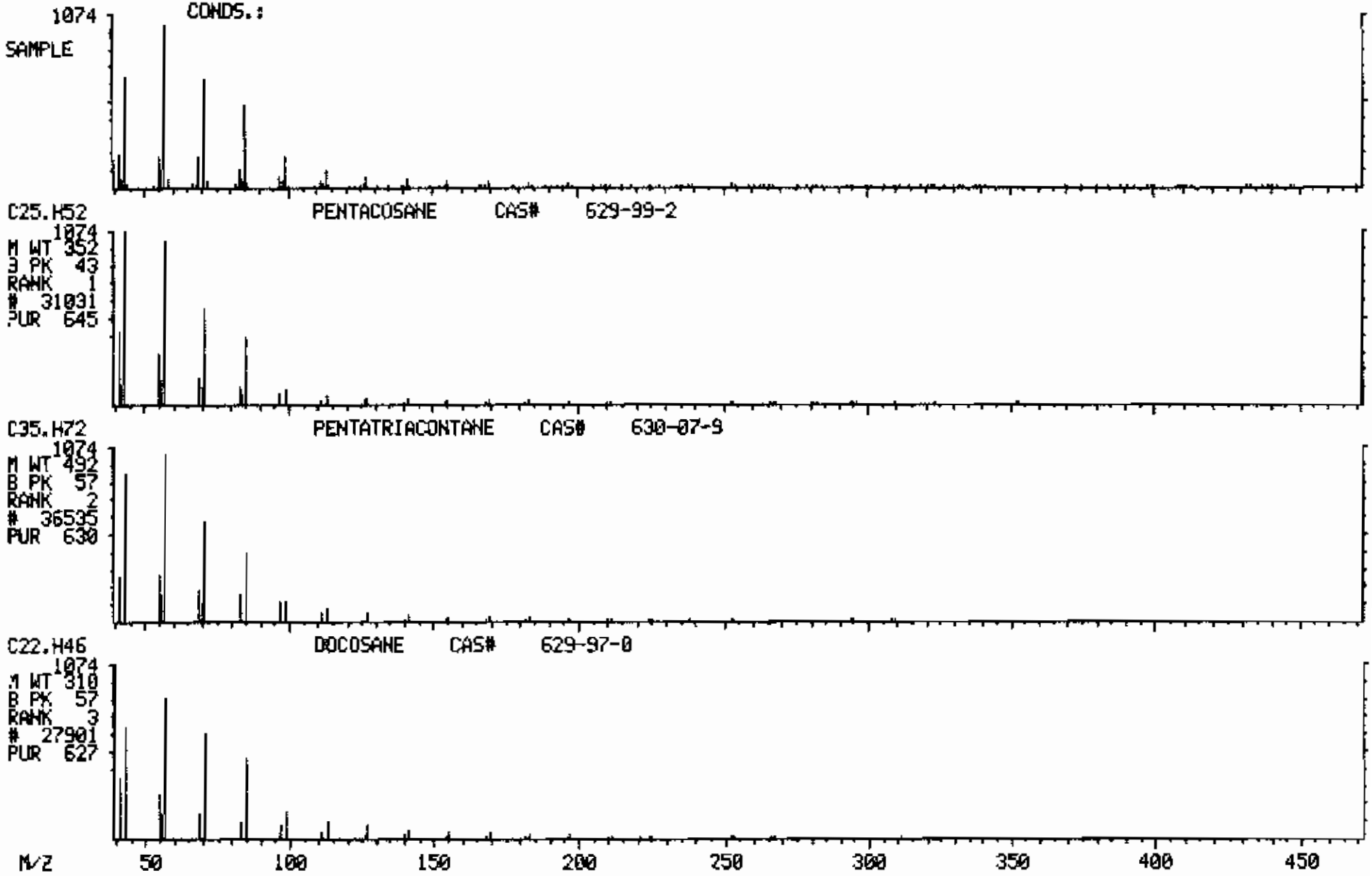
M/Z 50 100 150 200 250 300 350 400

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 20:16
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:

DATA: CH005004C15 #1346
ENHANCED (10B 2N 0T)

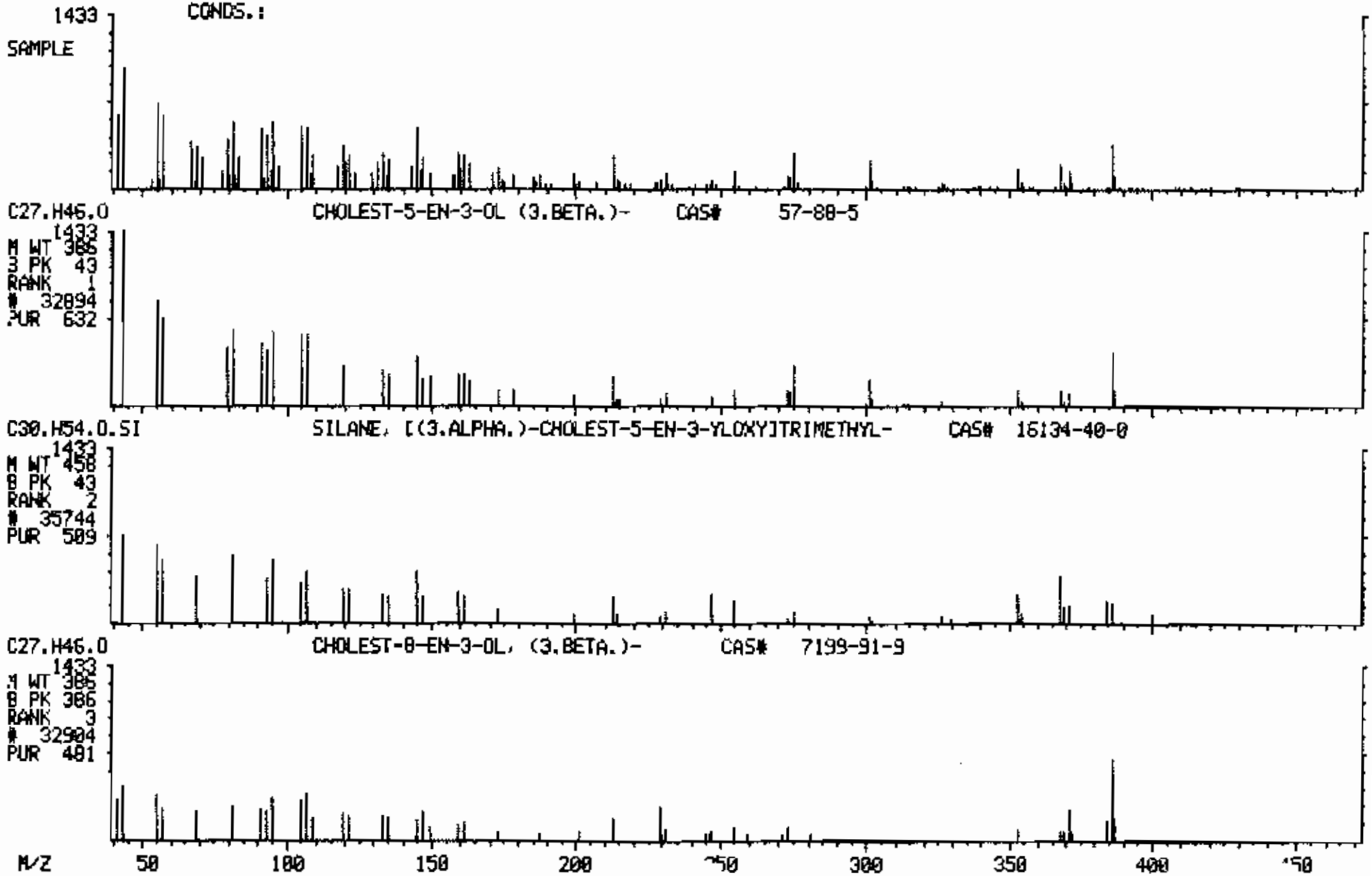
BASE M/Z: 57
RIC: 311007.



COMPUCHEM LABS

MIO LIBRARY SEARCH
05/28/06 6:27:00 + 21:04
SAMPLE: 1UL CC#85004 (5-13-06) CS# URS WEST EPA# N-SEDIMENT
CONDS.:

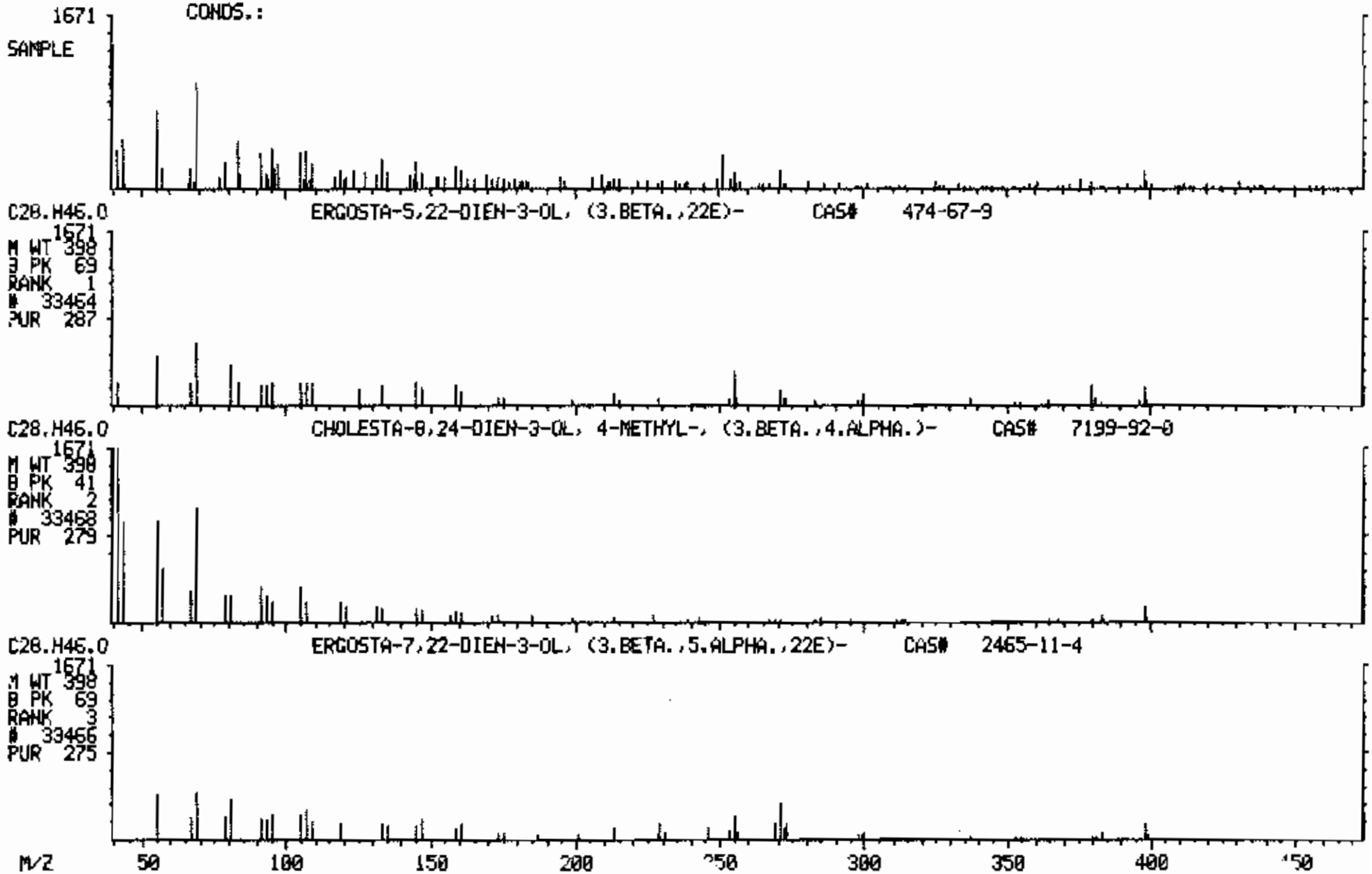
DATA: GH085004C15 #1399 BASE M/Z: 43
ENHANCED (10B 2N 0T) RIC: 380095.



COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 21:35
DATA: QH085004C15 #1433
ENHANCED (10B 2N 0T)
BASE M/Z: 69
RIC: 90751.

SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:

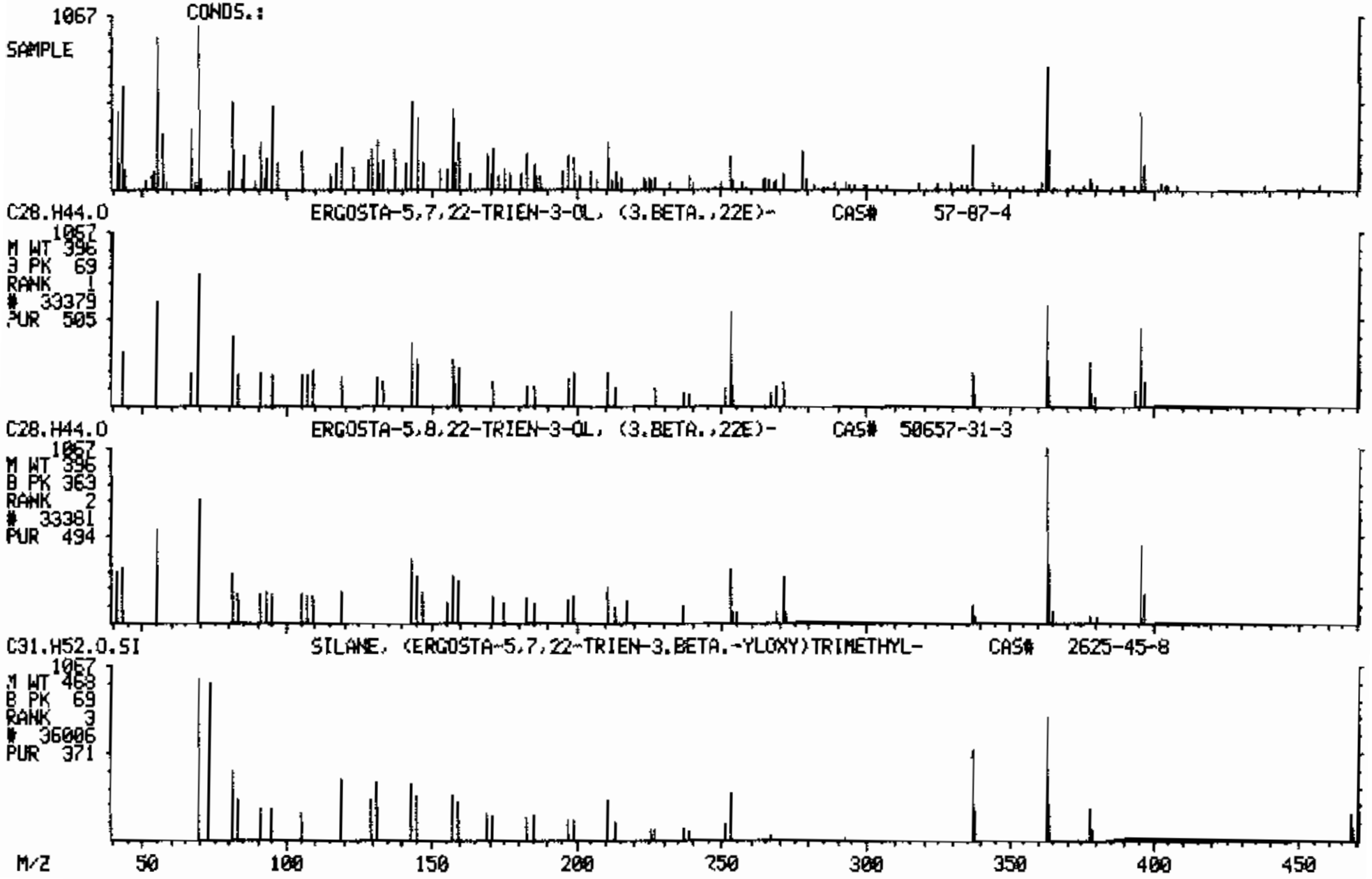


COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 22:00
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:

DATA: GH085004C15 #1461
ENHANCED (10B 2N 0T)

BASE M/Z: 69
RIC: 105855.



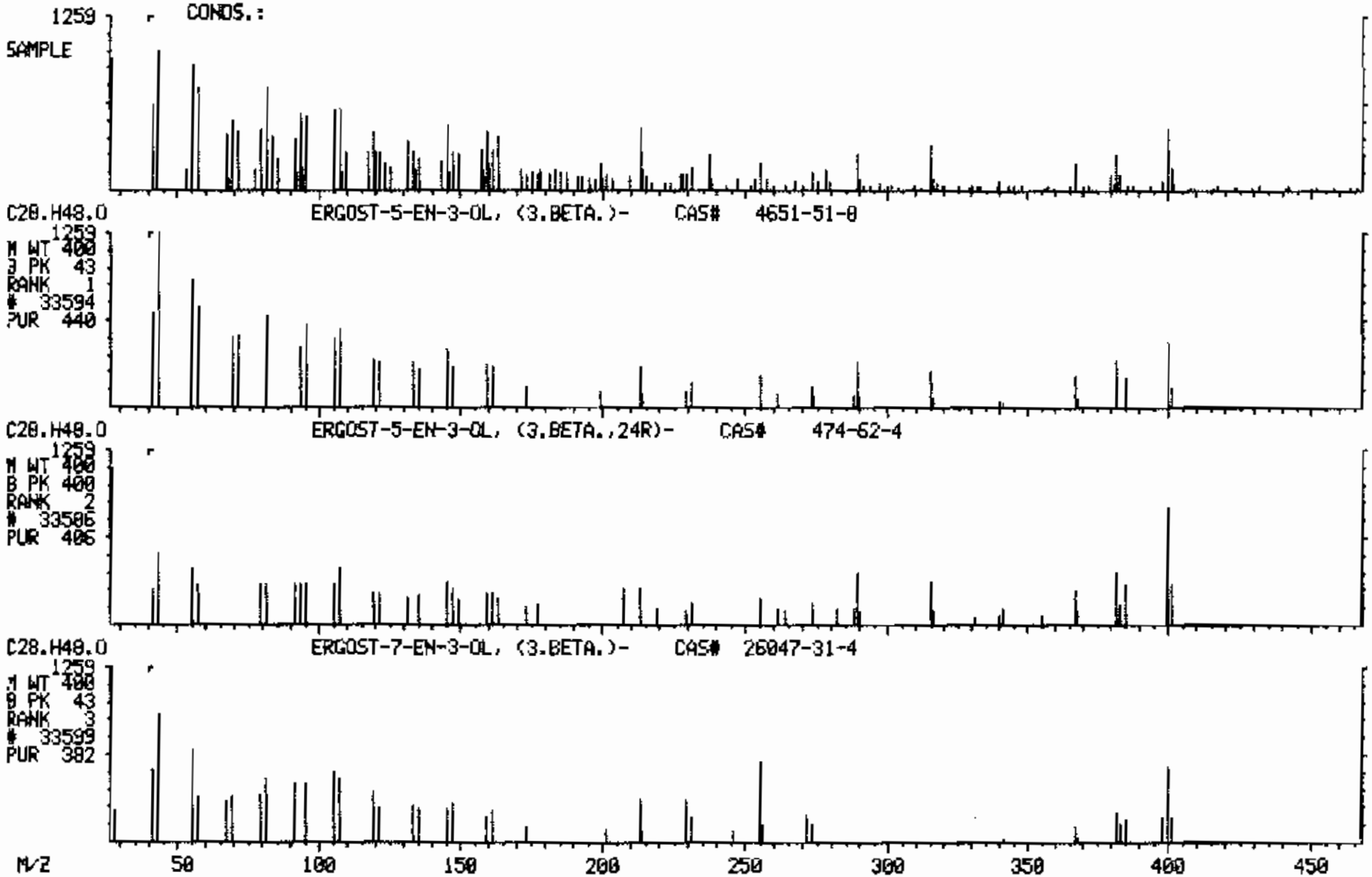
BNA20

COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 22:17
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# N-SEDIMENT
CONDS.:

DATA: GH085004C15 #1480
ENHANCED (10B 2N 0T)

BASE M/Z: 43
RIC: 130175.



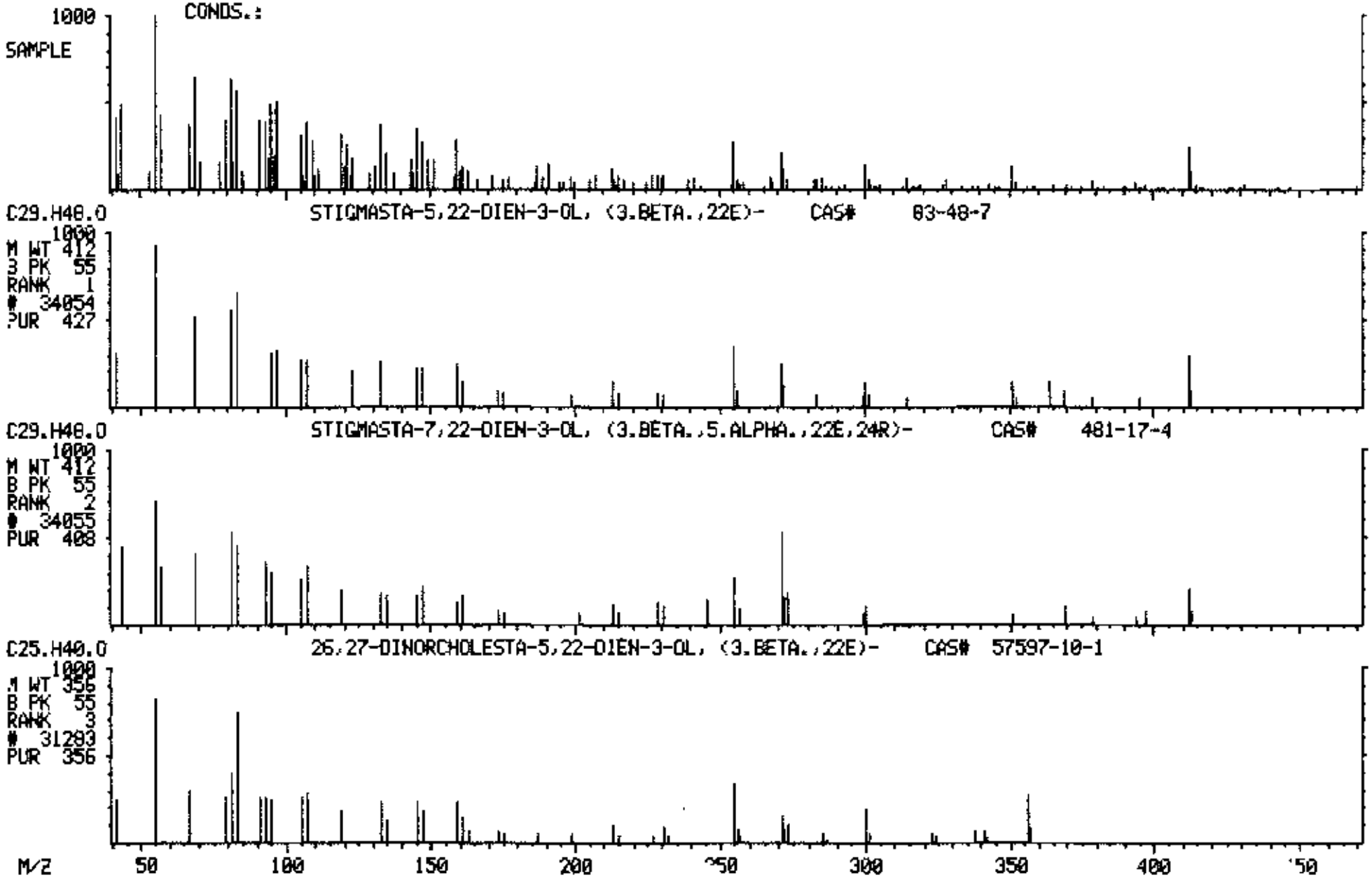
BNA 21

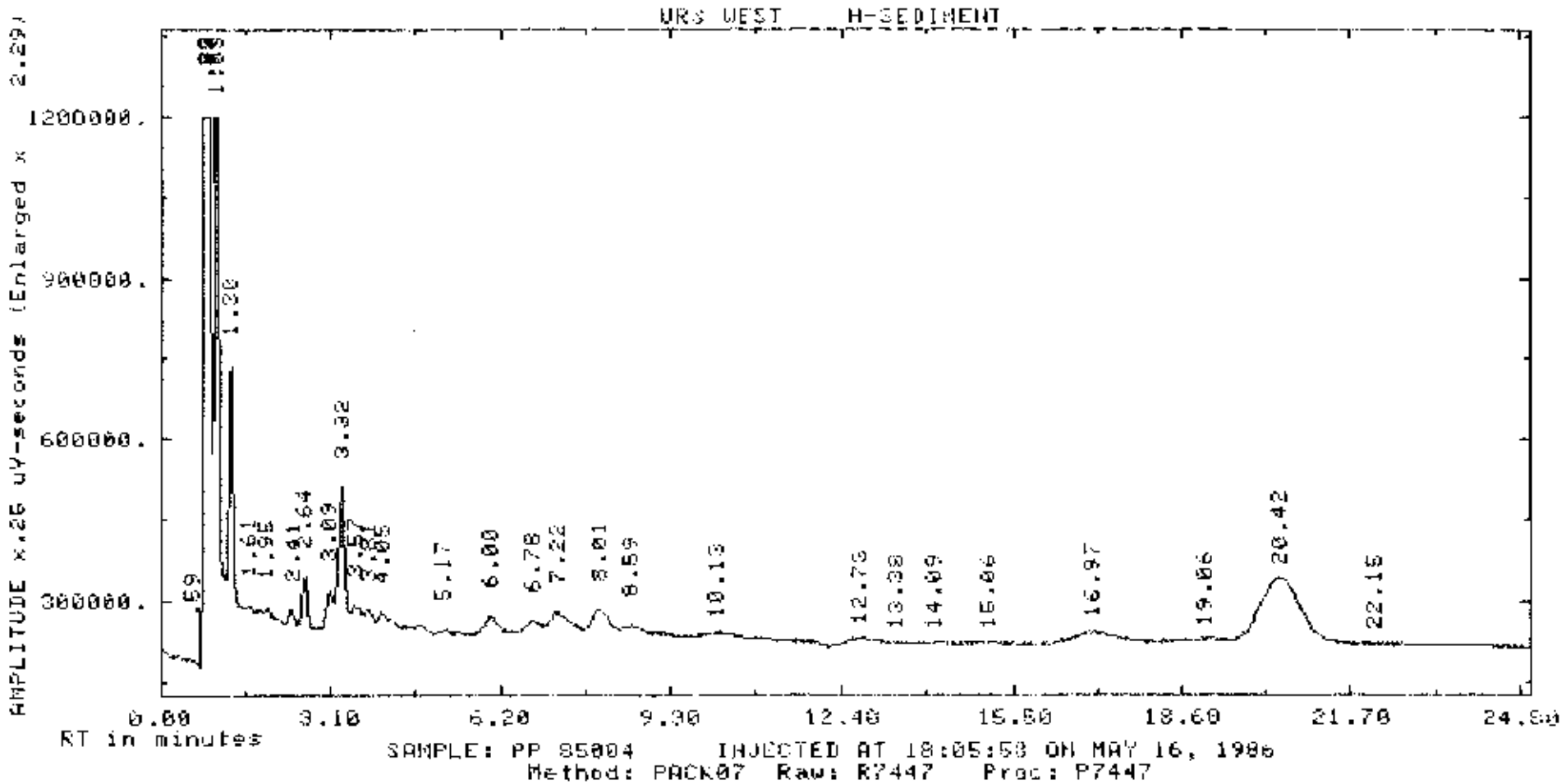
COMPUCHEM LABS

MID LIBRARY SEARCH
05/20/86 6:27:00 + 22:41
SAMPLE: 1UL CC#85004 (5-13-86) CS# URS WEST EPA# H-SEDIMENT
CONDS.:

DATA: GH085004C15 #1506
ENHANCED (108 2N 0T)

BASE M/Z: 55
RIC: 161279.




URS WEST H-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 2.29)
1200000.
900000.
600000.
300000.
.59
1.20
1.61
1.95
2.41
2.64
3.09
3.32
3.57
4.05
5.17
6.00
6.78
7.22
8.01
8.59
10.13
12.73
13.38
14.09
15.06
16.97
19.06
20.42
22.15
0.00
3.10
6.20
9.30
12.40
15.50
18.60
21.70
24.80
RT in minutes
SAMPLE: PP 85004 INJECTED AT 18:05:58 ON MAY 16, 1986
Method: PACK07 Raw: R7447 Proc: P7447

Report: 220.00 Channel: 7 URS WEST H-SEDIMENT

Sample: PP 85004 Injected at 18:05:58 ON MAY 16, 1994

APCT Method: PACK07 Seq: SEQ74 Subsq/Samp. 1/47 Btl: 47

Sl-width	MV/min	Delay	Min-Ar	Bunch
.500	3.000	0.00	10000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	500.00	NO

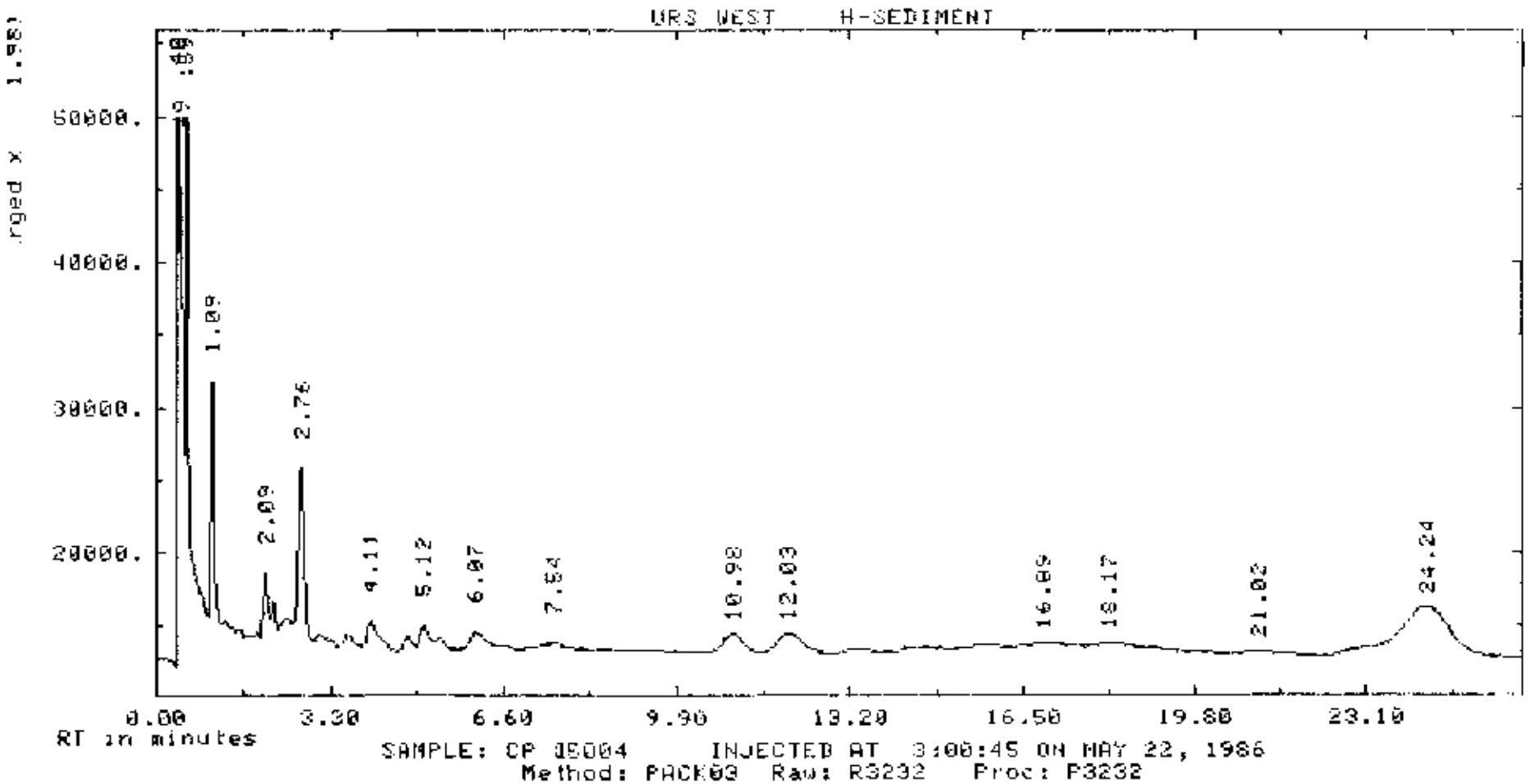
Actual run time: 25.008 minutes

Ended not on baseline
No reference peak found

RT	ITM	Factor	Area		AREA %	Name
.59	0.00	.10000E+01	11270.	BB	.403	
.82	0.00	.10000E+01	1437053.	BS	51.356	
.89	0.00	.10000E+01	359107.	BB	12.833	
1.03	0.00	.10000E+01	4523379.	BS	161.652	
1.30	0.00	.10000E+01	912329.	BB	32.604	
1.61	0.00	.10000E+01	21728.	BB	.777	
1.95	0.00	.10000E+01	31270.	BB	1.118	
2.41	0.00	.10000E+01	92941.	BB	3.321	
2.64	0.00	.10000E+01	318671.	BB	11.388	
3.09	0.00	.10000E+01	39578.	BB	1.414	
3.32	0.00	.10000E+01	891864.	BB	31.872	
3.57	0.00	.10000E+01	57330	BB	2.049	
3.81	0.00	.10000E+01	49316.	BB	1.762	
4.05	0.00	.10000E+01	103827.	BB	3.710	
5.17	0.00	.10000E+01	36355.	BB	1.299	
6.00	0.00	.10000E+01	243464.	BB	8.701	
6.78	0.00	.10000E+01	98163.	BB	3.508	
7.22	0.00	.10000E+01	257683.	BB	9.209	
8.01	0.00	.10000E+01	321900.	BB	11.504	
8.59	0.00	.10000E+01	65225.	BB	2.331	
10.13	0.00	.10000E+01	4511164.	BB	161.403	
12.73	0.00	.10000E+01	183747.	BB	6.567	
13.38	0.00	.10000E+01	13764.	BB	.492	
14.09	0.00	.10000E+01	10709.	BB	.383	
15.06	0.00	.10000E+01	12831.	BB	.459	
16.97	0.00	.10000E+01	497598.	BB	17.783	
19.06	0.00	.10000E+01	38102.	BB	1.362	
20.42	0.00	.10000E+01	2908028.	BB	103.924	
22.15	0.00	.10000E+01	22954	BB	.820	

Total Area = 13991134. Total AREA % = 22954.000

Processed data file: P7447 Raw data file: R7447


URS WEST H-SEDIMENT
rged x 1.98)
50000.
40000.
30000.
20000.
1.89
2.09
2.76
4.11
5.12
6.07
7.54
10.98
12.03
16.89
18.17
21.02
24.24
0.00
3.30
6.60
9.90
13.20
16.50
19.80
23.10
RT in minutes
SAMPLE: CP 05004 INJECTED AT 3:00:45 ON MAY 22, 1986
Method: PACK03 Raw: R3232 Proc: P3232

Report: 388.00 Channel: 3 URS WEST H-SEDIMENT

Sample: CP B5004 Injected at 3:00:45 ON MAY 22, 1986

ZERO Method: PACK03 Seq: SEQ32 Subsq/Samp: 1/32 Btl: 32

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.500	.300	0.00	5000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	500.00	NO

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITM	Factor	Area		AREA %	Name
.40	0.00	.10000E+01	68280.	BB	80.703	
.49	0.00	.10000E+01	9876.	BB	11.673	
.59	0.00	.10000E+01	48132.	BB	56.890	
1.09	0.00	.10000E+01	29705.	BB	35.109	
2.09	0.00	.10000E+01	8910.	BB	10.540	
2.76	0.00	.10000E+01	39926.	BB	47.190	
4.11	0.00	.10000E+01	13347.	BB	15.776	
5.12	0.00	.10000E+01	5986.	BB	7.075	
6.07	0.00	.10000E+01	10087.	BB	11.923	
7.54	0.00	.10000E+01	5503.	BB	6.504	
10.98	0.00	.10000E+01	16706.	BB	19.746	
12.03	0.00	.10000E+01	20247.	BB	23.931	
16.89	0.00	.10000E+01	6545.	BB	7.736	
18.17	0.00	.10000E+01	10093.	BB	11.929	
21.02	0.00	.10000E+01	5955.	BB	7.038	
24.24	0.00	.10000E+01	123726.	BF	146.237	

Total Area = 423030. Total AREA % = 123725.750

Processed data file: P3232 Raw data file: R3232

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB'S ONLY IN PLATINUM FORM
CASE#: URS WEST DUE DATE: 6/11/86

VOA R[ ] R2[ ] D[ ] (:1)
C/MS WORKSHEET COMPUCHEM#: 85004
R3[ ] R4[ ] D2[ ] (:1)

LOW LEVEL SOLID

Sample Prep Code---155
Instrument Code----257
Compound List------146
Surrogate Std------394
Internal Std-------036

SAS: EPA#: H-SEDIMENT Dry Weight Factor 3.13

GC/MS ANALYSIS
Amount Purged: [ ] 10mls/Xg soil or [ ]Dilution_____ul/10000ul/Xg soil
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BF860515A1 Disk(2940
Blank Filename GB860515A1 Disk ( )
Standard Filename GT860515A4 Disk ( )
Sample Filename G4085004B18 Disk ( )

ANALYST(S): Injection 941 Work-up_____

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,ES,SM,JS,SL,SH,JA,DA

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,NR IP,LA,DI,CO,RN,DW,SI,SF UP,BB,OT,VC,FO,NS

Disposition: [✓] Complete

Extraneous Peak Search Results:
# of Peaks Found: 0

[ ] Reprep neat required

[ ] Reprep using_____9

Quality Assurance Notice(s):
Notices Required_____

[ ] Dilute (:1)

COMMENTS: Soil w/so ✓

GC/MS Review [signature] Date 5/16/86 Auditor_____Date____/____/____

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): G4085004B18 /

QA COMMENTS:

Initials_____ Date____/____/____

FINAL REVIEW: Initials_____ Date____/____/____

AC387 (09/85)

5/16

ILY IN PLATINUM FORM

CASE#: URS WEST DUE DATE: 6/11/86

SEMI-VOLATILE GC/MS WORKSHEET COMPUCHEM#: 85004

JC] RC] DC] (:1)

J2C] R2C] D2C] (:1)

LOW LEVEL SOLID

Sample Prep Code--- -717
Instrument Code------255
Compound List--------172
Surrogate Std--------393
Internal Std---------035

SAMPLE ID/EPA#: H-SEDIMENT Dry Weight Factor 383

GC/MS ANALYSIS

Volumes mixed: BN 200 ul Acid ul

Internal Standard Volume Added 5 ul

Mixed Sample Volume Injected 1 ul

Date of Sample Bottle Analyzed 5/13/86

DFTPP Filename DI86051913 Disk (3117)

Standard Filename HG860520C15 Disk (/)

Sample Filename GH085004C15 Disk (/)

ANALYST(S): Injection 619 Work-up 619

GC/MS REVIEW

CONDITION CODE: OK

Entry Codes OK,EA,JA, ES,AL,AH,PL,PH,FL,JS FH,NL,NH,YL,SL,SH,SM,YH

Non-Entry Codes IM,IL,IH,SW,CT,CS,PC,OT,DA ED,IF,LA,DI,CO,RN,DW,NS

Pepo 5/20

Disposition:

[✓] Complete

[ ] Reinjection required

[ ] Reextraction required

[ ] Dilute (:1)

[ ] Reinject Neat

[ ] Send to QA

Extraneous Peak Search Results:

# of Peaks Found: 21

# of Hits: 15

# of Surrogate Outliers: 0

Quality Assurance Notice(s):

Notices Required 0

GC/MS Review [signature] Date 5/20/86 Auditor Date / /

REPORT INTEGRATION Total # of Injections: 1

Final Reportable Package(s): /

QA COMMENTS:

Initials Date / /

FINAL REVIEW: Initials Date / /

AC385 (07/85)

5/22/86

LAB INSTRUCTIONS: GC & RI NO PEST REPORT PCB'S ONLY IN PLATINUM FORM
CASE # URS WESTDATE DUE 6/11/86

PESTICIDE WORKSHEET

COMPUCHEM # 85004
Sample Prep Code---716
Instrument Code----124
Compound List------177
Surrogate Std------396

LOW LEVEL SOLID

SAS: ID#: H-SEDIMENT Dry Weight Factor
Blank Associated with Case _____ _____ _____ 3.83
Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes |___|

Wt. of sample 30.69 g final volume of extract 2.0 mls

portion of wt. in pesticide 1/10 .

ANALYSIS INFORMATION: COMMENTS |___| Send to QA

Inst. # / Date Sequence Dil. Fact. |___| QA Approved

5-[illegible]86 7 74 5 BDL |___| Need QC/MS Confirmation

5-22 3 32 5

___ ___ ___ ___ Analyst [illegible]924/899 Date 5-23-86

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE 2408 X Dilution Factor 5 X 100 = 92 % Recovery
AREA IN STD 15762
% Recovery X 0.1 ug/ml = .092 ug/ml

+EA = re-extract acceptable
JA = reinject acceptable
QA = repeat confirmed original results
OK = original data acceptable (not for REPEATS)
NS = insufficient sample for repeat
DL = DBC low ((20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.

FINAL STATUS CODE+= | ok |

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA:_____

|___| QANA |___| QAN3 QA notice included.

SAMPLE DISPOSITION Code

|___| Complete.....

|___| Requires Re-extraction.. 716

|___| Requires reprep..... 930

|___| Requires cleanup..... 901

Audited By_____ Date_____

ENTERED 5/27/86

(19)

VOLATILE PREP WORKSHEET

№ 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens LIQ	Screens S	Screens L	Screens M	Comments
84986	-155	ues WEST			5.07g	5-13-86					ENT
84988	1		BS		0ml						
84989			SS	84986	5.07g						
84990					5.01g						ENT
84991			SS	84990	5.01g						
85000					5.02g						ENT
85001					5.07g						ENT
85002					5.00g						ENT
85003					5.01g						ENT
85004					5.09						ENT
85005					5.09						ENT
85028			B		5.0ml	5-13-86					
85029			B		0ml	5-13-86					
			B								

Surrogate No. /

Amount

Lot /

MBL 5-13-86

Schedule Reference

Manual Counter 2781 715

(47)

VOLATILE PREP WORKSHEET

№ 1745

ASSIGNED TO Pat

DATE 5-13-86

Sample Number	Prep Code	Case No.	QC Sample Type	QC Sample Original	Sample Weight (g) Volume (ml)	Date Comp.	Screens L10	Screens S	Screens L	Screens M	Comments
84986	-158	URS WEST			20.09g	5-13-86			✓		ENT
84987			BS		40 ml				✓		
84990					20.06g				✓		ENT
85000					20.02g				✓		ENT
85001					20.07g				✓		ENT
85002					20.02g				✓		ENT
85003					20.05g				✓		ENT
85004					20.10g				✓		ENT
85005					20.01				✓		ENT
85034			B		40 ml	5-13-86			✓		
85035			B		40 ml	5-13-86			✓		
			B								

PREPPED 5/14/86

Surrogate No. # 381
Amount 200 µl
Lot 17471

MSA 5/13/86

Schedule Reference
Manual Counter 288/472

EXTRACTION WORKSHEET
Semi-Volatiles / Miscellaneous

ASSIGNED TO: Linda L.A.P.

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
84992	-153	WKS west	NA	BS		30.00	1ml	—		—			5/13	
84993	-717	WKS west		BS		30.00	—	0.9		1ml			5/13	
84994		WKS west		SS	85001	30.55	—	0.9		1ml			5/13	277/499
84995		WKS west		SS	85001	30.33	—	0.9		1ml			5/13	
84986		WKS west				30.89	1ml	0.9		1ml			5/13	
84990						30.24	1ml	0.9		1ml			5/13	
85000						30.41	1ml	0.9		1ml			5/13	
85001						30.82	1ml	0.9		1ml			5/13	
85002						30.45	1ml	0.9		1ml			5/13	
85003						30.85	1ml	0.9		1ml			5/13	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17794			17676		
SPIKE	NO.		3012	2021			
	AMT.		10ml	1.0ml			
	LOT		17654	17771			

Blanks 85702 / 85703 } on # 9782 along w/other samples

MANUAL COUNTER 270 /6/3

FINAL VOLUME VERIFIED L.A.P.

SUPERVISOR REVIEWED CK

EXTRACTS RECEIVED BY TBD 5/13/86

Prectape Lot # 209 received 5/13/86

№ 9781

EXTRACTION WORKSHEET
Semi-Volatiles/ Miscellaneous

ASSIGNED TO: [signature]

DATE ASSIGNED 5-13-86

PAGE ______ OF ______

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL (MLS) SV SCREEN	SV / B/N	ACID	PEST	ADJUSTED PH B/N	ADJUSTED PH A	DATE COMPT	COMMENTS
85004	-717	Wswgt	NA			30.xx	1ml	0.9		0.9			5/13	
85005	↓	↓	↓			30.30	1ml	0.9		0.9			5/13	
85102				B¹		30.00	1ml	0.9		1.0			5/13	
85103	↓			B²		30.00	1ml	0.9		1.0			5/13	

Add'n samples on [illegible] 9978

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17714			11286		
SPIKE	NO.						
	AMT.						
	LOT						

MANUAL COUNTER 270/613

FINAL VOLUME VERIFIED LAP

SUPERVISOR REVIEWED [initials]

EXTRACTS RECEIVED BY [initials] 5/13/86

Acetone Lot # 269

[signature] 5/13/86

№ 32

EXTRACTION WORKSHEET
Pesticide/Herbicide

ASSIGNED TO: Linda 11'

DATE ASSIGNED: 5-13-86

PAGE ____ OF ____

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ALUMINA COLUMN START VOL	ALUMINA COLUMN FINAL VOL	DATE COMPT	COMMENTS
84992	153	UKSwat	NA	BS		30.00	1.0	—		—		2x1ml		
84993	716	UKSwat		BS		30.00	—	[illegible]		1.0				
84994		UKSwat		SS	85001	30.59	—	[illegible]		1.0				
84995		UKSwat		SS	85001	30.35	—	0.9		1.0				
84986		UKSwat	A SEDIMENT			30.89	1.0	0.9		1.0	1.0ml	2.0ml	5-14-86	
84990			B SEDIMENT			30.24	1.0	0.9		1.0	1.0	2.0	5-14	
85000			D SEDIMENT			30.41	1.0	0.9		1.0	1.0	2.0	5-14	
85001			E SEDIMENT			30.35	1.0	0.9		1.0	1.0	2.0	5-14	
85002			F SEDIMENT			30.45	1.0	0.9		1.0	1.0	2.0	5-14	
85003			G SEDIMENT			30.85	1.0	0.9		1.0	1.0	2.0	5-14	

		S-Vol	Acid	B/N	Pest.	TCDD	Other
SURROGATE	NO.	393			395		
	AMT.	0.5ml			2.0ml		
	LOT	17794			17686		
SPIKE	NO.	302	2021				
	AMT.	1.0ml	1.0ml				
	LOT	17654	17777				

Blank 85102 / 85103 ? on By 9782 along w/other surface

CASE — BN 05/14/86

MANUAL COUNTER 310 / 6/3

FINAL VOLUME VERIFIED L.A.P.

SUPERVISOR REVIEWED

EXTRACTS RECEIVED BY 5/13/86

Acetone Lot # 309

Alumina Batch 5-13-86-AL

POSTED 5-14-86 OKS

№ 978

EXTRACTION WORKSHEET
Pesticide/Herbicide

ASSIGNED TO: [illegible signature]

DATE ASSIGNED 5-13-86

PAGE ____ OF ____

OKS

SAMPLE NUMBER	PREP CODE	CASE #	EPA #	QC SAMPLE TYPE	QC SAMPLE ORIG. NO.	SAMPLE WEIGHT (g) VOLUME (ml)	FINAL EXTRACT VOL. (MLS) SV SCREEN	SV B/N	ACID	PEST	ALUMINA COLUMN START VOL	ALUMINA COLUMN FINAL VOL	DATE COMPT	COMMENTS
85004	-7160	445URT	H-SEDIMENT NH			30.00	1.1			10.0	1.0ml	2.0ml	5-14-86	
85005	↓	UAS WEST ↓	C-SEDIMENT ↓			30.30	1.1			10.0	1.0	2.0	5-14	
85102				B		10.00	1.1			10.0	1.0ml	2.0ml	5-14-86	
85103	↓			B2		10.00	1.1			10.0	1.0	2.0	5-14	

		S-Vol	Acid	B/N	Pest	TCDD	Other
SURROGATE	NO.	593			595		
	AMT.	0.5ml			2.0ml		
	LOT	17794			1268		
SPIKE	NO.						
	AMT.						
	LOT						

Added samples on QF 9781
Case ✓ BW 05/14/86

POSTED 5-14-86

MANUAL COUNTER 370/613

FINAL VOLUME VERIFIED LEP

SUPERVISOR REVIEWED [initials]

EXTRACTS RECEIVED BY [initials] 5/13/86

Acetone Lot # 309
Alumina Batch 5-13-86-AL

Nº 978

COMPUCHEM # 085004 FILE: GH085004B18 COMPOUND LIST 146 PAGE 1
VOLATILE - LOW LEVEL SOLID

CMP	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
234	128	I	BROMOCHLOROMETHANE (IS) <75	198	49200.	50.0		
221	50		CHLOROMETHANE <75-01-4> E5#				BDL	38.
220	94		BROMOMETHANE <78-83-9> E5#3				BDL	38.
231	62		VINYL CHLORIDE <75-01-4> E5				BDL	38.
209	64		CHLOROETHANE <75-00-3> E5#5				BDL	38.
222	84		METHYLENE CHLORIDE <75-09-2			13.9	52.	19.
252	43		ACETONE (2-PROPANONE) <67-6			11.5	43.	38.
254	76		CARBON DISULFIDE <75-15-0>				BDL	19.
216	96		1,1-DICHLOROETHYLENE <75-35				BDL	19.
214	63		1,1-DICHLOROETHANE <75-34-3				BDL	19.
226	96		TRANS-1,2-DICHLOROETHYLENE				BDL	19.
211	83		CHLOROFORM <67-66-3> E5#12				BDL	19.
215	62		1,2-DICHLOROETHANE <107-06-				BDL	19.
248	114	I	1,4-DIFLUOROBENZENE (I8) <5	400	205000.	50.0		
253	72		2-BUTANONE <78-93-3> E6#2				BDL	38.
227	97		1,1,1-TRICHLORDETHANE <71-5				BDL	19.
206	117		CARBON TETRACHLORIDE <56-23				BDL	19.
257	43		VINYL ACETATE <108-05-4> E6				BDL	38.
212	83		BROMODICHLOROMETHANE <75-27				BDL	19.
217	63		1,2-DICHLOROPROPANE <78-87-				BDL	19.
250	75		TRANS-1,3-DICHLOROPROPENE <				BDL	19.
229	130		TRICHLOROETHYLENE <79-01-6>				BDL	19.
208	129		CHLORODIBROMOMETHANE <124-4				BDL	19.
[illegible]	97		1,1,2-TRICHLOROETHANE <79-0				BDL	19.
[illegible]	78		BENZENE <71-43-2> E6#12				BDL	19.
218	75		CIS-1,3-DICHLORDPROPENE <10				BDL	19.
210	63		2-CHLOROETHYL VINYL ETHER <				BDL	38.
205	173		BROMOFORM <75-25-2> E6#15				BDL	19.
270	117	I	D5-CHLOROBENZENE (IS)	501	185000.	50.0		
256	43		4-METHYL-2-PENTANONE <108-1				BDL	38.
255	43		2-HEXANONE <591-78-6> E7#3				BDL	38.
224	164		TETRACHLOROETHENE <127-18-4				BDL	19.
223	83		1,1,2,2-TETRACHLOROETHANE <				BDL	19.
225	92		TOLUENE <108-88-3> E7#6				BDL	19.
207	112		CHLOROBENZENE <108-90-7> E7				BDL	19.
219	106		ETHYLBENZENE <100-41-4> E7#				BDL	19.
251	104		STYRENE <100-42-5> E7#9				BDL	19.
240	106		M-XYLENE E7#10				BDL	19.
271	106		O,P-XYLENE E7#11				BDL	19.
258	65	S	D4-1,2-DICHLOROETHANE E8#2			48.4	97. %	
247	95	S	BROMOFLUOROBENZENE <460-00-			51.6	103. %	
233	98	S	D8-TOLUENE E8#4			52.2	104. %	
CHECKSUMS:								
1964.	744			1099	439200.	327.6	399.	

VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE E8#2	48.4	50.0	97.	70-121	X	
41	247	BROMOFLUOROBENZENE <460-00-	51.6	50.0	103.	74-121	X	
42	233	D8-TOLUENE E8#4	52.2	50.0	104.	81-117	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#1) BROMOCHLOROMETHANE > 10000 COUNTS	/	

CORRECTION FACTOR CALCULATION:

$$\frac{5.0\ G}{\text{WET WEIGHT OF SAMPLE (G)}} \times \text{GC/MS DILUTION FACTOR} \times \text{DRY WEIGHT FACTOR} =$$

$$\frac{5.0\ G}{5.09\ (G)} \times \frac{1.0}{} \times \frac{3.8}{} = 3.760$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.

COMPUCHEM # 085004 FILE: GH085004C15 COMPOUND LIST 172 PAGE 1
SEMI-VOLATILE - LOW LEVEL SOLID

IP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
494	152	I	D4-1,4-DICHLOROBENZENE (I8#	441	150000.	40.0		
610	94		PHENOL (G1#3) <108-95-2>			1.1	J	330.
411	93		BIS(2-CHLOROETHYL)ETHER (G1				BDL	330.
601	128		2-CHLOROPHENOL (G1#6) <95-5				BDL	330.
421	146		1,3-DICHLOROBENZENE (G1#7)				BDL	330.
422	146		1,4-DICHLOROBENZENE (G1#8)				BDL	330.
474	108		BENZYL ALCOHOL (G1#9) <100-				BDL	330.
420	146		1,2-DICHLOROBENZENE (G1#10)				BDL	330.
620	108		2-METHYLPHENOL (G1#11) <95-				BDL	330.
412	45		BIS(2-CHLOROISOPROPYL)ETHER				BDL	330.
622	108		4-METHYLPHENOL (G1#13) <106			15.8	520. 2000.	330.
442	70		N-NITROSO-DI-N-PROPYLAMINE				BDL	330.
436	117		HEXACHLOROETHANE (G1#15) <6				BDL	330.
440	77		NITROBENZENE (G1#16) <98-95				BDL	330.
460	136	I	D8-NAPHTHALENE (IS#2)	557	512000.	40.0		
438	82		ISOPHORONE (G2#2) <78-59-1>				BDL	330.
606	139		2-NITROPHENOL (G2#3) <88-75				BDL	330.
603	122		2,4-DIMETHYLPHENOL (G2#4) <				BDL	330.
625	122		BENZOIC ACID (G2#5) <65-85-			3.6	J	1600.
410	93		BIS(2-CHLOROETHOXY)METHANE				BDL	330.
602	162		2,4-DICHLOROPHENOL (G2#7) <				BDL	330.
446	180		1,2,4-TRICHLOROBENZENE (G2#				BDL	330.
79	128		NAPHTHALENE (G2#9) <91-20-3				BDL	330.
75	127		4-CHLOROANILINE (G2#10) <10				BDL	330.
434	225		HEXACHLOROBUTADIENE (G2#11)				BDL	330.
608	107		P-CHLORO-M-CRESOL (G2#12) <				BDL	330.
477	142		2-METHYLNAPHTHALENE (G2#13)				BDL	330.
495	164	I	D10-ACENAPHTHENE (IS#3)	726	180000.	40.0		
435	237		HEXACHLORDCYCLOPENTADIENE (				BDL	330.
611	196		2,4,6-TRICHLOROPHENOL (G3#3				BDL	330.
626	196		2,4,5-TRICHLOROPHENOL (G3#4				BDL	1600.
416	162		2-CHLORONAPHTHALENE (G3#5)				BDL	330.
478	65		2-NITROANILINE (G3#6) <88-7				BDL	1600.
425	163		DIMETHYL PHTHALATE (G3#7) <				BDL	330.
402	152		ACENAPHTHYLENE (G3#8) <208-				BDL	330.
479	138		3-NITROANILINE (G3#9) <99-0				BDL	1600.
401	153		ACENAPHTHENE (G3#10) <83-32				BDL	330.
605	184		2,4-DINITROPHENOL (G3#11) <				BDL	1600.
607	139		4-NITROPHENOL (G3#12) <100-				BDL	1600.
476	168		DIBENZOFURAN (G3#13) <132-6				BDL	330.
427	89		2,4-DINITROTOLUENE (G3#14)				BDL	330.
428	165		2,6-DINITROTOLUENE (G3#15)				BDL	330.
424	149		DIETHYL PHTHALATE (G3#16) <			1.4	J	330.
417	204		4-CHLOROPHENYL PHENYL ETHER				BDL	330.
432	166		FLUORENE (G3#18) <86-73-7>				BDL	330.
480	138		4-NITROANILINE (G3#19) <100				BDL	1600.
467	188	I	D10-PHENANTHRENE (I6#4)	867	230000.	40.0		
404	198		4,6-DINITRO-2-METHYLPHENOL				BDL	1600.
3	169		N-NITROSODIPHENYLAMINE (G4#				BDL	330.
414	248		4-BROMOPHENYL PHENYL ETHER				BDL	330.
433	284		HEXACHLOROBENZENE (G4#5) <I				BDL	330.
609	266		PENTACHLOROPHENOL (G4#6) <8				BDL	1600.
444	178		PHENANTHRENE (G4#7) <85-01-			8.5	J	330.
403	178		ANTHRACENE (G4#8) <120-12-7			2.0	J	330.

SEMI-VOLATILE - LOW LEVEL SOLID

IP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/KG)	DETECT. LIMIT (UG/KG)
426	149		DI-N-BUTYL PHTHALATE (Q4#9)			~~1.0~~	~~J~~ BDL	330.
431	202		FLUORANTHENE (Q4#10) <206-4			18.8	~~820.~~ 2400.	330.
459	240	I	D12-CHRYSENE (IS#5)	1124	201000.	40.0		
445	202		PYRENE (Q5#3) <129-00-0>			15.2	~~600.~~ 1900.	330.
415	149		BUTYLBENZYL PHTHALATE (Q5#4			~~9.6~~	~~J~~ BDL	330.
423	252		3,3'-DICHLOROBENZIDINE (Q5#			~~1.5~~	~~J~~ BDL	~~660.~~ 25
405	228		BENZO(A)ANTHRACENE (Q5#6) <			7.9	J	330.
413	149		BIS(2-ETHYLHEXYL) PHTHALATE			4.6	J	330.
418	228		CHRYSENE (Q5#8) <218-01-9>			11.0	~~360.~~ 1400.	330.
497	264	I	D12-PERYLENE (IS#6)	1279	19600D.	40.0		
429	149		DI-N-OCTYL PHTHALATE (Q6#2)				BDL	330.
407	252		BENZO(B)FLUORANTHENE (Q6#3)			II < 17.7	~~590.~~ 2300.	330.
409	252		BENZO(K)FLUORANTHENE (Q6#4)			17.7	~~590.~~ 2300.	330.
406	252		BENZO(A)PYRENE (Q6#5) <50-3			9.8	J	330.
437	276		INDENO(1,2,3-C,D)PYRENE (Q6			4.6	J	330.
419	278		DIBENZO(A,H)ANTHRACENE (Q6#			~~1.6~~	~~J~~ BDL	330.
408	276		BENZO(G,H,I)PERYLENE (Q6#8)				BDL	330.
619	112	S	2-FLUOROPHENOL (SS#1)			83.3	85.%	
612	99	S	D5-PHENOL (SS#2)			90.6	92.%	
447	82	S	D5-NITROBENZENE (SS#3)			46.6	95.%	
448	172	S	2-FLUOROBIPHENYL (SS#4)			52.4	106.%	
628	141	S	2,4,6-TRIBROMOPHENOL (SS#5)			82.7	84.%	
76	244	S	D14-TERPHENYL (SS#6)			44.6	91.%	
1	212	S	D10-PYRENE			45.8	93.%	
456	216		1,2,3,4-TETRACHLORDBENZENE				BDL	33.
CHECKSUMS:								
15175.	5904			4994	14670DD.	835.6	3826.	

SEMI-VOLATILE - LOW LEVEL SOLID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
72	619	2-FLUOROPHENOL (SS#1)	83.3	98.3	85.	26-121	X	
73	612	D5-PHENOL (SS#2)	90.6	98.3	92.	24-113	X	
74	447	D5-NITROBENZENE (SS#3)	46.6	49.2	95.	23-120	X	
75	448	2-FLUOROBIPHENYL (SS#4)	52.4	49.2	106.	30-115	X	
76	628	2,4,6-TRIBROMOPHENOL (SS#5)	82.7	98.3	84.	18-123	X	
77	496	D14-TERPHENYL (SS#6)	44.6	49.2	91.	18-137	X	
78	471	D10-PYRENE	45.8	49.2	93.	33-128*	X	

* ADVISORY SURROGATE ONLY
++ % RECOVERY = QUANT REPORT VALUE / QUANT REPORT AMOUNT SPIKED X 100 %

	P	F
INTERNAL STANDARD (#52) D10-PHENANTHRENE > 40000 CNTS	___	___

CORRECTION FACTOR CALCULATION:

$$\frac{\text{FINAL EXTRACT VOLUME (ML)}}{\text{SPLIT FACTOR (*)}} \times \frac{30.0\text{G}}{\text{AMOUNT EXTRACTED(G)}} \times \text{DRY WEIGHT FACTOR} \times \text{GC/MS DILUTION FACTOR} \times 33.3 =$$

$$\frac{0.9\text{ML}}{0.885} \times \frac{30.0\text{G}}{30.64\text{G}} \times \frac{3.83}{1.0} \times \frac{1.0}{1.0} \times 33.3 = \frac{127.}{33.200}$$

* SPLIT FACTOR = (295/300)(9/10) IF PEST/TCDD VOLUMES ARE INDICATED ON LOG
= 1 IF PEST/TCDO VOLUMES ARE NOT INDICATED ON EXTRACTION LOG

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

$$\frac{1000\text{ UL}}{\text{AMOUNT SURROGATE ADDED (UL)}} \times \frac{\text{FINAL EXTRACT VOL (ML)}}{\text{SPLIT FACTOR}} \times \text{GCMS DILUTION FACTOR} =$$

$$\frac{1000\text{ UL}}{500\text{ UL}} \times \frac{0.9\text{ML}}{0.885\text{ML}} \times \frac{1.0}{1.0} = 2.030$$

COMPOUND LIST NO. - 177

COMPUCHEM # 85004 DATE
IDENTIFIER PESTICIDES (LOW LEVEL SOLID)

OIL FACT_____DRY WT_____ _30__SPLIT_____FINAL VOL_____/S = 3.74
AMT SAMPLE_____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/kg)
1.	0701	ALDRIN		8.0
2.	0702	ALPHA-BHC		8.0
3.	0703	BETA-BHC		8.0
4.	0704	GAMMA-BHC		8.0
5.	0705	DELTA-BHC		8.0
6.	0706	TECHNICAL CHLORDANE		80.0
7.	0707	4,4'-DDT		16.0
8.	0708	4,4'-DDE		16.0
9.	0709	4,4'-DDD		16.0
10.	0710	DIELDRIN		16.0
11.	0711	ENDOSULFAN I		8.0
12.	0712	ENDOSULFAN II		16.0
13.	0713	ENDOSULFAN SULFATE		16.0
14.	0714	ENDRIN	BDL	16.0
15.	0739	ENDRIN KETONE		16.0
16.	0716	HEPTACHLOR		8.0
17.	0717	HEPTACHLOR EPOXIDE		8.0
18.	0726	METHOXYCHLOR		80.0
19.	0724	AROCHLOR 1016		80.0
20.	0720	AROCHLOR 1221		80.0
21.	0721	AROCHLOR 1232		80.0
22.	0718	AROCHLOR 1242	BDL	80.0
23.	0722	AROCHLOR 1248		80.0
24.	0719	AROCHLOR 1254		160.0
25.	0723	AROCHLOR 1260		160.0
26.	0725	TOXAPHENE		160.0

ANALYST'S COMMENTS:

GC SCREEN DATA SHEET

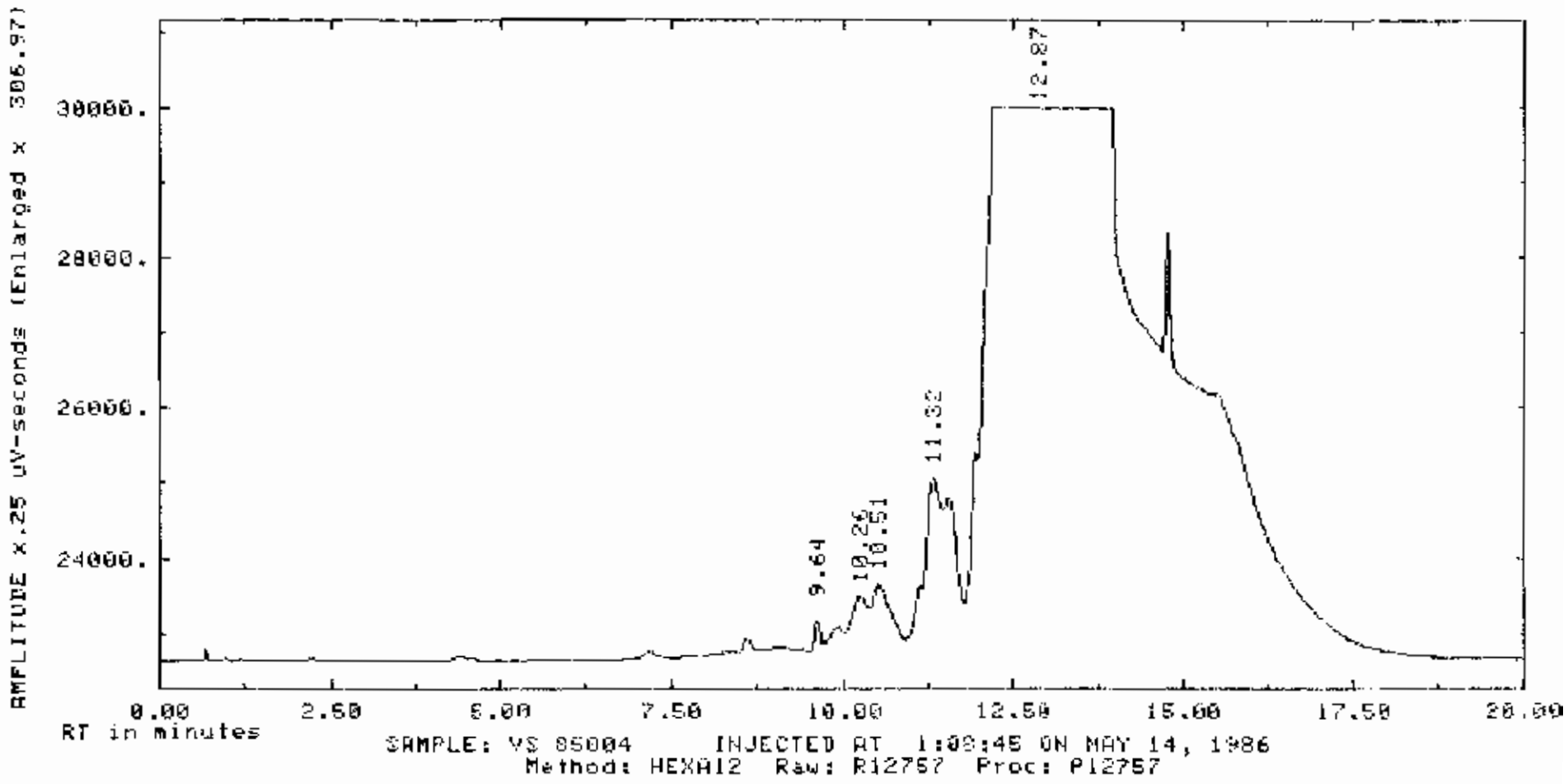
Laboratory Name CompuChem

Case Number ORS WEST

Sample ID Number	Fraction	GC Detectable* Medium Level	Date of Screen	Level of GC/MS Analysis**
H-SEDIMENT	VOA	ND	5/14/86	L
	B/N/A	ND	5/16/86	L
	Pesticides			
$5004	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			
	VOA			
	B/N/A			
	Pesticides			
	Dioxin			

*Answer Yes or No

**Indicate "M" for Medium Level GC/MS analysis.
Indicate "L" for Low Level GC/MS analysis.


AMPLITUDE x.25 uV-seconds (Enlarged x 306.97)
30000.
28000.
26000.
24000.
12.87
11.32
10.51
10.25
9.64
0.00
2.50
5.00
7.50
10.00
12.50
15.00
17.50
20.00
RT in minutes
SAMPLE: VS 85004 INJECTED AT 1:09:45 ON MAY 14, 1986
Method: HEXA12 Raw: R12757 Proc: P12757

Report: 106.00 Channel: 12

Sample: VS B5004 Injected at 1:08:45 GM MAY 14, 1986

ZERO Method: HEXA12 Seq. SEQ127 Subsq/Samp: 1/57 Rtl: 57

Tl-width	MV/Min	Delay	Min-Ar	Bunch
.500	3.000	0.00	100	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	ZRTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 20.017 minutes

Signal) 1 volt

RT	ITM	Factor	Area	AREA %	Name
9.64	0.00	.10000E+01	372. BB	1.066	
10.26	0.00	.10000E+01	1244. BB	3.569	
10.51	0.00	.10000E+01	2963. BB	8.498	
11.32	0.00	.10000E+01	30284. BB	86.867	
12.87	0.00	.10000E+01	0. BB	0.000	

Total Area = 34863. Total AREA % = 0.000

Processed data file: P12757 Raw data file: R12757

PLIST7

SCREEN WORKSHEET

Compound # 85004

Sample Prep Code-153_

Instrument Code__122__

ANALYSIS INFORMATION

COMMENT:

Date	Inst	File Name	Dilution Fact.
5/16	6	P6385	1
___	___	_____	___

2

Analyst 865 Date 5/16/86

RESULTS

Area of Sung Phenanthrene 66047

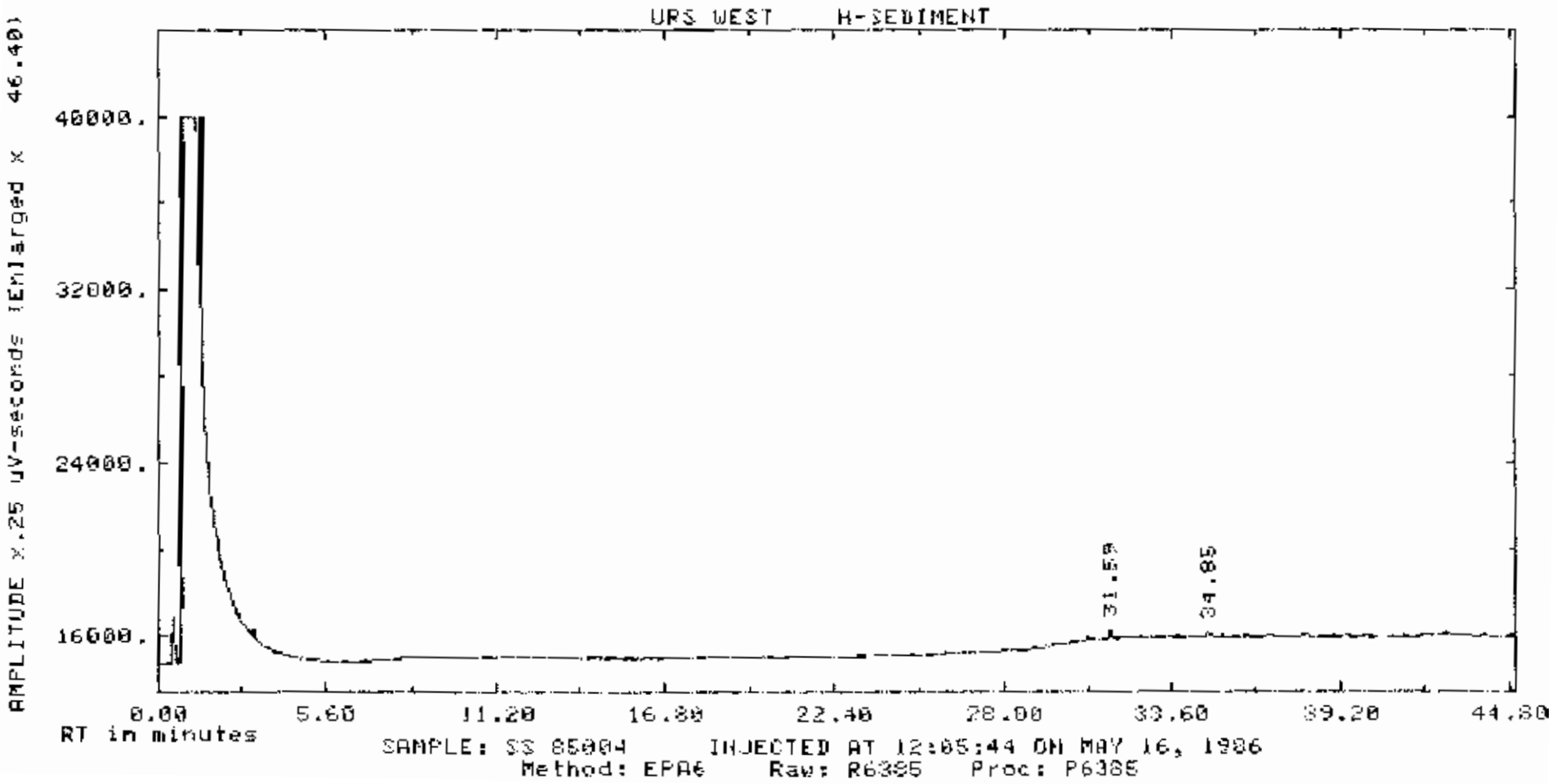
Area of Largest peak in sample 1757

Phenanthrene / Largest Peak = 38

[X] Ratio > 5.0 Analyze low level extract
Suggested dilution for GC/MS analysis 1:___ (up to 1:5)

[ ] Ratio < 5.0 Prepare medium level extract
Schedule Analysis code 300 and 384
Suggested dilution for GC/MS analysis 1:___

rev 7/15/84


URS WEST H-SEDIMENT
AMPLITUDE x.25 uV-seconds (Enlarged x 46.40)
40000.
32000.
24000.
16000.
31.56
34.85
0.00
5.60
11.20
16.80
22.40
28.00
33.60
39.20
44.80
RT in minutes
SAMPLE: SS 85004 INJECTED AT 12:05:44 ON MAY 16, 1986
Method: EPA6 Raw: R6385 Proc: P6385

Report: 95.00 Channel: 6 URS WEST H-SEDIMENT

Sample: SS 85004 Injected at 12:05:44 ON MAY 16, 1986

ZERO Method: EPA6 Seq: SEQ63 Subsq/Samp: 1/85 Btl: 85

Sl-width	MV/Min	Delay	Min-Ar	Bunch
.250	.300	3.00	1000	

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Iso
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 45.017 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
31.59	0.00	.10000E+01	1757. BB	62.426	
34.65	0.00	.10000E+01	1057. BB	37.574	

Total Area = 2814. Total AREA % = 1057.250

Processed data file: P6385 Raw data file: R6385