

II. SAMPLE DATA PACKAGE

The Sample Data Package shall include data for analyses of all samples in one Sample Delivery Group, including field samples, reanalyses, blanks, matrix spikes and matrix spike duplicates. The Sample Data Package consists of the following:

1. CASE NARRATIVE
2. TRAFFIC REPORTS
3. VOLATILES DATA
4. SEMIVOLATILES DATA
5. PESTICIDE / PCB DATA

CASE#: 18410 SDGF: 05 SAGF: _____

1. CASE NARRATIVE

This document shall be clearly labeled "Case Narrative" and shall contain: laboratory name; sample numbers in the Sample Delivery Group (SDG), differentiating between initial analyses and re-analyses; SDG number; Contract number; and detailed documentation of any quality control, sample, shipment and/or analytical problems encountered in processing the samples reported in the data package.

Whenever data from sample re-analyses are submitted, the Contractor shall state in the Case Narrative for each re-analysis, whether it considers the re-analysis to be billable, and if so, why.

The contractor must also include documentation of any internal quality control processes used, a summary of corrective actions taken, and the resolution.

CLP CASE NARRATIVE--CASE # 18410
Contract No. 2-88 (REVS) SOG No. 05
CompuChem Laboratories, Inc.

Sample Numbers: 738001-01, 738001-02, 738001-03, 738001-05, 738001-06,
738001-08, 738001-10, 738001-12, 738001-13, 738001-14,
738001-15, 738001-16, 738001-17, 738001-18, 738001-21,
738001-22, 738001-23, 738001-24, 738001-25, 738001-26.

This portion of Case # 18410 consisted of twenty liquid samples for volatile, semivolatile, and pesticide analysis. The samples were received intact on 11/14/89 and 11/15/89 via Federal Express in properly sealed shipping containers with traffic reports.

This narrative is concerned only with the volatile and semivolatile fractions of the above samples.

VOLATILES:

All volatile fractions were analyzed within holding time requirements. Samples 738001-02, -05, -06, -08, -10, -15, -24, and -26 contained neither TCL's nor TIC's (tentatively identified compounds). Samples 738001-05, -12, and -25 contained only a small amount of methylene chloride. Sample 738001-01 contained chloroethane, 1,1-dichloroethane (a??), and benzene. Samples 738001-14, -16, and -17 contained only carbon disulfide as a TIC. Sample 738001-18 contained benzene, ethylbenzene and xylenes. Because acetone and methylene chloride were outside their analytical ranges in the initial, neat analysis, two analyses were reported for sample 738001-22. Additional TCL's found included various ketones, chlorinated hydrocarbons, benzene, toluene, and xylenes. Sample 738001-23 was reported only at a dilution, since no analytes were lost in the dilution. Its TCL's included chloroethane, methylene chloride, carbon disulfide, benzene, toluene, chlorobenzene, and xylenes. Its TIC's included various substituted benzenes.

SEMIVOLATILES:

Because the initial extraction's method blank was unacceptable and the samples could not be reextracted within holding time requirements, samples 738001-01, -02, -03, -08, and -12 were cancelled per the client's instructions. In addition, because the MS/MSD were originally prepared using one of the cancelled samples, they could not be reextracted within holding time requirements. All other semivolatile fractions were extracted within holding time requirements. Two analyses were reported for samples 738001-06, -16, 21, and -24 to confirm sample matrix effects which caused acid surrogates to fail recovery criteria. These samples contained no TCL's. Samples 738001-05, -10, -13, -14, -15, -17, -18, -25, and -26 were also free of TCL's. Two analyses were reported for sample 738001-22 because benzoic acid exceeded its analytical range in the original, neat analysis. Other TCL's included phenol and substituted phenols. The surrogate 2,4,6-tribromophenol exceeded recovery criteria in the neat analysis. Sample 738001-23 contained phenol, 2,4-dimethylphenol, and naphthalene. With the exception of those samples mentioned above, all surrogates met recovery criteria. The matrix spike/matrix spike duplicate results were acceptable. The recoveries for 4-nitrophenol and 2,4-dinitrotoluene exceeded QC limits in both the MS and MSD.

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

Note: This report was paginated for reference and accountability in decreasing numerical sequence.

A handwritten signature in cursive script, reading "Sarah A. Hubbard", is written over a horizontal line.

Sarah A. Hubbard 12/6/99
Technical Reviewer



CLP CASE NARRATIVE -- CASE 18410
SDG NO. 05
Contract No. (2-88) REVS
CompuChem Laboratories, Inc.

Samplee: 738001-01, 738001-02, 738001-03, 738001-05, 738001-06, 738001-08, 738001-10, 738001-12, 738001-13, 738001-14, 738001-15, 738001-16, 738001-17, 738001-18, 738001-21, 738001-22, 738001-23, 738001-24, 738001-25, 738001-26

PESTICIDES

The samples were extracted and analyzed within the proper holding time requirements. There were no reportable levels of EPA Target Compound List (TCL) analytes found in any of the samples or the associated method blanks. Samples 738001-05, 738001-06, 738001-12, 738001-14, 738001-23, and 738001-24 required second GC column analyses. Results from these second GC column analyses confirmed that the TCL compounds of interest in the primary analyses were either below reportable detection limits (BDL) or did not compare well with the concentration values which were found in the second analyses. There were several outliers present in the %D column of the Form VIIIs of the sequences included in this SDG. All of the outliers were associated with either hexane blanks or samples which were not included with this SDG.

The duplicate sample spikes were re-extracted outside of holding time criteria. In the pesticide fractions, with some exceptions, recovery and RPD values met QC limits in the matrix spike, 738001-01 MS, and the matrix spike duplicate, 738001-01 MSD. Spiking compound Gamma-BHC failed recovery limits in the MSD. Gamma-BHC also failed RPD limits. Method blanks PBLK03, PBLK25, and PBLK19 required analyses on either two or three different GC columns because of the samples with which they were associated. Surrogate recovery values for the samples, blanks, and the sample spikes passed contract required QC limits. All other data generated from the MS/MSD met QC acceptance criteria.

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



COMPUCHEM
LABORATORIES

Cynthia E. Edwards 12/06/89
~~Cynthia E. Edwards~~
Technical Reviewer
06 December 1989

Note: This report is paginated for reference and
accountability in decreasing numerical sequence.



COMPUCHEM
LABORATORIES

QUALITY ASSURANCE NOTICE

With the advent of the new organics Statement of Work (SOW 2/88, Revision: 9/88) participants in EPA's Contract Laboratory Program (CLP) are required to provide hard copy and diskette deliverables. CompuChem employs the Finnigan QA Formaster Program (Format A) to generate these requirements using data files from our analytical instrumentation. Currently, and independently, quantitation reports are generated by the instruments and are used with CompuChem-developed software to calculate results. The GC and GC/MS quantitation routines employ the convention of carrying at least one extra significant figure until the mathematical computations are completed. Then, the quantitative results are rounded to the SOW-required number of significant figures for reporting. In addition, the algorithm used by the Formaster Program is slightly different than that employed in CompuChem's software routines. Therefore, results presented in the supportive data supplied with our deliverables packages may be slightly different than those which appear on the hard copy forms generated via Formaster.

This notice serves to alert the end users of these data packages as to the reason why slight differences may be observed.

Robert E. Meierer
Director of Quality Assurance

QUALITY ASSURANCE NOTICE

Specific guidelines are presented in the EPA CLP Organic Statement of Work for the positive qualitative identification of compounds through mass spectral interpretation. Applying these guidelines absolutely may not be possible when the nature of the sample is less than pure reference material. Where the mass spectral pattern of a compound to be identified demonstrates interferences or occlusion from one or more additional compounds, either unknowns, internal standards, or surrogate standards, the "+" sign is added to the top of the dual spectra page.

Linda Fowler 4/10/89
Linda Fowler
Sr. Quality Assurance Specialist

Robert E. Meier 4/12/89
Robert E. Meier
Vice President, Quality Assurance



COMPUCHEM LABORATORIES

CHANGES TO THE EPA'S ORGANIC STATEMENT OF WORK (SOW) FOR THE CONTRACT LABORATORY PROGRAM (CLP)

Effective with samples received at CompuChem Laboratories, Inc. on April 3, 1989, the new "SOW for Organics Analysis; Multi-Media, Multi-Concentration" will be in effect. The new SOW is dated 2/88 with revisions dated 9/88.

EPA introduces modifications to the CLP SOW for a variety of reasons. They are:

- as a result of technical caucuses attended by representatives from EPA regional laboratories and the CLP, new or modified analytical methods are required,
- as a result of analytical data being supplied to the Agency by the CLP laboratories, QC acceptance criteria are updated and made a requirement of the program,
- as a result of requirements by the end users of the data (the EPA regions and the Program Office), changes to the deliverable requirements of the CLP are necessary.

As a service to our clients utilizing the EPA CLP SOW for their analytical needs, the following information is provided to point out the substantive changes between the new SOW and the previous one (10/86 with revisions through 8/87).

"KEY" CHANGES TO THE ORGANIC SOW

- 1) Wide bore capillary columns (internal diameter greater than 0.32 mm) are allowed for pesticide/PCB analysis in addition to packed columns. Fused silica capillary columns remain an optional confirmation column.

- 2) The Sample Data Summary Package (SDSP) was introduced in the 10/86 SOW. The SDSP consists of copies of specific summary forms. In the 2/88 SOW, Form VIII, the Internal Standard Area Summary Form for volatile and semi-volatile analyses, has been added to the SDSP. Form VIII for volatiles and semi-volatiles is also to be included in the QC Summary Package.
- 3) A clarification for dealing with the three xylene isomers has been added. For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g., a diluted analysis is not required for total xylenes unless the concentration of either peak exceeds 200 ug/l.
- 4) The volatile target analyte, 2-butanone, is to be quantified against the first internal standard, bromochloromethane. In the prior SOW, 2-butanone was quantified against the second internal standard, 1,4-difluorobenzene.
- 5) Turnaround time for the delivery of data has been lowered from 40 days to 35 days for routine analytical service (RAS) work associated with the Superfund program. The turnaround time is calculated from the Validated Time of Sample Receipt (VTSR) of the last sample in the Sample Delivery Group (SDG).

The above represents the major changes in the new organic SDW for EPA's CLP. There are, of course, other minor changes which have not been addressed in this announcement. Of note, the hardcopy deliverable forms have not changed and, in fact, retain the same revision dates as the prior SOW.

If there are any questions concerning the information presented, please feel free to contact your account administrator at 1-800-822-3097.


Robert E. Neizerer
Vice President of Quality Assurance

DATA REPORTING QUALIFIERS

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

VALUE - If the result is a value greater than or equal to the detection limit, report the value.

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

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

and D = dilution factor

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

$$\frac{(330 \text{ U})}{0.76} \times 10 = 4300 \text{ U rounded to the appropriate number of significant figures}$$

For soil sample subjected to SPC clean-up procedures, the CRQL is also multiplied by 2, to account for the fact that only half of the extract is recovered.

- J** - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 ug/L, but a concentration of 3 ug/L is calculated, report it as 3J. The sample quantitation limit must be adjusted for both dilution and percent moisture as discussed for the U flag, so that if a sample with 24% moisture and a 1 to 10 dilution factor has a calculated concentration of 300 ug/L and a sample quantitation limit of 430 ug/kg, report the concentration as 300J on Form 1.
- E** - This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ug/l in the final extract shall be confirmed by GC/MS.

DATA REPORTING QUALIFIERS - PAGE 2

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

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


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


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

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

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.

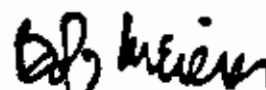

L. Richard Flynn,
Development Chemist


Bob Meyer,
Director of Quality Assurance

DETECTION LIMIT CALCULATION CLARIFICATION

To protect our GC columns from unnecessary contamination, soil samples prepared according to Caucus Protocol methods are routinely diluted 5:1. Through a series of experiments we have determined that our Instrument Detection Limit for pesticides is 5X lower than the EPA Contract Required Quantitation Limit (CROL). 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 X instead of 5.


Bill Desjardins
Manager, GC Laboratory


Bob Meiser
Director, Quality Assurance

2. TRAFFIC REPORTS

A copy of the Sample Traffic Reports in Item A for all of the samples in the SDG. The Traffic Reports shall be arranged in increasing EPA number order, considering both letters and numbering in ordering samples.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

CC# 301909

COLLECTED BY: <u>Robert J McNamee</u>		TELEPHONE NUMBER: <u>578 457 5677</u>	REGION NO: <u>C</u>
CONTRACT LAB: <u>Compu Chem</u>		COUNTY: <u>Oswego</u>	SAMPLING DATE: <u>11/13/89</u>
SAMPLING POINT: <u>Surface water location #1</u>		OUTFALL NUMBER: _____	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>
CASE NUMBER: <u>RA-789</u>		SOG NUMBER: <u>317</u>	SAMPLE NUMBER: <u>738001-12</u>
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____		SPDES NUMBER: _____	FLOW: _____ MGD
CHECK FOR MS/MD: <input type="checkbox"/> This Sample		TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs	

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

<input type="checkbox"/> 1. All (SPDES)—includes 2-8	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS
<input type="checkbox"/> 13. Settleable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TDC	<input type="checkbox"/> 21. Total Phenols
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 29. PCB's at 0.005 ug/L	<input type="checkbox"/> 30. PCB's congener method

CONTRACT LABORATORY PROTOCOLS

<input checked="" type="checkbox"/> 23. (ALL)—Water—includes 24-28	<input type="checkbox"/> 29. (ALL)—Soils/Sediments—includes 30-34
<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soils/Sediment—GC-MS
<input type="checkbox"/> 25. Volatile Organic Analysis VOA—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soils/Sediments—GC-MS
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soils/Sediment—GC
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soils/Sediment
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soils/Sediment
	<input type="checkbox"/> 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 8240)	<input type="checkbox"/> 41. BNA—(USEPA 8270)
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 8280)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 8290)	<input type="checkbox"/> 47. Appendix IX
<input type="checkbox"/> 48. Other _____		

MUNICIPAL SLUDGE

<input type="checkbox"/> 49. R5GB-01	<input type="checkbox"/> 50. R5RR-01	<input type="checkbox"/> 51. R5GR-01	<input type="checkbox"/> 52. R5RB-01	<input type="checkbox"/> 53. R5RI-01 (EP Toxicity-Metals only + R5RR-01)
<input type="checkbox"/> 54. R5RO-01	<input type="checkbox"/> 55. R5SB-01	<input type="checkbox"/> 56. R5PR-01	<input type="checkbox"/> 57. R5RR-02	<input type="checkbox"/> 58. Other _____

CAUTION (check if applicable)

Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

CC# 201907

COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>578 457 5677</u>		REGION NO: <u>0</u>
CONTRACT LAB: <u>Compu Chem</u>		COUNTY: <u>Oswego</u>	SAMPLING DATE: <u>11/13/89</u>	MILITARY TIME: <u>1750</u>
SAMPLING POINT: <u>Surface under location #1</u>		OUTFALL NUMBER: _____	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>	
		SPDES NUMBER: _____	FLOW: _____ MGD	
CASE NUMBER: <u>RA-789</u>	SDG NUMBER: <u>317</u>	SAMPLE NUMBER: <u>738001-12</u>	CHECK FOR MS/MD: <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____				
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS				
PRIORITY POLLUTANTS (Water Part 136) - SPDES <input type="checkbox"/> 1. All (SPDES)—includes 2-6 <input type="checkbox"/> 2. 13 PP Metals <input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS) <input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS) <input type="checkbox"/> 5. Cyanide <input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC) <input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC) <input type="checkbox"/> 8. Aromatic Volatiles (USEPA 807-GC) <input type="checkbox"/> 9. BOD <input type="checkbox"/> 10. pH <input type="checkbox"/> 11. COD <input type="checkbox"/> 12. TSS <input type="checkbox"/> 13. Setttable Solids <input type="checkbox"/> 14. TKN <input type="checkbox"/> 15. Ammonia <input type="checkbox"/> 16. Nitrate/Nitrite <input type="checkbox"/> 17. Total Phosphorus <input type="checkbox"/> 18. Reactive Phosphorus <input type="checkbox"/> 19. Oil/Grease <input type="checkbox"/> 20. TOC <input type="checkbox"/> 21. Total Phenols <input type="checkbox"/> 22. Other _____ <input type="checkbox"/> 23. PCB's at 0.025 ug/L <input type="checkbox"/> 24. PCB's congener method				
CONTRACT LABORATORY PROTOCOLS <input checked="" type="checkbox"/> 23. (ALL)—Water—includes 24-28 <input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS <input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS <input type="checkbox"/> 26. Pesticides/PCB's—Water—GC <input type="checkbox"/> 27. Metals—Water <input type="checkbox"/> 28. Cyanide—Water <input type="checkbox"/> 29. (ALL)—Soil/Sediments—includes 30-34 <input type="checkbox"/> 30. BNA/—Soil/Sediments—GC-MS <input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS <input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC <input type="checkbox"/> 33. Metals—Soil/Sediment <input type="checkbox"/> 34. Cyanide—Soil/Sediment <input type="checkbox"/> 35. Other _____				
HAZARDOUS WASTES/RCRA ANALYSIS SW-949 <input type="checkbox"/> 36. EP Toxicity <input type="checkbox"/> 37. EP Toxicity (Metals Only) <input type="checkbox"/> 38. Corrosivity <input type="checkbox"/> 39. Ignitability <input type="checkbox"/> 40. VOA—(USEPA 824) <input type="checkbox"/> 41. BNA—(USEPA 827) <input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808) <input type="checkbox"/> 43. TCLP <input type="checkbox"/> 44. TCLP (Metals Only) <input type="checkbox"/> 45. Reactivity <input type="checkbox"/> 46. Oxidiz (USEPA 828) <input type="checkbox"/> 47. Appendix IX <input type="checkbox"/> 48. Other _____				
MUNICIPAL SLUGS <input type="checkbox"/> 49. RSGS-01 <input type="checkbox"/> 50. RSR-01 <input type="checkbox"/> 51. RSR-01 (EP Toxicity-Metals only + RSR-01) <input type="checkbox"/> 52. RSR-02 <input type="checkbox"/> 53. Other _____				
<input type="checkbox"/> (if applicable) <input type="checkbox"/> If personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

CC# 301938

COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>578 457 5677</u>	REGION NO: <u>0</u>
CONTRACT LAB: <u>Comp Chem</u>	COUNTY: <u>Oswego</u>	SAMPLING DATE: <u>11/12/89</u>	MILITARY TIME: <u>1700</u>
SAMPLING POINT: <u>Surface water location 3</u>		OUTFALL NUMBER: _____	CHECK IF SAMPLING IS PART OF INSPECTION: <input type="checkbox"/>
CASE NUMBER: <u>RA-789</u>	SDG NUMBER: <u>317</u>	SAMPLE NUMBER: <u>738001-10</u>	SPDES NUMBER: _____
SAMPLE MATRIX:		CHECK FOR MS/MD: <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Term _____ hrs
<input type="checkbox"/> Air	<input type="checkbox"/> Soil/Sediment	<input type="checkbox"/> Groundwater	<input checked="" type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- | | | |
|---|---|---|
| <input type="checkbox"/> 1. All (SPDES)—includes 2-6 | <input type="checkbox"/> 2. 13 PP Metals | <input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS) |
| <input type="checkbox"/> 4. Acids Base/Neutrals (USEPA 825-GC/MS) | <input type="checkbox"/> 5. Cyanide | <input type="checkbox"/> 6. Pesticides/PCB's (USEPA 828-GC) |
| <input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC) | <input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC) | <input type="checkbox"/> 9. BOD |
| <input type="checkbox"/> 10. pH | <input type="checkbox"/> 11. COD | <input type="checkbox"/> 12. TSS |
| <input type="checkbox"/> 13. Settlesable Solids | <input type="checkbox"/> 14. TKN | <input type="checkbox"/> 15. Ammonia |
| <input type="checkbox"/> 16. Nitrate/Nitrite | <input type="checkbox"/> 17. Total Phosphorus | <input type="checkbox"/> 18. Reactive Phosphorus |
| <input type="checkbox"/> 19. Oil/Grease | <input type="checkbox"/> 20. TOC | <input type="checkbox"/> 21. Total Phenols |
| <input type="checkbox"/> 22. Other _____ | <input type="checkbox"/> 29. PCB's at 0.005 ug/L | <input type="checkbox"/> 30. PCB's congener method |

CONTRACT LABORATORY PROTOCOLS

- | | |
|--|--|
| <input checked="" type="checkbox"/> 23. (ALL)—Water—includes 24-28 | <input type="checkbox"/> 29. (ALL)—Soil/Sediments—includes 30-34 |
| <input type="checkbox"/> 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS | <input type="checkbox"/> 30. B/N/A—Soil/Sediment—GC-MS |
| <input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS | <input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS |
| <input type="checkbox"/> 26. Pesticides/PCB's—Water—GC | <input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC |
| <input type="checkbox"/> 27. Metals—Water | <input type="checkbox"/> 33. Metals—Soil/Sediment |
| <input type="checkbox"/> 28. Cyanide—Water | <input type="checkbox"/> 34. Cyanide—Soil/Sediment |
| | <input type="checkbox"/> 35. Other _____ |

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- | | | |
|---|--|---|
| <input type="checkbox"/> 36. EP Toxicity | <input type="checkbox"/> 37. EP Toxicity (Metals Only) | <input type="checkbox"/> 38. Ignitability |
| <input type="checkbox"/> 39. Corrosivity | <input type="checkbox"/> 40. VOA—(USEPA 824) | <input type="checkbox"/> 41. BMA—(USEPA 827) |
| <input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808) | <input type="checkbox"/> 43. TCLP | <input type="checkbox"/> 44. TCLP (Metals Only) |
| <input type="checkbox"/> 45. Reactivity | <input type="checkbox"/> 46. Dioxin (USEPA 828) | <input type="checkbox"/> 47. Appendix IX |
| <input type="checkbox"/> 48. Other _____ | | |

MUNICIPAL SLUDGE

- | | | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|
| <input type="checkbox"/> 49. R6GB-01 | <input type="checkbox"/> 50. R6BR-01 | <input type="checkbox"/> 51. R6BR-01 | <input type="checkbox"/> 52. R6RB-01 | <input type="checkbox"/> 53. R6RB-01 (EP Toxicity-Metals only + R6RR-01) |
| <input type="checkbox"/> 54. R6RO-01 | <input type="checkbox"/> 55. R6SB-01 | <input type="checkbox"/> 56. R6SR-01 | <input type="checkbox"/> 57. R6RP-02 | <input type="checkbox"/> 58. Other _____ |

CAUTION (check if applicable)

- Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

111# 301932

COLLECTED BY: <u>Robert J. McNamara</u>		TELEPHONE NUMBER: <u>578 457 5277</u>		REGION NO: <u>0</u>
CONTRACT LAB: <u>Comp Chem</u>		COUNTY: <u>Oswego</u>	SAMPLING DATE: <u>11/13/89</u>	MILITARY TIME: <u>1700</u>
SAMPLING POINT: <u>Surface water location 3</u>			OUTFALL NUMBER: _____	CHECK IF SAMPLING IS PART OF INSPECTION: <input type="checkbox"/>
			SPDES NUMBER: _____	FLOW: _____ MGD
CASE NUMBER: <u>RA 789</u>	SQG NUMBER: <u>317</u>	SAMPLE NUMBER: <u>738001-10</u>	CHECK FOR MS/MD: <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____				
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS				
PRIORITY POLLUTANTS (Water Part 136)—SPDES				
<input type="checkbox"/> 1. All (SPDES)—Includes 2-8	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)		
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 806-GC)		
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD		
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS		
<input type="checkbox"/> 13. Suspended Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia		
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus		
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols		
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 29. PCB's at 0.055 ug/L	<input type="checkbox"/> 30. PCB's congeners method:		
CONTRACT LABORATORY PROTOCOLS				
<input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 24-28	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34			
<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS			
<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS			
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC			
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment			
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment			
<input type="checkbox"/> 35. Other _____	<input type="checkbox"/> 35. Other _____			
HAZARDOUS WASTES/RCRA ANALYSIS SW-846				
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability		
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824)	<input type="checkbox"/> 41. BNA—(USEPA 827)		
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 806)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)		
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Hexachlor (USEPA 828)	<input type="checkbox"/> 47. Appendix IX		
<input type="checkbox"/> 48. Other _____				
MUNICIPAL SLUDGE				
<input type="checkbox"/> 49. R6GB-01	<input type="checkbox"/> 52. R6PB-01	<input type="checkbox"/> 53. R6PB-01 (EP Toxicity—Metals only + R6RR-01)		
<input type="checkbox"/> 54. R6RO-01	<input type="checkbox"/> 57. R6PB-02	<input type="checkbox"/> 58. Other _____		
<p>(Not applicable)</p> <p>expected to use caution when handling DEC samples. However, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>				

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

cc# 301918

COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>518 457-4677</u>	REGION NO: <u>0</u>																								
CONTRACT LAB: <u>Compuchem</u>		COUNTY: <u>Oswego</u>	SAMPLING DATE: <u>11/13/89</u>																								
MILITARY TIME: <u>1200</u>		CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>																									
SAMPLING POINT: <u>Monitoring Well OS-1</u>		OUTFALL NUMBER: _____	SPDES NUMBER: _____																								
CASE NUMBER: <u>RA-789</u>		SDG NUMBER: <u>317</u>	SAMPLE NUMBER: <u>738001-03</u>																								
CHECK FOR MS/MD <input type="checkbox"/> This Sample		TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs																									
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____																											
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS																											
<p>PRIORITY POLLUTANTS (Water Part 136)—SPDES</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> 1. All (SPDES)—includes 2-6</td> <td><input type="checkbox"/> 2. 13 PP Metals</td> <td><input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)</td> </tr> <tr> <td><input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)</td> <td><input type="checkbox"/> 5. Cyanide</td> <td><input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)</td> </tr> <tr> <td><input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)</td> <td><input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)</td> <td><input type="checkbox"/> 9. BOD</td> </tr> <tr> <td><input type="checkbox"/> 10. pH</td> <td><input type="checkbox"/> 11. COD</td> <td><input type="checkbox"/> 12. TSS</td> </tr> <tr> <td><input type="checkbox"/> 13. Settleable Solids</td> <td><input type="checkbox"/> 14. TKN</td> <td><input type="checkbox"/> 15. Ammonia</td> </tr> <tr> <td><input type="checkbox"/> 16. Nitrate/Nitrite</td> <td><input type="checkbox"/> 17. Total Phosphorus</td> <td><input type="checkbox"/> 18. Reactive Phosphorus</td> </tr> <tr> <td><input type="checkbox"/> 19. Oil/Grease</td> <td><input type="checkbox"/> 20. TOC</td> <td><input type="checkbox"/> 21. Total Phenols</td> </tr> <tr> <td><input type="checkbox"/> 22. Other _____</td> <td><input type="checkbox"/> 29. PCB's at 0.065 ug/L</td> <td><input type="checkbox"/> 30. PCB's cohexamer method</td> </tr> </table>				<input type="checkbox"/> 1. All (SPDES)—includes 2-6	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)	<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)	<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD	<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS	<input type="checkbox"/> 13. Settleable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia	<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus	<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols	<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 29. PCB's at 0.065 ug/L	<input type="checkbox"/> 30. PCB's cohexamer method
<input type="checkbox"/> 1. All (SPDES)—includes 2-6	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)																									
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)																									
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD																									
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<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus																									
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<p>CONTRACT LABORATORY PROTOCOLS</p> <table style="width:100%;"> <tr> <td><input checked="" type="checkbox"/> 23. (ALL)—Water—includes 24-28</td> <td><input type="checkbox"/> 29. (ALL)—Soil/Sediments—includes 30-34</td> </tr> <tr> <td><input type="checkbox"/> 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS</td> <td><input type="checkbox"/> 30. B/N/A—Soil/Sediment—GC/MS</td> </tr> <tr> <td><input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC/MS</td> <td><input type="checkbox"/> 31. VOA—Soil/Sediments—GC/MS</td> </tr> <tr> <td><input type="checkbox"/> 26. Pesticides/PCB's—Water—GC</td> <td><input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC</td> </tr> <tr> <td><input type="checkbox"/> 27. Metals—Water</td> <td><input type="checkbox"/> 33. Metals—Soil/Sediment</td> </tr> <tr> <td><input type="checkbox"/> 28. Cyanide—Water</td> <td><input type="checkbox"/> 34. Cyanide—Soil/Sediment</td> </tr> <tr> <td></td> <td><input type="checkbox"/> 35. Other _____</td> </tr> </table>				<input checked="" type="checkbox"/> 23. (ALL)—Water—includes 24-28	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—includes 30-34	<input type="checkbox"/> 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS	<input type="checkbox"/> 30. B/N/A—Soil/Sediment—GC/MS	<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC/MS	<input type="checkbox"/> 31. VOA—Soil/Sediments—GC/MS	<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC	<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment	<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment		<input type="checkbox"/> 35. Other _____										
<input checked="" type="checkbox"/> 23. (ALL)—Water—includes 24-28	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—includes 30-34																										
<input type="checkbox"/> 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS	<input type="checkbox"/> 30. B/N/A—Soil/Sediment—GC/MS																										
<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC/MS	<input type="checkbox"/> 31. VOA—Soil/Sediments—GC/MS																										
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC																										
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment																										
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment																										
	<input type="checkbox"/> 35. Other _____																										
<p>HAZARDOUS WASTES/RCRA ANALYSIS SW-846</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> 36. EP Toxicity</td> <td><input type="checkbox"/> 37. EP Toxicity (Metals Only)</td> <td><input type="checkbox"/> 38. Ignitability</td> </tr> <tr> <td><input type="checkbox"/> 39. Corrosivity</td> <td><input type="checkbox"/> 40. VOA—(USEPA 824G)</td> <td><input type="checkbox"/> 41. BNA—(USEPA 827D)</td> </tr> <tr> <td><input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808G)</td> <td><input type="checkbox"/> 43. TCLP</td> <td><input type="checkbox"/> 44. TCLP (Metals Only)</td> </tr> <tr> <td><input type="checkbox"/> 45. Reactivity</td> <td><input type="checkbox"/> 46. Dioxin (USEPA 828G)</td> <td><input type="checkbox"/> 47. Appendix IX</td> </tr> <tr> <td><input type="checkbox"/> 48. Other _____</td> <td></td> <td></td> </tr> </table>				<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability	<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824G)	<input type="checkbox"/> 41. BNA—(USEPA 827D)	<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808G)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)	<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 828G)	<input type="checkbox"/> 47. Appendix IX	<input type="checkbox"/> 48. Other _____											
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability																									
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<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808G)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)																									
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 828G)	<input type="checkbox"/> 47. Appendix IX																									
<input type="checkbox"/> 48. Other _____																											
<p>MUNICIPAL SLUDGE</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> 49. RSGG-01</td> <td><input type="checkbox"/> 50. RBSA-01</td> <td><input type="checkbox"/> 51. RSGG-01</td> <td><input type="checkbox"/> 52. RSRB-01</td> <td><input type="checkbox"/> 53. RSGG-01 (EP Toxicity-Metals only + RSRB-01)</td> </tr> <tr> <td><input type="checkbox"/> 54. RSRD-01</td> <td><input type="checkbox"/> 55. RBSB-01</td> <td><input type="checkbox"/> 56. RSGG-01</td> <td><input type="checkbox"/> 57. RSRB-02</td> <td><input type="checkbox"/> 58. Other _____</td> </tr> </table>				<input type="checkbox"/> 49. RSGG-01	<input type="checkbox"/> 50. RBSA-01	<input type="checkbox"/> 51. RSGG-01	<input type="checkbox"/> 52. RSRB-01	<input type="checkbox"/> 53. RSGG-01 (EP Toxicity-Metals only + RSRB-01)	<input type="checkbox"/> 54. RSRD-01	<input type="checkbox"/> 55. RBSB-01	<input type="checkbox"/> 56. RSGG-01	<input type="checkbox"/> 57. RSRB-02	<input type="checkbox"/> 58. Other _____														
<input type="checkbox"/> 49. RSGG-01	<input type="checkbox"/> 50. RBSA-01	<input type="checkbox"/> 51. RSGG-01	<input type="checkbox"/> 52. RSRB-01	<input type="checkbox"/> 53. RSGG-01 (EP Toxicity-Metals only + RSRB-01)																							
<input type="checkbox"/> 54. RSRD-01	<input type="checkbox"/> 55. RBSB-01	<input type="checkbox"/> 56. RSGG-01	<input type="checkbox"/> 57. RSRB-02	<input type="checkbox"/> 58. Other _____																							
<p>CAUTION (check if applicable)</p> <p><input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>																											
<p>Place QA Label Here</p>																											

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

CAF 301718

COLLECTED BY: <i>Robert J. McNamee</i>		TELEPHONE NUMBER: <i>518 457 4677</i>		REGION NO: <i>0</i>	
CONTRACT LAB: <i>Compuchem</i>		COUNTY: <i>Oswego</i>		SAMPLING DATE: <i>11/13/89</i>	
MILITARY TIME: <i>1200</i>		SAMPLING POINT: <i>\$ Monitoring Well OS-1</i>		CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>	
CASE NUMBER: <i>RA-789</i>		SDG NUMBER: <i>317</i>		SAMPLE NUMBER: <i>738001-03</i>	
CHECK FOR MS/MD <input type="checkbox"/> This Sample		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Term _____ hrs		FLOW _____ MGD	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____					
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS					
PRIORITY POLLUTANTS (Water Part 136)—SPDES <input type="checkbox"/> 1. All (SPDES)—includes 2-8 <input type="checkbox"/> 2. 13 PP Metals <input type="checkbox"/> 3. Volatiles—USEPA 624 (GC/MS) <input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 625-GC/MS) <input type="checkbox"/> 5. Cyanide <input type="checkbox"/> 6. Pesticides/PCB's (USEPA 608-GC) <input type="checkbox"/> 7. Halogenated Volatiles (USEPA 601-GC) <input type="checkbox"/> 8. Aromatic Volatiles (USEPA 602-GC) <input type="checkbox"/> 9. BOD <input type="checkbox"/> 10. pH <input type="checkbox"/> 11. COD <input type="checkbox"/> 12. TSS <input type="checkbox"/> 13. Settleable Solids <input type="checkbox"/> 14. TKN <input type="checkbox"/> 15. Ammonia <input type="checkbox"/> 16. Nitrate/Nitrite <input type="checkbox"/> 17. Total Phosphorus <input type="checkbox"/> 18. Reactive Phosphorus <input type="checkbox"/> 19. Oil/Grease <input type="checkbox"/> 20. TOC <input type="checkbox"/> 21. Total Phencols <input type="checkbox"/> 22. Other _____ <input type="checkbox"/> 23. PCB's at 0.005 ug/L <input type="checkbox"/> 24. PCB's congener method					
CONTRACT LABORATORY PROTOCOLS <input checked="" type="checkbox"/> 23. (ALL)—Water—includes 24-28 <input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS <input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS <input type="checkbox"/> 26. Pesticides/PCB's—Water—GC <input type="checkbox"/> 27. Metals—Water <input type="checkbox"/> 28. Cyanide—Water <input type="checkbox"/> 29. (ALL)—Soil/Sediments—includes 30-34 <input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS <input type="checkbox"/> 31. VOA—Soil/Sediment—GC-MS <input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC <input type="checkbox"/> 33. Metals—Soil/Sediment <input type="checkbox"/> 34. Cyanide—Soil/Sediment <input type="checkbox"/> 35. Other _____					
HAZARDOUS WASTE/RCRA ANALYSIS SW-846 <input type="checkbox"/> 36. EP Toxicity <input type="checkbox"/> 37. EP Toxicity (Metals Only) <input type="checkbox"/> 38. Ignitability <input type="checkbox"/> 39. Corrosivity <input type="checkbox"/> 40. VOA—(USEPA 8240) <input type="checkbox"/> 41. BNA—(USEPA 8270) <input type="checkbox"/> 42. Pesticides/PCB's (USEPA 8080) <input type="checkbox"/> 43. TCLP <input type="checkbox"/> 44. TCLP (Metals Only) <input type="checkbox"/> 45. Reactivity <input type="checkbox"/> 46. Dioxin (USEPA 8280) <input type="checkbox"/> 47. Appendix IX <input type="checkbox"/> 48. Other _____					
MUNICIPAL SLUDGE <input type="checkbox"/> 49. RSGE-01 <input type="checkbox"/> 50. RSGE-02 <input type="checkbox"/> 51. RSRP-01 <input type="checkbox"/> 52. RSRP-02 <input type="checkbox"/> 53. RSRP-01 (EP Toxicity-Metals only + RSRP-01) <input type="checkbox"/> 54. Other _____					
(applicable) <input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

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CC# 301922

COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>98457 5277</u>		REGION NO: <u>0</u>
CONTRACT LAB: <u>CompuChem</u>		COUNTY: <u>Oswego</u>	SAMPLING DATE: <u>11/13/89</u>	MILITARY TIME: <u>1610</u>
SAMPLING POINT: <u>Surface water location 2</u>			OUTFALL NUMBER: _____	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>
			SPDES NUMBER: _____	FLOW: _____ MGD
CASE NUMBER: <u>RA-789</u>	SDG NUMBER: <u>317</u>	SAMPLE NUMBER: <u>738001-08</u>	CHECK FOR MS/MD: <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____				
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS				
PRIORITY POLLUTANTS (Water Part 136)—SPDES				
<input type="checkbox"/> 1. All (SPDES)—Includes 2-6	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)		
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanides	<input type="checkbox"/> 8. Pesticides/PCB's (USEPA 808-GC)		
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD		
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS		
<input type="checkbox"/> 13. Settleable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia		
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus		
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols		
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 59. PCB's at 0.085 ug/L	<input type="checkbox"/> 60. PCB's congeners method		
CONTRACT LABORATORY PROTOCOLS				
<input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 24-29	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34			
<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS			
<input type="checkbox"/> 25. Volatile Organic Analysis VOA—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS			
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC			
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment			
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment			
	<input type="checkbox"/> 35. Other _____			
HAZARDOUS WASTES/RCRA ANALYSIS SW-846				
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 39. Ignitability		
<input type="checkbox"/> 38. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824)	<input type="checkbox"/> 41. BNA—(USEPA 827)		
<input type="checkbox"/> 43. Pesticides/PCB's (USEPA 808)	<input type="checkbox"/> 42. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)		
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 828)	<input type="checkbox"/> 47. Appendix IX		
<input type="checkbox"/> 48. Other _____				
MUNICIPAL SLUDGE				
<input type="checkbox"/> 49. R5GB-01	<input type="checkbox"/> 50. R5RR-01	<input type="checkbox"/> 51. R5GR-01	<input type="checkbox"/> 52. R5RB-01	<input type="checkbox"/> 53. R5RI-01 (EP Toxicity-Metals only + R5RR-01)
<input type="checkbox"/> 54. R5RD-01	<input type="checkbox"/> 55. R5SB-01	<input type="checkbox"/> 56. R5RR-01	<input type="checkbox"/> 57. R5RR-02	<input type="checkbox"/> 58. Other _____
<p>CAUTION (check if applicable)</p> <p><input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>				
<p>Place QA Label Here</p>				

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET**

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11# 21722

COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>98451 5677</u>		REGION NO: <u>0</u>	
CONTRACT LAB: <u>CompuChem</u>		COUNTY: <u>Oswego</u>		SAMPLING DATE: <u>11/13/89</u>	
MILITARY TIME: <u>1610</u>		OUTFALL NUMBER: _____		CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>	
SAMPLING POINT: <u>Surface water location 2</u>		SPDES NUMBER: _____		FLOW: _____ MGD	
CASE NUMBER: <u>RA-789</u>	SQG NUMBER: <u>317</u>	SAMPLE NUMBER: <u>738001-08</u>	CHECK FOR MS/MD: <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term <input type="checkbox"/> hrs	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____					
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS					
PRIORITY POLLUTANTS (Water Part 135)—SPDES					
<input checked="" type="checkbox"/> 1. All (SPDES)—includes 2-6	<input type="checkbox"/> 2. 13 PF Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)			
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)			
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD			
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS			
<input type="checkbox"/> 13. Settlesable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia			
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 16. Reactive Phosphorus			
<input type="checkbox"/> 18. Oil/Grease	<input type="checkbox"/> 18. TOC	<input type="checkbox"/> 21. Total Phenols			
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 19. PCB's at 0.005 ug/L	<input type="checkbox"/> 20. PCB's congener method			
CONTRACT LABORATORY PROTOCOLS					
<input checked="" type="checkbox"/> 23. (ALL)—Water—includes 24-28	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—includes 30-34				
<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS				
<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS				
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC				
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediments				
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment				
	<input type="checkbox"/> 35. Other _____				
HAZARDOUS WASTES/RCRA ANALYSIS SW-846					
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability			
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824G)	<input type="checkbox"/> 41. BNA—(USEPA 827G)			
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808G)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)			
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 828G)	<input type="checkbox"/> 47. Appendix IX			
<input type="checkbox"/> 48. Other _____					
MUNICIPAL SLUDGE					
<input type="checkbox"/> 49. RSGS-01	<input type="checkbox"/> 52. RSRB-01	<input type="checkbox"/> 53. RSRB-01 (EP Toxicity-Metals only + RSRB-01)			
<input type="checkbox"/> 54. RSRB-02	<input type="checkbox"/> 57. RSRB-02	<input type="checkbox"/> 58. Other _____			
<p align="center">Applicable)</p> <p align="center">Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

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CC# 301937

COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>5184575677</u>		REGION NO: <u>0</u>
CONTRACT LAB: <u>Compu Chem</u>		COUNTY: <u>Oswego</u>	SAMPLING DATE: <u>10/45</u>	MILITARY TIME:
SAMPLING POINT: <u>Monitoring Well OI-1</u>		OUTFALL NUMBER	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>	
		SPDES NUMBER	FLOW _____ MGD	
CASE NUMBER: <u>RA-789</u>	SDG NUMBER: <u>317</u>	SAMPLE NUMBER: <u>738001-05</u>	CHECK FOR MB/MD <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input type="checkbox"/> Composite <input type="checkbox"/> Grab <input type="checkbox"/> Tarm _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____				
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS				
PRIORITY POLLUTANTS (Water Part 138)—SPDES				
<input type="checkbox"/> 1. All (SPDES)—Includes 2-8	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)		
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)		
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD		
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS		
<input type="checkbox"/> 13. Settleable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia		
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus		
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols		
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 29. PCB's at 0.05 ug/L	<input type="checkbox"/> 30. PCB's congener method		
CONTRACT LABORATORY PROTOCOLS				
<input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 24-28	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34			
<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS			
<input type="checkbox"/> 25. Volatile Organic Analysis VOA—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS			
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC			
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment			
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment			
<input type="checkbox"/> 35. Other _____				
HAZARDOUS WASTES/RCRA ANALYSIS SW-846				
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability		
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 8240)	<input type="checkbox"/> 41. BNA—(USEPA 8270)		
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 8080)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)		
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 8280)	<input type="checkbox"/> 47. Appendix IX		
<input type="checkbox"/> 48. Other _____				
MUNICIPAL SLUDGE				
<input type="checkbox"/> 49. R5GB-01	<input type="checkbox"/> 50. R5SR-01	<input type="checkbox"/> 51. R5GP-01	<input type="checkbox"/> 52. R5FB-01	<input type="checkbox"/> 53. R5PI-01 (EP Toxicity-Metals only + R5RR-01)
<input type="checkbox"/> 54. R5RO-01	<input type="checkbox"/> 55. R5SB-01	<input type="checkbox"/> 56. R5RA-01	<input type="checkbox"/> 57. R5RR-02	<input type="checkbox"/> 58. Other _____
CAUTION (check if applicable) <input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).				
Place QA Label Here				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

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00# 301737

COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>5184575677</u>		REGION NO: <u>0</u>
CONTRACT LAB: <u>Compu Chem</u>		COUNTY: <u>Oswego</u>	SAMPLING DATE: <u>10/45</u>	MILITARY TIME:
SAMPLING POINT: <u>Monitoring Well OI-1</u>		OUTFALL NUMBER	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>	
		SPDES NUMBER	FLOW	MGD
CASE NUMBER: <u>RA-789</u>	SDG NUMBER: <u>317</u>	SAMPLE NUMBER: <u>738001-05</u>	CHECK FOR MSMD: <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input type="checkbox"/> Composite <input type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____				
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS				
PRIORITY POLLUTANTS (Water Part 136)—SPDES				
<input type="checkbox"/> 1. All (SPDES)—includes 2-6	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)		
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 8. Pesticides/PCB's (USEPA 808-GC)		
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 6. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD		
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS		
<input type="checkbox"/> 13. Settleable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia		
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus		
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phosphorus		
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 29. PCB's at 0.025 ug/L	<input type="checkbox"/> 30. PCB's congener method		
CONTRACT LABORATORY PROTOCOLS				
<input checked="" type="checkbox"/> 23. (ALL)—Water—includes 24-29	<input type="checkbox"/> 28. (ALL)—Soil/Sediments—includes 30-34			
<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS			
<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS			
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC			
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment			
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment			
	<input type="checkbox"/> 35. Other _____			
HAZARDOUS WASTES/RCRA ANALYSIS SW-846				
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability		
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824)	<input type="checkbox"/> 41. BNA—(USEPA 827)		
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)		
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 828)	<input type="checkbox"/> 47. Appendix IX		
<input type="checkbox"/> 48. Other _____				
MUNICIPAL SLUDGE				
<input type="checkbox"/> 49. RSGB-01	<input type="checkbox"/> 52. RSRB-01	<input type="checkbox"/> 53. RSRB-01 (EP Toxicity-Metals only + RSRB-01)		
<input type="checkbox"/> 54. RSRD-01	<input type="checkbox"/> 57. RSRB-02	<input type="checkbox"/> 58. Other _____		
<input type="checkbox"/> (If applicable) <input type="checkbox"/> All personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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CCT# 301910

COLLECTED BY: <i>Robert J. McNamee</i>		TELEPHONE NUMBER: <i>518-457-3677</i>		REGION NO: <i>0</i>
CONTRACT LAB: <i>Compu Chem</i>		COUNTY: <i>Oswego</i>	SAMPLING DATE: <i>11/13/89</i>	MILITARY TIME: <i>1020</i>
SAMPLING POINT: <i>Surface water location 4</i>			OUTFALL NUMBER _____	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>
			SPDES NUMBER _____	FLOW _____ MGD
CASE NUMBER <i>RA-789</i>	SDG NUMBER <i>317</i>	SAMPLE NUMBER <i>738001-02</i>	CHECK FOR MS/MD <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____				
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS				
PRIORITY POLLUTANTS (Water Part 136)—SPDES				
<input type="checkbox"/> 1. All (SPDES)—Includes 2-8	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 624 (GC/MS)		
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)		
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 602-GC)	<input type="checkbox"/> 9. BOD		
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS		
<input type="checkbox"/> 13. Settlesable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia		
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus		
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols		
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 29. PCB's at 0.065 ug/L	<input type="checkbox"/> 30. PCB's congener method		
CONTRACT LABORATORY PROTOCOLS				
<input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 24-28	<input type="checkbox"/> 29. (ALL)—Soils/Sediments—Includes 30-34			
<input type="checkbox"/> 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS	<input type="checkbox"/> 30. B/N/A—Soils/Sediment—GC/MS			
<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC/MS	<input type="checkbox"/> 31. VOA—Soils/Sediments—GC/MS			
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soils/Sediment—GC			
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soils/Sediment			
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soils/Sediment			
<input type="checkbox"/> 35. Other _____				
HAZARDOUS WASTES/RCRA ANALYSIS SW-846				
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability		
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 8240)	<input type="checkbox"/> 41. BNA—(USEPA 8270)		
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 8080)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)		
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 8280)	<input type="checkbox"/> 47. Appendix IX		
<input type="checkbox"/> 48. Other _____				
MUNICIPAL SLUDGE				
<input type="checkbox"/> 49. RSGB-01	<input type="checkbox"/> 50. RSBR-01	<input type="checkbox"/> 51. RSGR-01	<input type="checkbox"/> 52. RSRB-01	<input type="checkbox"/> 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
<input type="checkbox"/> 54. RSRO-01	<input type="checkbox"/> 55. RSBB-01	<input type="checkbox"/> 56. RSPP-01	<input type="checkbox"/> 57. RSRR-02	<input type="checkbox"/> 58. Other _____
CAUTION (check if applicable)				
<input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).				
Place QA Label Here				

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

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CC# 3-1910

COLLECTED BY: <i>Robert J. McNamee</i>		TELEPHONE NUMBER: <i>578-457-3677</i>		REGION NO: <i>0</i>	
CONTRACT LAB: <i>CompuChem</i>		COUNTY: <i>OSWEGO</i>		SAMPLING DATE: <i>11/13/69</i>	
SAMPLING POINT: <i>Surface water location 4</i>		OUTFALL NUMBER _____		CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>	
CASE NUMBER: <i>RA-789</i>		SDG NUMBER: <i>317</i>		SAMPLE NUMBER: <i>738001-02</i>	
CHECK FOR MS/MD <input type="checkbox"/> This Sample		TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs			
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____					
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS					
PRIORITY POLLUTANTS (Water Part 136)—SPDES					
<input type="checkbox"/> 1. All (SPDES)—Includes 2-6	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)			
<input type="checkbox"/> 4. Acids/Basic/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)			
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 807-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD			
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS			
<input type="checkbox"/> 13. Settlesable Solids	<input type="checkbox"/> 14. TRN	<input type="checkbox"/> 15. Ammonia			
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus			
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols			
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 23. PCB's at 0.005 ug/L	<input type="checkbox"/> 23. PCB's congener method			
CONTRACT LABORATORY PROTOCOLS					
<input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 24-28	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34				
<input type="checkbox"/> 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS	<input type="checkbox"/> 30. B/N/A—Soil/Sediment—GC-MS				
<input type="checkbox"/> 25. Volatile Organic Analysis (VQA)—Water—GC-MS	<input type="checkbox"/> 31. VQA—Soil/Sediment—GC-MS				
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC				
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment				
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment				
<input type="checkbox"/> 35. Other _____					
HAZARDOUS WASTES/RCRA ANALYSIS SW-846					
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability			
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824)	<input type="checkbox"/> 41. BNA—(USEPA 837)			
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)			
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 820)	<input type="checkbox"/> 47. Appendix IX			
<input type="checkbox"/> 48. Other _____					
MUNICIPAL SLUDGE					
<input type="checkbox"/> 49. RSGB-01	<input type="checkbox"/> 50. RSGB-02	<input type="checkbox"/> 51. RSPB-01	<input type="checkbox"/> 52. RSPB-01 (EP Toxicity-Metals only + RSMR-01)		
<input type="checkbox"/> 54. RSRQ-01	<input type="checkbox"/> 55. RSRQ-02	<input type="checkbox"/> 56. RSRP-02	<input type="checkbox"/> 58. Other _____		
<p>(Not applicable)</p> <p>It is expected to use caution when handling DEC samples. However, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

CC# 301917

COLLECTED BY: <i>Robert J. McNamee</i>		TELEPHONE NUMBER: <i>518-457-2077</i>	REGION NO: <i>0</i>
CONTRACT LAB: <i>Compu Chem</i>		COUNTY: <i>Oswego</i>	SAMPLING DATE: <i>11/13/89</i>
SAMPLING POINT: <i>Monitoring Well OB-1</i>		OUTFALL NUMBER: _____	CHECK IF SAMPLING IS PART OF INSPECTION: <input type="checkbox"/>
		SPDES NUMBER: _____	FLOW: _____ MGD
CASE NUMBER: <i>RA-789</i>	SDG NUMBER: <i>317</i>	SAMPLE NUMBER: <i>738001-01</i>	CHECK FOR MS/MD: <input type="checkbox"/> This Sample
			TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136)—SPDES			
<input type="checkbox"/> 1. All (SPDES)—Includes 2-6	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)	
<input type="checkbox"/> 4. Acids Base/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)	
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD	
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS	
<input type="checkbox"/> 13. Settleable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia	
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus	
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols	
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 29. PCB's at 0.085 ug/L	<input type="checkbox"/> 30. PCB's congener method	
CONTRACT LABORATORY PROTOCOLS			
<input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 24-28	<input type="checkbox"/> 29. (ALL)—Soils/Sediments—Includes 30-34		
<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soils/Sediment—GC-MS		
<input type="checkbox"/> 25. Volatile Organic Analyte (VOA)—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soils/Sediments—GC-MS		
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soils/Sediment—GC		
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soils/Sediment		
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soils/Sediment		
<input type="checkbox"/> 35. Other _____			
HAZARDOUS WASTES/RCRA ANALYSIS SW-846			
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability	
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824D)	<input type="checkbox"/> 41. BNA—(USEPA 827D)	
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)	
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 828)	<input type="checkbox"/> 47. Appendix IX	
<input type="checkbox"/> 48. Other _____			
MUNICIPAL SLUDGE			
<input type="checkbox"/> 49. RSQB-01	<input type="checkbox"/> 50. RSQA-01	<input type="checkbox"/> 51. RSQR-01	<input type="checkbox"/> 52. RSRB-01
<input type="checkbox"/> 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)	<input type="checkbox"/> 54. RSRO-01	<input type="checkbox"/> 55. RSAB-01	<input type="checkbox"/> 56. RSRA-01
<input type="checkbox"/> 57. RSRR-02	<input type="checkbox"/> 58. Other _____		
CAUTION (check if applicable) <input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).			
Place QA Label Here			

CONTRACT LAB SAMPLE INFORMATION SHEET

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CC# 301117

COLLECTED BY: <i>Robert J. McNamee</i>		TELEPHONE NUMBER: <i>518-457-5077</i>		REGION NO: <i>0</i>	
CONTRACT LAB: <i>CompuChem</i>		COUNTY: <i>Oswego</i>		SAMPLING DATE: <i>11/13/89</i>	
SAMPLING POINT: <i>Monitoring Well QA-1</i>		OUTFALL NUMBER: _____		CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>	
CASE NUMBER: <i>RA-789</i>		SDG NUMBER: <i>317</i>		SAMPLE NUMBER: <i>738001-01</i>	
CHECK FOR MS/MD <input type="checkbox"/> This Sample		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Term _____ hrs		FLOW _____ MGD	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____					
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS					
PRIORITY POLLUTANTS (Water Part 138)—SPDES					
<input type="checkbox"/> 1. All (SPDES)—Includes 2-6		<input type="checkbox"/> 2. 13 PP Metals		<input type="checkbox"/> 3. Volatiles—USEPA 624 (GC/MS)	
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 625-GC/MS)		<input type="checkbox"/> 5. Cyanide		<input type="checkbox"/> 6. Pesticides/PDB's (USEPA 608-GC)	
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 601-GC)		<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 602-GC)		<input type="checkbox"/> 9. BOD	
<input type="checkbox"/> 10. pH		<input type="checkbox"/> 11. COD		<input type="checkbox"/> 12. TSS	
<input type="checkbox"/> 13. Settlesable Solids		<input type="checkbox"/> 14. TKN		<input type="checkbox"/> 15. Ammonia	
<input type="checkbox"/> 16. Nitrate/Nitrite		<input type="checkbox"/> 17. Total Phosphorus		<input type="checkbox"/> 18. Reactive Phosphorus	
<input type="checkbox"/> 19. Oil/Grease		<input type="checkbox"/> 20. TOC		<input type="checkbox"/> 21. Total Phenols	
<input type="checkbox"/> 22. Other _____		<input type="checkbox"/> 29. PCB's at 0.005 ug/l		<input type="checkbox"/> 30. PCB's congener method	
CONTRACT LABORATORY PROTOCOLS					
<input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 24-29		<input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34			
<input type="checkbox"/> 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS		<input type="checkbox"/> 30. B/N/A—Soil/Sediment—GC-MS			
<input type="checkbox"/> 25. Volatile Organic Analysis VOA—Water—GC-MS		<input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS			
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC		<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC			
<input type="checkbox"/> 27. Metals—Water		<input type="checkbox"/> 33. Metals—Soil/Sediment			
<input type="checkbox"/> 28. Cyanide—Water		<input type="checkbox"/> 34. Cyanide—Soil/Sediment			
<input type="checkbox"/> 35. Other _____					
HAZARDOUS WASTE/RCRA ANALYSIS SW-600					
<input type="checkbox"/> 36. EP Toxicity		<input type="checkbox"/> 37. EP Toxicity (Metals Only)		<input type="checkbox"/> 38. Ignitability	
<input type="checkbox"/> 39. Corrosivity		<input type="checkbox"/> 40. VOA—(USEPA 8240)		<input type="checkbox"/> 41. BNA—(USEPA 8270)	
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 8090)		<input type="checkbox"/> 43. TCLP		<input type="checkbox"/> 44. TCLP (Metals Only)	
<input type="checkbox"/> 45. Reactivity		<input type="checkbox"/> 46. Dioxin (USEPA 8280)		<input type="checkbox"/> 47. Appendix IX	
<input type="checkbox"/> 48. Other _____					
MUNICIPAL SLUDGE					
<input type="checkbox"/> 49. RSGB-01		<input type="checkbox"/> 51. RSRB-01		<input type="checkbox"/> 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)	
<input type="checkbox"/> 54. RSRO-01		<input type="checkbox"/> 57. RSRR-02		<input type="checkbox"/> 58. Other _____	
(If applicable) The contractor is expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).					

CONTRACT LAB SAMPLE INFORMATION SHEET

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CC# 301939

COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>518-457-5077</u>		REGION NO: <u>0</u>	
CONTRACT LAB: <u>Comp Chem</u>		COUNTY: <u>OSwego</u>		SAMPLING DATE: <u>4/13/89</u>	
SAMPLING POINT: <u>Monitoring Well LS9</u>		OUTFALL NUMBER: _____		CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>	
CASE NUMBER: <u>RA789</u>		SDG NUMBER: <u>317</u>		SAMPLE NUMBER: <u>738001-06</u>	
CHECK FOR MS/MD <input type="checkbox"/> This Sample		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Term _____ hrs		FLOW _____ MGD	
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____					
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS					
PRIORITY POLLUTANTS (Water Part 136)—SPOES					
<input type="checkbox"/> 1. All (SPOES)—Includes 2-6	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)			
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MG)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)			
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD			
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS			
<input type="checkbox"/> 13. Settleable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia			
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus			
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols			
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 23. PCB's at 0.085 ug/L	<input type="checkbox"/> 22. PCB's congener method			
CONTRACT LABORATORY PROTOCOLS					
<input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 24-28	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34				
<input type="checkbox"/> 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS	<input type="checkbox"/> 30. B/N/A—Soil/Sediment—GC-MS				
<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS				
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC				
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment				
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment				
<input type="checkbox"/> 35. Other _____	<input type="checkbox"/> 35. Other _____				
HAZARDOUS WASTES/RCRA ANALYSIS SW-846					
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability			
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824)	<input type="checkbox"/> 41. BNA—(USEPA 827)			
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)			
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 828)	<input type="checkbox"/> 47. Appendix IX			
<input type="checkbox"/> 48. Other _____					
MUNICIPAL SLUDGE					
<input type="checkbox"/> 49. RSGB-01	<input type="checkbox"/> 50. RSRR-01	<input type="checkbox"/> 51. RSRR-01	<input type="checkbox"/> 52. RSRR-01	<input type="checkbox"/> 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)	
<input type="checkbox"/> 54. RSRO-01	<input type="checkbox"/> 55. RSRR-01	<input type="checkbox"/> 56. RSRR-01	<input type="checkbox"/> 57. RSRR-02	<input type="checkbox"/> 58. Other _____	
CAUTION (check if applicable)					
<input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).					
Place QA Label Here					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

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107 30173

COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>518-457-5677</u>	REGION NO: <u>0</u>																								
CONTRACT NO: <u>Comp Chem</u>		COUNTY: <u>OSwego</u>	SAMPLING DATE: <u>1/13/89</u>																								
SAMPLING POINT: <u>Monitoring Well 259</u>		OUTFALL NUMBER: _____	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>																								
CASE NUMBER: <u>RA 789</u>		SDS NUMBER: <u>317</u>	SAMPLE NUMBER: <u>738001-06</u>																								
CHECK FOR MS/MD <input type="checkbox"/> This Sample		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Term _____ hrs																									
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____																											
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS																											
<p>PRIORITY POLLUTANTS (Water Part 136)—SPDES</p> <table border="0"> <tr> <td><input type="checkbox"/> 1. All (SPDES)—includes 2-6</td> <td><input type="checkbox"/> 2. 13 PP Metals</td> <td><input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)</td> </tr> <tr> <td><input type="checkbox"/> 4. Acids Base/Neutrals (USEPA 625-GC/MS)</td> <td><input type="checkbox"/> 5. Cyanide</td> <td><input type="checkbox"/> 6. Pesticides/PCB's (USEPA 608-GC)</td> </tr> <tr> <td><input type="checkbox"/> 7. Halogenated Volatiles (USEPA 601-GC)</td> <td><input type="checkbox"/> 8. Aromatic Volatiles (USEPA 602-GC)</td> <td><input type="checkbox"/> 9. BOD</td> </tr> <tr> <td><input type="checkbox"/> 10. pH</td> <td><input type="checkbox"/> 11. COD</td> <td><input type="checkbox"/> 12. TSS</td> </tr> <tr> <td><input type="checkbox"/> 13. Settleable Solids</td> <td><input type="checkbox"/> 14. TKN</td> <td><input type="checkbox"/> 15. Ammonia</td> </tr> <tr> <td><input type="checkbox"/> 16. Nitrate/Nitrite</td> <td><input type="checkbox"/> 17. Total Phosphorus</td> <td><input type="checkbox"/> 18. Reactive Phosphorus</td> </tr> <tr> <td><input type="checkbox"/> 19. Oil/Grease</td> <td><input type="checkbox"/> 20. TOC</td> <td><input type="checkbox"/> 21. Total Phenols</td> </tr> <tr> <td><input type="checkbox"/> 22. Other _____</td> <td><input type="checkbox"/> 23. PCB's at 0.005 ug/L</td> <td><input type="checkbox"/> 24. PCB's congener method</td> </tr> </table>				<input type="checkbox"/> 1. All (SPDES)—includes 2-6	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)	<input type="checkbox"/> 4. Acids Base/Neutrals (USEPA 625-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 608-GC)	<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 601-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 602-GC)	<input type="checkbox"/> 9. BOD	<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS	<input type="checkbox"/> 13. Settleable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia	<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus	<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols	<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 23. PCB's at 0.005 ug/L	<input type="checkbox"/> 24. PCB's congener method
<input type="checkbox"/> 1. All (SPDES)—includes 2-6	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)																									
<input type="checkbox"/> 4. Acids Base/Neutrals (USEPA 625-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 608-GC)																									
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 601-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 602-GC)	<input type="checkbox"/> 9. BOD																									
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS																									
<input type="checkbox"/> 13. Settleable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia																									
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus																									
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols																									
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 23. PCB's at 0.005 ug/L	<input type="checkbox"/> 24. PCB's congener method																									
<p>CONTRACT LABORATORY PROTOCOLS</p> <table border="0"> <tr> <td><input checked="" type="checkbox"/> 25. (ALL)—Water—includes 24-28</td> <td><input type="checkbox"/> 29. (ALL)—Soil/Sediments—includes 30-34</td> </tr> <tr> <td><input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS</td> <td><input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS</td> </tr> <tr> <td><input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS</td> <td><input type="checkbox"/> 31. VOA—Soil/Sediment—GC-MS</td> </tr> <tr> <td><input type="checkbox"/> 26. Pesticides/PCB's—Water—GC</td> <td><input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC</td> </tr> <tr> <td><input type="checkbox"/> 27. Metals—Water</td> <td><input type="checkbox"/> 33. Metals—Soil/Sediment</td> </tr> <tr> <td><input type="checkbox"/> 28. Cyanide—Water</td> <td><input type="checkbox"/> 34. Cyanide—Soil/Sediment</td> </tr> <tr> <td></td> <td><input type="checkbox"/> 35. Other _____</td> </tr> </table>				<input checked="" type="checkbox"/> 25. (ALL)—Water—includes 24-28	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—includes 30-34	<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS	<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediment—GC-MS	<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC	<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment	<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment		<input type="checkbox"/> 35. Other _____										
<input checked="" type="checkbox"/> 25. (ALL)—Water—includes 24-28	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—includes 30-34																										
<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS																										
<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediment—GC-MS																										
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC																										
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment																										
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment																										
	<input type="checkbox"/> 35. Other _____																										
<p>HAZARDOUS WASTE/RCRA ANALYSIS SW-846</p> <table border="0"> <tr> <td><input type="checkbox"/> 36. EP Toxicity</td> <td><input type="checkbox"/> 37. EP Toxicity (Metals Only)</td> <td><input type="checkbox"/> 38. Ignitability</td> </tr> <tr> <td><input type="checkbox"/> 39. Corrosivity</td> <td><input type="checkbox"/> 40. VOA—(USEPA 824)</td> <td><input type="checkbox"/> 41. BNA—(USEPA 627)</td> </tr> <tr> <td><input type="checkbox"/> 42. Pesticides/PCB's (USEPA 608)</td> <td><input type="checkbox"/> 43. TCLP</td> <td><input type="checkbox"/> 44. TCLP (Metals Only)</td> </tr> <tr> <td><input type="checkbox"/> 45. Reactivity</td> <td><input type="checkbox"/> 46. Dioxin (USEPA 828)</td> <td><input type="checkbox"/> 47. Appendix IX</td> </tr> <tr> <td><input type="checkbox"/> 48. Other _____</td> <td></td> <td></td> </tr> </table>				<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability	<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824)	<input type="checkbox"/> 41. BNA—(USEPA 627)	<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 608)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)	<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 828)	<input type="checkbox"/> 47. Appendix IX	<input type="checkbox"/> 48. Other _____											
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability																									
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824)	<input type="checkbox"/> 41. BNA—(USEPA 627)																									
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 608)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)																									
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 828)	<input type="checkbox"/> 47. Appendix IX																									
<input type="checkbox"/> 48. Other _____																											
<p>MUNICIPAL SLUDGE</p> <table border="0"> <tr> <td><input type="checkbox"/> 49. RSRR-01</td> <td><input type="checkbox"/> 52. RSRR-01</td> <td><input type="checkbox"/> 53. RSRR-01 (EP Toxicity-Metals only + RSRR-01)</td> </tr> <tr> <td><input type="checkbox"/> 54. RSRR-01</td> <td><input type="checkbox"/> 57. RSRR-02</td> <td><input type="checkbox"/> 58. Other _____</td> </tr> </table>				<input type="checkbox"/> 49. RSRR-01	<input type="checkbox"/> 52. RSRR-01	<input type="checkbox"/> 53. RSRR-01 (EP Toxicity-Metals only + RSRR-01)	<input type="checkbox"/> 54. RSRR-01	<input type="checkbox"/> 57. RSRR-02	<input type="checkbox"/> 58. Other _____																		
<input type="checkbox"/> 49. RSRR-01	<input type="checkbox"/> 52. RSRR-01	<input type="checkbox"/> 53. RSRR-01 (EP Toxicity-Metals only + RSRR-01)																									
<input type="checkbox"/> 54. RSRR-01	<input type="checkbox"/> 57. RSRR-02	<input type="checkbox"/> 58. Other _____																									
<p>Not applicable</p> <p>expected to use caution when handling DEC samples, however; please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>																											

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Page 2

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COLLECTED BY: <u>Robert J McNamee</u>		TELEPHONE NUMBER: <u>578 457 5677</u>		REGION NO: <u>0</u>
CONTRACT LINE: <u>Compa Chem</u>		COUNTY: <u>Oswego</u>	SAMPLING DATE: <u>11/1/89</u>	MILITARY TIME: <u>1635</u>
SAMPLING POINTS:			OUTFALL NUMBER:	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>
			SPDES NUMBER:	FLOW MGD:
CASE NUMBER: <u>RA 789</u>	SDG NUMBER: <u>318</u>	SAMPLE NUMBER: <u>738001-25</u>	CHECK FOR MS/MD: <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____				
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS				
PRIORITY POLLUTANTS (Water Part 136)—SPDES				
<input type="checkbox"/> 1. All (SPDES)—includes 2-6	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 624 (GC/MS)		
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 625-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)		
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD		
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS		
<input type="checkbox"/> 13. Suspended Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia		
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 16. Reactive Phosphorus		
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phosphate		
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 23. PCB's at 0.058 ug/L	<input type="checkbox"/> 23. PCB's congener methods		
CONTRACT LABORATORY PROTOCOLS				
<input checked="" type="checkbox"/> 23. (ALL)—Water—includes 24-28	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—includes 30-34			
<input type="checkbox"/> 24. Base/Neutrals/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS			
<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediment—GC-MS			
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC			
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment			
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment			
	<input type="checkbox"/> 35. Other _____			
HAZARDOUS WASTE/RCRA ANALYSIS SW-606				
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability		
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 826B)	<input type="checkbox"/> 41. BMA—(USEPA 827D)		
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 828B)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)		
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Diphenyl (USEPA 828D)	<input type="checkbox"/> 47. Appendix IX		
<input type="checkbox"/> 48. Other _____				
MUNICIPAL SLUDGE				
<input type="checkbox"/> 49. RSGE-01	<input type="checkbox"/> 52. RSRB-01	<input type="checkbox"/> 53. RSPB-01 (EP Toxicity-Metals only + RSRB-01)		
<input type="checkbox"/> 54. RSRQ-01	<input type="checkbox"/> 57. RSRB-02	<input type="checkbox"/> 58. Other _____		
<p>(Not applicable)</p> <p>expected to use caution when handling DEC samples; however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p> <p>Place QA Label Here</p>				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

FORM 4

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302182

COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>518 457 5677</u>	REGION NO: <u>0</u>
CONTRACT LAB: <u>Comdy Chem</u>	COUNTY: <u>Oswego</u>	SAMPLING DATE: <u>11/11/89</u>	MILITARY TIME: <u>1600</u>
SAMPLING POINT:		OUTFALL NUMBER:	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>
		SPDES NUMBER:	FLOW MGD:
CASE NUMBER: <u>RA 789</u>	SDG NUMBER: <u>318</u>	SAMPLE NUMBER: <u>738001-23</u>	CHECK FOR MS/MD: <input type="checkbox"/> This Sample
SAMPLE MATRIX:		TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs	
<input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136) — SPDES			
<input type="checkbox"/> 1. All (SPDES)—Includes 2-8	<input type="checkbox"/> 2. 13 PF Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)	
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)	
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD	
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS	
<input type="checkbox"/> 13. Settleable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia	
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus	
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenate	
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 22. PCB's at 0.085 ug/L	<input type="checkbox"/> 22. PCB's congener method	
CONTRACT LABORATORY PROTOCOLS			
<input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 24-38	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34		
<input type="checkbox"/> 24. Base/Nitrate/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS		
<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS		
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC		
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment		
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment		
	<input type="checkbox"/> 35. Other _____		
HAZARDOUS WASTE/PCRA ANALYSIS SW-846			
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability	
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824)	<input type="checkbox"/> 41. BMA—(USEPA 827)	
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)	
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 828)	<input type="checkbox"/> 47. Appendix IX	
<input type="checkbox"/> 48. Other _____			
MUNICIPAL SLUDGE			
<input type="checkbox"/> 49. RSG-01	<input type="checkbox"/> 51. RSP-01	<input type="checkbox"/> 52. RSP-01 (EP Toxicity-Metals only + RSRP-01)	
<input type="checkbox"/> 54. RSRP-01	<input type="checkbox"/> 57. RSRP-01	<input type="checkbox"/> 58. Other _____	
(Not applicable)			
You are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).			
Place QA Label Here			

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302175

COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>518 457 5677</u>		REGION NO: <u>0</u>
CONTRACT LAB: <u>Conrad Chem</u>		COUNTY: <u>OSWEGO</u>	SAMPLING DATE: <u>11/14/89</u>	MILITARY TIME: <u>0831</u>
SAMPLING POINT:			OUTFALL NUMBER	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>
			SPOES NUMBER	FLOW
				MGD
CASE NUMBER: <u>RA 789</u>	SDG NUMBER: <u>318</u>	SAMPLE NUMBER: <u>738001-14</u>	CHECK FOR MSMD: <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX:				
<input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____				
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS				
PRIORITY POLLUTANTS (Water Part 136)—SPOES				
<input type="checkbox"/> 1. AN (SPOES)—Includes 2-6 <input type="checkbox"/> 2. 13 PP Metals <input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)				
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS) <input type="checkbox"/> 5. Cyanide <input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)				
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 807-GC) <input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC) <input type="checkbox"/> 9. BOD				
<input type="checkbox"/> 10. pH <input type="checkbox"/> 11. COD <input type="checkbox"/> 12. TSS				
<input type="checkbox"/> 13. Settlingable Solids <input type="checkbox"/> 14. TKN <input type="checkbox"/> 15. Ammonia				
<input type="checkbox"/> 16. Nitrate/Nitrite <input type="checkbox"/> 17. Total Phosphorus <input type="checkbox"/> 18. Reactive Phosphorus				
<input type="checkbox"/> 19. Oil/Grease <input type="checkbox"/> 20. TOC <input type="checkbox"/> 21. Total Phenols				
<input type="checkbox"/> 22. Other _____ <input type="checkbox"/> 23. PCB's at 0.025 ug/L <input type="checkbox"/> 22. PCB's congener method				
CONTRACT LABORATORY PROTOCOLS				
<input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 24-28 <input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34				
<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS <input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS				
<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS <input type="checkbox"/> 31. VOA—Soil/Sediment—GC-MS				
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC <input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC				
<input type="checkbox"/> 27. Metals—Water <input type="checkbox"/> 33. Metals—Soil/Sediment				
<input type="checkbox"/> 28. Cyanide—Water <input type="checkbox"/> 34. Cyanide—Soil/Sediment				
<input type="checkbox"/> 35. Other _____ <input type="checkbox"/> 35. Other _____				
HAZARDOUS WASTES/RCRA ANALYSIS SW-846				
<input type="checkbox"/> 36. EP Toxicity <input type="checkbox"/> 37. EP Toxicity (Metals Only) <input type="checkbox"/> 38. Ignitability				
<input type="checkbox"/> 39. Corrosivity <input type="checkbox"/> 40. VOA—(USEPA 824) <input type="checkbox"/> 41. BNA—(USEPA 8270)				
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808) <input type="checkbox"/> 43. TCLP <input type="checkbox"/> 44. TCLP (Metals Only)				
<input type="checkbox"/> 45. Reactivity <input type="checkbox"/> 46. Bio/in (USEPA 8283) <input type="checkbox"/> 47. Appendix IX				
<input type="checkbox"/> 46. Other _____				
MUNICIPAL SLUDGE				
<input type="checkbox"/> 49. RSGS-01 <input type="checkbox"/> 52. RSPS-01 <input type="checkbox"/> 53. RSPS-01 (EP Toxicity-Metals only + RSR-01)				
<input type="checkbox"/> 54. RSRO-01 <input type="checkbox"/> 57. RSPS-02 <input type="checkbox"/> 58. Other _____				
(If applicable) Samples are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).				
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COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>58457877</u>		REGION NO: <u>0</u>
CONTRACT LAB: <u>Competition</u>		COUNTY: <u>OSWEGO</u>	SAMPLING DATE: <u>11/14/89</u>	MILITARY TIME: <u>0845</u>
SAMPLING POINT: _____			OUTFALL NUMBER _____	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>
			SPOES NUMBER _____	FLOW _____ MGD
CASE NUMBER: <u>RA 789</u>	SDG NUMBER: <u>318</u>	SAMPLE NUMBER: <u>738001-15</u>	CHECK FOR MS/MD: <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____				
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS				
PRIORITY POLLUTANTS (Water Part 138)—SPDES				
<input type="checkbox"/> 1. All (SPDES)—includes 3-5	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)		
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 625-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 605-GC)		
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 601-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 602-GC)	<input type="checkbox"/> 9. BOD		
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS		
<input type="checkbox"/> 13. Suspended Solids	<input type="checkbox"/> 14. TRN	<input type="checkbox"/> 13. Ammonia		
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus		
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 27. Total Phenols		
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 28. PCB's at 0.005 ug/l	<input type="checkbox"/> 60. PCB's congener method		
CONTRACT LABORATORY PROTOCOLS				
<input checked="" type="checkbox"/> 23. (ALL)—Water—includes 24-28	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—includes 30-34			
<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS			
<input type="checkbox"/> 25. Volatile Organic Analysis VOA—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS			
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC			
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment			
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment			
	<input type="checkbox"/> 35. Other _____			
HAZARDOUS WASTE/RCRA ANALYSIS SW-846				
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability		
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824)	<input type="checkbox"/> 41. BNA—(USEPA 827)		
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 605)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)		
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 880)	<input type="checkbox"/> 47. Appendix IX		
<input type="checkbox"/> 48. Other _____				
MUNICIPAL SLUDGE				
<input type="checkbox"/> 49. RSQB-01	<input type="checkbox"/> 52. RSRB-01	<input type="checkbox"/> 53. RSRB-01 (EP Toxicity-Metals only + RSRB-01)		
<input type="checkbox"/> 54. RSRG-01	<input type="checkbox"/> 57. RSRB-02	<input type="checkbox"/> 58. Other _____		
(Not applicable)				
<p>_____ expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p>				
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COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>518 457 5677</u>		REGION NO: <u>0</u>
CONTRACT LAB: <u>CompuChem</u>		COUNTY: <u>Oswego</u>	SAMPLING DATE: <u>11/14/89</u>	MILITARY TIME: <u>1000</u>
SAMPLING POINT:			OUTFALL NUMBER	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>
			SPOES NUMBER	FLOW MGD
CASE NUMBER: <u>RA-789</u>	SDG NUMBER: <u>310</u>	SAMPLE NUMBER: <u>738001-16</u>	CHECK FOR MS/MD <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____				
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS				
PRIORITY POLLUTANTS (Water Part 136)—SPOES <input type="checkbox"/> 1. All (SPOES)—Includes 2-8 <input type="checkbox"/> 2. 13 PP Metals <input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS) <input type="checkbox"/> 4. Acids/Bases/Nitrates (USEPA 825-GC/MS) <input type="checkbox"/> 5. Cyanide <input type="checkbox"/> 6. Pesticides/PCB's (USEPA 608-GC) <input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC) <input type="checkbox"/> 8. Aromatic Volatiles (USEPA 603-GC) <input type="checkbox"/> 9. BOD <input type="checkbox"/> 10. pH <input type="checkbox"/> 11. COD <input type="checkbox"/> 12. TSS <input type="checkbox"/> 13. Benthic Solids <input type="checkbox"/> 14. TKN <input type="checkbox"/> 15. Ammonia <input type="checkbox"/> 16. Nitrate/Nitrite <input type="checkbox"/> 17. Total Phosphorus <input type="checkbox"/> 18. Reactive Phosphorus <input type="checkbox"/> 19. Oil/Grease <input type="checkbox"/> 20. TOC <input type="checkbox"/> 21. Total Phenois <input type="checkbox"/> 22. Other _____ <input type="checkbox"/> 23. PCB's at 0.085 ug/l <input type="checkbox"/> 24. PCB's congener method				
CONTRACT LABORATORY PROTOCOLS <input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 2-8 <input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS <input type="checkbox"/> 25. Volatile Organic Analysis VOA—Water—GC-MS <input type="checkbox"/> 26. Pesticides/PCB's—Water—GC <input type="checkbox"/> 27. Metals—Water <input type="checkbox"/> 28. Cyanide—Water <input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34 <input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS <input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS <input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC <input type="checkbox"/> 33. Metals—Soil/Sediment <input type="checkbox"/> 34. Cyanide—Soil/Sediment <input type="checkbox"/> 35. Other _____				
HAZARDOUS WASTES/RCRA ANALYSIS SW-846 <input type="checkbox"/> 36. EP Toxicity <input type="checkbox"/> 37. EP Toxicity (Metals Only) <input type="checkbox"/> 38. Ignitability <input type="checkbox"/> 39. Corrosivity <input type="checkbox"/> 40. VOA—(USEPA 8240) <input type="checkbox"/> 41. BNA—(USEPA 8270) <input type="checkbox"/> 42. Pesticides/PCB's (USEPA 608) <input type="checkbox"/> 43. TCLP <input type="checkbox"/> 44. TCLP (Metals Only) <input type="checkbox"/> 45. Reactivity <input type="checkbox"/> 46. Dioxin (USEPA 8295) <input type="checkbox"/> 47. Appendix IX <input type="checkbox"/> 48. Other _____				
MUNICIPAL SLUDGE <input type="checkbox"/> 49. RSGB-01 <input type="checkbox"/> 50. RSRB-01 <input type="checkbox"/> 51. RSRB-02 <input type="checkbox"/> 52. RSR-01 (EP Toxicity-Metals only + RSRB-01) <input type="checkbox"/> 53. RSR-02 <input type="checkbox"/> 54. Other _____				
<p>(Not applicable)</p> <p>_____ expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p> <p>Place QA Label Here</p>				

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COLLECTED BY: <u>Robert J McNamee</u>		TELEPHONE NUMBER: <u>578 457 8777</u>		REGION NO: <u>0</u>
CONTRACT LAB: <u>Comon Chem</u>		COUNTY: <u>Oswego</u>	SAMPLING DATE: <u>11/1/89</u>	MILITARY TIME: <u>16:20</u>
SAMPLING POINT:			OUTFALL NUMBER	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>
			SPDES NUMBER	FLOW
			MGD	
CASE NUMBER: <u>RA 789</u>	SDG NUMBER: <u>318</u>	SAMPLE NUMBER: <u>738001-24</u>	CHECK FOR MS/MD <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____				
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS				
PRIORITY POLLUTANTS (Water Part 136)—SPDES				
<input type="checkbox"/> 1. All (SPDES)—Includes 2-d	<input type="checkbox"/> 2. 15 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)		
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)		
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 803-GC)	<input type="checkbox"/> 9. BOD		
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS		
<input type="checkbox"/> 13. Settleable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia		
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus		
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols		
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 22. PCB's at 0.085 ug/L	<input type="checkbox"/> 22. PCB's congener method		
CONTRACT LABORATORY PROTOCOLS				
<input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 24-28	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34			
<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS			
<input type="checkbox"/> 25. Volatile Organic Analysis VOA—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS			
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC			
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment			
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment			
	<input type="checkbox"/> 35. Other _____			
HAZARDOUS WASTES/RCRA ANALYSIS SW-846				
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Soluble Only)	<input type="checkbox"/> 38. Ignitability		
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824)	<input type="checkbox"/> 41. BNA—(USEPA 827)		
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)		
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 828)	<input type="checkbox"/> 47. Appendix IX		
<input type="checkbox"/> 48. Other _____				
MUNICIPAL SLUDGE				
<input type="checkbox"/> 49. RSGS-01	<input type="checkbox"/> 52. RSPR-01	<input type="checkbox"/> 53. RSPR-01 (EP Toxicity-Metals only + RSRR-01)		
<input type="checkbox"/> 54. RSPR-02	<input type="checkbox"/> 57. RSPR-02	<input type="checkbox"/> 58. Other _____		
<p>(Applicable)</p> <p>expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p> <p>Place QA Label Here</p>				

CONTRACT LAB SAMPLE INFORMATION SHEET

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3021166

COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>518 457 5677</u>		REGION NO: <u>0</u>
CONTRACT # <u>Amoa Echem</u>		COUNTY: <u>Oswego</u>	SAMPLING DATE:	MILITARY TIME:
SAMPLING POINT:			OUTFALL NUMBER	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>
			SPDES NUMBER	FLOW
				MGO
CASE NUMBER <u>RA 789</u>	SDG NUMBER <u>318</u>	SAMPLE NUMBER <u>738001-26</u>	CHECK FOR MG/MO <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____				
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS				
PRIORITY POLLUTANTS (Water Part 136)—SPDES				
<input type="checkbox"/> 1. All (SPDES)—Includes 2-6	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)		
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 625-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 806-GC)		
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD		
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS		
<input type="checkbox"/> 13. Bettleable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia		
<input type="checkbox"/> 16. Nitros/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus		
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols		
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 29. PCB's at 0.085 ug/L	<input type="checkbox"/> 30. PCB's congener method		
CONTRACT LABORATORY PROTOCOLS				
<input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 24-28	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34			
<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS			
<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS			
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC			
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment			
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment			
	<input type="checkbox"/> 35. Other _____			
HAZARDOUS WASTES/RCRA ANALYSIS SW-846				
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability		
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824)	<input type="checkbox"/> 41. BNA—(USEPA 827)		
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 806)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)		
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 828)	<input type="checkbox"/> 47. Appendix IX		
<input type="checkbox"/> 48. Other _____				
MUNICIPAL SLUDGE				
<input type="checkbox"/> 49. RSGS-01	<input type="checkbox"/> 52. RSGS-01	<input type="checkbox"/> 53. RSGS-01 (EP Toxicity-Metals only + RRRR-01)		
<input type="checkbox"/> 54. RSRD-01	<input type="checkbox"/> 57. RSRD-02	<input type="checkbox"/> 58. Other _____		
<p>(Not applicable)</p> <p>expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p> <p>Place QA Label Here</p>				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

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302172

COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>518 457 5677</u>		REGION NO: <u>0</u>
CONTRACT LAB: <u>Compu Chem</u>		COUNTY: <u>OSWEGO</u>	SAMPLING DATE: <u>11/14/89</u>	MILITARY TIME: <u>1050</u>
SAMPLING POINT:		OUTFALL NUMBER	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>	
		SPDES NUMBER	FLOW	MGD
CASE NUMBER: <u>RA-789</u>	SDG NUMBER: <u>318</u>	SAMPLE NUMBER: <u>738001-17</u>	CHECK FOR MS/MD: <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input checked="" type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify): _____				
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS				
PRIORITY POLLUTANTS (Water Part 136)—SPDES				
<input type="checkbox"/> 1. All (SPDES)—includes 2-6	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)		
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)		
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD		
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS		
<input type="checkbox"/> 13. Settleable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia		
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus		
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols		
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 23. PCB's at 0.005 ug/L	<input type="checkbox"/> 24. PCB's congener method		
CONTRACT LABORATORY PROTOCOLS				
<input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 24-33	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34			
<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS			
<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS			
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC			
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment			
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment			
	<input type="checkbox"/> 35. Other _____			
HAZARDOUS WASTES/RCRA ANALYSIS (SW-600)				
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability		
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824)	<input type="checkbox"/> 41. BNA—(USEPA 827)		
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)		
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 828)	<input type="checkbox"/> 47. Appendix IX		
<input type="checkbox"/> 48. Other _____				
MUNICIPAL SOLID WASTE				
<input type="checkbox"/> 49. RSRB-01	<input type="checkbox"/> 53. RSRB-01	<input type="checkbox"/> 53. RSRB-01 (EP Toxicity-Metals only + RSRB-01)		
<input type="checkbox"/> 54. RSRB-02	<input type="checkbox"/> 54. RSRB-02	<input type="checkbox"/> 54. Other _____		
(Not applicable)				
<input type="checkbox"/> Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).				
Place DA Label Here				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

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302168

COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>518 457 9677</u>		REGION NO. <u>0</u>
CONTRACT LAB: <u>CompuChem</u>		COUNTY: <u>Oswego</u>	SAMPLING DATE: <u>11/14/89</u>	MILITARY TIME: <u>1300</u>
SAMPLING POINT:		OUTFALL NUMBER	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>	
		SPDES NUMBER	FLOW MGD	
CASE NUMBER: <u>RA 789</u>	SDG NUMBER: <u>318</u>	SAMPLE NUMBER: <u>738001-21</u>	CHECK FOR MS/MD <input type="checkbox"/> This Sample	TYPE OF SAMPLE: <input type="checkbox"/> Composite <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____				
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS				
PRIORITY POLLUTANTS (Water Part 136)—SPDES				
<input type="checkbox"/> 1. All (SPDES)—includes 2-8	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)		
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)		
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD		
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS		
<input type="checkbox"/> 13. Settleable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia		
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus		
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols		
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 23. PCB's at 0.005 ug/l	<input type="checkbox"/> 24. PCB's congener method		
CONTRACT LABORATORY PROTOCOLS				
<input checked="" type="checkbox"/> 23. (ALL)—Water—includes 24-28	<input type="checkbox"/> 29. (ALL)—Soil/Sediments—includes 30-34			
<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS			
<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediment—GC-MS			
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC			
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment			
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment			
	<input type="checkbox"/> 35. Other _____			
HAZARDOUS WASTES/RCRA ANALYSIS 39-448				
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability		
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824)	<input type="checkbox"/> 41. BNA—(USEPA 8270)		
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)		
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 8280)	<input type="checkbox"/> 47. Appendix IX		
<input type="checkbox"/> 48. Other _____				
MUNICIPAL SLUDGE				
<input type="checkbox"/> 49. RSGS-01	<input type="checkbox"/> 55. RSPS-01	<input type="checkbox"/> 56. RSPS-01 (EP Toxicity-Metals only + RSPS-01)		
<input type="checkbox"/> 50. RSPS-02	<input type="checkbox"/> 57. RSPS-02	<input type="checkbox"/> 58. Other _____		
(applicable) Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s). Place QA Label Here				

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CONTRACT LAB SAMPLE INFORMATION SHEET

PART 2

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302155

COLLECTED BY: <u>Robert J. McNamara</u>		TELEPHONE NUMBER: <u>518 457 5677</u>	REGION NO: <u>0</u>
CONTRACT LAB: <u>Comar Chem</u>		COUNTY: <u>OSWEGO</u>	SAMPLING DATE: <u>11/14/89</u> MILITARY TIME: <u>1410</u>
SAMPLING POINT:		OUTFALL NUMBER:	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>
		SPDES NUMBER:	FLOW MGD:
CASE NUMBER: <u>RA 789</u>	SDG NUMBER: <u>318</u>	SAMPLE NUMBER: <u>738001-22</u>	CHECK FOR MS/MD: <input type="checkbox"/> This Sample
SAMPLE MATRIX:		TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Term _____ hrs	
<input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136)—SPDES			
<input type="checkbox"/> 1. All (SPDES)—includes 2-6	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)	
<input type="checkbox"/> 4. Acids/Basic/Neutral/Acid (B/N/A)—(USEPA 625-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 806-GC)	
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 801-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD	
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS	
<input type="checkbox"/> 13. Suspended Solids	<input type="checkbox"/> 14. TKH	<input type="checkbox"/> 15. Ammonia	
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus	
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols	
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 29. PCB's at 0.005 ug/L	<input type="checkbox"/> 30. PCB's congener method	
CONTRACT LABORATORY PROTOCOLS			
<input checked="" type="checkbox"/> 23. (ALL)—Water—includes 24-26	<input type="checkbox"/> 29. (ALL)—Soil/Sediment—includes 30-34		
<input type="checkbox"/> 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS	<input type="checkbox"/> 30. B/N/A—Soil/Sediment—GC-MS		
<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediment—GC-MS		
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC		
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment		
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment		
	<input type="checkbox"/> 35. Other _____		
HAZARDOUS WASTES/RCRA ANALYSIS SW-846			
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability	
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824)	<input type="checkbox"/> 41. BNA—(USEPA 827)	
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 806)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)	
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 828)	<input type="checkbox"/> 47. Appendix IX	
<input type="checkbox"/> 48. Other _____			
MUNICIPAL SLUDGE			
<input type="checkbox"/> 49. RSGE-01	<input type="checkbox"/> 52. RSPR-01	<input type="checkbox"/> 53. RSPR-01 (EP Toxicity—Metals only + RSPR-01)	
<input type="checkbox"/> 54. RSR-01	<input type="checkbox"/> 57. RSPR-02	<input type="checkbox"/> 58. Other _____	
<p>(Not applicable)</p> <p>It is expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).</p> <p>Place QA Label Here</p>			

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COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>518 457 5677</u>		REGION NO: <u>0</u>
CONTRACT LAB: <u>Cornell Chem</u>		COUNTY: <u>Oswego</u>	SAMPLING DATE: <u>11/14/89</u>	MILITARY TIME: <u>1820</u>
SAMPLING POINT:			OUTFALL NUMBER	CHECK IF SAMPLING IS PART OF INSPECTION <input type="checkbox"/>
			SPDES NUMBER	FLOW MGD
CASE NUMBER: <u>RA-789</u>	SDG NUMBER: <u>318</u>	SAMPLE NUMBER: <u>738001-13</u>	CHECK FOR MS/MD: <input checked="" type="checkbox"/> This Sample	TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____				
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS				
PRIORITY POLLUTANTS (Water Part 136)—SPDES				
<input type="checkbox"/> 1. All (BPDES)—includes 2-6	<input type="checkbox"/> 2. 13 PP Metals	<input type="checkbox"/> 3. Volatiles—USEPA 824 (GC/MS)		
<input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)	<input type="checkbox"/> 5. Cyanide	<input type="checkbox"/> 6. Pesticides/PCB's (USEPA 808-GC)		
<input type="checkbox"/> 7. Halogenated Volatiles (USEPA 807-GC)	<input type="checkbox"/> 8. Aromatic Volatiles (USEPA 802-GC)	<input type="checkbox"/> 9. BOD		
<input type="checkbox"/> 10. pH	<input type="checkbox"/> 11. COD	<input type="checkbox"/> 12. TSS		
<input type="checkbox"/> 13. Settleable Solids	<input type="checkbox"/> 14. TKN	<input type="checkbox"/> 15. Ammonia		
<input type="checkbox"/> 16. Nitrate/Nitrite	<input type="checkbox"/> 17. Total Phosphorus	<input type="checkbox"/> 18. Reactive Phosphorus		
<input type="checkbox"/> 19. Oil/Grease	<input type="checkbox"/> 20. TOC	<input type="checkbox"/> 21. Total Phenols		
<input type="checkbox"/> 22. Other _____	<input type="checkbox"/> 29. PCB's at 0.085 ug/L	<input type="checkbox"/> 30. PCB's congener method		
CONTRACT LABORATORY PROTOCOLS				
<input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 24-28	<input type="checkbox"/> 25. (ALL)—Soil/Sediments—Includes 30-34			
<input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS	<input type="checkbox"/> 30. BNA—Soil/Sediment—GC-MS			
<input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS	<input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS			
<input type="checkbox"/> 26. Pesticides/PCB's—Water—GC	<input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC			
<input type="checkbox"/> 27. Metals—Water	<input type="checkbox"/> 33. Metals—Soil/Sediment			
<input type="checkbox"/> 28. Cyanide—Water	<input type="checkbox"/> 34. Cyanide—Soil/Sediment			
	<input type="checkbox"/> 35. Other _____			
HAZARDOUS WASTE/RCRA ANALYSIS SW-846				
<input type="checkbox"/> 36. EP Toxicity	<input type="checkbox"/> 37. EP Toxicity (Metals Only)	<input type="checkbox"/> 38. Ignitability		
<input type="checkbox"/> 39. Corrosivity	<input type="checkbox"/> 40. VOA—(USEPA 824)	<input type="checkbox"/> 41. BNA—(USEPA 827)		
<input type="checkbox"/> 42. Pesticides/PCB's (USEPA 808)	<input type="checkbox"/> 43. TCLP	<input type="checkbox"/> 44. TCLP (Metals Only)		
<input type="checkbox"/> 45. Reactivity	<input type="checkbox"/> 46. Dioxin (USEPA 828)	<input type="checkbox"/> 47. Appendix IX		
<input type="checkbox"/> 48. Other _____				
MUNICIPAL SLUDGE				
<input type="checkbox"/> 49. RSGB-01	<input type="checkbox"/> 50. RSGB-01	<input type="checkbox"/> 51. RSP-01 (EP Toxicity-Metals only + RRR-01)		
<input type="checkbox"/> 52. RSP-02	<input type="checkbox"/> 53. RSP-02	<input type="checkbox"/> 54. Other _____		
(If applicable) The sample is expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s). Place QA Label Here				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

302173

COLLECTED BY: <u>Robert J. McNamee</u>		TELEPHONE NUMBER: <u>984575677</u>	REGION NO: <u>0</u>
CONTRACT LAB: <u>Compu Chem</u>		COUNTY: <u>Oswego</u>	SAMPLING DATE: <u>11/14/89</u>
MILITARY TIME: <u>1230</u>		CHECK IF SAMPLING IS PART OF INSPECTION: <input type="checkbox"/>	
SAMPLING POINT:		OUTFALL NUMBER:	FLOW MGD:
SPECS NUMBER:		CHECK FOR MS/MD: <input type="checkbox"/> This Sample	
CASE NUMBER: <u>RA-789</u>	SQG NUMBER: <u>310</u>	SAMPLE NUMBER: <u>738001-18</u>	TYPE OF SAMPLE: <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite <input type="checkbox"/> Term _____ hrs
SAMPLE MATRIX: <input type="checkbox"/> Air <input type="checkbox"/> Soil/Sediment <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Other (Specify) _____			
CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS			
PRIORITY POLLUTANTS (Water Part 136)—SPDES <input type="checkbox"/> 1. All (SPDES)—Includes 2-8 <input type="checkbox"/> 2. 13 PP Metals <input type="checkbox"/> 3. Volatiles—USEPA 624 (GC/MS) <input type="checkbox"/> 4. Acids/Bases/Neutrals (USEPA 625-GC/MS) <input type="checkbox"/> 5. Cyanide <input type="checkbox"/> 6. Pesticides/PCB's (USEPA 608-GC) <input type="checkbox"/> 7. Halogenated Volatiles (USEPA 607-GC) <input type="checkbox"/> 6. Aromatic Volatiles (USEPA 622-GC) <input type="checkbox"/> 9. BOD <input type="checkbox"/> 10. pH <input type="checkbox"/> 11. COD <input type="checkbox"/> 12. TSS <input type="checkbox"/> 13. Settlesble Solids <input type="checkbox"/> 14. TKN <input type="checkbox"/> 15. Ammonia <input type="checkbox"/> 16. Nitrate/Nitrite <input type="checkbox"/> 17. Total Phosphorus <input type="checkbox"/> 16. Reactive Phosphorus <input type="checkbox"/> 19. Oil/Grease <input type="checkbox"/> 20. TOC <input type="checkbox"/> 21. Total Phospha <input type="checkbox"/> 22. Other _____ <input type="checkbox"/> 20. PCB's at 0.005 ug/L <input type="checkbox"/> 20. PCB's congener method			
CONTRACT LABORATORY PROTOCOLS <input checked="" type="checkbox"/> 23. (ALL)—Water—Includes 24-28 <input type="checkbox"/> 24. Base/Neutral/Acid (BNA)—Water—GC-MS <input type="checkbox"/> 25. Volatile Organic Analysis (VOA)—Water—GC-MS <input type="checkbox"/> 26. Pesticides/PCB's—Water—GC <input type="checkbox"/> 27. Metals—Water <input type="checkbox"/> 28. Cyanide—Water <input type="checkbox"/> 29. (ALL)—Soil/Sediments—Includes 30-34 <input type="checkbox"/> 30. BNA/—Soil/Sediment—GC-MS <input type="checkbox"/> 31. VOA—Soil/Sediments—GC-MS <input type="checkbox"/> 32. Pesticides/PCB's—Soil/Sediment—GC <input type="checkbox"/> 33. Metals—Soil/Sediment <input type="checkbox"/> 34. Cyanide—Soil/Sediment <input type="checkbox"/> 35. Other _____			
HAZARDOUS WASTES/PCRA ANALYSIS SW-846 <input type="checkbox"/> 36. EP Toxicity <input type="checkbox"/> 37. EP Toxicity (Metals Only) <input type="checkbox"/> 38. Ignitability <input type="checkbox"/> 39. Corrosivity <input type="checkbox"/> 40. VOA—(USEPA 624) <input type="checkbox"/> 41. BNA—(USEPA 627) <input type="checkbox"/> 42. Pesticides/PCB's (USEPA 608) <input type="checkbox"/> 43. TCLP <input type="checkbox"/> 44. TCLP (Metals Only) <input type="checkbox"/> 45. Reactivity <input type="checkbox"/> 46. Dioxin (USEPA 638) <input type="checkbox"/> 47. Appendix IX <input type="checkbox"/> 48. Other _____			
MUNICIPAL SLUDGE <input type="checkbox"/> 49. RSGS-01 <input type="checkbox"/> 50. RSGS-02 <input type="checkbox"/> 51. RSPB-01 <input type="checkbox"/> 52. RSPB-01 (EP Toxicity-Metals only + RSPB-01) <input type="checkbox"/> 53. RSPB-02 <input type="checkbox"/> 54. Other _____			
(If not applicable) If this sample is expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s). Place QA Label Here			

CHAIN-OF-CUSTODY RECORD

№ 002487

PROJECT NAME:		PROJECT NUMBER:		SAMPLERS (SIGNATURE)		#	GC/MS	GC	INORGANICS	OTHER	MATRIX: Water/Soil	SAMPLING INFO	REMARKS				
		738001		 PRINTED NAME: Robert J. McNamee CLIENT ID (9 CHARACTERS)							DATE TIME						
1	2	3	4	5	6	7	8	9									
						8						11/11/89 1000	302189 Trip blank 302195 Advarding system: Job File 738001-23 RECEIVED IN 9/11/89 GOOD CONDITION				
RECEIVED BY: COMPANY NAME: <i>Admiral Express</i>						No. of Bottles/Vials 624-8240 625-8270 TCL-VOA TCL-SVOA Other: 601-8010 602-8020 608-8080 8140 TCL PEST/PCB's Herbicides Other: Metals Cyanide TAL Metals Other: TOC TOX Oil & Grease Pet. Hydro. Phenols						RECEIVED BY: COMPANY NAME: <i>parturidie computer</i>		RECEIVED BY: COMPANY NAME: <i>parturidie computer</i>		SHIPPING INFORMATION Number of Shipping Containers: Method of Shipment: Special Handling Requirements:	
RELINQUISHED BY: COMPANY NAME: <i>Admiral Express</i>						RECEIVED BY: COMPANY NAME: <i>parturidie computer</i>						DATE: 11/15/89 TIME: 0830		SHIPPING INFORMATION Number of Shipping Containers: Method of Shipment: Special Handling Requirements:			
RELINQUISHED BY: COMPANY NAME: <i>Admiral Express</i>						RECEIVED BY: COMPANY NAME: <i>parturidie computer</i>						DATE: 11/11/89		SHIPPING INFORMATION Number of Shipping Containers: Method of Shipment: Special Handling Requirements:			

CHAIN-OF-CUSTODY RECORD

N^o 001686

PROJECT NAME:		PROJECT NUMBER:		SAMPLERS/SIGNATURE:		PRINTED NAME:		CLIENT ID (9 CHARACTERS):		#	GC/MS	GC	INORGANICS	OTHER	MATRIX: Water/Soil	SAMPLING INFO	REMARKS
		73801		<i>[Signature]</i>		Robert J. McNamee		73800120									
RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:	
<i>[Signature]</i>		11/18/89		<i>[Signature]</i>		11/19/89		<i>[Signature]</i>		0830		<i>[Signature]</i>		0830		<i>[Signature]</i>	
COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:	
Federal Express				Compu Chem				Compu Chem				Compu Chem				Compu Chem	
REINQUISHED BY:		DATE/TIME:		REINQUISHED BY:		DATE/TIME:		REINQUISHED BY:		DATE/TIME:		REINQUISHED BY:		DATE/TIME:		REINQUISHED BY:	
1	2	3	4	5	6	7	8	9									
73800115	73800120																
<p>Ad used in system:</p> <p>738001-15 738001-20</p> <p>RECEIVED IN P.L. 15-89</p> <p>GOOD CONDITION</p>										<p>DATE: 11/18/89</p> <p>TIME: 0815</p>							

CHAIN-OF-CUSTODY RECORD

№ 002486

PROJECT NAME:		#		GC/MS		GC		INORGANICS		OTHER		SAMPLING INFO		REMARKS				
PROJECT NUMBER: 73801		No. of Bottles/Vials		624-8240		625-8270		TCL-VOA		TCL-SVOA		Other:		601-8010				
SAMPLERS (SIGNATURE)		602-8020		608-8080		B140		TCL PEST/PCB's		Herbicides		Other:		Metals				
 PRINTED NAME: Robert J. McNamee		601-8010		602-8020		608-8080		B140		TCL PEST/PCB's		Herbicides		Other:				
		601-8010		602-8020		608-8080		B140		TCL PEST/PCB's		Herbicides		Other:				
CLIENT ID (9 CHARACTERS)		601-8010		602-8020		608-8080		B140		TCL PEST/PCB's		Herbicides		Other:				
1		2		3		4		5		6		7		8				
2		3		4		5		6		7		8		9				
7		3		8		0		0		1		2		1				
7		3		8		0		0		1		2		2				
REINQUISHED BY: [Signature]		Date/Time: 11/14/89		RECEIVED BY: [Signature]		Date/Time: 11/15/89		REINQUISHED BY: [Signature]		Date/Time: 0830		RECEIVED BY: [Signature]		Date/Time: 11/15/89				
COMPANY NAME: [Signature]		COMPANY NAME: NY 526C		COMPANY NAME: [Signature]		COMPANY NAME: Empu Chem		COMPANY NAME: [Signature]		COMPANY NAME: 0830		COMPANY NAME: [Signature]		COMPANY NAME: 11/15/89				
REINQUISHED BY: [Signature]		Date/Time: [Signature]		RECEIVED BY: [Signature]		Date/Time: [Signature]		REINQUISHED BY: [Signature]		Date/Time: [Signature]		RECEIVED BY: [Signature]		Date/Time: [Signature]				
COMPANY NAME: [Signature]		COMPANY NAME: [Signature]		COMPANY NAME: [Signature]		COMPANY NAME: [Signature]		COMPANY NAME: [Signature]		COMPANY NAME: [Signature]		COMPANY NAME: [Signature]		COMPANY NAME: [Signature]				
SHIPPING INFORMATION Number of Shipping Containers: _____ Method of Shipment: _____ Special Handling Requirements: _____													MATRIX: Water/Soil DATE: 11/14/89 TIME: 11:35 302155			RECEIVED IN GOOD CONDITION 73801-21 73801-22 RECEIVED IN GOOD CONDITION 11/15/89		

CHAIN-OF-CUSTODY RECORD

N2 002438

PROJECT NAME		PROJECT NUMBER		SAMPLERS SIGNATURE		PRINTED NAME		CLIENT ID (9 CHARACTERS)		#	GC/MS	GC	INORGANICS	OTHER	MATRIX: Water/Soil	SAMPLING INFO	REMARKS		
		73801		<i>[Signature]</i>		Robert J. McNamee		73800116								DATE 11/15/89	TIME 1000		
RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 11/14/89		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 11/15/89		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 0630		RECEIVED BY: <i>[Signature]</i>		DATE/TIME:		DATE/TIME:		SHIPPING INFORMATION	
COMPANY NAME: <i>[Signature]</i>		COMPANY NAME:		COMPANY NAME: <i>[Signature]</i>		COMPANY NAME: <i>[Signature]</i>		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		Special Handling Requirements	
RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 11/14/89		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 11/15/89		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 0630		RECEIVED BY: <i>[Signature]</i>		DATE/TIME:		DATE/TIME:		SHIPPING INFORMATION	
COMPANY NAME: <i>[Signature]</i>		COMPANY NAME:		COMPANY NAME: <i>[Signature]</i>		COMPANY NAME: <i>[Signature]</i>		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		Special Handling Requirements	
RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 11/14/89		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 11/15/89		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 0630		RECEIVED BY: <i>[Signature]</i>		DATE/TIME:		DATE/TIME:		SHIPPING INFORMATION	
COMPANY NAME: <i>[Signature]</i>		COMPANY NAME:		COMPANY NAME: <i>[Signature]</i>		COMPANY NAME: <i>[Signature]</i>		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		Special Handling Requirements	
RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 11/14/89		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 11/15/89		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 0630		RECEIVED BY: <i>[Signature]</i>		DATE/TIME:		DATE/TIME:		SHIPPING INFORMATION	
COMPANY NAME: <i>[Signature]</i>		COMPANY NAME:		COMPANY NAME: <i>[Signature]</i>		COMPANY NAME: <i>[Signature]</i>		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		Special Handling Requirements	

All used in systems:
738001-16
RECEIVED IN GOOD CONDITION
11/15/89

CHAIN-OF-CUSTODY RECORD

N^o 001157

PROJECT NAME:										PROJECT NUMBER: 738001										
SAMPLERS (SIGNATURE):										<i>Robert V. McDevane</i>										
PRINTED NAME:										Robert V. McDevane										
CLIENT ID (9 CHARACTERS):																				
1	2	3	4	5	6	7	8	9		No. of Bottles/Vials										
										624-8240										
										625-8270										
										TCL-VOA										
										TCL-SVOA										
										Other:										
										601-8010										
										602-8020										
										608-8080										
										8140										
										TCL PEST/PCB's										
										Herbicides										
										Other:										
										Metals										
										Cyanide										
										TAL Metals										
										Other:										
										TOC										
										TOX										
										Oil & Grease										
										Pet Hydro.										
										Phenols										
										MATRIX: Water/Soil										

*All water systems:
738001-13
RECEIVED IN 11-15-89
GOOD CONDITION*

SHIPPING INFORMATION
Number of Shipping Containers:
Method of Shipment

Special Handling Requirements

CHAIN-OF-CUSTODY RECORD

№ 002430

PROJECT NAME:		PROJECT NUMBER:		SAMPLERS (SIGNATURE)		PRINTED NAME		CLIENT ID (9 CHARACTERS)		No. of Bottles/Vials		GC/MS		GC		INORGANICS		OTHER		MATRIX: Water/Soil		SAMPLING INFO		REMARKS									
RECEIVED BY:		DATE/TIME:		COMPANY NAME:		RECEIVED BY:		DATE/TIME:		COMPANY NAME:		RECEIVED BY:		DATE/TIME:		COMPANY NAME:		RECEIVED BY:		DATE/TIME:		COMPANY NAME:		RECEIVED BY:		DATE/TIME:		COMPANY NAME:					
1		2		3		4		5		6		7		8		9																	
738001		24		8		23		21		W		382176														RECEIVED IN 21 GOOD CONDITION Add working systems: 738001-24							
RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME: RECEIVED BY: COMPANY NAME:	

CHAIN-OF-CUSTODY RECORD

№ 002437

PROJECT NAME:		PROJECT NUMBER:		SAMPLERS SIGNATURE:		PRINTED NAME:		CLIENT ID (9 CHARACTERS)		#	GC/MS	GC	INORGANICS	OTHER	MATRIX: Water/Soil	DATE	TIME	REMARKS
		738001		<i>[Signature]</i>		Robert J. McNamee		13800113		8	624-8240 625-8270 TCL-VOA TCL-SVOA Other: 601-8010 602-8020 608-8080 8140 TCL PEST/PCB's Herbicides Other: Metals Cyanide TAL Metals Other: TOC TOX Oil & Grease Pet. Hydro. Phenols					11/14/89	0820	302194 Trip blank 302195
RELINQUISHED BY:		Date/Time:		RECEIVED BY:		Date/Time:		No. of Bottles/Vials										
<i>[Signature]</i>		11/14/89		<i>[Signature]</i>		11/15/89		8										
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:												
Feldman Press				Compu Chem		C820												
RELINQUISHED BY:		Date/Time:		RECEIVED BY:		Date/Time:		No. of Bottles/Vials										
<i>[Signature]</i>				<i>[Signature]</i>				1										
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:												
RELINQUISHED BY:		Date/Time:		RECEIVED BY:		Date/Time:		No. of Bottles/Vials										
<i>[Signature]</i>				<i>[Signature]</i>				1										
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:												
RELINQUISHED BY:		Date/Time:		RECEIVED BY:		Date/Time:		No. of Bottles/Vials										
<i>[Signature]</i>				<i>[Signature]</i>														
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:												
RELINQUISHED BY:		Date/Time:		RECEIVED BY:		Date/Time:		No. of Bottles/Vials										
<i>[Signature]</i>				<i>[Signature]</i>														
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:												
RELINQUISHED BY:		Date/Time:		RECEIVED BY:		Date/Time:		No. of Bottles/Vials										
<i>[Signature]</i>				<i>[Signature]</i>														
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:												
RELINQUISHED BY:		Date/Time:		RECEIVED BY:		Date/Time:		No. of Bottles/Vials										
<i>[Signature]</i>				<i>[Signature]</i>														
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:												
RELINQUISHED BY:		Date/Time:		RECEIVED BY:		Date/Time:		No. of Bottles/Vials										
<i>[Signature]</i>				<i>[Signature]</i>														
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:												
RELINQUISHED BY:		Date/Time:		RECEIVED BY:		Date/Time:		No. of Bottles/Vials										
<i>[Signature]</i>				<i>[Signature]</i>														
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:												
RELINQUISHED BY:		Date/Time:		RECEIVED BY:		Date/Time:		No. of Bottles/Vials										
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COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:												
RELINQUISHED BY:		Date/Time:		RECEIVED BY:		Date/Time:		No. of Bottles/Vials										
<i>[Signature]</i>				<i>[Signature]</i>														
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:												
RELINQUISHED BY:		Date/Time:		RECEIVED BY:		Date/Time:		No. of Bottles/Vials										
<i>[Signature]</i>				<i>[Signature]</i>														
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:												

CHAIN-OF-CUSTODY RECORD

№ 002488

PROJECT NAME:		#		GC/MS		GC		INORGANICS		OTHER		SAMPLING INFO		REMARKS			
PROJECT NUMBER: 73801		No. of Bottles/Vials		624-8240								DATE 11/16/89		TIME 1050			
SAMPLERS (SIGNATURE)		625-8270		TCL-VOA													
PRINTED NAME Robert J. McNamee		TCL-SVOA		Other:													
		CLIENT ID (9 CHARACTERS)		601-8010		602-8020											
1	2	3	4	5	6	7	8	9	TCL PEST/PCB's								
7	3	8	0	0	1	1	8		Herbicides				W		302913		
7	3	8	0	0	1	1	7		Other:				W		302192		
									Metals								
									Cyanide								
									TAL Metals								
									Other:								
									TOC								
									TOX								
									Oil & Grease								
									Pet. Hydro.								
									Phenols								
									MATRIX: Water/Soil								
RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:							
DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:							
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:							
RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:							
DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:							
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:							
RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:							
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DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:							
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:							
RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:							
DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:							
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:							
RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:							
DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:							
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:							
RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:							
DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:							
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:							
RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:							
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COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:							
RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:							
DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:							
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:							
RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:		RELINQUISHED BY:							
DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:							
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:							
RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:		RECEIVED BY:							
DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:							
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:							

Wd in spec in system
 738001-18 738001-17
**RECEIVED IN PR
 4-15-89
 GOOD CONDITION**

SHIPPING INFORMATION
 Number of Shipping Containers:
 Method of Shipment:
 Special Handling Requirements:

CHAIN-OF-CUSTODY RECORD

№ 002436

PROJECT NAME:		PROJECT NUMBER:		SAMPLERS SIGNATURE:		PRINTED NAME:		CLIENT ID (9 CHARACTERS):		#	GC/MS	GC	INORGANICS	OTHER	MATRIX: Water / Soil	SAMPLING INFO		REMARKS	
		738201		<i>Robert J. McNamee</i>		Robert J. McNamee		73800117								DATE	TIME		
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		No. of Bottles/Vials											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		624-8240											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		625-8270											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		TCL-VOA											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		TCL-SVOA											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		Other:											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		601-8010											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		602-8020											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		608-8080											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		8140											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		TCL PEST/PCB's											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		Herbicides											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		Other:											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		Metals											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		Cyanide											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		TAL Metals											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		Other:											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		TOC											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		TOX											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		Oil & Grease											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		Pet. Hydro.											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		Phenols											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		No. of Bottles/Vials											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		8											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		23											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		7											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		21											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		W											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		W											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		302178											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		TIP blank 302175											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		W											
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/14/89		W											
COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		COMPANY NAME: <i>Federal Express</i>		Date/Time: 11/14/89		W											

RECEIVED IN *91-15-89*
GOOD CONDITION

old media system: 73800117
Lab File

SHIPPING INFORMATION
Number of Shipping Containers:
Method of Shipment

Special Handling Requirements

CHAIN-OF-CUSTODY RECORD

N9 002429

PROJECT NAME:		PROJECT NUMBER:		SAMPLE SIGNATURE:		PRINTED NAME:		CLIENT ID (9 CHARACTERS)		#	GC/MS	GC	INORGANICS	OTHER	MATRIX: Water/Soil	SAMPLING INFO	REMARKS																										
		73801		<i>Robert J McManus</i>		Robert J McManus		73800118		No. of Bottles/Vials	624-8240	625-8270	TCL-VOA	TCL-SVOA	Other:	601-8010	602-8020	608-8080	8140	TCL PEST/PCB's	Herbicides	Other:	Metals	Cyanide	TAL Metals	Other:	TOC	TOX	Oil & Grease	Pet. Hydro.	Phenols	DATE	TIME										
RECEIVED BY: <i>Robert J McManus</i>		DATE/TIME 11/11/89		RECEIVED BY: Guan Pudi		DATE/TIME 11-15-89		RECEIVED BY: Compa Chem		DATE/TIME 0830		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		DATE/TIME		DATE/TIME		DATE/TIME		DATE/TIME		DATE/TIME		DATE/TIME		DATE/TIME		DATE/TIME		DATE/TIME			
RECEIVED BY: <i>Federal Express</i>		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME	
RECEIVED BY: <i>Federal Express</i>		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME	
RECEIVED BY: <i>Federal Express</i>		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME	
RECEIVED BY: <i>Federal Express</i>		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME	

old workup system: 73801-18
RECEIVED IN ¹¹⁻¹⁵⁻⁸⁹
GOOD CONDITION

SHIPPING INFORMATION
Number of Shipping Containers-
Method of Shipment

Special Handling Requirements

CHAIN-OF-CUSTODY RECORD

№ 002424

PROJECT NAME:		PROJECT NUMBER: 738001		SAMPLERS/SIGNATURE		PRINTED NAME		CLIENT ID (9 CHARACTERS)		No. of Bottles/Vials		GC/MS		GC		INORGANICS		OTHER		SAMPLING INFO		REMARKS	
				<i>[Signature]</i>		Robert J. McNamee		73800121		8		23								DATE			
RECEIVED BY:		Date/Time		RECEIVED BY:		Date/Time		RECEIVED BY:		Date/Time		RECEIVED BY:		Date/Time		RECEIVED BY:		Date/Time		DATE		TIME	
<i>[Signature]</i>		11/14/89		<i>[Signature]</i>		11/15/89		<i>[Signature]</i>		0830		<i>[Signature]</i>								11/14/89		1355	
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:					
KYSPEC		KYSPEC		Compu Chem		Compu Chem		Compu Chem		Compu Chem		Compu Chem		Compu Chem		Compu Chem		Compu Chem					
RELINQUISHED BY:		Date/Time		RELINQUISHED BY:		Date/Time		RELINQUISHED BY:		Date/Time		RELINQUISHED BY:		Date/Time		RELINQUISHED BY:		Date/Time		MATRIX: Water / Soil			
<i>[Signature]</i>				<i>[Signature]</i>				<i>[Signature]</i>				<i>[Signature]</i>				<i>[Signature]</i>				W			
SHIPPING INFORMATION		Number of Shipping Containers:		Method of Shipment		Special Handling Requirements																	

CHAIN-OF-CUSTODY RECORD

Nº 002427

PROJECT NAME:		PROJECT NUMBER:		SAMPLERS (SIGNATURE)		PRINTED NAME		CLIENT ID (9 CHARACTERS)		No. of Bottles/Vials		GC/MS		GC		INORGANICS		OTHER		MATRIX: Water / Soil		DATE		TIME		REMARKS				
		738001		<i>Robert J. Henderson</i>		Robert J. Henderson																11/18/89		0845						
1	2	3	4	5	6	7	8	9																						
7	3	8	0	0	1	1	5			2											W							2215001000	20,150	
7	3	8	0	0	1	1	6			2											W							3081541000	30,815	
										1											W								Trip blank	30,000 5000
RECEIVED BY: <i>Robert J. Henderson</i>		Date/Time: 11/18/89		COMPANY NAME: <i>Lab Rite</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 11-15-89		COMPANY NAME: <i>Compuchem</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 0830		COMPANY NAME: <i>Compuchem</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 0830		COMPANY NAME: <i>Compuchem</i>		SHIPPING INFORMATION		Special Handling Requirements				
RECEIVED BY: <i>Robert J. Henderson</i>		Date/Time: 11/18/89		COMPANY NAME: <i>Lab Rite</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 11-15-89		COMPANY NAME: <i>Compuchem</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 0830		COMPANY NAME: <i>Compuchem</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 0830		COMPANY NAME: <i>Compuchem</i>		SHIPPING INFORMATION		Special Handling Requirements				
RECEIVED BY: <i>Robert J. Henderson</i>		Date/Time: 11/18/89		COMPANY NAME: <i>Lab Rite</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 11-15-89		COMPANY NAME: <i>Compuchem</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 0830		COMPANY NAME: <i>Compuchem</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 0830		COMPANY NAME: <i>Compuchem</i>		SHIPPING INFORMATION		Special Handling Requirements				
RECEIVED BY: <i>Robert J. Henderson</i>		Date/Time: 11/18/89		COMPANY NAME: <i>Lab Rite</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 11-15-89		COMPANY NAME: <i>Compuchem</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 0830		COMPANY NAME: <i>Compuchem</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 0830		COMPANY NAME: <i>Compuchem</i>		SHIPPING INFORMATION		Special Handling Requirements				
RECEIVED BY: <i>Robert J. Henderson</i>		Date/Time: 11/18/89		COMPANY NAME: <i>Lab Rite</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 11-15-89		COMPANY NAME: <i>Compuchem</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 0830		COMPANY NAME: <i>Compuchem</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 0830		COMPANY NAME: <i>Compuchem</i>		SHIPPING INFORMATION		Special Handling Requirements				
RECEIVED BY: <i>Robert J. Henderson</i>		Date/Time: 11/18/89		COMPANY NAME: <i>Lab Rite</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 11-15-89		COMPANY NAME: <i>Compuchem</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 0830		COMPANY NAME: <i>Compuchem</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 0830		COMPANY NAME: <i>Compuchem</i>		SHIPPING INFORMATION		Special Handling Requirements				
RECEIVED BY: <i>Robert J. Henderson</i>		Date/Time: 11/18/89		COMPANY NAME: <i>Lab Rite</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 11-15-89		COMPANY NAME: <i>Compuchem</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 0830		COMPANY NAME: <i>Compuchem</i>		RECEIVED BY: <i>Open Jordan</i>		Date/Time: 0830		COMPANY NAME: <i>Compuchem</i>		SHIPPING INFORMATION		Special Handling Requirements				

CHAIN-OF-CUSTODY RECORD

Nº 002188

PROJECT NAME:		#	GC/MS	GC	MORGANICS	OTHER	SAMPLING INFO		REMARKS
PROJECT NUMBER:		No. of Bottles/Vials		Herbicides	Metals	Phenols	DATE	TIME	
SAMPLE ORIGIN (NATURE)		Other:		TCL PEST/PCB's	Cyanide	MATRIX: Water/Soil			
PRINTED NAME		624-8240		Other:	TAL Metals				
CLIENT ID (9 CHARACTERS)		625-8270		TOC	Other:				
		TCL-VOA		TOX	Oil & Grease				
		TCL-SVOA		Pet. Hydro.					
		Other:							
		601-8010							
		602-8020							
		608-8080							
		8140							
1	2	3	4	5	6	7	8	9	
7	3	8	0	0	1	2	5		RECEIVED IN 7 th 11/15/89 GOOD CONDITION *old used in system: 12801-25
									RECEIVED BY: <i>Robert J. McNamee</i> COMPANY NAME: <i>AVS SDC</i> Date/Time: <i>11/18/89</i>
									RECEIVED BY: <i>Dean Furdie</i> COMPANY NAME: <i>Compu Chem</i> Date/Time: <i>11/15/89</i>
									RECEIVED BY: <i>Dean Furdie</i> COMPANY NAME: <i>Compu Chem</i> Date/Time: <i>11/15/89</i>
									RECEIVED BY: <i>Dean Furdie</i> COMPANY NAME: <i>Compu Chem</i> Date/Time: <i>11/15/89</i>

CHAIN-OF-CUSTODY RECORD

№ 001178

PROJECT NAME:		#	GC/MS	GC	INORGANICS	OTHER	SAMPLING INFO		REMARKS
PROJECT NUMBER: 738001							DATE TIME	1700- 1750	
SAMPLERS (SIGNATURE): <i>Robert J. McNamee</i>									
PRINTED NAME: Robert J. McNamee		No. of Bottles/Vials	624-8240				MATRIX: Water / Soil		
CLIENT ID (9 CHARACTERS)			625-8270						
			TCL-VOA						
			TCL-SVOA						
			Other:						
			801-8010						
			602-8020						
			608-8080						
			8140						
			TCL PEST/PCB's						
			Herbicides						
			Other:						
			Metals						
			Cyanide						
			TAL Metals						
			Other:						
			TOC						
			TOX						
			Oil & Grease						
			Pet. Hydro.						
			Phenols						
1	2	3	4	5	6	7	8	9	
7	3	8	0	0	1	1	0		Surface 2 Pet. Hxcs. volu...
7	3	8	0	0	1	1	2		Water Analysis done by foreign lab
									501938
									501909

RELINQUISHED BY: <i>Robert J. McNamee</i>	Date/Time 11/18/89	RECEIVED BY: <i>Robert J. McNamee</i>	Date/Time 11/18/89
COMPANY NAME: Express		COMPANY NAME: Express	
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	

SHIPPING INFORMATION
Number of Shipping Containers-
Method of Shipment
Special Handling Requirements



**COMPICHEM
LABORATORIES**

CHAIN-OF-CUSTODY RECORD

Nº 002433

PROJECT NUMBER: 738001		PROJECT NAME: _____	
SAMPLERS/SIGNATURE: <i>Robert J. McLane</i>		SAMPLING INFO: DATE: <i>11/19/89</i> TIME: <i>1:00</i>	
PRINTED NAME: Robert J. McLane		REMARKS: <i>the sample taken in hanger of the engine's whisper</i>	
CLIENT ID (9 CHARACTERS): 73800110		MATRIX: Water/Soil: W	
No. of Bottles/Vials		#	
624-8240		GC/MS	
625-8270		GC	
TCL-VOA		MORGANICS	
TCL-SVOA		OTHER	
Other:		SAMPLING INFO	
601-8010		DATE	
602-8020		TIME	
608-8080			
8140			
TCL PEST/PCB's			
Herbicides			
Other:			
Metals			
Cyanide			
TAL Metals			
Other:			
TOC			
TOX			
Oil & Grease			
Pet. Hydro.			
Phenols			
SHIPPING INFO		REMARKS	
Number of Shipping Containers:		301938	
Method of Shipment:		RECEIVED IN <i>Q8</i> GOOD CONDITION	
Special Handling Requirements:			

CHAIN-OF-CUSTODY RECORD

No 002489


PROJECT NAME:		PROJECT NUMBER: 738001		SAMPLING INFO		REMARKS	
SAMPLE SIGNATURE: <i>Robert J. Henkamee</i>		CLIENT ID (9 CHARACTERS):		DATE: 11/26/89		TIME: 17:50	
PRINTED NAME: Robert J. Henkamee		No. of Bottles/Vials		MATRIX: Water/Soil			
1		8					
2		23					
3							
4							
5							
6							
7							
8							
9							
10							
11							
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RECEIVED IN ⁹⁸11-14-89
GOOD CONDITION

SHIPPING INFORMATION
Number of Shipping Containers-
Method of Shipment
Special Handling Requirements



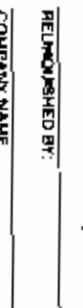
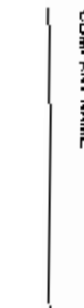


CHAIN-OF-CUSTODY RECORD

№ 002187

PROJECT NAME:	PROJECT NUMBER: 73801																						
SAMPLER'S SIGNATURE:	 Robert J. McLane																						
PRINTED NAME:	Robert J. McLane																						
CLIENT ID (9 CHARACTERS)	73800102																						
#	GC/MS	GC	INORGANICS	OTHER	MATRIX: Water / Soil	SAMPLING INFO		REMARKS															
						DATE	TIME																
No. of Bottles/Vials	824-8240	625-8270	TCL-VOA	TCL-SVOA	Other:	601-8010	602-8020	608-8080	8140	TCL PEST/PC8's	Herbicides	Other:	Metals	Cyanide	TAL Metals	Other:	TOC	TOX	Oil & Grease	Pet. Hydro.	Phenols		
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RECEIVED IN ORIGINAL GOOD CONDITION

301910
 With special lab
 holder due to
 changing * NYS DEC

RELINQUISHED BY:		Date/Time:	11/13/89	RELINQUISHED BY:		Date/Time:		RELINQUISHED BY:		Date/Time:		RELINQUISHED BY:		Date/Time:		RELINQUISHED BY:		Date/Time:	
COMPANY NAME:	NYS DEC	RELINQUISHED BY:		COMPANY NAME:		RELINQUISHED BY:		COMPANY NAME:		RELINQUISHED BY:		COMPANY NAME:		RELINQUISHED BY:		COMPANY NAME:		RELINQUISHED BY:	
RECEIVED BY:		Date/Time:	11/13/89	RECEIVED BY:		Date/Time:	11/13/89	RECEIVED BY:		Date/Time:	11/13/89	RECEIVED BY:		Date/Time:	11/13/89	RECEIVED BY:		Date/Time:	11/13/89
COMPANY NAME:	Federal Express	RELINQUISHED BY:		COMPANY NAME:		RELINQUISHED BY:		COMPANY NAME:		RELINQUISHED BY:		COMPANY NAME:		RELINQUISHED BY:		COMPANY NAME:		RELINQUISHED BY:	
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SHIPPING INFORMATION
 Number of Shipping Containers:
 Method of Shipment:
 Special Handling Requirements:

CHAIN-OF-CUSTODY RECORD

№ 002435

PROJECT NAME:	733001		#	No. of Bottles/Vials	GC	INORGANICS	OTHER	SAMPLING INFO	REMARKS
PROJECT NUMBER:	733001		824-8240					DATE 11/28/89 TIME 1000	30/917 Sent w/ bottles by lab
SAMPLERS (SIGNATURE):	<i>Robert J. McNamee</i>		825-8270						
PRINTED NAME:	Robert J. McNamee		TCL-VOA	23					
CLIENT ID (9 CHARACTERS):	1	2							
	3	4							
	5	6							
	7	8							
	9								
RECEIVED BY:	<i>Robert J. McNamee</i>	Date/Time:	11/28/89	RECEIVED BY:		Date/Time:		SHIPPING INFORMATION	Number of Shipping Containers-
COMPANY NAME:	NYSCEF			COMPANY NAME:					
RECEIVED BY:	<i>Federal Express</i>	Date/Time:		RECEIVED BY:		Date/Time:		Special Handling Requirements	
COMPANY NAME:	Federal Express			COMPANY NAME:					
RECEIVED BY:		Date/Time:		RECEIVED BY:		Date/Time:			
COMPANY NAME:				COMPANY NAME:					
RECEIVED BY:		Date/Time:		RECEIVED BY:		Date/Time:			
COMPANY NAME:				COMPANY NAME:					
RECEIVED BY:		Date/Time:		RECEIVED BY:		Date/Time:			
COMPANY NAME:				COMPANY NAME:					

Trip blank

RECEIVED IN
GOOD CONDITION

CHAIN-OF-CUSTODY RECORD

№ 001684

301910, 301917

PROJECT NAME:										#			
PROJECT NUMBER: 738001										624-8240			
SAMPLES SIGNATURE:										625-8270			
<i>Robert J. McLane</i>										TCL-VOA			
PRINTED NAME:										TCL-SVOA			
CLIENT ID (9 CHARACTERS)										Other:			
1	2	3	4	5	6	7	8	9	601-8010				
73	80	01	01						602-8020				
73	80	01	02						608-8080				
									8140				
									TCL PEST/PCB's				
									Herbicides				
									Other:				
									Metals				
									Cyanide				
									TAL Metals				
									Other:				
									TOC				
									TOX				
									Oil & Grease				
									Pet. Hydro.				
									Phenols				
									MATRIX: Water/Soil				
									DATE		REMARKS		
									TIME				
RECEIVED IN GOOD CONDITION RECEIVED INFO 3/14/89 GOOD CONDITION											11/27/89 1000		Partial sample set for each 15#.
											11/27/89 1000		

CHAIN-OF-CUSTODY RECORD

№ 002425

PROJECT NAME: PROJECT NUMBER: 738021 SAMPLERS (SIGNATURE) <i>[Signature]</i> PRINTED NAME: Robert V. McNamee	#	GC/MS	GC	INORGANICS	OTHER	MATRIX: Water / Soil	SAMPLING INFO	REMARKS
	No. of Bottles/Vials	624-8240 625-8270	TCL-VOA TCL-SVOA	Other: 601-8010 602-8020 608-8080 8140	TCL PEST/PCB's Herbicides	Other: Metals Cyanide TAL Metals	TOC TOX Oil & Grease Pet. Hydro. Phenols	
CLIENT ID (9 CHARACTERS)	1 2 3 4 5 6 7 8 9							
	73800105	8	23	21				301937
RELINQUISHED BY: <i>[Signature]</i> COMPANY NAME: Federal Express	Date/Time: 11/19/87	RELINQUISHED BY: <i>[Signature]</i> COMPANY NAME: Federal Express	Date/Time: 11/19/87	RELINQUISHED BY: <i>[Signature]</i> COMPANY NAME: Federal Express	Date/Time: 11/19/87	RELINQUISHED BY: <i>[Signature]</i> COMPANY NAME: Federal Express	Date/Time: 11/19/87	SHIPPING INFORMATION Number of Shipping Containers: Method of Shipment: Special Handling Requirements:
								RECEIVED IN ⁹⁸ 11/24/87 GOOD CONDITION

CHAIN-OF-CUSTODY RECORD

№ 002193

PROJECT NAME:		PROJECT NUMBER:		SAMPLES (SIGNATURE)		PRINTED NAME		CLIENT ID (9 CHARACTERS)		No. of Bottles/Vials		GC/MS		GC		ORGANICS		OTHER		MATRIX: Water/Soil		SAMPLING INFO		REMARKS			
		738001		<i>[Signature]</i>		Robert J. McNamee		73800103		8		624-8240 625-8270 TCL-VOA TCL-SVOA Other: 601-8010 602-8020 608-8080 8140 TCL PEST/PCB's Herbicides Other: Metals Cyanide TAL Metals Other: TOC TOX Oil & Grease Pet. Hydro. Phenols								DATE: 11/25/99 TIME: 1200		301918					
RELINQUISHED BY:	<i>[Signature]</i>	DATE/TIME:	11/25/99	RELINQUISHED BY:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:	
COMPANY NAME:	EXPRESS	DATE/TIME:	11/25/99	COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:	
RECEIVED BY:	<i>[Signature]</i>	DATE/TIME:	11/25/99	RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:	
COMPANY NAME:	EXPRESS	DATE/TIME:	11/25/99	COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:	
RELINQUISHED BY:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:	
COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:	
<p>RECEIVED IN GOOD CONDITION</p> <p>SHIPPING INFORMATION</p> <p>Number of Shipping Containers: _____</p> <p>Method of Shipment _____</p> <p>Special Handling Requirements _____</p>																											

CHAIN-OF-CUSTODY RECORD

№ 002485

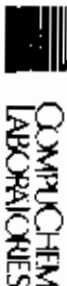
PROJECT NAME:		PROJECT NUMBER: 738001		SAMPLE SIGNATURE: <i>Robert J. McNamee</i>		PRINTED NAME: Robert J. McNamee		CLIENT ID (9 CHARACTERS): 73800108											
No. of Bottles/Vials	GC/MS	GC	INORGANICS	OTHER	MATRIX: Water/Soil	SAMPLING INFO	REMARKS	DATE/TIME											
	624-8240							625-8270	601-8010	602-8020	608-8080	8140	TCL PEST/PCB's	Herbicides	Other:	Metals	Cyanide	TAL Metals	Other:
8	23		21		S	11/13/89	1610	5019X2											
RELINQUISHED BY: <i>Robert J. McNamee</i>		Date/Time: 11/13/89		RELINQUISHED BY: <i>Robert J. McNamee</i>		Date/Time: 11/13/89		RELINQUISHED BY: <i>Robert J. McNamee</i>		Date/Time: 11/13/89		SHIPPING INFORMATION Number of Shipping Containers: Method of Shipment:							
RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/13/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/13/89		RECEIVED BY: <i>Robert J. McNamee</i>		Date/Time: 11/13/89		Special Handling Requirements							
COMPANY NAME: NYS DEC		COMPANY NAME: NYS DEC		COMPANY NAME: NYS DEC		COMPANY NAME: NYS DEC		COMPANY NAME: NYS DEC		COMPANY NAME: NYS DEC		Special Handling Requirements							

RECEIVED IN ^{FR} 11-14-89
GOOD CONDITION

CHAIN-OF-CUSTODY RECORD

№ 001685

PROJECT NAME:		PROJECT NUMBER: 738001		SAMPLE SIGNATURE: <i>Robert J McNamee</i>		PRINTED NAME: Robert J McNamee	
CLIENT ID (9 CHARACTERS)		No. of Bottles/Vials		GC/MS		GC	
1		624-8240		TCL-VOA		TCL PEST/PCB's	
2		625-8270		TCL-SVOA		Herbicides	
3		Other:		601-8010		Other:	
4		602-8020		608-8080		Metals	
5		8140		TAL Metals		Cyanide	
6		2		Other:		TOC	
7		2		TOX		Oil & Grease	
8				Pet. Hydro.		Phenols	
9				MATRIX: Water/Soil		DATE 11/18/00	
						TIME 1000	
						REMARKS	
						RECEIVED IN ¹⁰ 11/18/00	
						GOOD CONDITION	
RELINQUISHED BY: <i>Robert J McNamee</i>		RELINQUISHED BY: COMPANY NAME:		RELINQUISHED BY: COMPANY NAME:		RELINQUISHED BY: COMPANY NAME:	
RECEIVED BY: <i>Robert J McNamee</i>		RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME:		RECEIVED BY: COMPANY NAME:	
RELINQUISHED BY: COMPANY NAME:		RELINQUISHED BY: COMPANY NAME:		RELINQUISHED BY: COMPANY NAME:		RELINQUISHED BY: COMPANY NAME:	
RELINQUISHED BY: COMPANY NAME:		RELINQUISHED BY: COMPANY NAME:		RELINQUISHED BY: COMPANY NAME:		RELINQUISHED BY: COMPANY NAME:	
						SHIPPING INFORMATION	
						Number of Shipping Containers-	
						Method of Shipment	
						Special Handling Requirements	



CHAIN-OF-CUSTODY RECORD

№ 001686

PROJECT NAME:		PROJECT NUMBER: 73801		SAMPLER SIGNATURE:				PRINTED NAME: Robert J. McLawrence			
CLIENT ID (9 CHARACTERS)		No. of Bottles/Vials		GC/MS		GC		MORGANICS		OTHER	
1		624-8240		TCL-VOA		TCL-VOA		Other:			
2		625-8270		TCL-VOA		TCL-VOA		601-8010			
3								602-8020			
4								608-8080			
5								8140			
6								TCL PEST/PCB's			
7								Herbicides			
8								Other:			
9								Metals			
10								Cyanide			
11								TAL Metals			
12								Other:			
13								TOC			
14								TOX			
15								Oil & Grease			
16								Pet. Hydro.			
17								Phenols			
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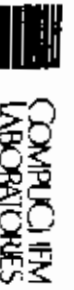
RECEIVED IN **GOOD CONDITION**
 73801-15 73801-20
 Received in containers:

SHIPPING INFORMATION
 Number of Shipping Containers:
 Method of Shipment:
 Special Handling Requirements:

CHAIN-OF-CUSTODY RECORD

NR 002438

PROJECT NAME: <u>73801</u>		PROJECT NUMBER: <u>73801</u>		SAMPLERS: (SIGNATURE) <i>[Signature]</i>		PRINTED NAME <u>Robert J. McLaner</u>		CLIENT ID (9 CHARACTERS) <u>738010116</u>		#		GC/MS		GC		INORGANICS		OTHER		SAMPLING INFO		REMARKS																																							
RECEIVED BY <u>[Signature]</u>		DATE/TIME <u>11/14/89</u>		COMPANY NAME <u>[Signature]</u>		RECEIVED BY <u>[Signature]</u>		DATE/TIME <u>11-15-89</u>		COMPANY NAME <u>[Signature]</u>		RECEIVED BY <u>[Signature]</u>		DATE/TIME <u>11-15-89</u>		COMPANY NAME <u>[Signature]</u>		RECEIVED BY <u>[Signature]</u>		DATE/TIME <u>[Signature]</u>		COMPANY NAME <u>[Signature]</u>		SHIPPING INFORMATION Number of Shipping Containers - Method of Shipment Special Handling Requirements																																					
										No. of Bottles/Vials		624-6240		625-8270		TCL-VOA		TCL-SVOA		Other:		601-8010		602-8020		608-8080		8140		TCL PEST/PCB's		Herbicides		Other:		Metals		Cyanide		TAL Metals		Other:		TOC		TOX		Oil & Grease		Pet. Hydro.		Phenols		MATRIX: Water/Soil		DATE <u>11/14/89</u>		TIME <u>1000</u>		RECEIVED IN <u>GOOD CONDITION</u> IN 11-15-89 <i>all water samples 738001-16</i>	
										8																																																			



CHAIN-OF-CUSTODY RECORD

№ 002486

PROJECT NAME:		PROJECT NUMBER:		SAMPLERS (SIGNATURE)		CLIENT ID (9 CHARACTERS)		#		GC/MS		GC		METALS		OTHER		SAMPLING INFO		REMARKS	
		738001		[Signatures]		73800122		No. of Bottles/Vials		624-8240		625-8270		TCL-VOA		TCL-SVOA		Other:			
								601-8010		602-8020		608-8080		8140		TCL PEST/PCB's		Herbicides		Other:	
								Metals		Cyanide		TAL Metals		Other:		TOC		TOX		Oil & Grease	
								Pet. Hydro.		Phenols											
								MATRIX: Water / Soil		DATE		TIME									
1	2	3	4	5	6	7	8	9													
7	3	8	0	0	1	2	1		2												302155
7	3	8	0	0	1	2	2		2												302155
<p>RECEIVED BY: [Signature] DATE: 11/15/89</p> <p>COMPANY NAME: Federal Express</p> <p>RECEIVED BY: [Signature] DATE: 11/15/89</p> <p>COMPANY NAME: [Signature]</p> <p>RECEIVED BY: [Signature] DATE: 11/15/89</p> <p>COMPANY NAME: [Signature]</p> <p>RECEIVED BY: [Signature] DATE: 11/15/89</p> <p>COMPANY NAME: [Signature]</p> <p>RECEIVED BY: [Signature] DATE: 11/15/89</p> <p>COMPANY NAME: [Signature]</p>																					
<p>SHIPPING INFORMATION</p> <p>Number of Shipping Containers: [Blank]</p> <p>Method of Shipment: [Blank]</p> <p>Special Handling Requirements: [Blank]</p>																					
<p>add wood in systems</p> <p>738001-21 738001-22</p> <p>RECEIVED IN 9/11-15/89</p> <p>GOOD CONDITION</p>																					

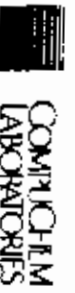


COMPU-CHEM
LABORATORIES

CHAIN-OF-CUSTODY RECORD

NO 002188

PROJECT NAME:		PROJECT NUMBER:		SAMPLE(S)/SIGNATURE:		PRINTED NAME:		CLIENT ID (9 CHARACTERS):		No. of Bottles / Vials		GC/MS		GC		ORGANICS		OTHER		SAMPLING INFO		REMARKS																	
		738201		<i>[Signature]</i>		<i>Robert J. McNamee</i>		73800125		8		23								DATE																			
										624-8240		625-8270		601-8010		602-8020		608-8080		8140		TCL PEST/PCB's																	
										Other:		Herbicides		Other:		Metals		Cyanide		TAL Metals		Other:		TOC		TOX		Oil & Grease		Pet. Hydro.		Phenols		MATRIX: Water/Soil		TIME			
RECEIVED BY:		Date/Time		RECEIVED BY:		Date/Time		RECEIVED BY:		Date/Time		RECEIVED BY:		Date/Time		RECEIVED BY:		Date/Time		RECEIVED BY:		Date/Time		SHIPPING INFORMATION		Number of Shipping Containers-		Method of Shipment		Special Handling Requirements									
<i>[Signature]</i>		11/18/89		<i>[Signature]</i>		11/15/89		<i>[Signature]</i>		0830		<i>[Signature]</i>		11/15/89		<i>[Signature]</i>								RECEIVED IN ^{9P} 11/15/89															
COMPANY NAME:				COMPANY NAME:				COMPANY NAME:				COMPANY NAME:				COMPANY NAME:								GOOD CONDITION															
COMPANY NAME:				COMPANY NAME:				COMPANY NAME:				COMPANY NAME:				COMPANY NAME:																							
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CHAIN-OF-CUSTODY RECORD

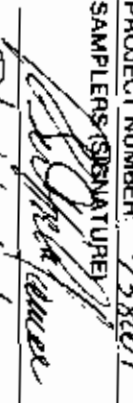
No 002428

PROJECT NAME:		PROJECT NUMBER: 738201		SAMPLERS SIGNATURE: <i>[Signature]</i>		PRINTED NAME: Robert J. McNamee				
CLIENT ID (9 CHARACTERS)	1	2	3	4	5	6	7	8	9	
	73800125	73800126								
	No. of Bottles/Vials		624-8240		625-8270		TCL-VOA		TCL-SVOA	
	Other:		601-8010		802-8020		608-8080		8140	
	TCL PEST/PCB's		Herbicides		Other:		Metals		Cyanide	
	TAL Metals		Other:		TOC		TOX		Oil & Grease	
	Pet. Hydro.		Phenols		MATRIX: Water/Soil		DATE: 11/16/09		TIME: 10:35	
	SAMPLING INFO		REMARKS		All work by OLF		738001-25		RECEIVED IN GOOD CONDITION	
	SHIPPING INFORMATION		Number of Shipping Containers:		Method of Shipment:		Special Handling Requirements:			



CHAIN-OF-CUSTODY RECORD

№ 002424

PROJECT NAME		PROJECT NUMBER: 738001		SAMPLERS SIGNATURE		PRINTED NAME		CLIENT ID (9 CHARACTERS)		No. of Bottles/Vials		GC/MS		GC		INORGANICS		OTHER		SAMPLING INFO		REMARKS			
						Robert J. McNamee		73800121		8		23		21		w		302168		DATE 11/4/89 TIME 1355		old used in system. 738001-51 RECEIVED IN 9P 11-15-89 GOOD CONDITION			
RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:	
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RECEIVED BY: <i>Federal Express</i>		DATE/TIME: <i>11/15/89</i>		RECEIVED BY: <i>Open Field</i>		DATE/TIME: <i>0830</i>		RECEIVED BY: <i>Open Field</i>		DATE/TIME: <i>0830</i>		RECEIVED BY: <i>Open Field</i>		DATE/TIME: <i>0830</i>		RECEIVED BY: <i>Open Field</i>		DATE/TIME: <i>0830</i>		RECEIVED BY: <i>Open Field</i>		DATE/TIME: <i>0830</i>		RECEIVED BY: <i>Open Field</i>	
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COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:	
RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:	
COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:		DATE/TIME:		COMPANY NAME:	

CHAIN-OF-CUSTODY RECORD

NO 002436

PROJECT NAME:		PROJECT NUMBER:		SAMPLERS (SIGNATURE)		PRINTED NAME		CLIENT ID (9 CHARACTERS)		No. of Bottles/Vials		GC/MS		GC		INORGANICS		OTHER		MATRIX: Water/Soil		SAMPLING INFO		REMARKS	
		73801		<i>[Signature]</i>		Robert J. McNamee		73800117		8		23								DATE		TIME			
RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		DATE		TIME			
<i>[Signature]</i>		11/16/89		<i>[Signature]</i>		11/15/89		<i>[Signature]</i>		0830		<i>[Signature]</i>								11/16/89		1050		w Trip blank 302195	
COMPANY NAME:		Date/Time		COMPANY NAME:		Date/Time		COMPANY NAME:		Date/Time		COMPANY NAME:		Date/Time		COMPANY NAME:		Date/Time		DATE		TIME		REMARKS	
Federal Express				span Funda				comp Chem																SHIPPING INFORMATION Number of Shipping Containers - Method of Shipment Special Handling Requirements Received in good condition Lab Pave old water system: 73801-19	



CHAIN-OF-CUSTODY RECORD

No 002488

PROJECT NAME:		#		GC/MS					GC	INORGANICS			OTHER			MATRIX: Water / Soil		SAMPLING INFO		REMARKS																																				
PROJECT NUMBER: 738201		No. of Bottles/Vials		624-8240	625-8270	TCL-VOA	TCL-SVOA	Other:	601-8010	602-8020	608-8080	8140	TCL PEST/PCB's	Herbicides	Other:	Metals	Cyanide	TAL Metals	Other:	TOC	TOX	Oil & Grease	Pet. Hydro.	Phenols	DATE	TIME																														
SAMPLERS-SIGNATURE: <i>(Signature)</i>																																																								
PRINTED NAME: Robert J. McAnew																								11/17/89	1050																															
CLIENT ID (9 CHARACTERS)																																																								
1	2	3	4	5	6	7	8	9																																																

No used in system:
 738001-18 738001-17
RECEIVED IN GOOD CONDITION
 9844589

SHIPPING INFORMATION

Number of Shipping Containers:

Method of Shipment

Special Handling Requirements

CHAIN-OF-CUSTODY RECORD

№ 002429

PROJECT NAME:													SAMPLING INFO	REMARKS					
PROJECT NUMBER:		73801																	
SAMPLE SIGNATURE:		<i>Robert J McNamee</i>																	
PRINTED NAME:		Robert J McNamee																	
CLIENT ID (8 CHARACTERS)																			
1		2		3		4		5		6		7		8		9			
738001118		8		23		21		14		302123		DATE 11/15/89		TIME 1230					
#		No. of Bottles/Vials																	
GC/MS		624-8240																	
		625-8270																	
		TCL-VOA																	
		TCL-SVOA																	
		Other:																	
		601-8010																	
		602-8020																	
		608-8080																	
		8140																	
		TCL PEST/PCB's																	
		Herbicides																	
		Other:																	
		Metals																	
		Cyanide																	
		TAL Metals																	
		Other:																	
		TOC																	
		TOX																	
		Oil & Grease																	
		Pet. Hydro.																	
		Phenols																	
		OTHER																	
		MATRIX: Water/Soil																	
RELINQUISHED BY:		<i>Robert J McNamee</i>											SHIPPING INFORMATION						
COMPANY NAME:		Federal Express											Number of Shipping Containers-						
Date/Time:		11/15/89											Method of Shipment						
RECEIVED BY:		Span Perkins											Special Handling Requirements						
COMPANY NAME:		Comp Chem																	
Date/Time:		11-15-89																	
RELINQUISHED BY:													DATE						
COMPANY NAME:													TIME						
Date/Time:																			
		<p><i>old medication system: 73801-18</i></p> <p>RECEIVED IN ^{SP} 11-15-89</p> <p>GOOD CONDITION</p>																	

CHAIN-OF-CUSTODY RECORD

№ 002437

PROJECT NAME:		PROJECT NUMBER: 138001		SAMPLERS SIGNATURE:		PRINTED NAME: Robert S. McNamee		CLIENT ID (9 CHARACTERS):		#	GC/MS	GC	ORGANICS	OTHER	MATRIX: Water / Soil	SAMPLING INFO	REMARKS
RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		SPECIAL HANDLING REQUIREMENTS	
138001113		11/15/89		11/15/89		0830		11/15/89		11/15/89		11/15/89		11/15/89		old water system; 138001-13 subline RECEIVED IN GP 11-15-89 GOOD CONDITION	
23		21		21		21		21		21		21		21		302194 Trip blank 302195	
8		1		8		1		8		1		8		1		SHIPPING INFORMATION Number of Shipping Containers: Method of Shipment: Special Handling Requirements	

CHAIN-OF-CUSTODY RECORD

N2 001157

PROJECT NAME:	PROJECT NUMBER:	735001	#						GC/MS	GC	INORGANICS	OTHER	SAMPLING #/FO	REMARKS																														
SAMPLERS (SIGNATURE):		<i>[Signature]</i>	No. of Bottles/Vials						624-8240	625-8270	TCL-VOA	TCL-SVOA	Other:	601-8010	602-8020	608-8080	8140	TCL PEST/PCB's	Herbicides	Other:	Metals	Cyanide	TAL Metals	Other:	TOC	TOX	Oil & Grease	Pet. Hydro.	Phenols	MATRIX: Water / Soil	DATE	TIME												
PRINTED NAME		Robert V. Myrdance	CLIENT ID (9 CHARACTERS)												11/16/89	0820	0830																											
RECEIVED BY:		<i>[Signature]</i>	Date/Time		11/16/89	RECEIVED BY:		<i>[Signature]</i>	Date/Time		11/15/89	RECEIVED BY:		<i>[Signature]</i>	Date/Time		0829	RECEIVED BY:		<i>[Signature]</i>	Date/Time			SHIPPING INFORMATION																				
COMPANY NAME:		Federal Express	Date/Time			COMPANY NAME:		Compuchem	Date/Time			COMPANY NAME:			Date/Time			COMPANY NAME:			Date/Time			Special Handling Requirements																				
RELINQUISHED BY:		<i>[Signature]</i>	Date/Time			RELINQUISHED BY:			Date/Time			RELINQUISHED BY:			Date/Time			RELINQUISHED BY:			Date/Time			Number of Shipping Containers:			Method of Shipment																	
COMPANY NAME:			Date/Time			COMPANY NAME:			Date/Time			COMPANY NAME:			Date/Time			COMPANY NAME:			Date/Time			Special Handling Requirements																				

All water systems:
 735001-13
 RECEIVED IN 11/15/89
GOOD CONDITION

CHAIN-OF-CUSTODY RECORD

№ 002189

PROJECT NAME:		PROJECT NUMBER:		SAMPLER(S) SIGNATURE:		PRINTED NAME:		CLIENT ID (9 CHARACTERS)		No. of Bottles/Vials		GC/MS		GC		INORGANICS		OTHER		SAMPLING INFO		REMARKS			
		738001		<i>[Signature]</i>		Robert J. McNamee				624-8240		625-8270		TCL-VOA		TCL-SVOA		Other:		DATE		TIME			
										601-8010		602-8020		608-8080		B140		TCL PEST/PCB's		11/14/89		11:20			
										Herbicides		Other:		Metals		Cyanide		TAL Metals							
										Other:		TOC		TOX		Oil & Grease		Pet. Hydro.							
										Phenols															
										MATRIX: Water/Soil															
1	2	3	4	5	6	7	8	9																	
7	3	8	0	0	1	2	3																		
7	3	8	0	0	1	2	4																		
RELINQUISHED BY:		RECEIVED BY:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:	
<i>[Signature]</i>		<i>[Signature]</i>		11/14/89		11/15/89		0830																	
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:	
Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express	
RELINQUISHED BY:		RECEIVED BY:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:	
<i>[Signature]</i>		<i>[Signature]</i>		11/14/89		11/15/89		0830																	
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:	
Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express	
RELINQUISHED BY:		RECEIVED BY:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:	
<i>[Signature]</i>		<i>[Signature]</i>		11/14/89		11/15/89		0830																	
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:	
Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express	
RELINQUISHED BY:		RECEIVED BY:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:	
<i>[Signature]</i>		<i>[Signature]</i>		11/14/89		11/15/89		0830																	
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:	
Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express	
RELINQUISHED BY:		RECEIVED BY:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:	
<i>[Signature]</i>		<i>[Signature]</i>		11/14/89		11/15/89		0830																	
COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:		COMPANY NAME:	
Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express		Federal Express	

All used in systems:
738001-23 738001-24
RECEIVED IN 9/11/15/89
GOOD CONDITION

3. VOLATILES DATA

A. QC SUMMARY

B. SAMPLE DATA

C. STANDARDS DATA

D. RAW QC DATA

CASE#: 18410 SDG#: 05 BAS#: _____

A. QC SUMMARY

- (1) Surrogate Percent Recovery Summary (Form II VOA)
- (2) Matrix Spike / Matrix Spike Duplicate Summary (Form III VOA)
- (3) Method Blank Summary (Form IV VOA)

(If more than a single form is necessary , forms must be arranged in chronological order by date of analysis of the blank)

- (4) GC / MS Tuning and Mass Calibration (Form V VOA)

BFB in chronological order ; by Instrument

- (5) Internal Standard Area Summary (Form VII VOA)

In chronological order ; by Instrument

(1) Surrogate Percent Recovery Summary (Form II VOA)

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	738001-01	97	98	102		0
02	738001-02	100	102	104		0
03	738001-03	99	96	102		0
04	738001-05	95	94	97		0
05	738001-06	96	94	97		0
06	738001-08	92	91	96		0
07	738001-10	91	97	102		0
08	738001-12	95	91	95		0
09	738001-13	95	91	88		0
10	738001-14	108	91	92		0
11	738001-15	97	89	88		0
12	738001-16	105	97	98		0
13	738001-17	94	88	84		0
14	738001-18	100	89	87		0
15	738001-21	91	86	82		0
16	738001-22	106	97	102		0
17	738001-22RE	108	97	95		0
18	738001-23	98	92	89		0
19	738001-24	98	87	86		0
20	738001-25	102	98	98		0
21	738001-26	103	89	88		0
22	738001-10MS	94	90	96		0
23	738001-10MSD	101	97	106		0
24	VBLKLB	100	100	98		0
25	VBLKGS	95	94	99		0
26	VBLKDG	103	93	94		0
27	VBLKNP	102	91	90		0

QC LIMITS

S1 (TOL) = Toluene-d8 (88-110)
 S2 (BFB) = Bromofluorobenzene (86-115)
 S3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

(2) Matrix Spike / Matrix Spike Duplicate Summary (Form III VOA)

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix Spike - EPA Sample No.: 738001-10

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	0	55.8	112	61-145
Trichloroethene	50.0	0	51.7	103	71-120
Benzene	50.0	0	49.6	99	76-127
Toluene	50.0	0	47.0	94	76-125
Chlorobenzene	50.0	0	49.4	99	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
1,1-Dichloroethene	50.0	64.6	129	-14	14 61-145
Trichloroethene	50.0	59.0	118	-14	14 71-120
Benzene	50.0	56.7	113	-13 *	11 76-127
Toluene	50.0	52.4	105	-11	13 76-125
Chlorobenzene	50.0	58.0	116	-16 *	13 75-130

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

* Values outside of QC limits

RPD: 2 out of 5 outside limits
 Spike Recovery: 0 out of 10 outside limits

COMMENTS: CLP ,1841,05,10,LOW,WATER,301938,VOLATILE, ,
 TUNE: 0012 111589 1326

(3) Method Blank Summary (Form IV VOA)

**(If more than a single form is necessary , forms must
be arranged in chronological order by date of analysis
of the blank)**

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
Lab File ID: CB891115C12 Lab Sample ID: VBLKLB
Date Analyzed: 11/15/89 Time Analyzed: 0228
Matrix: (soil/water) WATER Level: (low/med) LOW
Instrument ID: 12

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	738001-06	301939	CN001939A12	1142

COMMENTS: CLP , , , , , VOLATILE, BLANK,
TUNE: 0012 111589 0121

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMFU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Lab File ID: CC891115A12 Lab Sample ID: VBLKGS
 Date Analyzed: 11/15/89 Time Analyzed: 1514
 Matrix: (soil/water) WATER Level: (low/med) LOW
 Instrument ID: 12

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	738001-01	301917	CN001917B12	1729
02	738001-02	301910	CN001910B12	1656
03	738001-03	301918	CN001918B12	1809
04	738001-05	301937	CN001937B12	1919
05	738001-08	301922	CN001922B12	1845
06	738001-10	301918	CN001938B12	1957
07	738001-12	301909	CN001909B12	1621
08	738001-10MS	301923	CN001923B12	2031
09	738001-10MSD	301924	CN001924B12	2110

COMMENTS: CLP , 1841, 05, 06, LOW, WATER, 301939, VOLATILE, BLANK,
TUNE: 0012 111589 1326

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REYS
Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
Lab File ID: CC891116C18 Lab Sample ID: VBLKDG
Date Analyzed: 11/16/89 Time Analyzed: 0206
Matrix: (soil/water) WATER Level: (low/med) LOW
Instrument ID: 18

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	738001-15	302150	CN002150C18	0753
02	738001-16	302154	CN002154A18	0839
03	738001-22	302155	CR002155A18	1034
04	738001-22RE	302155	C2R02155A18	1156
05	738001-25	302157	CN002157A18	1108

COMMENTS: CLP , 1841, 05, 17, LOW, WATER, 102172, VOLATILE, BLANK,
TUNE: 0018 111689 0030

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 BAS No.: _____ SDG No.: 05
 Lab File ID: CC891116A18 Lab Sample ID: VELKNP
 Date Analyzed: 11/16/89 Time Analyzed: 1514
 Matrix: (soil/water) WATER Level: (low/med) LOW
 Instrument ID: 18

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	738001-13	302174	CN002174B18	2021
02	738001-14	302175	CN002175B18	2105
03	738001-17	302172	CR002172B18	1933
04	738001-18	302171	CN002173B18	1852
05	738001-21	302168	CN002168B18	1741
06	738001-23	302182	CR002182B18	2340
07	7380D1-24	302176	CN002176B18	2158
08	7380D1-26	302166	CN002166B18	1714

COMMENTS: CLP
TUNE: 0018 111689 1403

(4) GC / MS Tuning and Mass Calibration (Form V YOA)

BFB in chronological order ; by instrument

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Lab File ID: BG891019B12 BFB Injection Date: 10/19/89
 Instrument ID: 12 BFB Injection Time: 2249
 Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.5
75	30.0 - 60.0% of mass 95	59.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	67.6
175	5.0 - 9.0% of mass 174	5.3 (7.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	66.5 (98.3)1
177	5.0 - 9.0% of mass 176	4.7 (7.1)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050		CU891019B12	10/19/89	2318
02	VSTD200		CS891020C12	10/20/89	0015
03	VSTD150		CT891020C12	10/20/89	0134
04	VSTD100		CU891020C12	10/20/89	0235
05	VSTD020		CW891020C12	10/20/89	0415

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Lab File ID: BF891115C12 BFB Injection Date: 11/15/89
 Instrument ID: 12 BFB Injection Time: 0121
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.2
75	30.0 - 60.0% of mass 95	55.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	9.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	89.9
175	5.0 - 9.0% of mass 174	6.1 (6.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	85.4 (95.0)1
177	5.0 - 9.0% of mass 176	7.4 (8.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050		CS891115C12	11/15/89	0136
02	VBLKLB	VBLKLB	CB891115C12	11/15/89	0228
03	718001-06	101939	CN001919A12	11/15/89	1142

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Lab File ID: BFB91115A12 BFB Injection Date: 11/15/89
 Instrument ID: 12 BFB Injection Time: 1326
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.0
75	30.0 - 60.0% of mass 95	58.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	76.8
175	5.0 - 9.0% of mass 174	6.1 (8.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	77.0 (100.2)1
177	5.0 - 9.0% of mass 176	5.8 (7.5)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050		CS891115A12	11/15/89	1340
02	VBLKGS	VBLKGS	CC891115A12	11/15/89	1534
03	738001-12	301909	CN001909B12	11/15/89	1621
04	738001-02	301910	CN001910B12	11/15/89	1656
05	738001-01	301917	CN001917B12	11/15/89	1729
06	738001-03	301918	CN001918B12	11/15/89	1809
07	738001-08	301922	CN001922B12	11/15/89	1845
08	738001-05	301937	CN001937B12	11/15/89	1919
09	738001-10	301938	CN001938B12	11/15/89	1957
10	738001-10MS	301923	CN001923B12	11/15/89	2031
11	738001-10MSD	301924	CN001924B12	11/15/89	2110

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
Lab File ID: BK891031C18 BFB Injection Date: 10/31/89
Instrument ID: 18 BFB Injection Time: 0643
Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	27.9
75	30.0 - 60.0% of mass 95	59.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	90.9
175	5.0 - 9.0% of mass 174	7.1 (7.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	88.6 (97.5)1
177	5.0 - 9.0% of mass 176	5.5 (6.2)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050		CY891031C18	10/31/89	0738
02	VSTD200		CS891031A18	10/31/89	0850
03	VSTD150		CT891031A18	10/31/89	0932
04	VSTD100		CU891031A18	10/31/89	1015
05	VSTD020		CV891031A18	10/31/89	1107

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Lab File ID: BF891116C18 BFB Injection Date: 11/16/89
 Instrument ID: 18 BFB Injection Time: 0010
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	IOM ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	28.2
75	30.0 - 60.0% of mass 95	57.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	92.2
175	5.0 - 9.0% of mass 174	6.6 (7.2)1
176	Greater than 95.0%, but less than 101.0% of mass 174	88.1 (95.5)1
177	5.0 - 9.0% of mass 176	5.8 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050		CS891116C18	11/16/89	0040
02	VBLKDG	VBLKDG	CC891116C18	11/16/89	0206
03	738001-15	302150	CN002150C18	11/16/89	0753
04	738001-16	3D2154	CN002154A18	11/16/89	0839
05	738D01-22	302155	CR002155A18	11/16/89	1034
06	738D01-25	302157	CN002157A18	11/16/89	1108
07	738001-22RE	302155	C2R02155A18	11/16/89	1156

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMFU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Lab File ID: BG891116A18 BFB Injection Date: 11/16/89
 Instrument ID: 18 BFB Injection Time: 1403
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	28.5
75	30.0 - 60.0% of mass 95	57.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	93.7
175	5.0 - 9.0% of mass 174	7.3 (7.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	91.5 (97.6)1
177	5.0 - 9.0% of mass 176	6.2 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050		CS891116A18	11/16/89	1414
02	VBLKNP	VBLKNP	CC891116A18	11/16/89	1514
03	738001-26	302166	CN002166B18	11/16/89	1714
04	738001-21	302168	CN002168B18	11/16/89	1743
05	738001-18	302173	CN002173B18	11/16/89	1852
06	738001-17	302172	CR002172B18	11/16/89	1933
07	738001-13	302174	CN002174B18	11/16/89	2021
08	738001-14	302175	CN002175B18	11/16/89	2105
09	738001-24	302176	CN002176B18	11/16/89	2158
10	738001-23	302182	CR002182B18	11/16/89	2340

(5) Internal Standard Area Summary (Form VIII VOA)

in chronological order ; by instrument



BA
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Lab File ID (Standard): CS891115C12 Date Analyzed: 11/15/89
 Instrument ID: 12 Time Analyzed: 0136
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
12 HOUR STD	72900	6.00	292000	7.70	260000	12.44
UPPER LIMIT	145800		584000		520000	
LOWER LIMIT	36450		146000		130000	
EPA SAMPLE NO.						
01 738001-06	71300	5.92	308000	7.65	282000	12.40
02 VBLKLB	75500	5.97	303000	7.68	275000	12.44

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CSZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPV Case No.: 18410 SAS No.: _____ SDG No.: 05
 Lab File ID (Standard): CS891115A12 Date Analyzed: 11/15/89
 Instrument ID: 12 Time Analyzed: 1340
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	59900	5.95	242000	7.67	225000	12.44
UPPER LIMIT	119800		484000		450000	
LOWER LIMIT	29950		121000		112500	
EPA SAMPLE NO.						
01 738001-01	68700	5.98	285000	7.70	256000	12.44
02 738001-02	66500	5.95	267000	7.65	244000	12.40
03 738001-03	69000	5.95	287000	7.65	259000	12.40
04 738001-05	70500	5.95	295000	7.67	264000	12.42
05 738001-08	72900	5.95	302000	7.67	270000	12.44
06 738001-10	68600	5.97	288000	7.67	254000	12.42
07 738001-12	72700	5.70	300000	7.40	265000	12.17
08 738001-10MS	77600	5.95	323000	7.68	281000	12.42
09 738001-10MSD	67900	5.95	284000	7.67	252000	12.45
10 VBLKGS	69400	5.90	283000	7.62	261000	12.35

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Lab File ID (Standard): CS891116C18 Date Analyzed: 11/16/89
 Instrument ID: 18 Time Analyzed: 0040
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CB2) AREA #	RT
12 HOUR STD	43800	4.72	173000	6.32	157000	10.90
UPPER LIMIT	87600		346000		314000	
LOWER LIMIT	21900		86500		78500	
EPA SAMPLE NO.						
01 738001-15	44400	4.63	164000	6.23	148000	10.84
02 738001-16	39700	4.65	145000	6.25	133000	10.87
03 738001-22	39100	4.62	146000	6.20	135000	10.82
04 738001-22RE	41000	4.58	150000	6.18	135000	10.82
05 738001-25	39800	4.60	140000	6.20	130000	10.82
06 VBLKDG	43700	4.65	160000	6.25	146000	10.85

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

BA
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Lab File ID (Standard): CS891116A18 Date Analyzed: 11/16/89
 Instrument ID: 18 Time Analyzed: 1414
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	39100	4.65	156000	6.25	140000	10.85
UPPER LIMIT	78200		312000		280000	
LOWER LIMIT	19550		78000		70000	
EPA SAMPLE NO.						
01 738001-13	42700	4.65	165000	6.25	147000	10.85
02 738001-14	39400	4.62	154000	6.22	140000	10.84
03 738001-17	40900	4.63	148000	6.23	137000	10.84
04 738001-18	41400	4.65	148000	6.25	141000	10.85
05 738001-21	41900	4.60	156000	6.22	141000	10.84
06 738001-23	43100	4.63	160000	6.25	147000	10.85
07 738001-24	42200	4.62	155000	6.22	147000	10.84
08 738001-26	45600	4.65	164000	6.25	152000	10.85
09 VBLKNP	41100	4.60	150000	6.21	139000	10.85

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene
 UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

B. SAMPLE DATA

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I VOA, including Form I VOA-TIC), followed by the raw data for volatile samples. These sample packets should then be placed in increasing EPA number order, considering both letters and numbers in ordering samples.

- TCL Results - Organic Analysis Data Sheet (Form I VOA). Tabulated results (identification and quantitation) of the specified target compounds (Exhibit C).
- Tentatively Identified Compounds (Form I VOA-TIC). This form must be included even if no compounds are found. If so, indicate this on the form by entering "0" in the field for "Number Found".
- Reconstructed total ion chromatograms (TIC) for each sample, sample extract, standard, blank and spiked sample.
- For each sample, by each compound identified.
 - (a) Copies of raw spectra and copies of background-subtracted mass spectra of target compounds listed in Exhibit C (TCL) that are identified in the sample and corresponding background-subtracted TCL standard mass spectra. Compound names must be clearly marked on all spectra.
 - (b) Copies of mass spectra of nonsurrogate organic compounds not listed in Exhibit C (TCL) (Tentatively Identified Compounds) which associated best-match spectra (three best matches).

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-01

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 301917
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN001917B12
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	6	J
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	1	J
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	2	J
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001-01

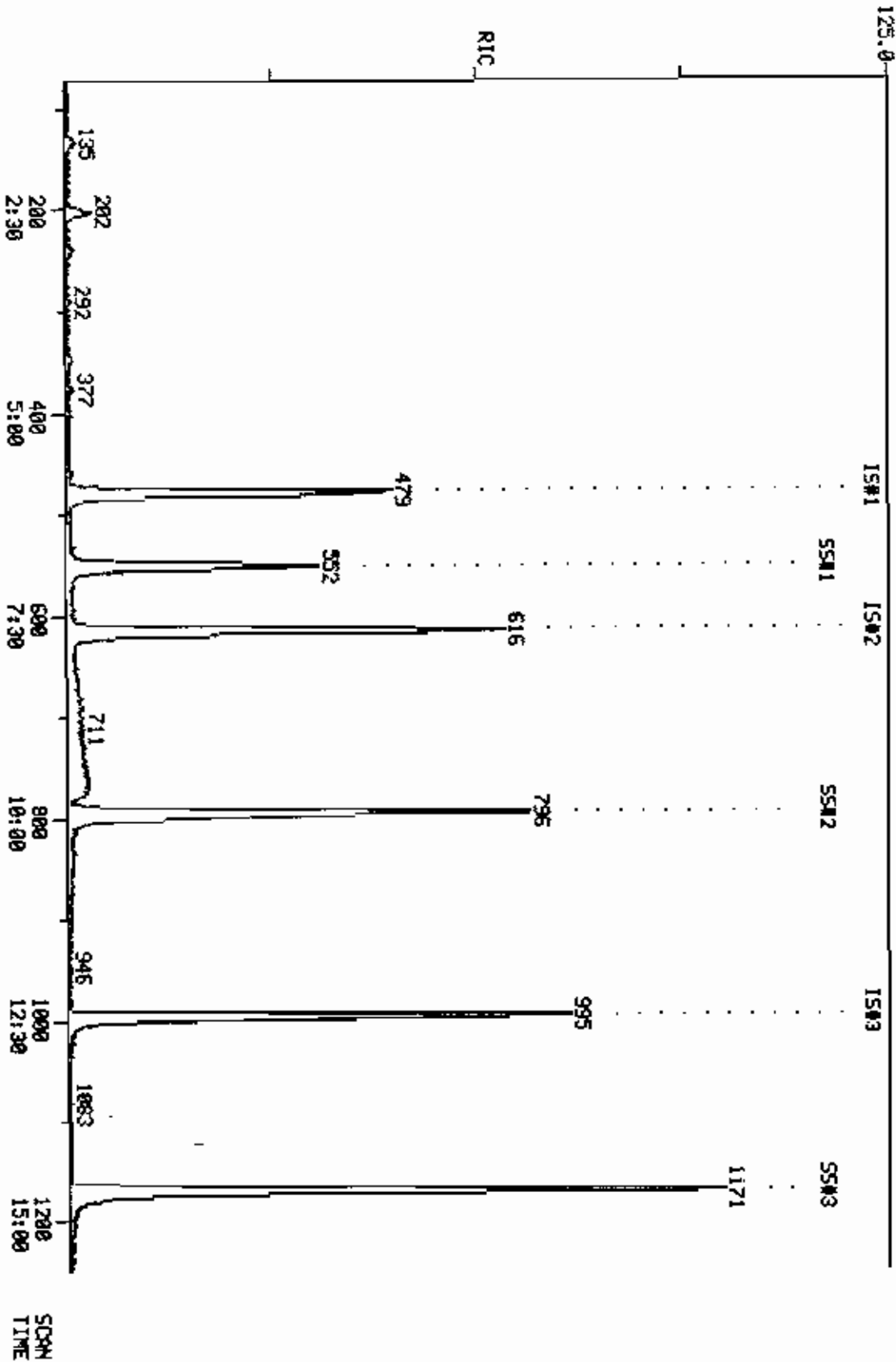
Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 19410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 301917
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN001917B12
 Level: (low/med) LOW Date Received: 11/14/89
 ‡ Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COMPUCHEN L085
COMPUCHEN DATA: CN001917812 SC#MS 74 TO 1250
11/15/09 17:29:00
SAMPLE: 5 ML CCl₄ 301917 10# 738801-01 CS# 18410 ON 12
CONDUS.:
179840.



QUANTITATION REPORT FILE: CN001917B12
 DATA: CN001917B12.T1
 11/15/89 17:29:00
 SAMPLE: 5 ML CC# 301917/ID# 738001-01/CS# 18410 DN 12
 CONDS.:
 SUBMITTED BY: 12 ANALYST: 1457

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE, 124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M, P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	*233 D8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	479	5:59	1	1.000	A BB	68665.	50.000 UG/L	15.79
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGHT)	AMOUNT	ZTOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	131	1:38	1	0.273	A BV	4066.	5.451 UG/L	1.78 <i>yes</i>
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	243	3:02	1	0.507	A*VV	980.	5.058 UG/L	1.60 <i>ND</i>
9	114	616	7:42	9	1.000	A BB	284566.	50.000 UG/L	15.79
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	376	4:42	1	0.785	A BB	2715.	1.027 UG/L	0.32 <i>yes</i>
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	349	6:52	9	0.891	A BB	7835.	1.808 UG/L	0.57 <i>yes</i>
20	62	NOT FOUND							
21	117	995	12:26	21	1.000	A BB	256063.	50.000 UG/L	15.79
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	763	9:32	21	0.767	A VV	4332.	4.788 UG/L	1.51 <i>ND</i>
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	552	6:54	1	1.152	4 BB	155179.	51.015 UG/L	16.11
41	95	1171	14:38	21	1.177	A BB	221206.	48.961 UG/L	15.46
42	98	796	9:57	21	0.800	A BB	295870.	48.452 UG/L	15.30

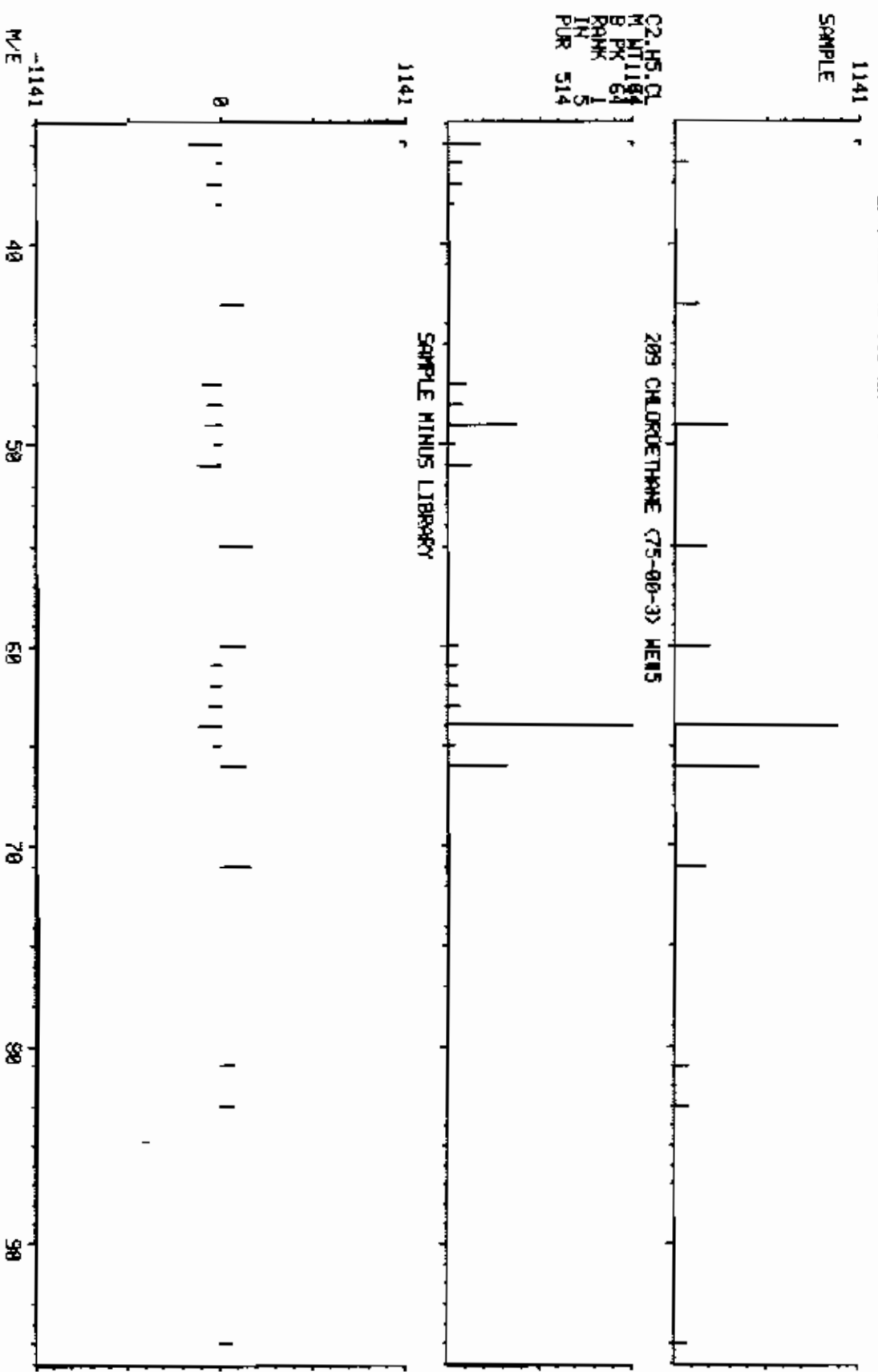
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	5:58	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:05		10.000			50.00		0.456	
3	1:10		10.000			50.00		0.783	
4	1:28		10.000			50.00		1.114	
5	1:39	0.99	10.000	0.03	5.63	50.00	0.059	0.524	0.11
6	2:41		5.000			50.00		1.197	
7	2:49		5.000			50.00		2.815	
8	3:01	1.01	10.000	0.05	5.06	50.00	0.014	0.141	0.10
9	7:40	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	3:36		5.000			50.00		1.197	
11	3:59		5.000			50.00		1.254	
12	4:40	1.01	5.000	0.16	1.03	50.00	0.040	1.925	0.02
13	4:58		10.000			50.00		0.347	
14	5:37		5.000			50.00		1.496	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	5:49		10.000			50.00		0.092	
16	6:13		5.000			50.00		2.770	
17	6:16		5.000			50.00		0.716	
18	6:29		5.000			50.00		0.627	
19	6:51	1.00	5.000	0.18	1.81	50.00	0.028	0.761	0.04
20	6:59		5.000			50.00		2.078	
21	12:26	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	7:56		5.000			50.00		0.428	
23	8:18		5.000			50.00		0.317	
24	8:52		5.000			50.00		0.826	
25	9:35		5.000			50.00		0.861	
26	9:31	1.00	15.000	0.05	4.79	50.00	0.017	0.177	0.10
27	10:01		5.000			50.00		0.707	
28	10:37		5.000			50.00		0.324	
29	10:54		5.000			50.00		0.327	
30	10:53		5.000			50.00		0.460	
31	11:31		15.000			50.00		0.097	
32	11:32		5.000			50.00		0.442	
33	12:29		5.000			50.00		0.892	
34	12:46		5.000			50.00		0.421	
35	12:59		5.000			50.00		0.615	
36	13:40		5.000			50.00		0.555	
37	13:44		5.000			50.00		0.872	
38	14:00		5.000			50.00		0.328	
39	19:08		5.000			50.00		0.474	
40	6:52	1.00	5.000	0.23	51.02	50.00	2.260	2.215	1.02
41	14:38	1.00	5.000	0.24	48.96	50.00	0.864	0.882	0.98
42	9:55	1.00	5.000	0.16	48.45	50.00	1.155	1.192	0.97

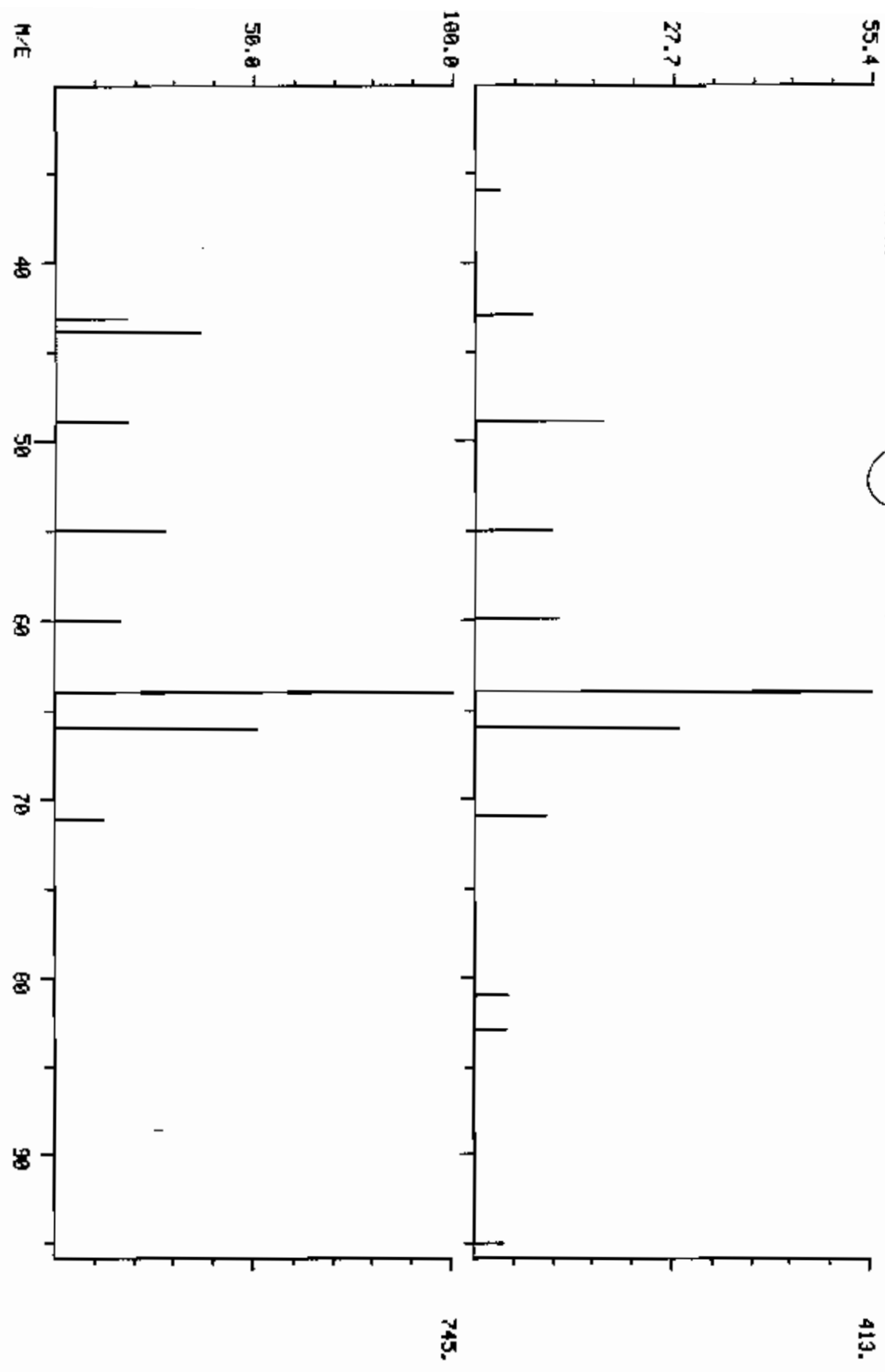
LIBRARY SEARCH
11/15/89 17:29:00 + 1:38
SAMPLE: 5 ML CC# 301917 ID# 738001-01 CS# 10410 ON 12
ENHANCED (5 150 2N 0T)

COMPUCHEN LABS

DATA: CN001917012 # 131
PAGE N/E: 64
R/C: 1173.



+ COMPUTER LABS
 DATE: 0801917B12 0131 BASE M/E: 64/ 64
 11/15/89 17:29:00 + 1:30
 SAMPLE: 5 ML CO# 301912 FOR 738001-01 CSA 18410 ON 12
 ENHANCED (S 150 2N) 209 CHLOROETHANE (75-00-3) NEWS
 RIC: 1173./ 2083.

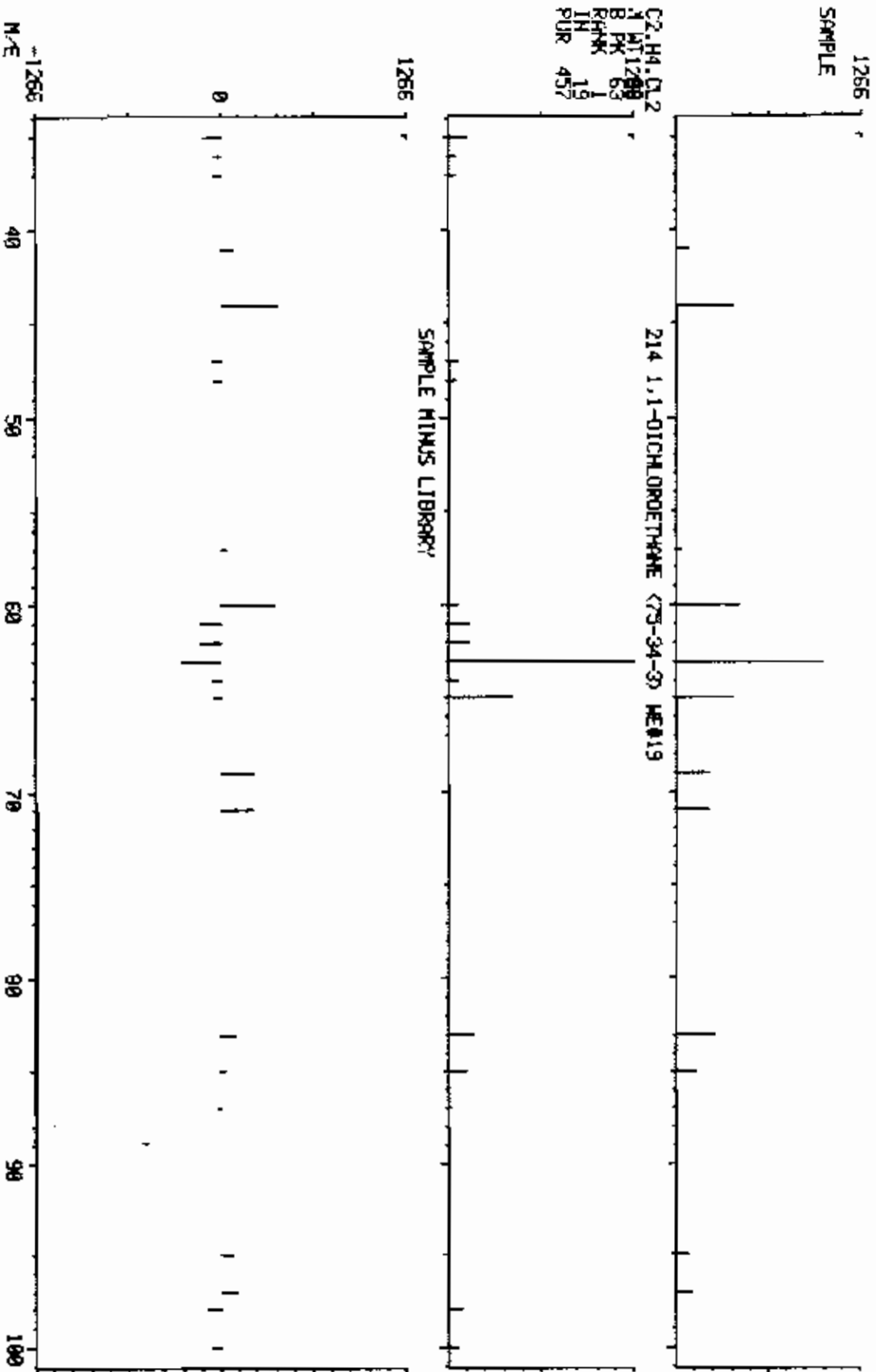


LIBRARY SEARCH
11/15/89 17:29:00 + 4:42
SAMPLE: 5 ML CCM 301917 ID# 739001-01 CS# 10410 ON 12
ENHANCED (S 158 2N 0T)

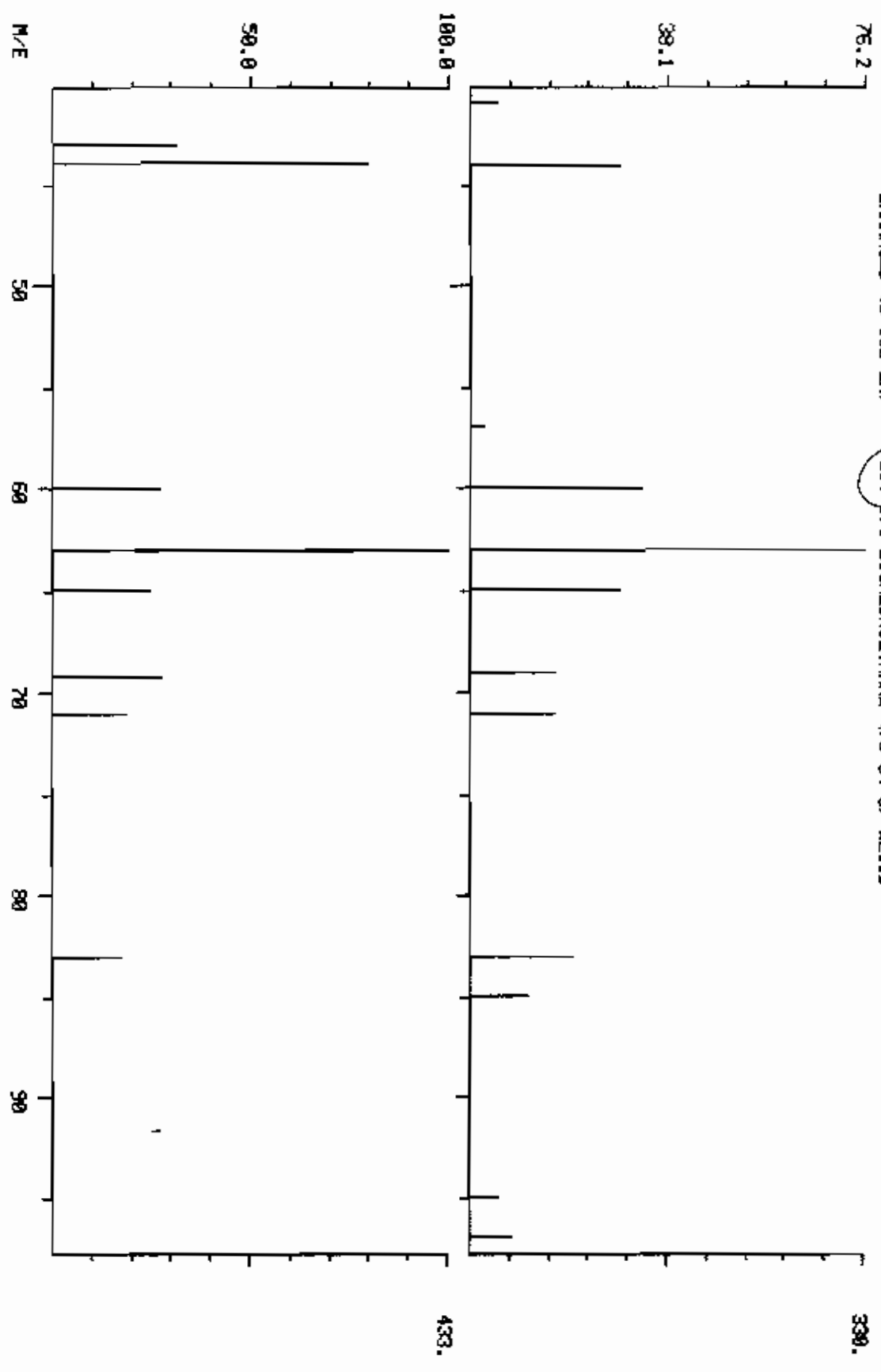
COMPUCHEN LABS

DATE: 08001917812 # 376

BASE M/E: 63
RIC: 1093.



DUAL MASS SPECTRUM
 11/15/89 17:29:00 + 4:42
 SAMPLE: 5 ML CO# 301917 (ID# 738001-01 CS# 10410 ON 12
 ENHANCED (S 158 2N) 214 1,1-DICHLOROETHANE (75-34-3) MEN19
 COMPUTER LABS
 DATA: 08001917812 0376
 BRSE M/E: 63/ 63
 RIC: 1093. / 1409.

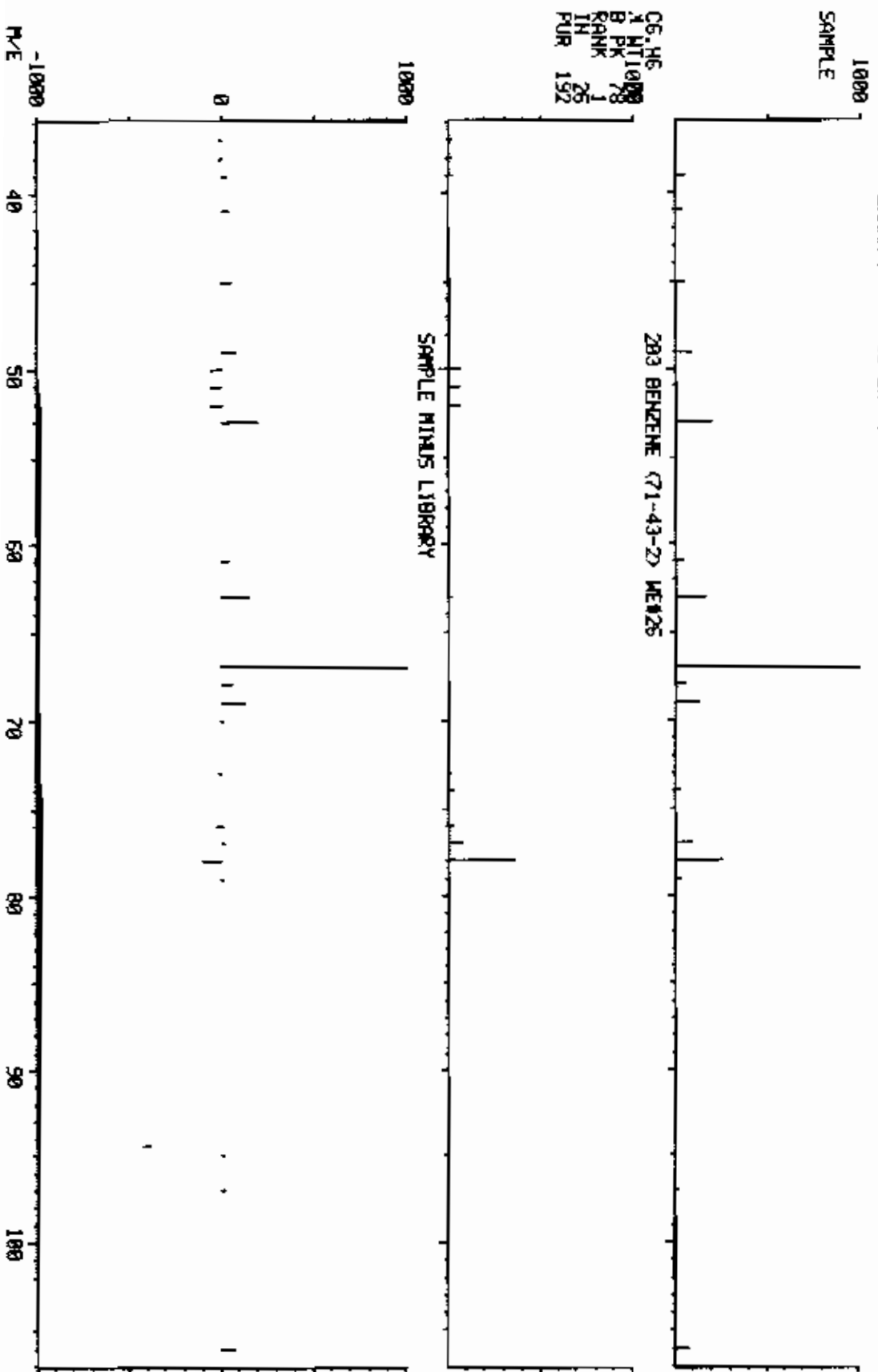


COMPUchem LABS
LIBRARY SEARCH
11/15/89 17:29:00 + 6:52
SAMPLE: 5 ML CCM 301917 100 738001-01 CS# 18410 ON 12
ENHANCED (S 150 2N 0T)

DATA: CND01917812 # 549

BASE M/E: 67
RIC: 7853.

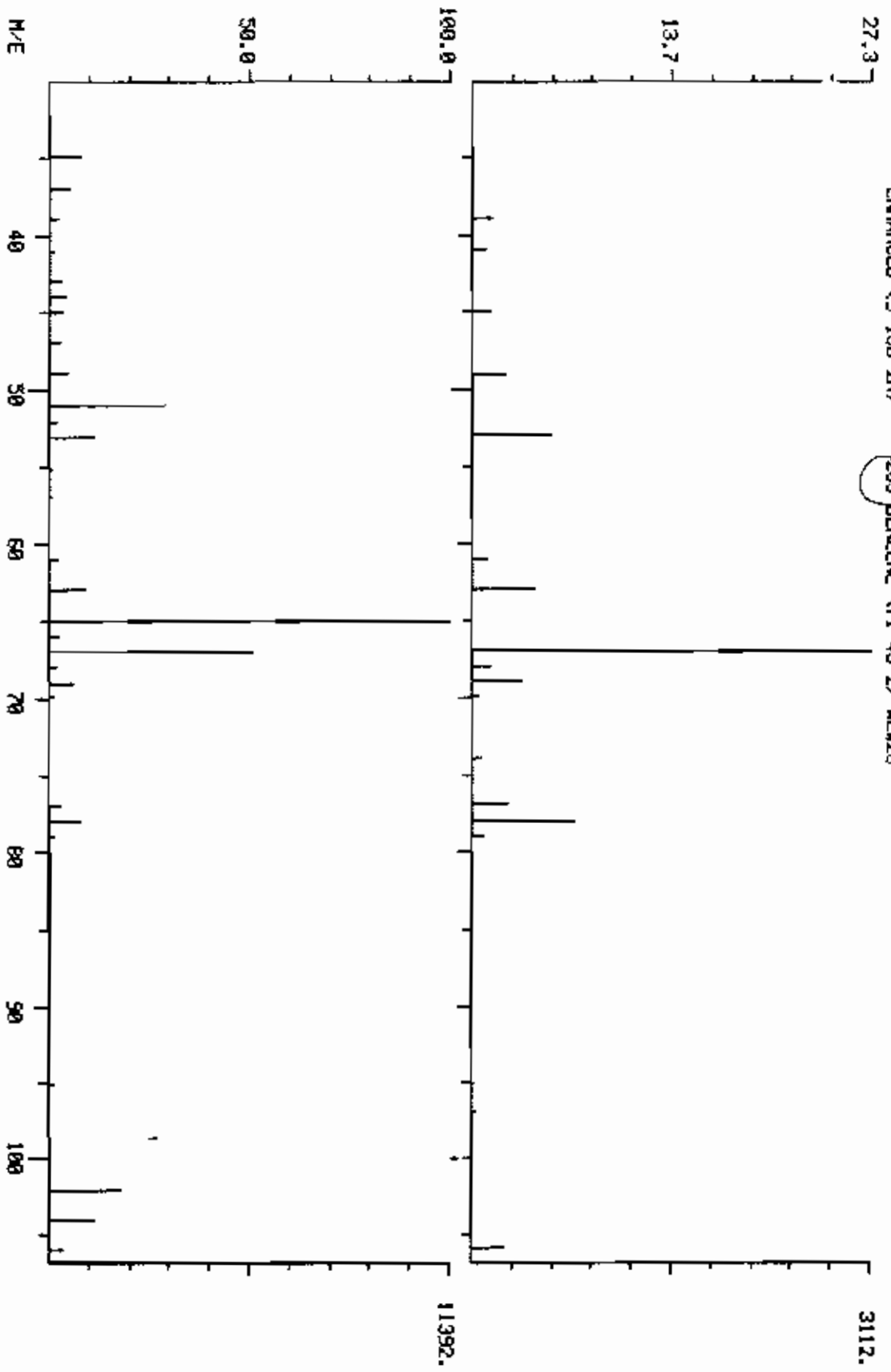
C6.H6
4 HIT 1000
B PK 78
RANK 1
IN 25
PUR 192



DUAL MASS SPECTRUM
11/15/89 17:29:00 + 6:52
SAMPLE: 5 ML CW 381917 ADN 738801-01 CSA 18410 ON 12
ENHANCED (5 158 ZN) 283 BENZENE (71-43-2) WLN26

COMPUCHEN LABS

DATA: C0801917812 #549 BASE M/E: 67/ 65
R1: 7863. / 33919.



LAB INSTRUCTIONS:

INORGANIC GET J DELIVERABLES. BILL AND SHIP AS CASE
CASE NO. RA 789 SDG 317. PLEASE PRESERVE METALS IN-HOUSE

RECEIPT DATE 11/14/89

CASE#: 18410 5

DUE DATE:

VOA
GC/MS WORKSHEET

COMPUCHEM#: 301917

J1 [] J31 [] D1 [] (:)
J21 [] J41 [] D21 [] (:)

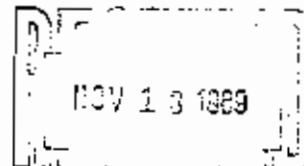
GC/MS; VOA; WATER EPA SOW 2/88

Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

SAMPLE ID#: 738001-01

GC/MS ANALYSIS

Amount Purged: [] SmIs or [] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename REG1115A12 Disk (11020)
Blank Filename CS81115A12 Disk ()
Standard Filename CS81115A12 Disk ()
Sample Filename CN00197617 Disk ()



ANALYST(S): Injection 11/14/89

Work-up 1452

GC/MS REVIEW

CONDITION CODE

OK

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

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

Disposition: [] Complete
[] Reinject Neat
[] Dilute (:)

Extraneous Peak Search Results:
of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required _____

COMMENTS:

GC/MS Review ~~11/14/89~~ Date 11/17/89 Auditor _____ Date _____

REPORT INTEGRATION
Final Reportable Package(s): CN-812 / Total # of Injections: 1

QA COMMENTS:

Initials _____ Date _____

FINAL REVIEW:

Initials _____ Date _____

AC1004 (05/89)

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT	REPORTED	DETECT.
					REPORT VALUE	AMOUNT (UG/L)	LIMIT (UG/L)
234	128	I	BROMOCHLOROMETHANE (IS)	477	68700	50.0	
221	90		CHLOROMETHANE				BDL 10
231	62		VINYL CHLORIDE				BDL 10
220	94		BROMOMETHANE				BDL 10
207	64		CHLOROETHANE			9.6	6J 10
216	96		1,1-DICHLOROETHENE				BDL 5
254	76		CARBON DISULFIDE				BDL 5
252	43		ACETONE (2-PROPANONE)			5.0	BDL 10
248	114	I	1,4-DIFLUOROBENZENE (IS)	616	284000	50.0	
222	84		METHYLENE CHLORIDE				BDL 5
226	96		TRANS-1,2-DICHLOROETHENE				BDL 5
214	63		1,1-DICHLOROETHANE			1.0	1J 5
257	43		VINYL ACETATE				BDL 10
237	96		CIS-1,2-DICHLOROETHENE				BDL 5
253	72		2-BUTANONE				BDL 10
211	83		CHLOROFORM				BDL 5
227	97		1,1,1-TRICHLOROETHANE				BDL 5
206	117		CARBON TETRACHLORIDE				BDL 5
203	78		BENZENE			1.0	2J 5
215	62		1,2-DICHLOROETHANE				BDL 5
270	117	I	OS-CHLOROBENZENE (IS)	995	256000	50.0	
229	130		TRICHLOROETHENE				BDL 5
217	63		1,2-DICHLOROPROPANE				BDL 5
212	83		BROMODICHLOROMETHANE				BDL 5
218	75		CIS-1,3-DICHLOROPROPENE				BDL 5
256	43		4-METHYL-2-PENTANONE			4.0	BDL 10
225	92		TOLUENE				BDL 5
250	75		TRANS-1,3-DICHLOROPROPENE				BDL 5
228	97		1,1,2-TRICHLOROETHANE				BDL 5
224	164		TETRACHLOROETHENE				BDL 5
255	43		2-HEXANONE				BDL 10
208	129		DIBROMOCHLOROMETHANE , 124-4				BDL 5
207	112		CHLOROBENZENE				BDL 5
219	106		ETHYLBENZENE				BDL 5
330	106		M, P-XYLENE				BDL 5
239	106		O-XYLENE				BDL 5
251	104		STYRENE				BDL 5
205	173		BROMOFORM				BDL 5
223	83		1,1,2,2-TETRACHLOROETHANE				BDL 5
258	65	B	OS-1,2-DICHLOROETHANE WE#57			51.0	102. %
247	95	B	BROMOFLUOROBENZENE			49.0	98. %
233	98	S	OS-TOLUENE WE#59			48.4	97. %
289	106		XYLENES (TOTAL)				BDL 5

CORRECTED/REVIEWED BY SDW Jones
(GC/MS DATA) REVIEWER)DATE 11-17-89

CMP	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:							
		3979.	2090	608700.		316.6	316.

CORRECTED/REVIEWED BY S. D. Wagoner
 (GC/MS DATA) REVIEWER

DATE 11-17-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLORDETHANE WE#57	51.0	50.0	102.	76-114	X	
41	247	BROMOFLUOROBENZENE	49.0	50.0	98.	86-115	X	
42	233	D8-TOLUENE WE#59	48.4	50.0	97.	88-110	X	

* ADVISORY SURROGATE ONLY

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

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION 8

CORRECTED/REVIEWED BY SDW/que
(GC/MS DATA REVIEWER)

DATE 11-17-82

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-02

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 301910
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN001910B12
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001-02

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 301910
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN001910B12
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column (pack/cap) CAP Dilution Factor: 1.0

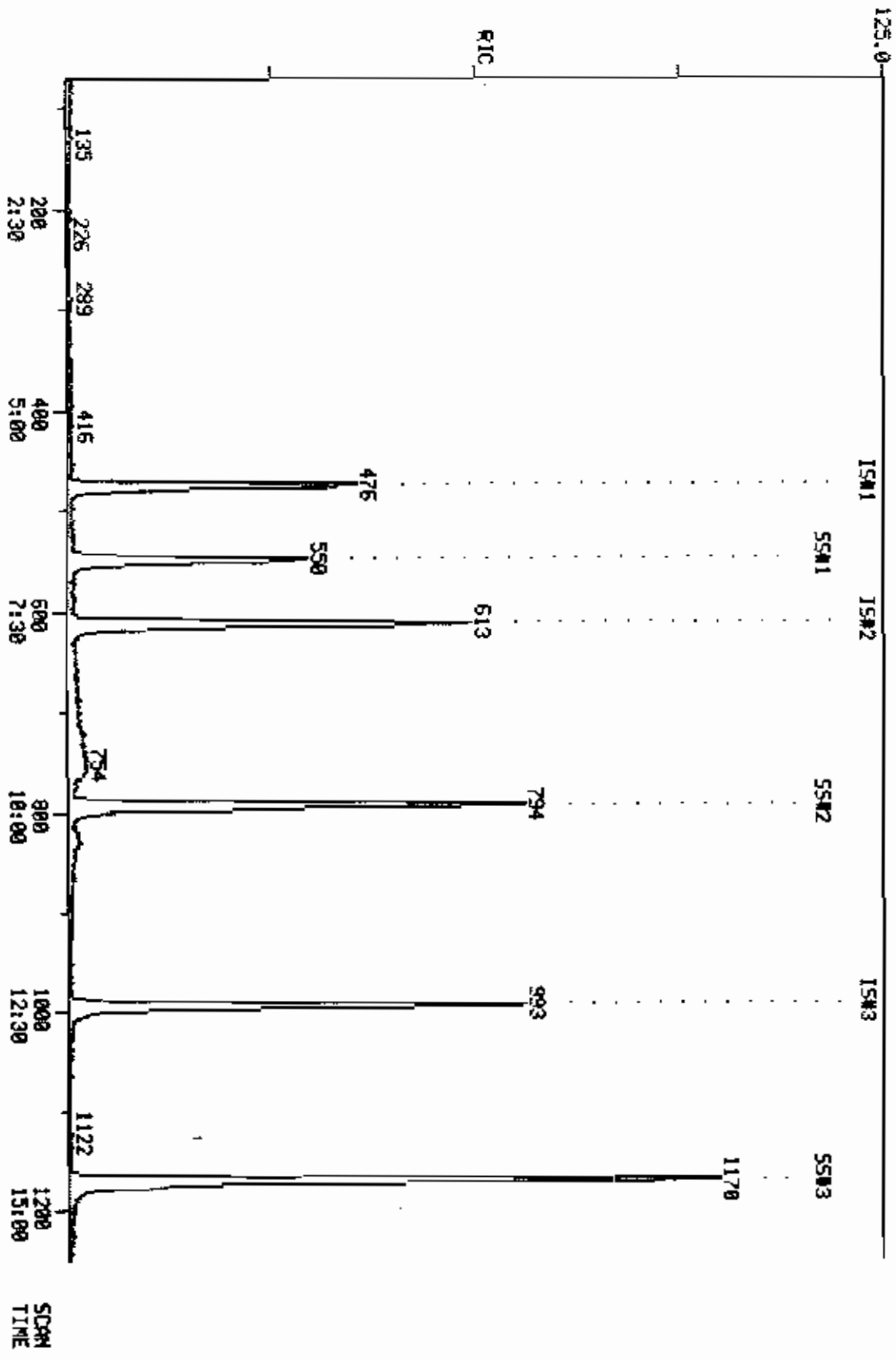
Number TICs found: 0 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

RIC
11/15/89 16:56:09
SAMPLE: 5 ML CN# 301910 ID# 738001-02 CS# 19410 ON 12
COND.: :

COMPUchem LABS
COMPUchem DATA: CH001910012 SCANS 71 TO 1256

183040.



QUANTITATION REPORT FILE: CN001910B12
 DATA: CN001910B12.TI
 11/15/89 14:56:00
 SAMPLE: 5 ML CC# 301910 I0# 738001-02 CS# 18410 ON 12
 CONDS.:
 SUBMITTED BY: 12 ANALYST: 1457

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

- NO NAME
- 1 *234 BROMOCHLOROMETHANE (18) <75-97-5> WE#1
- 2 221 CHLOROMETHANE <74-87-3> WE#2
- 3 231 VINYL CHLORIDE <75-01-4> WE#3
- 4 220 BROMOMETHANE <78-83-9> WE#4
- 5 209 CHLOROETHANE <75-00-3> WE#5
- 6 216 1,1-DICHLOROETHENE <75-35-4> WE#8
- 7 254 CARBON DISULFIDE <75-15-0> WE#9
- 8 252 ACETONE (2-PROPANONE) <67-64-1> WE#13
- 9 *248 1,4-DIFLUOROBENZENE (18) <540-36-3> WE#14
- 10 222 METHYLENE CHLORIDE <75-09-2> WE#16
- 11 226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
- 12 214 1,1-DICHLOROETHANE <75-34-3> WE#19
- 13 257 VINYL ACETATE <108-05-4> WE#20
- 14 237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
- 15 253 2-BUTANONE <78-93-3> WE#22
- 16 211 CHLOROFORM <67-66-2> WE#23
- 17 227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
- 18 206 CARBON TETRACHLORIDE <56-23-5> WE#25
- 19 203 BENZENE <71-43-2> WE#26
- 20 215 1,2-DICHLOROETHANE <107-06-2> WE#27
- 21 *270 O5-CHLOROBENZENE (18) <XXX-XX-X> WE#29
- 22 229 TRICHLOROETHENE <79-01-6> WE#30
- 23 217 1,2-DICHLOROPROPANE <78-87-5> WE#31
- 24 212 BROMODICHLOROMETHANE <75-27-4> WE#33
- 25 218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
- 26 256 4-METHYL-2-PENTANONE <108-01-1> WE#36
- 27 225 TOLUENE <108-88-3> WE#37
- 28 250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
- 29 228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
- 30 224 TETRACHLOROETHENE <127-18-4> WE#41
- 31 255 2-HEXANONE <591-78-6> WE#42
- 32 208 DIBROMOCHLOROMETHANE , 124-46-1> WE#43
- 33 207 CHLOROBENZENE <108-90-7> WE#45
- 34 219 ETHYLBENZENE <100-41-4> WE#47
- 35 330 M,P-XYLENE <133-02-7> WE#48
- 36 239 O-XYLENE <133-02-7> WE#49
- 37 251 STYRENE <100-42-5> WE#50
- 38 205 BROMOFORM <75-25-2> WE#51
- 39 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
- 40 #258 O4-1,2-DICHLOROETHANE WE#57
- 41 #247 BROMOFLUOROBENZENE <460-00-4> WE#58
- 42 #233 O8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	476	5:57	1	1.000	A B8	66535.	50.000 UQ/L	16.24
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RAT	METH	AREA(HGHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	240	3:00	1	0.504	A VB	544.	2.897 UG/L	0.94 ND
9	114	613	7:40	9	1.000	A BB	266890.	50.000 UG/L	16.24
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	993	12:25	21	1.000	A BD	244160.	50.000 UG/L	16.24
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	919	11:29	21	0.925	A*VV	878.	1.850 UG/L	0.60 ND
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	550	6:52	1	1.155	A BB	153098.	51.942 UG/L	16.87
41	95	1171	14:38	21	1.179	A BB	220358.	51.151 UG/L	16.62
42	98	794	9:55	21	0.800	A BB	291194.	50.011 UG/L	16.25

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	5:58	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:05		10.000			50.00		0.456	
3	1:10		10.000			50.00		0.783	
4	1:28		10.000			50.00		1.114	
5	1:39		10.000			50.00		0.524	
6	2:41		5.000			50.00		1.197	
7	2:49		5.000			50.00		2.815	
8	3:01	1.00	10.000	0.05	2.90	50.00	0.008	0.141	0.06
9	7:40	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	3:36		5.000			50.00		1.197	
11	3:59		5.000			50.00		1.254	
12	4:40		5.000			50.00		1.925	
13	4:58		10.000			50.00		0.347	
14	5:37		5.000			50.00		1.496	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	5:49		10.000			50.00		0.092	
16	6:13		5.000			50.00		2.770	
17	6:16		5.000			50.00		0.716	
18	6:29		5.000			50.00		0.627	
19	6:51		5.000			50.00		0.761	
20	6:59		5.000			50.00		2.078	
21	12:26	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	7:56		5.000			50.00		0.428	
23	8:18		5.000			50.00		0.317	
24	8:52		5.000			50.00		0.826	
25	9:35		5.000			50.00		0.861	
26	9:31		15.000			50.00		0.177	
27	10:01		5.000			50.00		0.707	
28	10:37		5.000			50.00		0.324	
29	10:54		5.000			50.00		0.327	
30	10:53		5.000			50.00		0.440	
31	11:31	1.00	15.000	0.06	1.85	50.00	0.004	0.097	0.04
32	11:32		5.000			50.00		0.442	
33	12:29		5.000			50.00		0.892	
34	12:46		5.000			50.00		0.421	
35	12:59		5.000			50.00		0.615	
36	13:40		5.000			50.00		0.555	
37	13:44		5.000			50.00		0.872	
38	14:00		5.000			50.00		0.328	
39	15:08		5.000			50.00		0.474	
40	6:52	1.00	5.000	0.23	51.94	50.00	2.001	2.215	1.04
41	14:38	1.00	5.000	0.24	51.15	50.00	0.903	0.882	1.02
42	9:59	1.00	5.000	0.16	50.01	50.00	1.193	1.192	1.00

LAB INSTRUCTIONS:
INORGANIC6 GET J DELIVERABLES. BILL AND SHIP AS CASE
CASE NO. RA 789 SDG 317. PLEASE PRESERVE METALS IN-HOUSE

RECEIPT DATE 11/14/89 CASE#: 18410 5 DUE DATE:
VOA J1 J J31 J D1 J C 11)
GC/MS WORKSHEET COMPUCHER#: 301910 J21 J J41 J D21 J C 11)

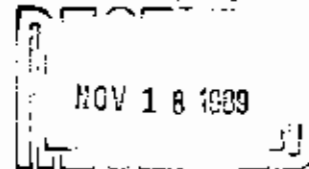
GC/MS; VOA; WATER EPA SOW 2/88

Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

SAMPLE ID#: 736001-02

GC/MS ANALYSIS

Amount Purged: 5mls or Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BPSA115A12 Disk (11020)
Blank Filename BA CESA115A12 Disk ()
Standard Filename CSA115A12 Disk ()
Sample Filename CN001910B12 Disk ()



ANALYST(S): Injection ALP/1457 Work-up 1932/1/1457

GC/MS REVIEW

CONDITION CODE

OK

Entry Codes OK, J8, SM, SL, SH, JA, DA

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

Disposition: Complete
 Reinject Neat
 Dilute ()

Extraneous Peak Search Results:
of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required _____

COMMENTS:

GC/MS Review DU/1457 Date 11/17/89 Auditor _____ Date _____

REPORT INTEGRATION
Final Reportable Package(s): CN - B12 / _____ Total # of Injections: 1

QA COMMENTS:

Initials _____ Date _____

FINAL REVIEW: Initials _____ Date _____

ACI004 (05/89)

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	474	46900	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	44	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			2.7	BDL	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	613	267000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	76	BENZENE				BDL	5
219	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	DS-CHLOROBENZENE (IS)	993	244000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	79	CIS-1,3-DICHLOROPROPENE				BDL	5
236	43	4-METHYL-2-FENTANONE				BDL	10
225	92	TOLUENE				BDL	5
230	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
235	43	2-HEXANONE			2.8	BDL	10
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			51.7	104. X	
247	95 S	BROMOFLUOROBENZENE			51.2	102. X	
233	98 S	D8-TOLUENE WE#59			50.0	100. X	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY SDWagne
(GC/MS DATA REVIEWER)DATE 11-17-89

CMP				QUANT	REPORTED	DETECT.		
#	M/E	F	COMPOUND NAME	SCAN	AREA	REPORT	AMOUNT	LIMIT
						VALUE	(UG/L)	(UG/L)
299	96		1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:								
		3979.		2082	577500.	307.8		311.

CORRECTED/REVIEWED BY SDW Jones
(GC/MS DATA REVIEWER)DATE 11-12-87

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	51.9	50.0	104.	76-114	X	
41	247	BROMOFLUOROBENZENE	91.2	50.0	102.	86-115	X	
42	233	D8-TOLUENE WE#59	50.0	50.0	100.	88-110	X	

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

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} =$$

$$\frac{5000 \text{ UL}}{5000. \text{ (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION 8

CORRECTED/REVIEWED BY SDI/AGM
(QC/MS DATA) REVIEWER)

DATE 11-17-89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-03

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: Q5
 Matrix: (soil/water) WATER Lab Sample ID: 301918
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN001918B12
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001-03

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
Matrix: (soil/water) WATER Lab Sample ID: 301918
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN001918B12
Level: (low/med) LOW Date Received: 11/14/89
% Moisture: not dec. _____ Date Analyzed: 11/15/89
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

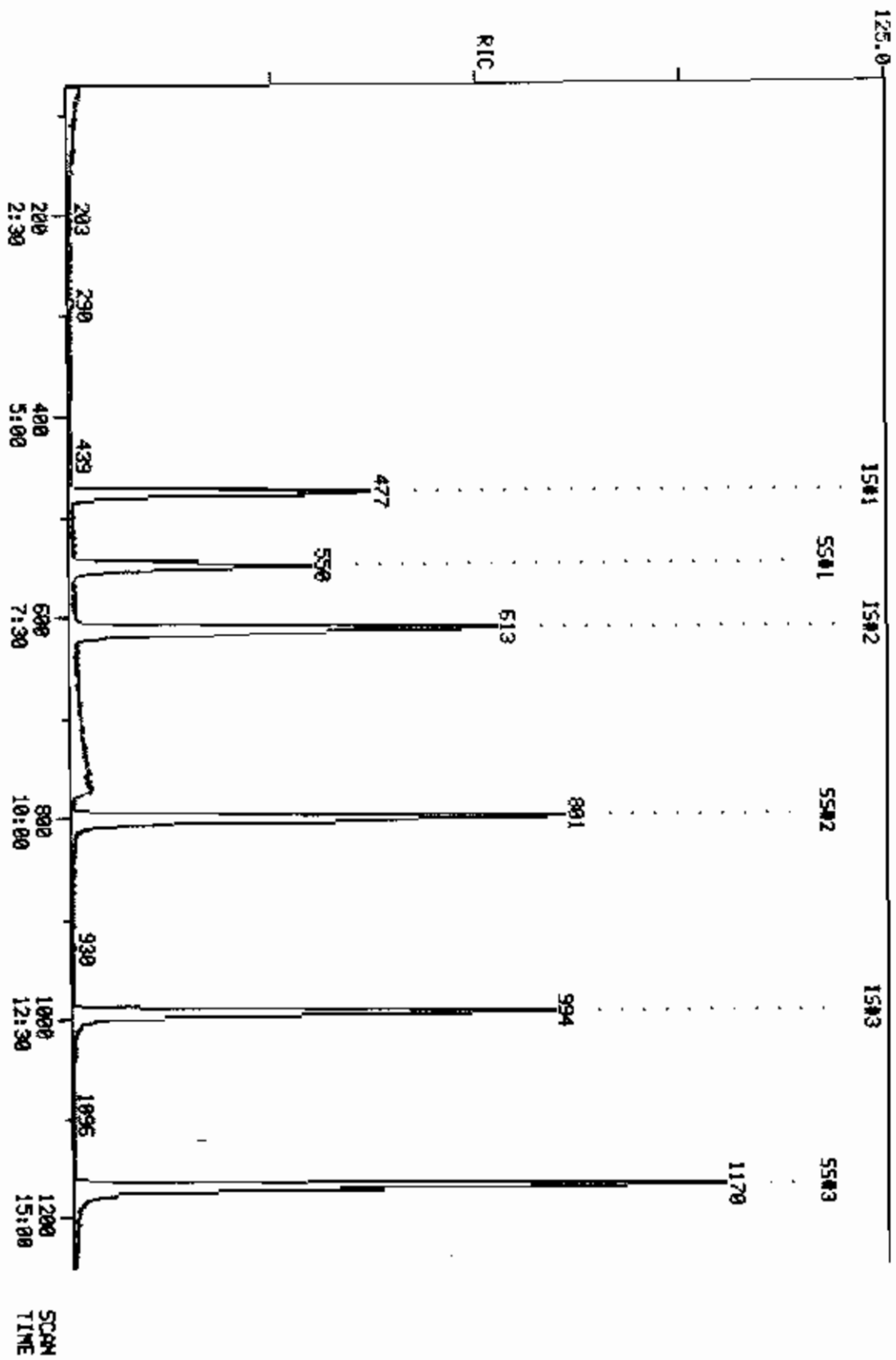
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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COMPUCHEN LABS

COMPUCHEN DATA: CH801918812 SCANS 72 TO 1250

RIC
11/15/89 18:09:00
SAMPLE: 5 ML CCM 301918 ID# 730601-03 CS# 10410 QM 12
COMDS: :

104320.



QUANTITATION REPORT FILE: CN001918B12 /
 DATA: CN001918B12.TI
 11/15/89 18:09:00
 SAMPLE: 5 ML CC# 301918 / ID# 738001-03 / CS# 18410 / ON 12
 CONDS.:
 SUBMITTED BY: 12 ANALYST: 1457

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (18) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 O5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 BTYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1;2-DICHLOROETHANE WE#57
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	*233 O5-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	%TOT
1	128	477	5:58	1	1.000	A 88	69022.	50.000 UQ/L	16.27
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	242	3:01	1	0.507	A#VB	1224.	6.284 UG/L	2.05ND
9	114	613	7:40	9	1.000	A BB	286658.	50.000 UG/L	16.27
10	84	290	3:37	1	0.608	A BB	2307.	1.396 UG/L	0.45 <i>yes</i>
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	993	12:25	21	1.000	A BV	259166.	50.000 UG/L	16.27
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	761	9:31	21	0.766	A WV	1161.	1.267 UG/L	0.41ND
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	550	6:52	1	1.153	A BB	155878.	50.980 UG/L	16.59
41	95	1170	14:37	21	1.178	A BB	219618.	48.027 UG/L	15.63
42	98	801	10:01	21	0.807	A BB	304721.	49.304 UG/L	16.05

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	5:58	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:05		10.000			50.00		0.456	
3	1:10		10.000			50.00		0.783	
4	1:28		10.000			50.00		1.114	
5	1:39		10.000			50.00		0.524	
6	2:41		5.000			50.00		1.197	
7	2:49		5.000			50.00		2.813	
8	3:01	1.00	10.000	0.05	6.28	50.00	0.018	0.141	0.13
9	7:40	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	3:36	1.01	5.000	0.12	1.40	50.00	0.033	1.197	0.03
11	3:59		5.000			50.00		1.254	
12	4:40		5.000			50.00		1.929	
13	4:58		10.000			50.00		0.347	
14	5:37		5.000			50.00		1.496	

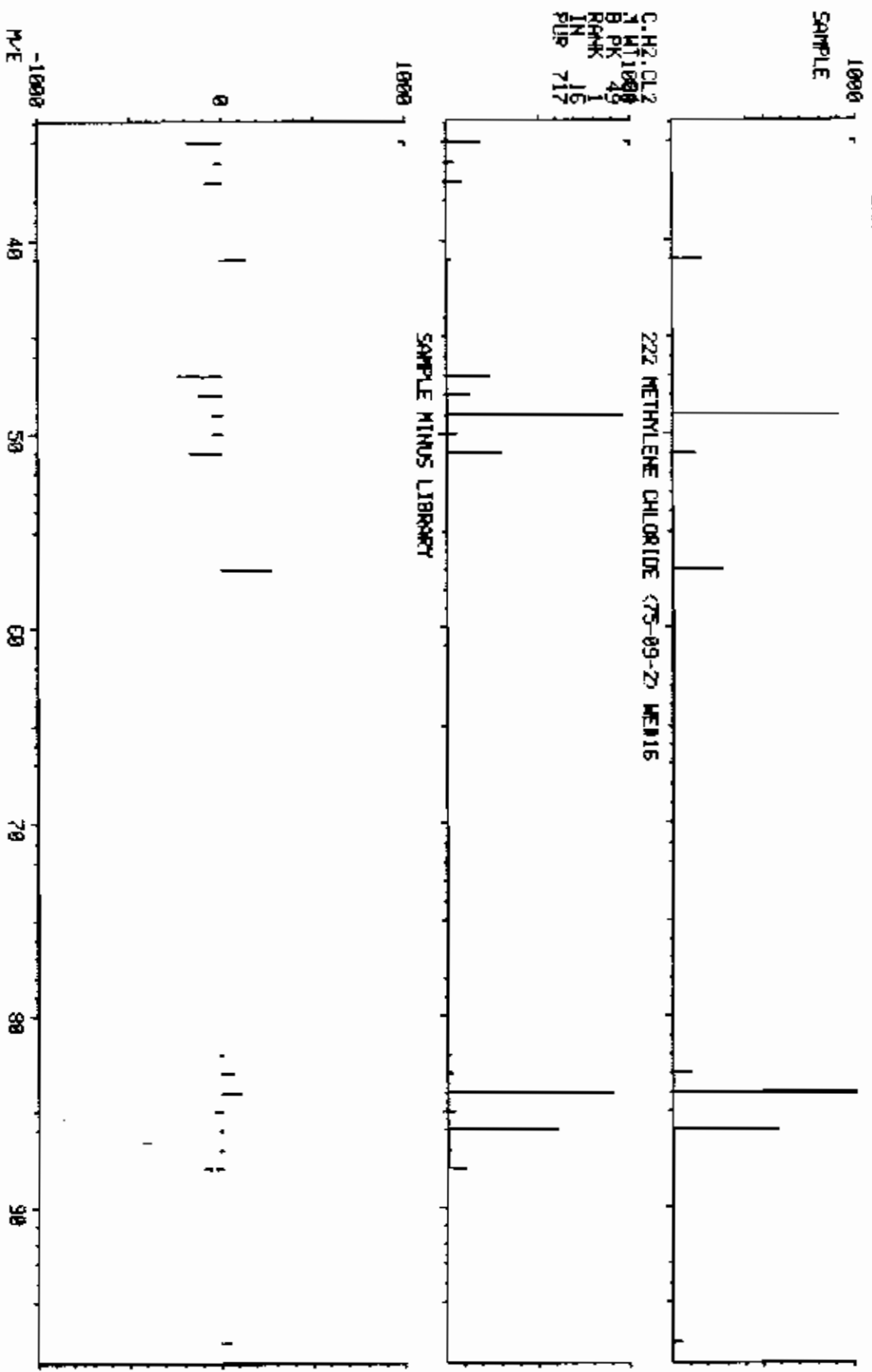
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	5:49		10.000			50.00		0.092	
16	6:13		5.000			50.00		2.770	
17	6:16		5.000			50.00		0.716	
18	6:29		5.000			50.00		0.627	
19	6:51		5.000			50.00		0.761	
20	6:59		5.000			50.00		2.078	
21	12:26	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	7:56		5.000			50.00		0.428	
23	8:18		5.000			50.00		0.317	
24	8:52		5.000			50.00		0.826	
25	9:35		5.000			50.00		0.861	
26	9:31	1.00	15.000	0.05	1.27	50.00	0.004	0.177	0.03
27	10:01		5.000			50.00		0.707	
28	10:37		5.000			50.00		0.324	
29	10:54		5.000			50.00		0.327	
30	10:53		5.000			50.00		0.460	
31	11:31		15.000			50.00		0.097	
32	11:32		5.000			50.00		0.442	
33	12:29		5.000			50.00		0.892	
34	12:46		9.000			50.00		0.421	
35	12:59		5.000			50.00		0.615	
36	13:40		5.000			50.00		0.599	
37	13:44		5.000			50.00		0.872	
38	14:00		5.000			50.00		0.328	
39	15:08		5.000			50.00		0.474	
40	6:52	1.00	5.000	0.23	50.98	50.00	2.258	2.215	1.02
41	14:38	1.00	5.000	0.24	48.03	50.00	0.847	0.882	0.96
42	9:55	1.01	5.000	0.14	49.30	50.00	1.174	1.192	0.99

LIBRARY SEARCH
11/15/89 18:09:00 + 3:37
SAMPLE: 5 ML CCL 301918 ID# 738001-03 CS# 18418 DN 12
ENHANCED (5 158 ZN 07)

COMPUchem LABS

DATA: CM001918B12 # 290

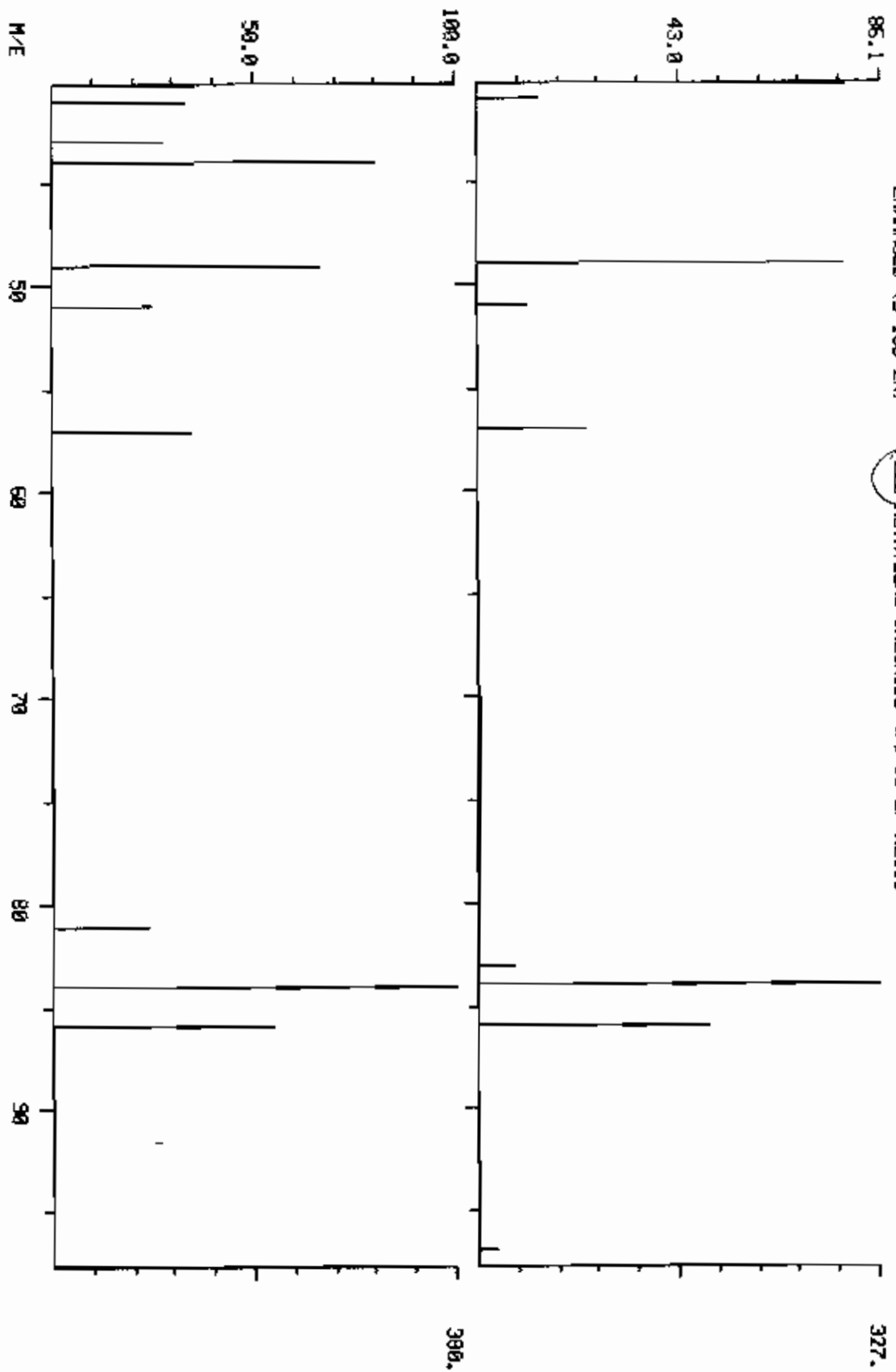
BASE N/E: 84
RIC: 1835.



DUAL MASS SPECTRUM
11/15/83 18:09:00 + 3:37
SAMPLE: 5 ML C00 381918
ENHANCED (S 150 ZN)

COMPUCHEN LABS

DATA: 08001918812 #290
BASE M/E: 84/ 84
RIC: 1895.7 1603.



LAB INSTRUCTIONS:

INORGANICS GET J DELIVERABLES. BILL AND SHIP AS CASE
CASE NO. RA 789 SOG 317. PLEASE PRESERVE METALS IN-HOUSE

RECEIPT DATE 11/14/89 CASE#: 18410 5 DUE DATE:

VOA J1 J J31 J DC 1 ()
GC/MS WORKSHEET COMPUCHEN#: 301918 J21 J J41 J D21 J ()

GC/MS; VOA; WATER EPA SOW 2/88

Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

SAMPLE ID#: 738001-03

GC/MS ANALYSIS

Amount Purged: [] 5mls or [] Dilution _____ ul/5000ul-Sparged
Internal Standard Volume Added _____ 5 ul
Surrogate Standard Volume Added _____ 5 ul
BFB Filename BFB91115A12 Disk (11070)
Blank Filename CS91115A12 Disk ()
Standard Filename CS91115A12 Disk ()
Sample Filename CN001918B12 Disk ()

NOV 15 1989

ANALYST(S): Injection LLG 11/15/89 Work-up WSE Hoptoni

GC/MS REVIEW

CONDITION
CODE

OK

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

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

Disposition: [] Complete
[] Reinject Neat
[] Dilute ()

Extraneous Peak Search Results:
of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required _____

COMMENTS:

GC/MS Review SDU Date 11/17/89 Auditor _____ Date ____/____/____

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CN - B12

QA COMMENTS:

Initials _____ Date ____/____/____

FINAL REVIEW: Initials _____ Date ____/____/____

AC1004 (05/89)

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

COMP #	M/E	P	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128	I	BROMOCHLOROMETHANE (IS)	477	69000	50.0	BDL	10
221	50		CHLOROMETHANE				BDL	10
231	62		VINYL CHLORIDE				BDL	10
220	94		BROMOMETHANE				BDL	10
209	64		CHLOROETHANE				BDL	10
216	96		1,1-DICHLOROETHENE				BDL	5
254	76		CARBON DISULFIDE				BDL	5
252	43		ACETONE (2-PROPANONE)			4.3	BDL 4.3	10
246	114	I	1,4-DIFLUOROBENZENE (IS)	613	267000	50.0		5
222	84		METHYLENE CHLORIDE			1.4	1.4	5
226	96		TRANS-1,2-DICHLOROETHENE				BDL	5
214	63		1,1-DICHLOROETHANE				BDL	5
257	43		VINYL ACETATE				BDL	10
237	96		CIS-1,2-DICHLOROETHENE				BDL	5
253	72		2-BUTANONE				BDL	10
211	83		CHLOROFORM				BDL	5
227	97		1,1,1-TRICHLOROETHANE				BDL	5
206	117		CARBON TETRACHLORIDE				BDL	5
203	78		BENZENE				BDL	5
215	62		1,2-DICHLOROETHANE				BDL	5
270	117	I	D5-CHLOROBENZENE (IS)	993	259000	50.0		5
229	130		TRICHLOROETHENE				BDL	5
217	63		1,2-DICHLOROPROPANE				BDL	5
212	83		BROMODICHLOROMETHANE				BDL	5
218	73		CIS-1,3-DICHLOROPROPENE				BDL	5
256	43		4-METHYL-2-PENTANONE			1.3	BDL 1.3	10
225	92		TOLUENE				BDL	5
250	75		TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97		1,1,2-TRICHLOROETHANE				BDL	5
224	164		TETRACHLOROETHENE				BDL	5
255	43		2-HEXANONE				BDL	10
208	129		DIBROMOCHLOROMETHANE .124-4				BDL	5
207	112		CHLOROBENZENE				BDL	5
219	106		ETHYLBENZENE				BDL	5
330	106		M,P-XYLENE				BDL	5
239	106		O-XYLENE				BDL	5
251	104		BTYRENE				BDL	5
205	173		BROMOFORM				BDL	5
223	83		1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65	B	D4-1,2-DICHLOROETHANE WE#87			51.0	102. %	
247	95	B	BROMOFLUOROBENZENE			48.0	96. %	
233	98	B	D8-TOLUENE WE#59			49.3	99. %	
289	106		XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY SDI Waqar
(QC/MS DATA REVIEWER)DATE 11-17-89

CMP	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)	
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL		5
CHECKSUMS:								
		3979.	2083	61300.	307.3		305.	

CORRECTED/REVIEWED BY SDU Howe
(GC/MS DATA REVIEWER)DATE 11-17-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLORDETHANE WE#57	31.0	50.0	102.	76-114	X	
41	247	BROMOFLUOROBENZENE	48.0	50.0	96.	86-115	X	
42	233	DB-TOLUENE WE#59	49.3	50.0	99.	88-110	X	

* ADVISORY SURROGATE ONLY

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

=====

CORRECTION FACTOR CALCULATION:

5000 UL

----- =
VOLUME OF SAMPLE PURGED (UL)

5000 UL

5.000 ML

5000. (UL)

1.00 =

5.000 (ML)

=====

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

=====

VERSION 8

CORRECTED/REVIEWED BY SDWagner
(QC/MS DATA REVIEWER)

DATE 11-17-89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-05

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 10410 SAS No.: _____ SDG No.: 05

Matrix: (soil/water) WATER Lab Sample ID: 301937

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN001937B12

Level: (low/med) LOW Date Received: 11/14/89

% Moisture: not dec. _____ Date Analyzed: 11/15/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

718001-05

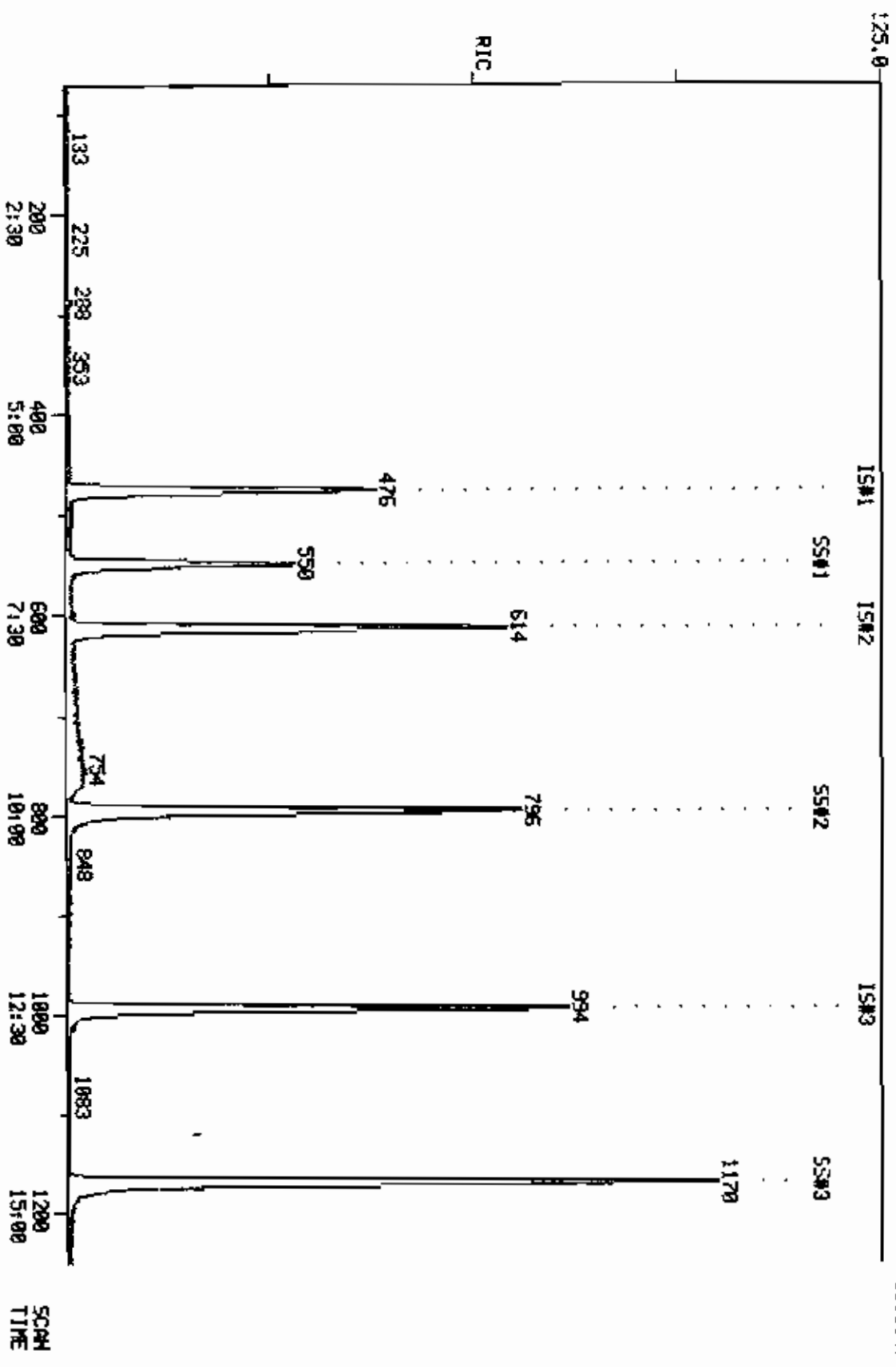
Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 301937
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN001937B12
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

RIC
 11/15/89 19:19:08
 SAMPLE: 5 ML CCM 301937 IOW 738001-05 CS# 18410 ON 12
 COND.S:
 183600.

COMPUCHEN LABS
 COMPUCHEN DATA: CN901937B12 SCANS 72 TO 1259



QUANTITATION REPORT FILE: CN001937812 ✓
 DATA: CN001937812.TI
 11/19/89 19:19:00
 SAMPLE: 5 ML CC# 301937/ID# 738001-05/CS# 18410/DN 12
 CONDS.:
 SUBMITTED BY: 12 ANALYST: 1457

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (18) (75-97-5) WE#1
2	221 CHLOROMETHANE (74-87-3) WE#2
3	231 VINYL CHLORIDE (75-01-4) WE#3
4	220 BROMOMETHANE (78-83-9) WE#4
5	209 CHLOROETHANE (75-00-3) WE#5
6	216 1,1-DICHLOROETHENE (75-35-4) WE#8
7	254 CARBON DISULFIDE (75-15-0) WE#9
8	252 ACETONE (2-PROPANONE) (67-64-1) WE#13
9	*248 1,4-DIFLUOROBENZENE (15) (540-36-3) WE#14
10	222 METHYLENE CHLORIDE (75-09-2) WE#16
11	226 TRANS-1,2-DICHLOROETHENE (156-60-5) WE#17
12	214 1,1-DICHLOROETHANE (75-34-3) WE#19
13	257 VINYL ACETATE (108-05-4) WE#20
14	237 CIS-1,2-DICHLOROETHENE (156-59-2) WE#21
15	253 2-BUTANONE (78-93-3) WE#22
16	211 CHLOROFORM (67-66-2) WE#23
17	227 1,1,1-TRICHLOROETHANE (71-55-6) WE#24
18	206 CARBON TETRACHLORIDE (56-23-5) WE#25
19	203 BENZENE (71-43-2) WE#26
20	215 1,2-DICHLOROETHANE (107-06-2) WE#27
21	*270 O5-CHLOROBENZENE (18) (XXX-XX-X) WE#29
22	229 TRICHLOROETHENE (79-01-6) WE#30
23	217 1,2-DICHLOROPROPANE (78-87-5) WE#31
24	212 BROMODICHLOROMETHANE (75-27-4) WE#33
25	218 CIS-1,3-DICHLOROPROPENE (10061-1-5) WE#35
26	256 4-METHYL-2-PENTANONE (108-01-1) WE#36
27	225 TOLUENE (108-88-3) WE#37
28	250 TRANS-1,3-DICHLOROPROPENE (10061-02-6) WE#38
29	228 1,1,2-TRICHLOROETHANE (79-00-5) WE#39
30	224 TETRACHLOROETHENE (127-18-4) WE#41
31	255 2-HEXANONE (591-78-6) WE#42
32	208 DIBROMOCHLOROMETHANE (124-48-1) WE#43
33	207 CHLOROBENZENE (108-90-7) WE#45
34	219 ETHYLBENZENE (100-41-4) WE#47
35	330 M,P-XYLENE (133-02-7) WE#48
36	239 O-XYLENE (133-02-7) WE#49
37	251 STYRENE (100-42-5) WE#50
38	205 BROMOFORM (75-29-2) WE#51
39	223 1,1,2,2-TETRACHLOROETHANE (79-34-5) WE#54
40	*258 O4-1,2-DICHLOROETHANE WE#57
41	*247 BROMOFLUOROBENZENE (460-00-4) WE#58
42	*233 O8-TOLUENE WE#59

NO	M/E	ECAM	TIME	REF	RTT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	476	5:37	1	1.000	A 88	70498.	50.000 UG/L	16.66
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	245	3:04	1	0.515	A*VV	678.	3.408 UG/L	1.14ND
9	114	614	7:40	9	1.000	A BB	295134.	50.000 UG/L	16.66
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	994	12:25	21	1.000	A BB	263563.	50.000 UG/L	16.66
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	760	9:30	21	0.765	A*BV	1898.	2.038 UG/L	0.68ND
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	920	11:30	21	0.926	A*BV	693.	1.353 UG/L	0.45ND
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	550	6:52	1	1.155	A BB	151885.	48.634 UG/L	16.20
41	95	1170	14:37	21	1.177	A BV	219020.	47.097 UG/L	15.69
42	98	796	9:57	21	0.801	A BB	299712.	47.684 UG/L	15.88

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	5:58	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:05		10.000			50.00		0.456	
3	1:10		10.000			50.00		0.783	
4	1:28		10.000			50.00		1.114	
5	1:39		10.000			50.00		0.524	
6	2:41		5.000			50.00		1.197	
7	2:49		5.000			50.00		2.815	
8	3:01	1.02	10.000	0.05	3.41	50.00	0.010	0.141	0.07
9	7:40	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	3:36		5.000			50.00		1.197	
11	3:59		5.000			50.00		1.254	
12	4:40		5.000			50.00		1.925	
13	4:58		10.000			50.00		0.347	
14	5:37		5.000			50.00		1.496	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	5:49		10.000			50.00		0.092	
16	6:13		5.000			50.00		2.770	
17	6:16		5.000			50.00		0.716	
18	6:29		5.000			50.00		0.627	
19	6:51		5.000			50.00		0.761	
20	6:59		5.000			50.00		2.078	
21	12:26	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	7:56		5.000			50.00		0.428	
23	8:18		5.000			50.00		0.317	
24	8:52		5.000			50.00		0.826	
25	9:35		5.000			50.00		0.861	
26	9:31	1.00	15.000	0.05	2.04	50.00	0.007	0.177	0.04
27	10:01		5.000			50.00		0.707	
28	10:37		5.000			50.00		0.324	
29	10:54		5.000			50.00		0.327	
30	10:53		5.000			50.00		0.460	
31	11:31	1.00	15.000	0.06	1.35	50.00	0.003	0.097	0.03
32	11:32		5.000			50.00		0.442	
33	12:29		5.000			50.00		0.892	
34	12:46		5.000			50.00		0.421	
35	12:59		5.000			50.00		0.615	
36	13:40		5.000			50.00		0.555	
37	13:44		5.000			50.00		0.872	
38	14:00		5.000			50.00		0.328	
39	15:08		5.000			50.00		0.474	
40	6:52	1.00	5.000	0.23	48.63	50.00	2.154	2.215	0.97
41	14:38	1.00	5.000	0.24	47.10	50.00	0.831	0.882	0.94
42	9:55	1.00	5.000	0.16	47.68	50.00	1.137	1.192	0.95

LAB INSTRUCTIONS:

INORGANICS GET J DELIVERABLES. BILL AND SHIP AS CASE
CASE NO. RA 789 SDG 317. PLEASE PRESERVE METALS IN-HOUSE

RECEIPT DATE 11/14/89 CASE#: 18410 5 DUE DATE:

VOA J0 J J3 J D0 J (:1)
GC/MS WORKSHEET COMPUchem#: 301937 J2 J J4 J D2 J (:1)

GC/MS; VOA; WATER EPA SOW 2/88

Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

=====

SAMPLE ID#: 738001-05

=====

GC/MS ANALYSIS

Amount Purged: [] Smls or [] Dilution ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BFB911K A12 Disk (11020)
Blank Filename BFB0001K A12 Disk ()
Standard Filename CSS911K A12 Disk ()
Sample Filename CN001937B12 Disk ()

NOV 18 1989

ANALYST(S): Injection Ally 1/87 Work-up 1452 Alpha

GC/MS REVIEW

CONDITION
CODE

OK

Entry Codes OK, JS, SM, BL, 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, SM

Disposition: [] Complete
[] Reinject Neat
[] Dilute (:1)

Extraneous Peak Search Results:

of Peaks Found: 0

Quality Assurance Notice(s):

Notices Required 0

COMMENTS:

GC/MS Reviewed DNW Date 11/17/89 Auditor _____ Date ____/____/____

REPORT INTEGRATION Total # of Injections: 1

Final Reportable Package(s): CN-812

QA COMMENTS:

Initials _____ Date ____/____/____

FINAL REVIEW:

Initials _____ Date ____/____/____

AC1004 (05/89)

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (19)	476	70500	50.0		
221	90	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			3.4	BDL 3.4	10
248	114 I	1,4-DIFLUOROBENZENE (18)	614	295000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROENZENE (18)	994	264000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE			2.0	BDL 2.0	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE			1.4	BDL 1.4	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			49.6	97. %	
247	95 S	BROMOFLUOROBENZENE			47.1	94. %	
233	98 S	D8-TOLUENE WE#59			47.7	95. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY SJWane
(GC/MS DATA REVIEWER)DATE 11-17-89

CMP					QUANT	REPORTED	DETECT.
* M/E F	COMPOUND NAME	SCAN	AREA	VALUE	REPOR	AMOUNT	LIMIT
						(UG/L)	(UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:							
	3979.	2084	629500.	300.2		292.	

CORRECTED/REVIEWED BY S.D. Wagoner
(QC/MS DATA REVIEWER)DATE 11-17-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	48.6	50.0	97.	76-114	X	
41	247	BROMOFLUOROBENZENE	47.1	50.0	94.	86-115	X	
42	233	D6-TOLUENE WE#59	47.7	50.0	95.	88-110	X	

* ADVISORY SURROGATE ONLY

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

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION 9

CORRECTED/REVIEWED BY SDW/ane
(GC/MS DATA REVIEWER)

DATE 11-17-89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7J8001-06

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 301939
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CNO01939A12
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

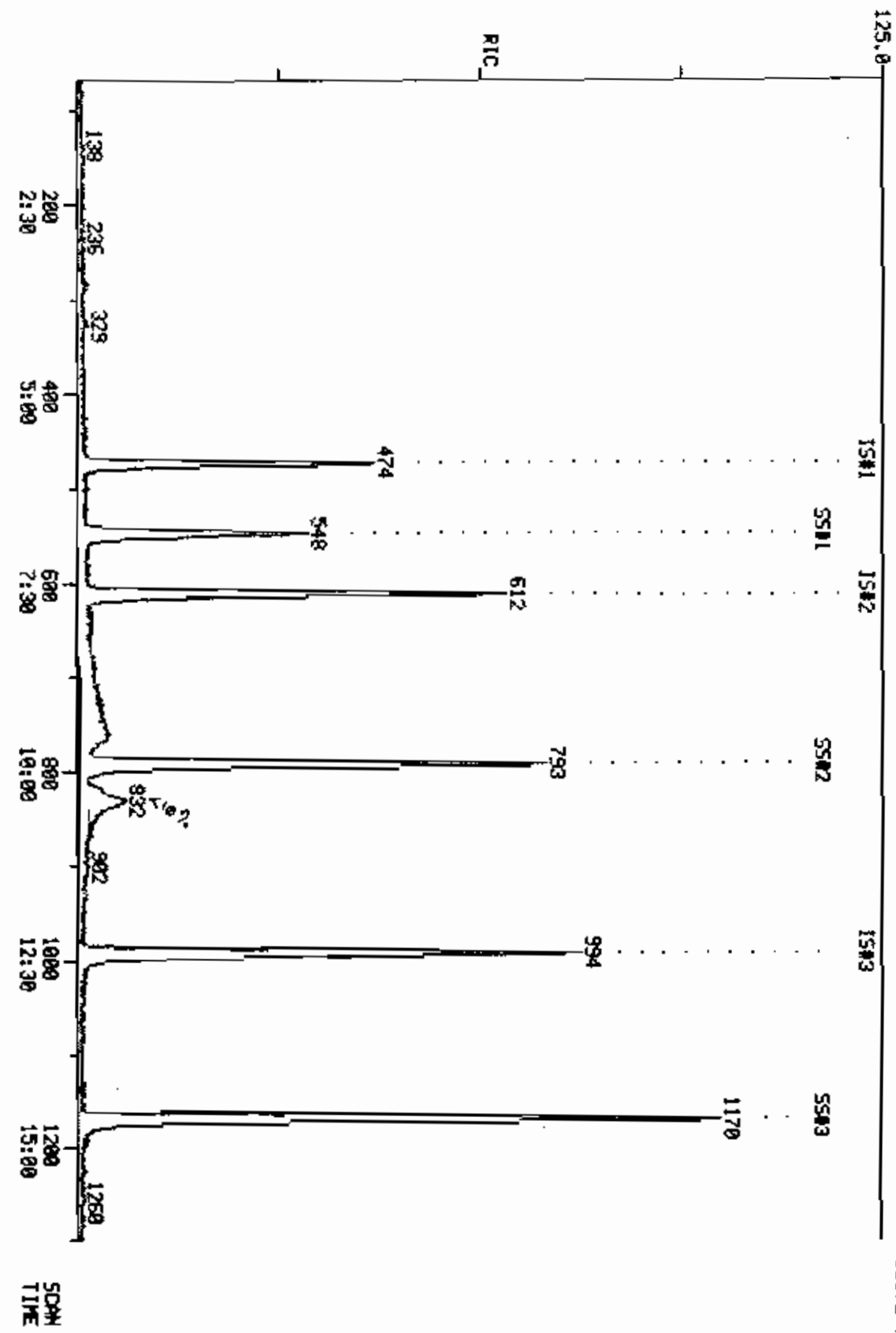
738001-06

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 301939
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN001939A12
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CDNC.	Q

RIC
 11/15/89 11:42:00
 SAMPLE: SWL EPA ID#728001-06 CASE#18410.5 CC#281509 OH #12
 COND.:
 COMPUCHEN LABS
 COMPUCHEN DATA: CN801939A12 SCANS 60 TO 1300
 198720.



QUANTITATION REPORT FILE: CN001939A12 /
 DATA: CN001939A12.TI
 11/15/89 11:42:00
 SAMPLE: 5ML EPA ID#73B001-06 / CABE#18410.5 / CC#301939 / QM #12
 COND. :
 SUBMITTED BY: 12 ANALYST: 1536

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLORoETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#6
7	254 CARBON DIBULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE . 124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M.P.-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	#258 D4-1,2-DICHLOROETHANE WE#57
41	#247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	#233 D8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTGT
1	128	474	3:55	1	1.000	A B8	71279.	50.000 UG/L	16.89
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	NOT FOUND							
9	114	612	7:39	9	1.000	A BB	307631.	50.000 UG/L	16.89
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	993	12:25	21	1.000	A BB	281540.	50.000 UG/L	16.89
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	760	9:30	21	0.765	A VV	3283.	2.936 UG/L	0.99 ND
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	548	6:51	1	1.156	A BB	162818.	48.504 UG/L	16.38
41	95	1170	14:37	21	1.178	A BB	240750.	46.882 UG/L	15.83
42	98	793	9:55	21	0.799	A BB	331145.	47.785 UG/L	16.14

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	6:00	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:04		10.000			50.00		0.727	
3	1:10		10.000			50.00		1.078	
4	1:28		10.000			50.00		1.307	
5	1:39		10.000			50.00		0.609	
6	2:43		5.000			50.00		1.442	
7	2:51		5.000			50.00		3.767	
8	3:05		10.000			50.00		0.213	
9	7:42	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	3:39		5.000			50.00		1.456	
11	4:02		5.000			50.00		1.518	
12	4:43		5.000			50.00		2.423	
13	9:01		10.000			50.00		0.534	
14	5:38		5.000			50.00		1.765	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	5:52		10.000			50.00		0.128	
16	6:15		5.000			50.00		3.164	
17	6:18		5.000			50.00		0.841	
18	6:31		5.000			50.00		0.714	
19	6:52		5.000			50.00		0.883	
20	7:01		5.000			50.00		2.452	
21	12:26	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	7:58		5.000			50.00		0.467	
23	8:19		5.000			50.00		0.355	
24	8:53		5.000			50.00		0.918	
25	9:37		5.000			50.00		0.914	
26	9:32	1.00	15.000	0.05	2.94	50.00	0.012	0.199	0.06
27	10:02		5.000			50.00		0.815	
28	10:41		5.000			50.00		0.380	
29	10:58		5.000			50.00		0.344	
30	10:58		5.000			50.00		0.515	
31	11:31		15.000			50.00		0.148	
32	11:32		5.000			50.00		0.475	
33	12:28		5.000			50.00		0.988	
34	12:45		5.000			50.00		0.485	
35	12:59		5.000			30.00		0.746	
36	13:40		5.000			50.00		0.677	
37	13:44		5.000			50.00		1.058	
38	14:01		5.000			50.00		0.365	
39	15:10		5.000			50.00		0.575	
40	6:55	0.99	5.000	0.23	48.50	50.00	2.284	2.355	0.97
41	14:38	1.00	5.000	0.24	46.88	50.00	0.855	0.912	0.94
42	9:56	1.00	5.000	0.16	47.79	50.00	1.174	1.231	0.96

LAB INSTRUCTIONS:

INORGANICS GET J DELIVERABLES. BILL AND SHIP AS CASE
CASE NO. RA 789 SD6 317. PLEASE PRESERVE METALS IN-HOUSE

RECEIPT DATE 11/14/89

CASE#: 18410 5

DUE DATE:

VOA
GC/MS WORKSHEET

COMPUCHEN#: 301939

J1 [] J3 [] D1 [] () :10
J2 [] J4 [] D2 [] () :10

GC/MS; VOA; WATER EPA SOW 2/88

Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

SAMPLE ID#: 738001-06

GC/MS ANALYSIS

Amount Purged: [] 5mls or [] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added _____ ul
Surrogate Standard Volume Added _____ ul
BFB Filename CSP91115C12 Disk ()
Blank Filename C0891115C12 Disk ()
Standard Filename CSP91115C12 Disk ()
Sample Filename CNO 01939A12 Disk ()

RECEIVED
NOV 17 1989

ANALYST(S): Injection 1536

Work-up ~~was~~ not performed

GC/MS REVIEW

CONDITION
CODE

OK

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

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

Disposition: [] Complete

Extraneous Peak Search Results:

of Peaks Found: 0

[] Reinject Heat

[] Dilute () :

Quality Assurance Notice(s):

Notices Required _____

COMMENTS:

GC/MS Review ~~Signature~~ Date 11/17/89 Auditor _____ Date _____

REPORT INTEGRATION

Total # of Injections: 1

Final Reportable Package(s): CN - A12

QA COMMENTS:

Initials _____ Date _____

FINAL REVIEW:

Initials _____ Date _____

AC1004 (05/89)

COMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	474	71300	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)				BDL	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	612	308000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	DB-CHLOROBENZENE (IS)	993	282000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE			2.9	BDL 2.9	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	04-1,2-DICHLOROETHANE WE#57			48.5	97. %	
247	95 S	BROMOFLUOROBENZENE			46.9	94. %	
233	98 S	08-TOLUENE WE#59			47.8	96. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY SDW/...
(GC/MS DATA REVIEWER)

DATE 11-17-89

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:							
		3979.	2079	661300.		296.1	290.

CORRECTED/REVIEWED BY SDWolke
(GC/MS DATA REVIEWER)

DATE 11-17-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	48.5	50.0	97.	76-114	X	
41	247	BROMOFLUOROBENZENE	46.9	50.0	94.	86-115	X	
42	233	D8-TOLUENE WE#59	47.8	50.0	96.	88-110	X	

* ADVISORY SURROGATE ONLY

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

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION B

CORRECTED/REVIEWED BY DUQUENOIS
(QC/MS DATA REVIEWER)

DATE 11-17-89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-08

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 301922
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN001922B12
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	<u>Q</u>
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethane	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001-08

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 301922
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CH001922B12
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column (pack/cap) CAP Dilution Factor: 1.0

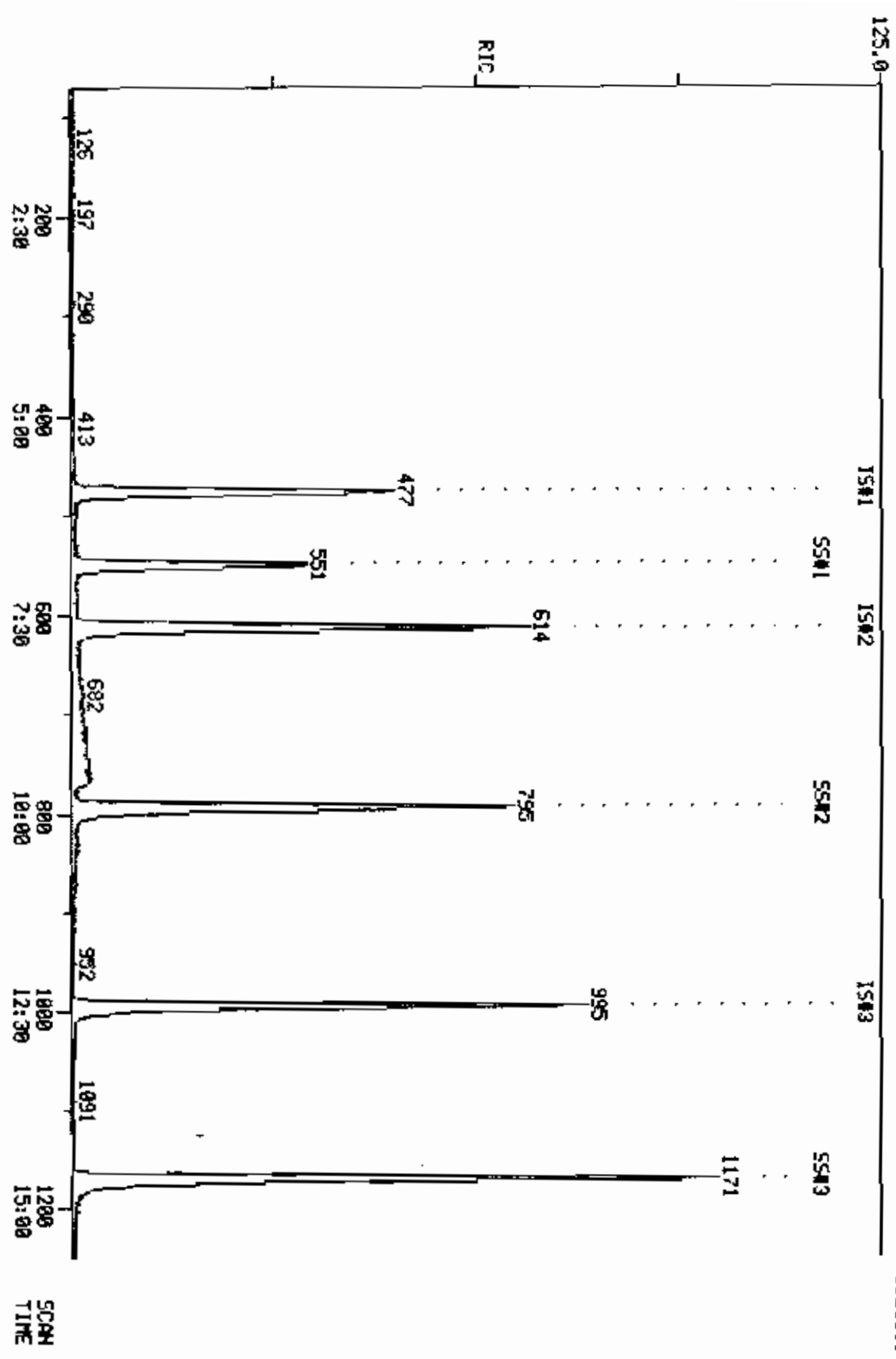
Number TICs found: 0 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

RIC
11/15/09 10:45:00
SAMPLE: 5 ML C00 301922 ID# 738901-08 CS# 18410 04 12
COND5.:

COMPUCHEN LABS
COMPUCHEN DATA: CN001922B12 SCAN# 71 TO 1250

182000.



QUANTITATION REPORT FILE: CN001922B12
 DATA: CN001922B12.TI
 11/19/89 18:45:00
 SAMPLE: 5 ML CC# 301922 / 10# 738001-08 CS# 18410 DN 12
 CONDS.:
 SUBMITTED BY: 12 ANALYST: 1457

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	300 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	#258 D4-1,2-DICHLOROETHANE WE#57
41	#247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	#233 D8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RT	METH	AREA(HGHT)	AMOUNT	XT07
1	128	477	5:58	1	1.000	A 88	72980.	50.000 UG/L	16.75
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	240	3:00	1	0.503	A*VV	995.	4.838 UG/L	1.62ND
9	114	614	7:40	9	1.000	A BB	302410.	50.000 UG/L	16.75
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	995	12:26	21	1.000	A BB	269948.	50.000 UG/L	16.75ME
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	765	9:34	21	0.769	A*VV	2909.	3.050 UG/L	1.02ND
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	920	11:30	21	0.925	A UB	530.	1.010 UG/L	0.34ND
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	551	6:53	1	1.155	A BB	155641.	48.208 UG/L	16.15
41	95	1171	14:38	21	1.177	A BB	216482.	45.451 UG/L	15.22
42	98	795	9:56	21	0.799	A BB	296501.	46.057 UG/L	15.42

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	5:58	1.00	10.000	D.10	50.00	50.00	1.000	1.000	1.00
2	1:05		10.000			50.00		0.456	
3	1:10		10.000			50.00		0.783	
4	1:28		10.000			50.00		1.114	
5	1:39		10.000			50.00		0.524	
6	2:41		5.000			50.00		1.197	
7	2:49		5.000			50.00		2.815	
8	3:01	1.00	10.000	0.05	4.84	50.00	0.014	0.141	0.10
9	7:40	1.00	5.000	D.20	50.00	50.00	1.000	1.000	1.00
10	3:36		5.000			50.00		1.197	
11	3:59		5.000			50.00		1.254	
12	4:40		5.000			50.00		1.925	
13	4:58		10.000			50.00		0.347	
14	5:37		5.000			50.00		1.496	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	5:49		10.000			50.00		0.092	
16	6:13		5.000			50.00		2.770	
17	6:16		5.000			50.00		0.716	
18	6:29		5.000			50.00		0.627	
19	6:51		5.000			50.00		0.761	
20	6:59		5.000			50.00		2.078	
21	12:26	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	7:56		5.000			50.00		0.428	
23	8:18		5.000			50.00		0.317	
24	8:52		5.000			50.00		0.826	
25	7:35		5.000			50.00		0.861	
26	9:31	1.01	15.000	0.05	3.05	50.00	0.011	0.177	0.06
27	10:01		5.000			50.00		0.707	
28	10:37		5.000			50.00		0.324	
29	10:54		5.000			50.00		0.327	
30	10:53		5.000			50.00		0.460	
31	11:31	1.00	15.000	0.06	1.01	50.00	0.002	0.097	0.02
32	11:32		5.000			50.00		0.442	
33	12:29		5.000			50.00		0.892	
34	12:46		5.000			50.00		0.421	
35	12:59		5.000			50.00		0.615	
36	13:40		5.000			50.00		0.555	
37	13:44		5.000			50.00		0.872	
38	14:00		5.000			50.00		0.328	
39	15:08		5.000			50.00		0.474	
40	6:52	1.00	5.000	0.23	48.21	50.00	2.136	2.215	0.96
41	14:38	1.00	5.000	0.24	45.45	50.00	0.802	0.882	0.91
42	7:55	1.00	5.000	0.16	46.06	50.00	1.098	1.192	0.92

LAB INSTRUCTIONS:

INORGANICS GET J DELIVERABLES. BILL AND SHIP AS CASE
CASE NO. RA 789 SDG 317. PLEASE PRESERVE METALS IN-HOUSE

RECEIPT DATE 11/14/89 CASE#: 18410 5 DUE DATE:

VOA J0] J30] D0] (:13
GC/MS WORKSHEET COMPUTHER#: 301922 J20] J40] D20] (:13

GC/MS: VOA; WATER EPA SOW 2/88

Sample Prep Code---000
Instrument Code----412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

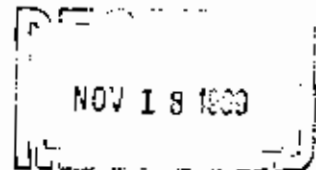
=====

SAMPLE ID#: 738001-08

=====

GC/MS ANALYSIS

Amount Purged: [] 5mls or [] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BFS9111SA12 Disk (11020)
Blank Filename CC 282111SA12 Disk ()
Standard Filename CS0111SA17 Disk ()
Sample Filename CN001922A12 Disk ()



ANALYST(S): Injection WJH/MSJ

Work-up VJZ/WJH

GC/MS REVIEW

CONDITION CODE

OK

Entry Codes OK, J5, SM, 5L, 5H, JA, DA

Non-Entry Codes IM, IL, IH, SW, CT, C5, PC, MR
IF, LA, DI, CO, RN, DW, SI, SF
UP, BB, OT, VC, FO, SH

Disposition: [] Complete
[] Reinject Neat
[] Dilute (:13)

Extraneous Peak Search Results:

of Peaks Found: 0

Quality Assurance Notice(s):

Notices Required _____

COMMENTS:

GC/MS Review SW/MSJ Date 11/17/89 Auditor _____ Date ____/____/____

REPORT INTEGRATION

Final Reportable Package(s): CN-812 / _____ Total # of Injections: 1

QA COMMENTS:

Initials _____ Date ____/____/____

FINAL REVIEW:

Initials _____ Date ____/____/____

AC1004 (05/89)

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	126 I	BROMOCHLOROMETHANE (IS)	477	72900	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
214	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			4.8	BDL 5	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	614	302000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROBENZENE (IS)	995	270000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE			3.0	BDL 5	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE			4.0	BDL 5	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M. P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			48.2	96. %	
247	95 S	BROMOFLUOROBENZENE			45.4	91. %	
233	98 S	D8-TOLUENE WE#59			46.0	92. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY SDWagne
(GC/MS DATA REVIEWER)DATE 11-17-89

CHP	#	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96		1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:								
			3979.	2086	644900.	298.4		268.

CORRECTED/REVIEWED BY SDW/ama
(GC/MS DATA REVIEWER)

DATE 11-17-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	48.2	50.0	96.	76-114	X	
41	247	BROMOFLUOROBENZENE	45.4	50.0	91.	86-115	X	
42	233	D8-TOLUENE WE#59	46.0	50.0	92.	88-110	X	

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

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{5000. \text{ (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION B

CORRECTED/REVIEWED BY SDW DANE
(GC/MS DATA REVIEWER)

DATE 11-17-89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-10

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 301938
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN001938B12
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethane	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001-10

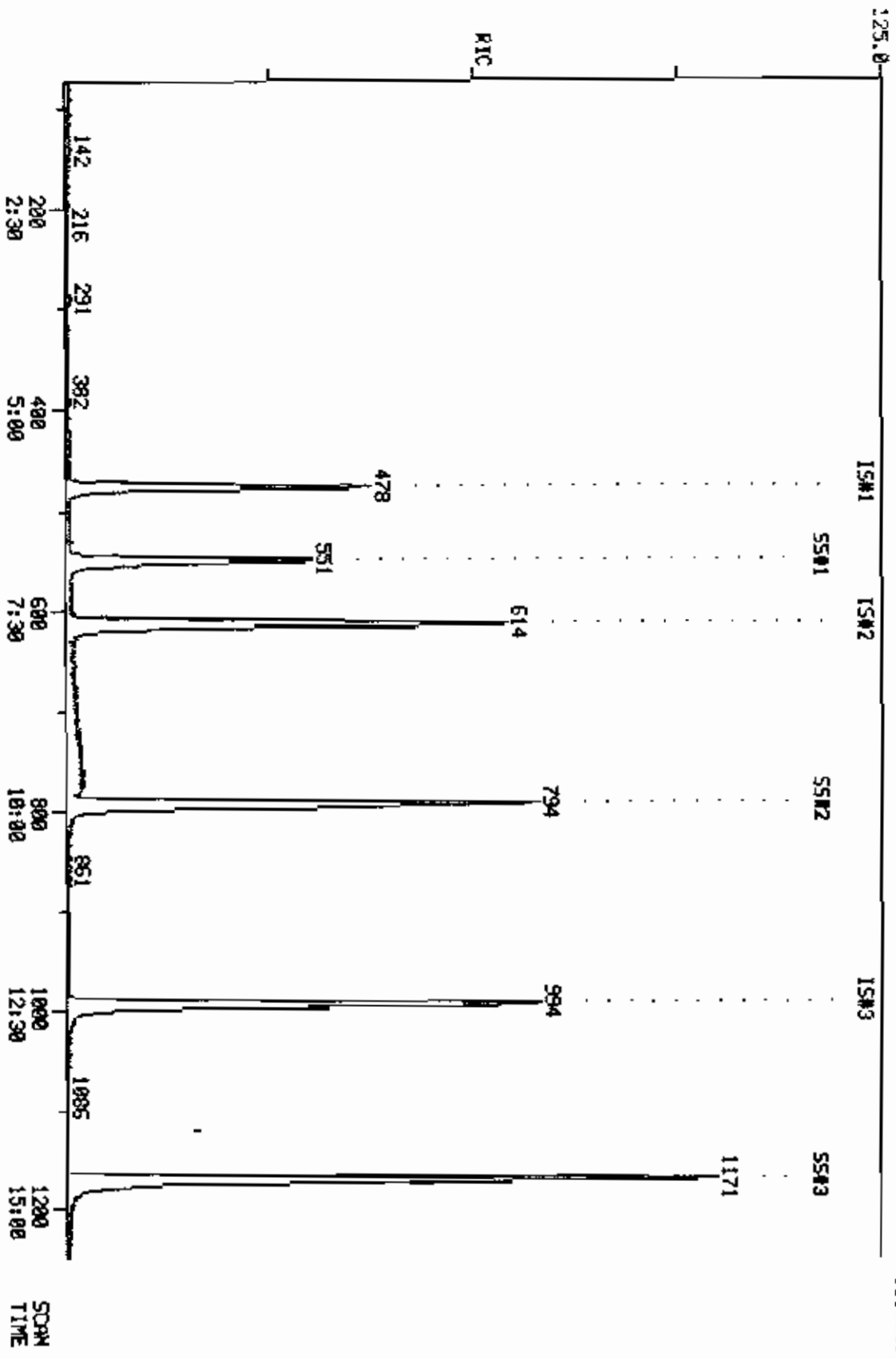
Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 301938
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN001938B12
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

RIC
 11/15/89 19:57:00
 SAMPLE: 5 ML CC# 301939 10# 738801-10 CS# 18418 ON 12
 COND5.:
 190480.

COMPUTHER LABS
 COMPUTHER DATA: CH001939B12 SCANS 73 TO 1250



QUANTITATION REPORT FILE: CN001938B12
 DATA: CN001938B12.TI
 11/15/89 19:57:00
 SAMPLE: 9 ML CC# 301938 ID# 738001-10 CS# 18410 ON 12
 CONDS.:
 SUBMITTED BY: 12 ANALYST: 1457

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

- NO NAME
- 1 *234 BROMOCHLOROMETHANE (16) <75-97-5> WE#1
- 2 221 CHLOROMETHANE <74-87-3> WE#2
- 3 231 VINYL CHLORIDE <75-01-4> WE#3
- 4 220 BROMOMETHANE <78-83-9> WE#4
- 5 209 CHLOROETHANE <75-00-3> WE#5
- 6 216 1,1-DICHLOROETHENE <78-35-4> WE#8
- 7 254 CARBON DISULFIDE <75-13-0> WE#9
- 8 252 ACETONE (2-PROPANONE) <67-64-1> WE#13
- 9 *248 1,4-DIFLUOROBENZENE (18) <540-36-3> WE#14
- 10 222 METHYLENE CHLORIDE <75-09-2> WE#16
- 11 226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
- 12 214 1,1-DICHLOROETHANE <75-34-3> WE#19
- 13 237 VINYL ACETATE <106-05-4> WE#20
- 14 237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
- 15 293 2-BUTANONE <78-93-3> WE#22
- 16 211 CHLOROFORM <67-66-2> WE#23
- 17 227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
- 18 206 CARBON TETRACHLORIDE <56-23-5> WE#25
- 19 203 BENZENE <71-43-2> WE#26
- 20 215 1,2-DICHLOROETHANE <107-06-2> WE#27
- 21 *270 D5-CHLOROBENZENE (16) <XXX-XX-X> WE#29
- 22 229 TRICHLOROETHENE <79-01-6> WE#30
- 23 217 1,2-DICHLOROPROPANE <78-87-5> WE#31
- 24 212 BROMODICHLOROMETHANE <75-27-4> WE#33
- 25 218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
- 26 256 4-METHYL-2-PENTANONE <108-01-1> WE#36
- 27 225 TOLUENE <108-88-3> WE#37
- 28 250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
- 29 228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
- 30 224 TETRACHLOROETHENE <127-18-4> WE#41
- 31 255 2-HEXANONE <591-78-6> WE#42
- 32 208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
- 33 207 CHLOROBENZENE <108-90-7> WE#45
- 34 219 ETHYLBENZENE <100-41-4> WE#47
- 35 330 M,P-XYLENE <133-02-7> WE#48
- 36 239 O-XYLENE <133-02-7> WE#49
- 37 251 STYRENE <100-42-5> WE#50
- 38 205 BROMOFORM <75-25-2> WE#51
- 39 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
- 40 *258 D4-1,2-DICHLOROETHANE WE#57
- 41 *247 BROMOFLUOROBENZENE <460-00-4> WE#58
- 42 *233 D6-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	478	5:58	1	1.000	A BB	68604.	50.000 UG/L	16.45
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	247	3:05	1	0.517	A BV	1214.	6.271 UG/L	2.06ND
9	114	614	7:40	9	1.000	A BB	287918.	50.000 UG/L	16.45
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	994	12:25	21	1.000	A BB	253954.	50.000 UG/L	16.45
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	917	11:28	21	0.923	A*VB	886.	1.795 UG/L	0.59ND
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	551	6:53	1	1.183	A BB	154631.	50.880 UG/L	16.74
41	95	1171	14:38	21	1.178	A BB	216851.	48.395 UG/L	15.92
42	98	794	9:55	21	0.799	A BB	282353.	46.622 UG/L	15.34

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	5:58	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:05		10.000			50.00		0.456	
3	1:10		10.000			50.00		0.783	
4	1:28		10.000			50.00		1.114	
5	1:39		10.000			50.00		0.524	
6	2:41		5.000			50.00		1.197	
7	2:49		5.000			50.00		2.815	
8	3:01	1.02	10.000	0.05	6.27	50.00	0.018	0.141	0.13
9	7:40	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	3:36		5.000			50.00		1.197	
11	3:59		5.000			50.00		1.254	
12	4:40		5.000			50.00		1.925	
13	4:58		10.000			50.00		0.347	
14	5:37		5.000			50.00		1.496	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	5:49		10.000			50.00		0.092	
16	6:13		5.000			50.00		2.770	
17	6:16		5.000			50.00		0.716	
18	6:29		5.000			50.00		0.627	
19	6:51		5.000			50.00		0.761	
20	6:59		5.000			50.00		2.078	
21	12:26	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	7:56		5.000			50.00		0.428	
23	8:18		5.000			50.00		0.317	
24	8:52		5.000			50.00		0.826	
25	9:35		5.000			50.00		0.861	
26	9:31		15.000			50.00		0.177	
27	10:01		5.000			50.00		0.707	
28	10:37		5.000			50.00		0.324	
29	10:54		5.000			50.00		0.327	
30	10:53		5.000			50.00		0.460	
31	11:31	1.00	15.000	0.06	1.79	50.00	0.003	0.097	0.04
32	11:32		5.000			50.00		0.442	
33	12:29		5.000			50.00		0.892	
34	12:46		5.000			50.00		0.421	
35	12:59		5.000			50.00		0.615	
36	13:40		5.000			50.00		0.555	
37	13:44		5.000			50.00		0.872	
38	14:00		5.000			50.00		0.328	
39	15:08		5.000			50.00		0.474	
40	6:52	1.00	5.000	0.23	50.88	50.00	2.254	2.215	1.02
41	14:38	1.00	5.000	0.24	48.40	50.00	0.854	0.882	0.97
42	9:55	1.00	5.000	0.16	46.62	50.00	1.112	1.192	0.93

LAB INSTRUCTIONS:

INORGANICS GET 3 DELIVERABLES. BILL AND SHIP AS CASE
 CASE NO. RA 789 SDG 317. PLEASE PRESERVE METALS IN-HOUSE

RECEIPT DATE 11/14/89 CASE#: 18410 5 DUE DATE:
 VOA JC 3 J3E 1 DE 1 (:1)
 GC/MS WORKSHEET COMPUCHEM#: 301938 J2E 1 J4E 1 D2E 1 (:1)

GC/MS; VOA; WATER EPA 90M 2/88

Sample Prep Code---000
 Instrument Code---412
 Compound List-----493
 Surrogate Std-----394
 Internal Std-----036

=====

SAMPLE ID#: 738001-10

=====

GC/MS ANALYSIS

Amount Purged: 5mls or Dilution _____ ul/5000ul Sparged
 Internal Standard Volume Added 5 ul
 Surrogate Standard Volume Added 5 ul
 BFB Filename BS8115A12 Disk (11020)
 Blank Filename CC-687115A17 Disk ()
 Standard File CS8115A12 Disk ()
 Sample Filename CN00938A12 Disk ()

NOV 28 1989

ANALYST(S): Injection PLG 1457 Work-up 1432 Neptune

=====

GC/MS REVIEW

CONDITION
 CODE

OK

Entry Codes OK, JS, SM, 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, SM

15.204

Disposition: Complete
 Reinject Neat
 Dilute (:1)

Extraneous Peak Search Results:

of Peaks Found: 0

Quality Assurance Notice(s):
 # Notices Required _____

COMMENTS:

GC/MS Review DWagner Date 11/17/89 Auditor _____ Date ____/____/____

=====

REPORT INTEGRATION

Final Reportable Package(s): CN-812 / _____ Total # of Injections: 1

=====

QA COMMENTS:

Initials _____ Date ____/____/____

=====

FINAL REVIEW:

Initials _____ Date ____/____/____

AC1004 (05/89)

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UO/L)
234	128 I	BROMOCHLOROMETHANE (IS)	478	68600	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
234	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			6.9	BDL	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	614	288000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
204	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROBENZENE (IS)	994	254000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE			1.8	BDL	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
298	65 S	04-1,2-DICHLOROETHANE WE#57			50.9	102. %	
247	95 S	BROMOFLUOROBENZENE			48.4	97. %	
233	98 S	D8-TOLUENE WE#59			46.6	93. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY SDU/awm
(GC/MS DATA REVIEWER)

DATE 11-17-89

CMP	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:							
		3979.	2086	610600.	304.0	300.	

CORRECTED/REVIEWED BY SDWagone
 (GC/MS DATA REVIEWER)

DATE 11-17-89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-12

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 301909
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN001909B12
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	4	J
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethane	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

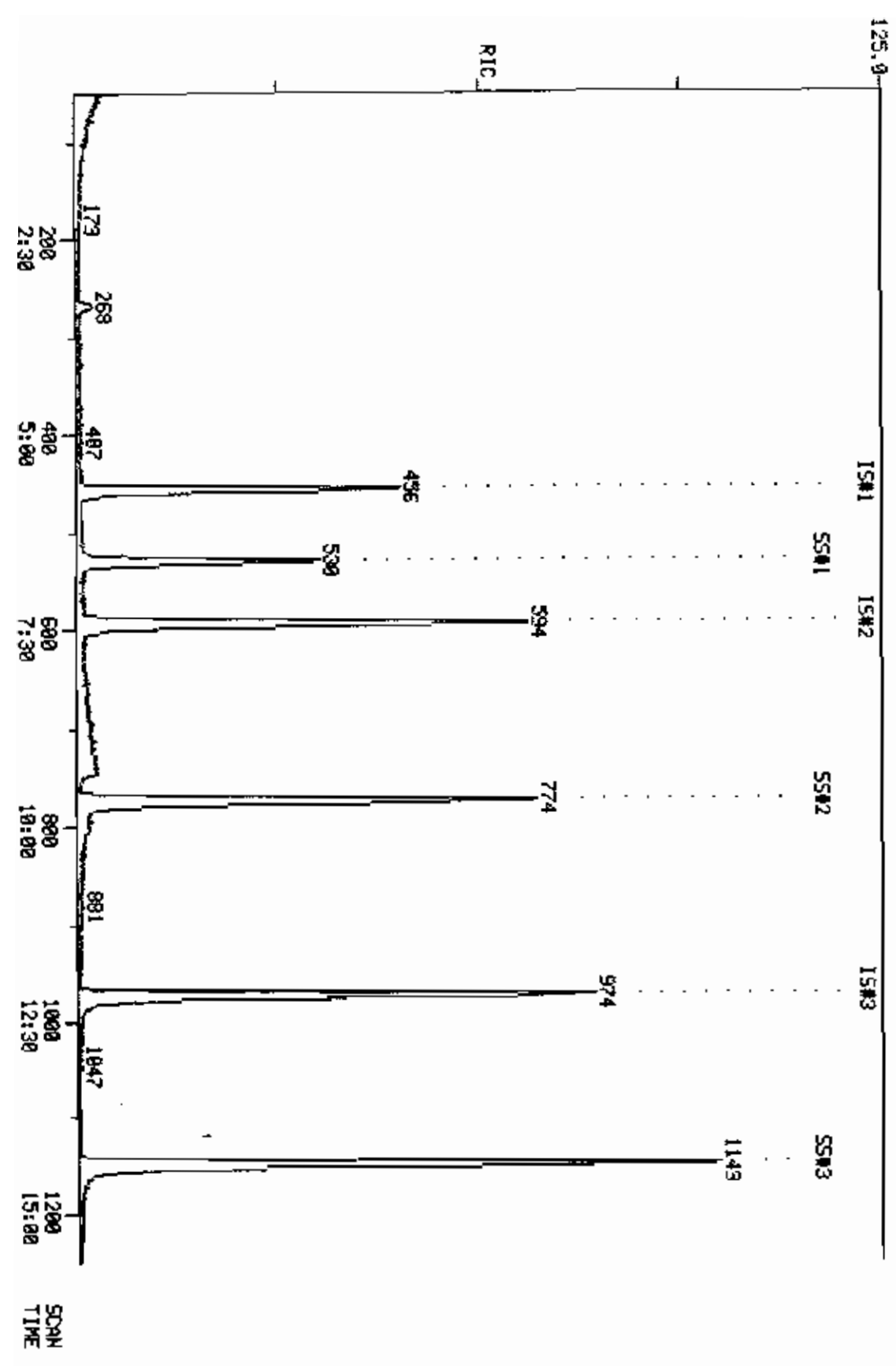
738001-12

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 301909
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN001909B11
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COMPUCHEM LABS
COMPUCHEM DATA: CN001999B12 SCANS 51 TO 1250
1788880.
R1C
11/15/89 16:21:00
SAMPLE: 5 ML CM 301909 10# 739001-12 CSA 18410 ON 12
COND.S.:



QUANTITATION REPORT FILE: CN001909B12
 DATA: CN001909B12.TI
 11/15/89 16:21:00
 SAMPLE: 5 ML CC# 301909 ID# 738001-12 CS# 18410 ON 12
 CONDS.:
 SUBMITTED BY: 12 ANALYST: 1437

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

- NO NAME
- 1 *234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
- 2 221 CHLOROMETHANE <74-87-3> WE#2
- 3 231 VINYL CHLORIDE <75-01-4> WE#3
- 4 220 BROMOMETHANE <78-83-9> WE#4
- 5 209 CHLOROETHANE <75-00-3> WE#5
- 6 216 1,1-DICHLOROETHENE <75-35-4> WE#8
- 7 25A CARBON DISULFIDE <75-15-0> WE#9
- 8 252 ACETONE (2-PROPANONE) <67-64-1> WE#13
- 9 *248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
- 10 222 METHYLENE CHLORIDE <75-09-2> WE#16
- 11 226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
- 12 214 1,1-DICHLOROETHANE <75-34-3> WE#19
- 13 257 VINYL ACETATE <108-05-4> WE#20
- 14 237 CIS-1,2-DICHLOROETHENE <196-59-2> WE#21
- 15 253 2-BUTANONE <78-93-3> WE#22
- 16 211 CHLOROFORM <67-66-2> WE#23
- 17 227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
- 18 206 CARBON TETRACHLORIDE <56-23-5> WE#25
- 19 203 BENZENE <71-43-2> WE#26
- 20 215 1,2-DICHLOROETHANE <107-06-2> WE#27
- 21 *270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
- 22 229 TRICHLOROETHENE <79-01-6> WE#30
- 23 217 1,2-DICHLOROPROPANE <78-87-5> WE#31
- 24 212 BROMODICHLOROMETHANE <75-27-4> WE#33
- 25 218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
- 26 256 4-METHYL-2-PENTANONE <108-01-1> WE#36
- 27 225 TOLUENE <108-88-3> WE#37
- 28 250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
- 29 228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
- 30 224 TETRACHLOROETHENE <127-18-4> WE#41
- 31 255 2-HEXANONE <591-78-6> WE#42
- 32 208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
- 33 207 CHLOROBENZENE <108-90-7> WE#45
- 34 219 ETHYLBENZENE <100-41-4> WE#47
- 35 330 M, P-XYLENE <133-02-7> WE#48
- 36 239 O-XYLENE <133-02-7> WE#49
- 37 251 STYRENE <100-42-5> WE#50
- 38 205 BROMOFORM <75-25-2> WE#51
- 39 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
- 40 *258 D4-1,2-DICHLOROETHANE WE#57
- 41 *247 BROMOFLUOROBENZENE <460-00-4> WE#58
- 42 *233 D8-TOLUENE WE#59

NO	N/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	129	456	5:42	1	1.000	A 88	72715.	50.000 UG/L	16.89
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	225	2:49	1	0.493	A W	392.	1.910 UG/L	0.65AD
9	114	593	7:25	9	1.000	A BB	299662.	50.000 UG/L	16.89
10	84	270	3:22	1	0.592	A BB	6388.	3.670 UG/L	1.24 ^{yes}
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	63	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	974	12:10	21	1.000	A BB	264749.	50.000 UG/L	16.89
22	130	NOT FOUND							
23	63	NOT FOUND							
24	63	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	63	NOT FOUND							
40	65	530	6:37	1	1.162	A BB	153080.	47.522 UG/L	16.05
41	95	1149	14:22	21	1.180	A BB	211517.	45.280 UG/L	15.29
42	98	774	9:40	21	0.795	A BB	301399.	47.738 UG/L	16.12

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	5:58	0.96	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:05		10.000			50.00		0.456	
3	1:10		10.000			50.00		0.783	
4	1:28		10.000			50.00		1.114	
5	1:39		10.000			50.00		0.524	
6	2:41		5.000			50.00		1.197	
7	2:49		5.000			50.00		2.815	
8	3:01	0.93	10.000	0.05	1.91	50.00	0.005	0.141	0.04
9	7:40	0.97	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	3:36	0.94	5.000	0.12	3.67	50.00	0.088	1.197	0.07
11	3:59		5.000			50.00		1.254	
12	4:40		5.000			50.00		1.925	
13	4:58		10.000			50.00		0.347	
14	5:37		5.000			50.00		1.496	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	5:49		10.000			50.00		0.092	
16	6:13		5.000			50.00		2.770	
17	6:16		5.000			50.00		0.716	
18	6:29		5.000			50.00		0.627	
19	6:51		5.000			50.00		0.761	
20	6:59		5.000			50.00		2.078	
21	12:26	0.98	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	7:56		5.000			50.00		0.428	
23	8:18		5.000			50.00		0.317	
24	8:52		5.000			50.00		0.826	
25	9:35		5.000			50.00		0.861	
26	9:31		15.000			50.00		0.177	
27	10:01		5.000			50.00		0.707	
28	10:37		5.000			50.00		0.324	
29	10:54		5.000			50.00		0.327	
30	10:53		5.000			50.00		0.460	
31	11:31		15.000			50.00		0.097	
32	11:32		5.000			50.00		0.442	
33	12:29		5.000			50.00		0.892	
34	12:46		5.000			50.00		0.421	
35	12:59		5.000			50.00		0.615	
36	13:40		5.000			50.00		0.559	
37	13:44		5.000			50.00		0.872	
38	14:00		5.000			50.00		0.328	
39	15:08		5.000			50.00		0.474	
40	6:52	0.96	5.000	0.23	47.52	50.00	2.105	2.215	0.95
41	14:38	0.98	5.000	0.24	45.28	50.00	0.799	0.882	0.91
42	9:55	0.98	5.000	0.16	47.74	50.00	1.138	1.192	0.95

LIBRARY SEARCH
11/15/89 16:21:00 + 3:22
SAMPLE: 5 ML C0# 301909 100 738001-12 C0# 18410 ON 12
ENHANCED (5 158 24 0T)

COMPUCHEN LABS

DATA: C0001909012 # 270

BASE M/E: 64
R1C1 1973.

1000
SAMPLE

C-H2-CL-2
1 HT 1000
B PK 49
R C0# 1
YH 16
PLR 631

222 METHYLENE CHLORIDE (75-69-2) M016

SAMPLE MINUS LIBRARY

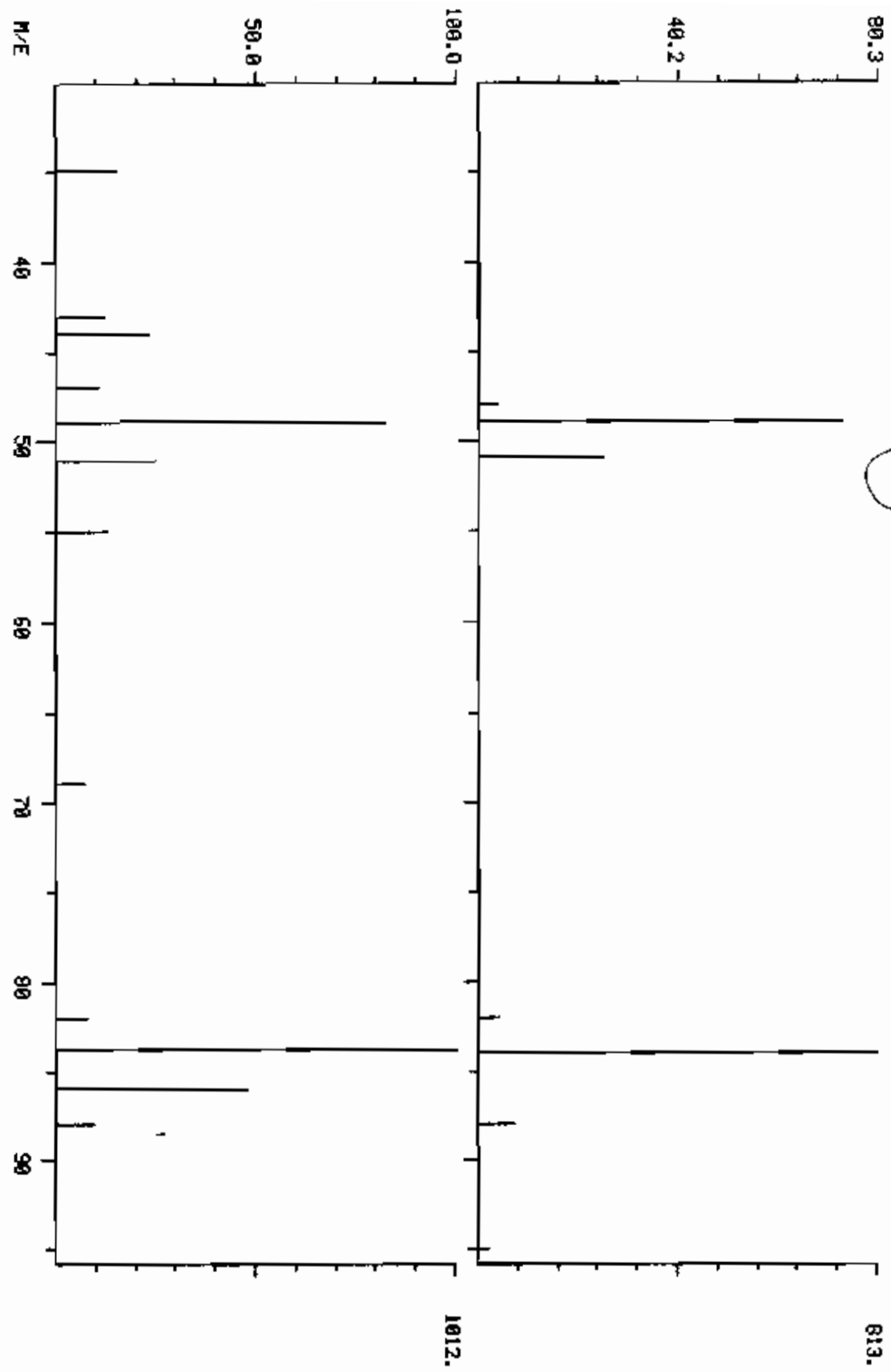
1000
0
M/E 40 50 60 70 80 90

DUAL MASS SPECTRUM
11/15/89 16:21:00 + 3:22
SAMPLE: 5 mL CC# 301909
ENHANCED (5 150 2N)

104 730001-12 CS# 19410 ON 12
222 METHYLENE CHLORIDE (75-09-2) ME#16

COMPUCHEM LABS

DATA: CM001909912 #270 BASE M/E: 64/ 84
RIC: 1973.7 3575.



LAB INSTRUCTIONS:

INORGANICS GET J DELIVERABLES. BILL AND SHIP AS CASE
CASE NO. RA 789 SDG 317. PLEASE PRESERVE METALS IN-HOUSE

RECEIPT DATE 11/14/89

CASE#: 18410 5

DUE DATE:

VOA
GC/MS WORKSHEET

COMPUCHEN#: 301909

J1 1 J30 1 D1 1 0 10
J21 1 J40 1 D21 1 0 10

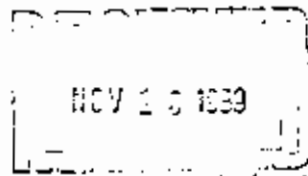
GC/MS; VOA; WATER EPA SOW 2/88

Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

SAMPLE ID#: 718001-12

GC/MS ANALYSIS

Amount Purged: [] 5mls or [] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BF891115A12 Disk (H81R0)
Blank Filename CC891115A12 Disk ()
Standard Filename CS891115A12 Disk ()
Sample Filename CN001909B12 Disk ()



ANALYST(S): Injection

ALP/1457

Work up A152 Adapter

GC/MS REVIEW

CONDITION
CODE

OK

Entry Codes OK, JS, SM, 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, SM

Disposition: [] Complete

Extraneous Peak Search Results:

of Peaks Found: 0

[] Reinject Neat

[] Dilute (:)

Quality Assurance Notice(s):

Notices Required _____

COMMENTS:

GC/MS Review Signature Date 11/17/89 Auditor _____ Date ____/____/____

REPORT INTEGRATION

Total # of Injections: 1

Final Reportable Package(s): CN - B12

QA COMMENTS:

Initials _____ Date ____/____/____

FINAL REVIEW:

Initials _____ Date ____/____/____

AC1004 (05/89)

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	456	72700	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			4.7	BDL	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	593	300000	50.0		
222	84	METHYLENE CHLORIDE			3.7	4J	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	OS-CHLOROBENZENE (IS)	974	265000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
230	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
300	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				RDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			47.5	95. X	
247	95 S	BROMOFLUOROBENZENE			45.3	91. X	
233	96 S	D8-TOLUENE WE#59			47.7	95. X	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY SDWagoner
(GC/MS DATA REVIEWER)DATE 11-17-89

CMP	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:							
		3979.	2023	637700.	296.1		297.

CORRECTED/REVIEWED BY SDW/gwe
(GC/MS DATA REVIEWER)DATE 11-17-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTRL RANGE	P	F
40	258	D4-1,2-DICHLORoETHANE WE#57	47.5	50.0	95.	76-114	X	
41	247	BROMOFLUOROBENZENE	45.3	50.0	91.	86-115	X	
42	233	O8-TOLUENE WE#59	47.7	50.0	95.	88-110	X	

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

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} =$$

$$\frac{5000 \text{ UL}}{5000. \text{ (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION 8

CORRECTED/REVIEWED BY *DLH/ma*
 (GC/MS DATA) REVIEWER)

DATE 11-17-89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-13

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302174
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002174B18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001-13

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 102174
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002174B18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 7

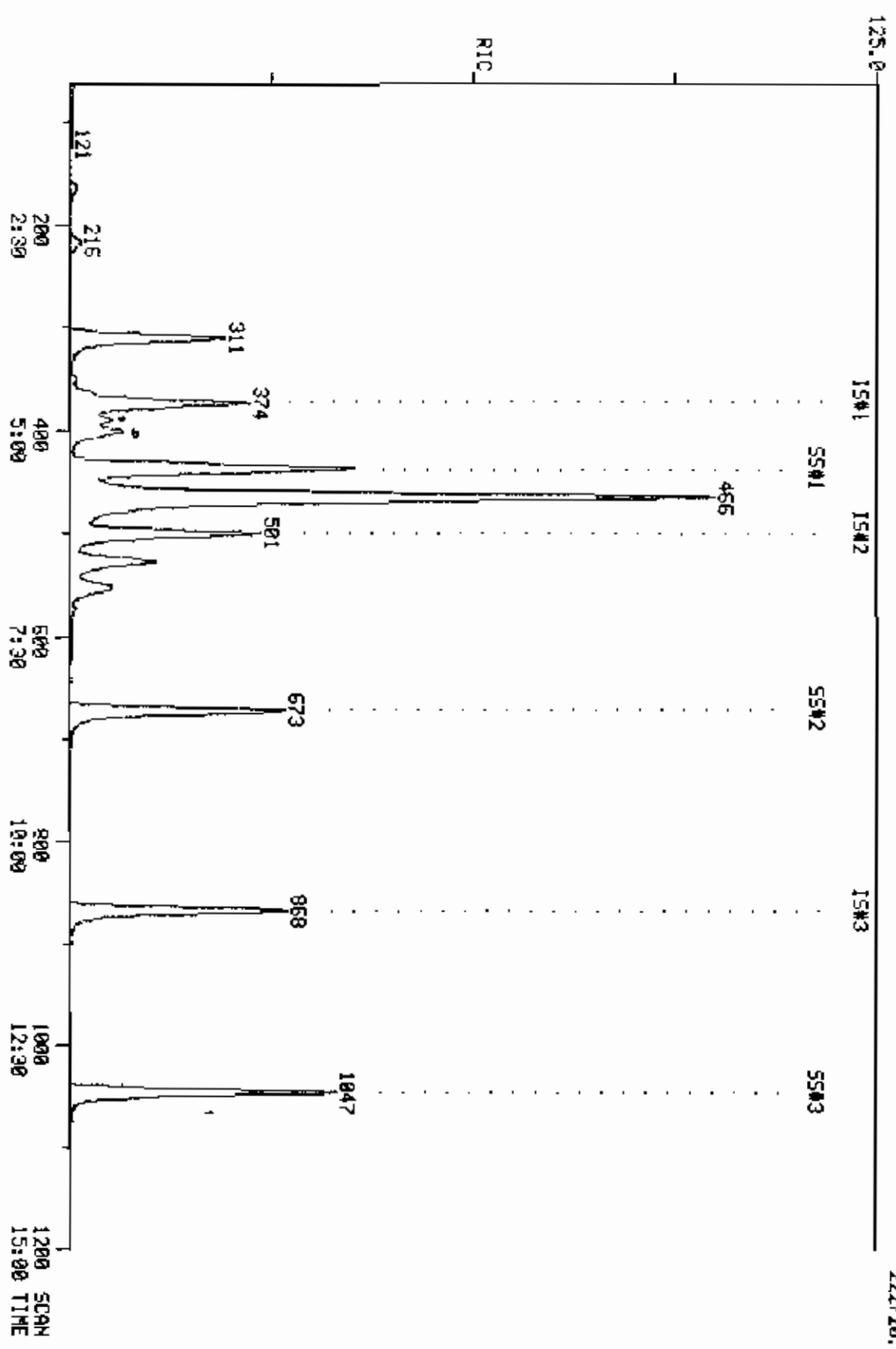
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.88	50	J
2.	TRANSDIMETHYLOXETANE ISOMER	4.88	12	J
3.	TRANSDIMETHYLOXETANE ISOMER	5.02	15	J
4.	UNKNOWN	5.45	100	J
5. 1072-47-5	1,3-DIOXOLANE, 4-METHYL-	5.82	210	J
6. 2935-44-6	2,5-HEXANEDIOL	6.60	26	J
7. 3377-87-5	HEXANE, 3-BROMO-	6.92	14	J

COMPUCHEN LABS
COMPUCHEN DATA: CH002174B18 SCANS 63 TO 1200

RIC
11/16/89 20:21:00
SAMPLE: SML C00 302174 100 739001-13 CASE# 18410 ON #18
COND5:1

222720.



QUANTITATION REPORT FILE: CN002174818
 DATA: CN002174818.T1
 11/16/89 20:21:00
 SAMPLE: 5ML CC# 302174 ID# 738001-13 CASE# 18410 ON #18
 CONDS.:
 SUBMITTED BY: 18 ANALYST: 1009-

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (IS) (XXX-XX-X) WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <105-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <132-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 BTYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	#258 D4-1,2-DICHLOROETHANE WE#57
41	#247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	#233 D8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	129	373	4:40	1	1.000	A BB	42693.	50.000 UG/L	17.43
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	NOT FOUND							
9	114	501	6:16	9	1.000	A BB	165208.	50.000 UG/L	17.43
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	80	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	868	10:51	21	1.000	A BB	147294.	50.000 UG/L	17.40
22	100	NOT FOUND							
23	63	NOT FOUND							
24	80	NOT FOUND							
25	79	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	440	5:30	1	1.180	A BB	65186.	43.925 UG/L	15.31
41	95	1047	13:05	21	1.206	A BB	89871.	45.626 UG/L	15.90
42	98	673	8:25	21	0.775	4 BB	141584.	47.383 UG/L	16.52

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:40	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51		10.000			50.00		0.638	
3	0:57		10.000			50.00		0.600	
4	1:08		10.000			50.00		0.957	
5	1:13		10.000			50.00		0.573	
6	1:57		5.000			50.00		1.291	
7	2:04		5.000			50.00		3.119	
8	2:09		10.000			50.00		0.348	
9	6:16	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	2:38		5.000			50.00		1.309	
11	2:57		5.000			50.00		1.203	
12	3:32		5.000			50.00		1.928	
13	3:48		10.000			50.00		0.497	
14	4:21		5.000			50.00		1.487	

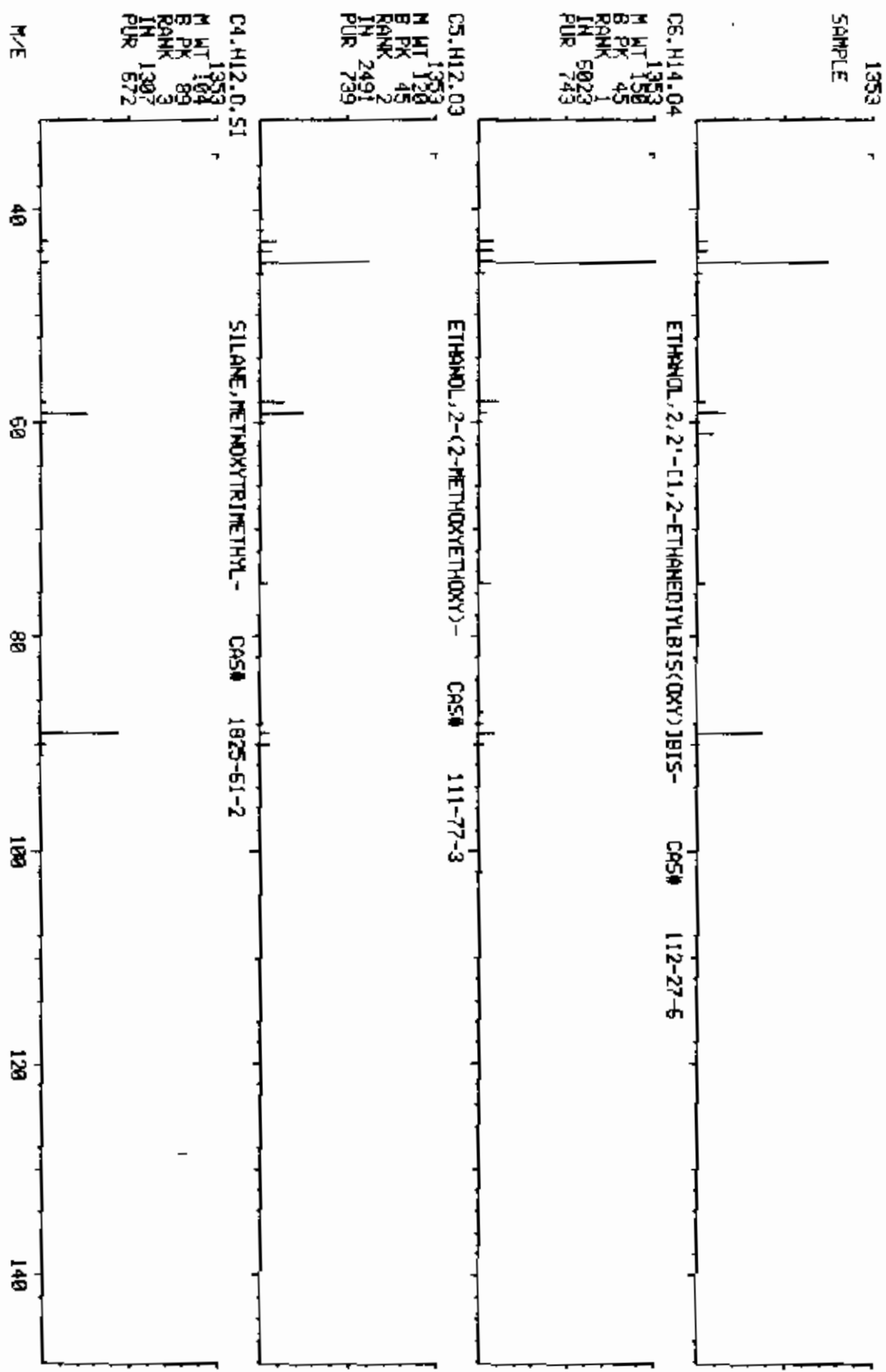
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	4:31		10.000			50.00		0.096	
16	4:54		5.000			50.00		2.453	
17	4:56		5.000			50.00		0.548	
18	5:08		5.000			50.00		0.567	
19	5:28		5.000			50.00		0.728	
20	5:37		5.000			50.00		1.733	
21	10:52	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	6:30		5.000			50.00		0.437	
23	6:51		5.000			50.00		0.295	
24	7:25		5.000			50.00		0.533	
25	8:08		5.000			50.00		0.471	
26	8:33		15.000			50.00		0.332	
27	8:32		5.000			50.00		0.602	
28	9:09		5.000			50.00		0.217	
29	9:24		5.000			50.00		0.302	
30	9:22		5.000			50.00		0.502	
31	10:01		15.000			50.00		0.192	
32	9:58		5.000			50.00		0.556	
33	10:55		5.000			50.00		0.940	
34	11:13		5.000			50.00		0.402	
35	11:27		5.000			50.00		0.700	
36	12:07		5.000			50.00		0.640	
37	12:12		5.000			50.00		1.073	
38	12:28		5.000			50.00		0.411	
39	13:41		5.000			50.00		0.439	
40	5:29	1.00	5.000	0.24	43.92	50.00	1.550	1.765	0.88
41	13:07	1.00	5.000	0.24	45.63	50.00	0.610	0.669	0.91
42	8:26	1.00	5.000	0.16	47.38	50.00	0.961	1.014	0.95

LIBRARY SEARCH
 11/16/89 20:21:09 + 3:53
 SAMPLE: SML CC# 302174 ID# 738091-13 CASE# 19410 ON #18
 ENHANCED (5 158 2N 0T)

COMPUCHEM LABS

DATA: CH002174B18 # 311

BASE M/E: 45
 RIC: 34559.

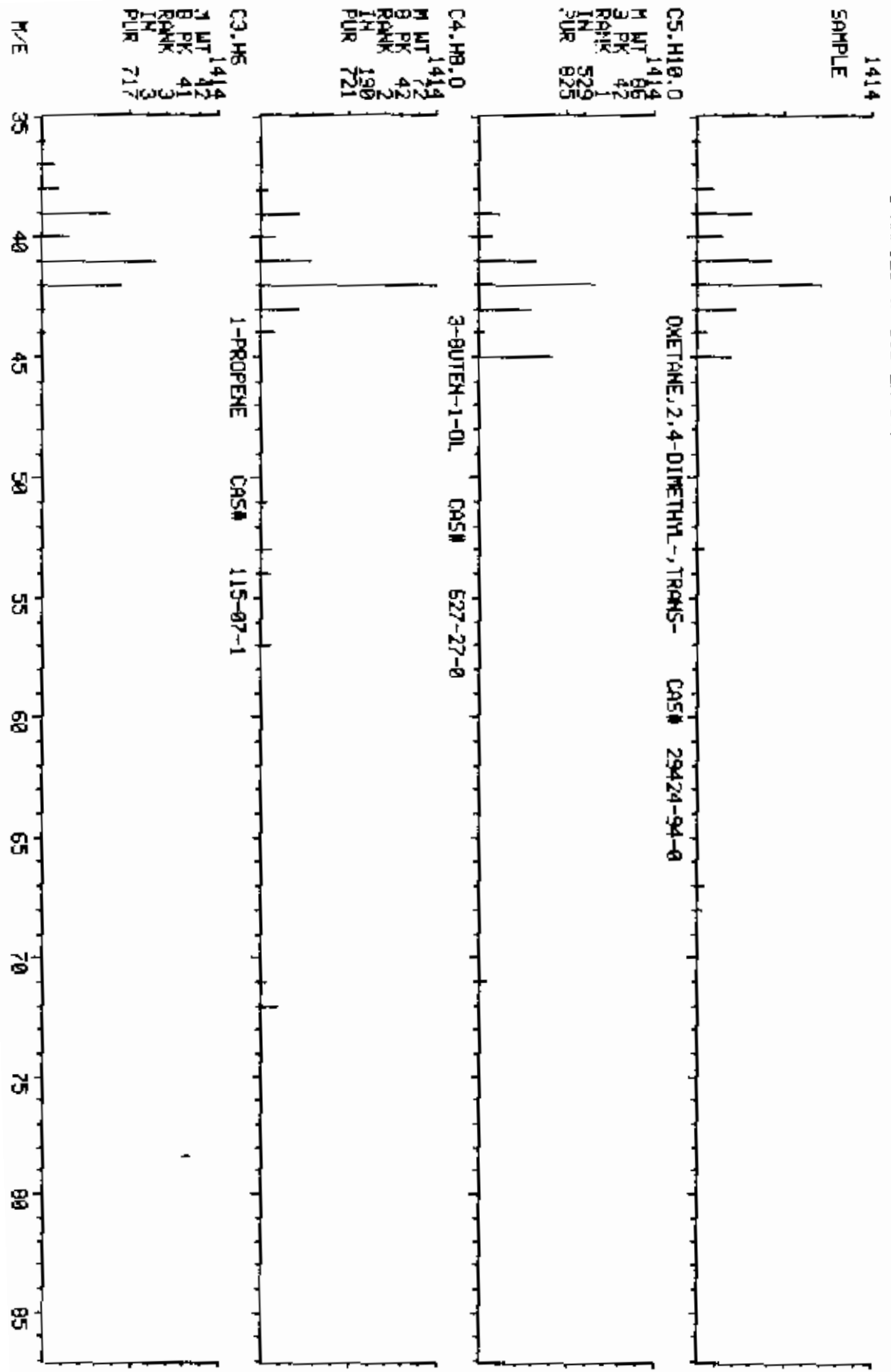


LIBRARY SEARCH
 11/16/09 20:21:00 + 4:53
 SAMPLE: SML C04 382174 ID# 739001-13 CASE# 18410 ON #18
 ENHANCED (5 158 2N 0T)

COMPUchem LABS

DATA: CH002174918 # 391

BASE M/E: 42
 RIC: 3455.

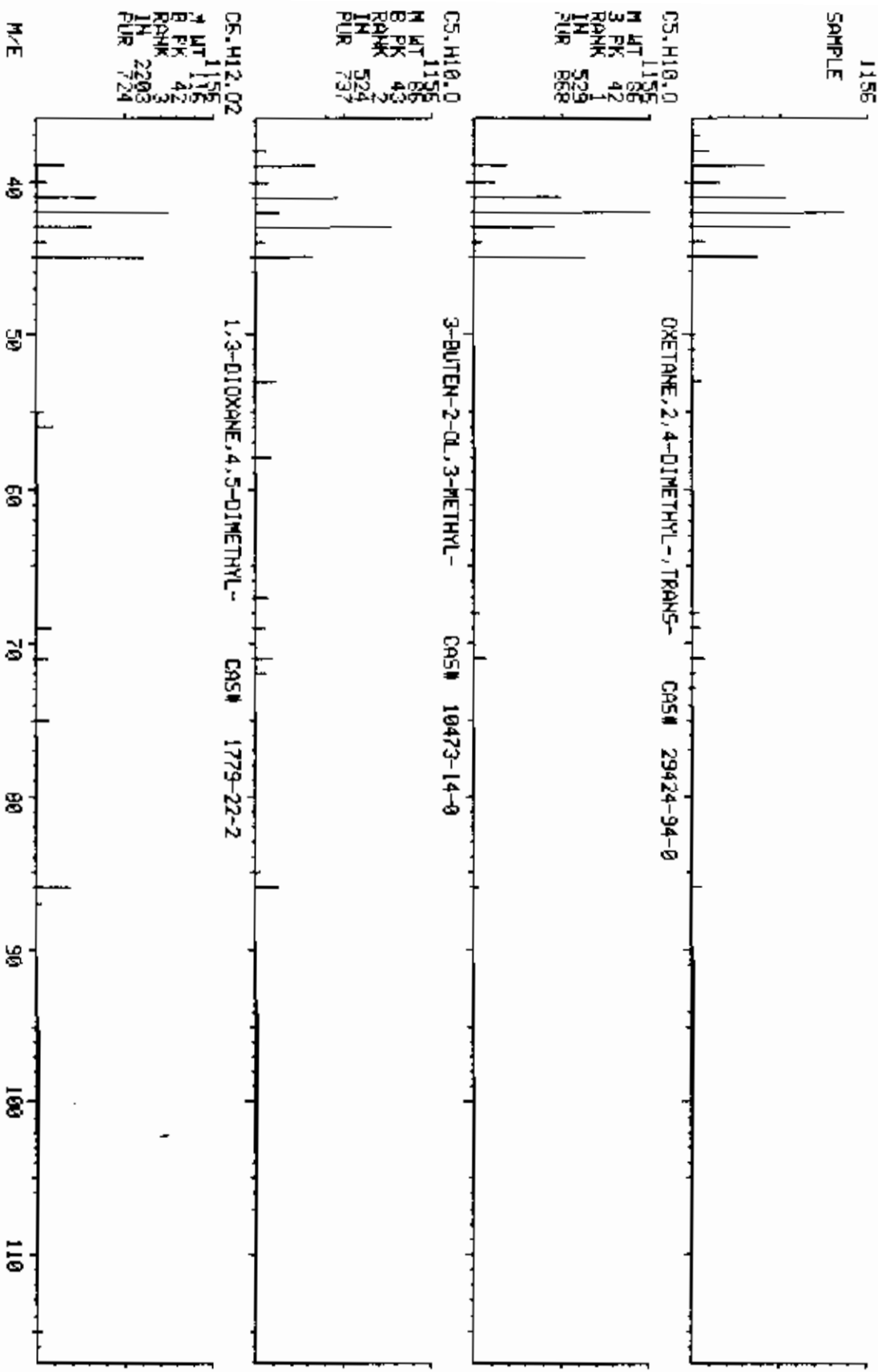


COMPUCHEM LABS

DATA: CN002174818 # 482

BASE M/E: 42
RIC: 8479.

LIBRARY SEARCH
11/15/89 20:21:00 + 5:01
SAMPLE: SML CCM 302174 ID# 739001-13 CASE# 19410 ON #18
ENHANCED (5 158 2N 01)



LIBRARY SEARCH
11/16/89 20:21:00 + 5:28
SAMPLE: SML CC# 302174 ID# 738001-13 CASE# 18410 ON #18
ENHANCED (S 158 ZN 0T)

COMPUCHEM LARS

DATA: CH002174B18 # 437

BASE M/E: 45
RIC: 52479.

1568
SAMPLE

C5.H12.02
M UT 1568
B PK 43
RANK 1
IN 1331
ZUR 568

C4.H8.03
M UT 1568
B PK 45
RANK 2
IN 1319
PUR 500

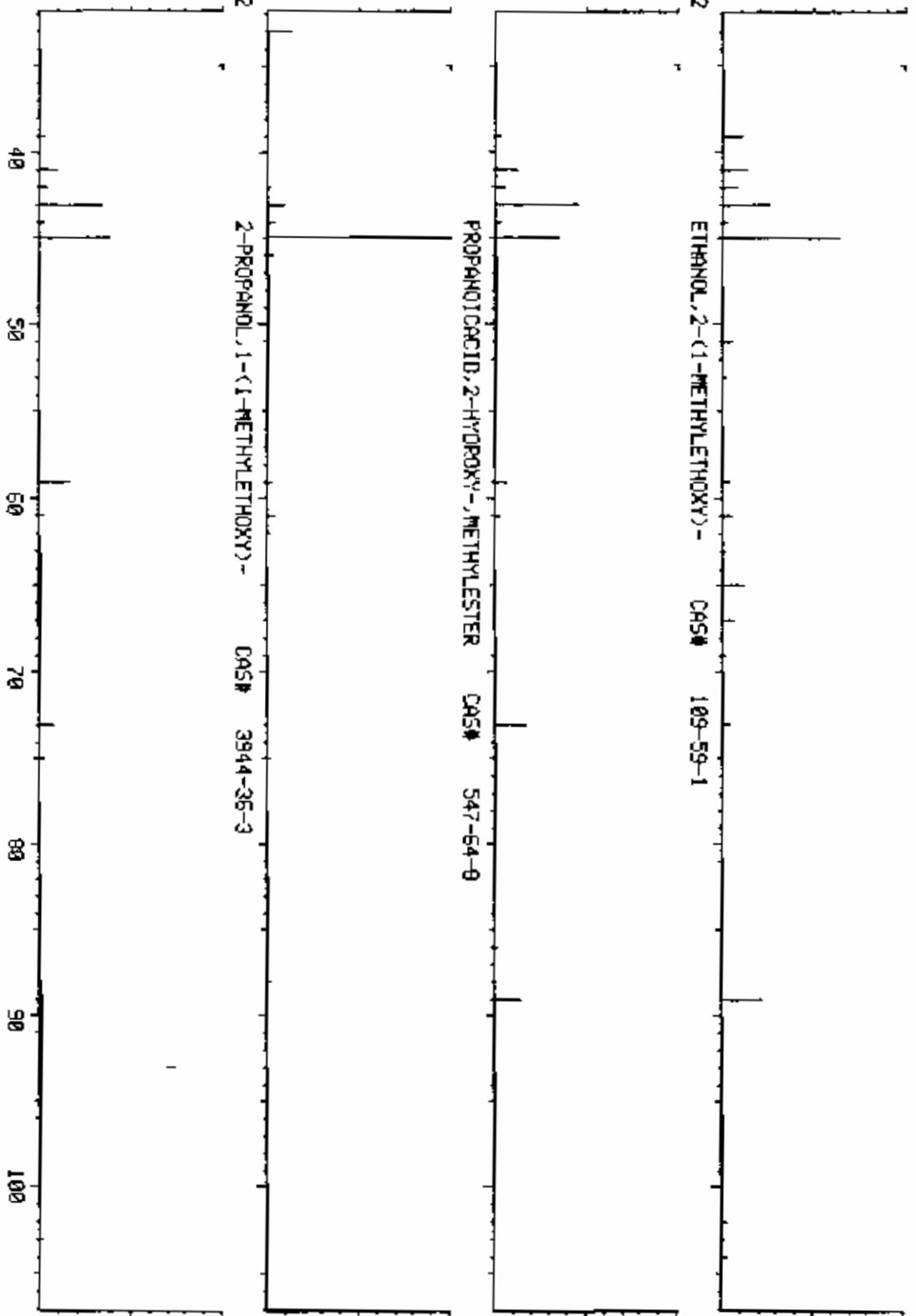
C6.H14.02
M UT 1568
B PK 45
RANK 3
IN 2371
PUR 505

ETHANOL,2-(1-METHYLETHOXY)- CAS# 109-59-1

PROPANOICACID,2-HYDROXY-,METHYLESTER CAS# 547-54-0

2-PROPANOL,1-(1-METHYLETHOXY)- CAS# 3944-36-3

M/E



COMPUCHEN LABS

DATA: CN002174818 # 465

BASE M/E: 44
R1C: 129791.

LIBRARY SEARCH
11/16/89 20:21:00 + 5:49
SAMPLE: SML C09 302174 ID# 739001-13 CASE# 10410 ON #18
ENHANCED (S 159 2N 0T)

1564
SAMPLE

C4.H8.O2
M UT 1564
B PK 44
RANK 1
IN 591
PUR 726

1,3-DIOXOLANE,4-METHYL- CAS# 1072-47-5

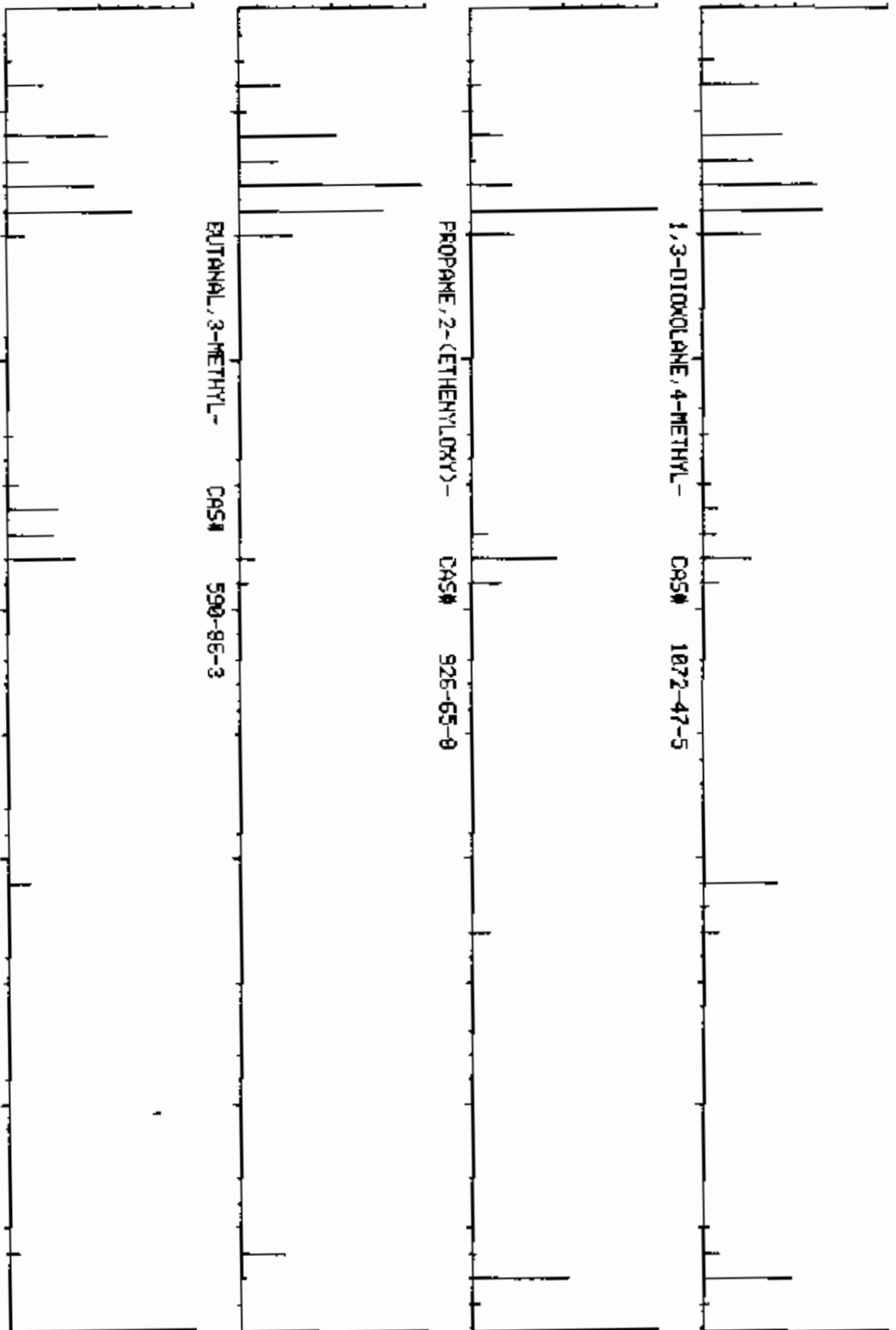
C5.H10.O
M UT 1564
B PK 43
RANK 2
IN 514
PUR 685

PROPANE,2-(ETHENYLOXY)- CAS# 926-65-0

C5.H10.O
M UT 1564
B PK 44
RANK 3
IN 508
PUR 661

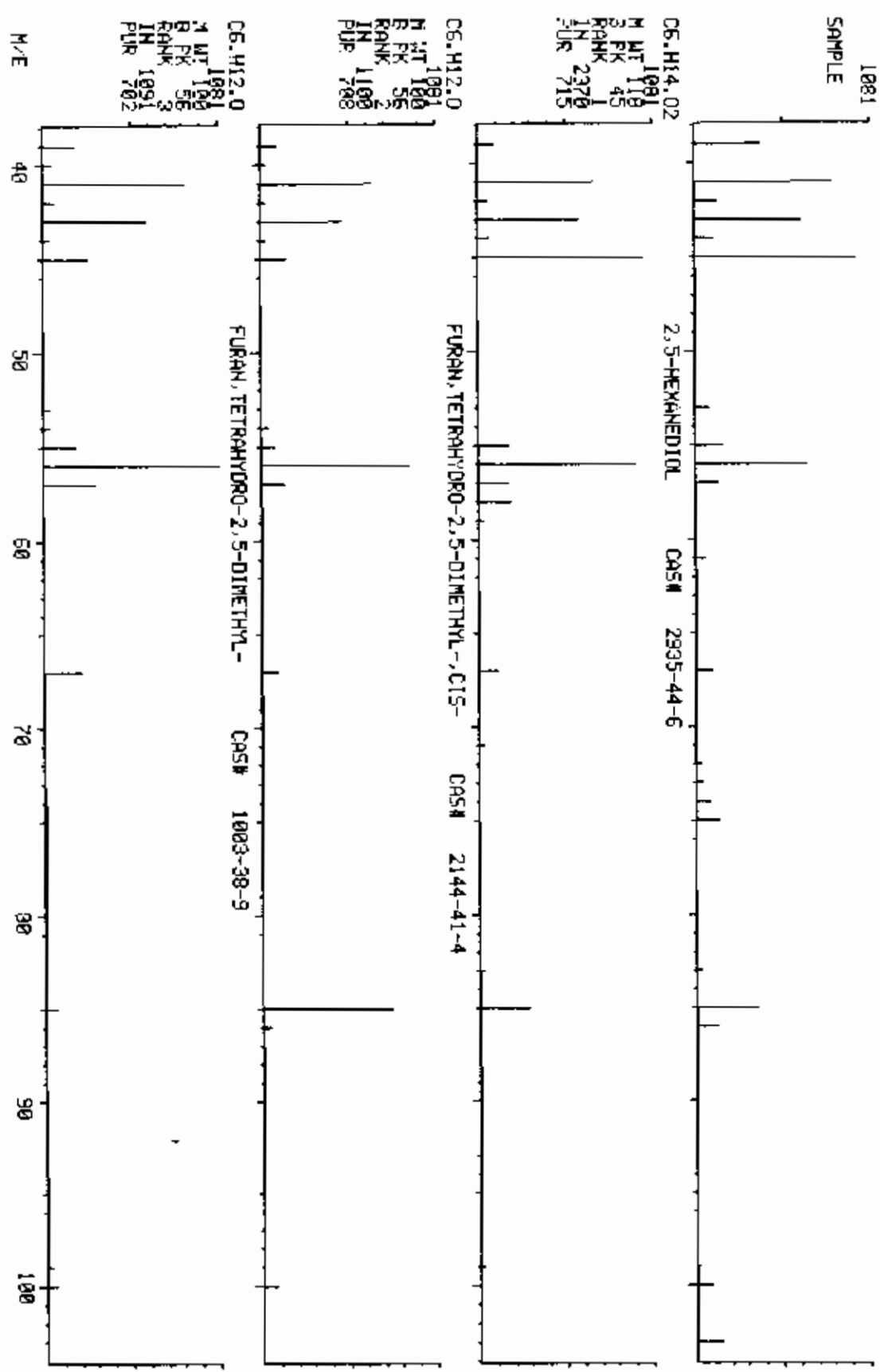
BUTANAL,3-METHYL- CAS# 590-86-3

M/E 40 50 60 70 80



LIBRARY SEARCH
 11/15/89 20:21:00 + 6:37
 SAMPLE: SML CC# 302174 IOM 738001-13 CASE# 18410 ON #18
 ENHANCED (S 158 2H 0T)

COMPUCHEN L085
 DATA: CH002174B18 # 529
 BASE M/E: 45
 RIC: 15535.

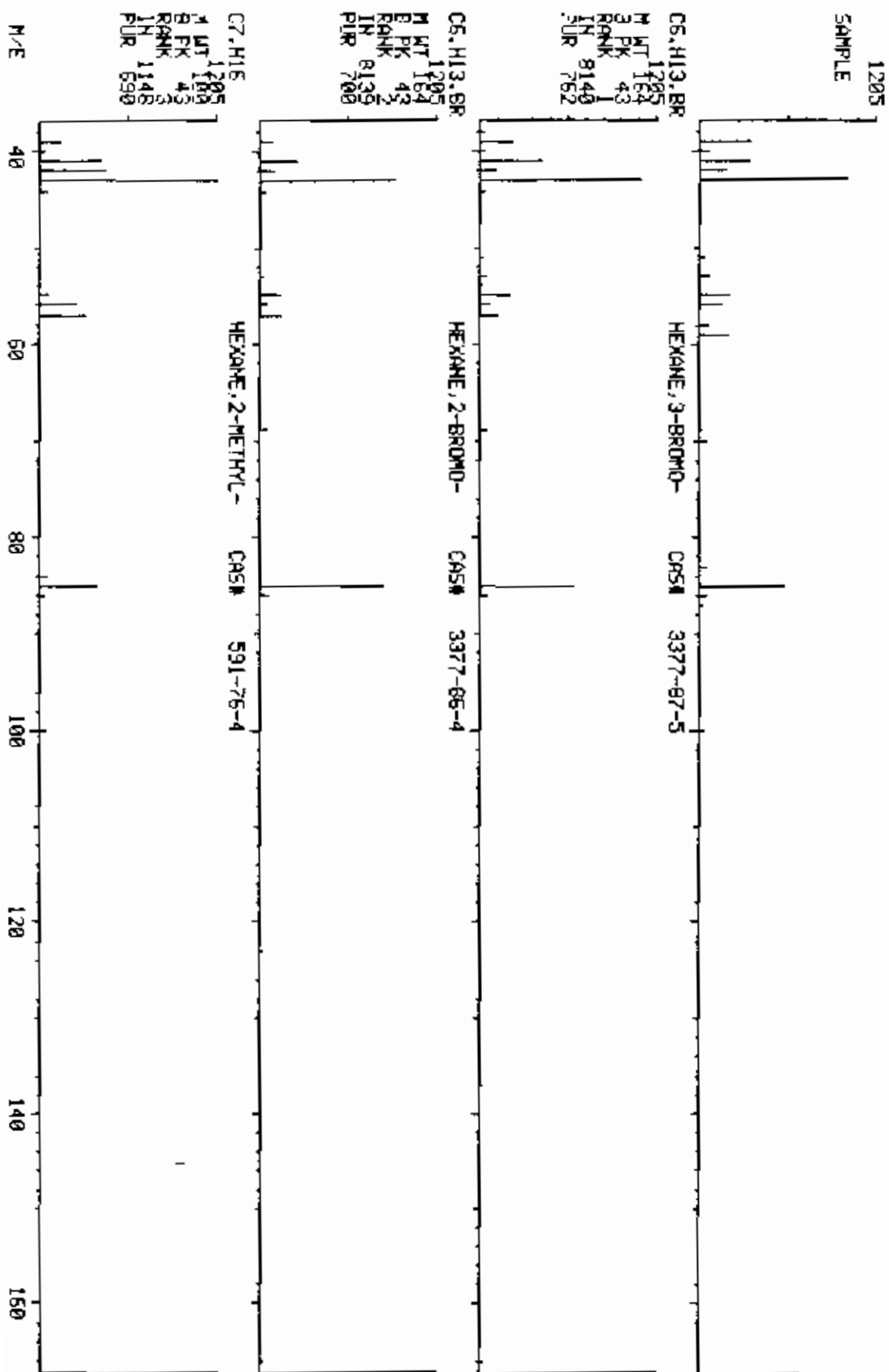


LIBRARY SEARCH
11/15/89 20:21:00 + 5:55
SAMPLE: SML CCM 302174 10# 738001-13 CASE# 18410 ON #19
ENHANCED (S 158 2M 0T)

COMPUCHEM LABS

DATA: CN002174B18 # 554

BASE M/E: 43
RIG: 5983.



LAB INSTRUCTIONS:
INORGANICS GET J DEL'S - CASERRA-789 SDG#317
SHIP AS A CASE

RECEIPT DATE 11/15/89 CASE#: 18410 5 DUE DATE:
VOA J0 J J30 J D0 J (:13
GC/MS WORKSHEET COMPUchem#: 302174 J20 J J40 J D20 J (:10

GC/MS; VOA; WATER EPA SOW 2/88

Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

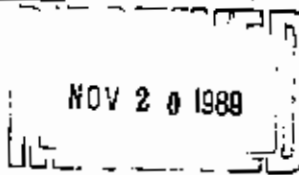
=====

SAMPLE ID#: 738001-13

=====

GC/MS ANALYSIS

Amount Purged: 5mls or Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename 80891116A19 Disk ()
Blank Filename CC891116A18 Disk ()
Standard Filename CS891116A15 Disk ()
Sample Filename CW002174B18 Disk ()



ANALYST(S): Injection WJL/ML Work-up Low 9/ML

GC/MS REVIEW

CONDITION
CODE

<u>OK</u>

Entry Codes OK, JS, SM, 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, QT, VC, FO, SM

Disposition: Complete
 Reinject Neat
 Dilute (:1)

Extraneous Peak Search Results:
of Peaks Found: 2

Quality Assurance Notice(s):
Notices Required 0



COMMENTS:

GC/MS Review OK Date 11/12/89 Auditor SN/Daguerre Date 11/18/89

REPORT INTEGRATION
Final Reportable Package(s): CW002174B18 Total # of Injections: 1

QA COMMENTS:

Initials _____ Date ____/____/____

FINAL REVIEW: Initials _____ Date ____/____/____

AC1004 (05/89)

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	373	42700	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)				BDL	10
248	114 I	1,4-DIFLUBROBENZENE (IS)	501	165000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLORO BENZENE (IS)	868	147000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	73	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#37			43.9	88. %	
247	95 S	BROMOFLUOROBENZENE			45.6	91. %	
233	98 S	D8-TOLUENE WE#59			47.4	95. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY OK Smith
(GC/MS DATA REVIEWER)DATE 11-17-89

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP				QUANT	REPORTED	DETECT.
#	M/E F	COMPOUND NAME	SCAN	REPORT	AMOUNT	LIMIT
				VALUE	(UG/L)	(UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)			BDL	5
CHECKSUMS:						
	3979.		1742	354700.	286.7	274.

CORRECTED/REVIEWED BY

C. J. Smith
(GC/MS DATA REVIEWER)

DATE

11-17-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	43.9	50.0	88.	76-114	X	
41	247	BROMOFLUOROBENZENE	45.6	50.0	91.	86-115	X	
42	233	D8-TOLUENE WE#59	47.4	50.0	95.	88-110	X	

* ADVISORY SURROGATE ONLY

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

CORRECTION FACTOR CALCULATION:

5000 UL

 VOLUME OF SAMPLE PURGED (UL)

5000 UL = 5.000 ML

 5000. (UL) = 5.000 (ML)

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION B

CORRECTED/REVIEWED BY Oksted
 (GC/MS DATA REVIEWER)

DATE 11.17.85

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-14

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302175
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002175B1B
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	7	
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001-14

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 102175
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002175B18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 6 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

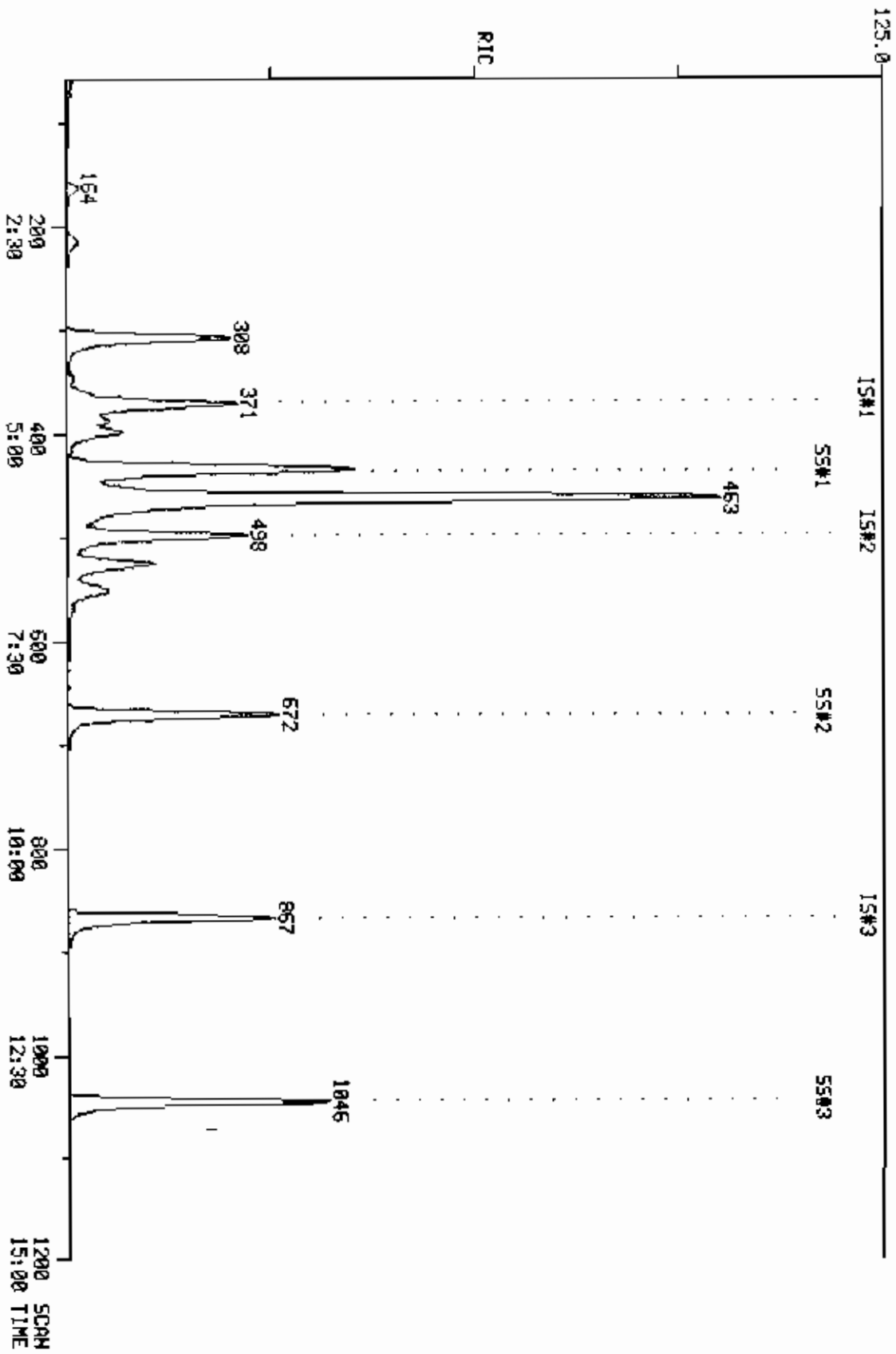
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.85	57	J
2.	TRANSDIMETHYLEXETANE ISOMER	4.83	13	J
3.	TRANSDIMETHYLQXETANE ISOMER	4.97	18	J
4. 1072-47-5	1,3-DIOXOLANE,4-METHYL-	5.78	210	J
5. 2935-44-6	2,5-HEXANEDIOL	6.55	25	J
6. 3377-87-5	HEXANE,3-BROMO-	6.90	13	J

COMPUchem LABS

COMPUchem DATA: 08002175818 SCANS 59 TO 1200

RIC
11/16/89 21:05:00
SAMPLE: SML CC# 302175 ID# 738001-14 CASE# 18410 ON #18
COND5.:

221750.



QUANTITATION REPORT FILE: CN002175818
 DATA: CN002175818.T1
 11/16/89 21:05:00
 SAMPLE: 5ML CC# 302175 ID# 738001-14 CASE# 18410 ON #18
 CONDS.:
 SUBMITTED BY: 18 ANALYST: 1009

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

- | NO | NAME |
|----|--|
| 1 | *234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1 |
| 2 | 221 CHLOROMETHANE <74-87-3> WE#2 |
| 3 | 231 VINYL CHLORIDE <75-01-4> WE#3 |
| 4 | 220 BROMOMETHANE <78-83-9> WE#4 |
| 5 | 209 CHLOROETHANE <75-00-3> WE#5 |
| 6 | 216 1,1-DICHLOROETHENE <75-35-4> WE#8 |
| 7 | 254 CARBON DISULFIDE <75-15-0> WE#9 |
| 8 | 252 ACETONE (2-PROPANONE) <67-64-1> WE#13 |
| 9 | *248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14 |
| 10 | 222 METHYLENE CHLORIDE <75-09-2> WE#16 |
| 11 | 226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17 |
| 12 | 214 1,1-DICHLOROETHANE <75-34-3> WE#19 |
| 13 | 257 VINYL ACETATE <108-05-4> WE#20 |
| 14 | 237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21 |
| 15 | 253 2-BUTANONE <78-93-3> WE#22 |
| 16 | 211 CHLOROFORM <67-66-2> WE#23 |
| 17 | 227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24 |
| 18 | 206 CARBON TETRACHLORIDE <56-23-5> WE#25 |
| 19 | 203 BENZENE <71-43-2> WE#26 |
| 20 | 215 1,2-DICHLOROETHANE <107-06-2> WE#27 |
| 21 | *270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29 |
| 22 | 229 TRICHLOROETHENE <79-01-6> WE#30 |
| 23 | 217 1,2-DICHLOROPROPANE <78-87-5> WE#31 |
| 24 | 212 BROMODICHLOROMETHANE <75-27-4> WE#33 |
| 25 | 218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35 |
| 26 | 256 4-METHYL-2-PENTANONE <108-01-1> WE#36 |
| 27 | 225 TOLUENE <108-85-3> WE#37 |
| 28 | 250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38 |
| 29 | 228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39 |
| 30 | 224 TETRACHLOROETHENE <127-18-4> WE#41 |
| 31 | 255 2-HEXANONE <591-78-6> WE#42 |
| 32 | 208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43 |
| 33 | 207 CHLOROBENZENE <108-90-7> WE#45 |
| 34 | 219 ETHYLBENZENE <100-41-4> WE#47 |
| 35 | 330 M,P-XYLENE <133-02-7> WE#48 |
| 36 | 239 O-XYLENE <133-02-7> WE#49 |
| 37 | 251 STYRENE <100-42-5> WE#50 |
| 38 | 205 BROMOFORM <75-25-2> WE#51 |
| 39 | 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54 |
| 40 | *258 O4-1,2-DICHLOROETHANE WE#57 |
| 41 | *247 BROMOFLUOROBENZENE <460-00-4> WE#58 |
| 42 | *233 D8-TOLUENE WE#59 |

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	370	4:37	1	1.000	A BB	39363.	50.000 UG/L	16.47
2	50	NOT FOUND							

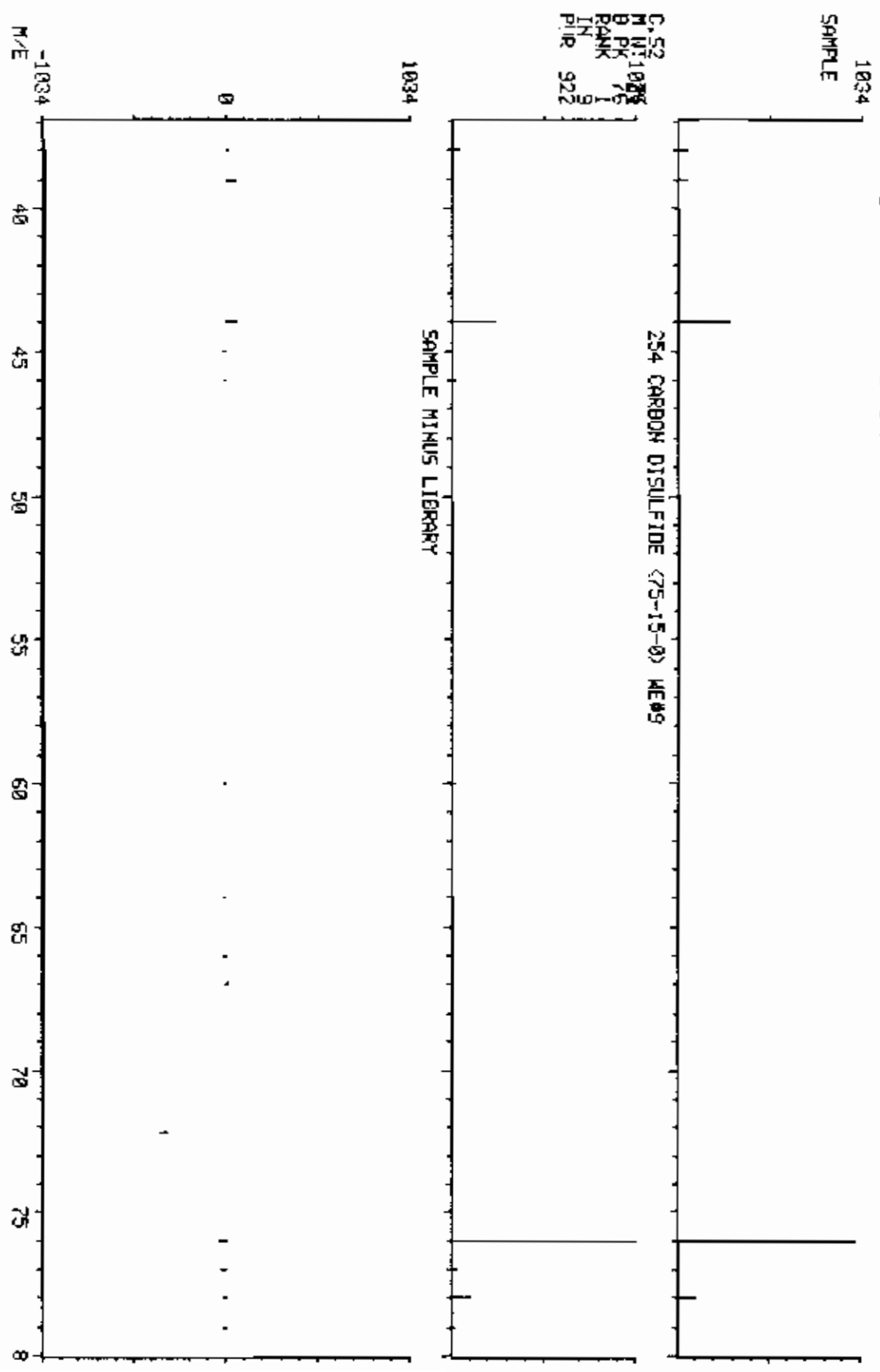
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	164	2:03	1	0.443	A 88	17023.	6.933 UG/L	2.28 ^Y
8	43	172	2:09	1	0.465	A*88	307.	1.121 UG/L	0.37 ^W
9	114	498	6:13	9	1.000	A 88	154147.	50.000 UG/L	16.47
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	867	10:50	21	1.000	A 88	140393.	50.000 UG/L	16.47
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	437	5:28	1	1.181	A 88	64063.	46.113 UG/L	15.17
41	95	1046	13:04	21	1.206	A 88	85791.	45.695 UG/L	15.05
42	98	672	8:24	21	0.775	A 88	153276.	53.817 UG/L	17.72

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:40	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51		10.000			50.00		0.638	
3	0:57		10.000			50.00		0.600	
4	1:08		10.000			50.00		0.957	
5	1:13		10.000			50.00		0.573	
6	1:57		5.000			50.00		1.251	
7	2:04	0.99	5.000	0.09	6.93	50.00	0.432	3.119	0.14
8	2:09	1.00	10.000	0.05	1.12	50.00	0.008	0.348	0.02
9	6:16	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	2:38		5.000			50.00		1.309	
11	2:57		5.000			50.00		1.203	
12	3:32		5.000			50.00		1.928	
13	3:48		10.000			50.00		0.497	
14	4:21		5.000			50.00		1.487	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	4:31		10.000			50.00		0.096	
16	4:54		5.000			50.00		2.453	
17	4:56		5.000			50.00		0.548	
18	5:08		5.000			50.00		0.567	
19	5:28		5.000			50.00		0.728	
20	5:37		5.000			50.00		1.733	
21	10:52	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	6:30		5.000			50.00		0.437	
23	6:51		5.000			50.00		0.295	
24	7:25		5.000			50.00		0.535	
25	8:08		5.000			50.00		0.471	
26	8:33		15.000			50.00		0.332	
27	8:32		5.000			50.00		0.602	
28	9:09		5.000			50.00		0.217	
29	9:24		5.000			50.00		0.302	
30	9:22		5.000			50.00		0.502	
31	10:01		15.000			50.00		0.192	
32	9:58		5.000			50.00		0.556	
33	10:55		5.000			50.00		0.940	
34	11:13		5.000			50.00		0.402	
35	11:27		5.000			50.00		0.700	
36	12:07		5.000			50.00		0.640	
37	12:12		5.000			50.00		1.073	
38	12:28		5.000			50.00		0.411	
39	13:41		5.000			50.00		0.439	
40	5:29	1.00	5.000	0.24	46.11	50.00	1.628	1.765	0.92
41	13:07	1.00	5.000	0.24	45.69	50.00	0.611	0.669	0.91
42	8:26	1.00	5.000	0.16	53.82	50.00	1.092	1.014	1.08

COMPUCHEM LABS
LIBRARY SEARCH
11/15/89 21:05:00 + 2:03
SAMPLE: SML CCM 302175 ID# 738001-14 CASE# 18410 ON #18
ENHANCED (S 1SB 2N 0T)
DATA: CN002175818 # 184
BASE M/E: 76
R1C: 2107.

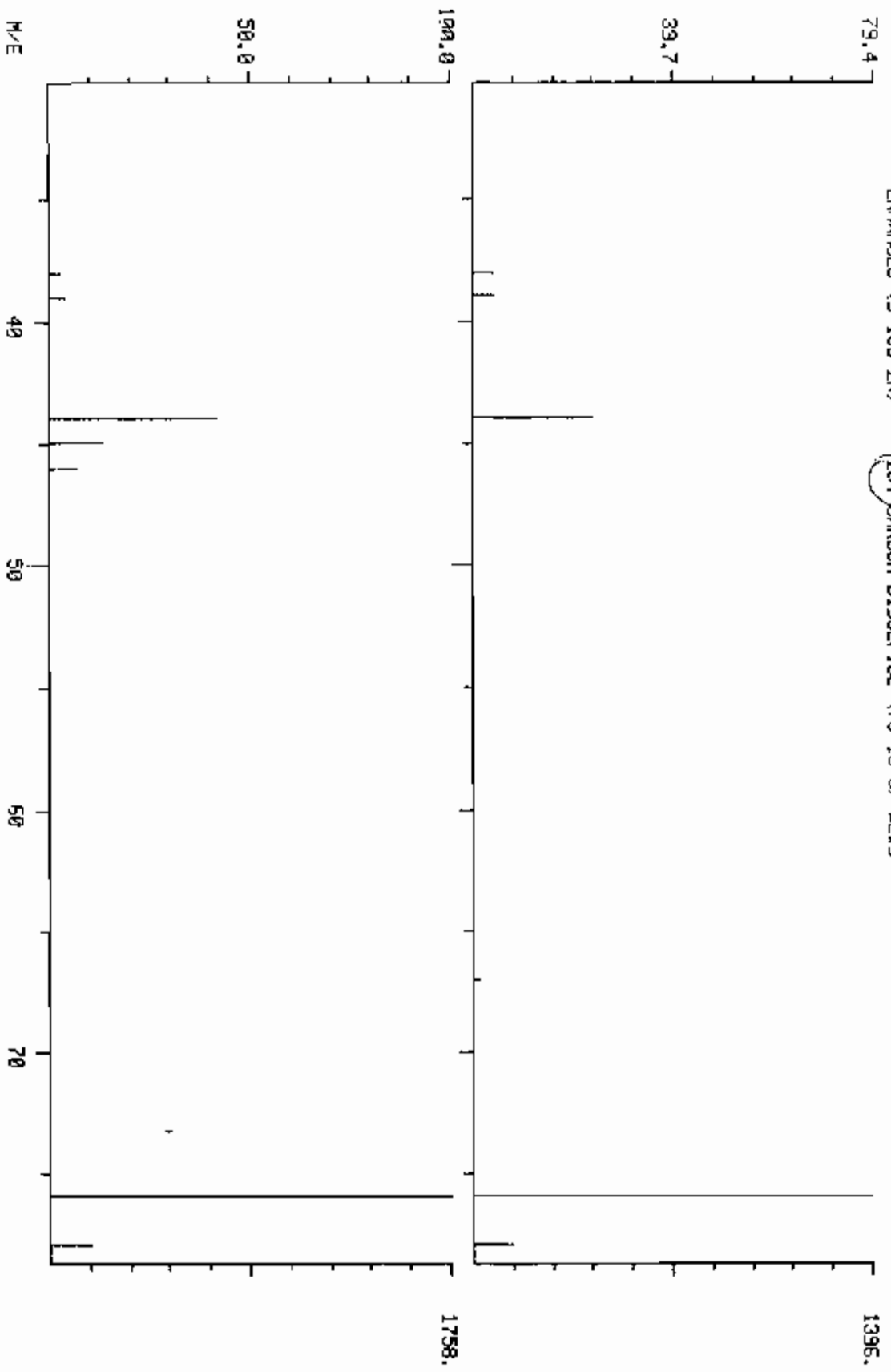
1034
SAMPLE
C. 52
M N: 1008
B PK 76
RANK 1
IN 9
PIR 922



QUAL MASS SPECTRUM
11/15/89 21:05:00 + 2:03
SAMPLE: 5ML CO# 302175 TD# 238001-14 CASE# 18410 ON #18
ENHANCED (S 158 ZN) (254) CARBON DISULFIDE (75-15-0) W#19

COMPUCHEM LABS

DATA: CN002175B18 #164 BASE M/E: 76/ 76
RIC: 2107.7 3139.

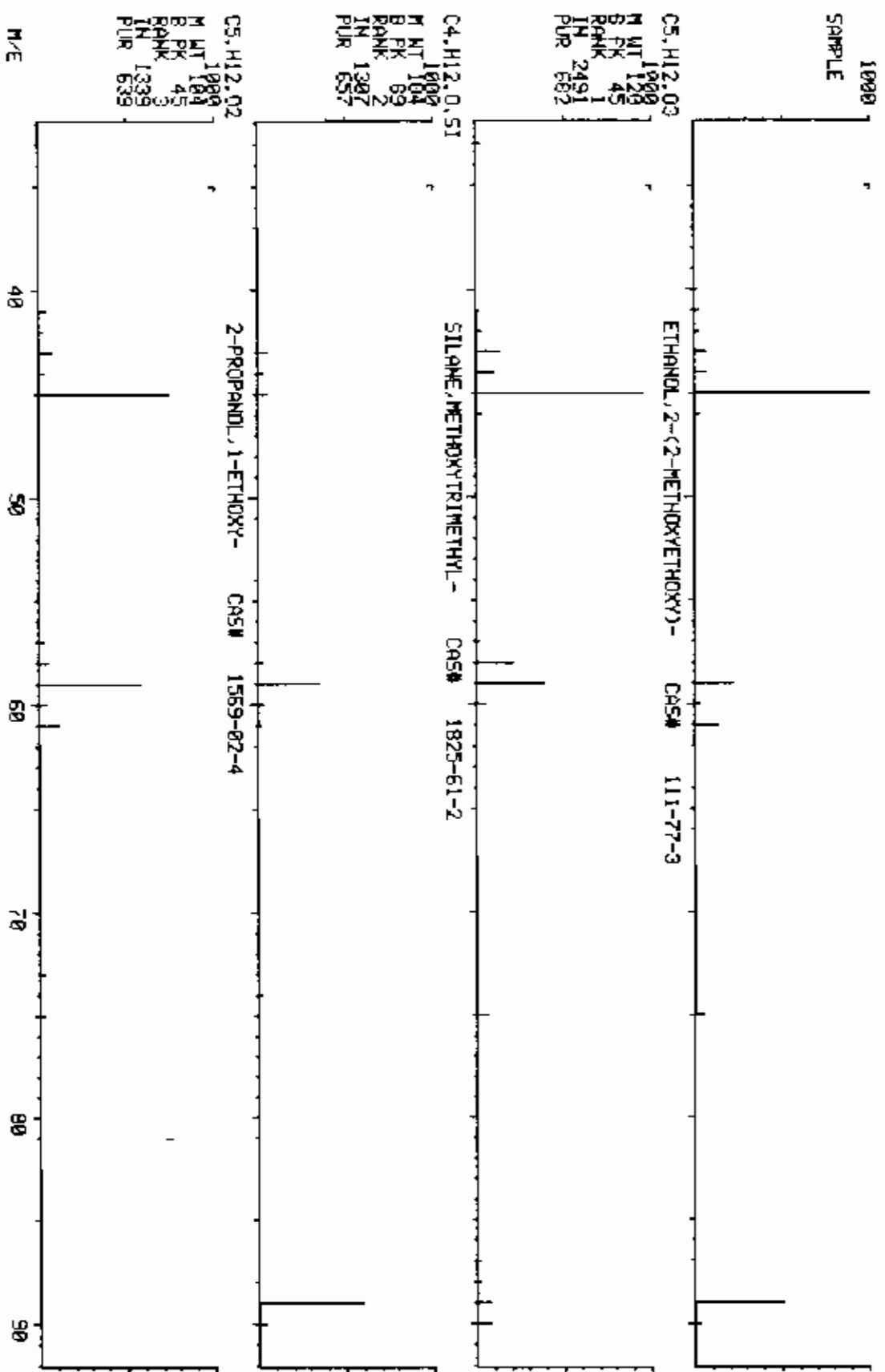


LIBRARY SEARCH
11/16/89 21:05:00 + 3:51
SAMPLE: SML CCM 302175 ID# 738001-14 CASE# 18410 DN #19
ENHANCED (5 158 2N 0T)

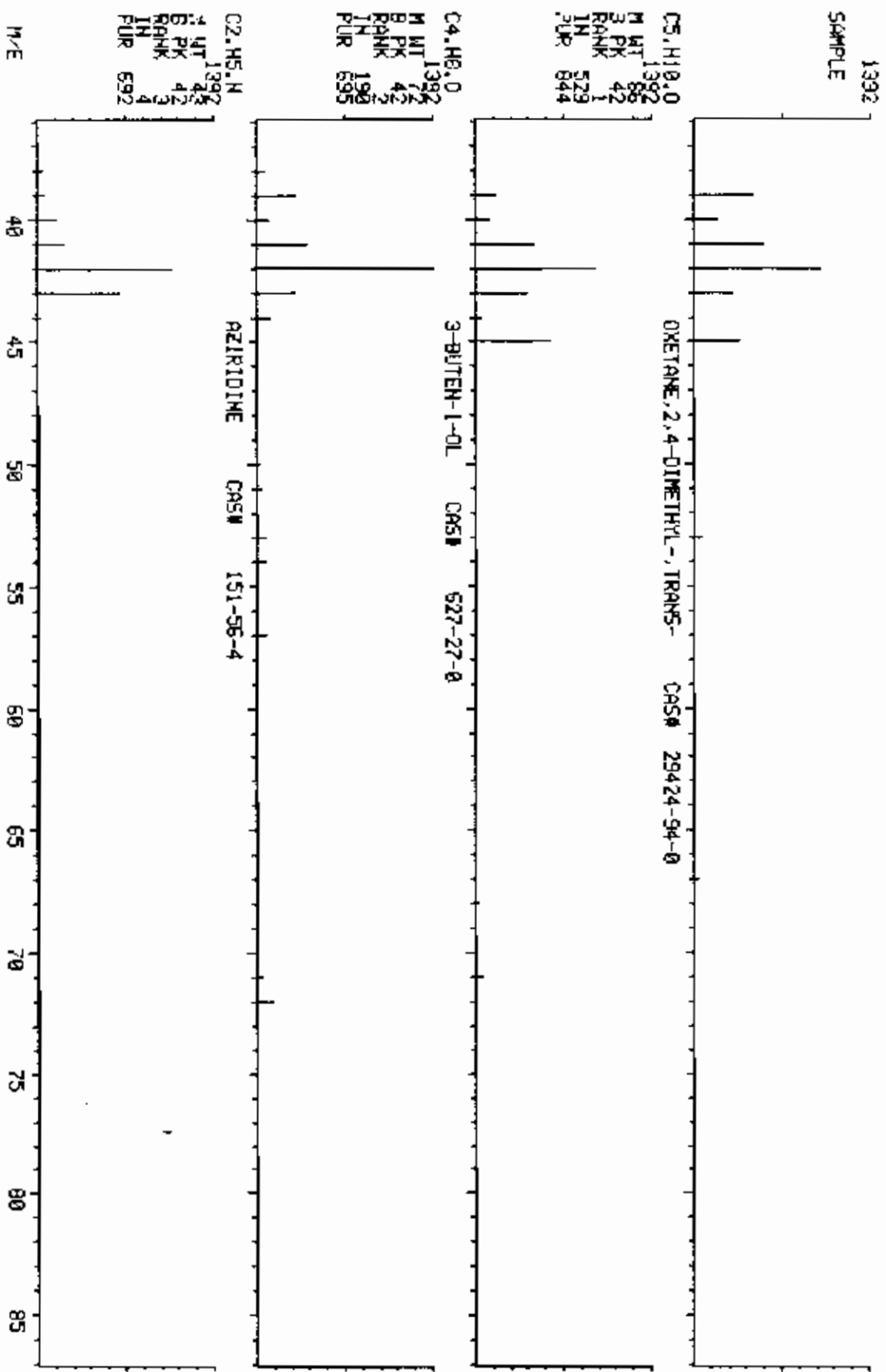
COMPUCHEM LABS

DATA: C0002175B10 # 308

BASE M/E: 45
RIC: 34559.



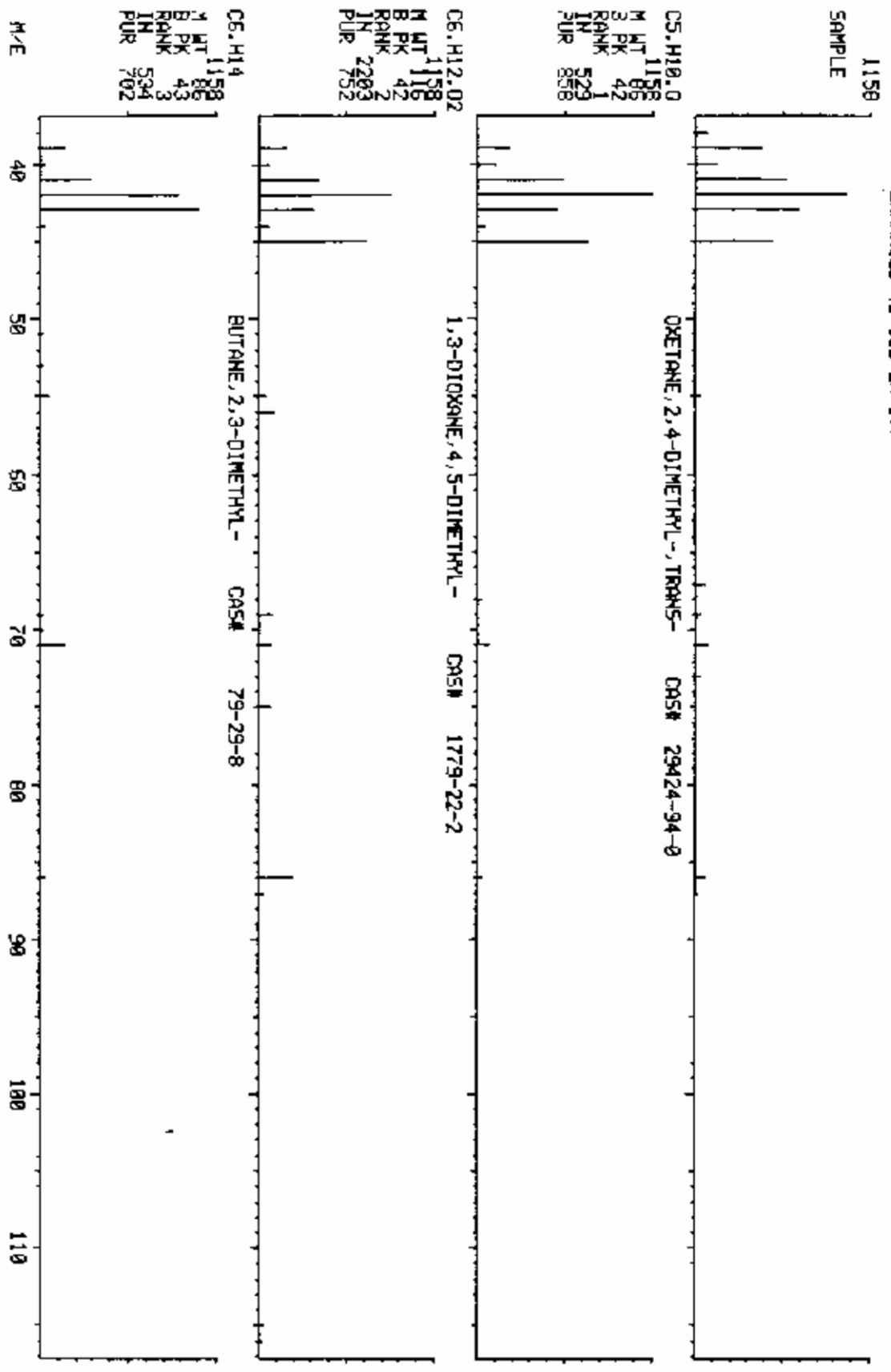
COMPUCHEN LABS
 DATA: CN002175818 # 387 BASE M/E: 42
 11/15/89 21:05:00 + 4:50 RIC: 3199.
 SAMPLE: 5HL CC# 382175 ID# 738001-14 CASE# 18410 ON #18
 ENHANCED (S 158 ZN 817)



LIBRARY SEARCH
 11/16/89 21:05:00 + 4:58
 SAMPLE: SML CCM 302175 ID# 738001-14 CASE# 18410 ON #18
 ENHANCED (5 158 2N 0T)

COMPUCHEM LABS

DATA: C0002175018 # 398 BASE M/E: 42
 RIC: 7831.



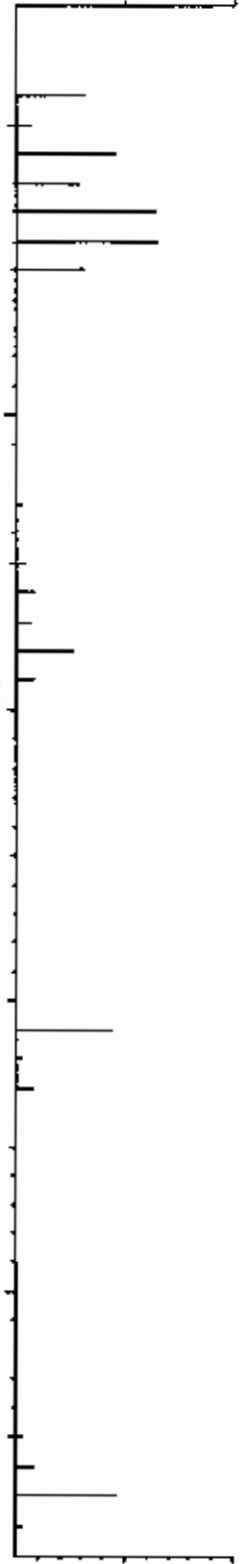
LIBRARY SEARCH
 11/16/89 21:05:00 + 5:47
 SAMPLE: SML C08 302175 ID# 730001-14 CASE# 18410 ON #18
 ENHANCED (S 150 2N 0T)

COMPUCHEM LABS

DATA: C0802175B18 # 463

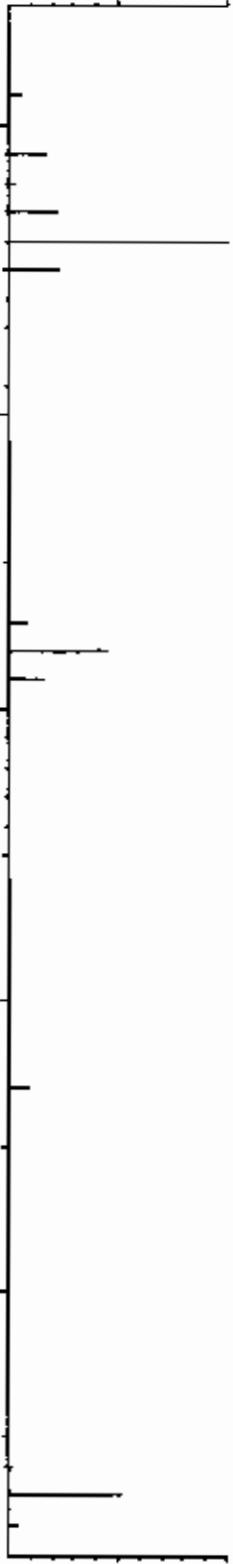
BASE M/E: 44
 RIC: 125695.

1570
 SAMPLE



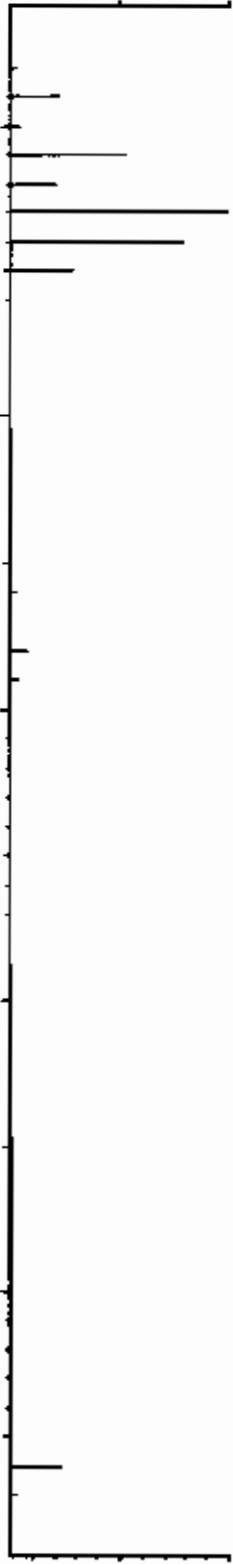
1,3-DIOXOLANE, 4-METHYL- CAS# 1072-47-5

C4.H8.O2
 M WT 1570
 B PK 80
 RANK 44
 IN 1
 PUR 713



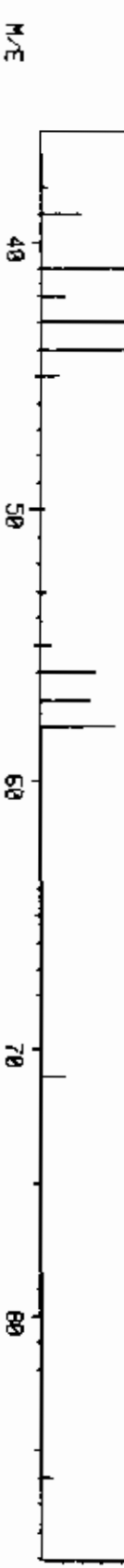
PROPANE, 2-(ETHENYLOXY)- CAS# 926-65-8

C5.H10.O
 M WT 1570
 B PK 86
 RANK 49
 IN 2
 PUR 514
 687



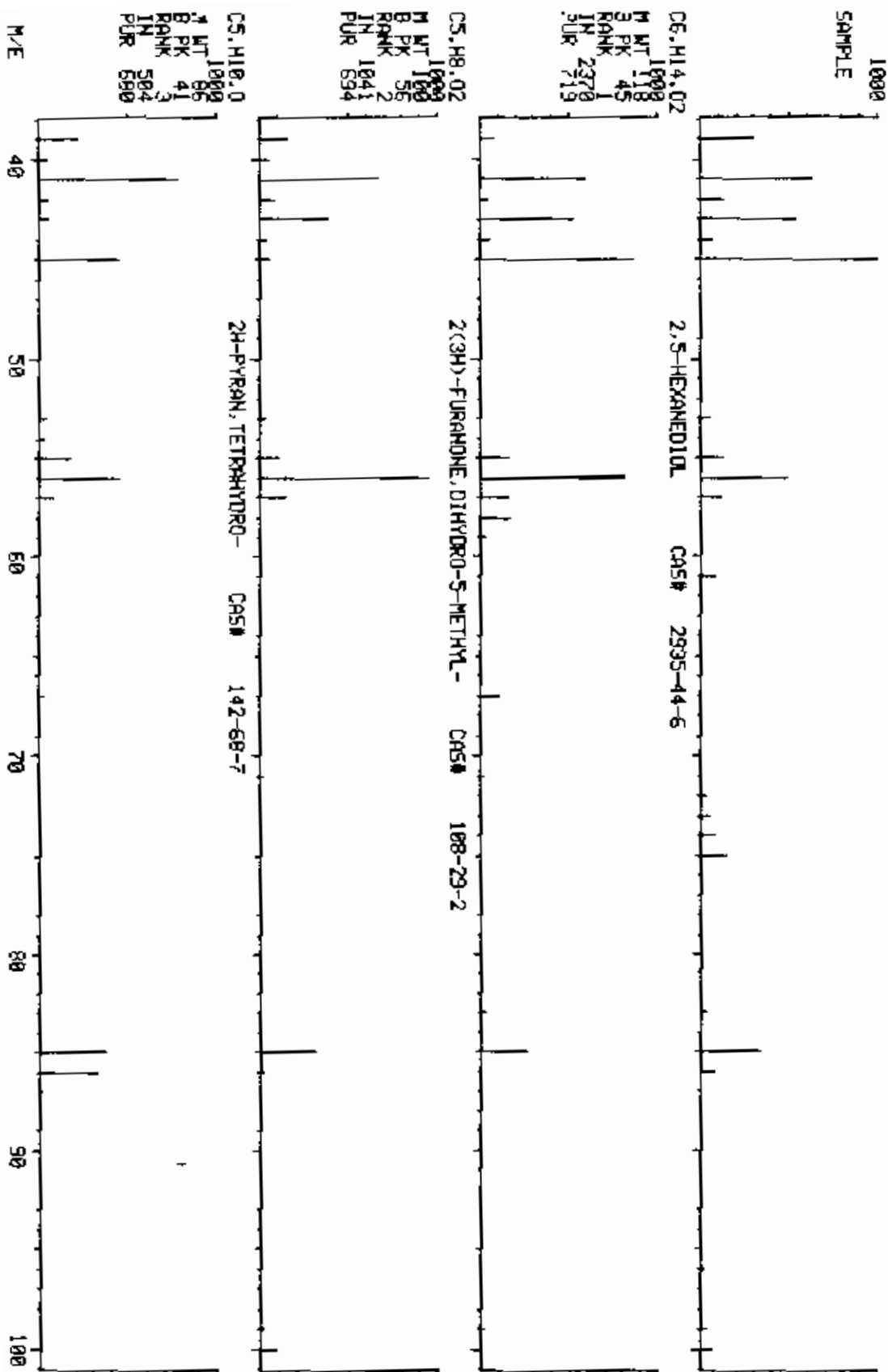
BUTANAL, 3-METHYL- CAS# 590-96-3

C5.H10.O
 M WT 1570
 B PK 96
 RANK 44
 IN 3
 PUR 506
 652



LIBRARY SEARCH
11/15/89 21:05:00 + 6:34
SAMPLE: SNL CQ# 302175 10# 738001-14 CASE# 18410 OH #10
ENHANCED (S 158 2N 0T)

COMPUCHEM LABS
DATA: CN002175018 # 525
BASE M/E: 45
RIG: 14559.

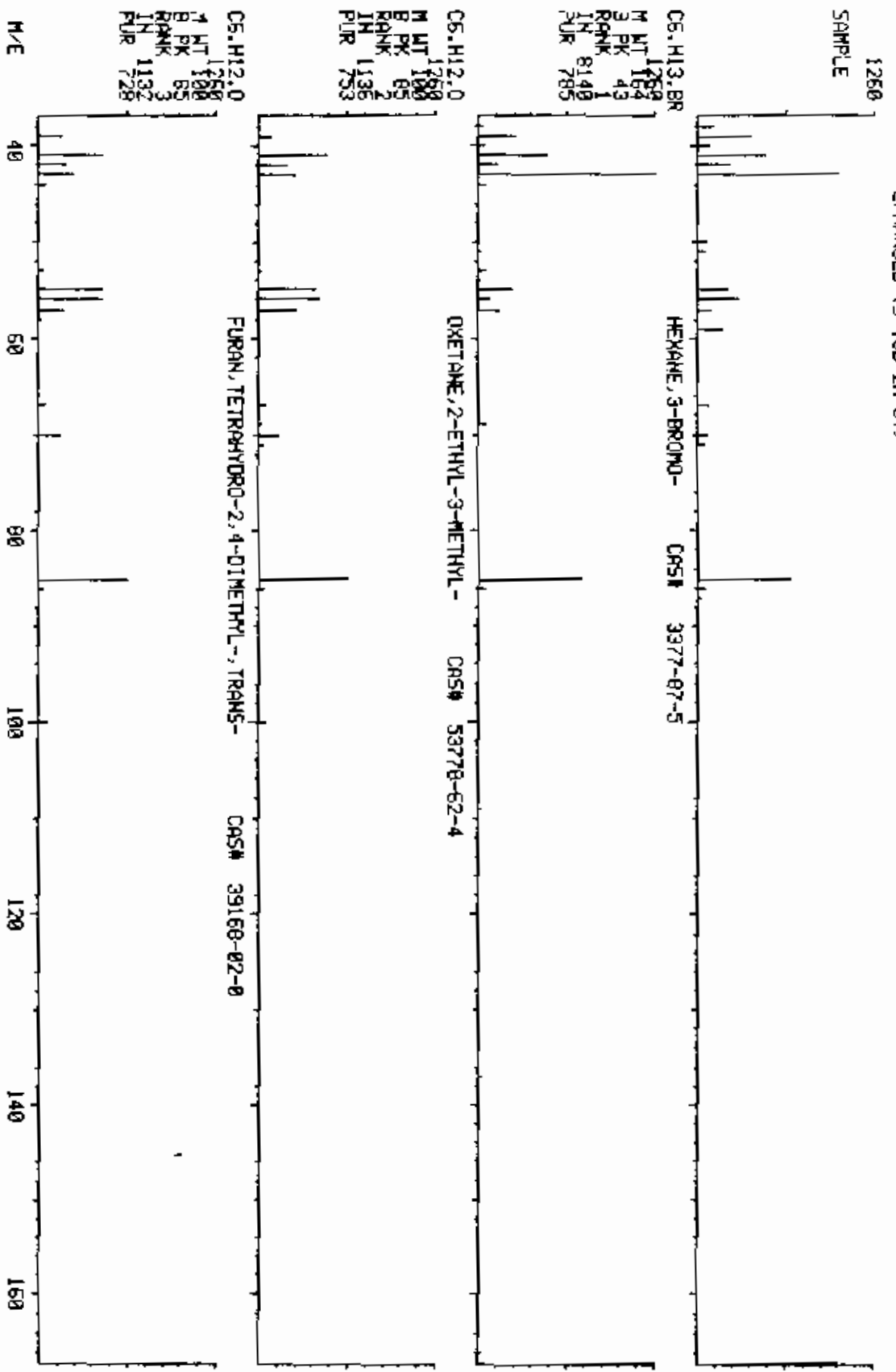


LIBRARY SEARCH
11/16/89 21:05:00 + 6:54
SAMPLE: SML CC# 302175 ID# 739891-14 CASE# 18410 OH #18
ENHANCED (S ISB 2N 8T)

COMPUCHEN LABS

DATA: CN002175818 # 552

BASE M/E: 43
RIC: 5399.



LAB INSTRUCTIONS:
INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

RECEIPT DATE 11/15/89 CASE#: 18410 5 DUE DATE:
VOA J0 J J30 J D0 J (:13
GC/MS WORKSHEET COMPUCHEM#: 302175 J20 J J40 J D20 J (:13

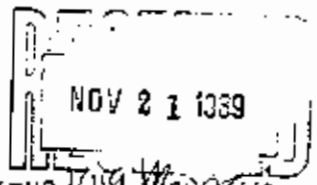
GC/MS; VOA; WATER EPA 504 2/88
Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

=====

SAMPLE ID#: 738001-14

GC/MS ANALYSIS

Amount Purged: [V] Smls or [] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename B0891116218 Disk ()
Blank Filename CC891116218 Disk ()
Standard Filename S891116218 Disk ()
Sample Filename CN002175.B.K Disk ()



ANALYST(S): Injection 1009 Mesopore Work-up 1009 Mesopore

GC/MS REVIEW

CONDITION CODE [] Entry Codes OK, JS, SM, SL, SH, JA, DA
[OK]
Non-Entry Codes IM, IL, IH, SW, CT, CS, PC, NR
IF, LA, DI, CO, RH, DW, SI, SF
UP, BB, OT, VC, FO, SM

Disposition: [] Complete
[] Reinject Neat
[] Dilute (:13

Extraneous Peak Search Results:
of Peaks Found: 06



Quality Assurance Notice(s):
Notices Required 0

COMMENTS:

GC/MS Review OK Date 11/20/89 Auditor SPUDONES Date 11/21/89

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CNO-81E

QA COMMENTS:

=====

INITIALS _____ DATE ____/____/____
FINAL REVIEW: INITIALS _____ DATE ____/____/____
AC1004 (05/89)

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CHP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	370	39400	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE			6.9	7	5
252	43	ACETONE (2-PROPANONE)			4.4	BDL	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	498	154000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLORO BENZENE (IS)	867	140000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	63	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			46.1	92. %	
247	95 S	BROMOFLUOROBENZENE			45.7	91. %	
233	98 S	D8-TOLUENE WE#59			53.8	108. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY

OK/MS
(GC/MS DATA REVIEWER)

DATE

11-17-89

CMP	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:							
		3979.	1735	333400.	303.6		299.

CORRECTED/REVIEWED BY *Quaker*
(GC/MS DATA REVIEWER)DATE 11/17/89

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	238	D4-1,2-DICHLOROETHANE WE#57	46.1	50.0	92.	76-114	X	
41	247	BROMOFLUOROBENZENE	45.7	50.0	91.	86-115	X	
42	233	D8-TOLUENE WE#59	53.8	50.0	108.	88-110	X	

* ADVISORY SURROGATE ONLY

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

CORRECTION FACTOR CALCULATION:

5000 UL

VOLUME OF SAMPLE PURGED (UL)

5000 UL
----- = 1.00 = -----
5000. (UL) 5.000 (ML)

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION 9

CORRECTED/REVIEWED BY *O.K. Stett*
(GC/MS DATA REVIEWER)

DATE 11/7/89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-15

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302150
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002150C19
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethane	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001-15

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 102150
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002150C18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column (pack/cap) CAP Dilution Factor: 1.0

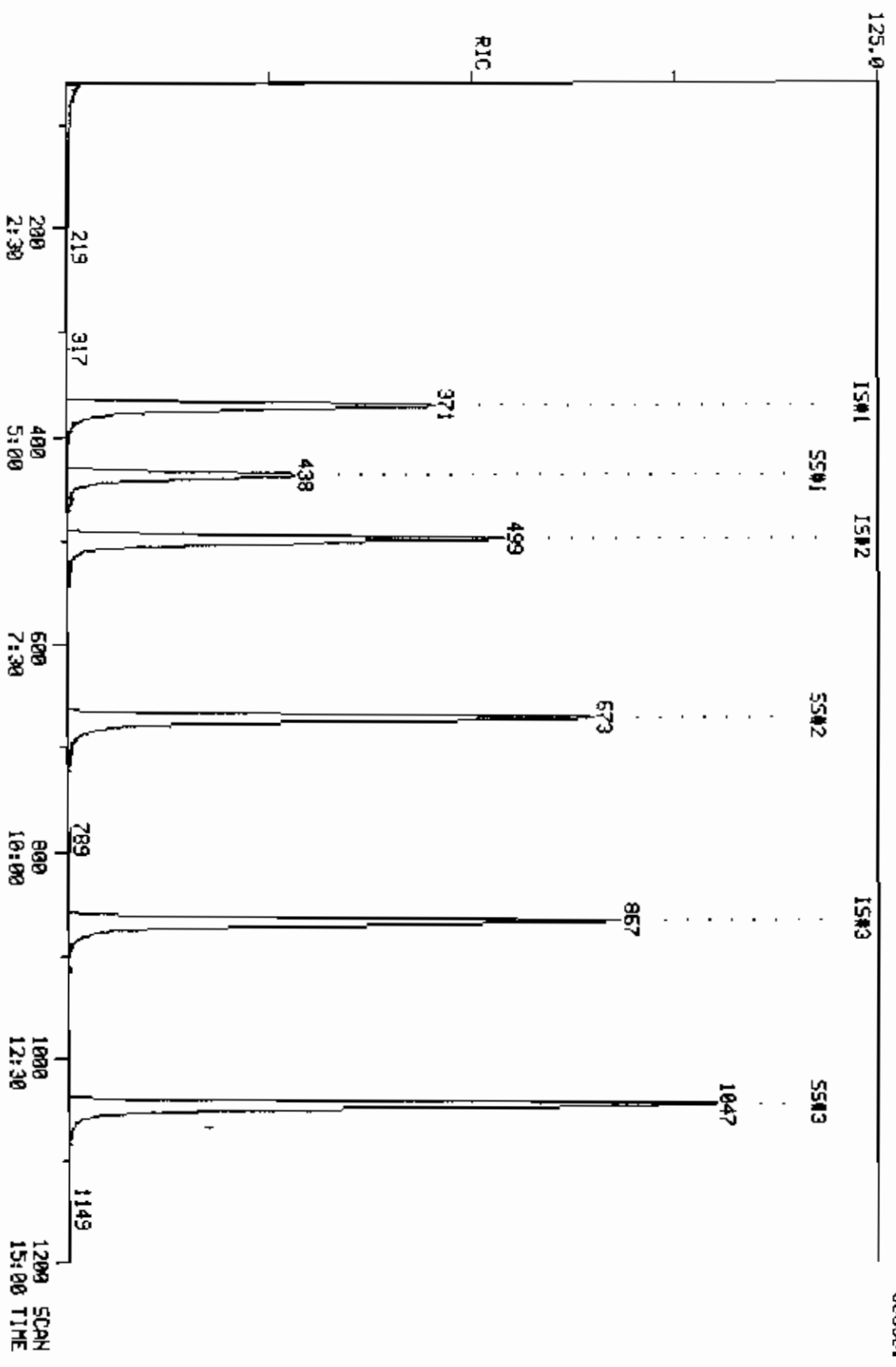
Number TICs found: 0 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COMPUCHEM LABS
COMPUCHEM DATA: CN002150C18 SCANS 61 TO 1200

RIC
11/16/89 7:53:00
SAMPLE: SML CC#302150 CASE#18418.5 EPA#738001-15 ON#18
COND. :

86880.



QUANTITATION REPORT FILE: CN002150C18
 DATA: CN002150C18.TI
 11/16/89 7:53:00
 SAMPLE: SML CC#302150 CASE#18410.5 EPA#738001-15 ON#18
 CONDS.:
 SUBMITTED BY: 18 ANALYST: 1422

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (16) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (19) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (15) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 OIBROMOCHLOROMETHANE, 124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 04-1,2-DICHLOROETHANE WE#57
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	*233 08-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RAT	METH	AREA (HGT)	AMOUNT	XTOT
1	128	371	4:38	1	1.000	A BY	44390.	50.000 UG/L	17.40
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	NOT FOUND							
9	114	499	6:14	9	1.000	A BB	164133.	50.000 UO/L	17.40
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	867	10:50	21	1.000	A BB	148002.	50.000 UG/L	17.40
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	438	9:28	1	1.181	A BB	64558.	43.965 UO/L	15.30
41	95	1047	13:05	21	1.208	A BB	86131.	44.735 UG/L	15.97
42	98	673	8:25	21	0.776	A BB	144331.	48.680 UG/L	16.94

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:43	0.98	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51		10.000			50.00		0.690	
3	0:58		10.000			50.00		0.593	
4	1:10		10.000			50.00		1.011	
5	1:14		10.000			50.00		0.577	
6	1:59		5.000			50.00		1.283	
7	2:07		5.000			50.00		2.964	
8	2:13		10.000			50.00		0.478	
9	6:19	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	2:42		5.000			50.00		1.330	
11	3:01		5.000			50.00		1.246	
12	3:36		5.000			50.00		2.057	
13	3:52		10.000			50.00		0.514	
14	4:25		5.000			50.00		1.428	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	4:37		10.000			50.00		0.098	
16	4:58		5.000			50.00		2.570	
17	5:00		5.000			50.00		0.569	
18	5:11		5.000			50.00		0.599	
19	5:31		5.000			50.00		0.768	
20	5:40		5.000			50.00		1.800	
21	10:54	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	6:34		5.000			50.00		0.460	
23	6:55		5.000			50.00		0.306	
24	7:28		5.000			50.00		0.566	
25	8:10		5.000			50.00		0.494	
26	8:36		15.000			50.00		0.345	
27	8:34		5.000			50.00		0.637	
28	9:11		5.000			50.00		0.233	
29	9:27		5.000			50.00		0.325	
30	9:25		5.000			50.00		0.485	
31	10:03		15.000			50.00		0.223	
32	10:01		5.000			50.00		0.584	
33	10:57		5.000			50.00		1.001	
34	11:14		5.000			50.00		0.432	
35	11:28		5.000			50.00		0.744	
36	12:09		5.000			50.00		0.653	
37	12:14		5.000			50.00		1.100	
38	12:29		5.000			50.00		0.429	
39	13:42		5.000			50.00		0.483	
40	5:33	0.99	5.000	0.24	43.97	50.00	1.454	1.654	0.88
41	13:07	1.00	5.000	0.24	44.73	50.00	0.582	0.650	0.89
42	8:29	0.99	5.000	0.16	48.68	50.00	0.975	1.002	0.97

LAB INSTRUCTIONS:
INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

RECEIPT DATE 11/15/89 CASE#: 18410 5 DUE DATE:

VOA J0] J30] D0] (:1)
GC/MS WORKSHEET COMPUCHER#: 302150 J20] J40] D20] (:1)

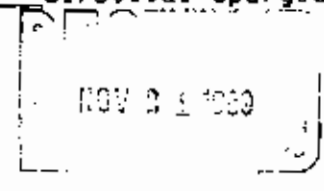
GC/MS; VOA; WATER EPA SOW 2/88

Sample Prep Code---000
Instrument Code----412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

SAMPLE ID#: 738001-15

GC/MS ANALYSIS

Amount Purged: [] Smls or [] Dilution ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BFB91116.C19 Disk (10523)
Blank Filename CC991116.C19 Disk ()
Standard Filename CS891116.C19 Disk ()
Sample Filename CND007150.C18 Disk ()



ANALYST(S): Injection 1422-16 Work-up 1422-16

GC/MS REVIEW

CONDITION CODE

OK

Entry Codes OK, J9, SM, 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, SR

Disposition: [] Complete
[] Reinject Neat
[] Dilute (:1)

Extraneous Peak Search Results:
of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required 0

COMMENTS:

GC/MS Review OK Date 11/20/89 Auditor STW/aww Date 11/21/89

REPORT INTEGRATION
Final Reportable Package(s): CND-18 Total # of Injections: 1

QA COMMENTS:

Initials Date / /

FINAL REVIEW: Initials Date / /
AQ1004 (05/89)

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	371	44400	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)				BDL	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	499	164000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROBENZENE (IS)	867	148000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M,P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			44.0	88. %	
247	95 S	BROMOFLUOROBENZENE			44.7	89. %	
233	98 S	D8-TOLUENE WE#59			48.7	97. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY

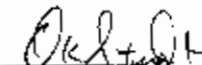
Dic. Smith
(QC/MS DATA REVIEWER)

DATE

11-20-89

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:							
		3979.	1737	356400.		287.4	274.

CORRECTED/REVIEWED BY



(GC/MS DATA REVIEWER)

DATE

11/20/89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-16

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302154
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002154A1B
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001-16

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
Matrix: (soil/water) WATER Lab Sample ID: 302154
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002154A18
Level: (low/med) LOW Date Received: 11/15/89
% Moisture: not dec. _____ Date Analyzed: 11/16/89
Column (pack/cap) CAP Dilution Factor: 1.0

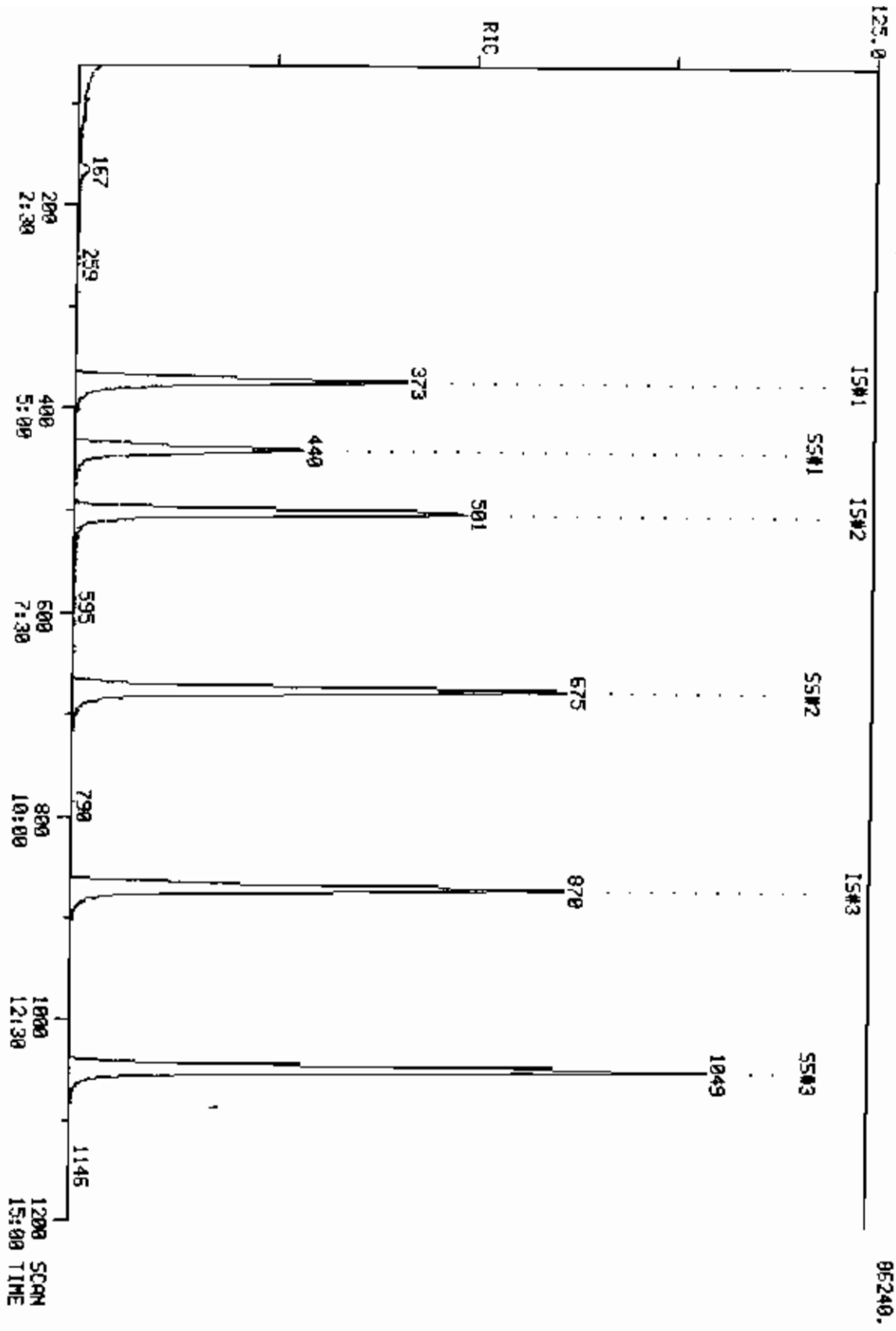
Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

RIC
11/16/89 0:39:00
SAMPLE: SML EPA ID#738001-15 CC#302154 CASE#18418 5 DN#18
COND5.1

COMPUchem LABS
COMPUchem DATA: CN002154A18 SCANS 62 TO 1200



QUANTITATION REPORT FILE: CN002154A18
 DATA: CN002154A18.TI
 11/16/89 8:39:00
 SAMPLE: 5ML EPA ID#739001-16 CC#302154 CASE#18410 5 DN#18
 CONDS.:
 SUBMITTED BY: IB ANALYST: 1577

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	*233 D8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	372	4:39	1	1.000	A BY	39726.	50.000 UG/L	16.53
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA:HEIGHT	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	167	2:05	1	0.449	A BB	6979.	2.963 UG/L	0.98
8	43	NOT FOUND							
9	114	501	6:16	9	1.000	A BB	144571.	50.000 UG/L	16.53
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	870	10:52	21	1.000	A BB	132636.	50.000 UG/L	16.53
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	439	5:29	1	1.180	A BB	64075.	48.759 UG/L	16.12
41	95	1049	13:07	21	1.206	A BB	83469.	48.374 UG/L	15.99
42	98	675	8:26	21	0.776	A BB	139223.	52.398 UG/L	17.32

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R.FAC	R.FAC(L)	RATIO
1	4:43	0.98	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51		10.000			50.00		0.690	
3	0:58		10.000			50.00		0.593	
4	1:10		10.000			50.00		1.011	
5	1:14		10.000			50.00		0.577	
6	1:59		5.000			50.00		1.283	
7	2:07	0.99	5.000	0.09	2.96	50.00	0.176	2.964	0.06
8	2:13		10.000			50.00		0.478	
9	6:19	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	2:42		5.000			50.00		1.330	
11	3:01		5.000			50.00		1.246	
12	3:36		5.000			50.00		2.057	
13	3:52		10.000			50.00		0.514	
14	4:25		5.000			50.00		1.428	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	4:37		10.000			50.00		0.098	
16	4:58		5.000			50.00		2.570	
17	5:00		5.000			50.00		0.569	
18	5:11		5.000			50.00		0.599	
19	5:31		5.000			50.00		0.768	
20	5:40		5.000			50.00		1.800	
21	10:34	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	6:34		5.000			50.00		0.460	
23	6:55		5.000			50.00		0.306	
24	7:28		5.000			50.00		0.566	
25	8:10		5.000			50.00		0.494	
26	8:36		15.000			50.00		0.345	
27	8:34		5.000			50.00		0.637	
28	9:11		5.000			50.00		0.233	
29	9:27		5.000			50.00		0.325	
30	9:25		5.000			50.00		0.485	
31	10:03		15.000			50.00		0.223	
32	10:01		5.000			50.00		0.584	
33	10:57		5.000			50.00		1.001	
34	11:14		5.000			50.00		0.432	
35	11:28		5.000			50.00		0.744	
36	12:09		5.000			50.00		0.653	
37	12:14		5.000			50.00		1.100	
38	12:29		5.000			50.00		0.429	
39	13:42		5.000			50.00		0.483	
40	5:33	0.99	5.000	0.24	48.76	50.00	1.613	1.654	0.98
41	13:07	1.00	5.000	0.24	48.37	50.00	0.629	0.650	0.97
42	8:29	0.99	5.000	0.16	52.40	50.00	1.050	1.002	1.05

LIBRARY SEARCH
11/16/89 8:39:00 + 2:05
SAMPLE: SML EPA ID#738001-16
ENHANCED (S 158 2N 0T)

COMPUCHEM LABS
DATA: CN002154A10 # 167

BASE M/E: 76
RIC:

1034
SAMPLE

C.S2
M 41 1000
B PK 76
RANK 1
IN 9
PUR 966

254 CARBON DISULFIDE (75-15-0) ME#9

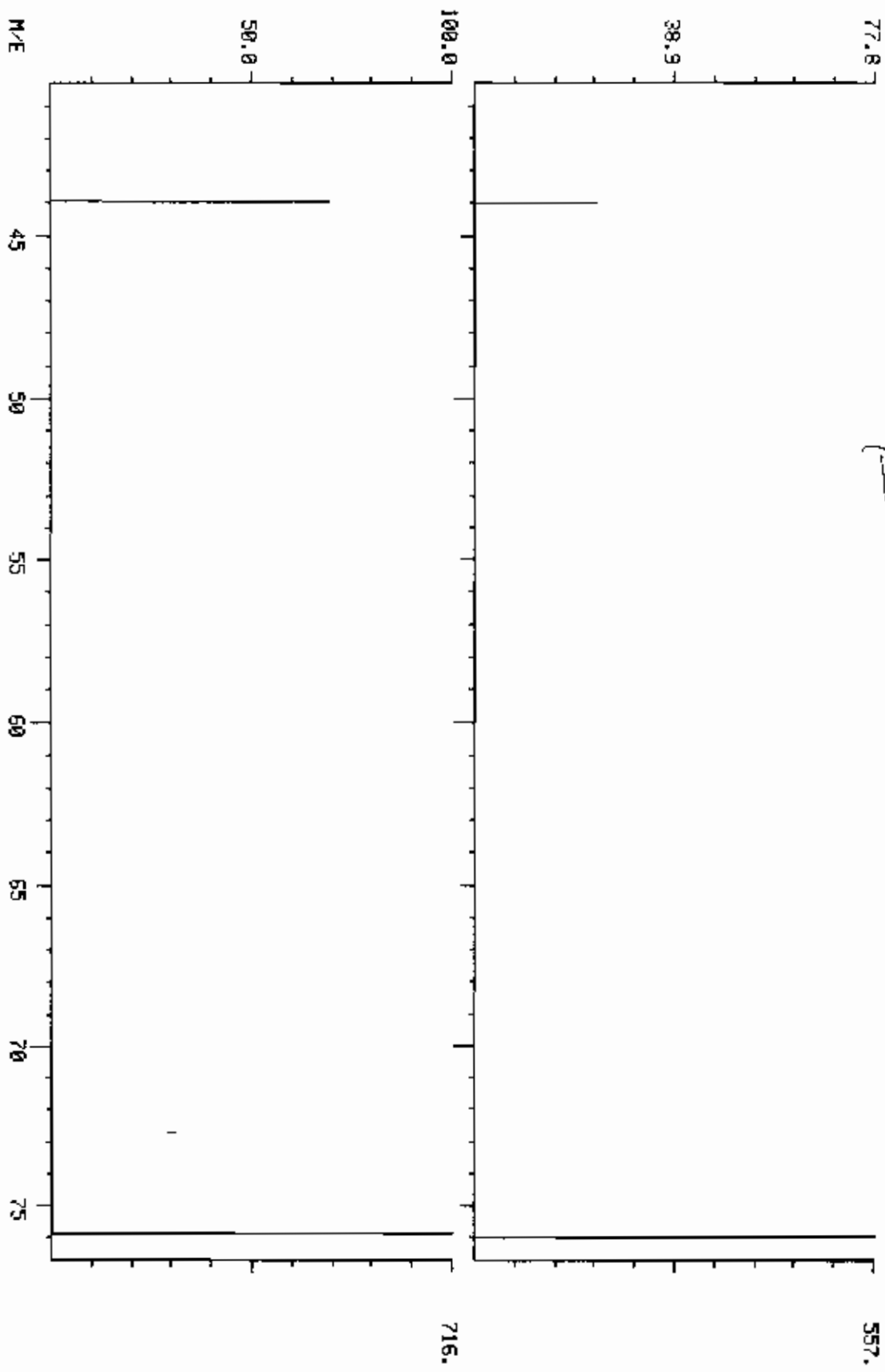
SAMPLE MINUS LIBRARY



DUAL MASS SPECTRUM
11/16/89 8:39:00 + 2:05
SAMPLE: SML EPA 10M733001-16 C00302154 CASEM18410 5 ON#18
ENHANCED (5 1SB 2M) 254 CARBON DISULFIDE (75-15-0) MEN#9

COMPUCHEM LABS

DATA: C0032154A10 #167 BASE M/E: 76/ 76
RIC: 725.7 1209.



LAB INSTRUCTIONS:
INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

RECEIPT DATE 11/15/89 CASE#: 18410 5 DUE DATE:
VOA J1 J3 J D1 C :13
GC/MS WORKSHEET COMPUCHEN#: 302154 J2 J4 J D2 J C :13

GC/MS; VOA; WATER EPA 509 2/88

Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

=====

SAMPLE ID#: 738001-16

=====

GC/MS ANALYSIS

Amount Purged: Sals or Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BFB9116C11 Disk (10229)
Blank Filename CC9116CU Disk ()
Standard Filename CS9116C12 Disk ()
Sample Filename CA1002154A18 Disk ()

NOV 21 1989

ANALYST(S): Injection 1517/RL

Work-up JS

GC/MS REVIEW

CONDITION CODE

OK

 Entry Codes OK, JS, SM, 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, FD, SM

Extraneous Peak Search Results:
of Peaks Found: 0

Disposition: Complete
 Reinject Neat
 Dilute (:13)

Quality Assurance Notice(s):
Notices Required 0

COMMENTS:

GC/MS Review OK Date 11/20/89 Auditor DW Date 11/21/89

REPORT INTEGRATION
Final Reportable Package(s): CA10-A18 Total # of Injections: 1

QA COMMENTS:

Initials _____ Date ____/____/____
FINAL REVIEW: Initials _____ Date ____/____/____
AC1004 (05/89)

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	129 I	BROMOCHLOROMETHANE (IS)	372	39700	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE			3.0	3J	5
252	43	ACETONE (2-PROPANONE)				BDL	10
249	114 I	1,4-DIFLUOROBENZENE (IS)	501	144000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROBENZENE (IS)	870	133000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M,P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			4E.8	98. %	
247	95 S	BROMOFLUOROBENZENE			48.4	97. %	
233	98 S	D8-TOLUENE WE#59			52.4	105. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY OK/Decker
(GC/MS DATA REVIEWER)

DATE 11-20-89

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:							
		3979.	1743	316700.		302.6	303.

CORRECTED/REVIEWED BY OK/LLH
 (GC/MS DATA REVIEWER)

DATE 11-20-99

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-17

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 102172
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CR002172B18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	1	J
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001-17

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 1B410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302172
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CR002172B18
 Level: (low/med) LQW Date Received: 11/15/89
 ‡ Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

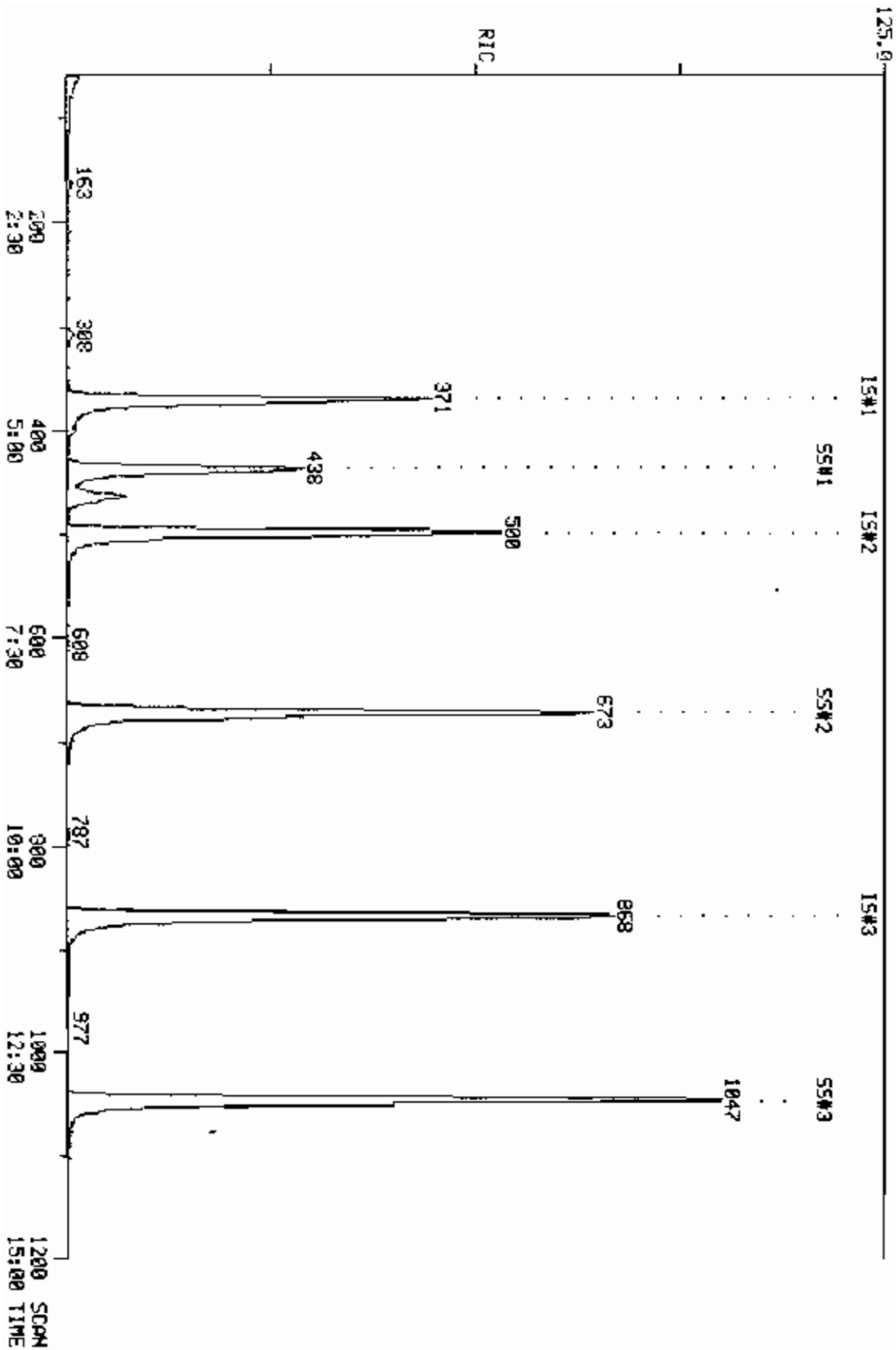
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1072-47-5	1,3-DIOXOLANE,4-METHYL-	5.80	6.0	J

COMPUCHEN LABS

COMPUCHEN DATA: CR002172B18 SCANS 60 TO 1200

RIC
11/16/89 19:33:00
SAMPLE: SML JCV 738001-17 CRSEM 18418 ON #19 (C11H20R172)
CONDOS: 1 JCM PLUTONIA

82400.



QUANTITATION REPORT FILE: CR002172B1B
 DATA: CR002172B1B.TI
 11/16/89 19:33:00
 SAMPLE: 5ML 20# 738001-17 CASE# 18410 DN #18 CC # 302172
 CONDS.: ID 014-01797 CFS 11/17/89
 SUBMITTED BY: 1B ANALYST: 1009

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (18) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (18) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROENZENE (18) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	259 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE , 124-A8-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M, P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57
41	*247 BROMOFLUOROBENZENE <46D-00-4> WE#58
42	*233 D8-TOLUENE WE#59

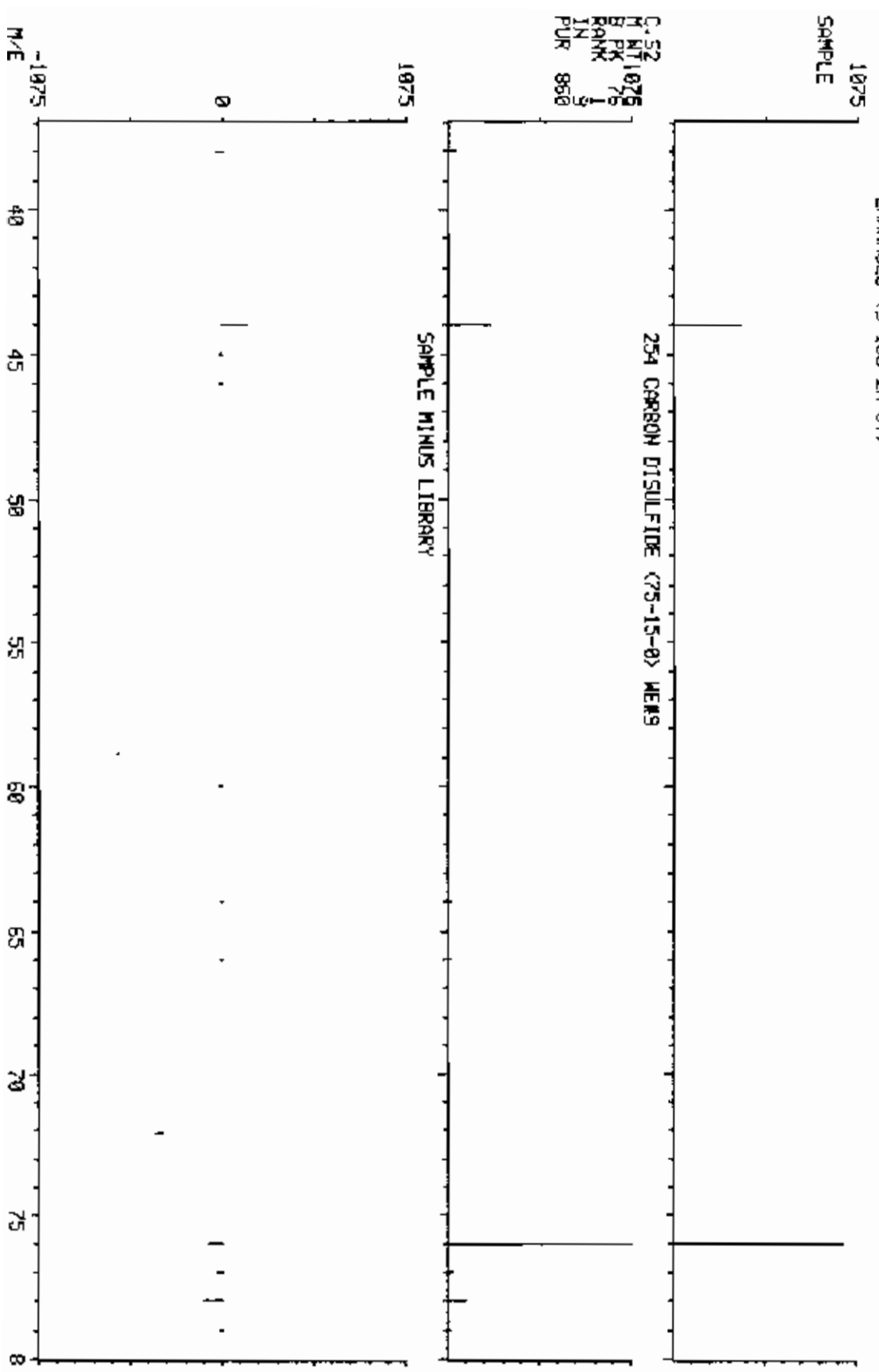
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	371	4:38	1	1.000	A BB	40946.	50.000 UG/L	17.60
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	163	2:02	1	0.439	A BB	2711.	1.061 UG/L	0.37 %
8	43	NOT FOUND							
9	114	499	6:14	9	1.000	A BB	147552.	50.000 UG/L	17.60
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	867	10:50	21	1.000	A BB	137258.	50.000 UG/L	17.60
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	438	5:28	1	1.181	A BB	60728.	42.022 UG/L	14.79
41	95	1048	13:06	21	1.209	A BB	80770.	44.003 UG/L	15.49
42	98	673	8:25	21	0.776	A BB	130881.	47.004 UG/L	16.55

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:40	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51		10.000			50.00		0.638	
3	0:57		10.000			50.00		0.600	
4	1:08		10.000			50.00		0.957	
5	1:13		10.000			50.00		0.573	
6	1:57		5.000			50.00		1.251	
7	2:04	0.98	5.000	0.09	1.06	50.00	0.066	3.119	0.02
8	2:09		10.000			50.00		0.348	
9	6:16	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	2:38		5.000			50.00		1.309	
11	2:57		5.000			50.00		1.203	
12	3:32		5.000			50.00		1.928	
13	3:48		10.000			50.00		0.497	
14	4:21		5.000			50.00		1.487	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	4:31		10.000			50.00		0.096	
16	4:54		5.000			50.00		2.453	
17	4:56		5.000			50.00		0.948	
18	5:08		5.000			50.00		0.567	
19	5:28		5.000			50.00		0.728	
20	5:37		5.000			50.00		1.733	
21	10:52	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	6:30		5.000			50.00		0.437	
23	6:51		5.000			50.00		0.295	
24	7:25		5.000			50.00		0.535	
25	0:08		5.000			50.00		0.471	
26	8:03		15.000			50.00		0.332	
27	8:32		5.000			50.00		0.602	
28	9:09		5.000			50.00		0.217	
29	9:24		5.000			50.00		0.302	
30	9:22		5.000			50.00		0.502	
31	10:01		15.000			50.00		0.192	
32	9:58		5.000			50.00		0.556	
33	10:55		5.000			50.00		0.940	
34	11:13		5.000			50.00		0.402	
35	11:27		5.000			50.00		0.700	
36	12:07		5.000			50.00		0.640	
37	12:12		5.000			50.00		1.073	
38	12:28		5.000			50.00		0.411	
39	13:41		5.000			50.00		0.439	
40	5:29	1.00	5.000	0.24	42.02	50.00	1.483	1.765	0.64
41	13:07	1.00	5.000	0.24	44.00	50.00	0.588	0.669	0.88
42	8:26	1.00	5.000	0.16	47.00	50.00	0.954	1.014	0.94

COMPUCHEM LABS
 DATA: CR002172B19 # 163 BASE M/E: 76
 11/16/89 19:33:00 + 2:02
 SAMPLE: SM18028 736001-17 CASE# 10418 ON #1800 W 202 V72 JTL H110177
 R1C: 369.
 ENHANCED (S 158 2N 0T)



COMPUCHEM LABS

DUAL MASS SPECTRUM

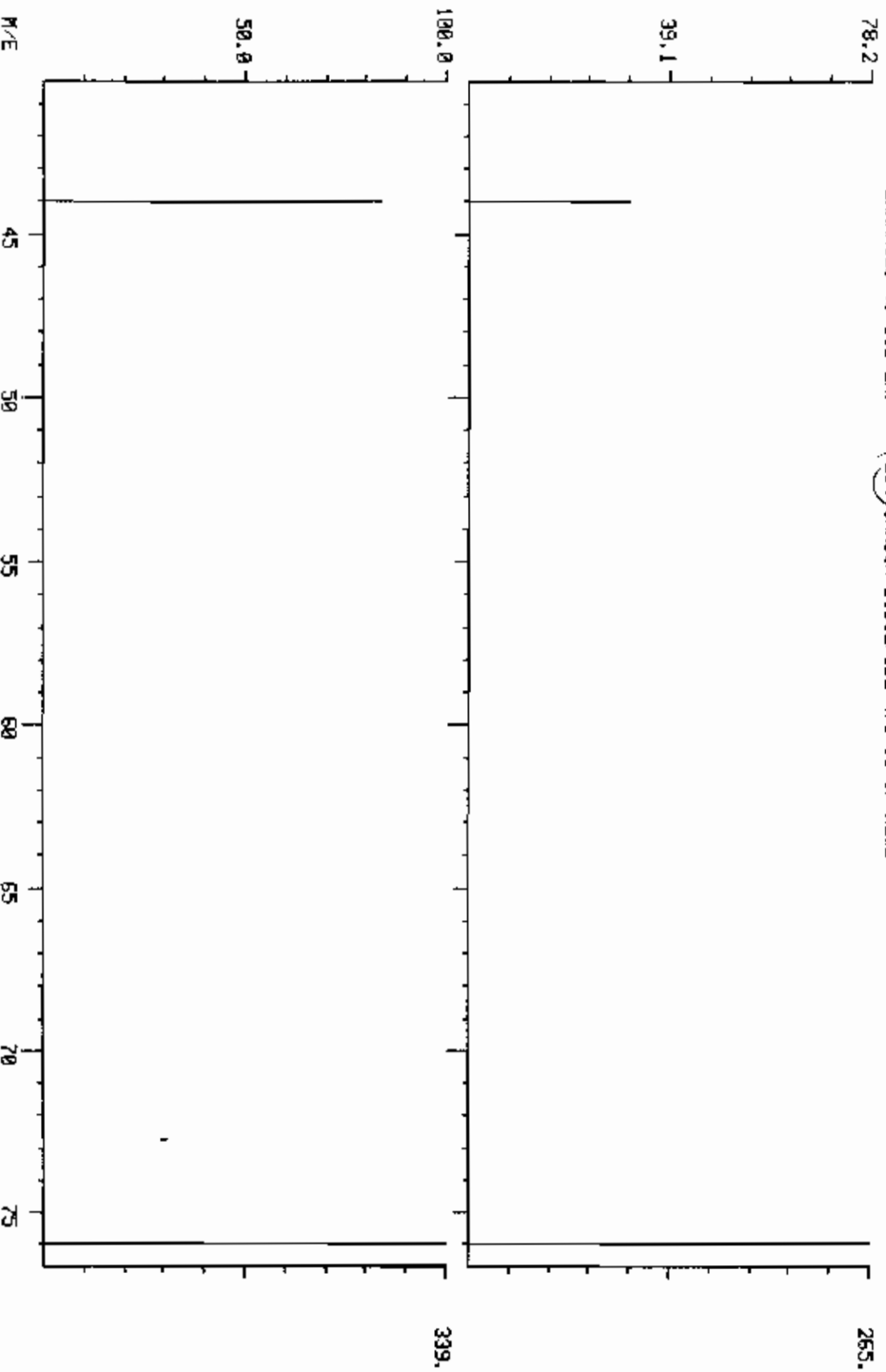
DATA: CR002172B18 #163

BASE M/E: 76 76
RIC: 369.1 522.

11/16/89 19:33:00 + 2:02

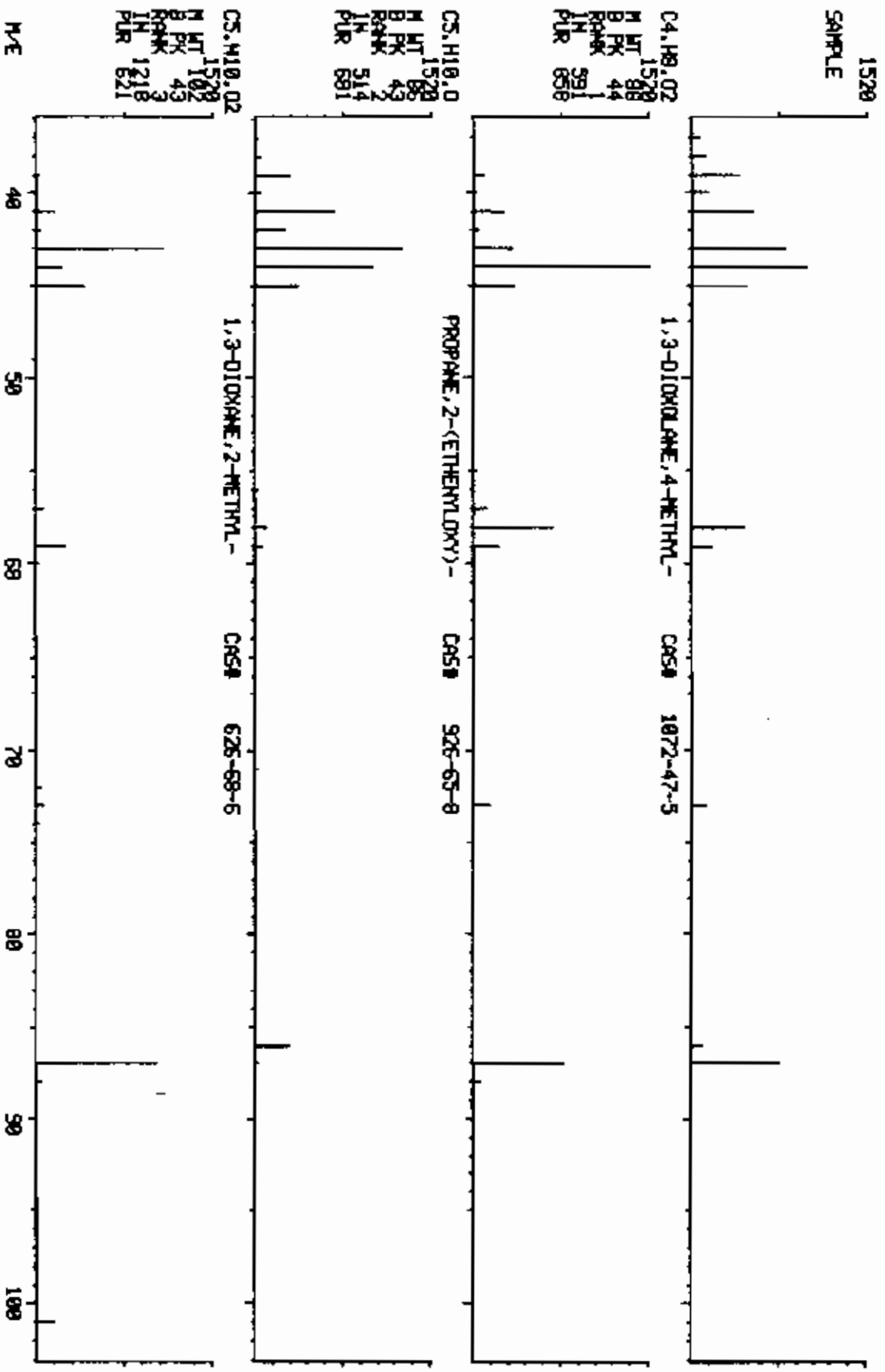
SAMPLE: SPLDPT1 738001-17 CASE# 10410 ON #18 CCA 302172

INSTR: 254 CARBON DISULFIDE (75-15-0) W#9



LIBRARY SEARCH
 11/16/89 19:33:08 + 5:49
 SAMPLE: 5M10027 738901-17 CASE# 18410 ON #18000-552 (V2) null peaks
 ENHANCED (5 158 2N 8T)

COMPUCHEN L885
 DATA: C0002172810 # 464
 BASE M/E: 44
 RIC: 3535.



LAB INSTRUCTIONS:

RECEIVED DATE
GC/MS WORKSHEET

CASE#: 18410
COMPUCHEM#: 302172R

OJL J J3L J DL J (:1)
J2L J J4L J D2L J (:1)

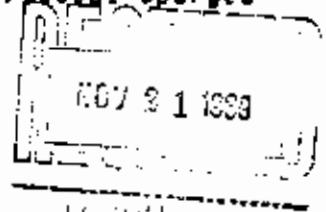
GC/MS; VDA; WATER; EPA 804 2/88

Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----194
Internal Std-----036

SAMPLE ID: 738001-17

GC/MS ANALYSIS

Amount Purged: Sals or I] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BC891116A18 Disk ()
Blank Filename CC891116A18 Disk ()
Standard Filename CC891116A18 Disk ()
Sample Filename C8002172B18 Disk ()



ANALYSY(B): Injection 11/21/88 Work-up 11/21/88

GC/MS REVIEW

CONDITIDM
CODE

JA
OK

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

OK/OK

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

Disposition: Complete
 Reinject Neat
 Dilute (:1)

Extraneous Peak Search Results:
of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required 0



COMMENTS:

GC/MS Review OK Date 11/21/88 Auditor SDW/OK Date 11/21/88

REPORT INTEGRATION

Final Reportable Package(s): C80-218

Total # of Injections: 2

QA COMMENTS:

Initials _____ Date ____/____/____

FINAL REVIEW:

Initials _____ Date ____/____/____

AC1004 (03/89)

CMP #	H/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	120	I	BROMOCHLOROMETHANE (IS)	371	40900	50.0	
221	50		CHLOROMETHANE				BDL 10
231	62		VINYL CHLORIDE				BDL 10
220	94		BROMOMETHANE				BDL 10
209	64		CHLOROETHANE				BDL 10
216	96		1,1-DICHLOROETHENE				BDL 5
254	76		CARBON DISULFIDE		1.1	1.0	5
252	43		ACETONE (2-PROPANONE)				BDL 10
248	114	I	1,4-DIFLUOROBENZENE (IS)	499	148000	50.0	
222	84		METHYLENE CHLORIDE				BDL 5
226	96		TRANS-1,2-DICHLOROETHENE				BDL 5
214	63		1,1-DICHLOROETHANE				BDL 5
257	43		VINYL ACETATE				BDL 10
237	96		CIS-1,2-DICHLOROETHENE				BDL 5
253	72		2-BUTANONE				BDL 10
211	83		CHLOROFORM				BDL 5
227	97		1,1,1-TRICHLOROETHANE				BDL 5
206	117		CARBON TETRACHLORIDE				BDL 5
203	78		BENZENE				BDL 5
215	62		1,2-DICHLOROETHANE				BDL 5
270	117	I	D5-CHLOROBENZENE (IS)	867	137000	50.0	
229	130		TRICHLOROETHENE				BDL 5
217	63		1,2-DICHLOROPROPANE				BDL 5
212	83		BROMODICHLOROMETHANE				BDL 5
218	75		CIS-1,3-DICHLOROPROPENE				BDL 5
256	43		4-METHYL-2-PENTANONE				BDL 10
225	92		TOLUENE				BDL 5
250	75		TRANS-1,3-DICHLOROPROPENE				BDL 5
228	97		1,1,2-TRICHLOROETHANE				BDL 5
224	164		TETRACHLOROETHENE				BDL 5
258	43		2-HEXANONE				BDL 10
208	129		DIBROMOCHLOROMETHANE, 124-4				BDL 5
207	112		CHLOROBENZENE				BDL 5
219	106		ETHYLBENZENE				BDL 5
330	106		M,P-XYLENE				BDL 5
239	106		O-XYLENE				BDL 5
251	104		STYRENE				BDL 5
205	173		BROMOFORM				BDL 5
223	83		1,1,2,2-TETRACHLOROETHANE				BDL 5
258	65	S	D4-1,2-DICHLOROETHANE WE#57			42.0	84. X
247	95	S	BROMOFLUOROBENZENE			44.0	88. X
233	98	S	D8-TOLUENE WE#39			47.0	94. X
289	106		XYLENES (TOTAL)				BDL 5

CORRECTED/REVIEWED BY OK
 (GC/MS DATA REVIEWER)

DATE 6.17.89

CMP	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUHS:							
	3979.		1707	325900.	284.1		267.

CORRECTED/REVIEWED BY *Oliver*
(GC/MS DATA REVIEWER)DATE 11-27-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	42.0	50.0	84.	76-114	X	
41	247	BROMOFLUOROBENZENE	44.0	50.0	88.	86-115	X	
42	233	D8-TOLUENE WE#59	47.0	50.0	94.	88-110	X	

* ADVISORY SURROGATE ONLY ✓

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

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} =$$

$$\frac{5000 \text{ UL}}{5000. \text{ (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION 8

CORRECTED/REVIEWED BY G. J. ...
(GC/MS DATA REVIEWER)

DATE 11-2-89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-18

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05

Matrix: (soil/water) WATER Lab Sample ID: 302173

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002173B18

Level: (low/med) LOW Date Received: 11/15/89

% Moisture: not dec. _____ Date Analyzed: 11/16/89

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	2	J
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	4	J
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	7	

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001-18

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05

Matrix: (soil/water) WATER Lab Sample ID: 302173

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN00217JB18

Level: (low/med) LOW Date Received: 11/15/89

% Moisture: not dec. _____ Date Analyzed: 11/16/89

Column (pack/cap) SAP Dilution Factor: 1.0

Number TICs found: 1

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

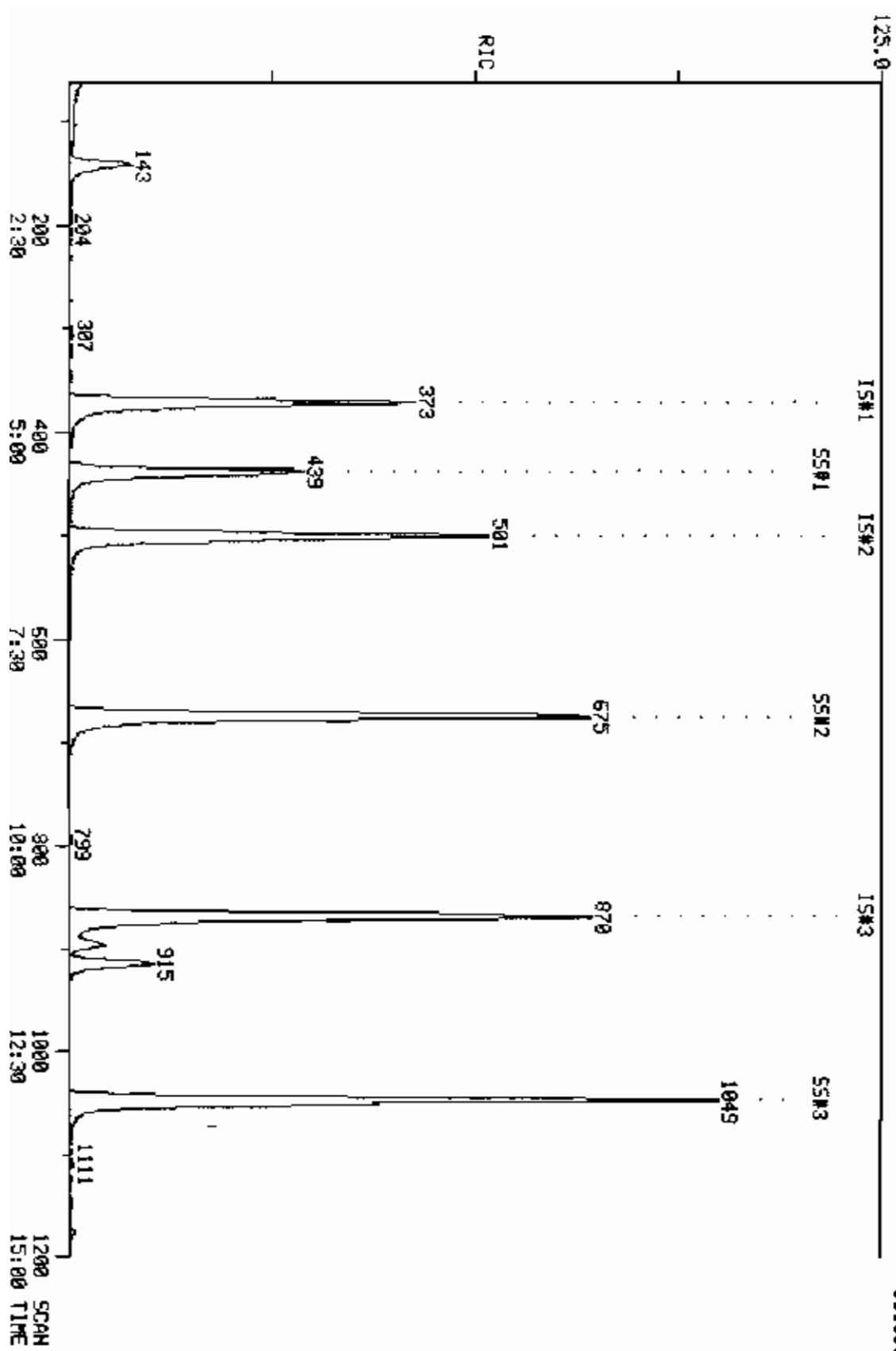
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	ETHANE,1,1'-OXYBIS-	1.78	9.0	J

COMPUCHEM LABS

COMPUCHEM DATA: CN002179B18 SCANS 63 TO 1200

RTG
11/16/89 18:52:00
SAMPLE: SML CCM 302173 ID# 738001-18 CASE# 10410 ON #18
COND.S.?

6C560.



QUANTITATION REPORT FILE: CN002173B18
 DATA: CN002173B10.TI
 11/16/09 18:52:00
 SAMPLE: 5ML CC# 302173 ID# 738001-18 CASE# 18410 ON #18
 CONDS.:
 SUBMITTED BY: 18 ANALYST: 1009

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-3> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	219 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <106-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-29-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*238 D4-1,2-DICHLOROETHANE WE#57
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	*233 D8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	373	4:40	1	1.000	A BB	41363.	50.000 UG/L	16.60
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	NOT FOUND							
9	114	501	6:16	9	1.000	A BB	148092.	50.000 UG/L	16.60
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	437	5:28	9	0.872	A BB	4647.	2.156 UG/L	0.72
20	62	NOT FOUND							
21	117	869	10:52	21	1.000	A BB	140943.	50.000 UG/L	16.60
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	897	11:13	21	1.032	A BV	4386.	3.867 UG/L	1.28
35	106	915	11:26	21	1.053	A VB	14083.	7.136 UG/L	2.37
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	439	5:29	1	1.177	A BB	63261.	43.333 UG/L	14.38
41	95	1049	13:07	21	1.207	A BB	84017.	44.575 UG/L	14.80
42	98	675	8:26	21	0.777	A BB	143591.	50.220 UG/L	16.67

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:40	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51		10.000			50.00		0.638	
3	0:57		10.000			50.00		0.600	
4	1:08		10.000			50.00		0.957	
5	1:13		10.000			50.00		0.573	
6	1:57		5.000			50.00		1.251	
7	2:04		5.000			50.00		3.119	
8	2:09		10.000			50.00		0.348	
9	6:16	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	2:38		5.000			50.00		1.309	
11	2:57		5.000			50.00		1.203	
12	3:32		5.000			50.00		1.928	
13	3:48		10.000			50.00		0.497	
14	4:21		5.000			50.00		1.487	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	4:31		10.000			50.00		0.096	
16	4:54		5.000			50.00		2.453	
17	4:56		5.000			50.00		0.548	
18	5:08		5.000			50.00		0.567	
19	5:28	1.00	5.000	0.17	2.16	50.00	0.031	0.728	0.04
20	5:37		5.000			50.00		1.733	
21	10:52	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	6:30		5.000			50.00		0.437	
23	6:51		5.000			50.00		0.295	
24	7:25		5.000			50.00		0.535	
25	8:08		5.000			50.00		0.471	
26	8:33		15.000			50.00		0.332	
27	8:32		5.000			50.00		0.602	
28	9:09		5.000			50.00		0.217	
29	9:24		5.000			50.00		0.302	
30	9:22		5.000			50.00		0.502	
31	10:01		15.000			50.00		0.192	
32	9:58		5.000			50.00		0.556	
33	10:55		5.000			50.00		0.940	
34	11:13	1.00	5.000	0.21	3.87	50.00	0.031	0.402	0.08
35	11:27	1.00	5.000	0.21	7.14	50.00	0.100	0.700	0.14
36	12:07		5.000			50.00		0.640	
37	12:12		5.000			50.00		1.073	
38	12:28		5.000			50.00		0.411	
39	13:41		5.000			50.00		0.439	
40	5:29	1.00	5.000	0.24	43.33	50.00	1.529	1.765	0.87
41	13:07	1.00	5.000	0.24	44.58	50.00	0.596	0.669	0.89
42	8:26	1.00	5.000	0.16	50.22	50.00	1.019	1.014	1.00

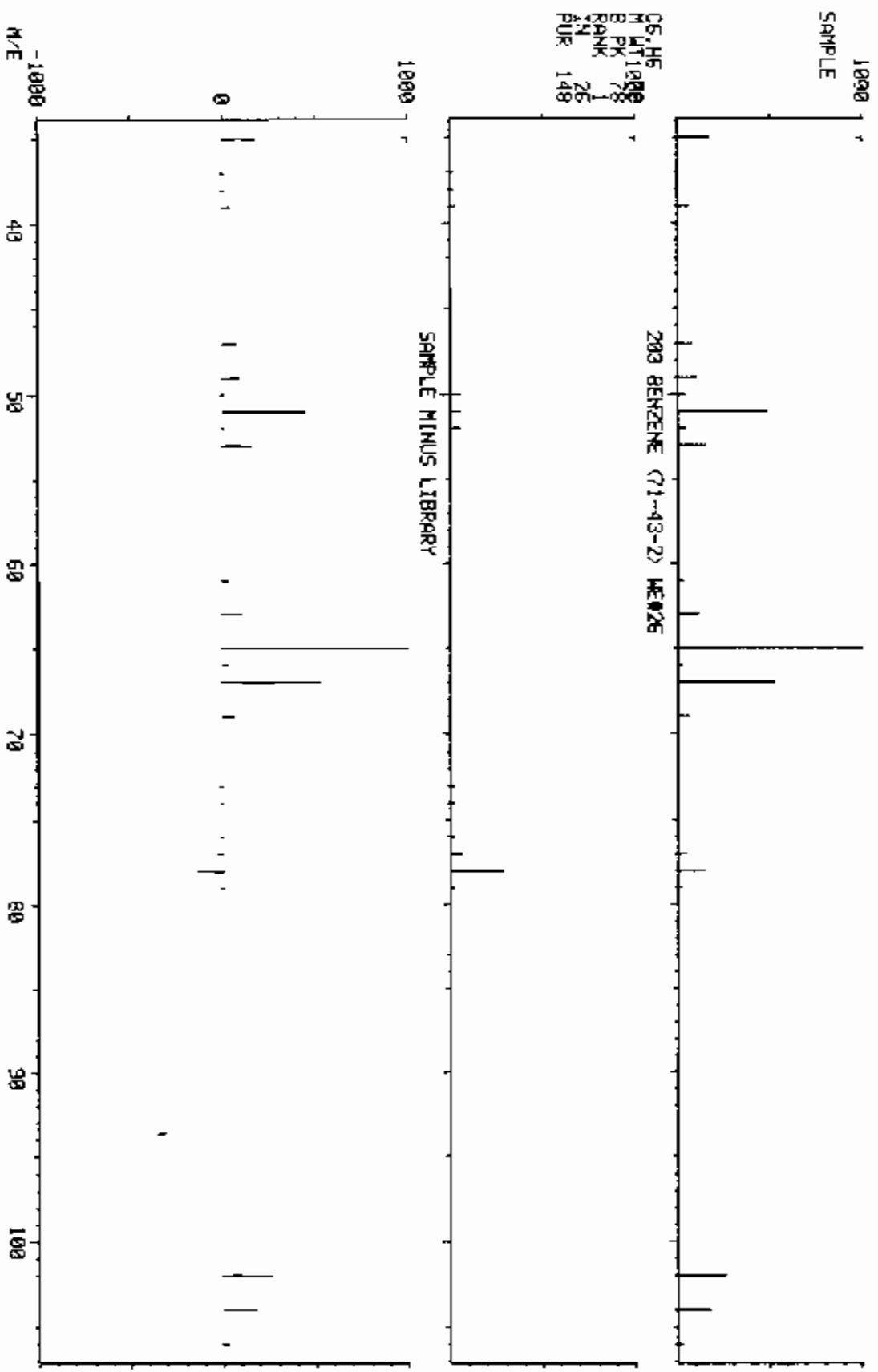
LIBRARY SEARCH
11/16/99 18:52:00 + 5:29
SAMPLE: SML CCR 302173 ID# 738801-18 CASE# 18418 ON #18
ENHANCED (S 158 2H 8T)

COMPUCHEM LABS

DATA: CN002173B18 # 437

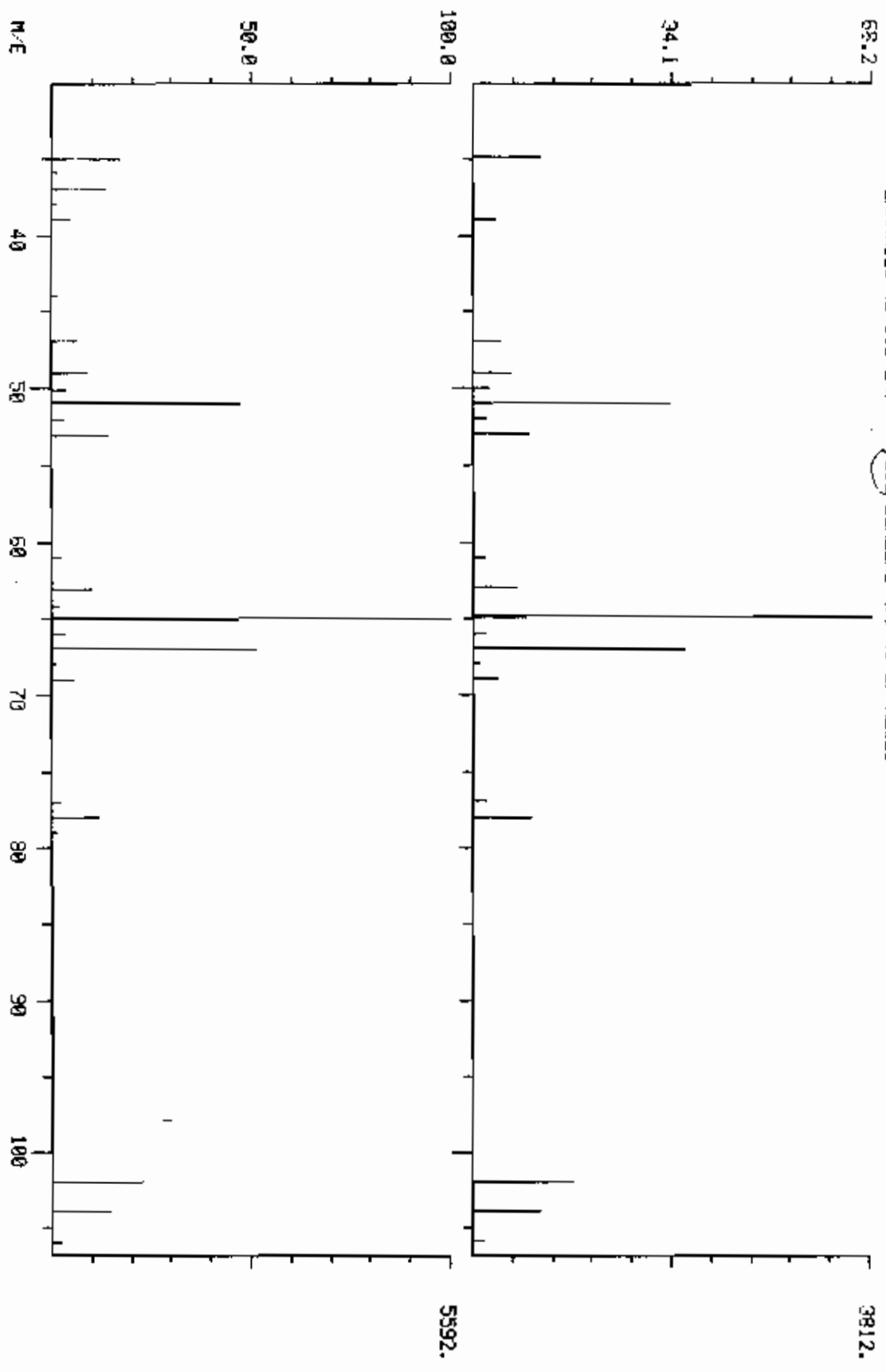
BASE M/E: 65
R1C: 13295.

05.H6
M 119.00
R PK 78
RANK 26
IN 1
PUR 148



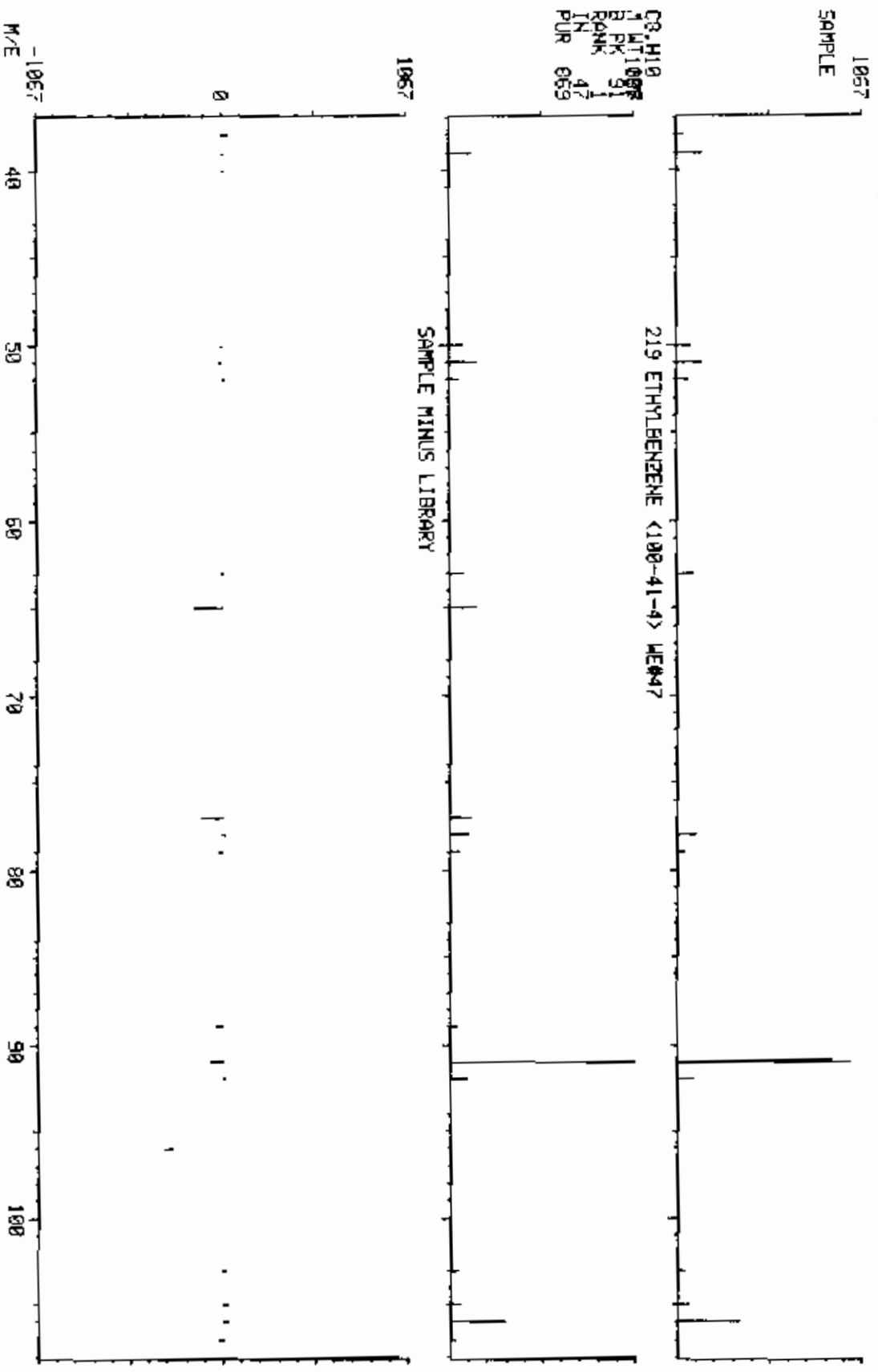
DUAL MASS SPECTRUM + COMPUTER LABS
11/16/89 18:52:09 + 5:28
SAMPLE: SML CO# 382173 10# 738801-18 CASE# 18410 ON #18
ENHANCED (5 158 2N) 203 BENZENE (71-43-2) ME#25

DATA: CN902173B18 #437 BASE M/E: 65/ 65
R10: 13049.7 19711.



COMPUCHEN LABS
 DATA: CM002173818 * 897
 BASE M/E: 91
 RIC: 2867

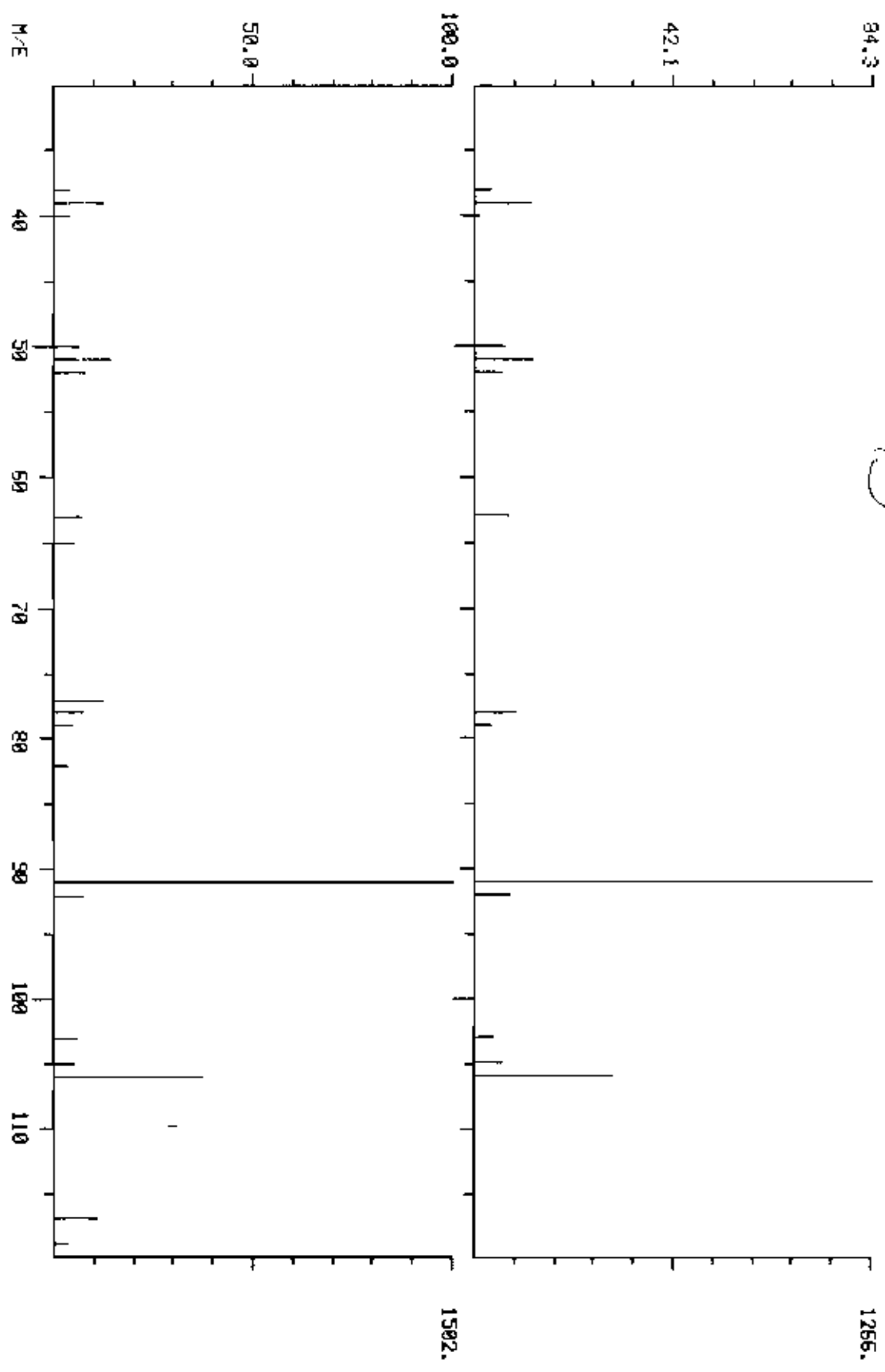
LIBRARY SEARCH
 11/16/89 18:52:00 + 11:13
 SAMPLE: SML CCM 302173 ID# 730001-18 CASE# 18410 ON #18
 ENHANCED (S 150 ZN 0T)



DUAL MASS SPECTRUM
11/16/89 18:52:90 + 11:13
SAMPLE: 5ML CO# 302173 ID# 738001-18 CASE# 18410 ON #10
ENHANCED (S 159 2N) 219 ETHYLBENZENE (100-41-4) MEM47

COMPUCHEM LABS

DATA: CME2173818 #097 BASE M/E: 91/ 91
RIC: 2867./ 3955.



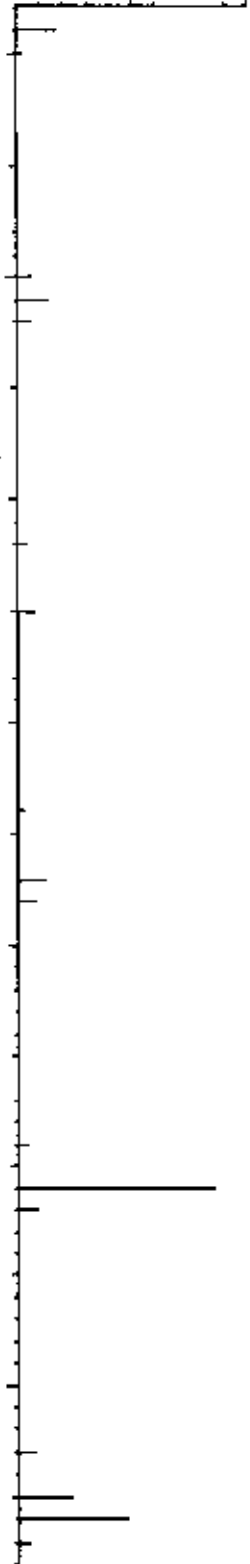
LIBRARY SEARCH
 11/16/99 18:52:00 + 11:25
 SAMPLE: SNL CC# 302173 ID# 730001-18 CASE# 18410 ON #18
 ENHANCED (5 158 2N 0T)

COMPUCHEM LABS

DATA: 0802173918 # 315

BASE M/E: 91
 RIC: 7255.

1177
 SAMPLE

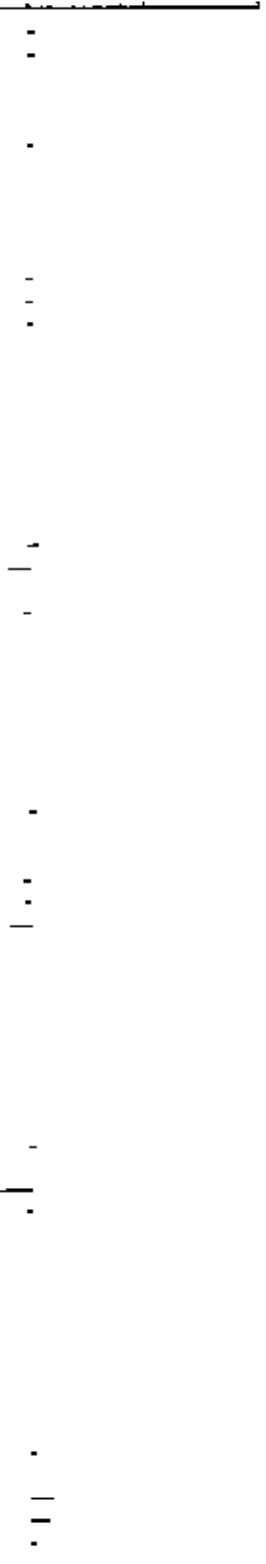


08.H10
 1.00
 B PK 91
 RPK 48
 IN 48
 PUR 912

330 M,P-XYLENE <133-02-7> NEM#8

SAMPLE MINUS LIBRARY

1177



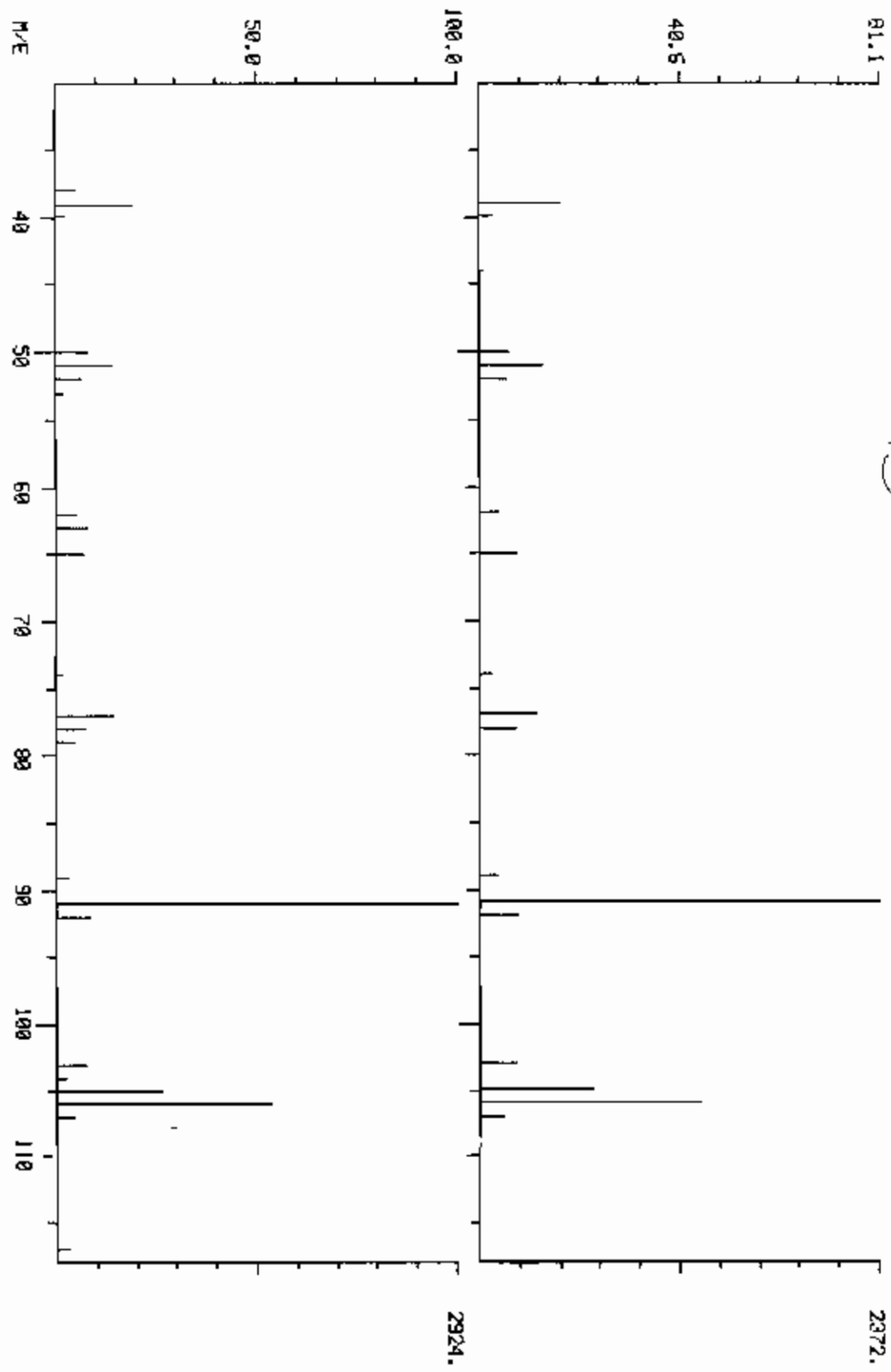
-1177
 M/E



DUAL MASS SPECTRUM
11/16/89 18:52:00 + 11:26
SAMPLE: GML C0# 302173 ID# 738001-18 CASE# 18410 ON #18
ENRICHED (5 15B 2M) (390) M,P-XYLENE (133-92-7) ME#48

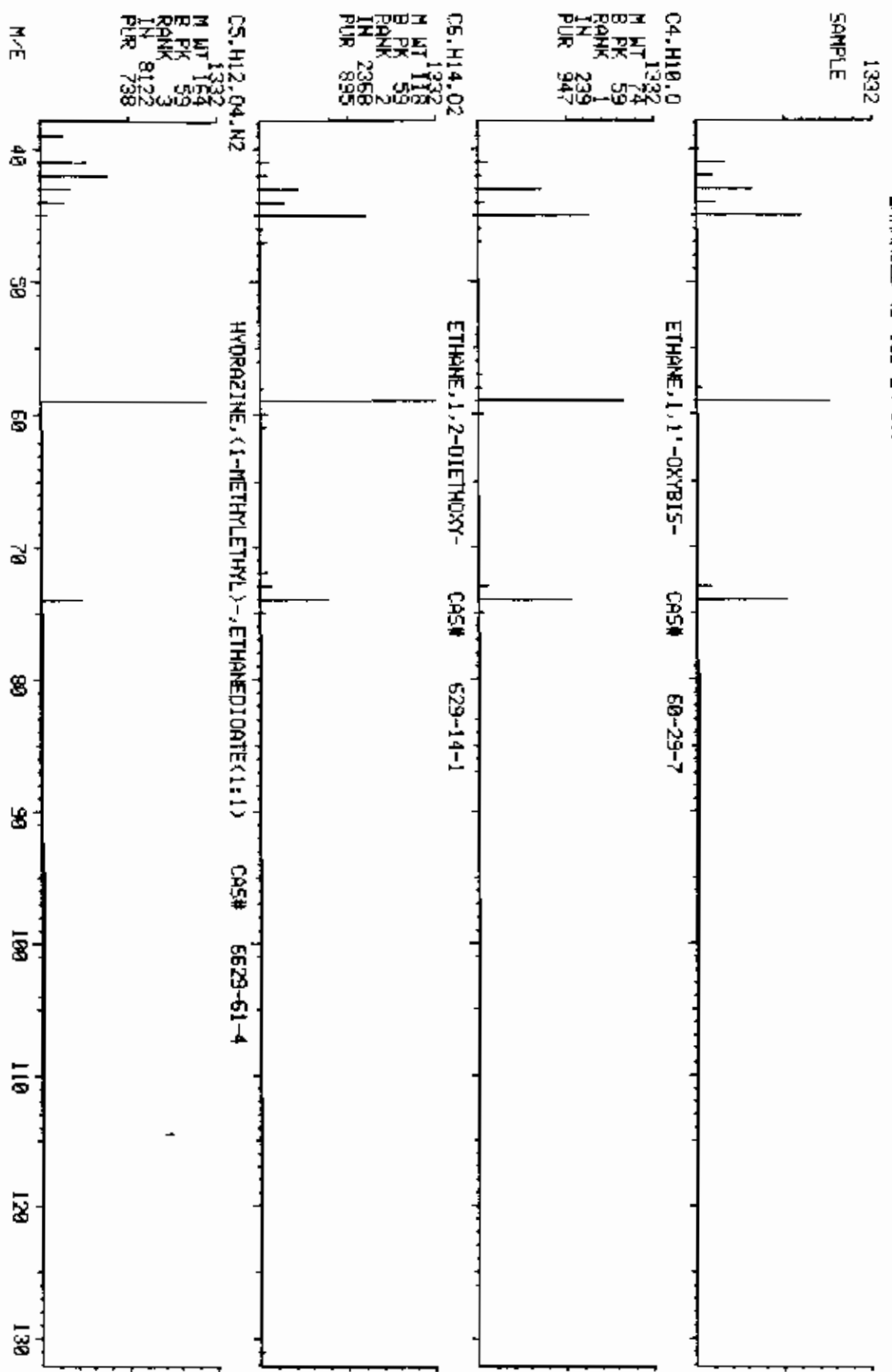
COMPUCHEN LABS

DATA: D0002173019 #915 BASE M/E: 91 / 91
RIC: 7255. / 9135.



LIBRARY SEARCH
 11/16/89 18:52:08 + 1:47
 SAMPLE: 5ML COX 382173 ID# 738001-18 CASE# 18410 ON #18
 ENHANCED (S 1SB 2N 8T)

COMPUCHEN LABS
 DATA: CN802173818 # 143
 BASE M/E: 59
 RIC: 5279.



LAB INSTRUCTIONS:

INORGANICS GET J DEL'S - CASE#RA-789 SDGM317
SHIP AS A CASE

RECEIPT DATE 11/15/89

CASE#: 18410 5

DUE DATE:

VOA
GC/MS WORKSHEET

COMPUCHEM#: 302173

J1] J31] D1] (:1)

J2] J4] D2] (:1)

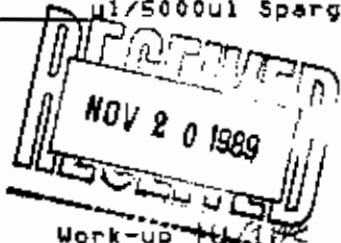
GC/MS; VOA; WATER EPA SOW 2/88

Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

SAMPLE ID#: 738001-18

GC/MS ANALYSIS

Amount Purged: [✓] 5mls or [] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename B0891116A18 Disk ()
Blank Filename C0891116A18 Disk ()
Standard Filename C0891116A18 Disk ()
Sample Filename CN002L73314 Disk ()



ANALYST(S): Injection WDAWK

Work-up WDAWK

GC/MS REVIEW

CONDITION
CODE

OK

Entry Codes OK, JS, SM, 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, SM

Disposition: [✓] Complete
[] Reinject Neat
[] Dilute (:1)

Extraneous Peak Search Results:

of Peaks Found: 01

Quality Assurance Notice(s):

Notices Required 0



COMMENTS:

GC/MS Review WDAWK Date 11/17/89 Auditor WDAWK Date 11/18/89

REPORT INTEGRATION

Final Reportable Package(s): GUO-A18

Total # of Injections: 1

QA COMMENTS:

Initials _____ Date ____/____/____

FINAL REVIEW:

Initials _____ Date ____/____/____

AC1004 (05/89)

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CHP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UO/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	373	41400	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)				BDL	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	501	148000	50.0		
222	04	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	60	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE			2.2	2J	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	05-CHLOROENZENE (IS)	869	141000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
230	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DISBROMOCHLOROMETHANE, 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE			3.9	4J	5
330	106	M, P-XYLENE			7.1	7	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			43.3	87. %	
247	95 S	BROMOFLUOROBENZENE			44.6	89. %	
233	98 S	D8-TOLUENE WE#59			50.2	100. %	
289	106	XYLENES (TOTAL)			7.1	7	5

CORRECTED/REVIEWED BY *C. K. Smith*
(QC/MS DATA REVIEWER)DATE 11-17-89

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:							
		3979.	1743	030400.		308.4	296.

CORRECTED/REVIEWED BY *C. J. Smith*
(GC/MS DATA REVIEWER)DATE 11/17/89

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	43.3	50.0	87.	76-114	X	
41	247	BROMOFLUOROBENZENE	44.6	50.0	89.	86-115	X	
42	233	D8-TOLUENE WE#59	50.2	50.0	100.	88-110	X	

* ADVISORY SURROGATE ONLY

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

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} =$$

$$\frac{5000 \text{ UL}}{5000. \text{ (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION 8

CORRECTED/REVIEWED BY *C. Stelt*
 (GC/MS DATA REVIEWER)

DATE 11-17-89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-21

Lab Name: COMPUCHEM LABS Contract: (1-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302168
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002168B18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	3	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	3	J
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	7	
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001-21

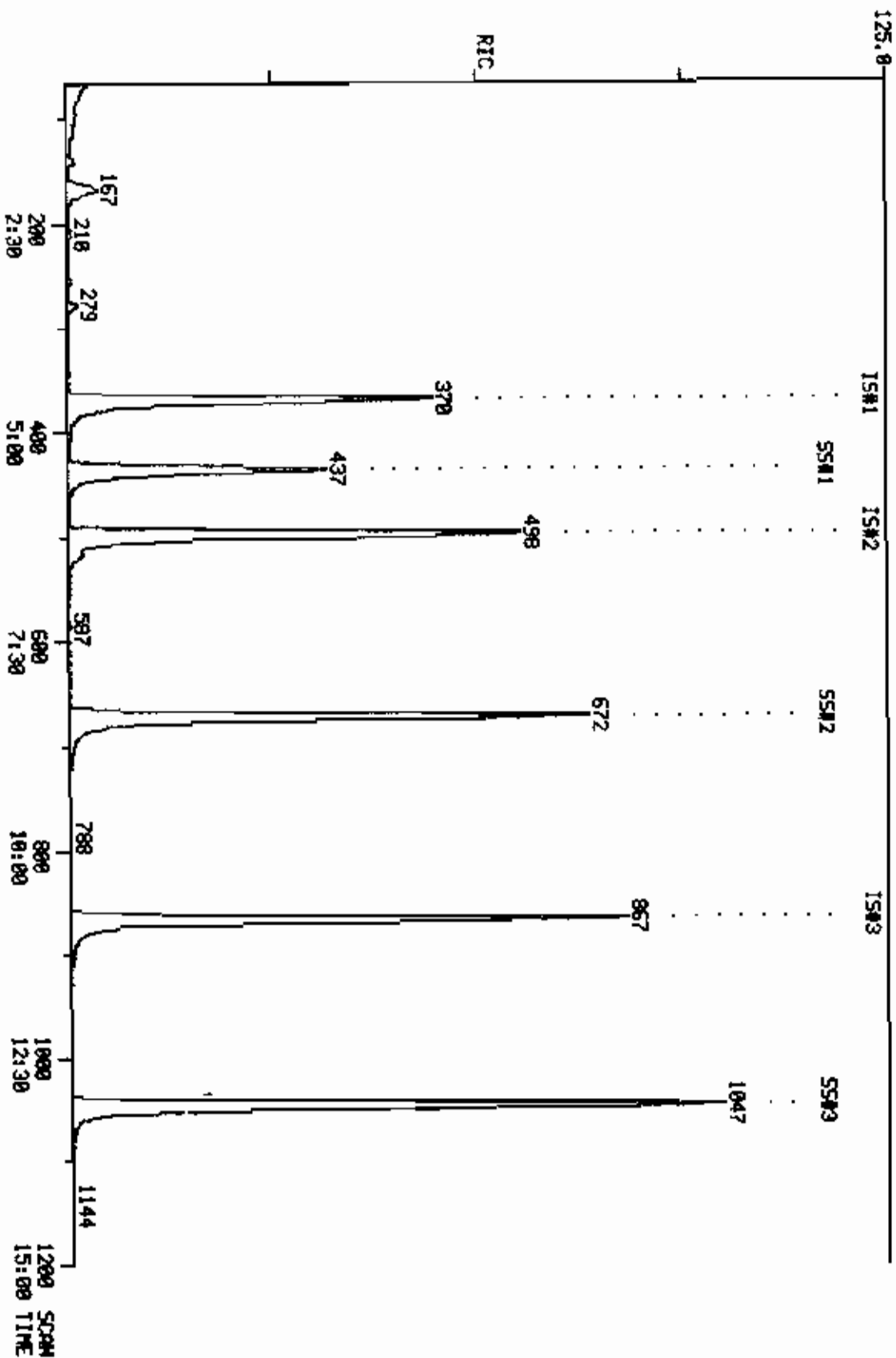
Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302168
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002168B18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

RIC 11/16/89 17:43:00 2
 SAMPLE: SML CCM 302158 ID# 7389001-21 CASE# 18418 ON #18
 COND5.:
 COMPUTER LABS
 COMPUTER DATA: CMB82158918 SCANS 67 TO 1200
 94000.



QUANTITATION REPORT FILE: CNO02168B18
 DATA: CNO02168B18.TI
 11/16/89 17:43:00
 SAMPLE: 5ML CC# JOY168 IO# 738/001-21 CASE# 18410 ON #18
 CONDOS.
 SUBMITTED BY: 18 ANALYST: 1009

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (18) (75-97-5) WE#1
2	221 CHLOROMETHANE (74-87-3) WE#2
3	201 VINYL CHLORIDE (75-01-4) WE#3
4	220 BROMOMETHANE (78-83-9) WE#4
5	209 CHLOROETHANE (75-00-3) WE#5
6	216 1,1-DICHLOROETHENE (75-35-4) WE#8
7	254 CARBON DISULFIDE (75-15-0) WE#9
8	252 ACETONE (2-PROPANONE) (67-64-1) WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) (540-36-3) WE#14
10	222 METHYLENE CHLORIDE (75-09-2) WE#16
11	226 TRANS-1,2-DICHLOROETHENE (156-60-5) WE#17
12	214 1,1-DICHLOROETHANE (75-34-3) WE#19
13	257 VINYL ACETATE (108-05-4) WE#20
14	237 CIS-1,2-DICHLOROETHENE (156-59-2) WE#21
15	253 2-BUTANONE (78-93-3) WE#22
16	211 CHLOROFORM (67-66-2) WE#23
17	227 1,1,1-TRICHLOROETHANE (71-55-6) WE#24
18	206 CARBON TETRACHLORIDE (56-23-5) WE#25
19	203 BENZENE (71-43-2) WE#26
20	213 1,2-DICHLOROETHANE (107-06-2) WE#27
21	*270 O5-CHLORO BENZENE (IS) (XXX-XX-X) WE#29
22	229 TRICHLOROETHENE (79-01-6) WE#30
23	217 1,2-DICHLOROPROPANE (78-87-5) WE#31
24	212 BROMODICHLOROMETHANE (75-27-4) WE#33
25	218 CIS-1,3-DICHLOROPROPENE (10061-1-5) WE#35
26	256 4-METHYL-2-PENTANONE (108-01-1) WE#36
27	225 TOLUENE (108-88-3) WE#37
28	250 TRANS-1,3-DICHLOROPROPENE (10061-02-6) WE#38
29	228 1,1,2-TRICHLOROETHANE (79-00-5) WE#39
30	224 TETRACHLOROETHENE (127-18-4) WE#41
31	255 2-HEXANONE (591-78-6) WE#42
32	208 DIBROMOCHLOROMETHANE (124-48-1) WE#43
33	207 CHLOROBENZENE (108-90-7) WE#45
34	219 ETHYLBENZENE (100-41-4) WE#47
35	330 M,P-XYLENE (133-02-7) WE#48
36	239 O-XYLENE (133-02-7) WE#49
37	251 STYRENE (100-42-5) WE#50
38	205 BROMOFORM (75-25-2) WE#51
39	223 1,1,2,2-TETRACHLOROETHANE (79-34-5) WE#54
40	#258 D4-1,2-DICHLOROETHANE WE#57
41	#247 BROMOFLUOROBENZENE (46D-00-4) WE#58
42	#233 O8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	369	4:37	1	1.000	A BB	41930.	50.000 UG/L	16.84
2	50	NOT FOUND							

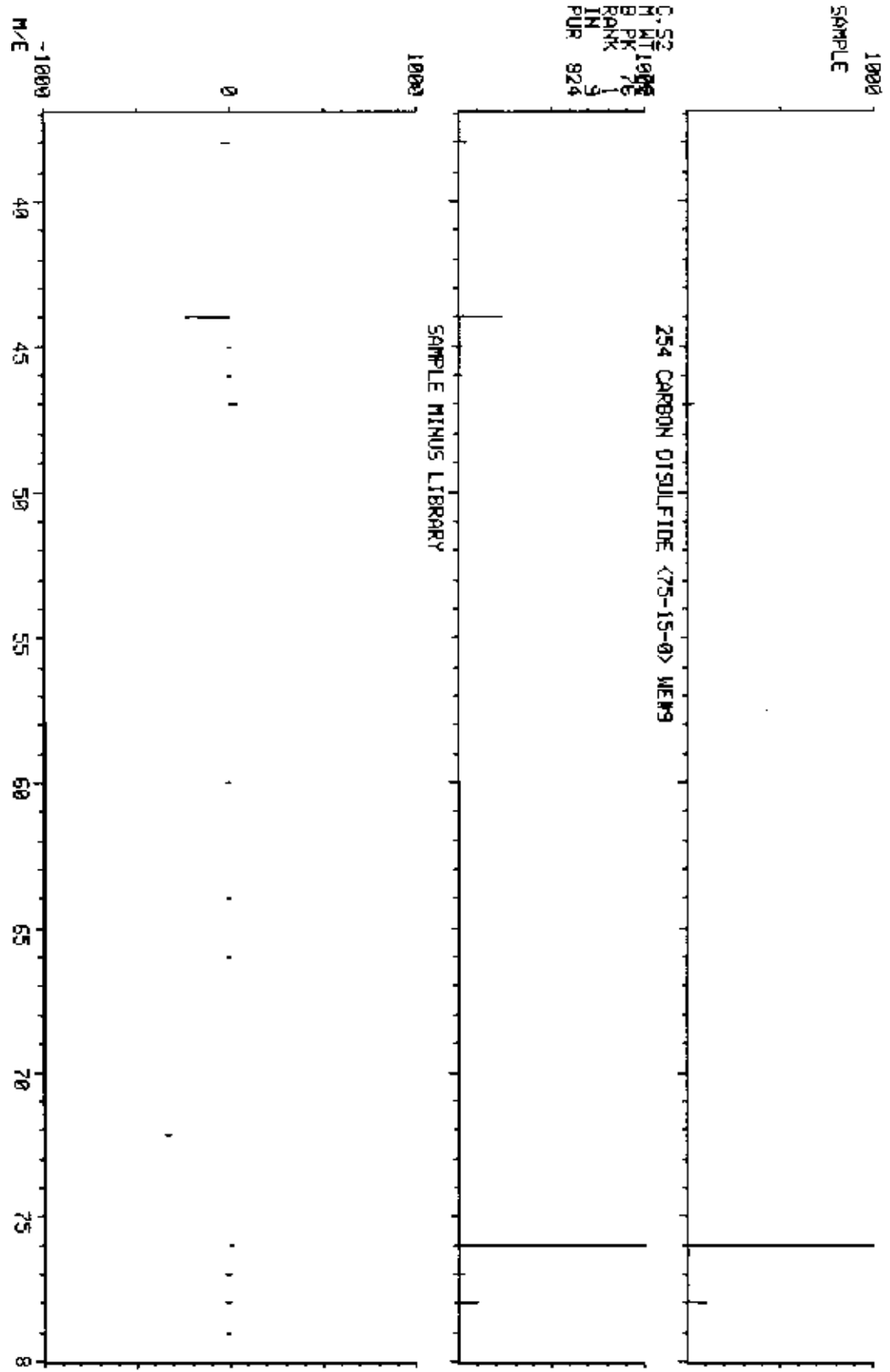
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	164	2:03	1	0.444	A BB	7457.	2.851 UG/L	0.96 <i>Y₂</i>
8	43	172	2:09	1	0.466	A*BB	755.	2.588 UG/L	0.87 <i>NO</i>
9	114	498	6:13	9	1.000	A BB	155771.	50.000 UG/L	16.84 <i>Y₂</i>
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	280	3:30	1	0.759	A BB	5074.	3.138 UG/L	1.06 <i>Y₂</i>
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	80	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	434	5:25	9	0.871	A BB	16512.	7.283 UG/L	2.45 <i>Y₂</i>
20	62	NOT FOUND							
21	117	867	10:50	21	1.000	A BB	141305.	50.000 UG/L	16.84
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	437	5:28	1	1.184	A BB	60863.	41.129 UG/L	13.85
41	95	1047	13:05	21	1.208	A BB	81588.	43.176 UG/L	14.54
42	98	672	8:24	21	0.775	A BB	134006.	46.748 UG/L	15.75

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:40	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51		10.000			50.00		0.638	
3	0:57		10.000			50.00		0.600	
4	1:08		10.000			50.00		0.957	
5	1:13		10.000			50.00		0.573	
6	1:57		5.000			50.00		1.251	
7	2:04	0.99	5.000	0.09	2.85	50.00	0.178	3.119	0.06
8	2:09	1.00	10.000	0.05	2.59	50.00	0.018	0.348	0.03
9	6:16	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	2:38		5.000			50.00		1.309	
11	2:57		5.000			50.00		1.203	
12	3:32	0.99	5.000	0.15	3.14	50.00	0.121	1.928	0.06
13	3:48		10.000			50.00		0.497	
14	4:21		5.000			50.00		1.487	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	4:31		10.000			50.00		0.096	
16	4:54		5.000			50.00		2.450	
17	4:56		5.000			50.00		0.548	
18	5:08		5.000			50.00		0.567	
19	5:28	0.99	5.000	0.17	7.28	50.00	0.106	0.728	0.15
20	5:37		5.000			50.00		1.733	
21	10:52	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	6:30		5.000			50.00		0.437	
23	6:51		5.000			50.00		0.295	
24	7:25		5.000			50.00		0.535	
25	8:08		5.000			50.00		0.471	
26	8:03		15.000			50.00		0.302	
27	8:32		5.000			50.00		0.602	
28	9:09		5.000			50.00		0.217	
29	9:24		5.000			50.00		0.302	
30	9:22		5.000			50.00		0.502	
31	10:01		15.000			50.00		0.192	
32	9:58		5.000			50.00		0.556	
33	10:55		5.000			50.00		0.940	
34	11:13		5.000			50.00		0.402	
35	11:27		5.000			50.00		0.700	
36	12:07		5.000			50.00		0.640	
37	12:12		5.000			50.00		1.073	
38	12:28		5.000			50.00		0.411	
39	13:41		5.000			50.00		0.439	
40	5:29	1.00	5.000	0.24	41.13	50.00	1.452	1.765	0.82
41	13:07	1.00	5.000	0.24	43.18	50.00	0.577	0.669	0.86
42	8:26	1.00	5.000	0.16	46.75	50.00	0.948	1.014	0.93

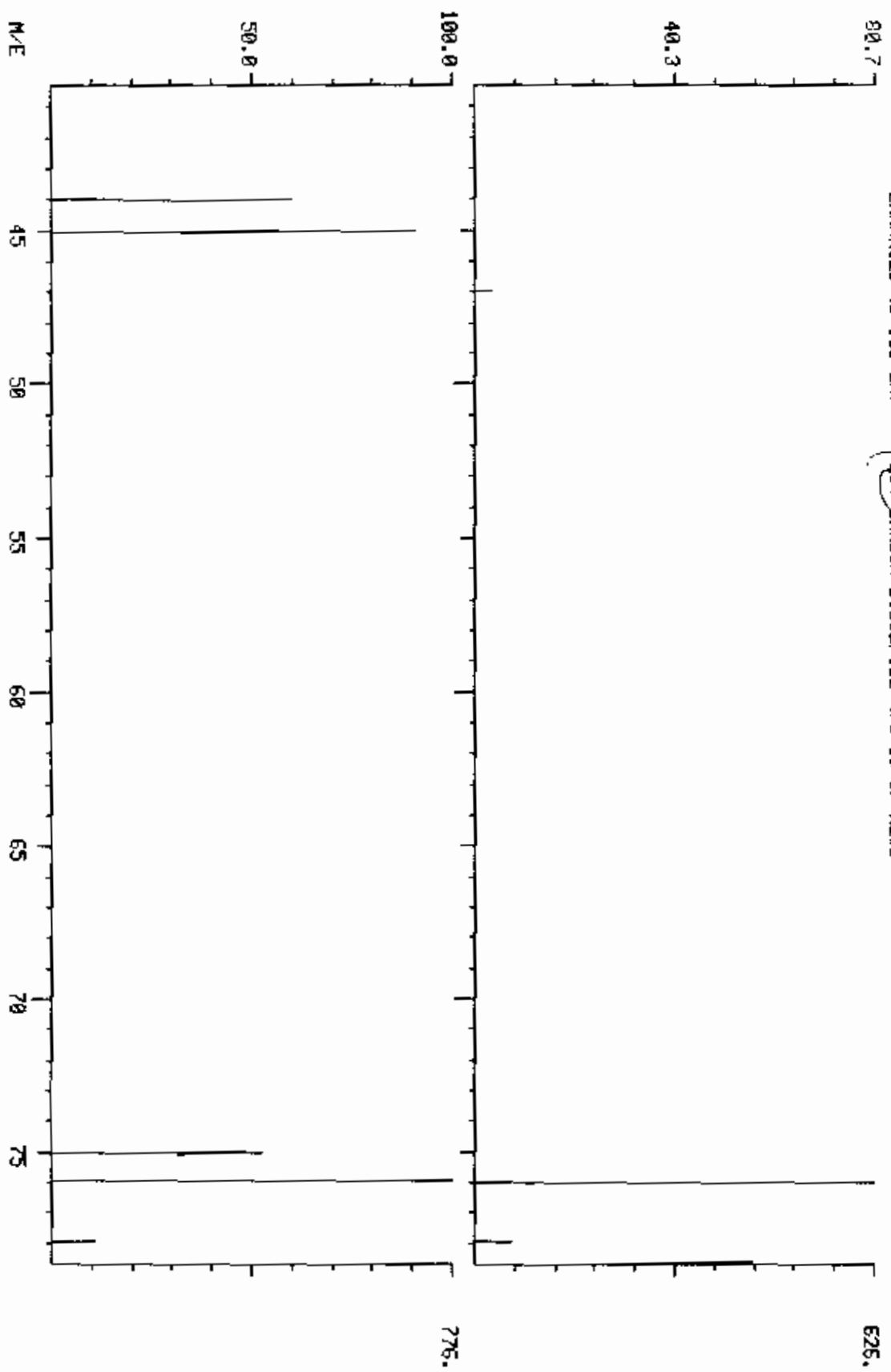
COMPUCHEM LABS
 DATA: CH002169810 # 164
 BASE M/E: 75
 RIC: 707.
 LIBRARY SEARCH 11/16/89 17:43:00
 SAMPLE: SML CC# 302159 ID# 7380001-21 CASE# 16410 ON #18
 ENHANCED (S 158 2H 0T)

C-52
 M.WT 1606
 B.PK 76
 RANK 1
 IN 9
 PUR 824



DUAL MASS SPECTRUM
11/16/89 17:43:00 2:03
SAMPLE: SML CC# 382168
ENHANCED (S 158 2H)

COMPUCHER LABS
DATA: CH002168818 1164
BASE M/E: 76/ 75
R10: 707. / 2427.



COMPUCHEM LABS

LIBRARY SEARCH

11/16/89 17:43:00 3:30

SAMPLE: 5ML CC# 302158 ID# 7392901-21 CASE# 18410 ON #18

ENHANCED (S 158 2N 0T)

DATA: CN002158B18 # 280

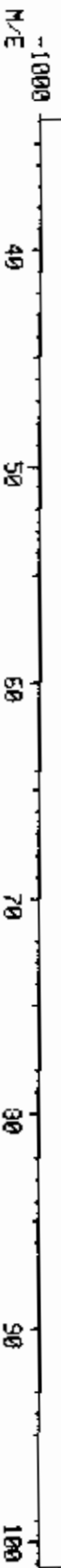
BASE N/E: 63
RIC: 886.

1000
SAMPLE

C2.H4.O.2
7 WT 1000
B PK
RANK
IN
PUR 708

214 1,1-DICHLOROETHANE (75-34-3) ME#19

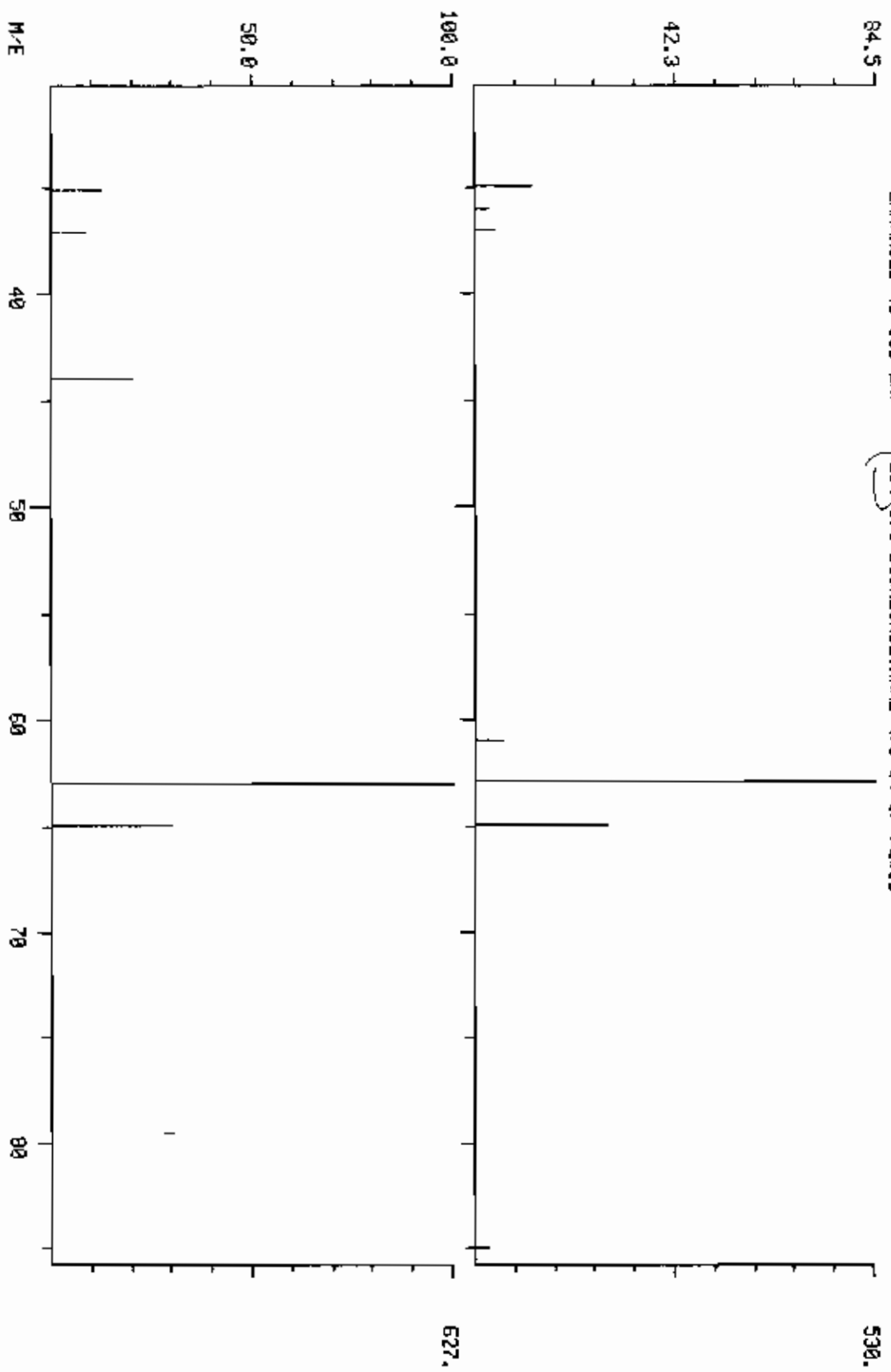
SAMPLE MINUS LIBRARY



DUAL MASS SPECTRUM 11/16/89 3:30
11/16/89 17:43:00
SAMPLE: 5ML CGM 362169 10# 7380001-21 CASE# 18410 ON #18
ENHANCED (S 158 2M) (214-1,1-DICHLOROETHANE (75-34-3) ME#19)

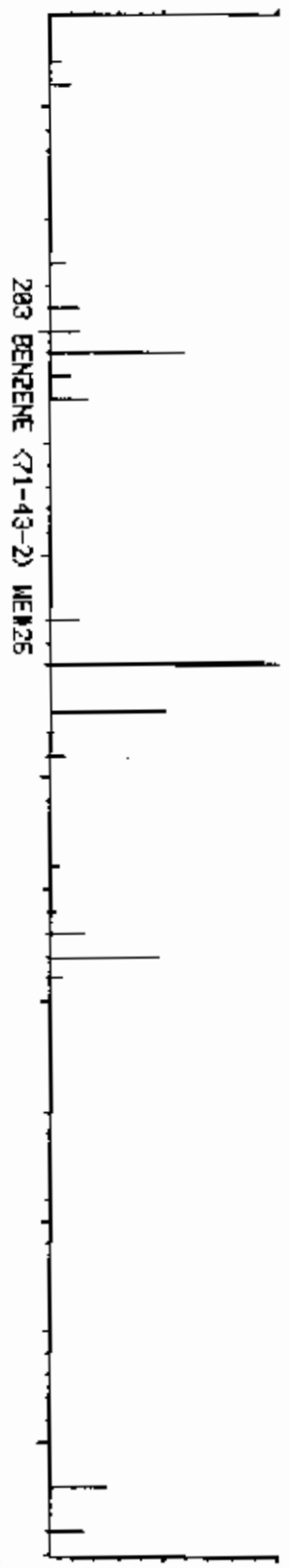
COMPUCHEM LABS

DATA: C0602169B18 #280 BASE M/E: 63/ 63
RIC: 880.7 1071.

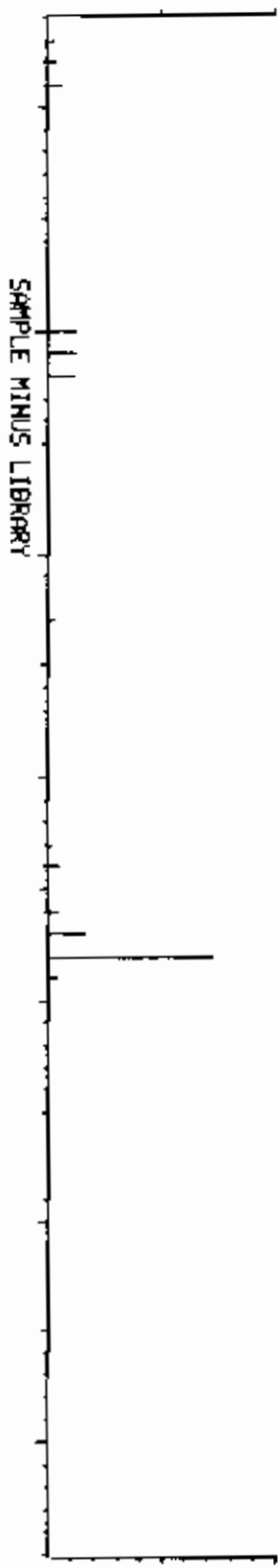


COMPUchem LABS
LIBRARY SEARCH 11/15/89 17:43:00 5:25
DATA: CN002168B18 # 434 BASE M/E: 65
SAMPLE: SML C0# 302168 10# 7390001-21 CASE# 18410 ON #19 RIC: 12511.
ENHANCED (S 158 2N 0T)

1000
SAMPLE

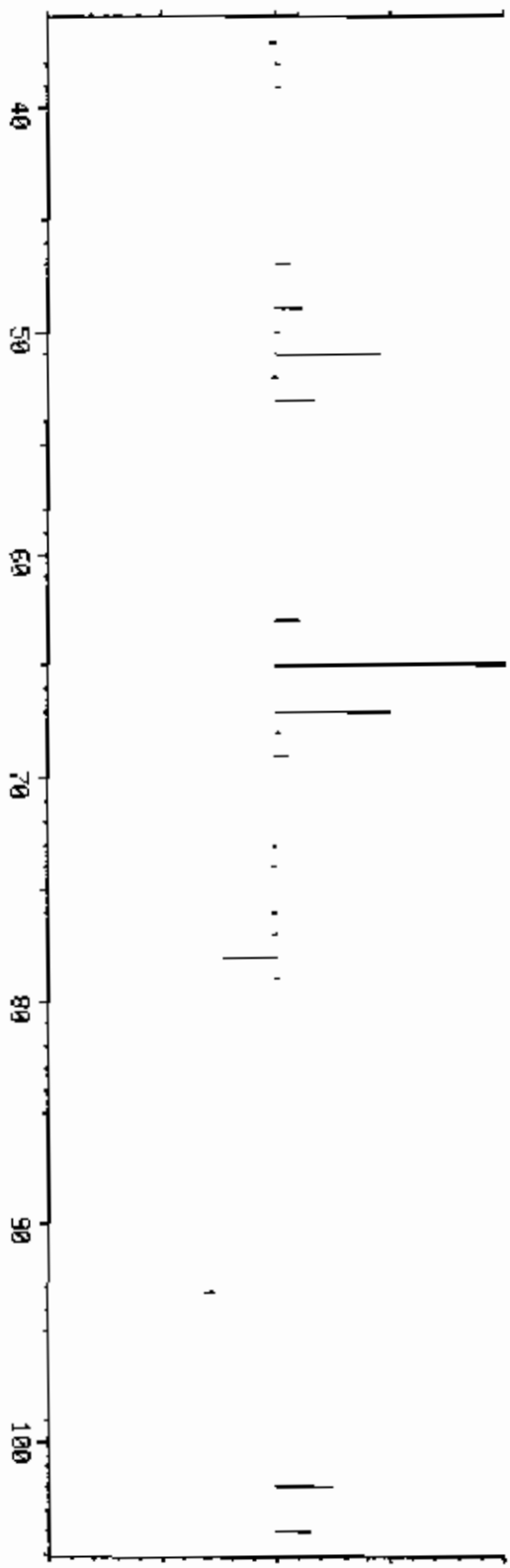


C6.H6
THT 1000
R PK 78
RANK 1
AN 26
PUP 368



203 BENZENE (71-43-2) MEX25
SAMPLE MINUS LIBRARY

1000
M/E

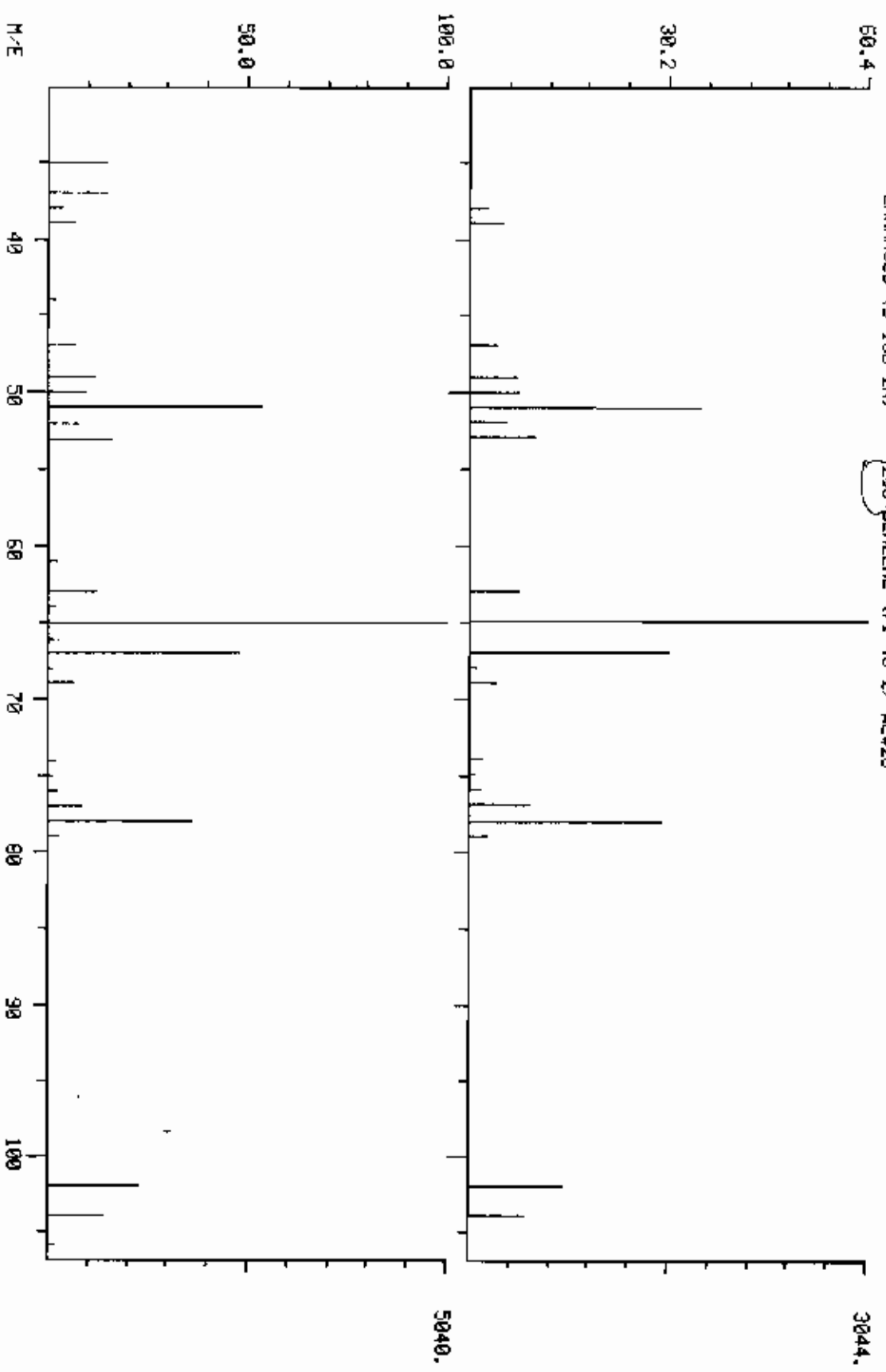


DUAL MASS SPECTRUM
11/16/89 17:43:00 5.25
SAMPLE: GML CC# 302158 ID# 7387001-21 CASE# 18419 ON #18
ENHANCED (5 158 2N) 293-BENZENE (71-43-2) WEN26

COMPUchem LABS

DATA: CN002160818 #434

BASE M/E: 65/ 65
RIC: 12559. / 20575.



LAB INSTRUCTIONS:
INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

RECEIPT DATE 11/15/89 CASE#: 18410 5 DUE DATE:
VOA J0] J3E] D0] (:1)
GC/MS WORKSHEET COMPUCHEN#: 302168 J2E] J4E] D2E] (:1)

GC/MS; VOA; WATER EPA SOW 2/88

Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

=====

SAMPLE ID#: 738001-21

=====

GC/MS ANALYSIS
Amount Purged: 5mls or Dilution 1/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BC891116A18 Disk ()
Blank Filename CC891116A18 Disk ()
Standard Filename CS891116A18 Disk ()
Sample Filename CW0021163318 Disk ()

NOV 21 1989

ANALYST(S): Injection WGM Work-up WGM

=====

GC/MS REVIEW

CONDITION
CODE

OK

Entry Codes OK, J5, SM, 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, SM

Extraneous Peak Search Results:
of Peaks Found: 0

Disposition: Complete
 Reinject Neat
 Dilute ()

Quality Assurance Notice(s):
Notices Required 0

COMMENTS:

GC/MS Review OK Date 11/20/89 Auditor WGM Date 11/21/89

=====

REPORT INTEGRATION
Final Reportable Package(s): CWO-RIF Total # of Injections: 01

=====

QA COMMENTS:

=====

INITIALS _____ DATE ____/____/____

FINAL REVIEW: INITIALS _____ DATE ____/____/____

AC1004 (05/89)

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	369	41700	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE			2.8	3J	5
252	43	ACETONE (2-PROPANONE)			2.6	BDL.9J	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	498	156000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE			3.1	3J	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE			7.3	7	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROENZENE (IS)	867	141000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			41.1	82. %	
247	95 S	BROMOFLUOROBENZENE			43.2	86. %	
233	98 S	D8-TOLUENE WE#59			46.7	93. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY Okf
(GC/MS DATA REVIEWER)DATE 11-17-89

GMP	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:							
		3979.	1734	338900.	296.8		277.

CORRECTED/REVIEWED BY *Oni H...*
 (GC/MS DATA REVIEWER)

DATE 11/22/89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	41.1	50.0	82.	76-114	X	
41	247	BROMOFLUOROBENZENE	43.2	50.0	86.	86-115	X	
42	233	D8-TOLUENE WE#59	46.7	50.0	93.	88-110	X	

* ADVISORY SURROGATE ONLY

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

CORRECTION FACTOR CALCULATION:

5000 UL

VOLUME OF SAMPLE PURGED (UL)

5000 UL

= 1.00 =

5.000 ML

5000. (UL)

5.000 (ML)

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION 8

CORRECTED/REVIEWED BY *OK*
(GC/MS DATA REVIEWER)

DATE 11-18-89
CVS
11-17-89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-22

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302155
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CR002155A18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	430	E
67-64-1	Acetone	280	E
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	8	
540-59-0	1,2-Dichloroethene (total)	10	
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	3	J
78-93-3	2-Butanone	40	
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	30	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	9	
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	49	
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	6	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	1	J

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

718001-22

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302155
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CR002155A18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

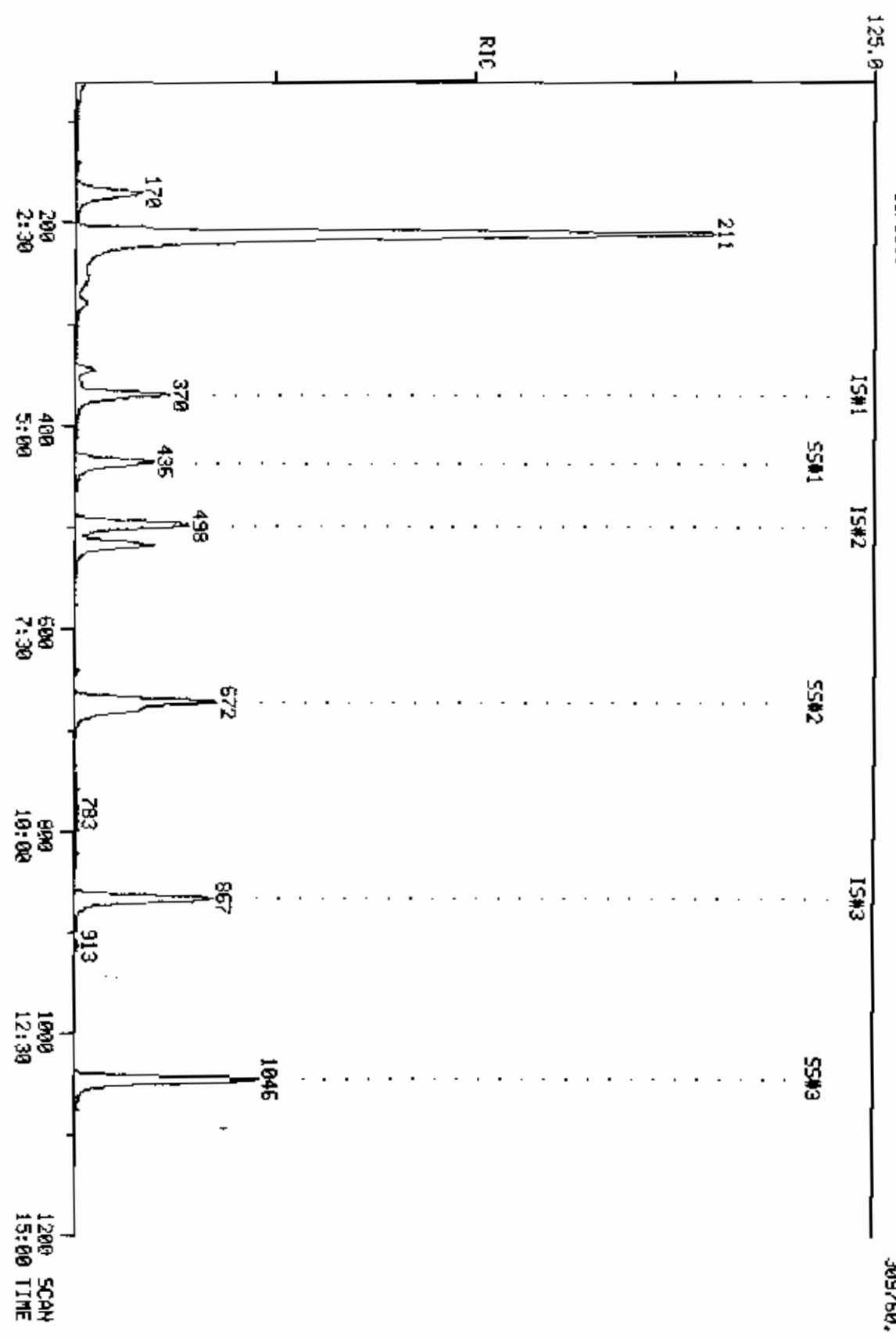
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.12	44	J

COMPUchem LAB5

COMPUchem DATA: CR002155A19 SCANS 60 TO 1200

RIC
11/16/89 10:34:00
SAMPLE: SML EPA 10#736001-22 CCM#02155 CASE#18410 5 ON#19
COND5.:



QUANTITATION REPORT FILE: CRO02155A18
 DATA: CRO02155A18.TI
 11/16/89 10:34:00
 SAMPLE: 5ML EPA ID#738001-22 CC#302155 CASE#18410 5 ON#18
 CONDS.:
 SUBMITTED BY: 18 ANALYST: 1577

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#31
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	*233 D8-TOLUENE WE#59

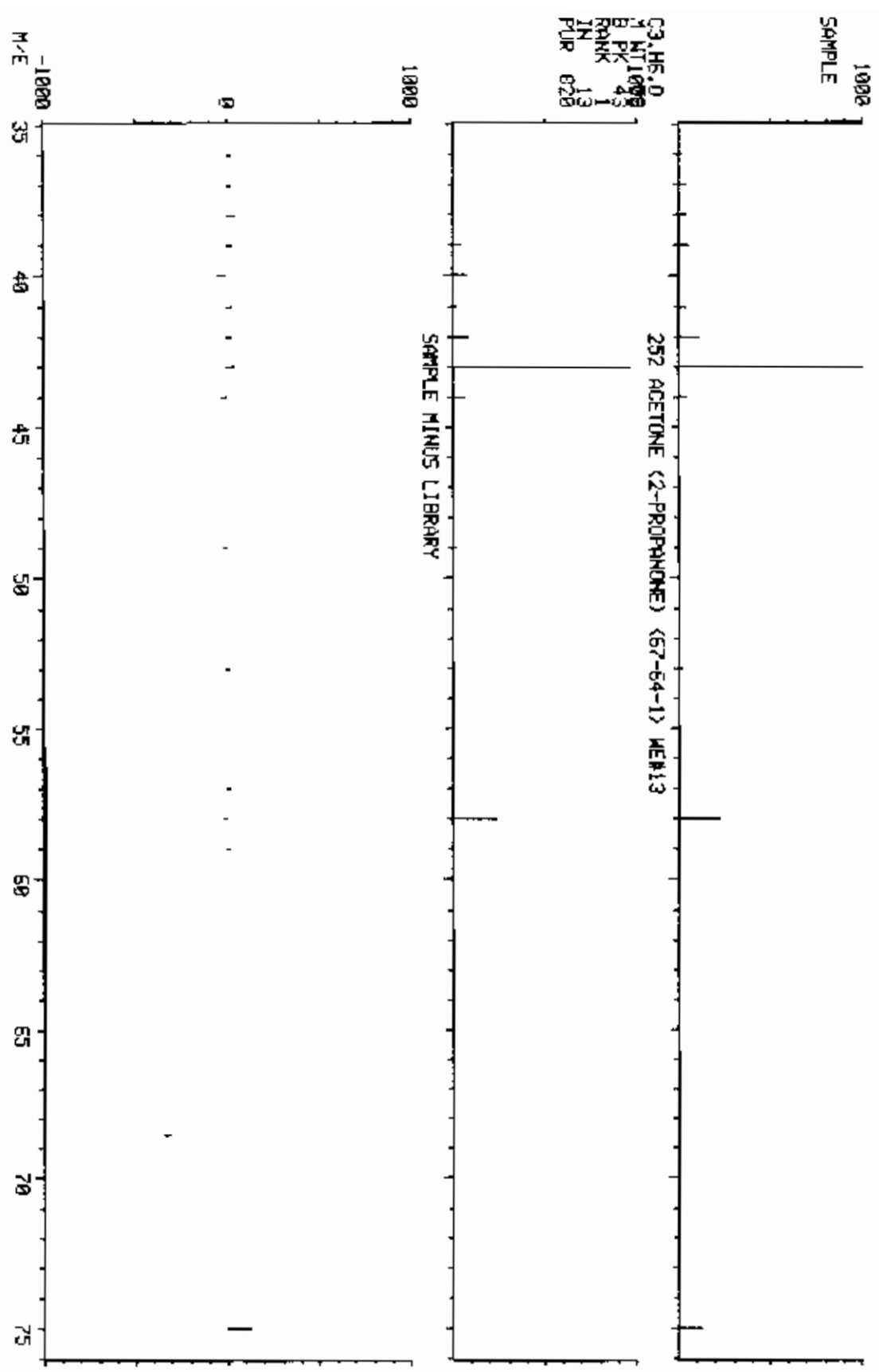
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	ZTOT
1	128	370	4:37	1	1.000	A BB	39076.	50.000 UG/L	4.29
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	97	1:13	1	0.262	A BB	766.	1.700 UG/L	0.15 ^{N/C}
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	172	2:09	1	0.465	A BB	103897.	278.408 UG/L	23.87 ^{Yes}
9	114	497	6:13	9	1.000	A BB	145520.	50.000 UG/L	4.29
10	84	210	2:37	1	0.568	A BB	442766.	425.921 UG/L	36.52 ^{Yes}
11	96	NOT FOUND							
12	63	280	3:30	1	0.757	A BB	12286.	7.644 UG/L	0.66 ^{Yes}
13	43	NOT FOUND							
14	96	346	4:19	1	0.935	A BB	11381.	10.198 UG/L	0.87 ^{Yes}
15	72	360	4:30	1	0.973	A BV	3065.	40.084 UG/L	3.44 ^{Yes}
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	435	5:26	9	0.875	A BB	21053.	9.420 UG/L	0.81 ^{Yes}
20	62	446	5:34	1	1.205	A BB	4459.	3.170 UG/L	0.27 ^{Yes}
21	117	866	10:49	21	1.000	A BB	134665.	50.000 UG/L	4.29
22	130	517	6:28	9	1.040	A BB	39706.	29.795 UG/L	2.55 ^{Yes}
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	680	8:30	21	0.785	A BB	45462.	48.866 UG/L	4.19 ^{Yes}
27	92	680	8:30	21	0.785	A BB	11089.	6.461 UG/L	0.55 ^{Yes}
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	795	9:56	21	0.918	A BV	787.	1.309 UG/L	0.11 ^{N/C}
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	913	11:25	21	1.054	A BB	2024.	1.010 UG/L	0.09 ^{Yes}
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	437	5:28	1	1.181	A BB	65732.	50.852 UG/L	4.36
41	95	1046	13:04	21	1.208	A BB	84784.	48.396 UG/L	4.15
42	98	671	8:23	21	0.775	A BB	143023.	53.016 UG/L	4.55

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:43	0.98	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51		10.000			50.00		0.690	
3	0:58		10.000			50.00		0.593	
4	1:10		10.000			50.00		1.011	
5	1:14	0.98	10.000	0.03	1.70	50.00	0.020	0.577	0.03
6	1:59		5.000			50.00		1.283	
7	2:07		5.000			50.00		2.964	
8	2:13	0.97	10.000	0.05	278.41	50.00	2.659	0.478	5.57
9	6:19	0.98	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	2:42	0.97	5.000	0.11	425.92	50.00	11.331	1.330	8.52
11	3:01		5.000			50.00		1.246	
12	3:36	0.97	5.000	0.15	7.64	50.00	0.314	2.057	0.15
13	3:52		10.000			50.00		0.514	
14	4:25	0.98	5.000	0.19	10.20	50.00	0.291	1.428	0.20

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	4:37	0.98	10.000	0.10	40.08	50.00	0.078	0.098	0.80
16	4:58		5.000			50.00		2.570	
17	5:00		5.000			50.00		0.569	
18	5:11		5.000			50.00		0.599	
19	5:31	0.98	5.000	0.18	9.42	50.00	0.145	0.768	0.19
20	5:40	0.98	5.000	0.24	3.17	50.00	0.114	1.800	0.06
21	10:54	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	6:34	0.98	5.000	0.21	29.80	50.00	0.274	0.460	0.60
23	6:55		5.000			50.00		0.306	
24	7:28		5.000			50.00		0.566	
25	8:10		5.000			50.00		0.494	
26	8:36	0.99	15.000	0.05	48.87	50.00	0.338	0.345	0.98
27	8:34	0.99	5.000	0.16	6.46	50.00	0.082	0.637	0.13
28	9:11		5.000			50.00		0.233	
29	9:27		5.000			50.00		0.325	
30	9:25		5.000			50.00		0.485	
31	10:03	0.99	15.000	0.06	1.31	50.00	0.006	0.223	0.03
32	10:01		5.000			50.00		0.584	
33	10:57		5.000			50.00		1.001	
34	11:14		5.000			50.00		0.432	
35	11:28	0.99	5.000	0.21	1.01	50.00	0.015	0.744	0.02
36	12:09		5.000			50.00		0.653	
37	12:14		5.000			50.00		1.100	
38	12:29		5.000			50.00		0.429	
39	13:42		5.000			50.00		0.483	
40	5:33	0.98	5.000	0.24	50.85	50.00	1.682	1.654	1.02
41	13:07	1.00	5.000	0.24	48.40	50.00	0.630	0.650	0.97
42	8:29	0.99	5.000	0.15	53.02	50.00	1.062	1.002	1.06

COMPUchem LABS
 DATA: CR002155A10 * 172
 BASE M/E: 43
 RIC: 14703.
 LIBRARY SEARCH
 11/16/89 10:34:00 + 2:09
 SAMPLE: SML EPA ID#738001-22 CC#302155 CASE#19410 5 ON#10
 ENHANCED (5 158 2N 0T)



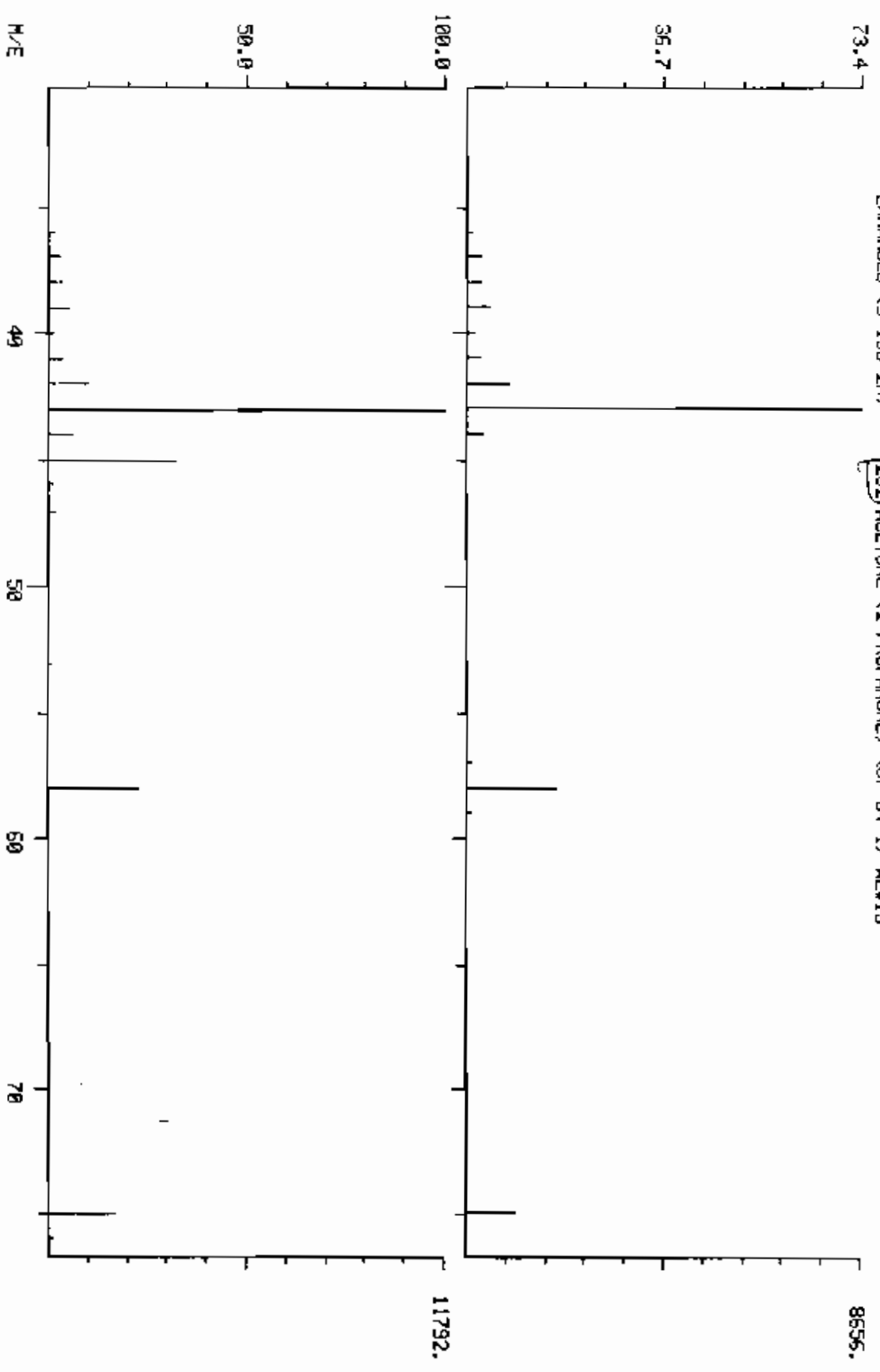
COMPUCHEM LABS

DATA: CR002155A18 #172

BASE M/E: 43/ 43
RIC: 14763./ 24895.

DUAL MASS SPECTRUM
11/16/89 18:34:00 + 2:09
SAMPLE: SML EPA 10#738001-22
ENHANCED (5 158 2N)

CC#302155 CASE#18410 5 ON#18
(252) ACETONE (2-PROPANONE) (67-64-1) ME#13



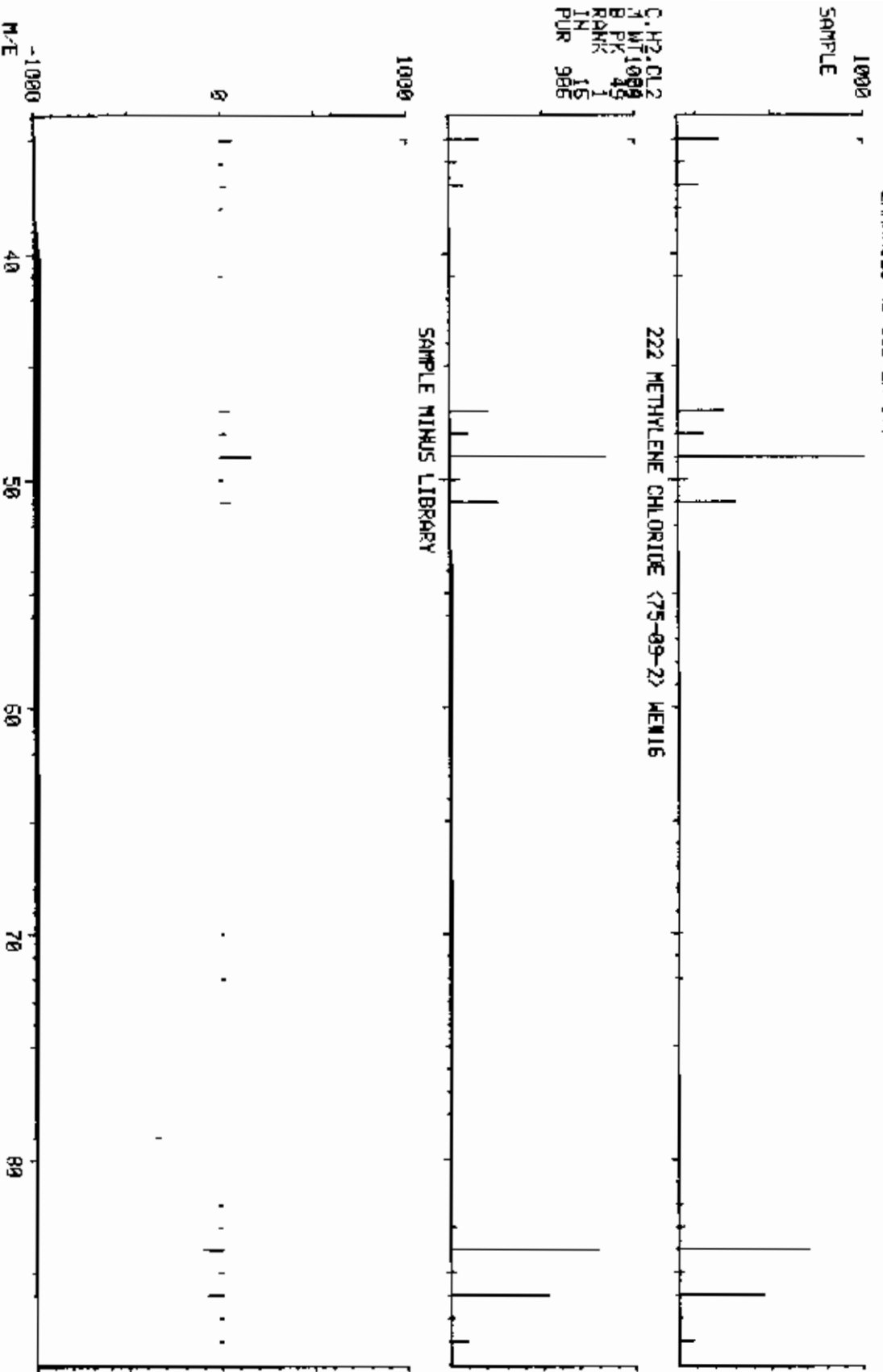
LIBRARY SEARCH
11/16/89 10:34:00 + 2:37
SAMPLE: SML EPA ID#738001-22 CC#002155 CASE#18410 5 ON#16
ENHANCED (S 1SB 2N 0T)

COMPUCHEM LABS

DATA: CR002155A18 # 210

BASE M/E: 49
RIC: 184575.

C.H2.C12
7 WT 1088
B PK 48
RANK 15
IN 1
PUR 986

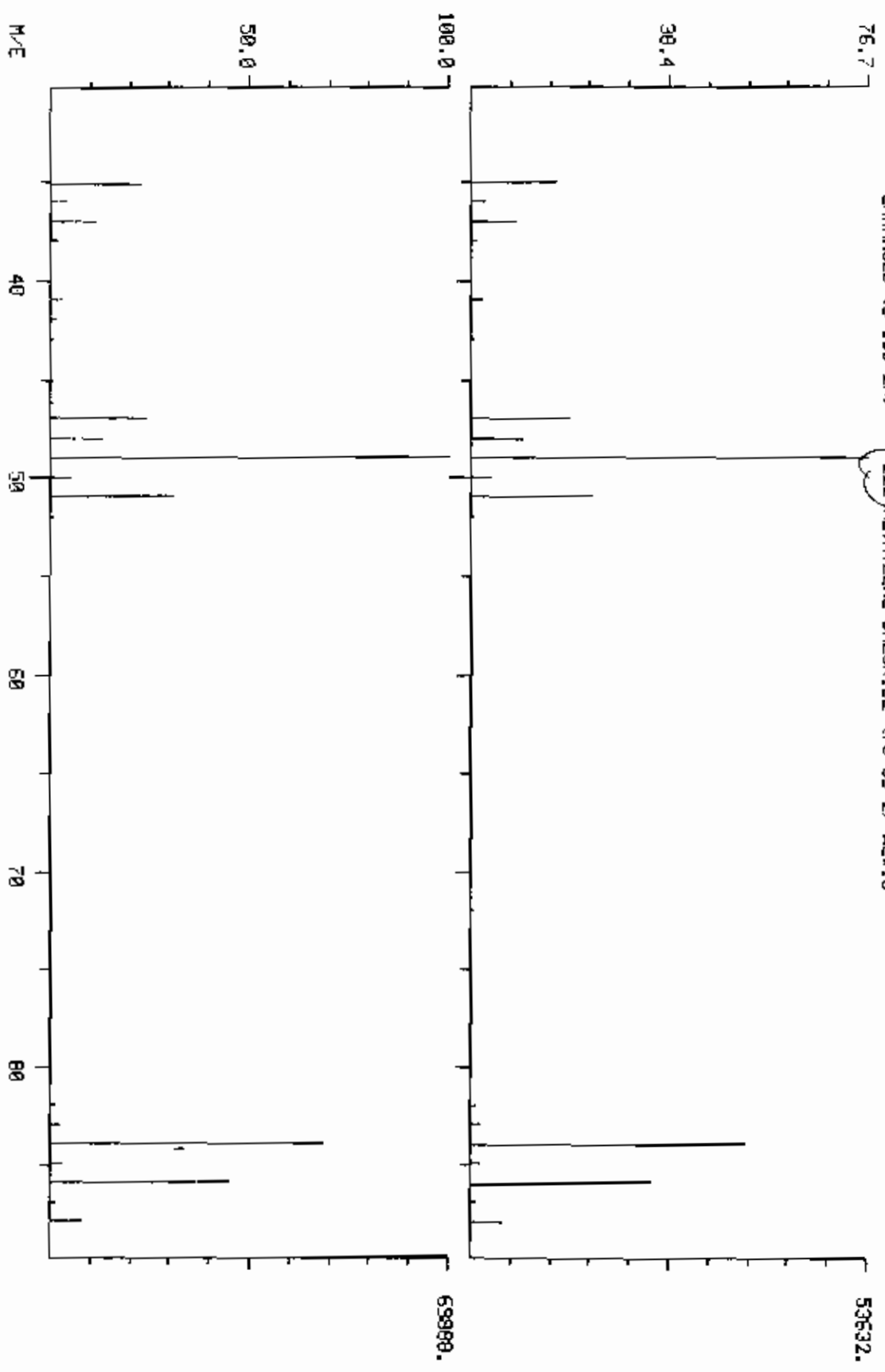


DUAL MASS SPECTRUM
11/16/89 10:34:00 + 2:37
SAMPLE: 5ML EPA ID#738001-22
ENHANCED (S 158 2ND)

COMPUCHEM LABS

DATA: CR002155A18 #210
BASE M/E: 49/ 49
R1C1: 185355./ 244223.

222 METHYLENE CHLORIDE (75-09-2) MEM16

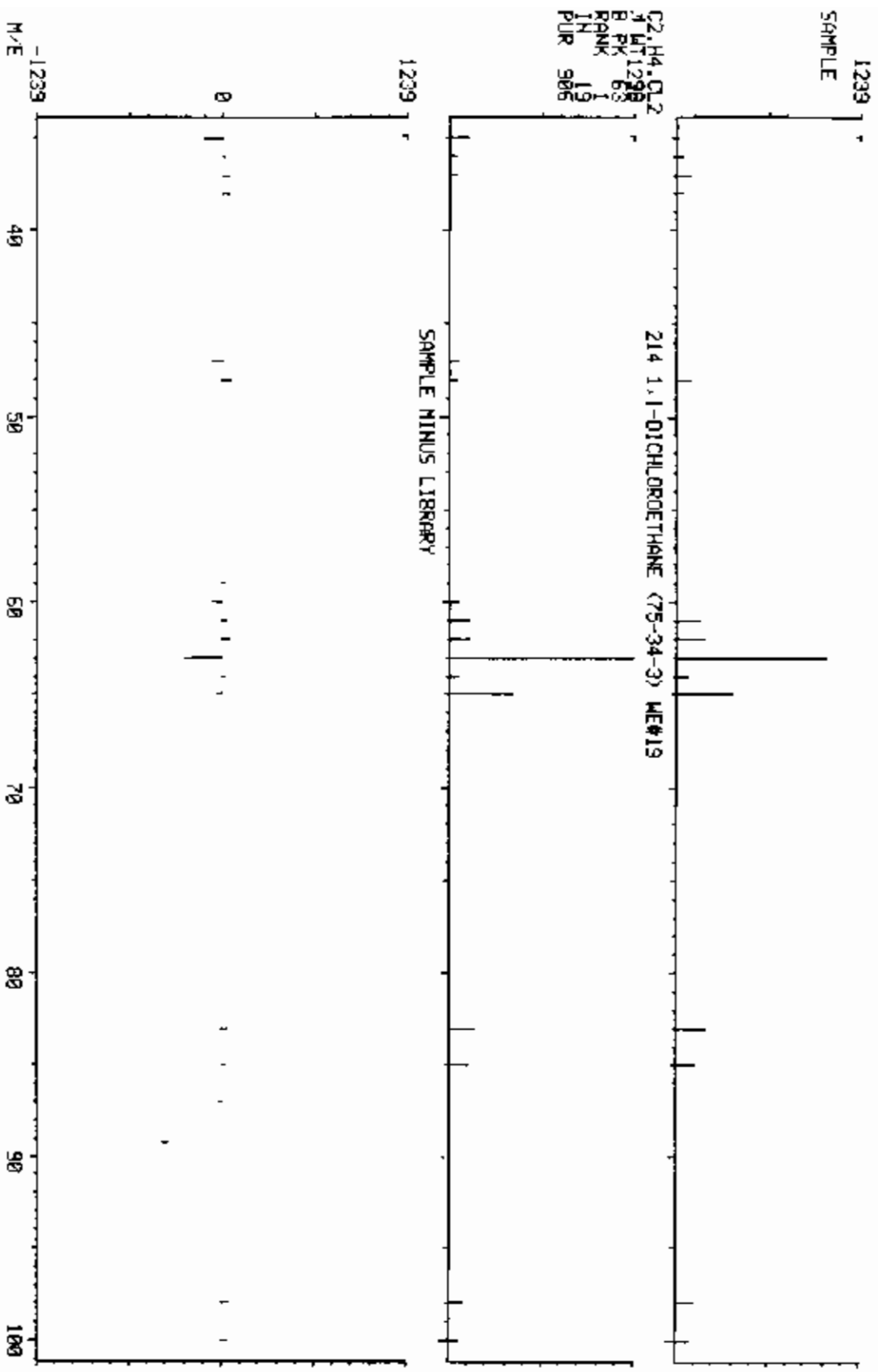


COMPUCHEM LABS

DATA: CR002155A10 # 290

BASE M/E: 63
RIC: 2511.

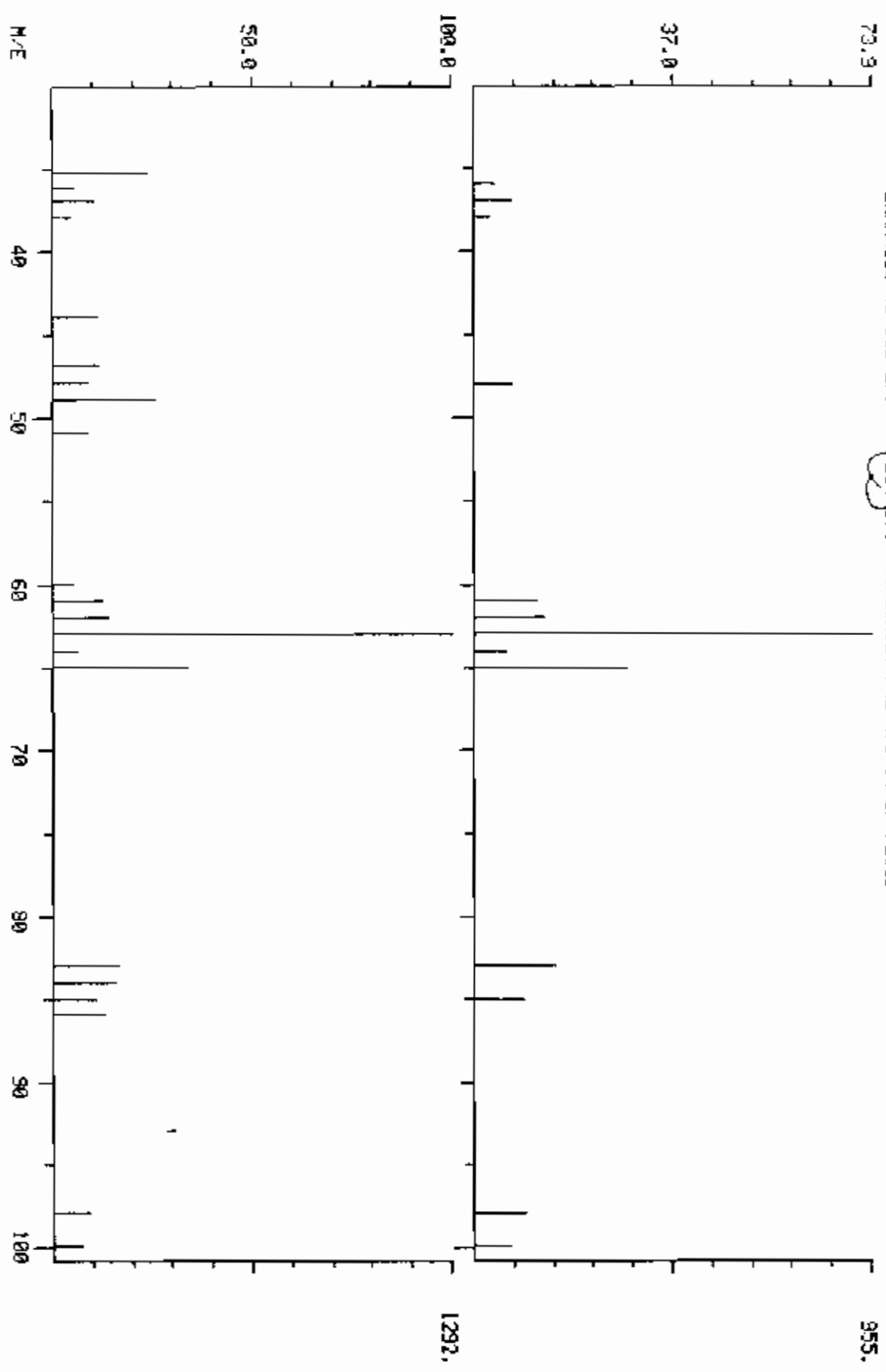
LIBRARY SEARCH
11/16/89 10:34:00 + 3:30
SAMPLE: SML EPA ID#738001-22 CCM302155 CASE#18410 5 ON#10
ENHANCED (5 150 2N 0T)



DUAL MASS SPECTRUM
11/16/09 10:34:00 + 3:30
SAMPLE: SML EPA 10#738001-22
ENHANCED (S 158 2N)

COMPUCHEN LABS

DATA: CR002155A18 #280
BASE M/E: 63/ 63
R1C: 2511.7 4583.



COMPUCHEN LABS

LIBRARY SEARCH

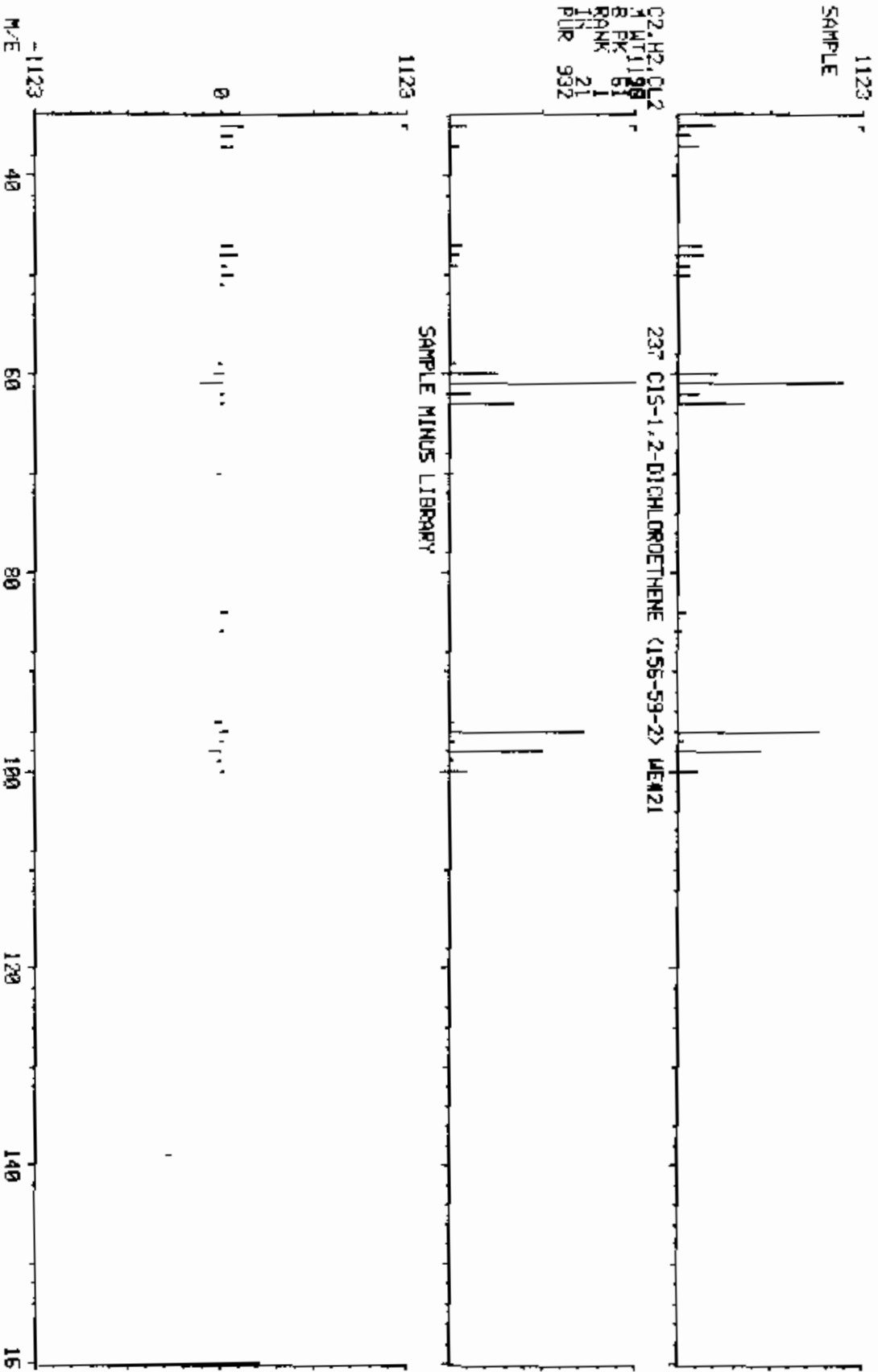
11/16/89 10:34:00 + 4:19

SAMPLE: 5ML EPA ID#738001-22 CCM302155 CASE#18410 5 ON#16

ENHANCED (S 158 ZH 01)

DATA: CR002155A18 # 346

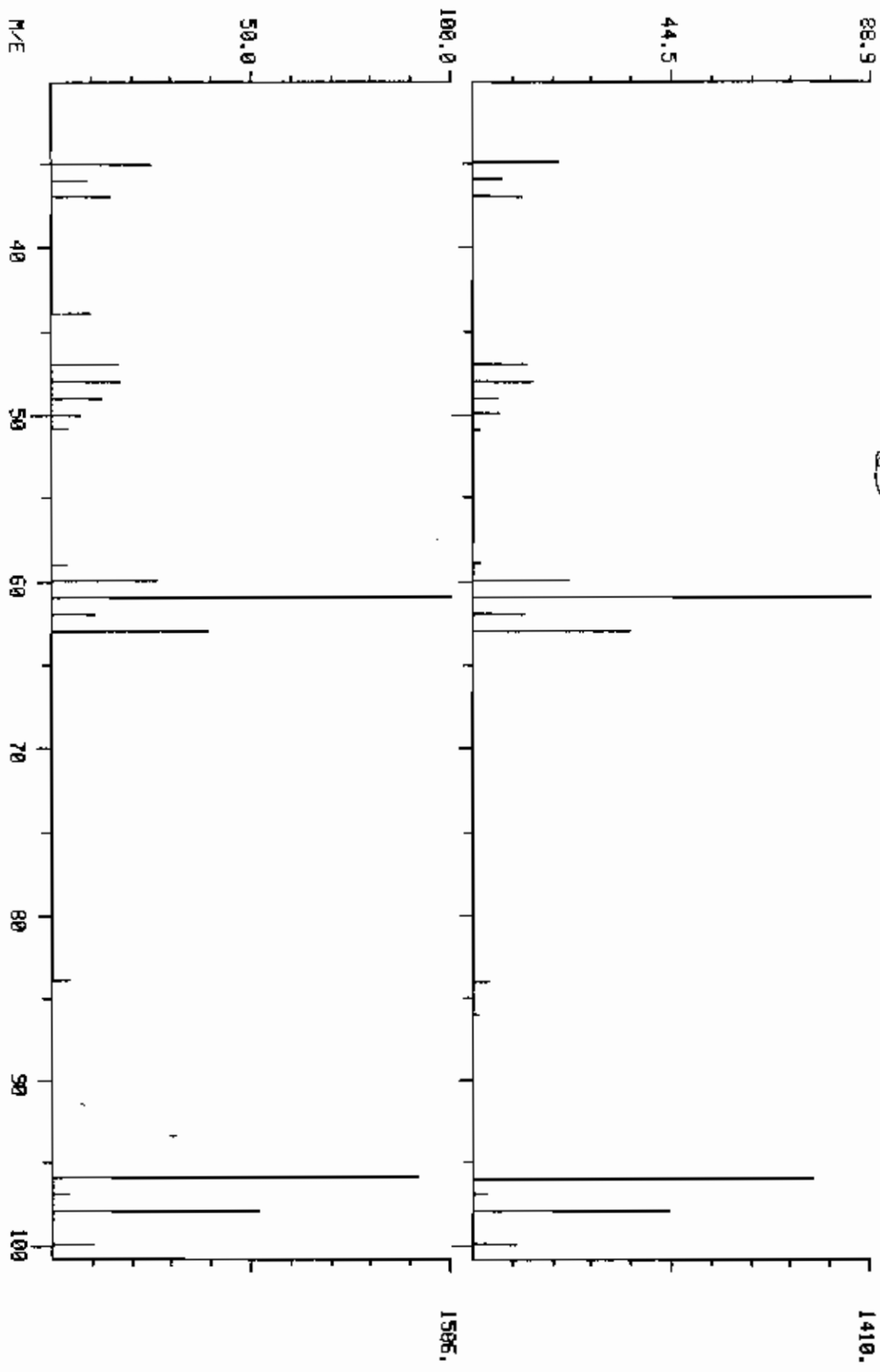
BASE M/E: 61
RIC: 5063.



DUAL MASS SPECTRUM
11/16/89 10:34:00 + 4:19
SAMPLE: SML EPA ID#738801-22 CCR#302155 CASE#18410 5.0M/18
ENHANCED (5 158 2N) 235 C15-1,2-DICHLORoETHENE (156-59-2) ME#21

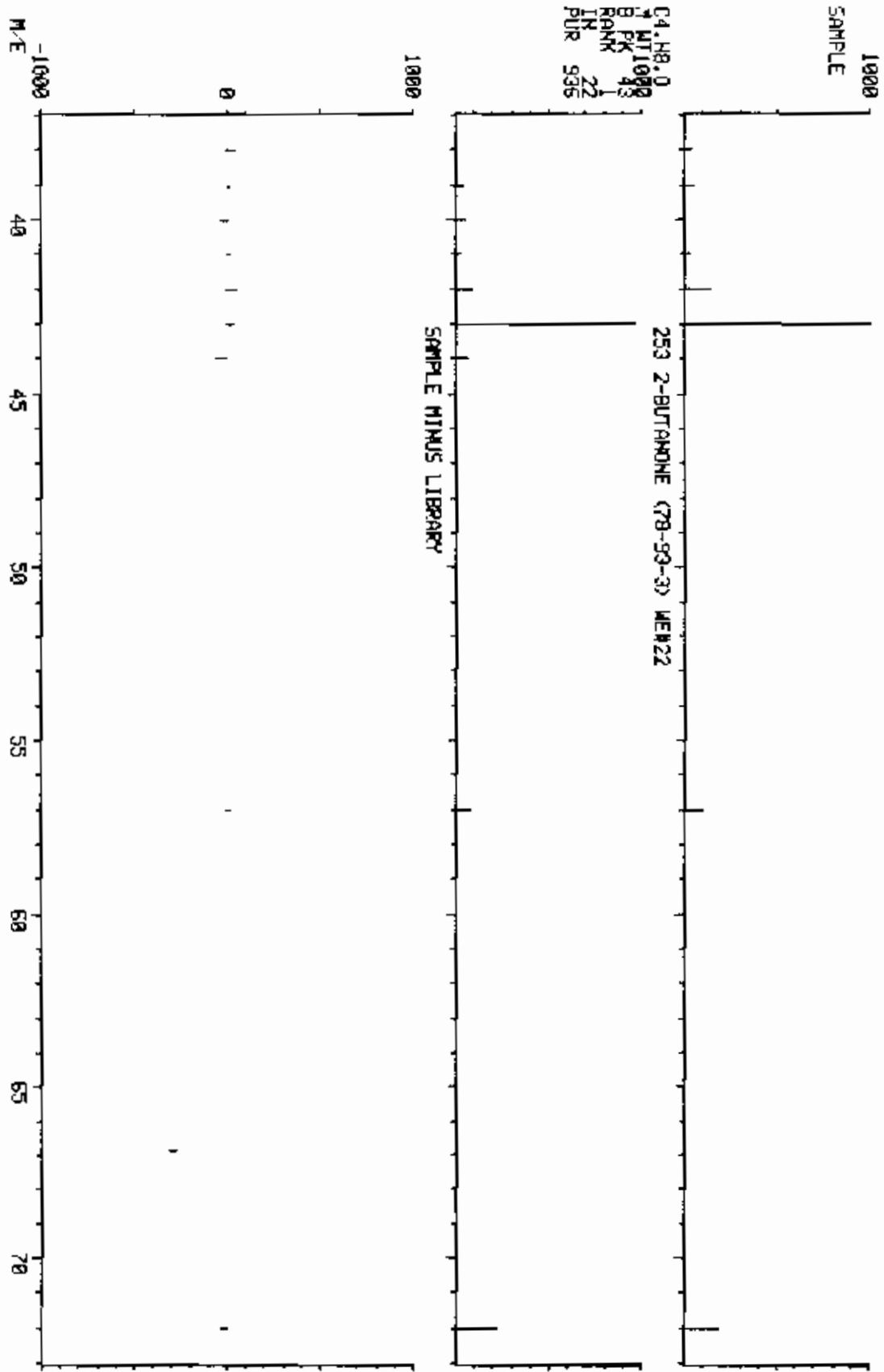
COMPUchem LABS

DATA: CR002155A18 #346 BASE M/E: 61/ 61
RIC: 5863.7 7247.



COMPUCHEN LABS
 DATA: CR002155A10 # 360 BASE M/E: 43
 11/16/89 10:34:00 + 4:30 RIC: 1987.
 LIBRARY SEARCH
 SAMPLE: SML EPA 10#736001-22 CCM802155 CASE#16410 5 ON#18
 ENHANCED (5 150 2N 0T)

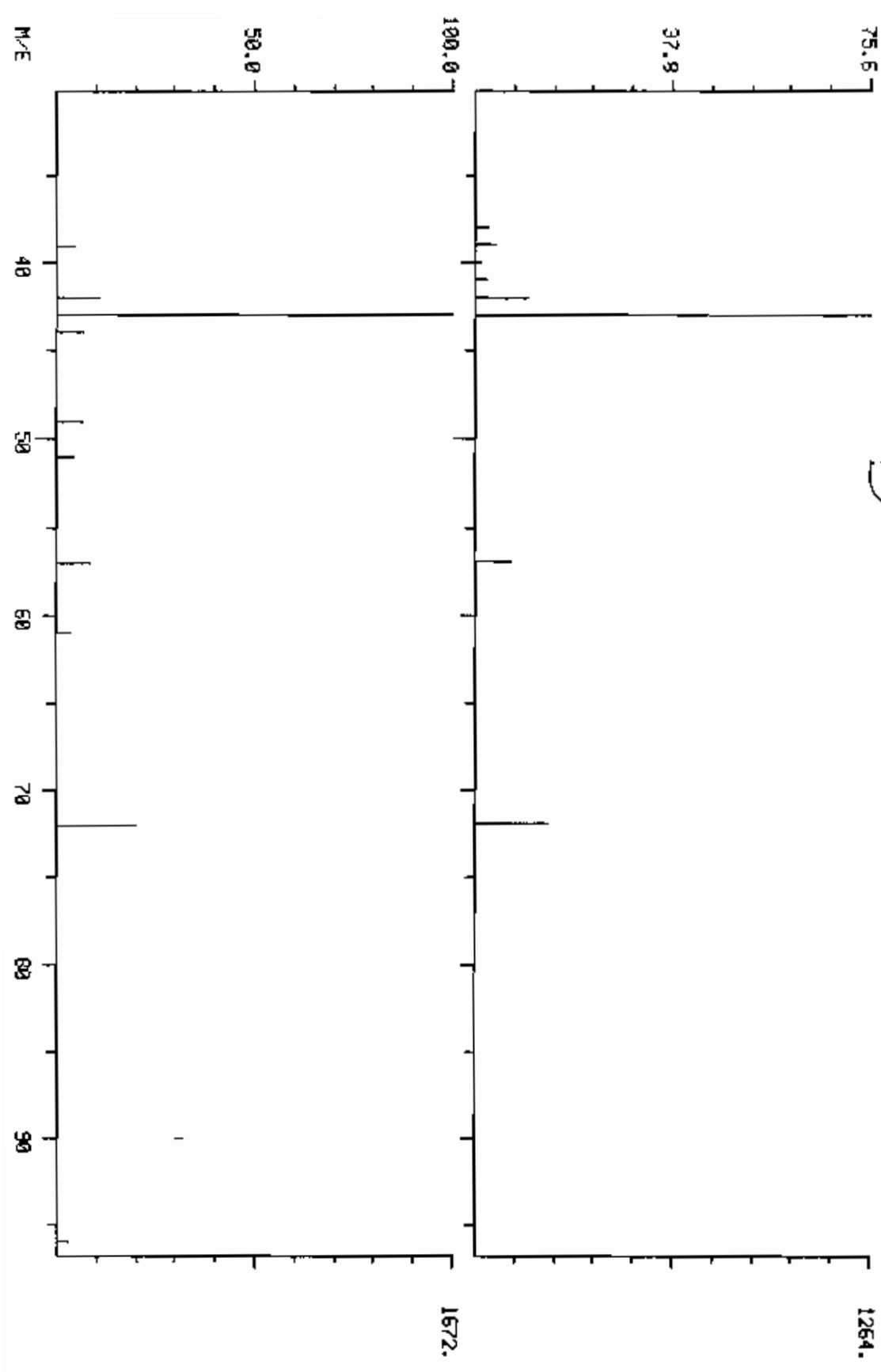
C4.H8.O
 1 MT 1000
 B PK 43
 RANK
 IN 22
 PUR 935



DUAL MASS SPECTRUM
11/16/89 10:34:00 + 4:30
SAMPLE: SML EPA ID#736001-22 CON#02155 CASE#18410 5 ON#18
ENHANCED (5 150 2N) (255) 2-BUTANONE (78-93-3) NE#22

COMPUCHEM LABS

DATA: CR002155A10 #360 BASE M/E: 43/ 43
RIC: 1937./ 2827.

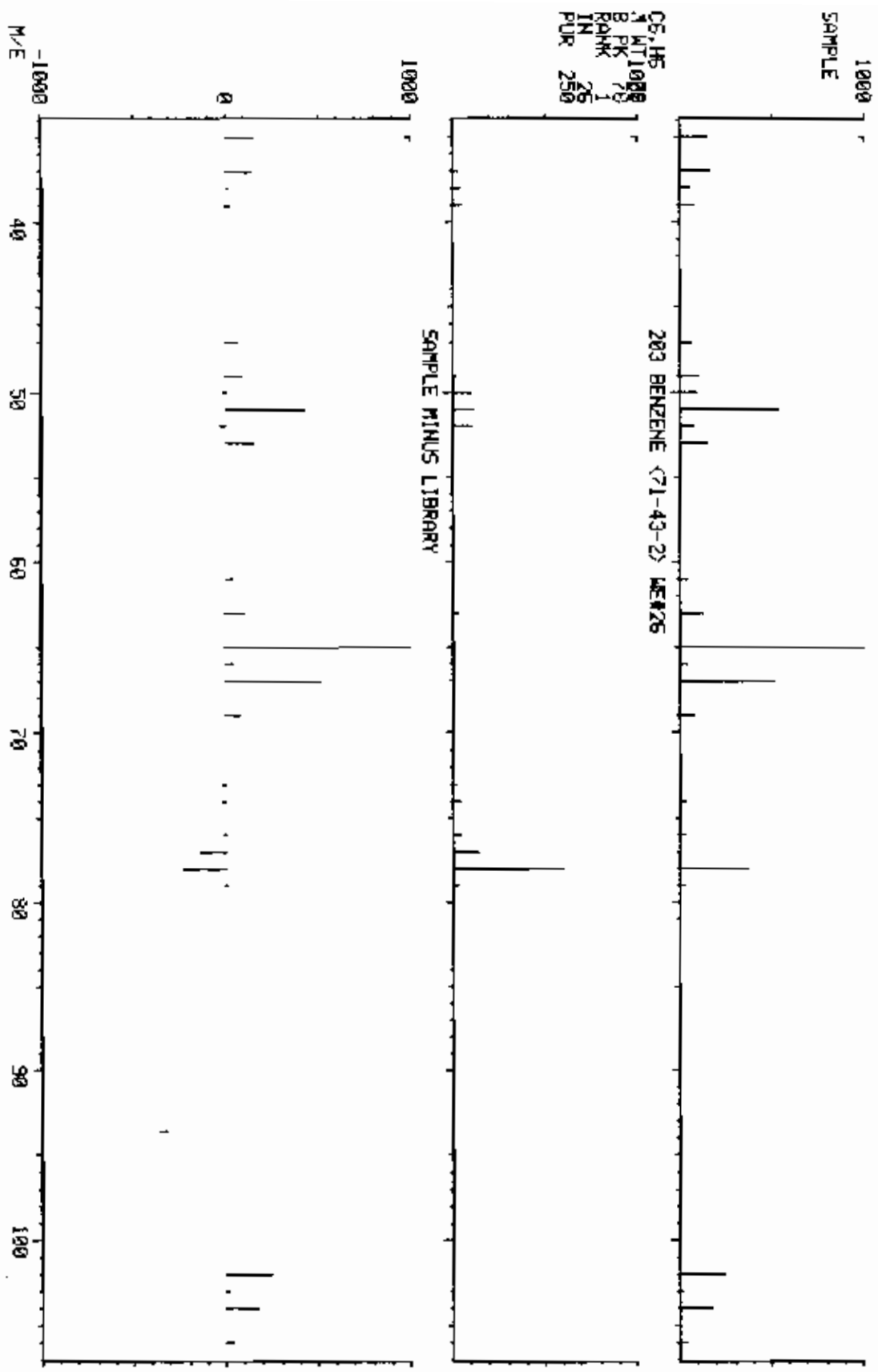


LIBRARY SEARCH
11/16/89 10:34:00 + 5:26
SAMPLE: SML EPA ID#738001-22
ENHANCED (S 158 2N 0T)

COMPUCHEM LABS
DATA: CR002155A18 # 435
CON302155 CASE#18410 5 ON#18

BASE M/E: 65
RT: 21919.

05.H5
1.471000
B PK 70
RANK 1
IN 25
PUR 250

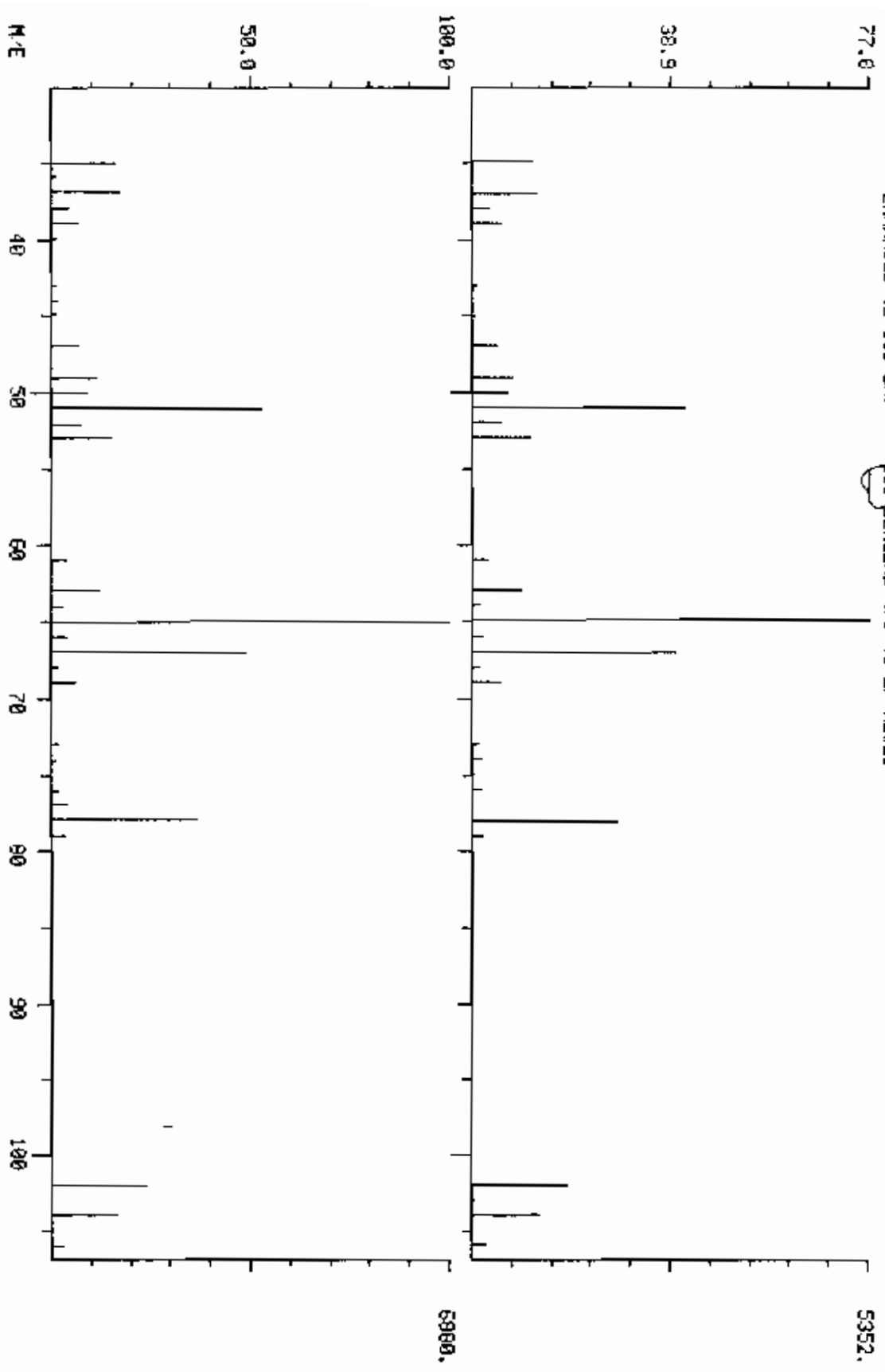


DUAL MASS SPECTRUM
11/16/89 10:34:00 + 5:25
SAMPLE: 5ML EPA ION738801-22
ENHANCED (5 158 2N)

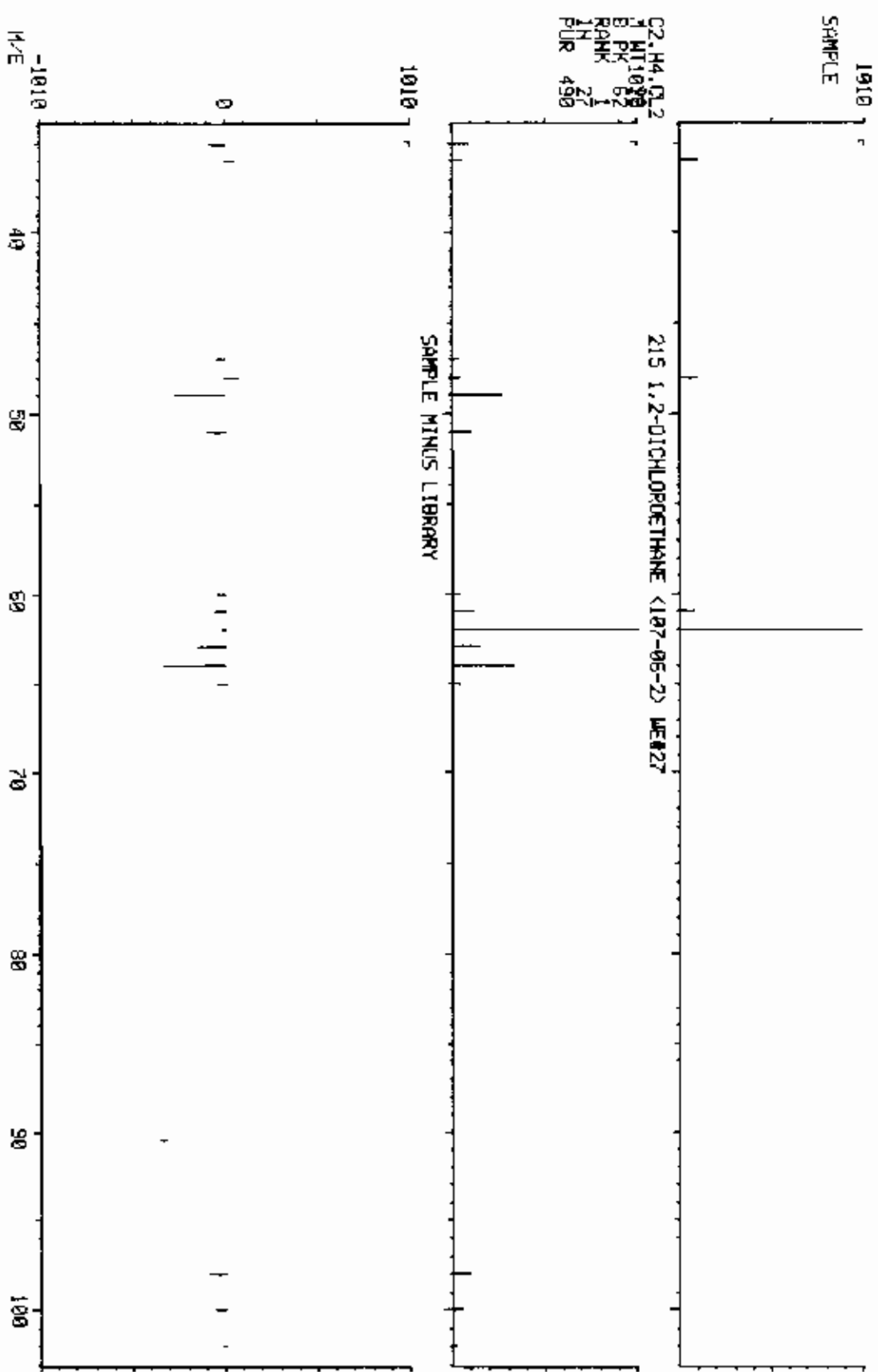
COMPUCHER LABS

DATA: CR002155A13 #435

BASE M/E: 65/ 65
RIC: 22335, 28895,



COMPUchem LABS
 DATA: CR002155A10 # 446 BASE M/E: 62
 11/16/89 10:34:00 + 5:34 RIC: 539.
 SAMPLE: SML EPA 10873801-22 CCM302155 CASE#18410 5 ON#18
 ENHANCED (5 158 2N 9T)



COMPUCHEM LABS

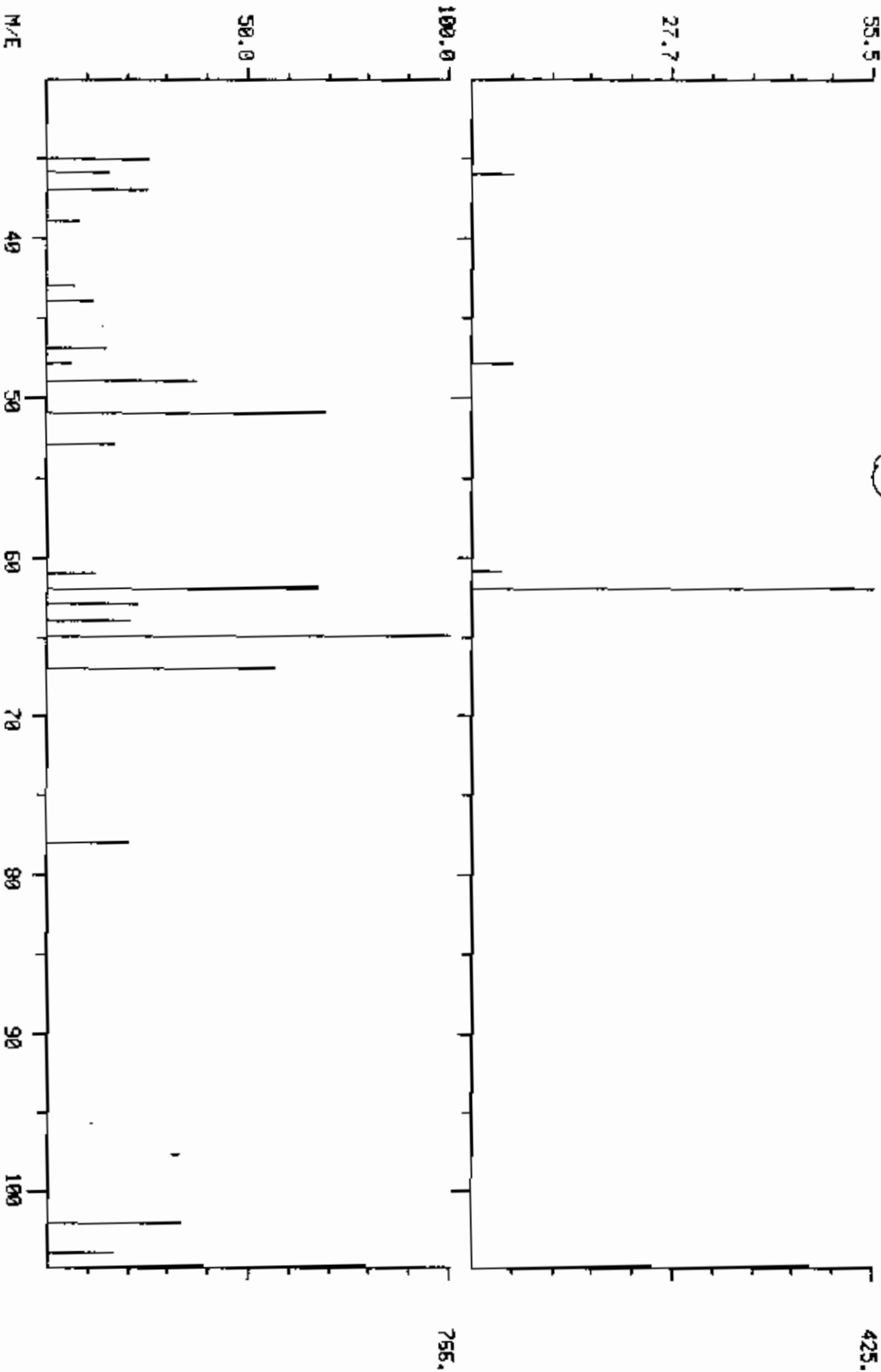
DATA: CR002155P18 #446

BASE M/E: 62/ 65

RIC: 539.7 4471.

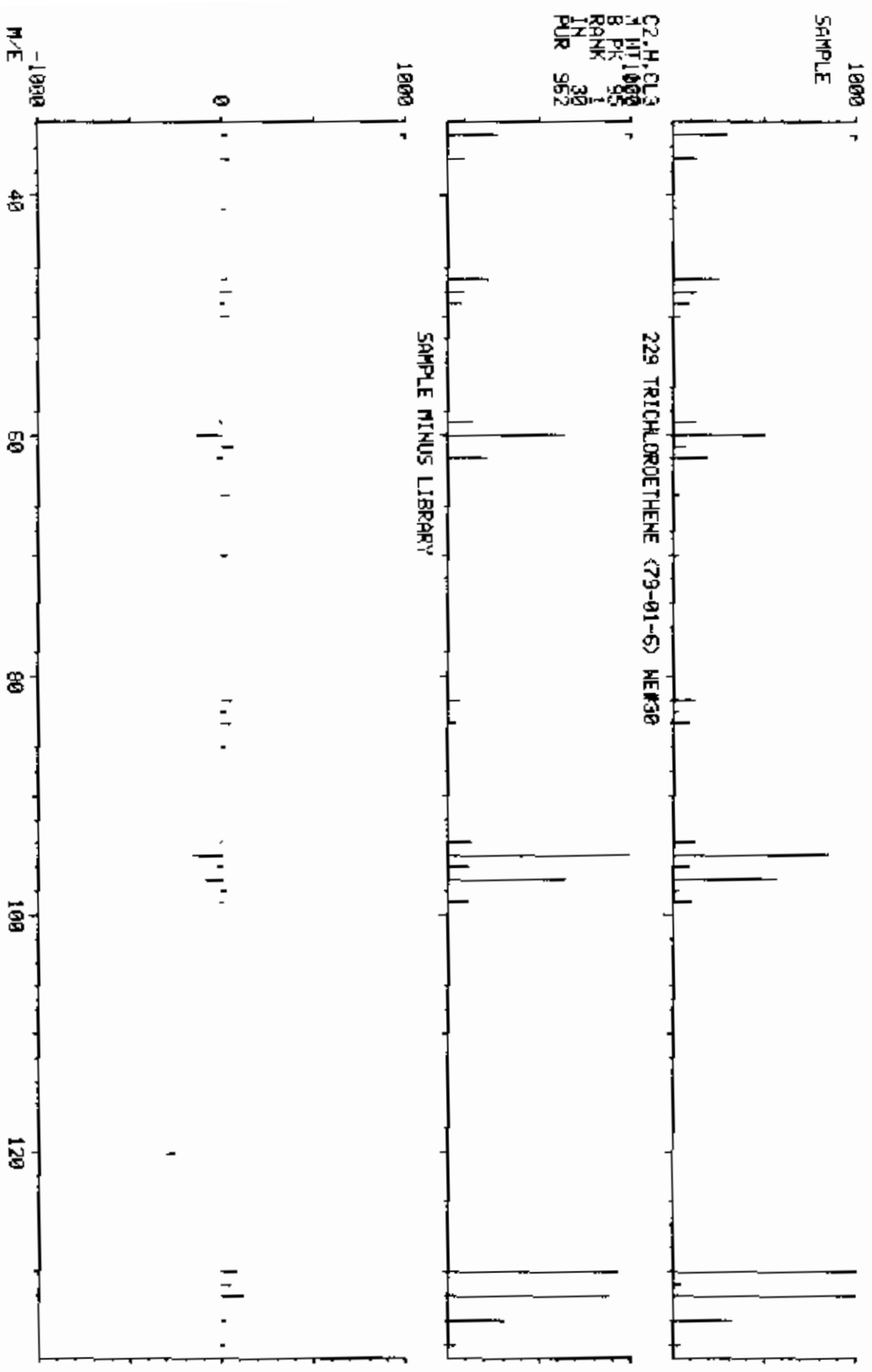
2079

DUAL MASS SPECTRUM
11/16/89 10:34:00 + 5:34
SAMPLE: SML EPA ID#739601-22 CC#302155 CASE#18410 5 ON#18
ENHANCED (S 159 2N) (215) 1,2-DICHLOROETHANE (107-06-2) MW#27



COMPUchem LABS
LIBRARY SEARCH
11/16/89 19:34:00 + 6:28
SAMPLE: SML EPA 10#736001-22 COW#302155 CASE#18410 S ON#18
ENHANCED (S 159 2N 0T)

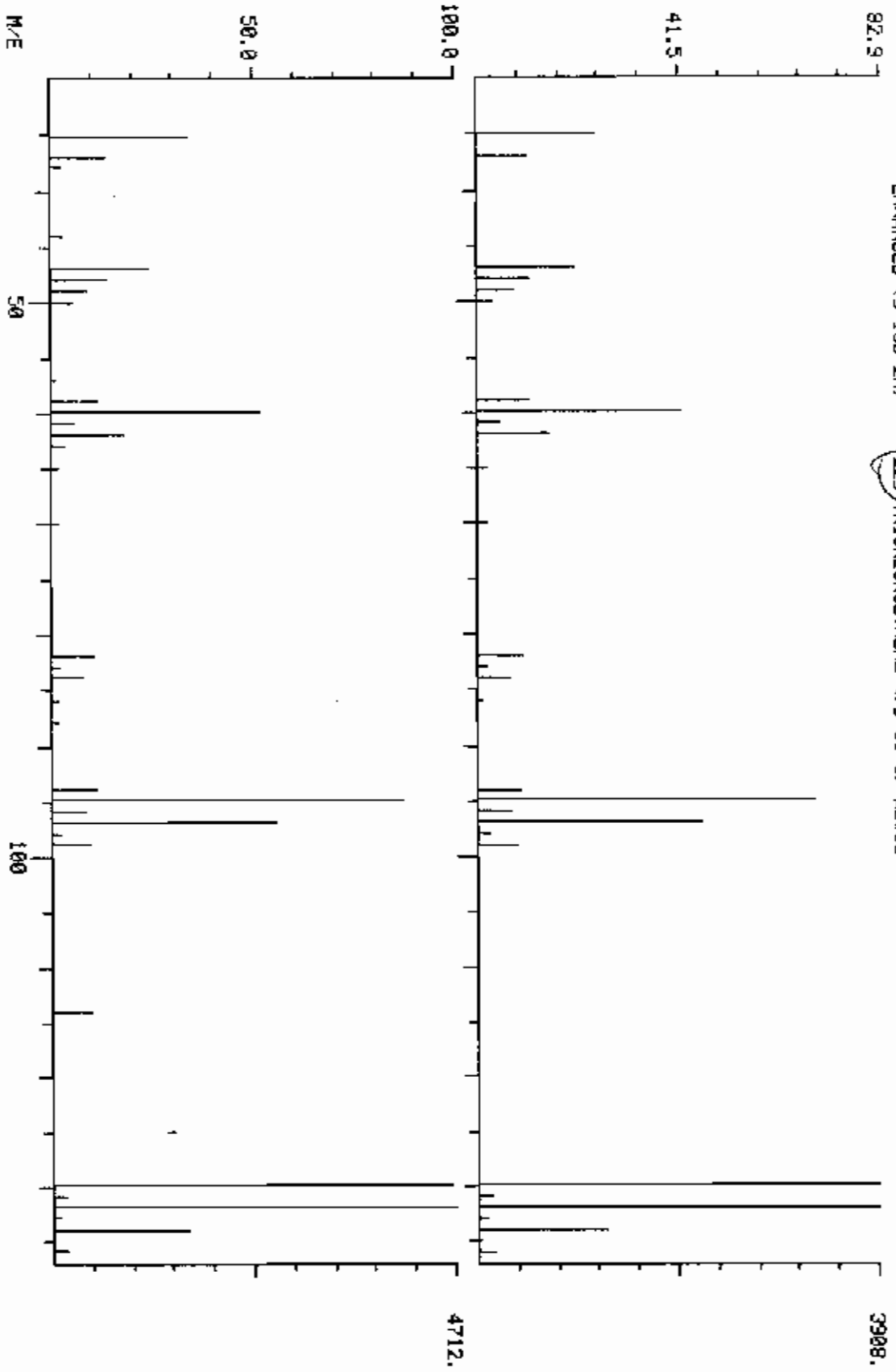
DATA: CP992155A18 # 517
BASE M/E: 130
RIC: 24063.



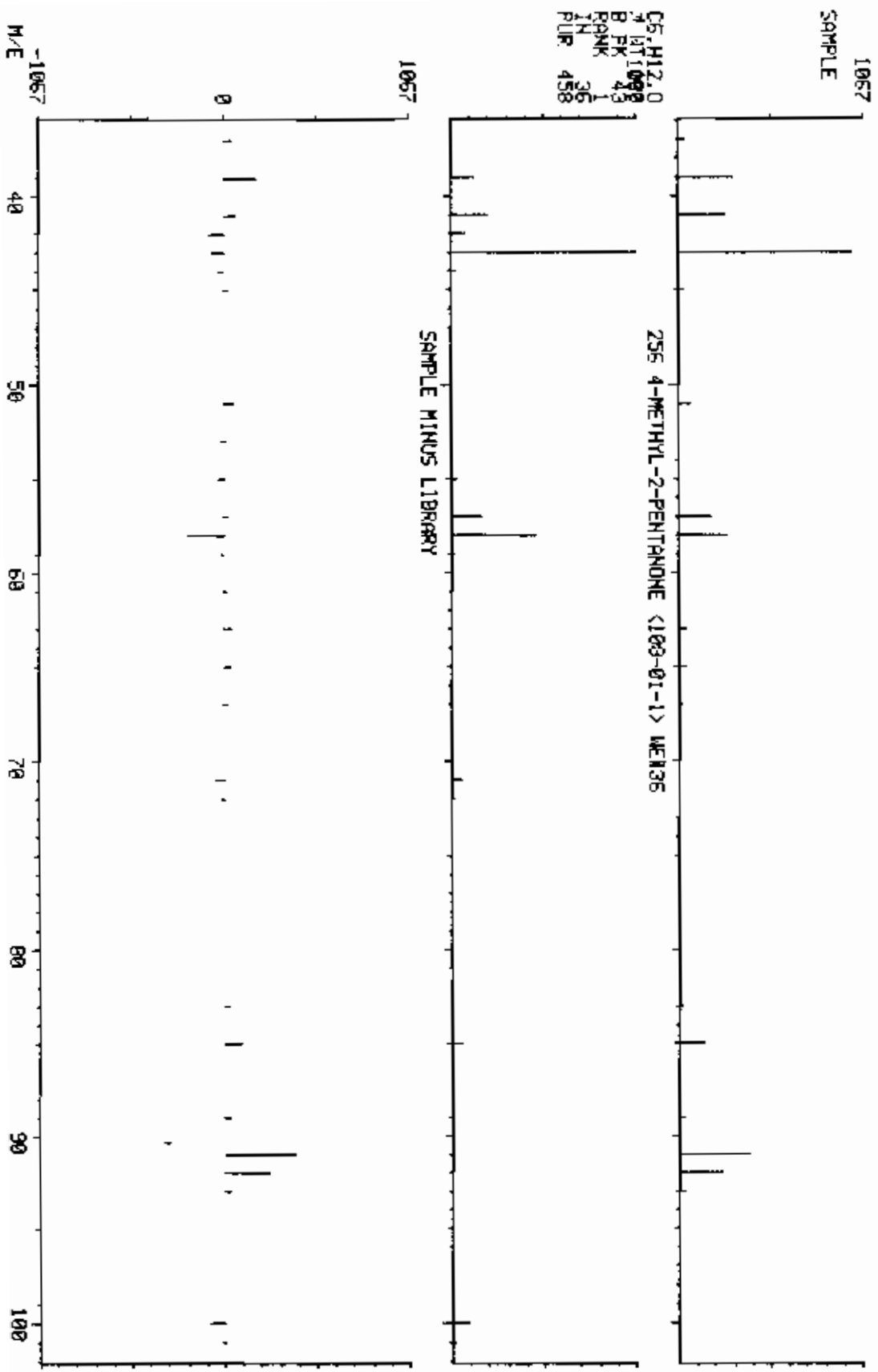
DUAL MASS SPECTRUM
11/16/89 10:34:00 + 6:29
SAMPLE: SML EPA ID#738004-22 CC#382155 CASE#18410 5 OH#18
ENHANCED (5 158 2N) 229 TRICHLOROETHENE (79-01-5) ME#30

COMPUCHEM LABS

DATA: CR02155A18 #517 BASE M/E: 130/ 132
RIC: 24191.7 30591.



COMPUCHEM LABS
 DATA: CR002155A10 # 690 BASE M/E: 43
 11/16/89 19:34:00 + 8:30
 SAMPLE: SHL EPA ID#739001-22 COW302155 CASE#18410 5 ON#18
 R/C: 12063.
 ENHANCED (S 198 2N 01)



C5 H12 O
 7 AT 1098
 R PK 43
 RPK 36
 N 1
 PUR 458

COMPOUNEN LABS

DATA: CR002155A18 #680

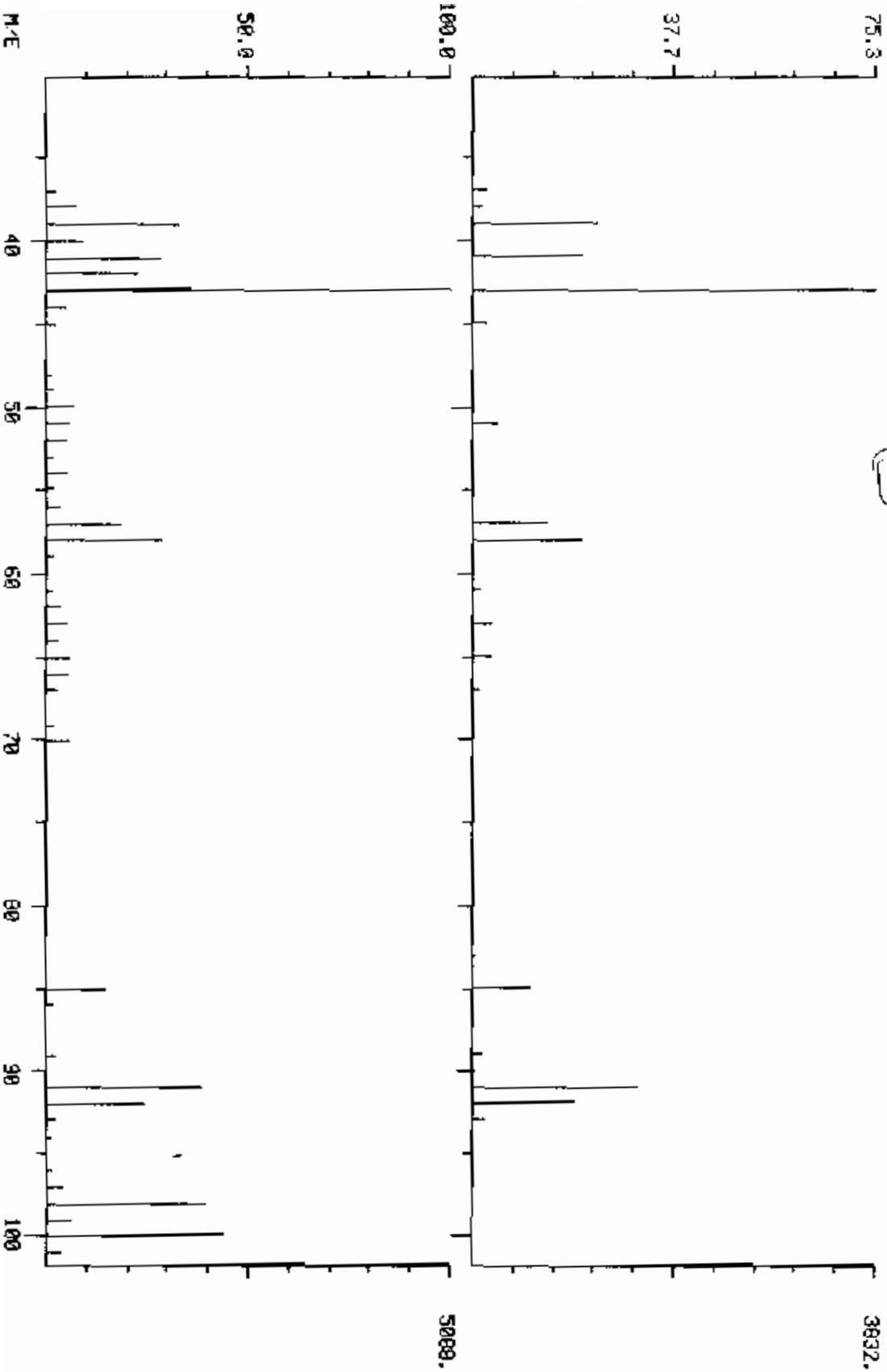
BASE M/E: 43/ 43
RIC: 12175.7 25695.

DUAL MASS SPECTRUM

11/16/89 10:34:00 + 8:30

SAMPLE: 5ML EPA ID#739001-22 CON02155 CASE#19410 5 ON#18

ENHANCED (5 158 2M) 256 M-METHYL-2-PENTANONE <108-01-1> ME#35

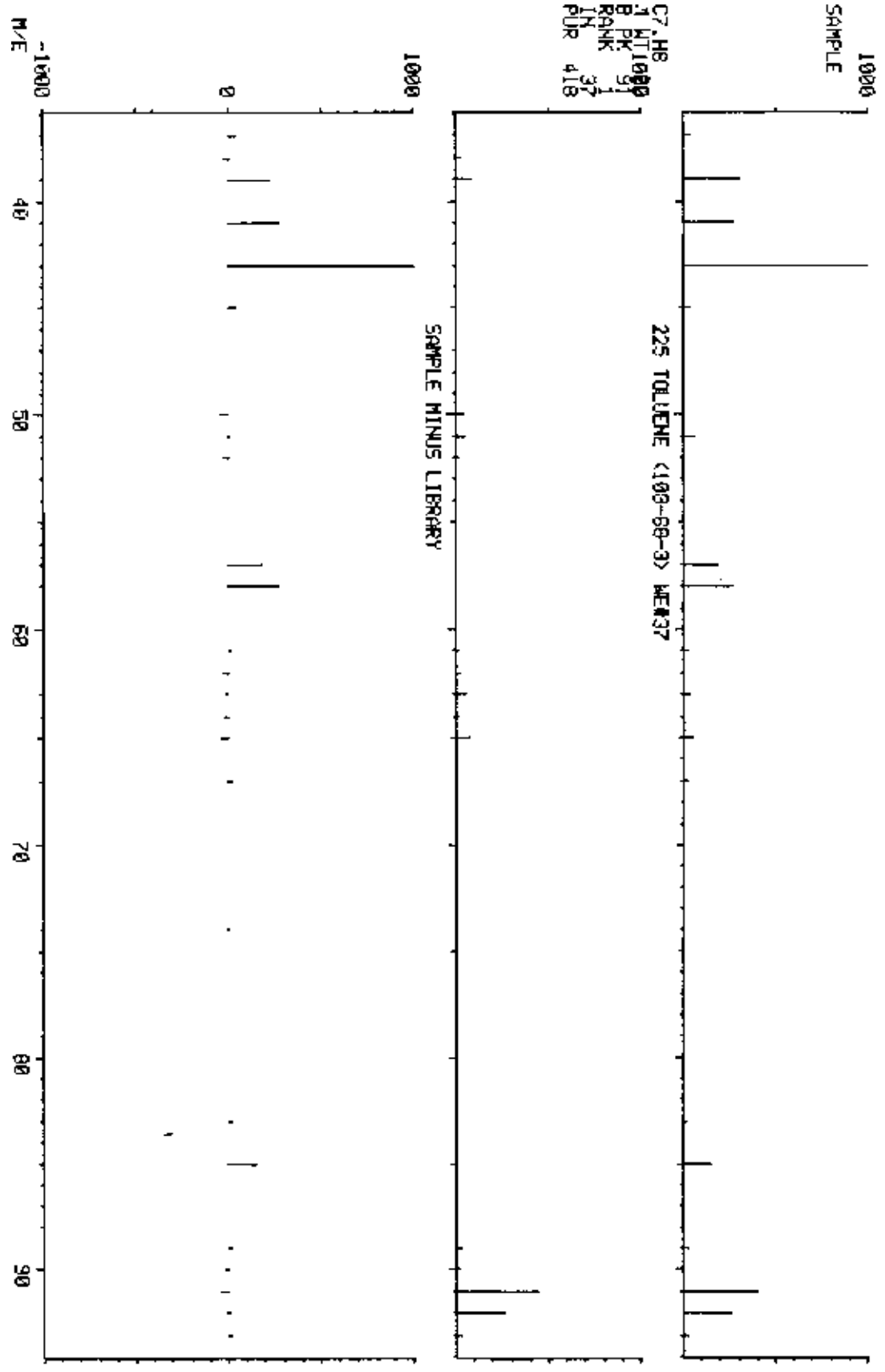


LIBRARY SEARCH
11/16/89 10:34:00 + 8:30
SAMPLE: 5ML EPA ID#738901-22
ENHANCED (5 158 2N 9T)

COMPUCHEM LABS
DATA: CR002155A19 # 600
CC#302155 CASE#19410 5 ON#18

BASE M/E: 43
R/C: 12063.

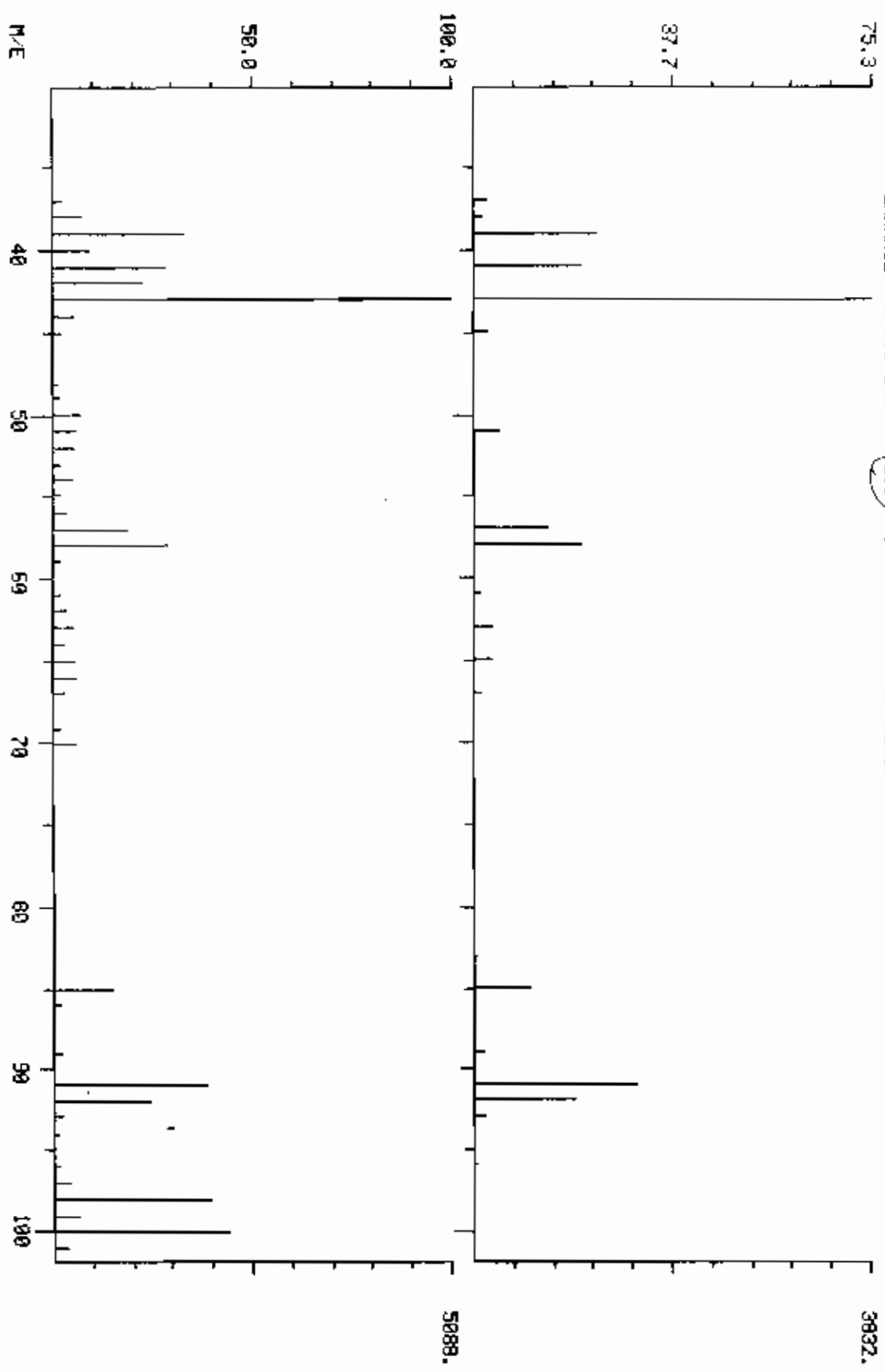
C7.H8
1 HT 1000
R PK 91
RANK 37
IN 418
PUR 418



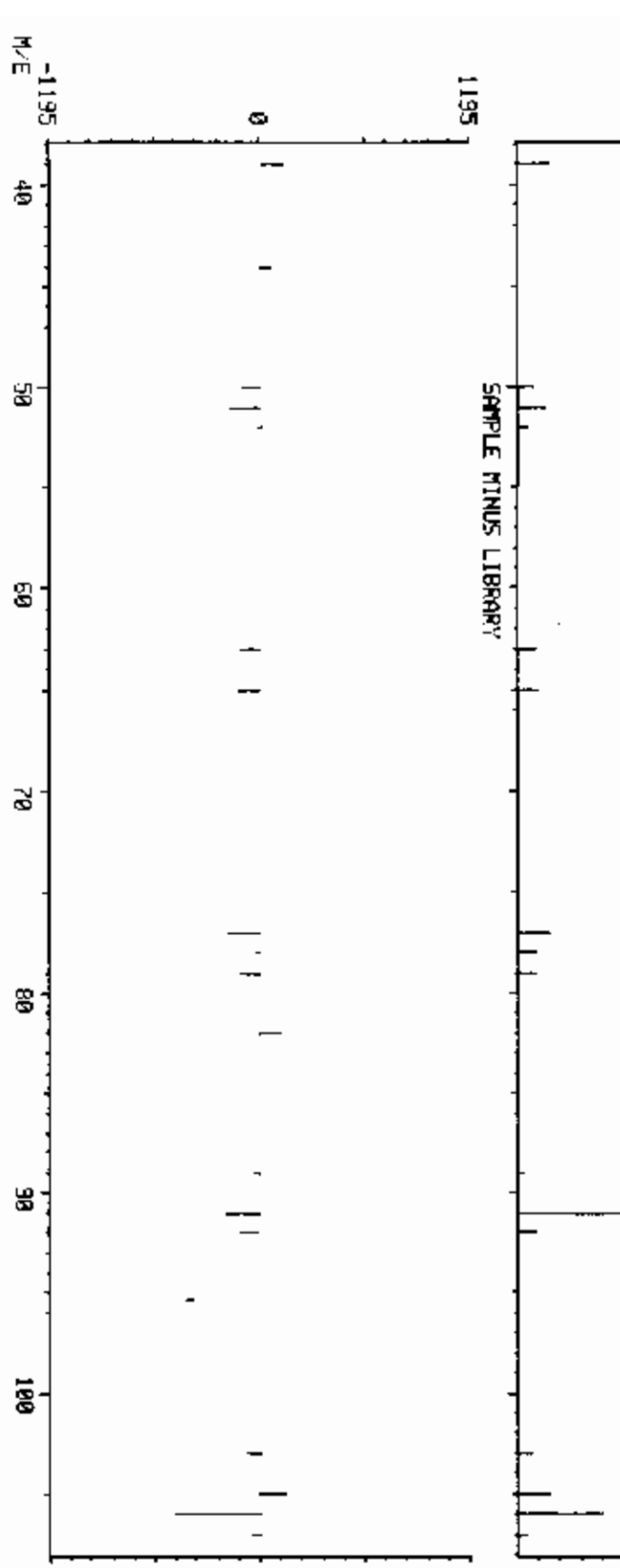
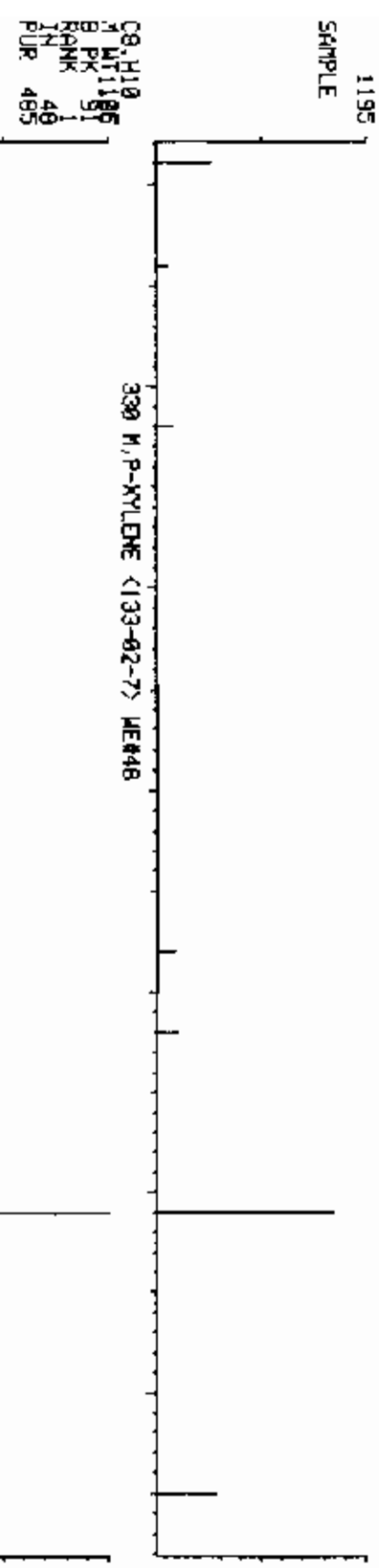
DUAL MASS SPECTRUM
11/16/89 10:34:00 + 0:30
SAMPLE: 5HL EPA 10#738001-32 CC#302155 CASE#18410 5 ON#18
ENHANCED (5 150 2N) (225) TOLUENE (180-80-3) ME#37

COMPUCHEM LABS

DATA: GR002155A18 #680 BASE M/E: 43/ 43
R1C: 12175. / 25695.



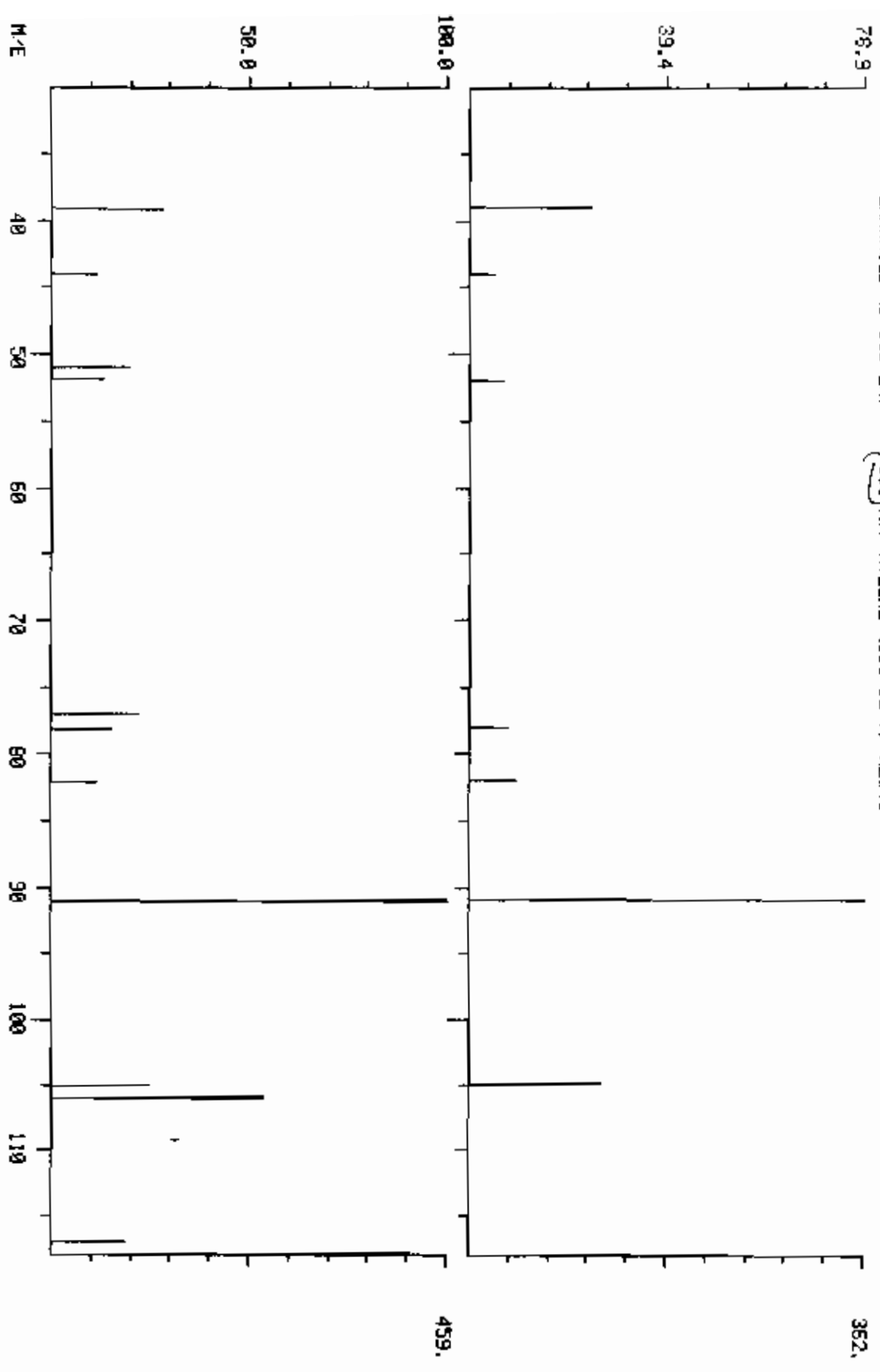
COMPUchem LABS
 DATA: CR002155A19 # 913
 BASE M/E: 91
 11/15/89 10:34:00 + 11:25
 SAMPLE: SML EPA ID#738901-22 CCM302155 CASE#18410 5 ON#18
 RIC: 722,
 ENHANCED (S 158 2N 8T)



DUAL MASS SPECTRUM
11/16/89 10:34:00 + 11:25
SAMPLE: SML EPA ID#738001-22 CC#302155 CASE#18410 5 QM#13
ENHANCED (S 158 2M) (330) M,P-XYLENE (133-02-7) MEM#8

COMPUCHEM LABS

DATA: CR002155A18 #913 BASE M/E: 91/ 91
RIC: 722.7 1455.



LIBRARY SEARCH
 11/15/89 10:34:00 + 2:07
 SAMPLE: SML EPA ID#738001-22 CCM302155 CPSE#18410 5 ON#18
 ENHANCED (S 158 2H 0T)

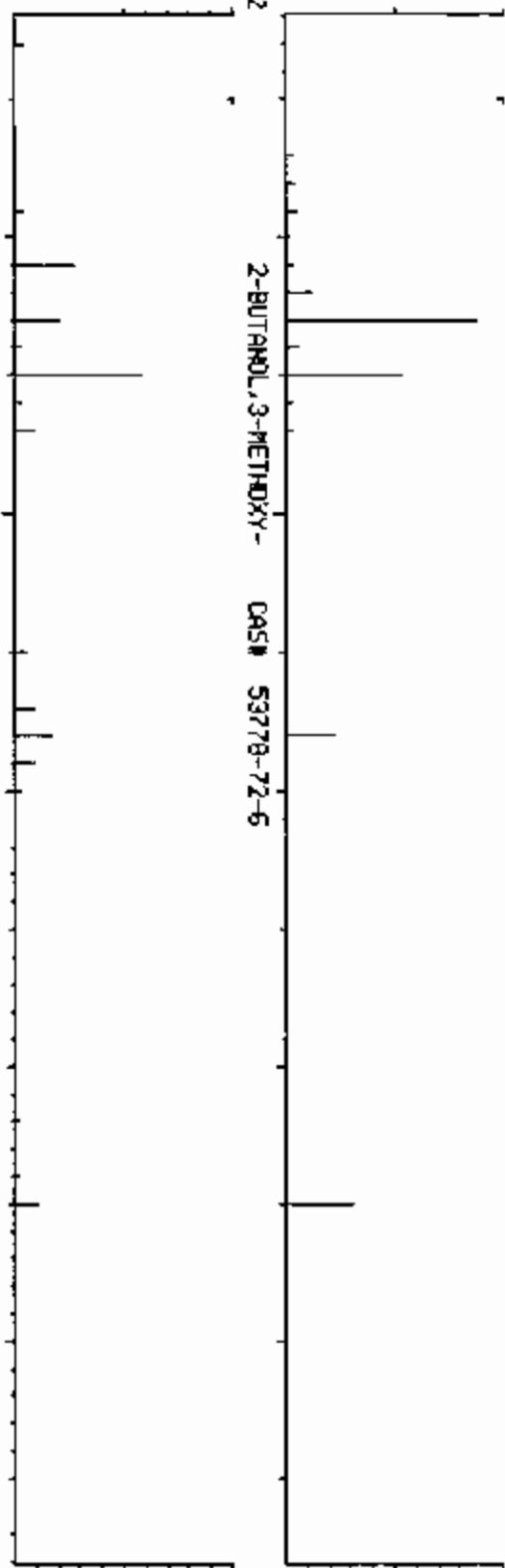
COMPUCHEN LABS
 DATA: C0002155R18 # 170
 BASE M/E: 43
 RIC: 18143.

1152
 SAMPLE

C5.H12.02

M RT 1152
 S PK 184
 RANK 45
 IN 1350
 PUR 661

2-BUTANOL,3-METHOXY- CAS# 53778-72-6



C3.H8.02

M RT 1152
 S PK 43
 RANK 2
 IN 270
 PUR 659

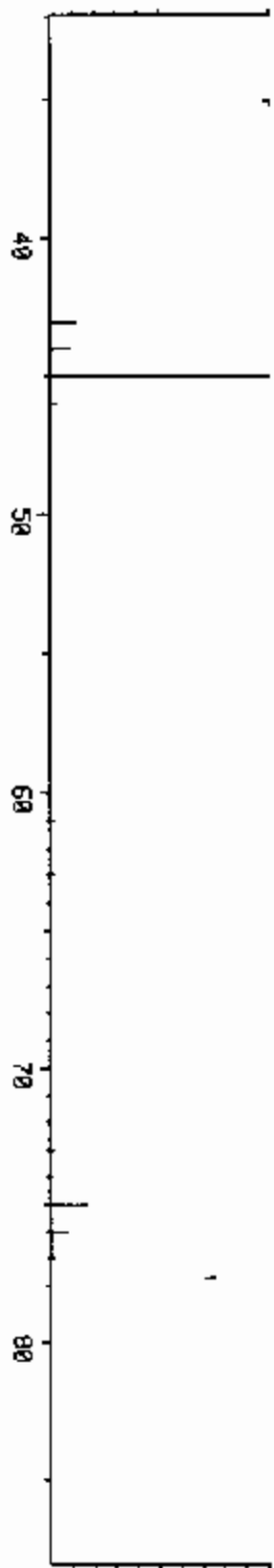
HYDROPEROXIDE,1-METHYLETHYL CAS# 3031-75-2



C4.H10.03

M RT 1152
 S PK 102
 RANK 45
 IN 1408
 PUR 645

ETHANOL,2,2'-OXYBIS- CAS# 111-46-6



M/E

LAB INSTRUCTIONS:

RECEVOA DATE
GC/MS WORKSHEET

CASE#: 18410 5
COMPUCHEM#: 302155R

OJC 1 JJC 1 DI 1 (:1)
JEC 1 J4C 1 DEC 1 (:1)

GC/MS; VOA; WATER; EPA SOW 2/88

Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

SAMPLE ID#: 738001-22

GC/MS ANALYSIS

Amount Purged: [] 5mls or [] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename RF891116C18 Disk (10322)
Blank Filename LS891116C18 Disk ()
Standard Filename LS891116C18 Disk ()
Sample Filename CR002155A18 Disk ()

ANALYST(S): Injection 157/KL Work-up 153K

GC/MS REVIEW

CONDITION CODES

DI

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

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

Extraneous Peak Search Results:
of Peaks Found: 1

Disposition: [] Complete
[] Reinject Neat
[] Dilute 1:10

Quality Assurance Notice(s):
Notices Required 0



1800/kl

COMMENTS:

GC/MS Review 1/12/84 Date 1/12/84 Auditor _____ Date 1/1/84

REPORT INTEGRATION

Total # of Injections: 3

Final Reportable Package(s): CR0-A18 / CR2-A18

QA COMMENTS:

Initials _____ Date 1/1/84

FINAL REVIEW:

Initials _____ Date 1/1/84
AC1004 (03/89)

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	370	39100	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE			1.7	BDL 2J	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			278.0	280.0	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	497	146000	50.0		
222	84	METHYLENE CHLORIDE			426.0	430.0	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE			7.6	8	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE			10.2	10	5
253	72	2-BUTANONE			40.1	40	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE			9.4	9	5
215	62	1,2-DICHLOROETHANE			3.2	3J	5
270	117 I	D3-CHLOROBENZENE (IS)	866	135000	50.0		
229	130	TRICHLOROETHENE			29.8	30	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE			48.9	49	10
225	92	TOLUENE			6.5	6	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE			1.5	BDL 1J	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE			1.0	1J	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	69 S	D4-1,2-DICHLOROETHANE WE#57			30.8	102. X	
247	95 S	BROMOFLUOROBENZENE			48.4	97. X	
233	98 S	D8-TOLUENE WE#59			53.0	106. X	
289	106	XYLENES (TOTAL)			1.0	1J	5


CORRECTED/REVIEWED BY *Oletha*
(GC/MS DATA REVIEWER)

DATE 11-20-89

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP				QUANT	REPORTED	DETECT.
#	M/E F	COMPOUND NAME	SCAN	REPORT	AMOUNT	LIMIT
				VALUE	(UG/L)	(UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)		10.2	10	5
CHECKSUMS:						
	3979.		1733	320100.	1177.1	1185.

CORRECTED/REVIEWED BY



(GC/MS DATA REVIEWER)

DATE

11-20-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	50.8	50.0	102.	76-114	X	
41	247	DROMOFLUOROBENZENE	48.4	50.0	97.	86-115	X	
42	233	D8-TOLUENE WE#59	53.0	50.0	106.	88-110	X	

* ADVISORY SURROGATE ONLY

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

CORRECTION FACTOR CALCULATION:

5000 UL

----- =
VOLUME OF SAMPLE PURGED (UL)

5000 UL

= 1.00 =

5.000 ML ✓

5000. (UL)-----
5.000 (ML)

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

=====

VERSION 8

CORRECTED/REVIEWED BY

Okjh
(GC/MS DATA REVIEWER)

DATE

12/28/99

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-22RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302155
 Sample wt/vol: 1.8 (g/mL) ML Lab File ID: C2R02155A18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	UG/L	Q
74-87-3	-----Chloromethane	28	U
74-83-9	-----Bromomethane	28	U
75-01-4	-----Vinyl Chloride	28	U
75-00-3	-----Chloroethane	28	U
75-09-2	-----Methylene Chloride	420	D
67-64-1	-----Acetone	280	D
75-15-0	-----Carbon Disulfide	14	U
75-35-4	-----1,1-Dichloroethene	14	U
75-34-3	-----1,1-Dichloroethane	7	DJ
540-59-0	-----1,2-Dichloroethene (total)	9	DJ
67-66-3	-----Chloroform	14	U
107-06-2	-----1,2-Dichloroethane	14	U
78-93-3	-----2-Butanone	26	DJ
71-55-6	-----1,1,1-Trichloroethane	14	U
56-23-5	-----Carbon Tetrachloride	14	U
108-05-4	-----Vinyl Acetate	28	U
75-27-4	-----Bromodichloromethane	14	U
78-87-5	-----1,2-Dichloropropane	14	U
10061-01-5	-----cis-1,3-Dichloropropene	14	U
79-01-6	-----Trichloroethene	28	D
124-48-1	-----Dibromochloromethane	14	U
79-00-5	-----1,1,2-Trichloroethane	14	U
71-43-2	-----Benzene	9	DJ
10061-02-6	-----Trans-1,3-Dichloropropene	14	U
75-25-2	-----Bromoform	14	U
108-10-1	-----4-Methyl-2-Pentanone	56	D
591-78-6	-----2-Hexanone	28	U
127-18-4	-----Tetrachloroethene	14	U
79-34-5	-----1,1,2,2-Tetrachloroethane	14	U
108-88-3	-----Toluene	6	DJ
108-90-7	-----Chlorobenzene	14	U
100-41-4	-----Ethylbenzene	14	U
100-42-5	-----Styrene	14	U
1330-20-7	-----Total Xylenes	14	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

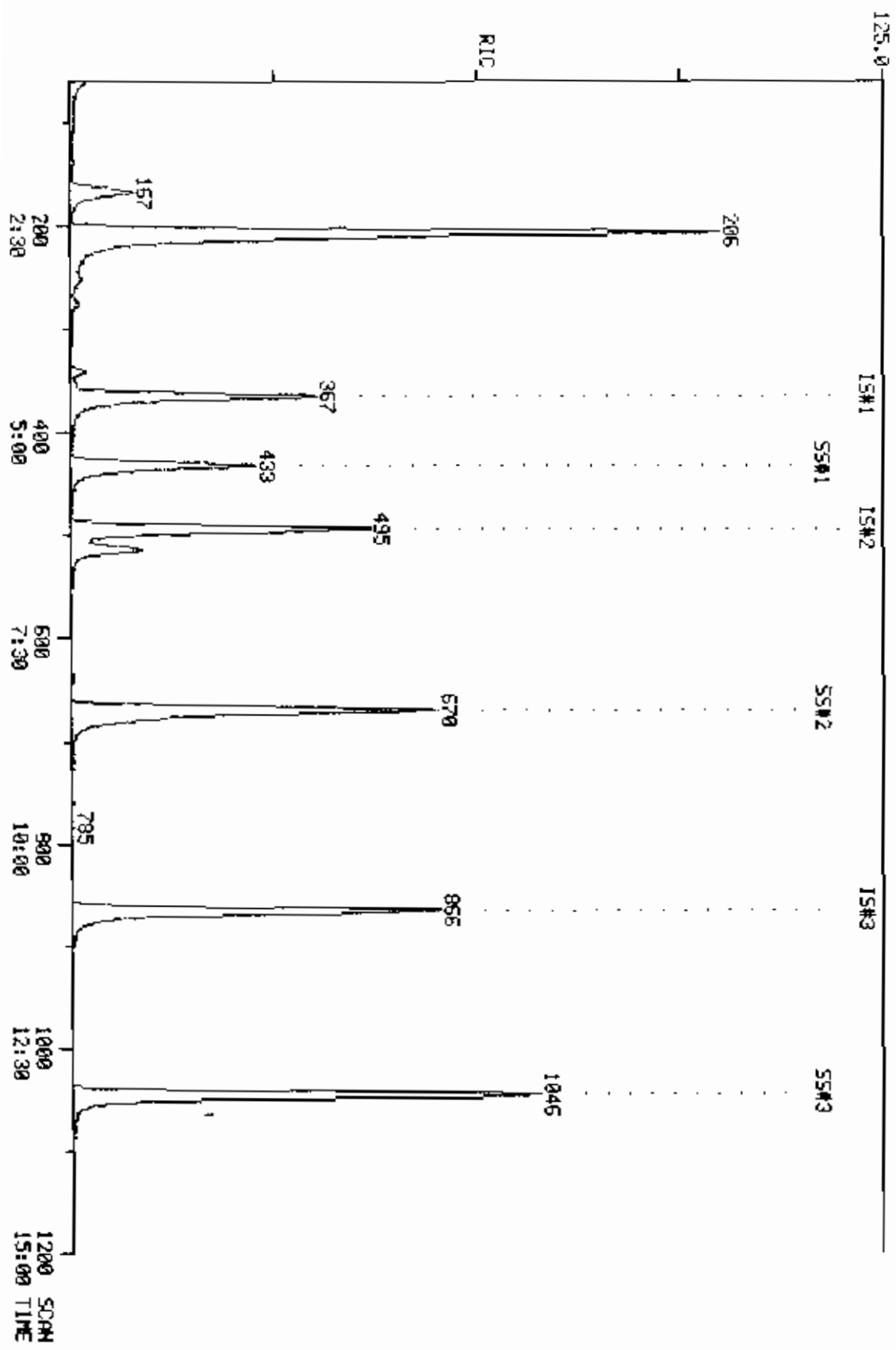
738001-22RE

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302155
 Sample wt/vol: 1.8 (g/mL) ML Lab File ID: CZR02155A18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.08	42	J.

11/16/89 11:56:00
 SAMPLE: 1900UL EPA ID#738801-22 *(P. 2000 2.16)*
 COND.S.:
 COMPUTER LABS
 COMPUTER DATA: CR02155A18 SCANS 60 TO 1298
 120000.



QUANTITATION REPORT FILE: C2R02155A1B
 DATA: C2R02155A1B.TI
 11/16/89 11:56:00
 SAMPLE: 1800UL EPA ID#73B001-22 ^{RE 01/10/89} CC#302155 CASE#18410 3 ON#18
 CONDS.:
 SUBMITTED BY: 18 ANALYST: 1577

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	229 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <79-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	*233 D8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	129	367	4:35	1	1.000	A BB	40963.	50.000 UG/L	6.34
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	168	2:06	1	0.458	A BB	38961.	99.545 UG/L	16.60 ^{Y2}
9	114	493	6:11	9	1.000	A BB	149633.	50.000 UG/L	8.34
10	84	206	2:34	1	0.561	A BB	163249.	149.733 UG/L	24.97 ^{Y2}
11	96	NOT FOUND							
12	63	276	3:27	1	0.752	A BB	4120.	2.444 UG/L	0.41 ^{Y2}
13	43	NOT FOUND							
14	96	342	4:16	1	0.932	A BB	3631.	3.102 UG/L	0.52 ^{Y2}
15	72	357	4:28	1	0.973	A BB	755.	9.414 UG/L	1.57 ^{Y2}
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	431	5:23	9	0.871	A BV	7317.	3.183 UG/L	0.53 ^{Y2}
20	62	NOT FOUND							
21	117	066	10:49	21	1.000	A BB	134933.	50.000 UG/L	8.34
22	130	313	6:26	9	1.040	A BV	14042.	10.195 UG/L	1.70 ^{Y2}
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	679	8:29	21	0.784	A BB	18636.	20.013 UG/L	3.34 ^{Y2}
27	92	678	8:28	21	0.783	A BB	3528.	2.052 UG/L	0.34 ^{Y2}
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	10A	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	433	5:25	1	1.180	A BB	64729.	47.746 UG/L	7.96
41	95	1046	13:04	21	1.208	A BB	84941.	48.389 UG/L	8.07
42	98	670	8:22	21	0.774	A BB	145373.	53.781 UG/L	8.97

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:43	0.97	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51		10.000			50.00		0.690	
3	0:58		10.000			50.00		0.593	
4	1:10		10.000			50.00		1.011	
5	1:14		10.000			50.00		0.577	
6	1:59		5.000			50.00		1.283	
7	2:07		5.000			50.00		2.96A	
8	2:13	0.94	10.000	0.05	99.55	50.00	0.951	0.478	1.99
9	6:19	0.98	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	2:42	0.95	5.000	0.11	149.73	50.00	3.983	1.330	2.99
11	3:01		5.000			50.00		1.246	
12	3:36	0.96	5.000	0.15	2.44	50.00	0.101	2.057	0.05
13	3:52		10.000			50.00		0.514	
14	4:25	0.97	5.000	0.19	3.10	50.00	0.089	1.428	0.06

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	4:37	0.97	10.000	0.10	9.41	50.00	0.018	0.098	0.19
16	4:58		5.000			50.00		2.570	
17	5:00		5.000			50.00		0.569	
18	5:11		5.000			50.00		0.599	
19	5:31	0.98	5.000	0.17	3.18	50.00	0.049	0.768	0.06
20	5:40		5.000			50.00		1.800	
21	10:54	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	6:34	0.98	5.000	0.21	10.19	50.00	0.094	0.450	0.20
23	6:55		5.000			50.00		0.306	
24	7:28		5.000			50.00		0.566	
25	8:10		5.000			50.00		0.494	
26	8:36	0.99	15.000	0.05	20.01	50.00	0.138	0.345	0.40
27	8:34	0.99	5.000	0.16	2.05	50.00	0.026	0.637	0.04
28	9:11		5.000			50.00		0.233	
29	9:27		5.000			50.00		0.325	
30	9:25		5.000			50.00		0.485	
31	10:03		15.000			50.00		0.223	
32	10:01		5.000			50.00		0.584	
33	10:57		5.000			50.00		1.001	
34	11:14		5.000			50.00		0.432	
35	11:28		5.000			50.00		0.744	
36	12:09		5.000			50.00		0.653	
37	12:14		5.000			50.00		1.100	
38	12:29		5.000			50.00		0.429	
39	13:42		5.000			50.00		0.483	
40	5:33	0.98	5.000	0.24	47.75	50.00	1.579	1.654	0.95
41	13:07	1.00	5.000	0.24	48.39	50.00	0.630	0.650	0.97
42	8:29	0.99	5.000	0.15	53.78	50.00	1.077	1.002	1.08

COMPUCHEM LABS

DATA: C2R02155A18 # 168

BASE M/E: 43
RIC: 5851.

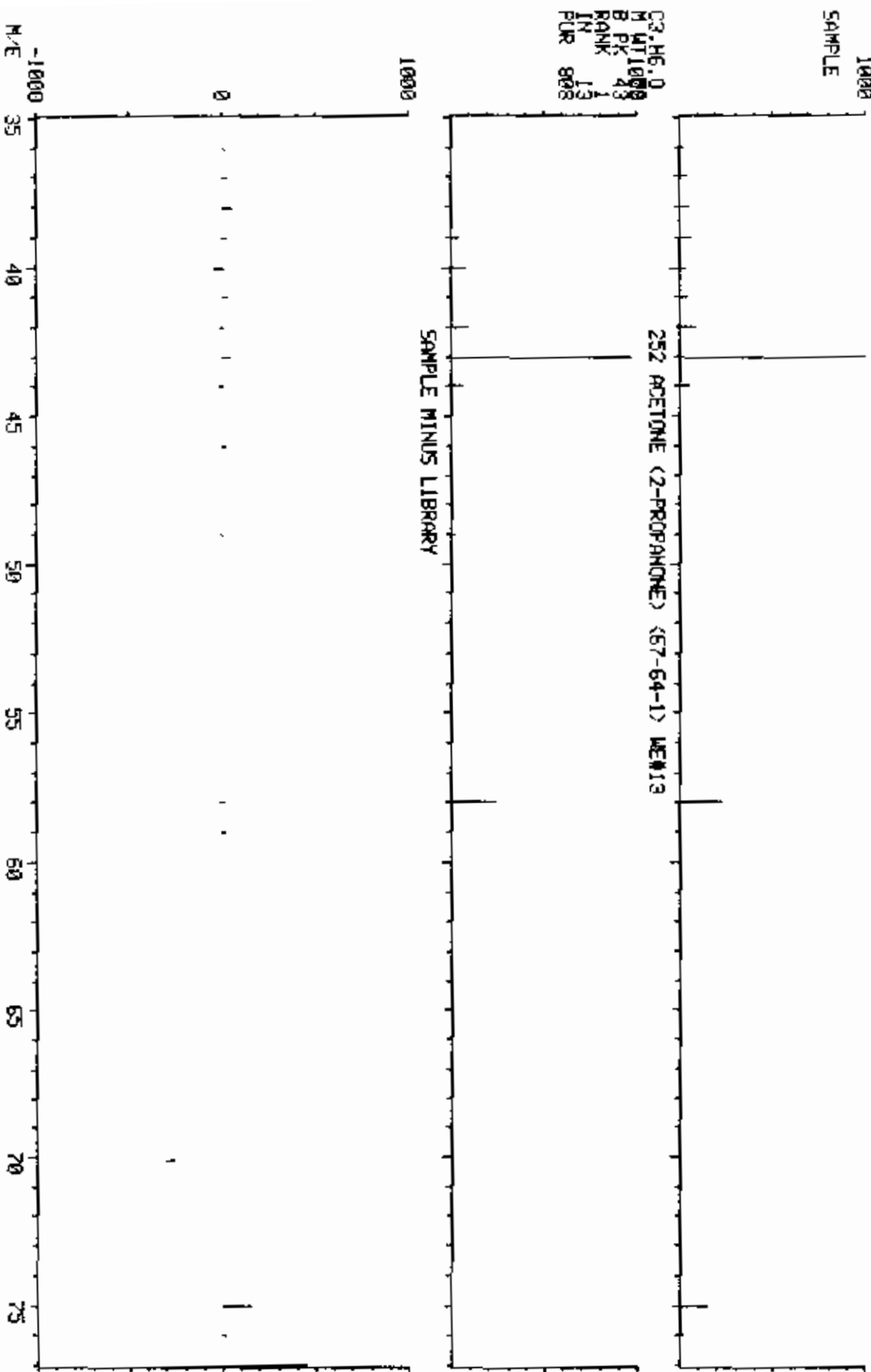
LIBRARY SEARCH
11/16/89 11:56:00 + 2:06
SAMPLE: 1800UL EPA ID#739001-22
ENHANCED (S 158 2N 0T)

Ne C₂H₄O₂ 87

CONK302155 CASE#19410 5 ON#19

1000
SAMPLE

C3.H6.O
M UT 1000
B PK 43
RANK 1
IN 13
PUR 808



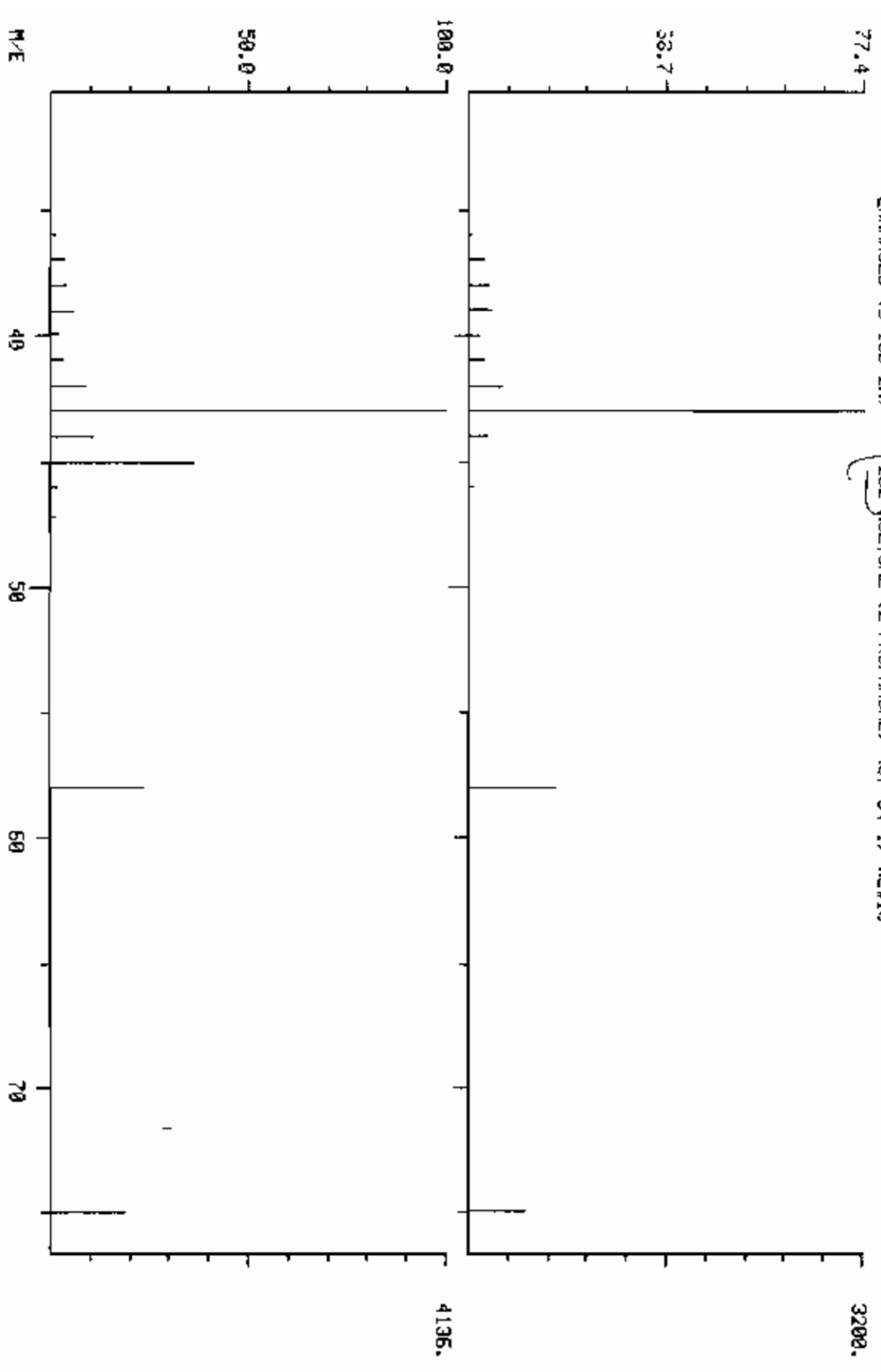
DUAL MASS SPECTRUM
11/16/89 11:56:00 +
SAMPLE: 1920UL EPA
ENHANCED (5 158 2N)

24.06
Re Cl₂ 34
W₁₀ 34
104738901-22 CC#302155 CASE#16410 5 ON#18
252 ACETONE (2-PROPANONE) (67-64-1) MEM13

COMPUCHER LABS

DATA: C2R02155A18 #159

BASE M/E: 43/ 43
RIC: 5551.7 9119.

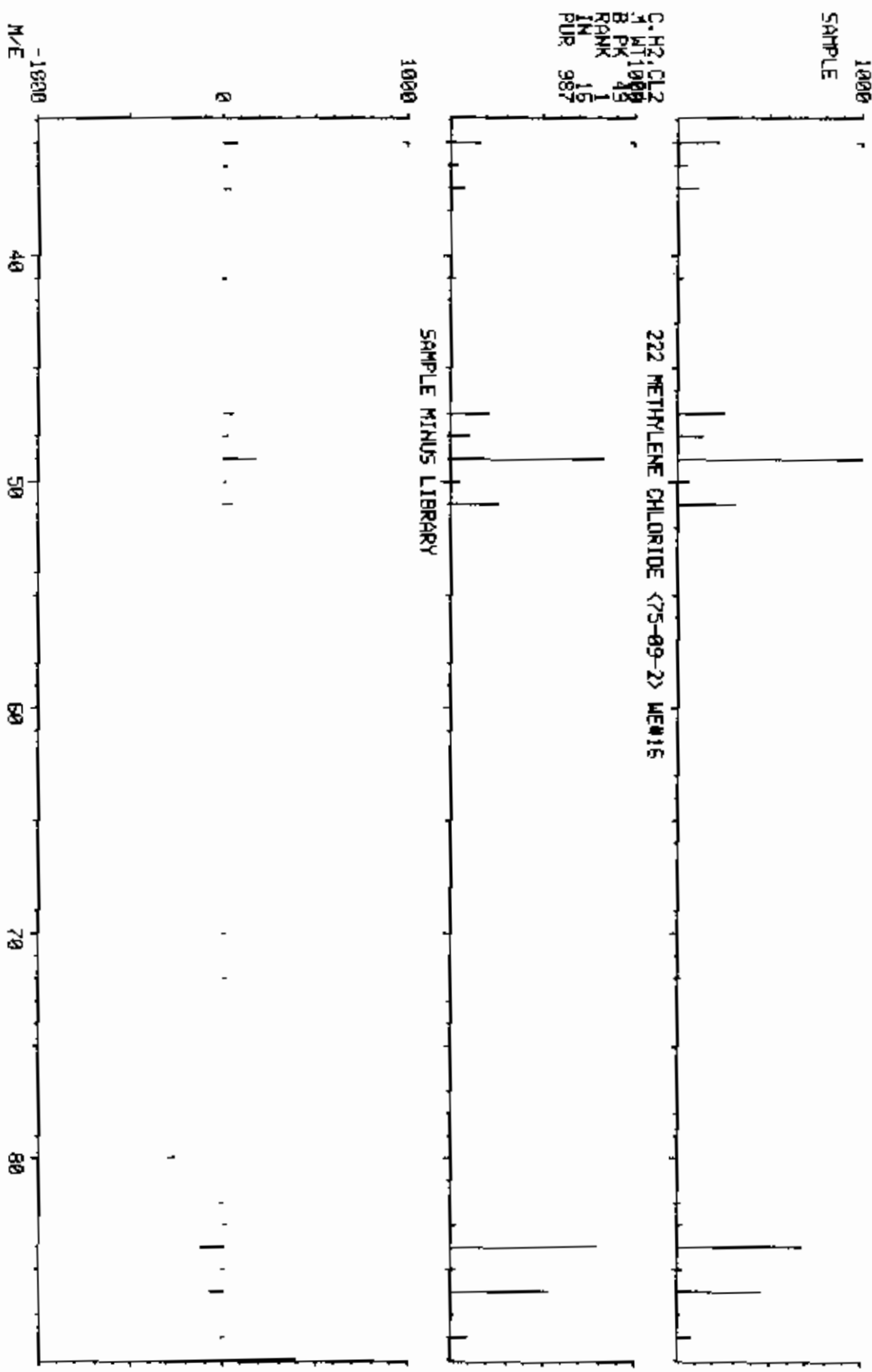


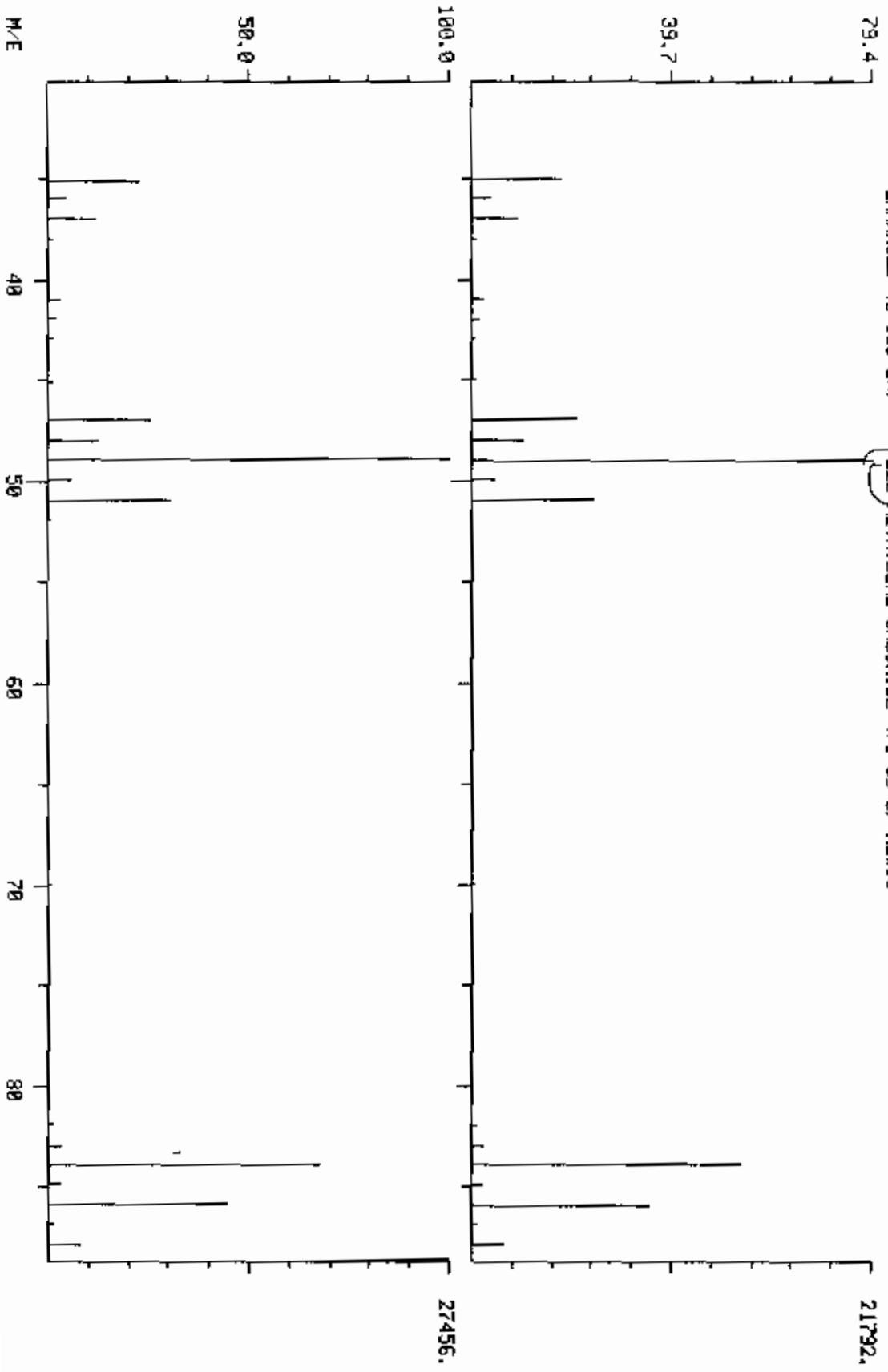
COMPUCHEM LABS

DATA: C2802155A19 # 206

BASE M/E: 49
RIC: 74879.

LIBRARY SEARCH
11/15/89 11:56:00 + 2:34 Re ⁴⁹₁₀₀
SAMPLE: 1800U. EPA ID#738801-22 CC#302155 CASE#18410 5 ON#18
ENHANCED (5 1SB 2N 0T)

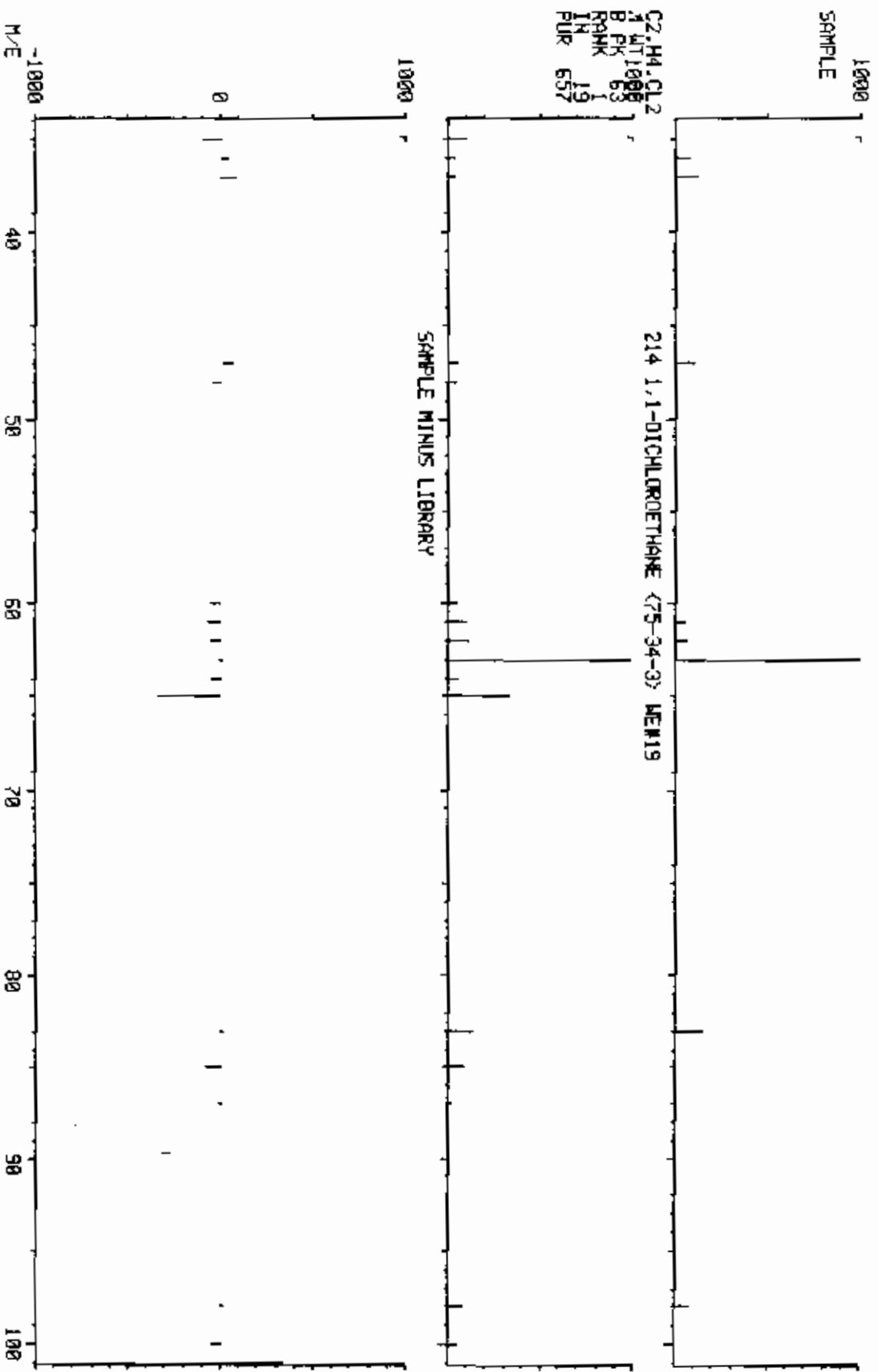




DUAL MASS SPECTRUM
 11/16/89 11:56:00 + 2:34
 SAMPLE: 1880UL EPA ID#738901-22
 ENHANCED (5 158 2N) ^{Re OK 11 20 85} CCR#302155 CASE#18418 5 ONL18
 222 METHYLENE CHLORIDE (75-09-2) MERRIS
 COMPUTER LABS
 DATA: CCR02155018 #296
 BASE M/E: 49/ 49
 RIC: 76031. / 95993.

COMPUCHEM LABS
LIBRARY SEARCH
11/15/89 11:56:00 + 3:27
SAMPLE: 189AUL EPA ID#738001-22
ENHANCED (5 158 2N 0T)

DATA: C2R02155918 # 276
BASE M/E: 63
CC#302155 CASE#18410 5 QM118
RIC:

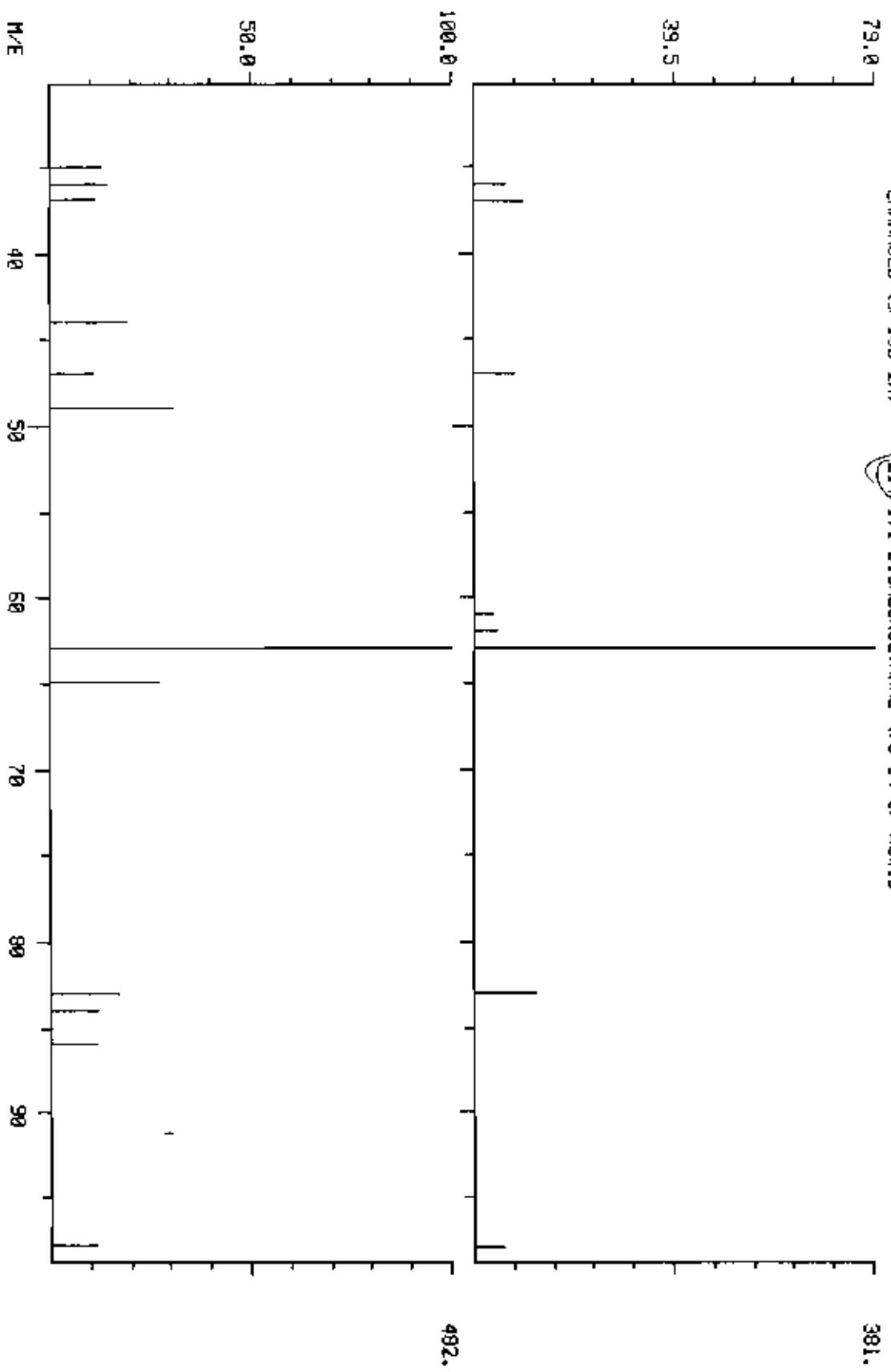


DUAL MASS SPECTRUM
11/16/89 11:56:00 + 3:27
SAMPLE: 1889UL EPA ID#798901-22 ^{915.0} ^{112.0} CCR302155 CASE#18410 5 ON#18
ENHANCED (5 158 2M) (214) 1,1-DICHLOROETHANE (75-34-3) ME#19

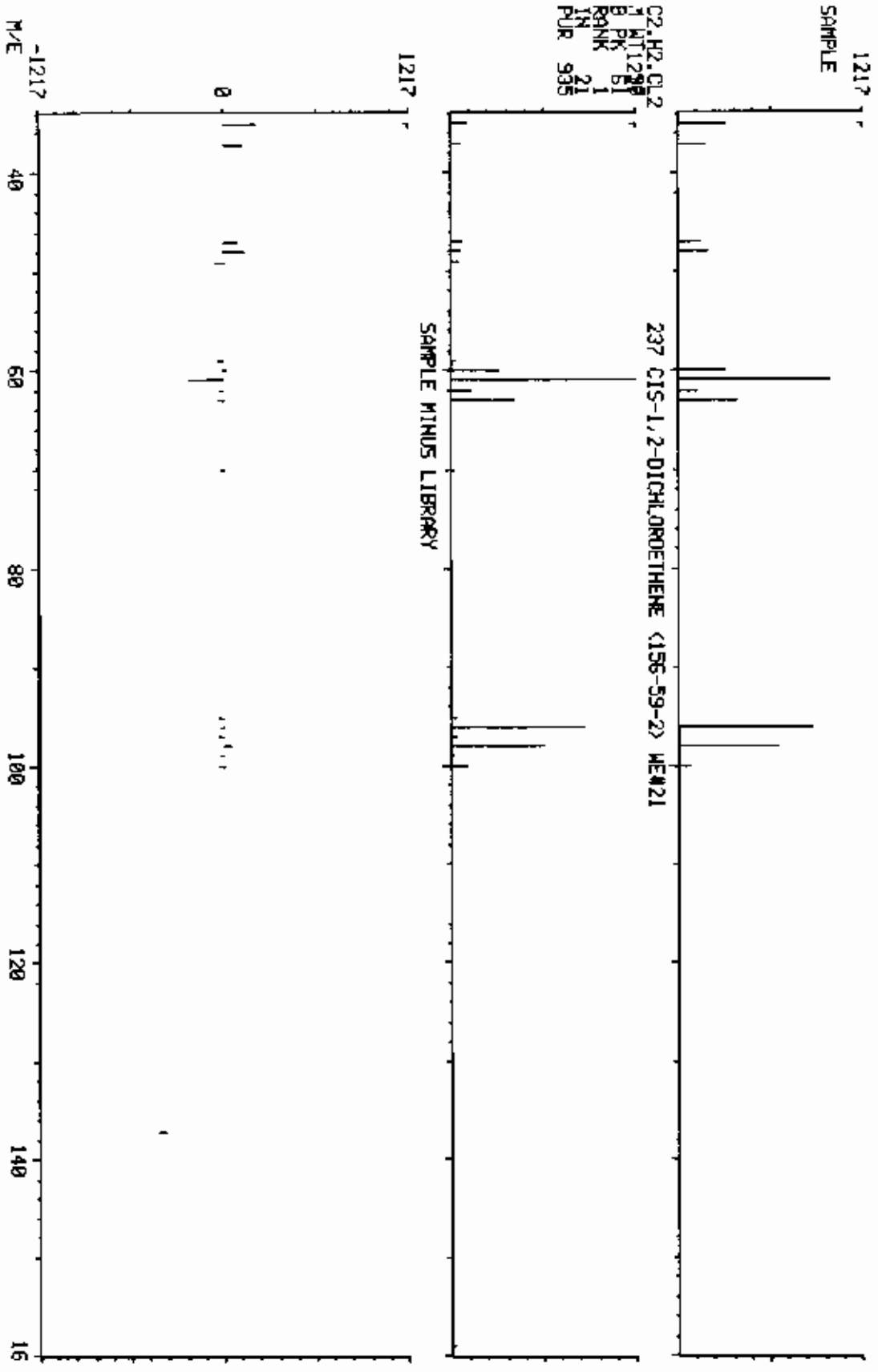
COMPUCHEM LABS

DATA: C2R02155A18 W276

BASE M/E: 63/
RIC: 619. ✓ 1331.



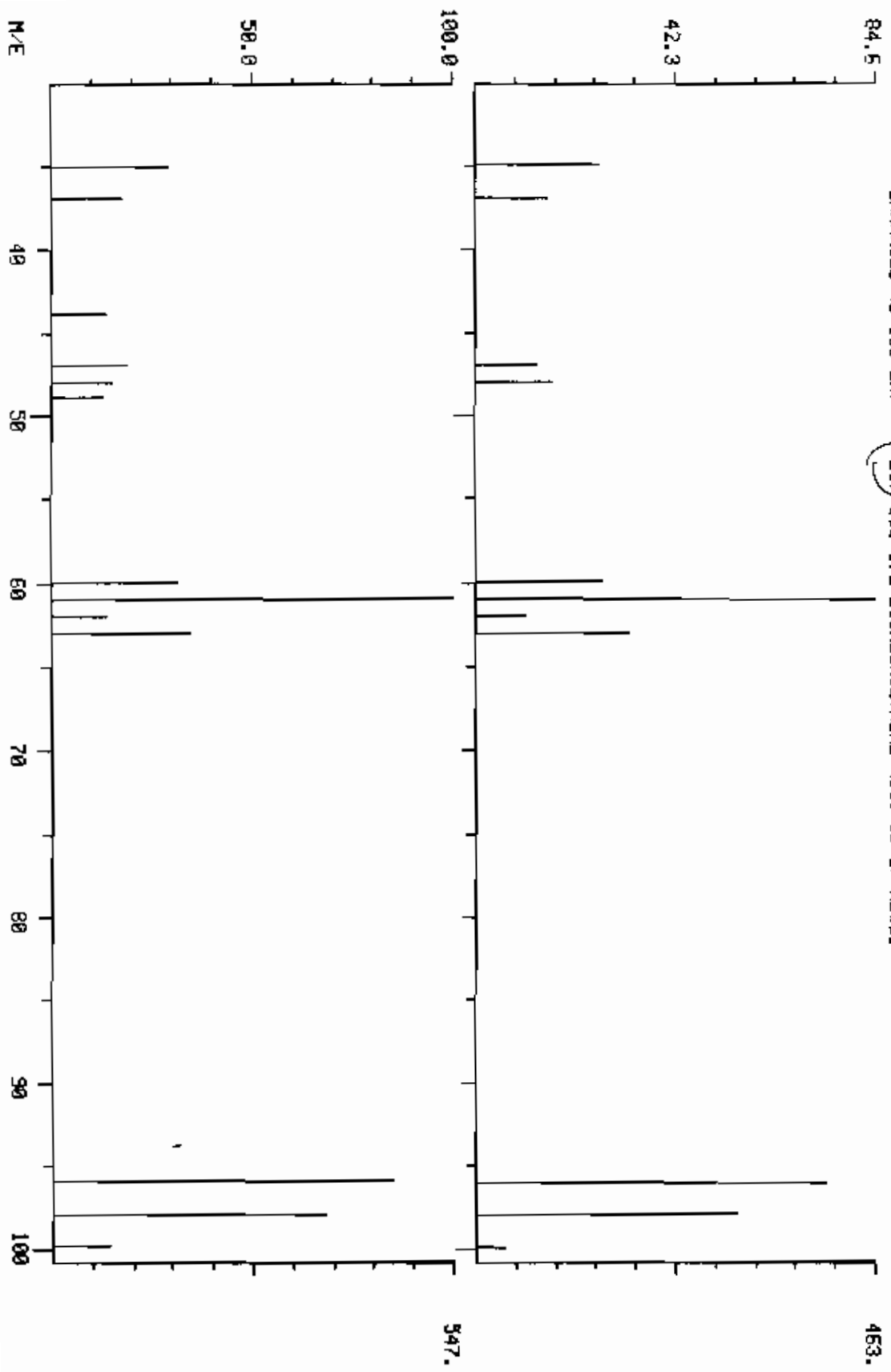
LIBRARY SEARCH
 11/16/89 11:56:00 + 4:16
 SAMPLE: 1800UL EPA ID#738901-22
 ENHANCED (S 158 ZH 07)
 COMPUTER LABS
 DATA: C2R02155A18 # 342
 BASE M/E: 61
 RIC: 1971.



DUAL MASS SPECTRUM
11/16/89 11:56:00 + 4:15
SAMPLE: 1908UL EPA 104738001-22
ENHANCED (5 158 2M) 237 C15-1,2-DICHLOROETHENE <155-59-2> ME#21

COMPUchem LABS

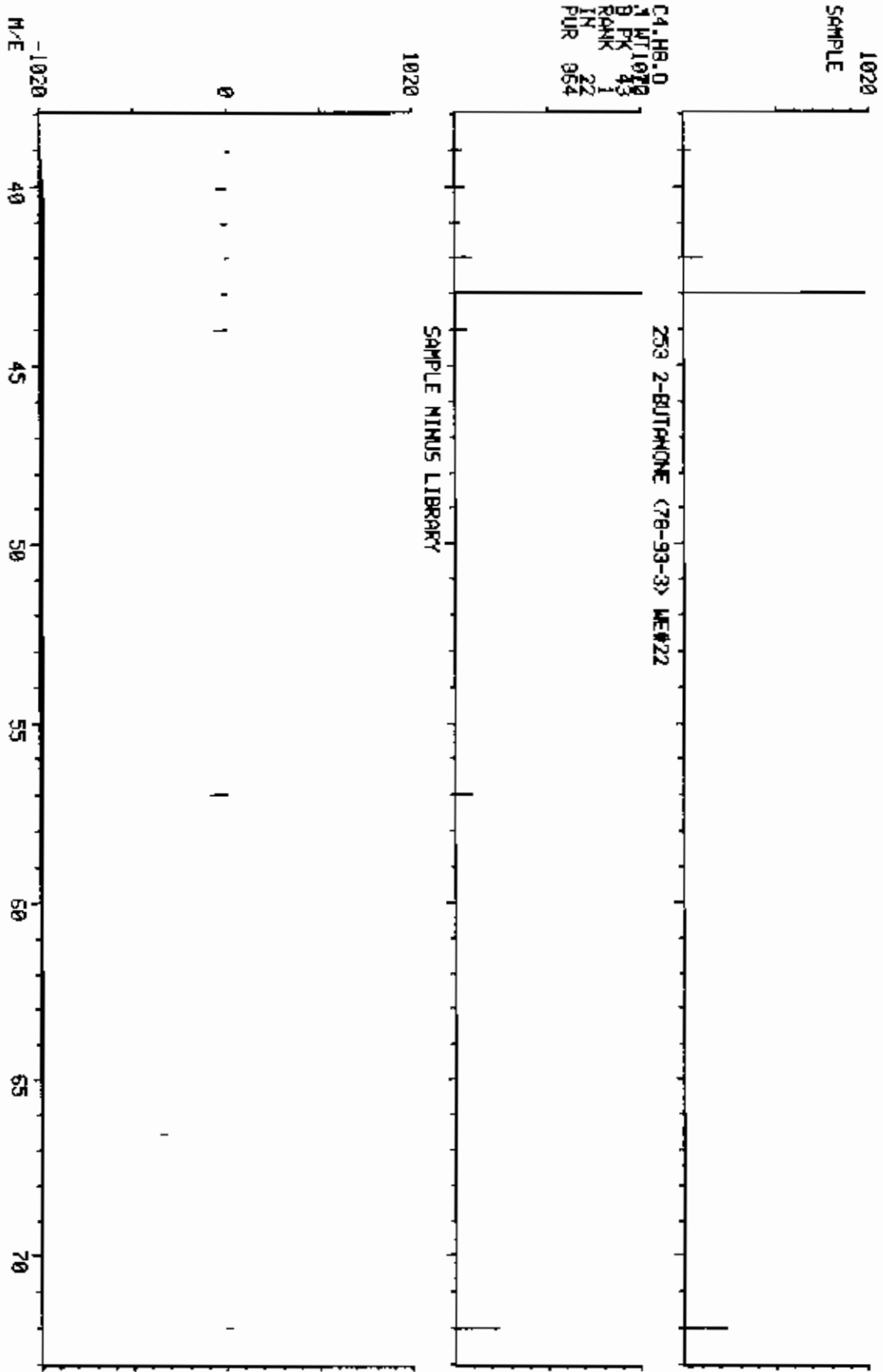
DATA: C2R02155A18 #342
BASE M/E: 61/ 61/
R1C: 1971.7 2471.



COMPUCHEM LABS
 LIBRARY SEARCH
 11/16/89 11:55:00 + 4:28
 SAMPLE: 1809UL EPA ID#738091-22
 ENHANCED (5 158 24 01)

DATA: C2R02155R19 # 357
 BASE M/E: 43
 RIC: 599.

C4.H8.O
 1 M 1070
 8 PK 43
 RANK 1
 IN 22
 PUR 964

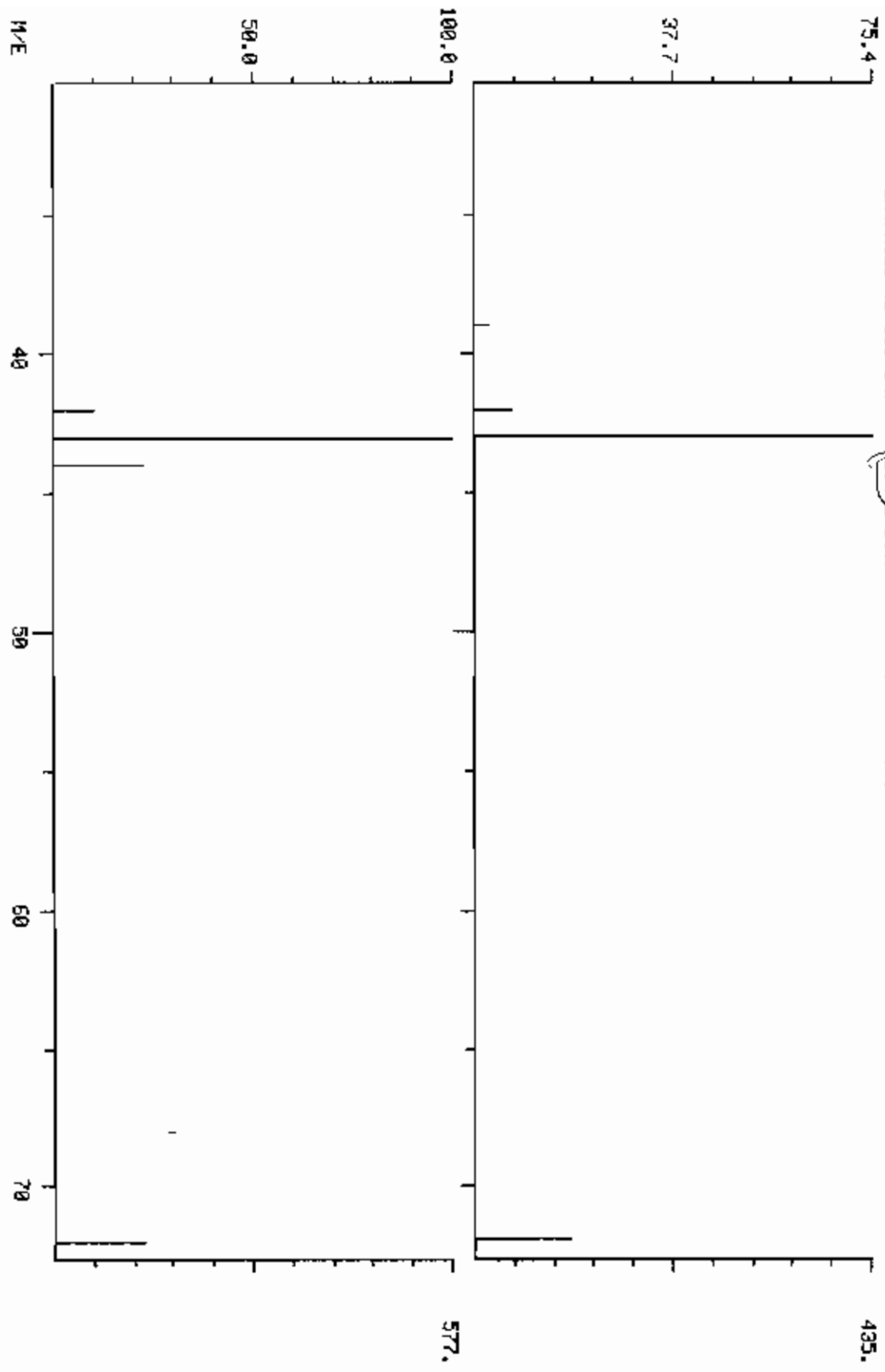


DUAL MASS SPECTRUM
11/16/89 11:56:00 + 4:28
SAMPLE: 1800UL EPA ID# 739801-22
ENHANCED (5 158 ZN)

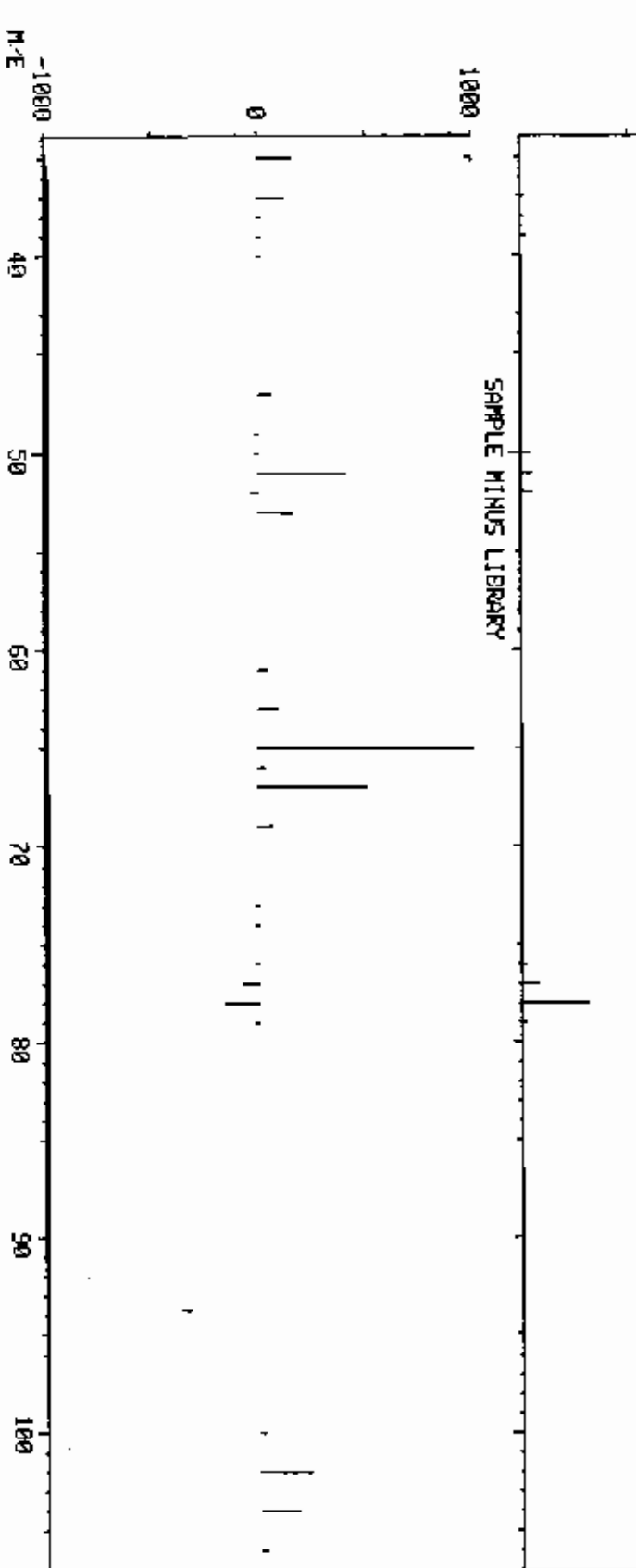
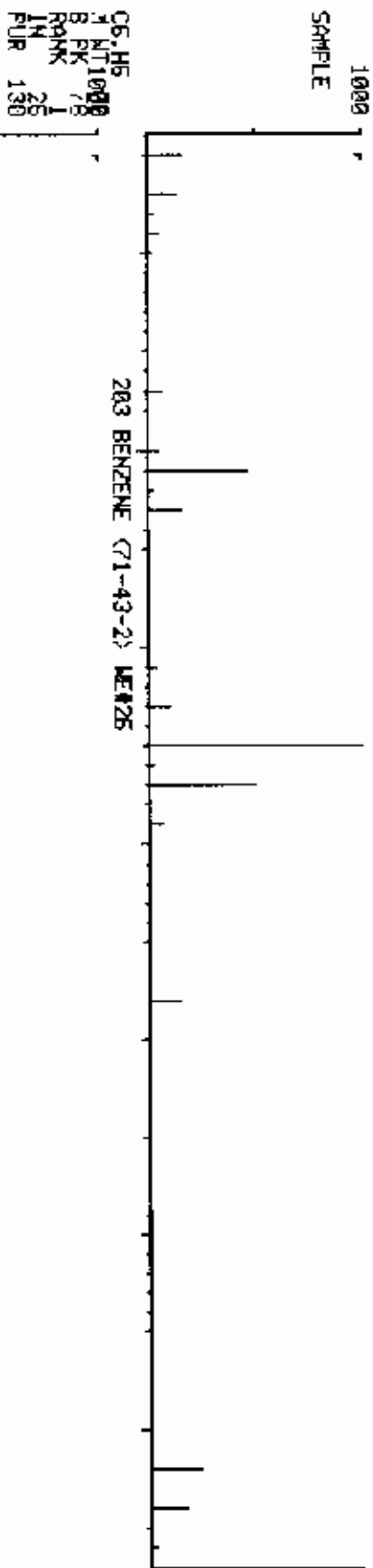
COMPUCHEM LABS

DATA: C2R02155A18 1357

BASE M/E: 43/ 43
RIC: 599.7/ 895.

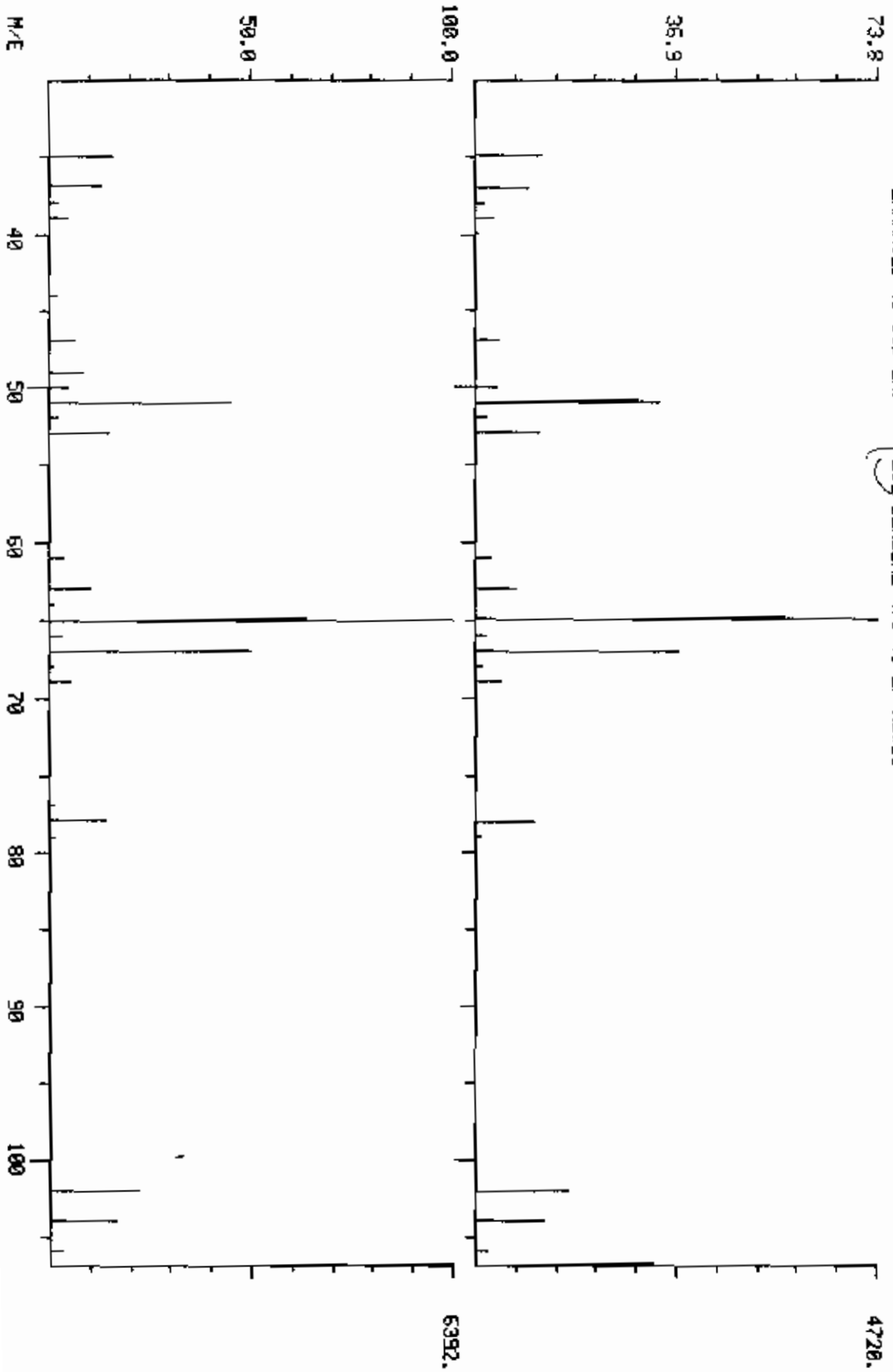


COMPUCHER LABS DATA: CCR02155A10 # 431 BASE M/E: 65
 11/16/89 11:56:00 + 5:23 DE 147100000
 SAMPLE: 1800AL EPA 10#738001-22 CCR302155 CASE#18410 5 ON#10 R10: 16255.
 ENHANCED (5 158 2# 0T)



06.H5
 1 AT 1000
 B PK 78
 RANK 1
 IN 25
 PUR 130

SAMPLE MINUS LIBRARY



DUAL MASS SPECTRUM
 11/16/89 11:56:00 + 5:23
 SAMPLE: 1800UL EPA ID#738801-22
 ENHANCED (S 158 2N) ²⁰³ BENZENE (71-43-2) ME#25

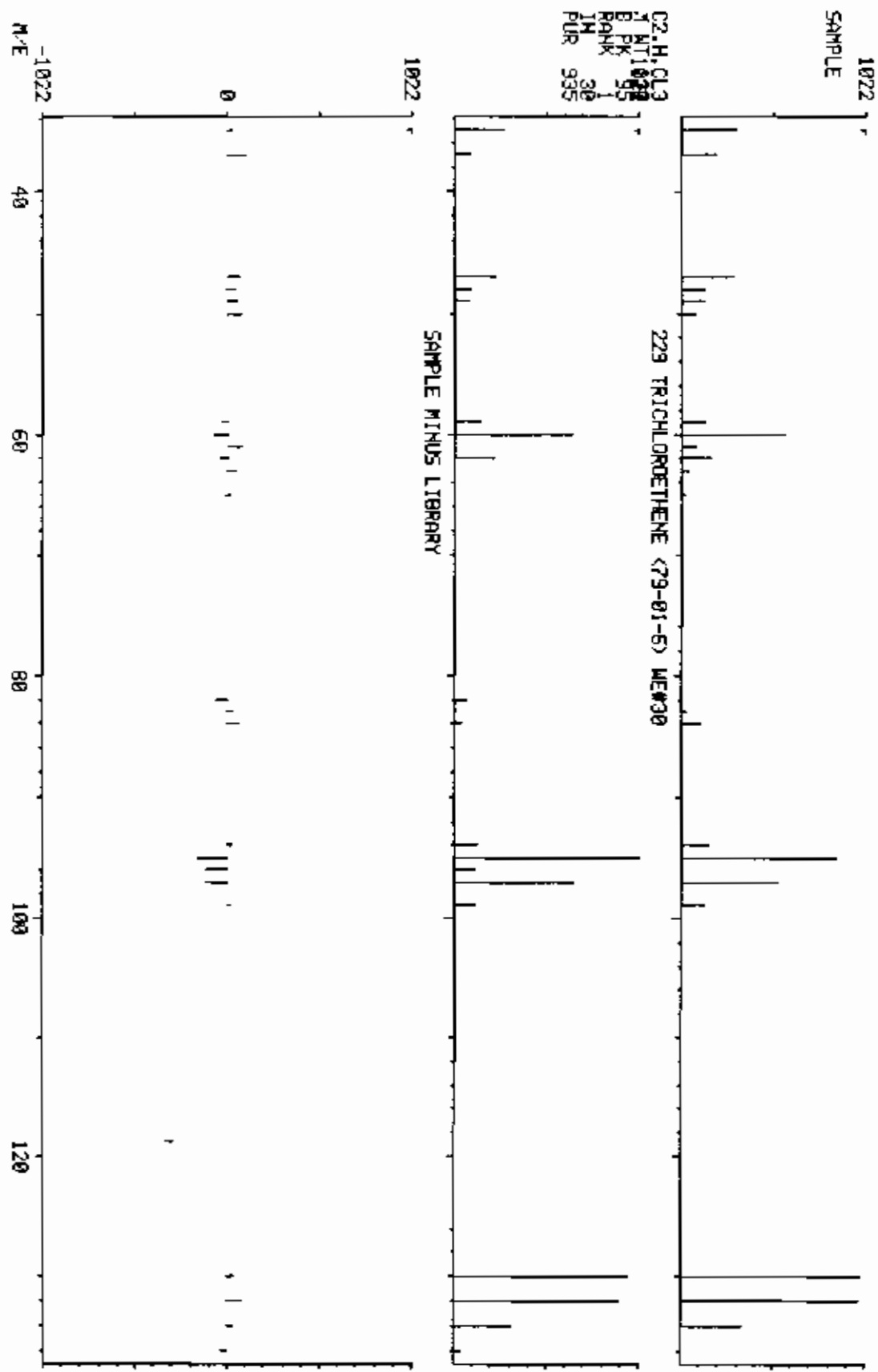
COMPUchem LABS
 DATA: C2R02155A18 #431
 BASE M/E: 55/ 65
 RIC: 16335. / 22495.

COMPUchem LABS
LIBRARY SEARCH
11/16/89 11:55:00 + 6:26
SAMPLE: 1880UL EPA ID#738001-22 CC#302155 CASE#18410 5 ON#18
ENHANCED (5 158 24 0T)

DATA: C2R02155A18 # 515

BASE M/E: 130
RIC: 7775.

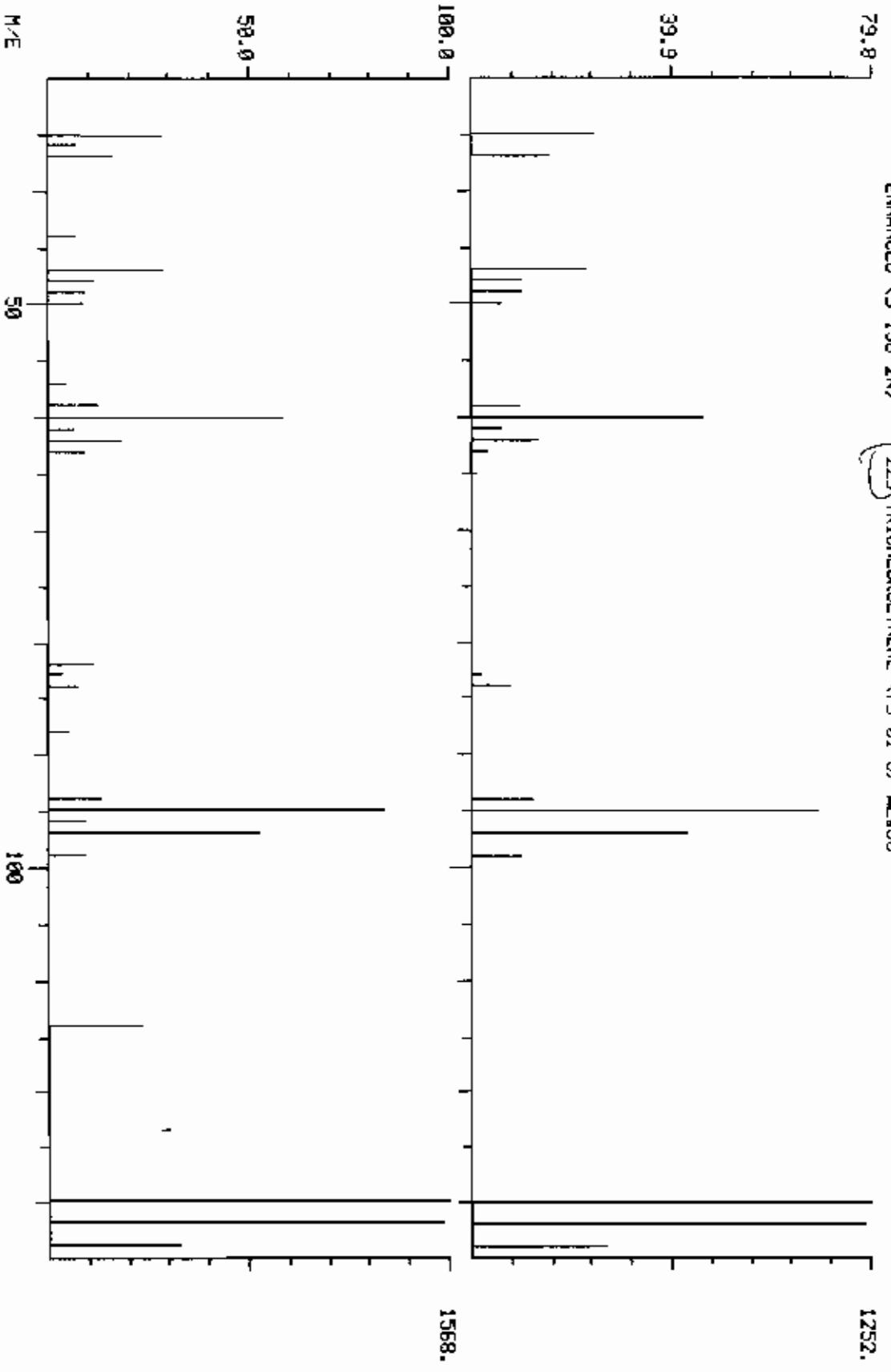
C2.H.C13
T NT 028
B PK 55
RANK 1
IN 30
PUR 935



DUAL MASS SPECTRUM
11/16/89 11:56:00 + 6:26
SAMPLE: 1899UL EPA ID#288001-22
ENHANCED (S 158 2N)

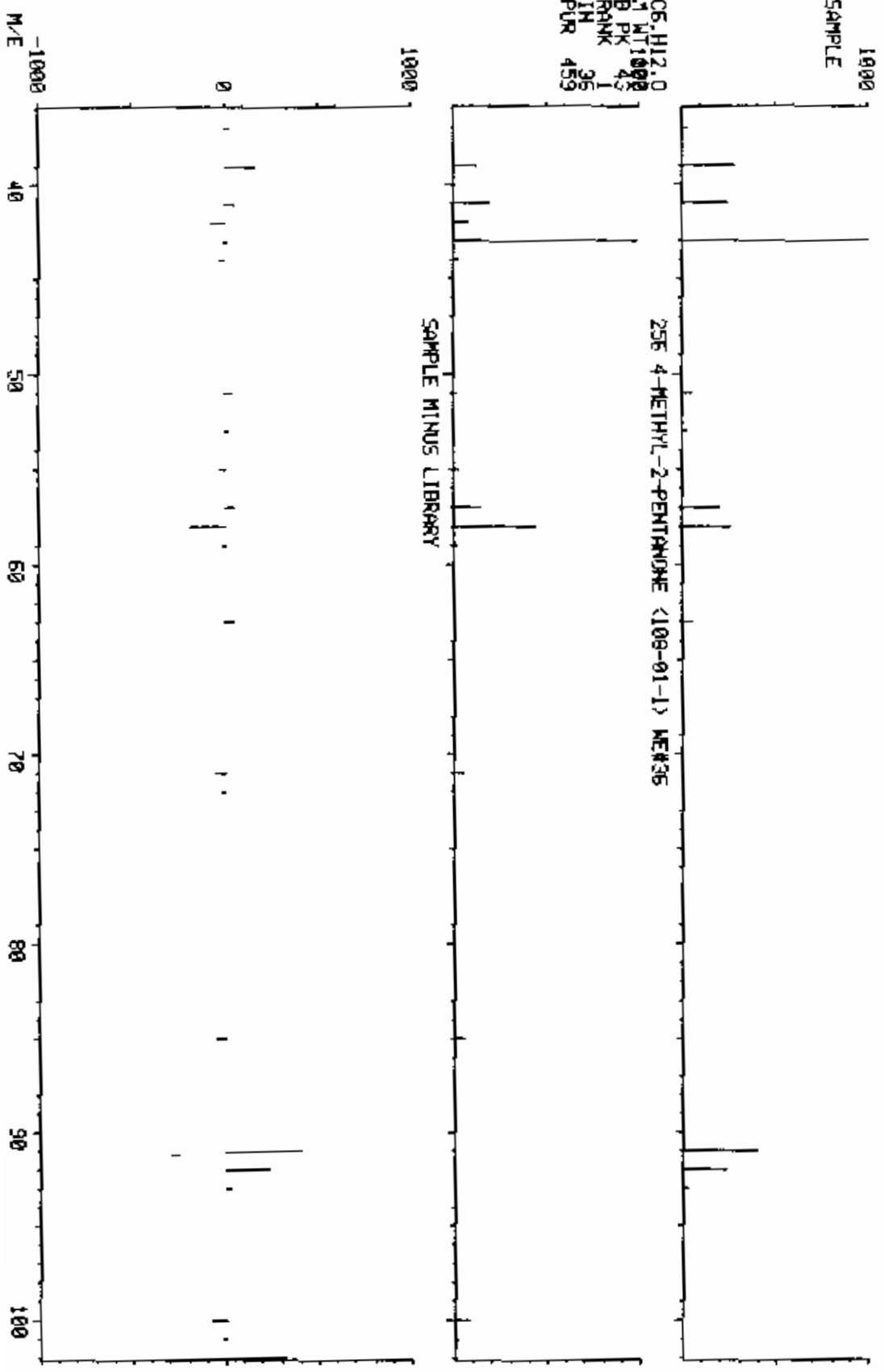
COMPUCHEM LABS
DATA: C2R92155A18 #515
GC#302155 CASE#18410 5 QM#18
229 TRICHLOROETHENE (79-01-6) MET30

BASE M/E: 138 / 138
R10: 7775. / 18559.



COMPUCHEM LABS
 DATA: C2R02155A18 # 679
 BASE M/E: 43
 RIC: 4007.
 LIBRARY SEARCH
 11/16/89 11:56:00 + 8:29
 SAMPLE: 1000UL EPA ID#738001-22
 ENHANCED (5 158 2M 9T)
 CCM302155 CASE#19410 5 ON#18

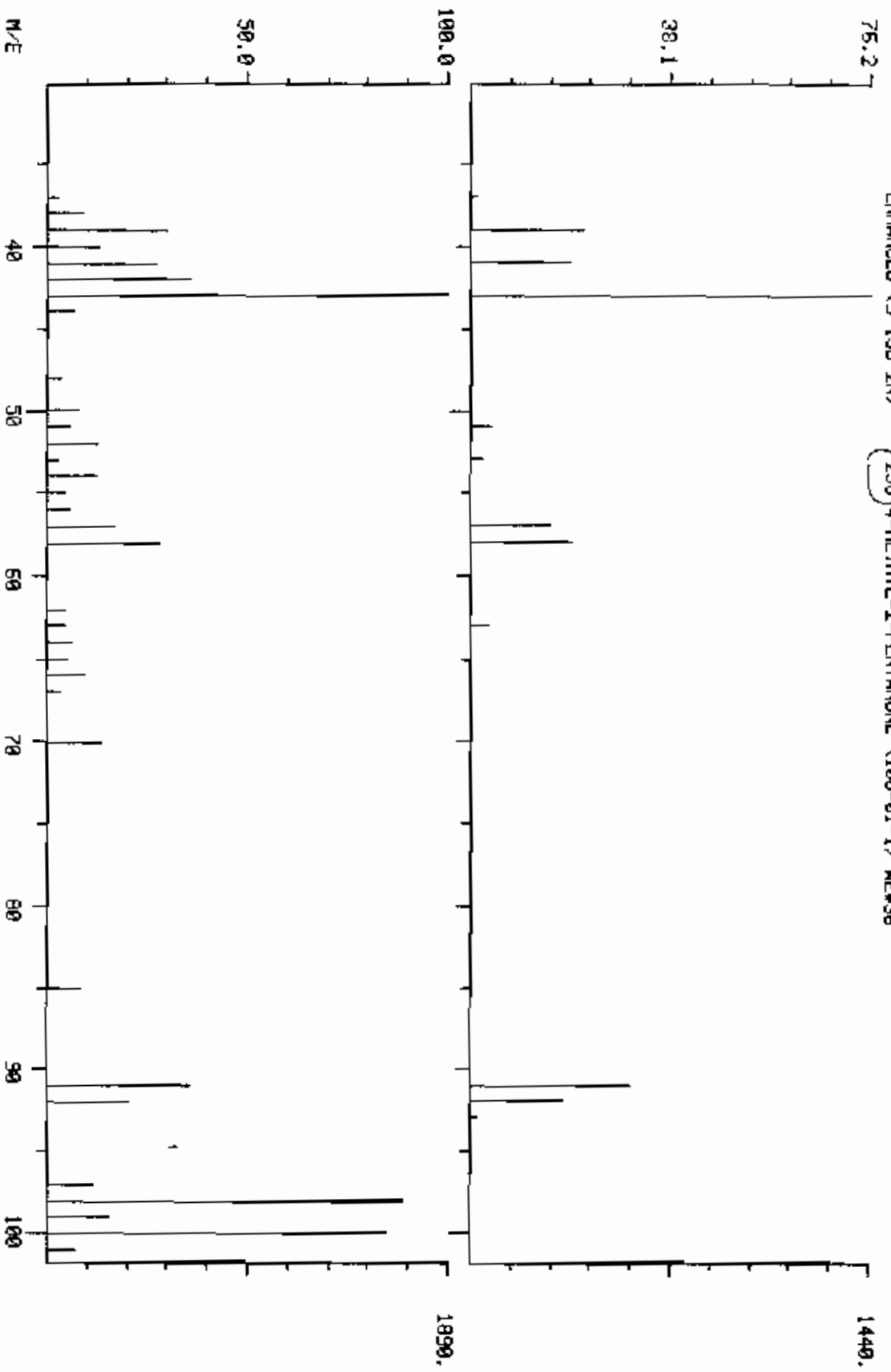
06.H12.0
 1 MT 1000
 B PK 43
 RANK 1
 IN 35
 PUR 459



DUAL MASS SPECTRUM
11/16/89 11:56:00 + 0:29
SAMPLE: 1090UL EPA ID#738901-22
ENHANCED (S 1SB 2N)

COMPUchem LABS
DATA: C2R02155A18 W679
256 4-METHYL-2-PENTANONE (100-91-1) MW#36

BASE M/E: 43/ 43
RIC: 4007, 12079.



COMPUCHEM LABS

LIBRARY SEARCH

11/16/89 11:56:00 + 8:28

AE ^{0.00} 47

DATA: C2R02155A18 # 578

BASE N/E: 43

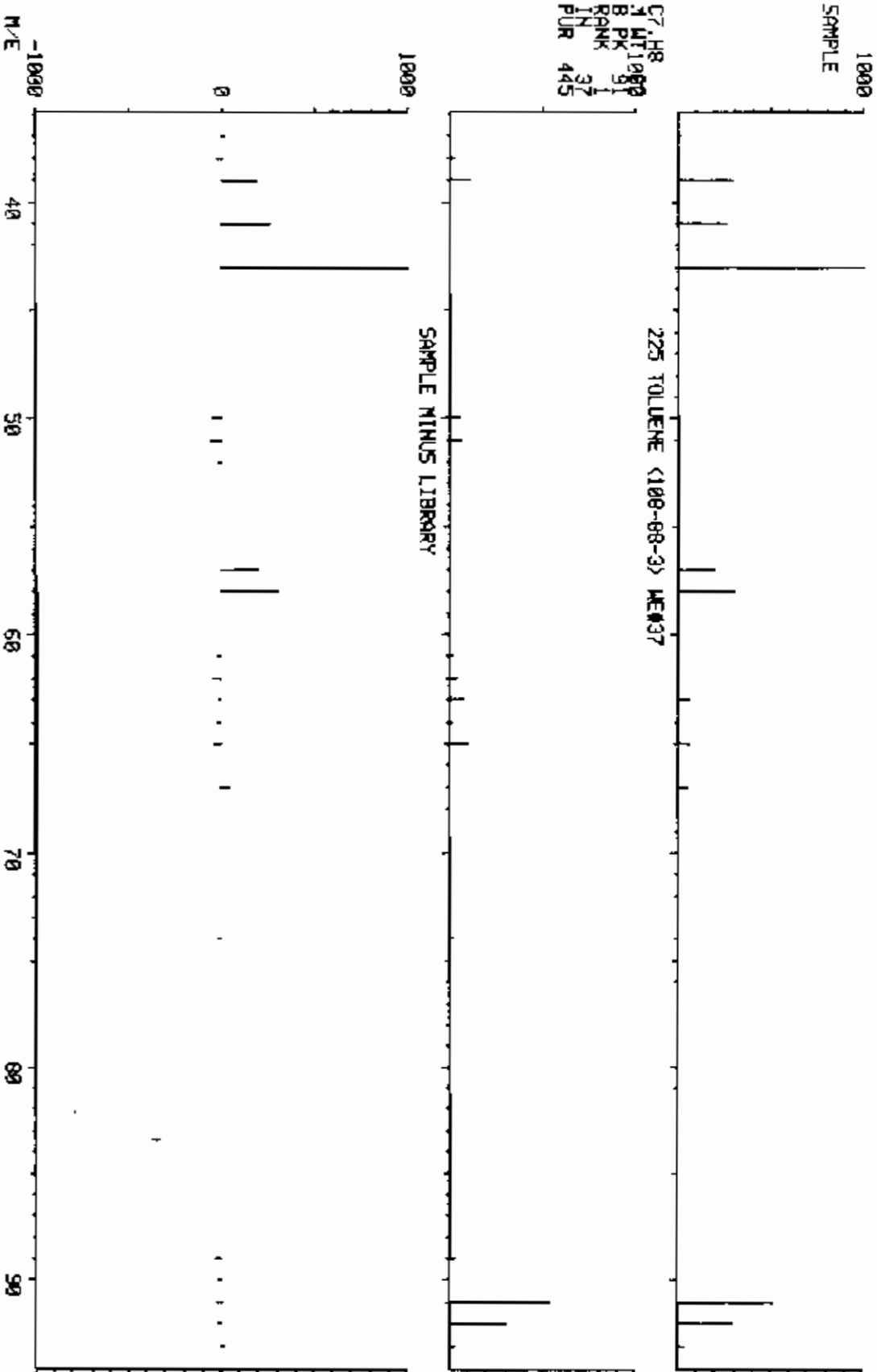
SAMPLE: 1800U, EPA ID#738001-22 C08302155 CASE#18410 5 ON#18

R/C:

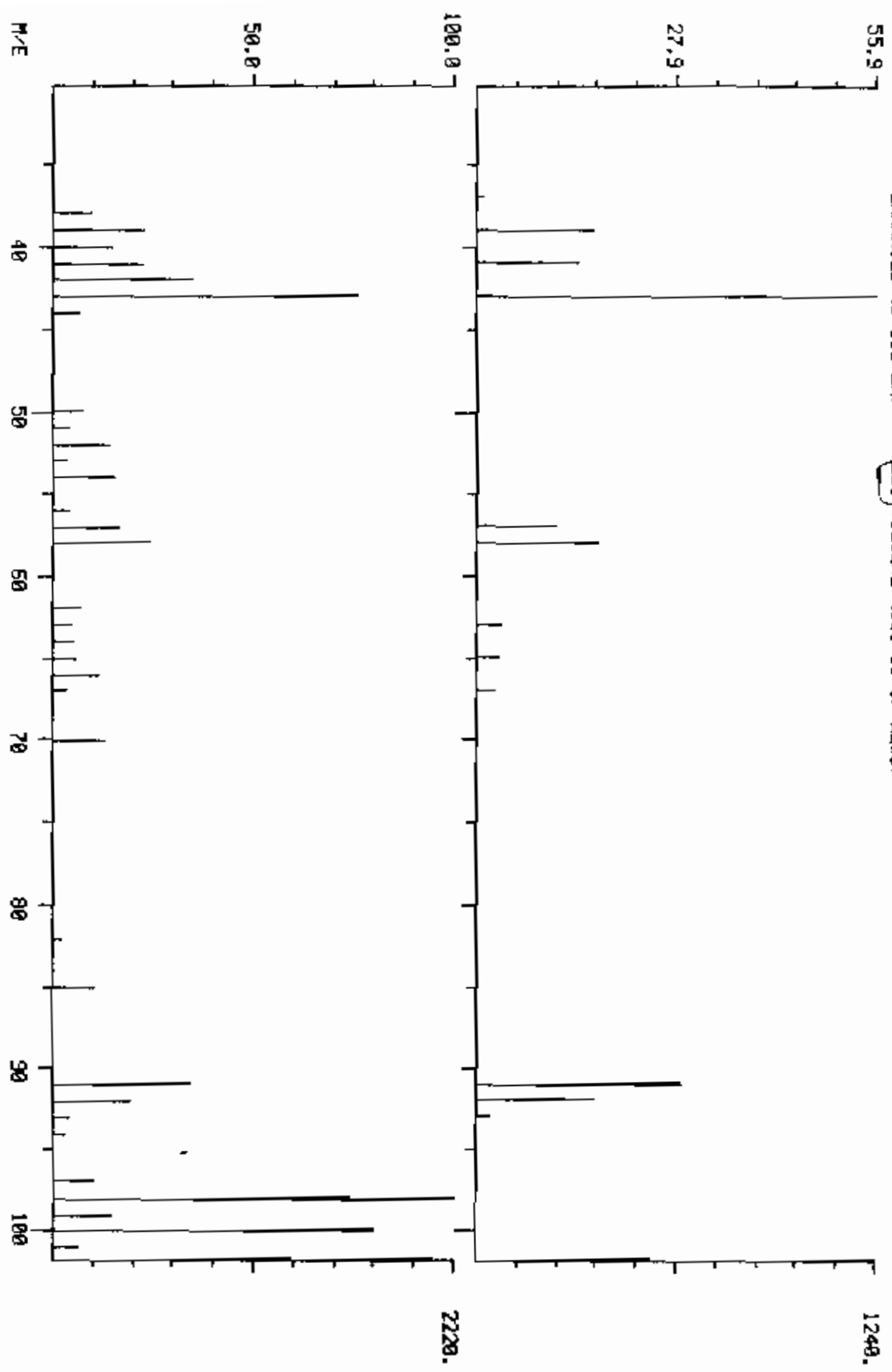
3811.

ENHANCED (5 158 2H 0T)

C7.H8
1 UT 1800
8 PK 91
RANK 37
IN
PUR 445



DUAL MASS SPECTRUM
 11/15/89 11:56:00 + 8:28
 SAMPLE: 1800IL EPA ID#738901-ZZ CC#302155 CASE#18410 5 ONU18
 ENHANCED (S 158 2N) 225 TOLUENE (100-89-3) MEN37
 COMPUTER LABS
 DATA: C2R02155A10 4678
 BASE M/E: 43/ 98
 RIC: 3811, 13551.



LIBRARY SEARCH
 11/15/89 11:56:08 + 2:05
 SAMPLE: 1800UL EPA 10#738001-22 (S *Acetylcholin*)
 ENHANCED (S 1SR 2N 8T) CAS# 302155 CASE# 118410 S 0M118

COMPUCHEN LABS

DATA: C2R02155A18 # 157

BASE M/E: 43
 RIC: 6679.

1000
 SAMPLE

C5.H19.03
 M UT 1000
 B PK 43
 RANK 1
 IN 2343
 PUR 739

ETHANOL, 2-METHOXY-, ACETATE CAS# 110-49-6

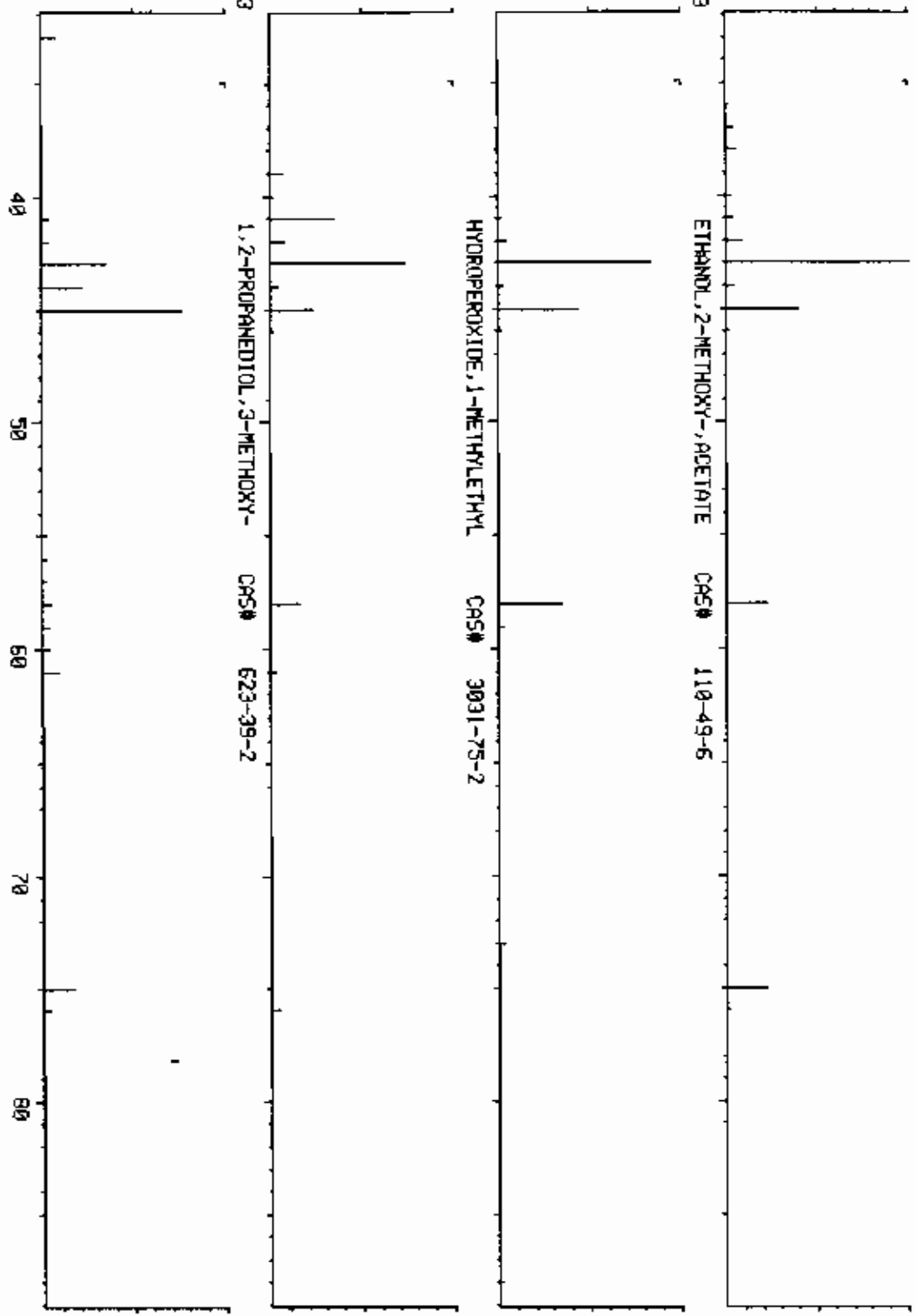
C3.H8.02
 M UT 1000
 B PK 43
 RANK 2
 IN 270
 PUR 679

HYDROPEROXIDE, 1-METHYLETHYL CAS# 3031-75-2

C4.H10.03
 M UT 1000
 B PK 43
 RANK 3
 IN 1409
 PUR 658

1,2-PROPANEDIOL, 3-METHOXY- CAS# 623-39-2

M/E



LAB INSTRUCTIONS:

RECEVOA DATE
GC/MS WORKSHEET

CASE# 18410 5
COMPUCHER#: 302155R2

OJC [] JJC [] DC [] ([]) :1)
J2C [] J4C [] D2C [] ([]) :1)

GC/MS: VOA; WATER; EPA SOW 2/88

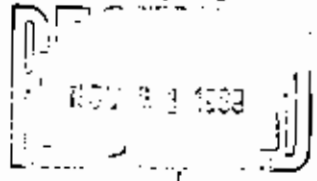
Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----394
Internal Std-----016

=====

SAMPLE ID#: 738001-22

GC/MS ANALYSIS

Amount Purged: [] 5mls or [] Dilution 1800 ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BFB9116C18 Disk (1032)
Blank Filename CC89116CR Disk ()
Standard Filename CS89116C18 Disk ()
Sample Filename C2R02155A18 Disk ()



ANALYST(B): Injection 1577/KC Work-up 1577

GC/MS REVIEW

CONDITION CODE
DA

Entry Codes OK, JS, SM, SL, SH, JA, DA
Non-Entry Codes IM, IL, IH, SW, CT, CS, PC, NR
IF, LA, OI, CO, RN, DU, SI, SF
UP, BB, OT, VC, FO, SM

Extraneous Peak Search Results:
of Peaks Found: 2

Disposition: [] Complete
[] Reinject Heat
[] Dilute ([])

Quality Assurance Notice(s):
Notices Required 0

COMMENTS:

GC/MS Review OK Date 11/20/89 Auditor SWJ Date 11/21/89

REPORT INTEGRATION
Final Reportable Package(s): C2R-A18 Total # of Injections: 3
1 C2R-A18

QA COMMENTS:

=====

INITIALS _____ DATE ____/____/____

FINAL REVIEW: INITIALS _____ DATE ____/____/____

AC1004 (03/89)

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT	REPORTED	DETECT.
					REPRRT	AMOUNT	LIMIT
					VALUE	(UG/L)	(UG/L)
23#	128 I	BROMOCHLOROMETHANE (IS)	367	41000	50.0		
221	50	CHLOROMETHANE				BDL	28
231	62	VINYL CHLORIDE				BDL	28
220	94	BROMOMETHANE				BDL	28
209	64	CHLOROETHANE				BDL	28
216	96	1,1-DICHLOROETHENE				BDL	14
254	76	CARBON DISULFIDE				BDL	14
252	43	ACETONE (2-PROPANONE)			99.5	280 D	28
248	114 I	1,4-DIFLUOROBENZENE (IS)	495	150000	50.0		
222	84	METHYLENE CHLORIDE			150.0	420 D	14
226	96	TRANS-1,2-DICHLOROETHENE				BDL	14
214	63	1,1-DICHLOROETHANE			2.4	7J D	14
257	43	VINYL ACETATE				BDL	28
237	96	CIS-1,2-DICHLOROETHENE			3.1	9J D	14
253	72	2-BUTANONE			9.4	26J D	28
211	83	CHLOROFORM				BDL	14
227	97	1,1,1-TRICHLOROETHANE				BDL	14
206	117	CARBON TETRACHLORIDE				BDL	14
203	78	BENZENE			3.2	9J D	14
215	62	1,2-DICHLOROETHANE				BDL	14
270	117 I	D5-CHLOROBENZENE (IS)	866	135000	50.0		
229	130	TRICHLOROETHENE			10.2	28 D	14
217	63	1,2-DICHLOROPROPANE				BDL	14
212	83	BROMOCHLOROMETHANE				BDL	14
218	75	CIS-1,3-DICHLOROPROPENE				BDL	14
256	43	4-METHYL-2-PENTANONE			20.0	56 D	28
225	92	TOLUENE			2.0	6J D	14
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	14
228	97	1,1,2-TRICHLOROETHANE				BDL	14
224	164	TETRACHLOROETHENE				BDL	14
255	43	2-HEXANONE				BDL	28
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	14
207	112	CHLOROBENZENE				BDL	14
219	106	ETHYLBENZENE				BDL	14
330	106	M, P-XYLENE				BDL	14
239	106	O-XYLENE				BDL	14
251	104	STYRENE				BDL	14
205	173	BROMOFORM				BDL	14
223	63	1,1,2,2-TETRACHLOROETHANE				BDL	14
258	65 S	D4-1,2-DICHLOROETHANE WE#57			47.7	95. %	
247	95 S	BROMOFLUOROBENZENE			48.4	97. %	
233	98 S	D8-TOLUENE WE#59			53.8	108. %	
289	106	XYLENES (TOTAL)				BDL	14

CORRECTED/REVIEWED BY

Ortiz
(GC/MS DATA REVIEWER)

DATE

11-20-95

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)			3.1	9J	14
CHECKSUMS:							
		3979.	1728	326000.	602.8		1150.

CORRECTED/REVIEWED BY *[Signature]*
 (GC/MS DATA REVIEWER)

DATE 11-20-79

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	47.7	50.0	95.	76-114	X	
41	247	BROMOFLUOROBENZENE	48.4	50.0	97.	86-115	X	
42	233	D8-TOLUENE WE#59	53.8	50.0	108.	88-110	X	

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

CORRECTION FACTOR CALCULATION:

$$\begin{aligned}
 & \frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = \frac{5.000 \text{ ML}}{1.800 \text{ (ML)}} \\
 & \qquad \qquad \qquad = \qquad \qquad \qquad 2.78 \qquad \qquad \qquad
 \end{aligned}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

CORRECTED/REVIEWED BY OK
(QC/MS DATA REVIEWER)

DATE 11-20-89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-23

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 102182
 Sample wt/vol: 2.4 (g/mL) ML Lab File ID: CR002182B18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column: (pack/cap) CAP Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	21	U
74-83-9	Bromomethane	21	U
75-01-4	Vinyl Chloride	21	U
75-00-3	Chloroethane	48	
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	21	U
75-15-0	Carbon Disulfide	17	
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	21	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
108-05-4	Vinyl Acetate	21	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	100	
10061-02-6	Trans-1,3-Dichloropropene	10	U
110-75-8	2-Chloroethylethylether	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	21	U
591-78-6	2-Hexanone	21	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	12	
108-90-7	Chlorobenzene	23	
100-41-4	Ethylbenzene	150	
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	380	

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001-23

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SOG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302182
 Sample wt/vol: 2.4 (g/mL) ML Lab File ID: CR002182B18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 6 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

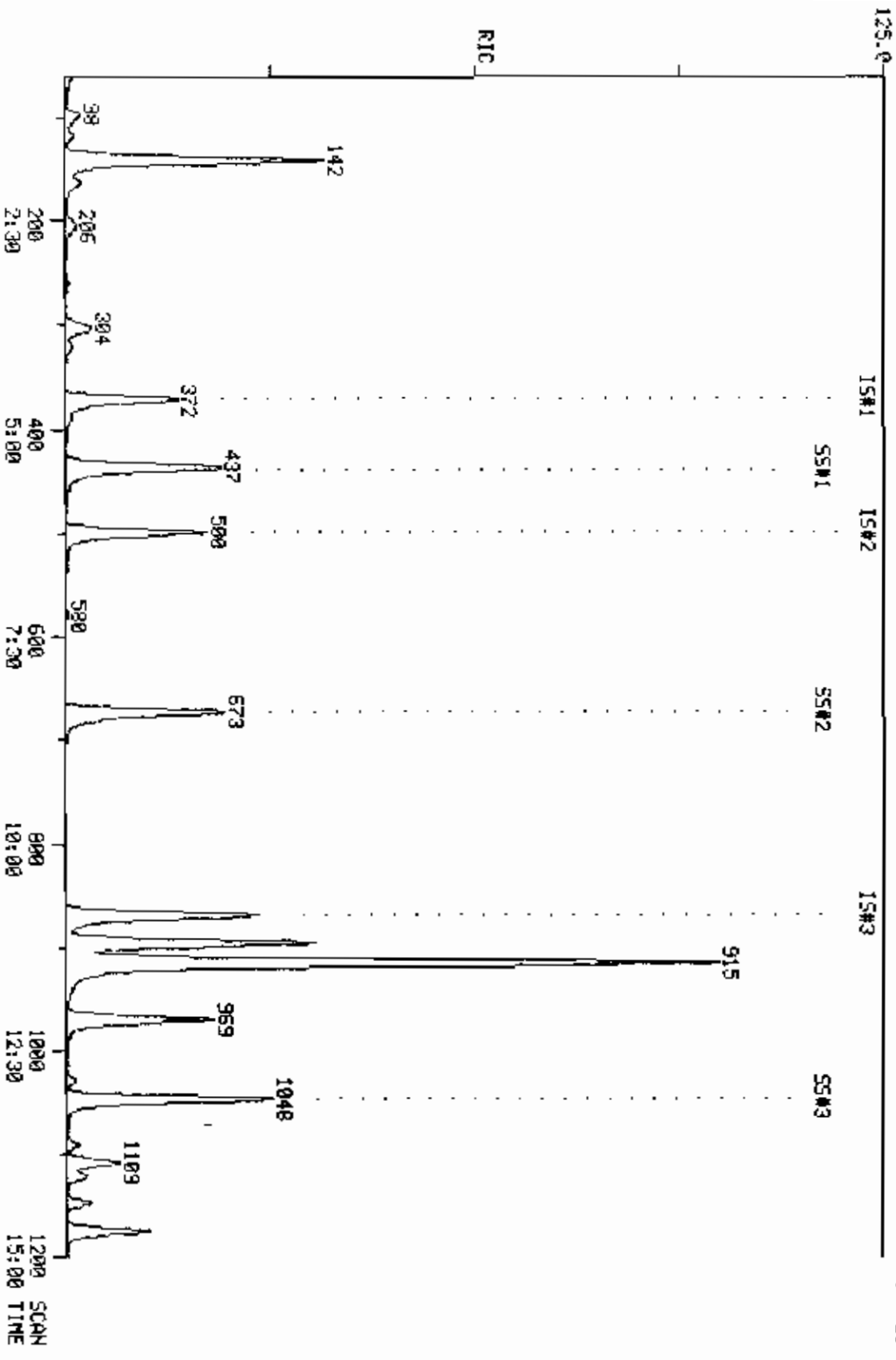
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 60-29-7	ETHANE, 1,1'-OXYBIS-	1.77	230	J
2. 108-20-1	PROPANE, 2,2'-OXYBIS-	3.80	31	J
3. 620-14-4	BENZENE, 1-ETHYL-3-METHYL-	13.85	27	J
4.	TRIMETHYLBENZENE ISOMER	14.04	8.3	J
5. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	14.35	12	J
6.	TRIMETHYLBENZENE ISOMER	14.70	42	J

FORM I VOA-TIC

1/87 Rev.

COMPUchem LABS
COMPUchem DATA: CR002192016 SCANS 61 TO 1200

RIC
11/16/99 23:40:00
SAMPLE: 2400UL CC# 302182 IOW 730001-23 RE CASE# 184110 ON #18
COND.S: 1



QUANTITATION REPORT FILE: CR002182B18
 DATA: CR002182B18.T1
 11/16/89 23:40:00
 SAMPLE: 2400UL CC# 302182 ID# 73B001-23 RE CASE# 18410 ON #18
 CONDS.:
 SUBMITTED BY: 18 ANALYST: 1009

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

NO NAME
 1 *234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
 2 221 CHLOROMETHANE <74-87-3> WE#2
 3 231 VINYL CHLORIDE <75-01-4> WE#3
 4 220 BROMOMETHANE <78-83-9> WE#4
 5 209 CHLOROETHANE <75-00-3> WE#5
 6 216 1,1-DICHLOROETHENE <78-35-4> WE#8
 7 254 CARBON DISULFIDE <75-15-0> WE#9
 8 252 ACETONE (2-PROPANONE) <67-64-1> WE#13
 9 *248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
 10 222 METHYLENE CHLORIDE <75-09-2> WE#16
 11 226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
 12 214 1,1-DICHLOROETHANE <75-34-3> WE#19
 13 257 VINYL ACETATE <108-05-4> WE#20
 14 237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
 15 253 2-BUTANONE <78-93-3> WE#22
 16 211 CHLOROFORM <67-66-2> WE#23
 17 227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
 18 206 CARBON TETRACHLORIDE <56-23-5> WE#25
 19 203 BENZENE <71-43-2> WE#26
 20 215 1,2-DICHLOROETHANE <107-06-2> WE#27
 21 *270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
 22 229 TRICHLOROETHENE <79-01-6> WE#30
 23 217 1,2-DICHLOROPROPANE <78-87-5> WE#31
 24 212 BROMODICHLOROMETHANE <75-27-4> WE#33
 25 218 CIS-1,3-DICHLOROPROPENE <10061-1-3> WE#35
 26 256 4-METHYL-2-PENTANONE <108-01-1> WE#36
 27 225 TOLUENE <108-88-3> WE#37
 28 250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
 29 228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
 30 224 TETRACHLOROETHENE <127-18-4> WE#41
 31 255 2-HEXANONE <591-78-6> WE#42
 32 205 DIBROMOCHLOROMETHANE <124-48-1> WE#43
 33 207 CHLOROBENZENE <108-90-7> WE#45
 34 219 ETHYLBENZENE <100-41-4> WE#47
 35 330 M,P-XYLENE <133-02-7> WE#48
 36 239 O-XYLENE <133-02-7> WE#49
 37 251 STYRENE <100-42-5> WE#50
 38 205 BROMOFORM <75-25-2> WE#51
 39 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 40 *258 D4-1,2-DICHLOROETHANE WE#57
 41 *247 BROMOFLUOROBENZENE <460-00-4> WE#58
 42 *233 O8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	ZTOT
1	128	371	4:38	1	1.000	4 88	43073.	50.000 UG/L	7.60
2	50	NOT FOUND							

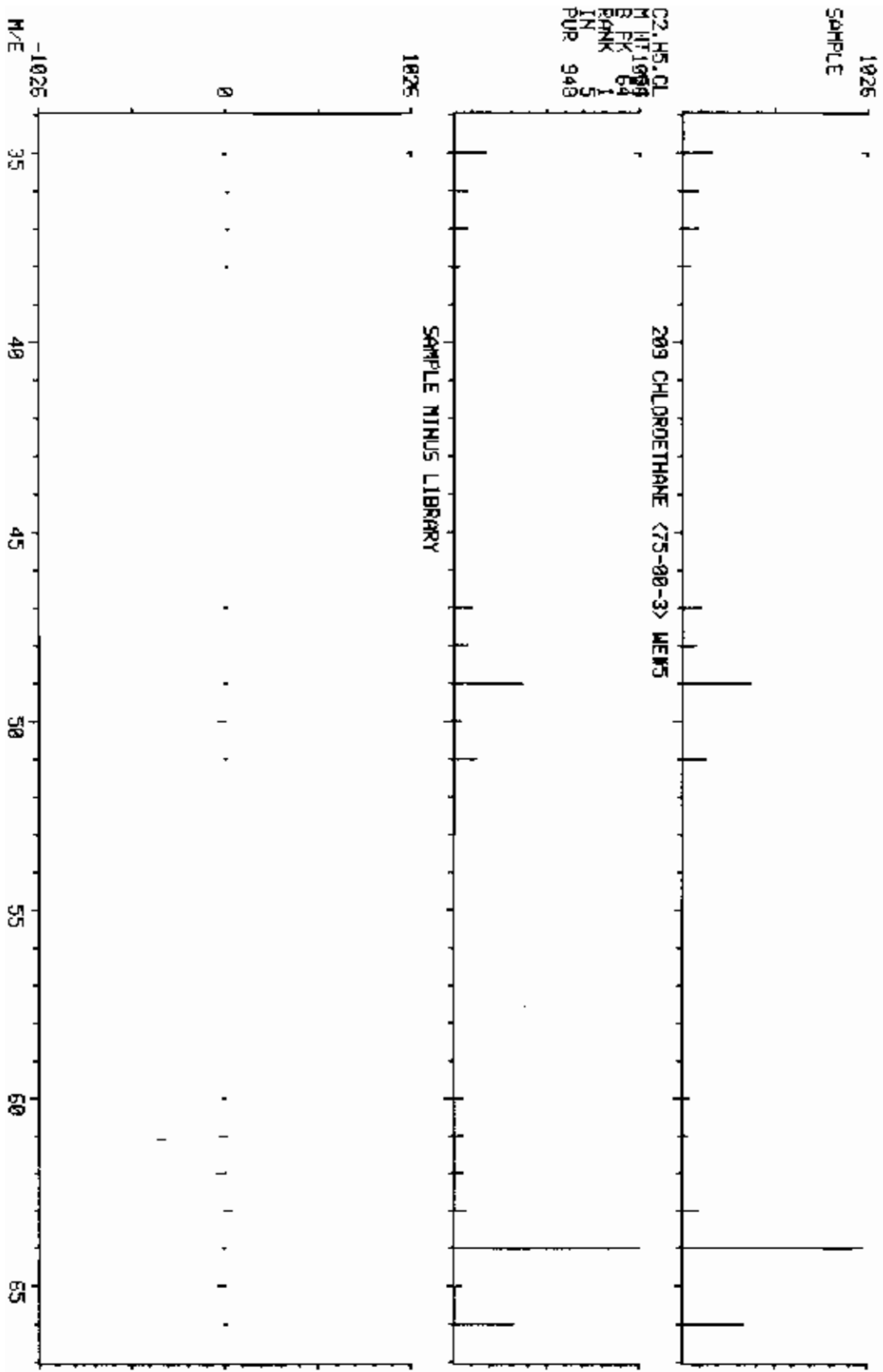
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	99	1:14	1	0.267	A BV	11432.	23.151 UG/L	3.52% <i>Yes</i>
6	96	NOT FOUND							
7	76	165	2:04	1	0.445	A BB	22081.	8.218 UG/L	1.25% <i>Yes</i>
8	43	NOT FOUND							
9	114	500	6:15	9	1.000	A BB	160462.	50.000 UG/L	7.60
10	84	211	2:38	1	0.569	A BB	1850.	1.640 UG/L	0.25% <i>Yes</i>
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	303	3:47	9	0.606	A BB	23365.	14.635 UG/L	2.22% <i>AND</i>
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	436	5:27	9	0.872	A BB	114007.	48.819 UG/L	7.42% <i>Yes</i>
20	62	NOT FOUND							
21	117	868	10:51	21	1.000	A BB	146724.	50.000 UG/L	7.60
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	681	8:31	21	0.785	A BB	9843.	5.567 UG/L	0.85% <i>Yes</i>
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	872	10:54	21	1.005	A BB	29993.	10.875 UG/L	1.65% <i>Yes</i>
34	106	896	11:12	21	1.032	A BV	87995.	74.527 UG/L	11.33% <i>Yes</i>
35	106	914	11:25	21	1.053	A VB	298346.	145.216 UG/L	22.07% <i>Yes</i>
36	106	969	12:07	21	1.116	A BB	67046.	05.686 UG/L	5.42% <i>Yes</i>
37	104	NOT FOUND							
08	173	NOT FOUND							
39	83	NOT FOUND							
40	65	439	5:29	1	1.183	A BB	67680.	44.521 UG/L	6.77
41	95	1048	13:06	21	1.207	A BB	90580.	46.164 UG/L	7.02
42	98	673	8:25	21	0.775	A BB	145406.	48.851 UG/L	7.43

*eat
with*

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:40	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51		10.000			50.00		0.638	
3	0:57		10.000			50.00		0.600	
4	1:08		10.000			50.00		0.957	
5	1:10	1.01	10.000	0.03	23.15	50.00	0.265	0.573	0.46
6	1:57		5.000			50.00		1.251	
7	2:04	0.99	5.000	0.09	8.22	50.00	0.513	3.119	0.16
8	2:09		10.000			50.00		0.348	
9	6:16	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	2:38	1.00	5.000	0.11	1.64	50.00	0.043	1.309	0.03
11	2:57		5.000			50.00		1.203	
12	3:32		5.000			50.00		1.928	
13	3:48	1.00	10.000	0.06	14.63	50.00	0.146	0.497	0.29
14	4:21		5.000			50.00		1.487	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	4:31		10.000			50.00		0.096	
16	4:54		5.000			50.00		2.453	
17	4:56		5.000			50.00		0.548	
18	5:08		5.000			50.00		0.567	
19	5:28	1.00	5.000	0.17	48.82	50.00	0.710	0.728	0.98
20	5:37		5.000			50.00		1.733	
21	10:52	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	6:30		5.000			50.00		0.437	
23	6:51		5.000			50.00		0.295	
24	7:25		5.000			50.00		0.535	
25	8:08		5.000			50.00		0.471	
26	8:33		15.000			50.00		0.332	
27	8:32	1.00	5.000	0.16	5.57	50.00	0.067	0.602	0.11
28	9:09		5.000			50.00		0.217	
29	9:24		5.000			50.00		0.302	
30	9:22		5.000			50.00		0.502	
31	10:01		15.000			50.00		0.192	
32	9:58		5.000			50.00		0.556	
33	10:55	1.00	5.000	0.20	10.87	50.00	0.204	0.940	0.22
34	11:13	1.00	5.000	0.21	74.53	50.00	0.600	0.402	1.49
35	11:27	1.00	5.000	0.21	145.22	50.00	2.033	0.700	2.90
36	12:07	1.00	5.000	0.22	35.69	50.00	0.457	0.640	0.71
37	12:12		5.000			50.00		1.073	
38	12:28		5.000			50.00		0.411	
39	13:41		5.000			50.00		0.439	
40	5:29	1.00	5.000	0.24	44.52	50.00	1.571	1.765	0.89
41	13:07	1.00	5.000	0.24	46.16	50.00	0.617	0.669	0.92
42	8:26	1.00	5.000	0.16	48.85	50.00	0.991	1.014	0.98

LIBRARY SEARCH
 11/15/89 23:40:00 + 1:14
 SAMPLE: 2400EL CCM 302182 ID# 739001-23 RE CASE# 18418 ON #18
 ENHANCED (S 158 2N 0T)
 COMPUTHER LABS
 U.S. (75) DATA: CR002182B18 # 99
 BASE M/E: 54
 RIC: 2851.

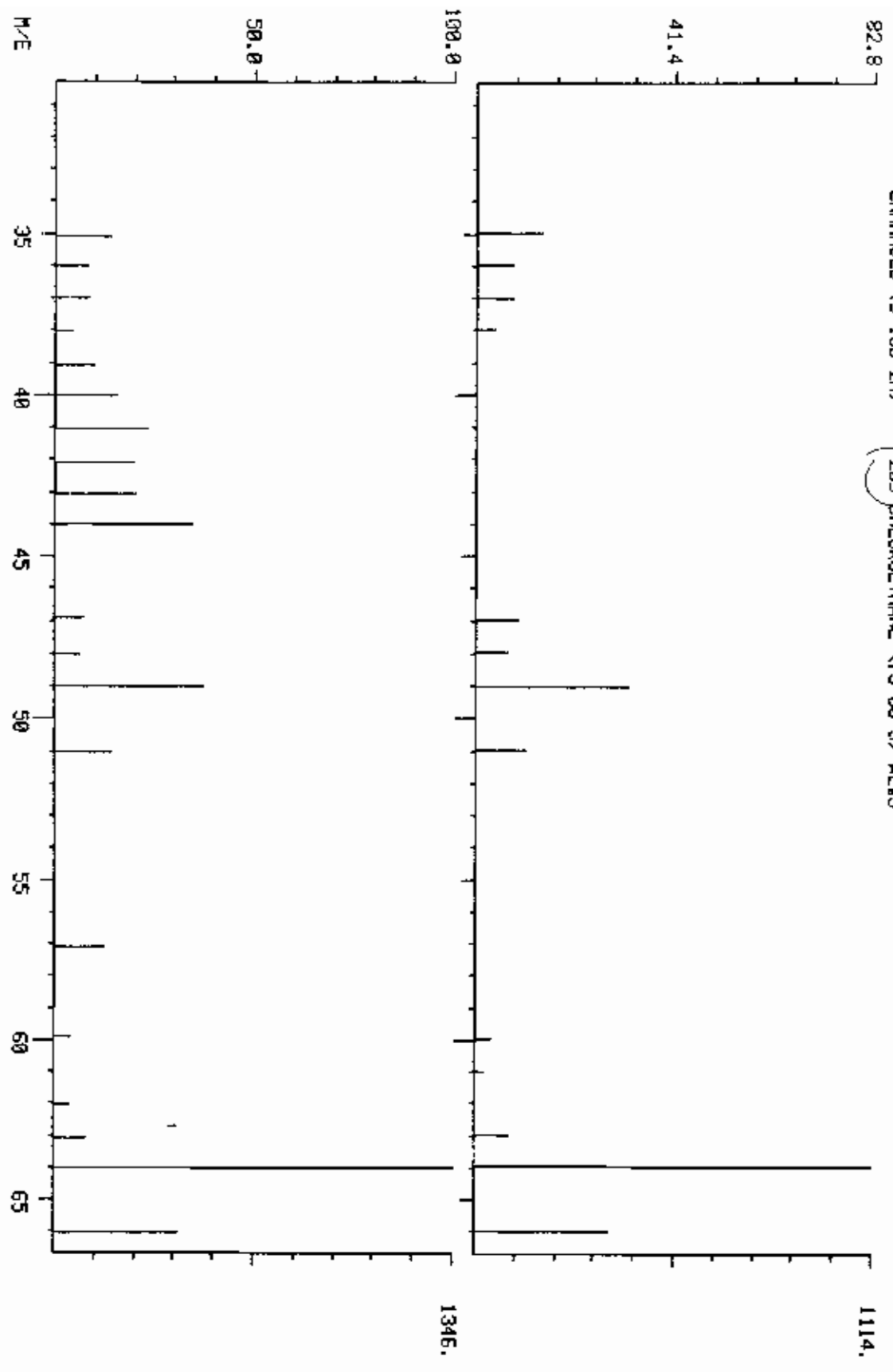


C2-H5-CL
 M NT 1989
 E FK 64
 BANK 1
 LN 5
 PUR 948

DUAL MASS SPECTRUM
11/16/89 23:49:00 + 1:14
SAMPLE: 2400UL CCM 302192-10M 738801-23 REC CRSEA 18410 ON #18
ENHANCED (S 159 ZN)

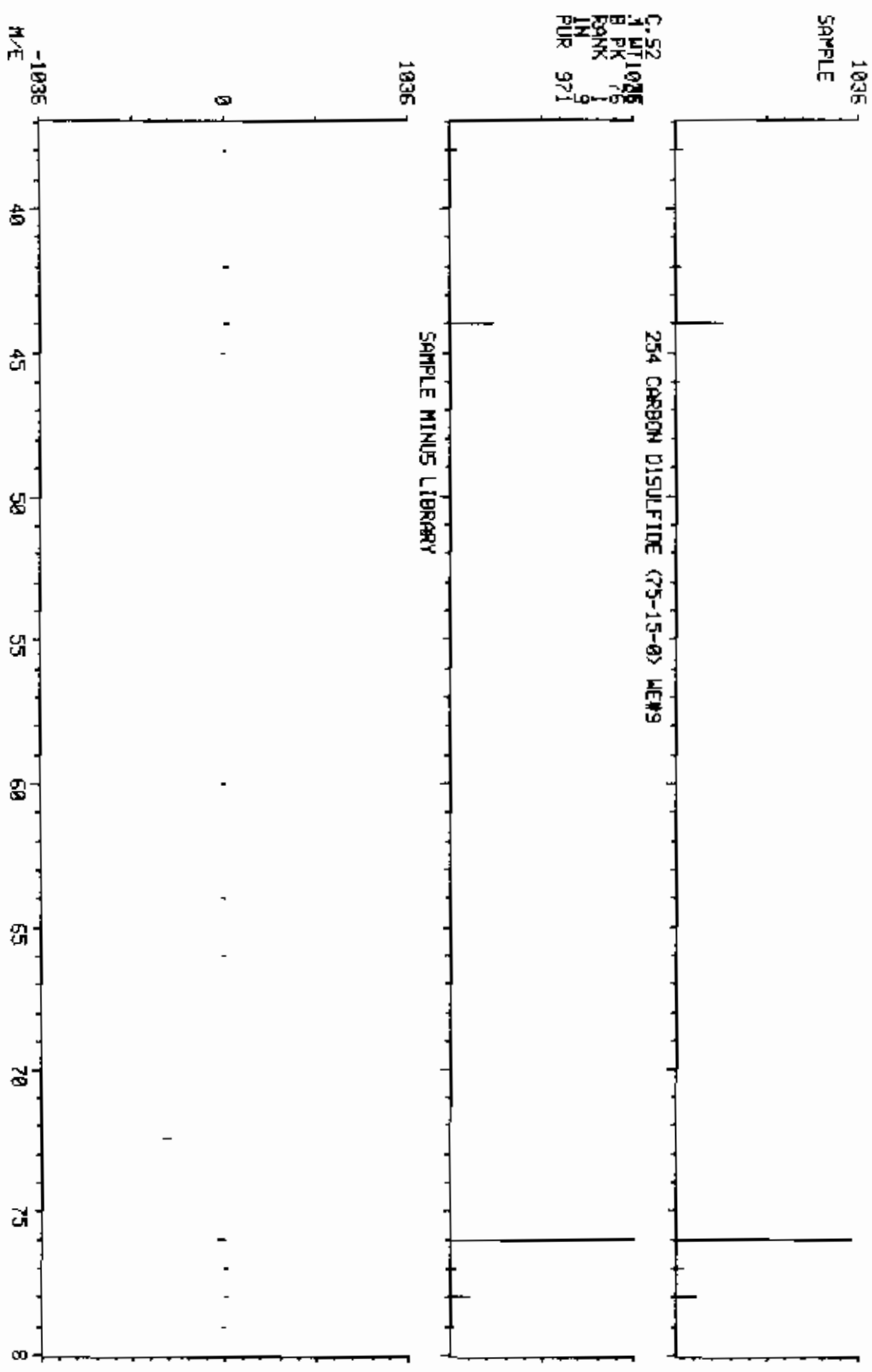
COMPUchem LABS
DATA: CR002182B18 #99
209 CHLOROETHANE (75-88-3) MEIS

BASE M/E: 54/ 64
R1C: 2851. / 5111.



LIBRARY SEARCH
 11/16/89 23:40:00 + 2:04
 SAMPLE: 2400ML CCM 302182 I0# 738901-23 PR CASE# 19410 ON #18
 ENHANCED (S 158 2N 0T)

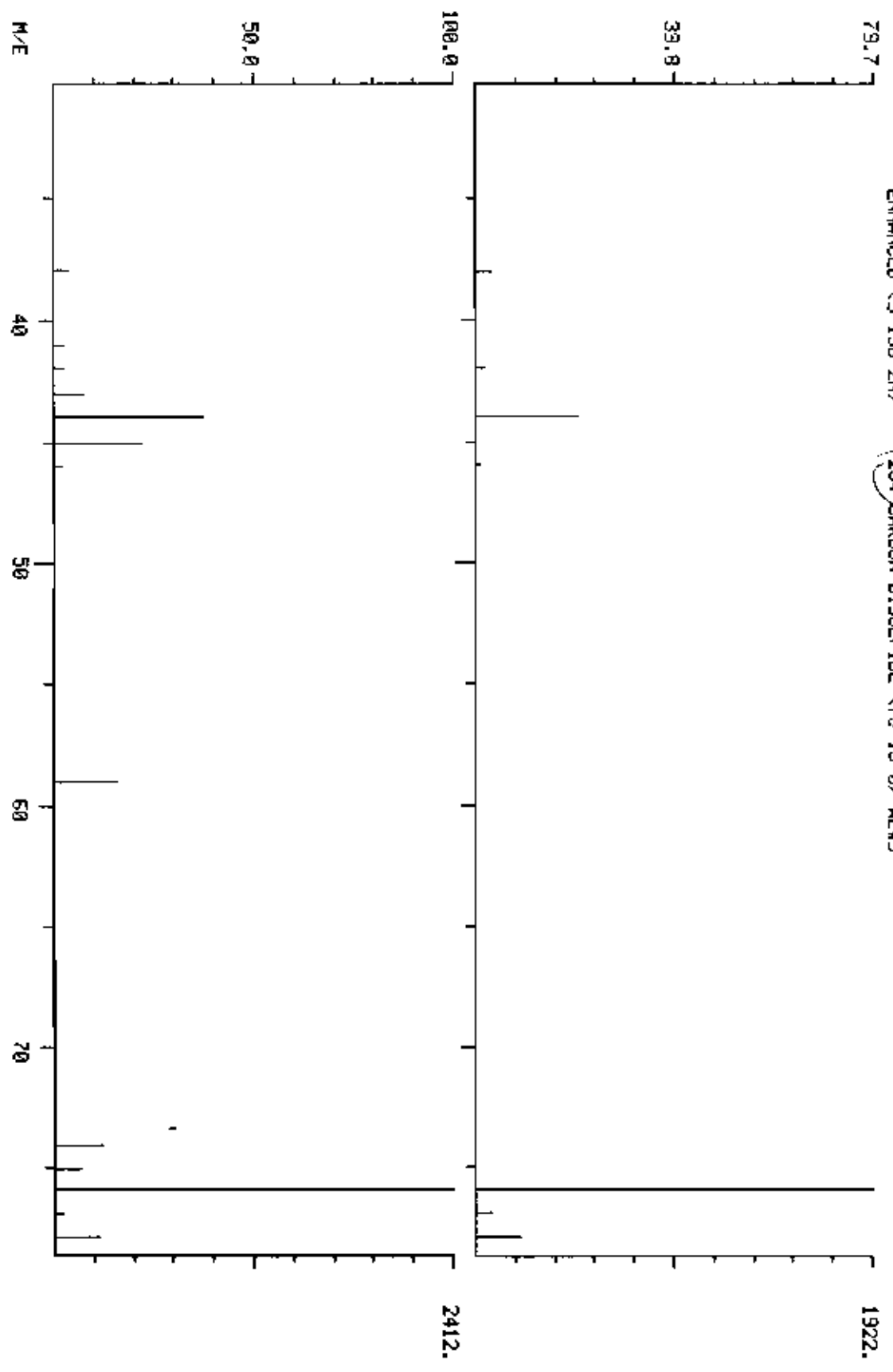
COMPUCHEN L985
 DATA: C0002182B18 * 185
 BOSE M/E: 76
 RIC: 2855.



DUAL MASS SPECTRUM
11/16/89 23:40:00 + 2:04
SAMPLE: 2400UL CC# 302182 ID# 738001-23 RE CASE# 19410 ON #18
ENHANCED (5 158 2N) (254 CARBON DISULFIDE <75-15-8> MEN#9

COMPUchem LABS
0.4% + 0.4%

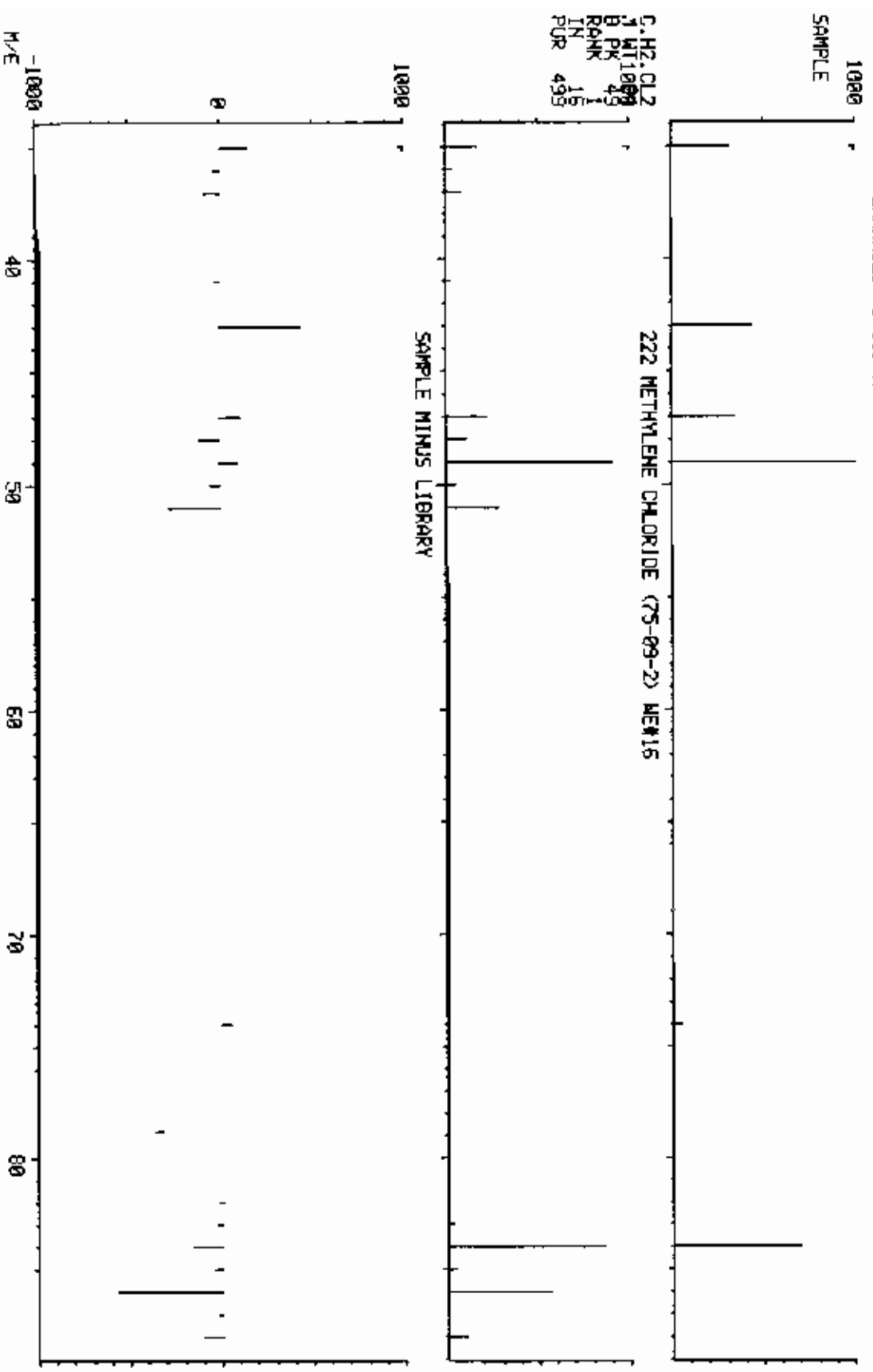
DATA: CR002102B10 #165 BASE M/E: 75/ 76
RIC: 2055.7 5463.



LIBRARY SEARCH
 11/15/89 23:40:00 + 2:38
 SAMPLE: 2400UL CCM 302192 10# 738001-23 RE CASE# 18410 ON #18
 ENHANCED (5 1SB 2N 0T)

COMPUCHEM LABS
 05/11/89
 DATA: CR002182B19 # 211

BASE M/E: 49
 RIC: 760.



DUAL MASS SPECTRUM

11/16/89 23:48:00 + 2:38

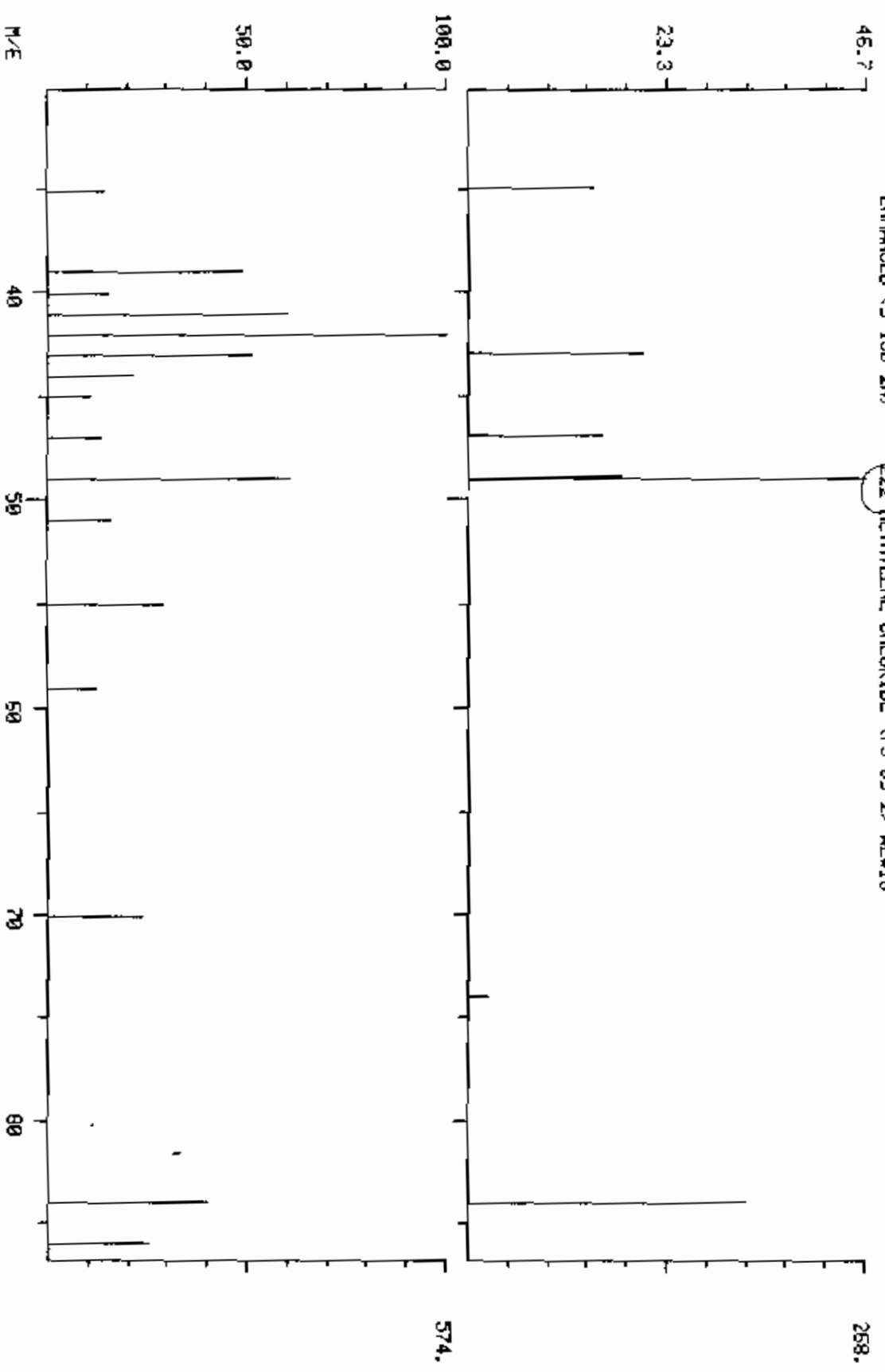
SAMPLE: 2400UL CC# 302182 ID# 738001-23 PC CASE# 18410 ON #18

ENHANCED (5 1SB 2N) 222 METHYLENE CHLORIDE (75-09-2) ME#16

COMPUchem LABS

DATA: CR002182818 #211

BASE M/E: 49/ 42
RIC: 769, 3111.

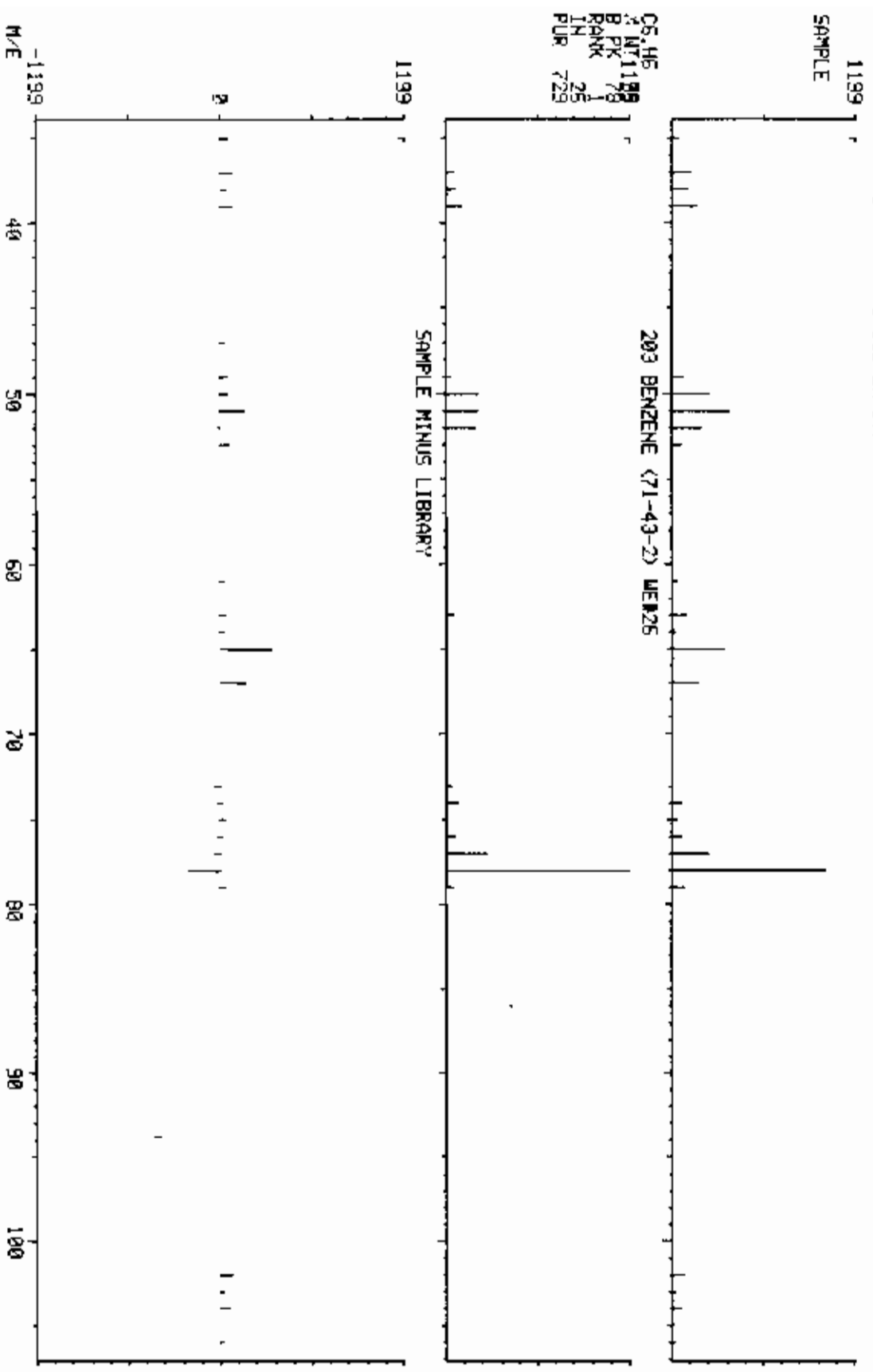


LIBRARY SEARCH
 11/16/89 23:40:00 + 5:27
 SAMPLE: 2400UL CCM 302182 10# 738901-23 PC CASE# 10410 ON #18
 ENHANCED (5 158 2N 0T)

COMPUCHEM LABS
D¹¹S¹¹N¹⁰

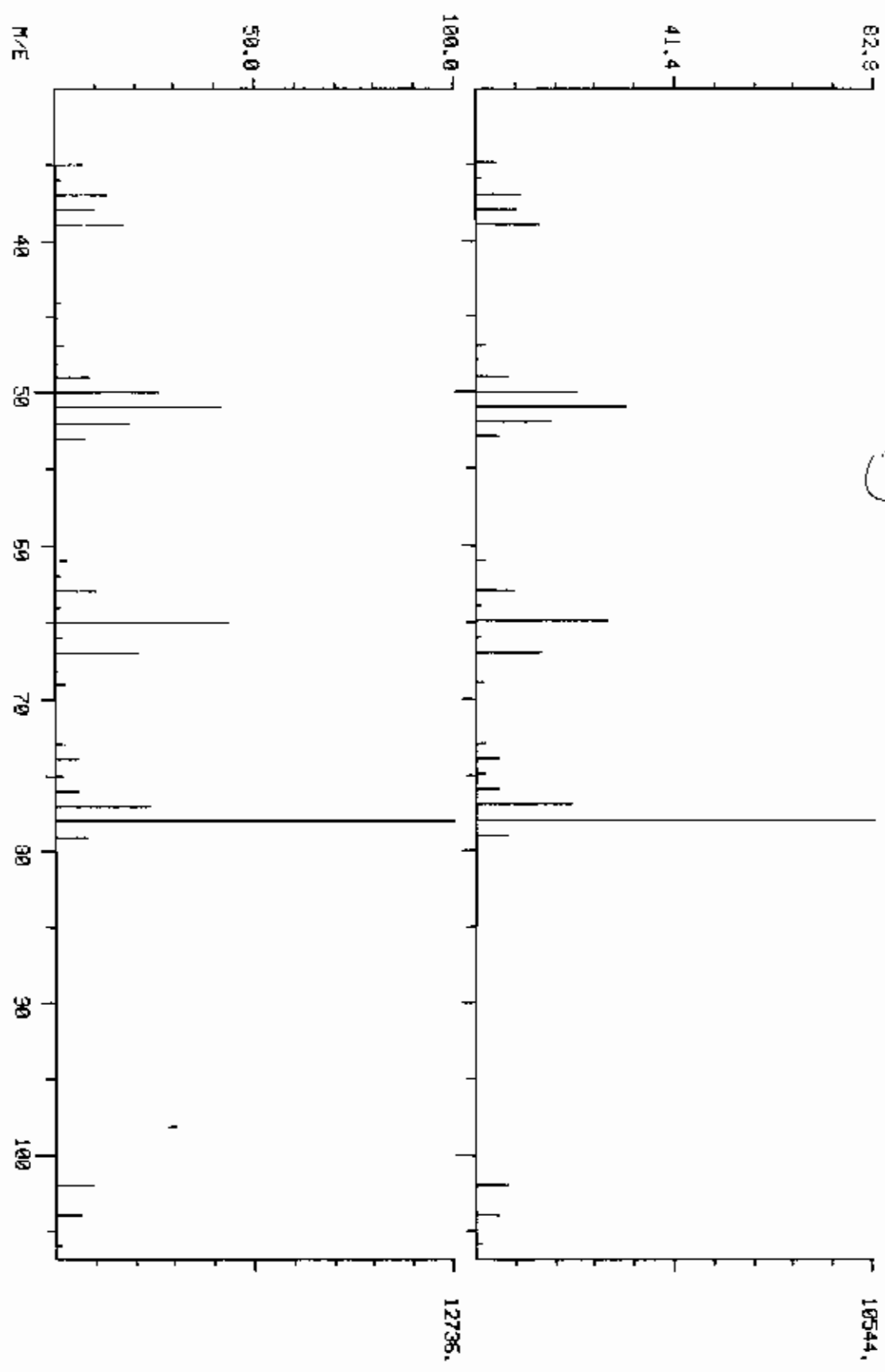
DATA: CR002182B18 # 436
 BASE M/E: 78
 RIC: 38079.

05.H5
 2 INT 1199
 0 PK 78
 1 RANK 1
 26 IN 26
 729 PUR 729



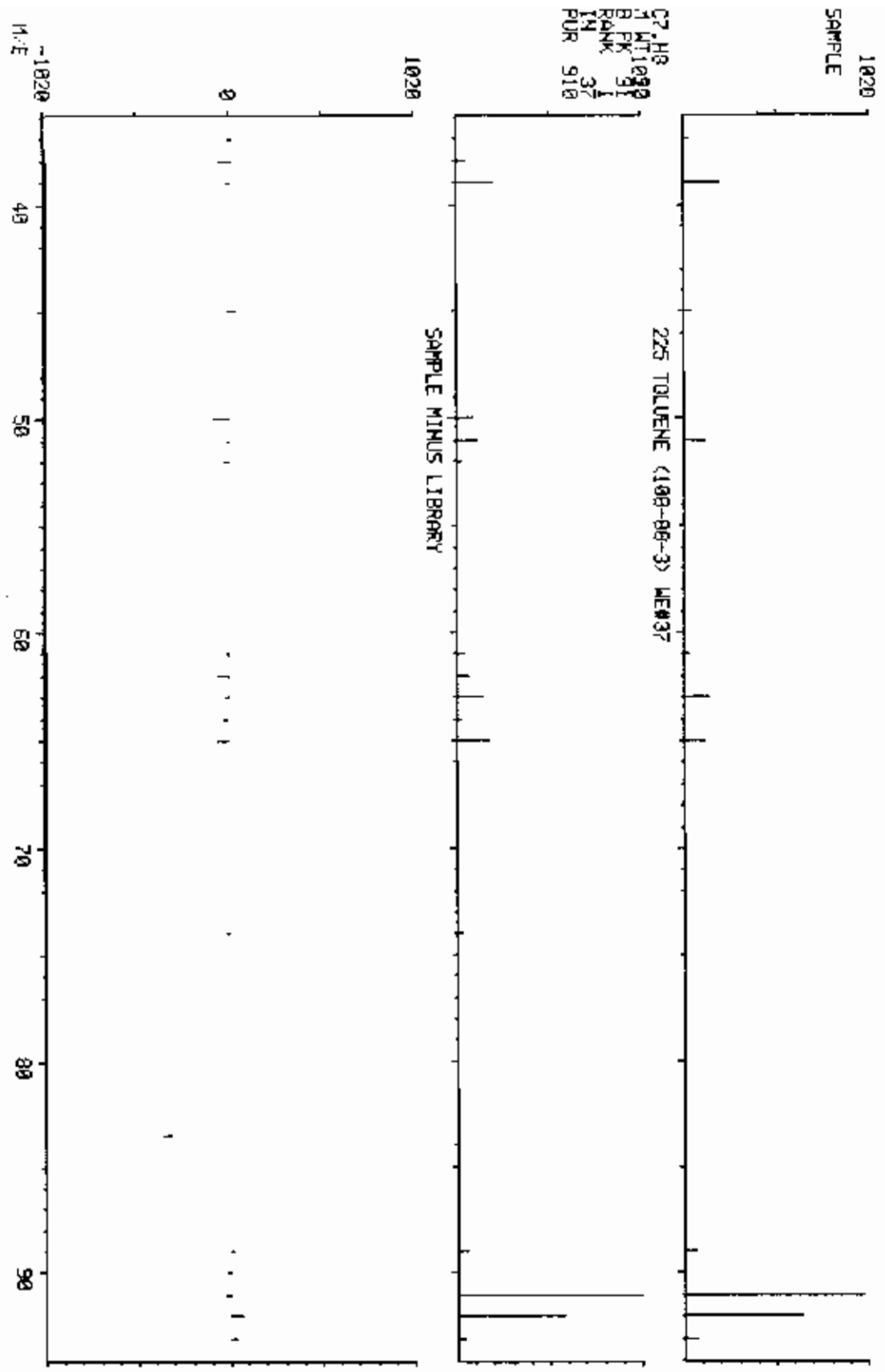
DUAL MASS SPECTRUM
11/16/89 23:40:00 + 5127
SAMPLE: 2400UL CCI 302192 10# 738001-23 BE CASE# 18410 ON #18
ENHANCED (5 158 2N)

COMPUchem LABS
DATE: CR002162818 M436
BASE M/E: 78/ 78
R1C: 38847.7 51569.



COMPUchem LABS
 DATE: 0602182818 # 591
 BASE M/E: 91
 RIC: 3655.
 LIBRARY SEARCH
 11/15/89 23:40:00 + 8:31
 SAMPLE: 2400UL CC# 302182 ID# 738001-23 RE CRSE# 18410 ON #18
 ENHANCED (S. 158 2N 01)

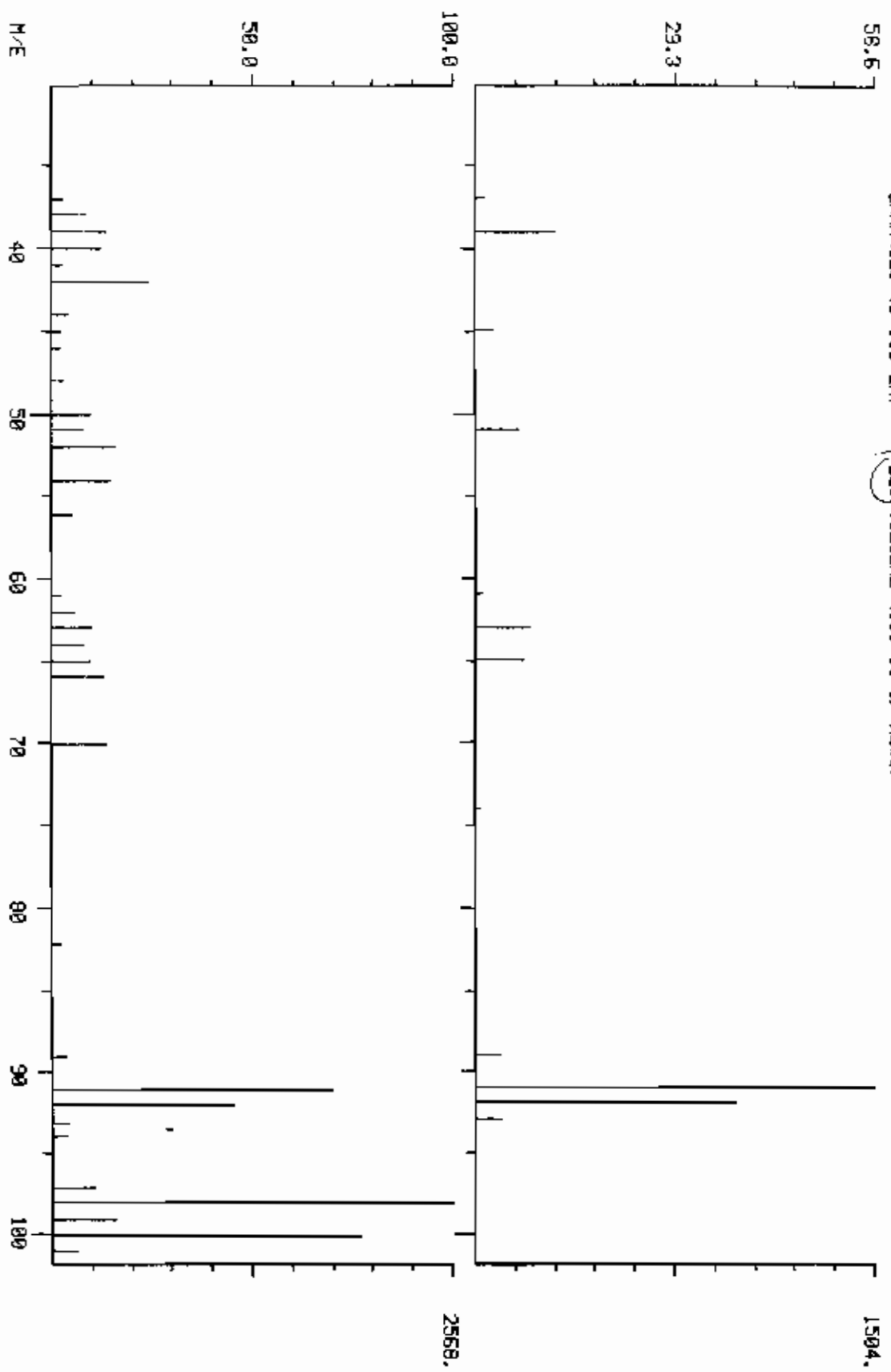
C7, H8
 1 M 1090
 R FK 91
 RANK 37
 TN 1
 PUR 910



DUAL MASS SPECTRUM
11/15/89 23:40:00 + 8:31
SAMPLE: 2400UL CC# 302182 ID# 738001-23 BE CASE# 18410 ON #18
ENHANCED (5 150 ZN) (225) TOLUENE (100-00-0) ME#37

COMPUchem LABS
CALS

DATA: CR002192818 #601 BASE M/E: 91/ 98
RID: 3651, 13557.

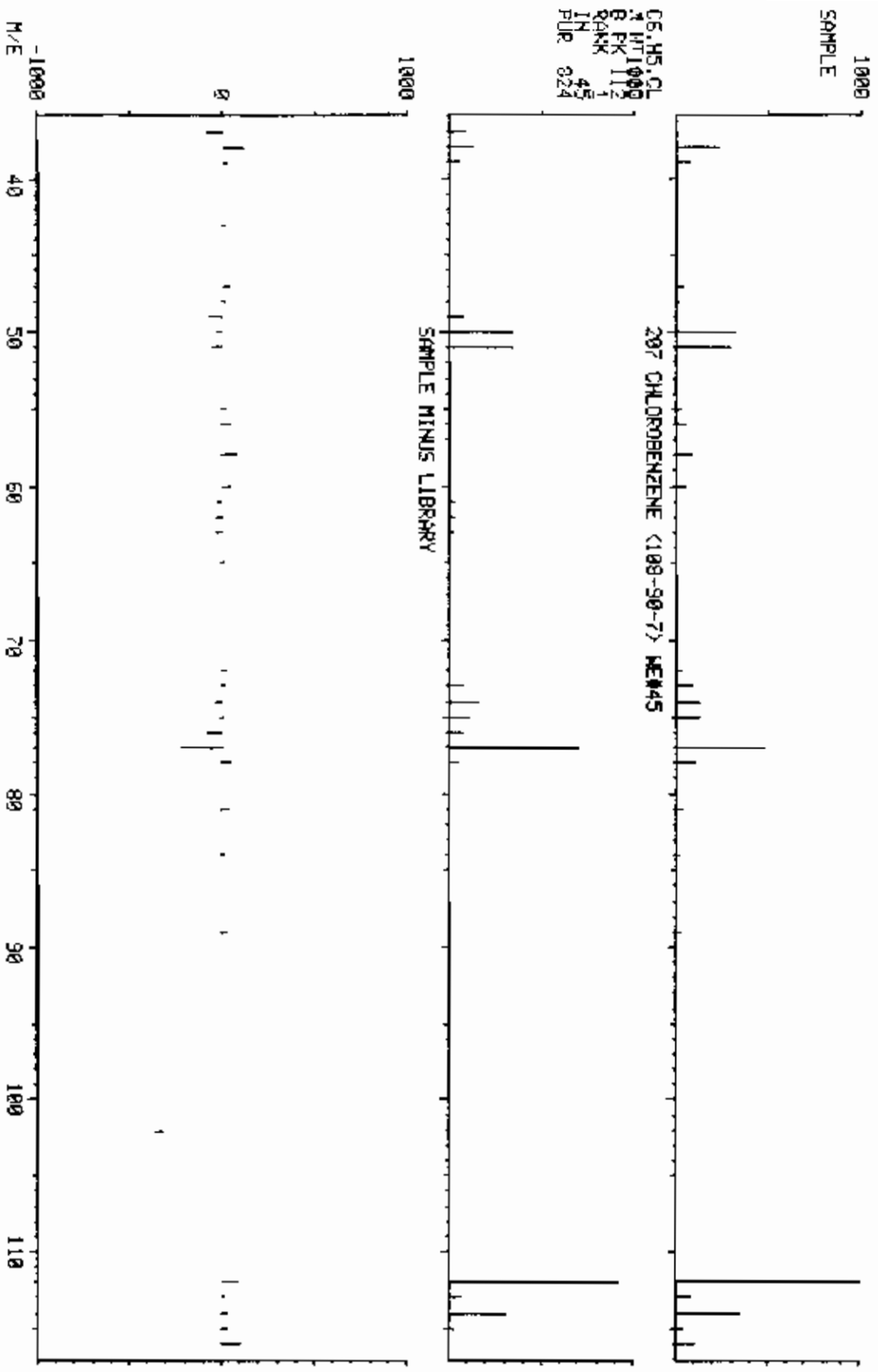


LIBRARY SEARCH
11/16/89 23:49:00 + 10:54
SAMPLE: 2400UL GCN 302182 ID# 738001-23 KE CASEN 19410 ON M18
ENHANCED (5 158 2N 0T)

COMPUchem LABS
DATA: CR002182B19 # 072

BASE M/E: 112
RIC: 11167.

06.HS.CL
7 WT 1000
8 PK 112
9 QAKK 11
10 IN 45
11 PLP 024



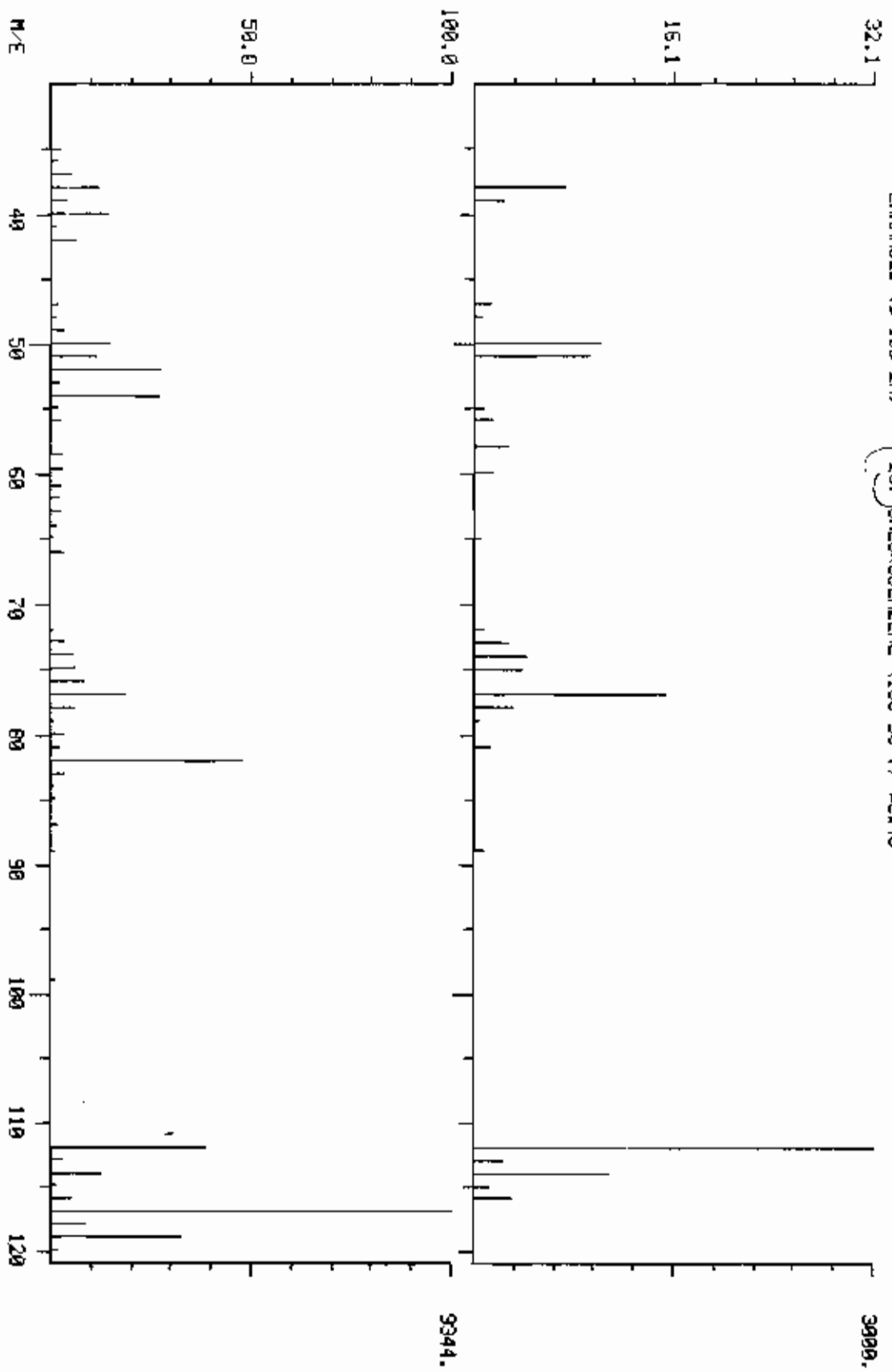
DUAL MASS SPECTRUM
11/16/89 23:40:00 + 10:54
SAMPLE: 2400UL C0# 302182 10# 738001-23 RE CASE# 19419 OH #10
ENHANCED (5 158 ZN) 207 CHLOROBENZENE (189-90-7) WEN45

APR 11 1990

COMPUCHEN LABS

DATA: CR002182918 #872

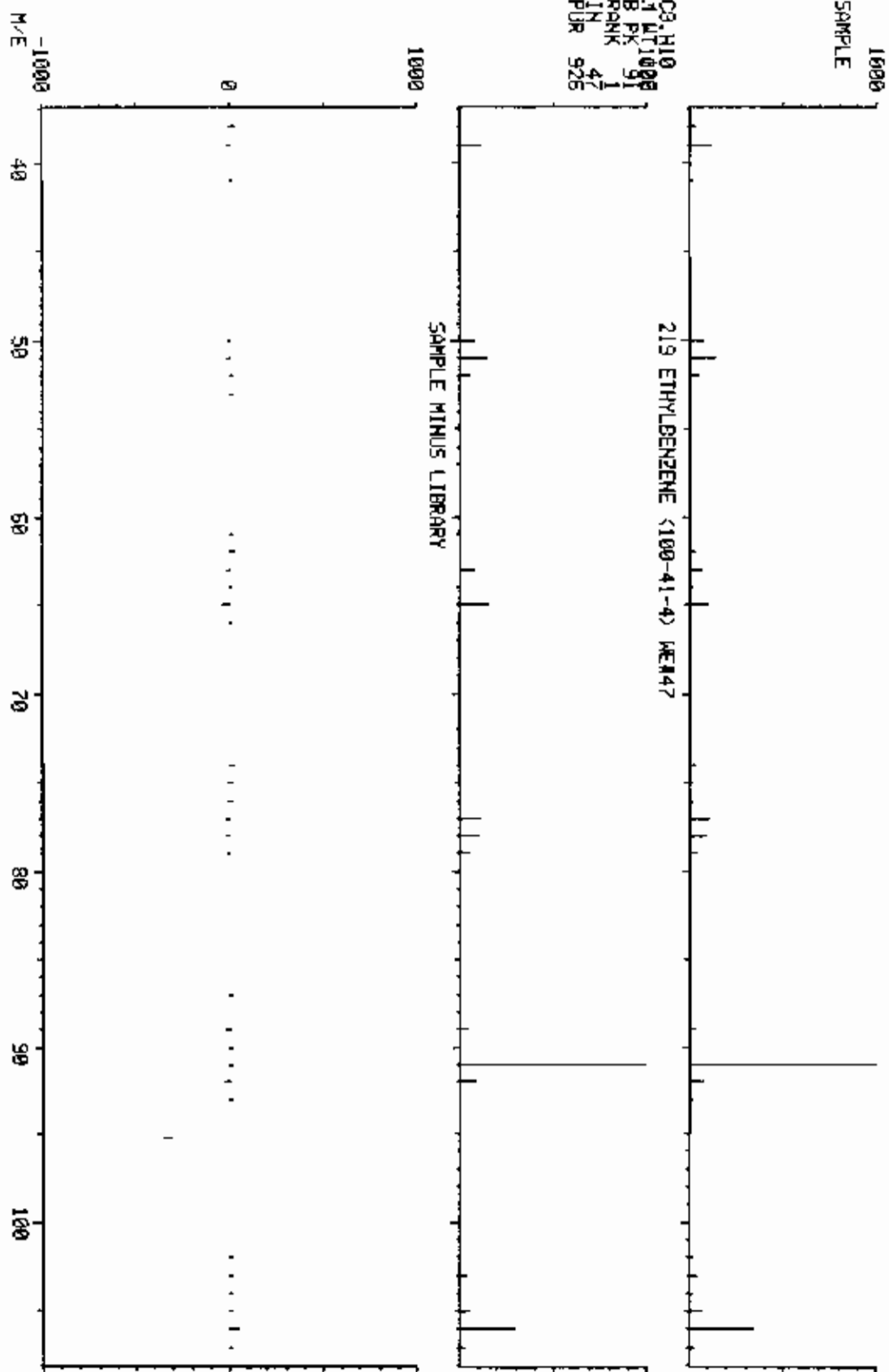
BASE M/E: 112/ 117
R1C1 11199.7 44479.



LIBRARY SEARCH
 11/16/89 23:40:00 + 11:12
 SAMPLE: 2400UL CC# 302182 ID# 738801-23 ~~PE~~ CASE# 18410 ON #18
 ENHANCED (S 158 2N 0T)

COMPUchem LABS
 DATA: CR002182B19 # 096
 BASE M/E: 91
 RIC: 72063.

1000
 SAMPLE
 C8, H10
 I ALT 1000
 B PK 91
 RANK 47
 IN 1
 PUR 926



DUPL MASS SPECTRUM
11/15/89 23:48:00 + 11:12
SAMPLE: 2400UL CCM 302162.10# 738001-23 RE CASE# 19410 ON #18
ENHANCED (S 158 2N)

219

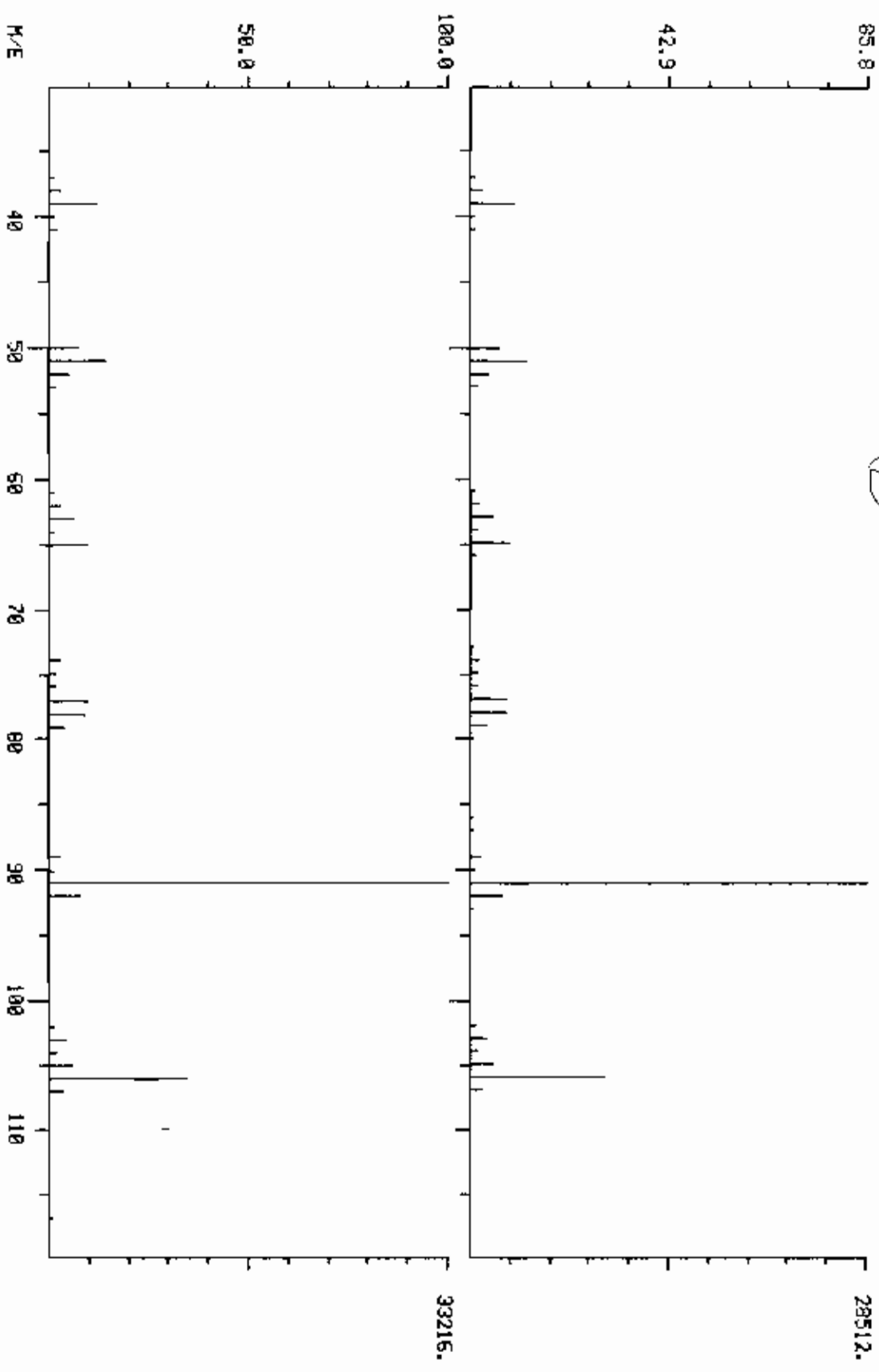
ETHYLBENZENE (100-41-4) MW#47

COMPUCHEN LABS

DATE: 11/15/89

DATA: CR002162B18 #896

BASE M/E: 91 / 91
RIC: 73887. / 87295.

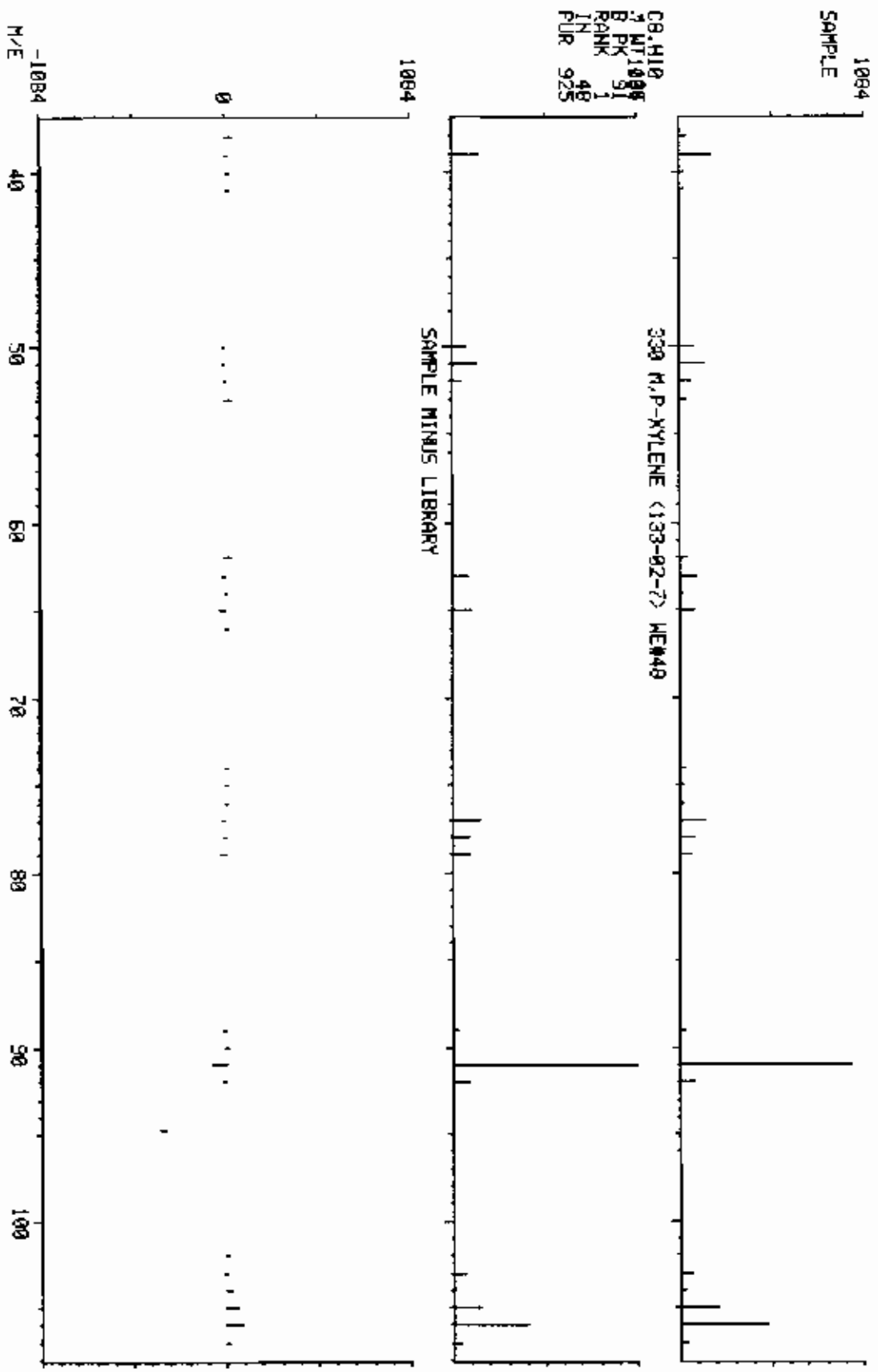


LIBRARY SEARCH
11/16/89 23:40:00 + 11:25
SAMPLE: 2400UL CCM 302182 ID# 738801-23 RE CASE# 18419 CM #18
ENHANCED (S 158 2H 0T)

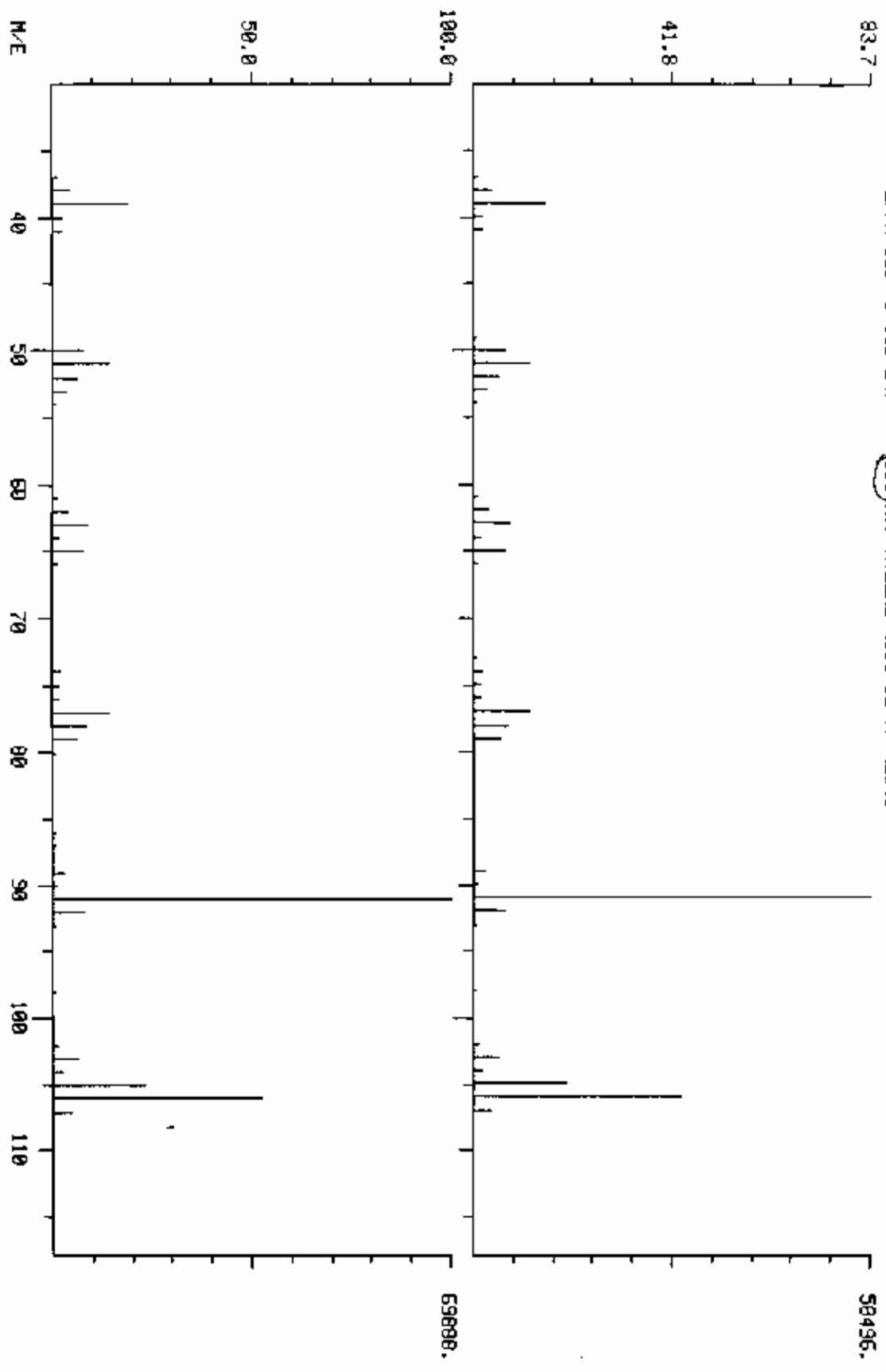
COMPUCHEM LABS

DATA: CR002192B19 # 514

BASE M/E: 91
R/C: 185343.

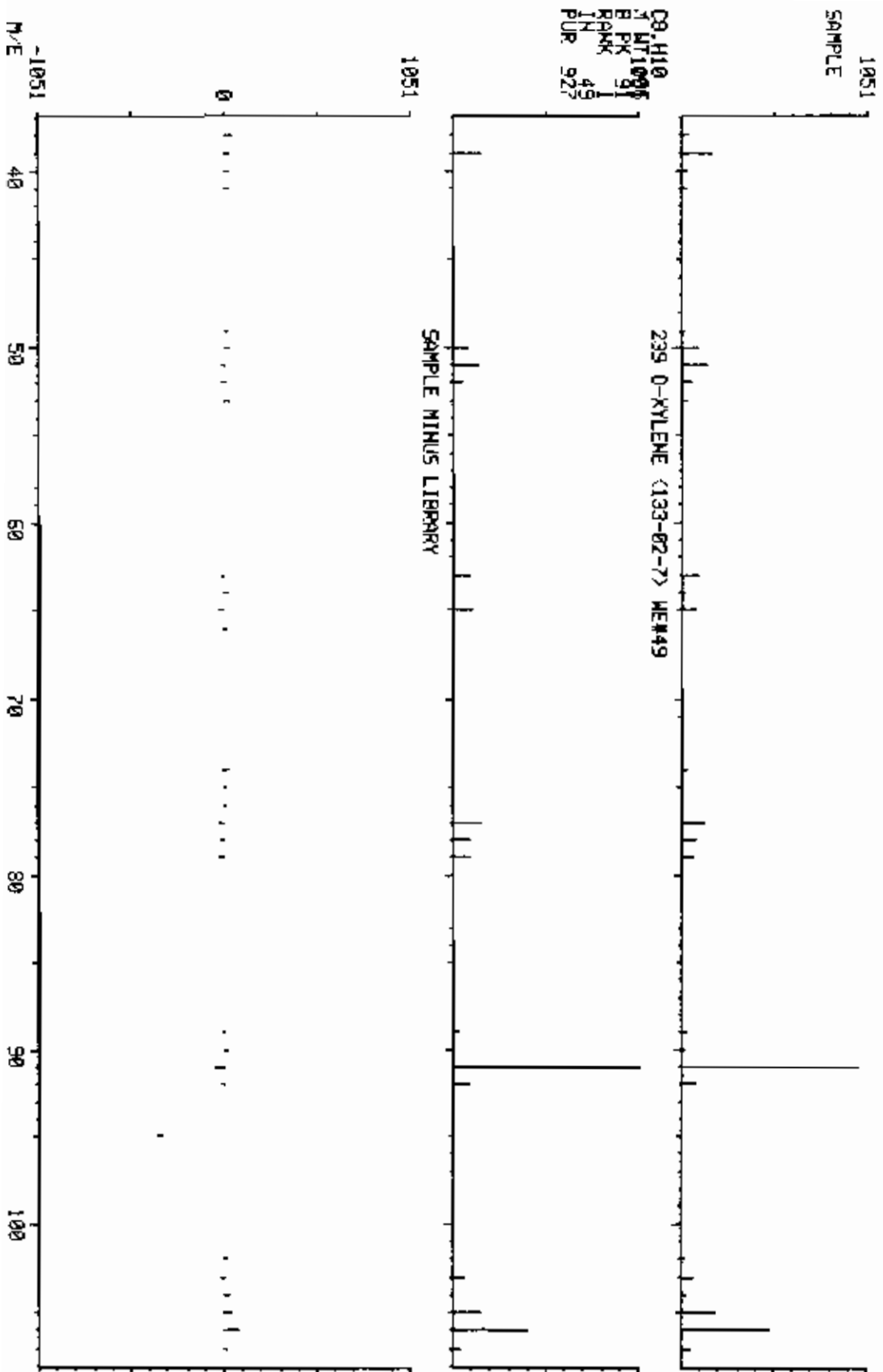


DUAL MASS SPECTRUM
 11/15/89 23:40:00 + 11:25
 SAMPLE: 2480M_C01 302182-10# 738001-23 RE C9SE# 18410 ON #18
 ENHANCED (S 15B 2H) (300) M,P-XYLENE (133-02-7) MEM#18
 COMPUTHER LABS
 DATE: 08002182818 #914 BASE M/E: 91/ 91
 RIC: 190207./ 227327.



LIBRARY SEARCH
11/16/89 23:40:00 + 12:07
SAMPLE: 2400UL CCM 302182 ID# 738001-23 RE CASE# 18410 ON #18
ENHANCED (S 158 ZN 91)

COMPUchem LABS
DATA: CR002182810 # 969
BASE M/E: 91
RIC: 42495.

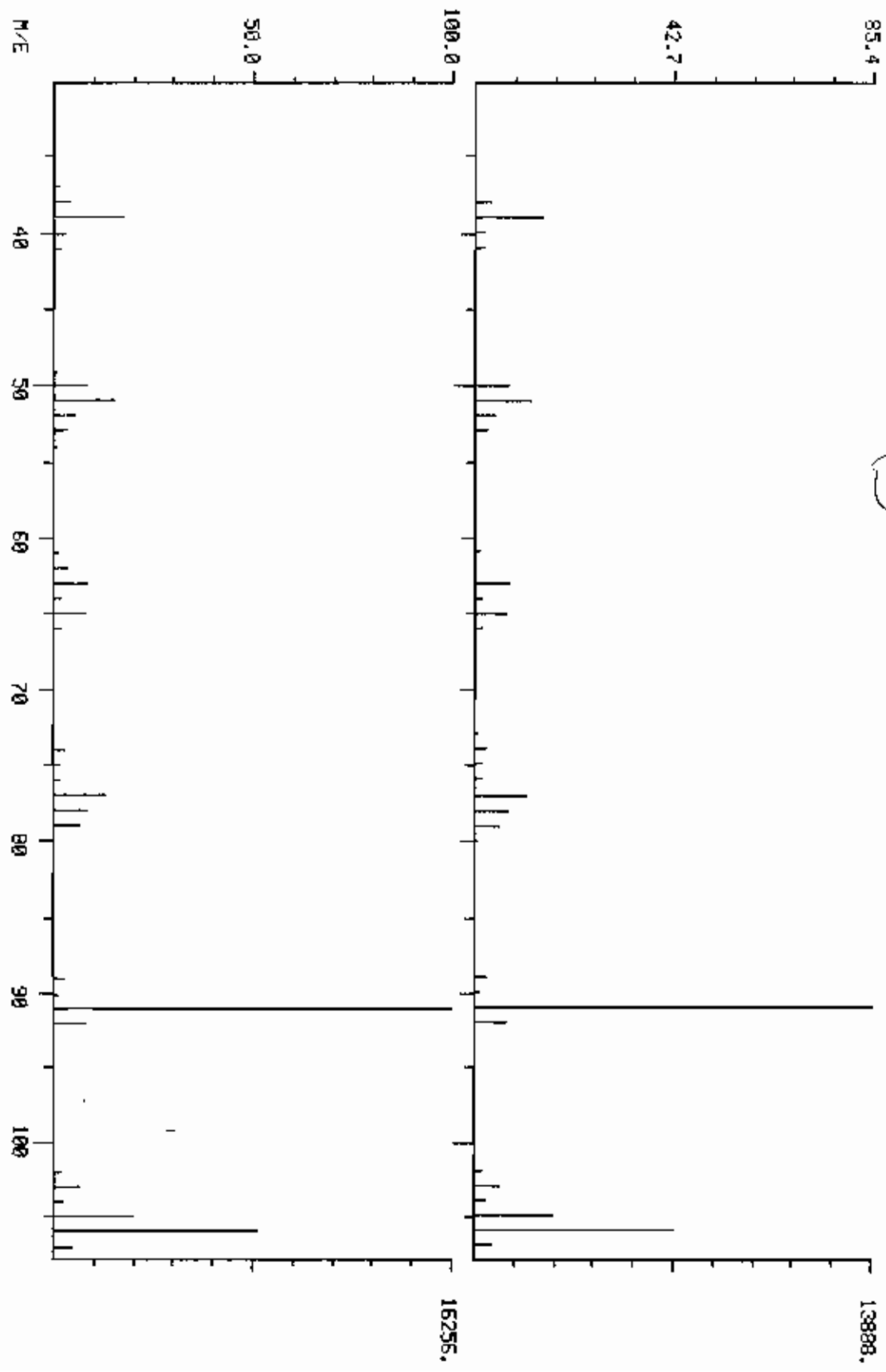


DUAL MASS SPECTRUM
11/15/89 23:40:00 + 12:07
SAMPLE: 2400UL CCM 302182_10# 73001-23 RE CASE# 18410 ON #18
ENHANCED (5 150 2M)

239

D-XYLENE (133-02-7) ME#49

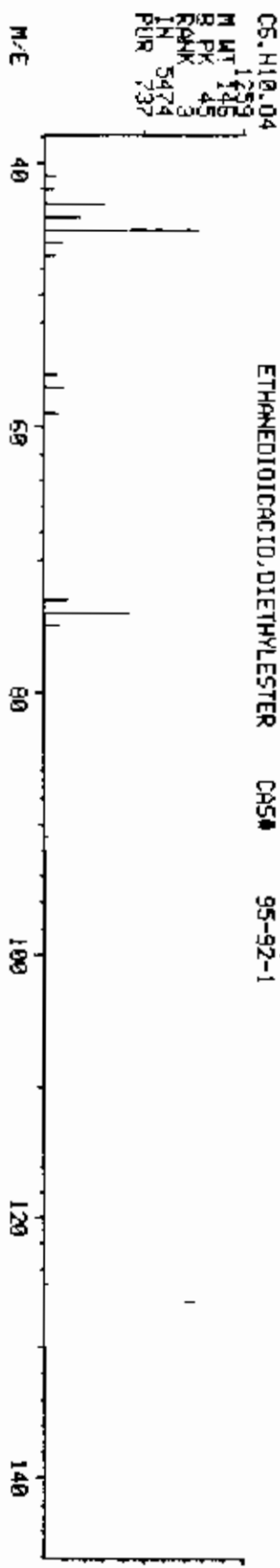
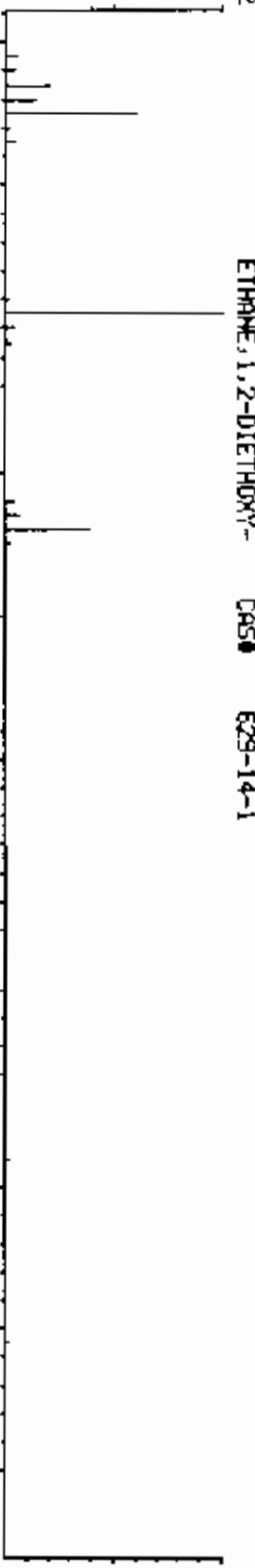
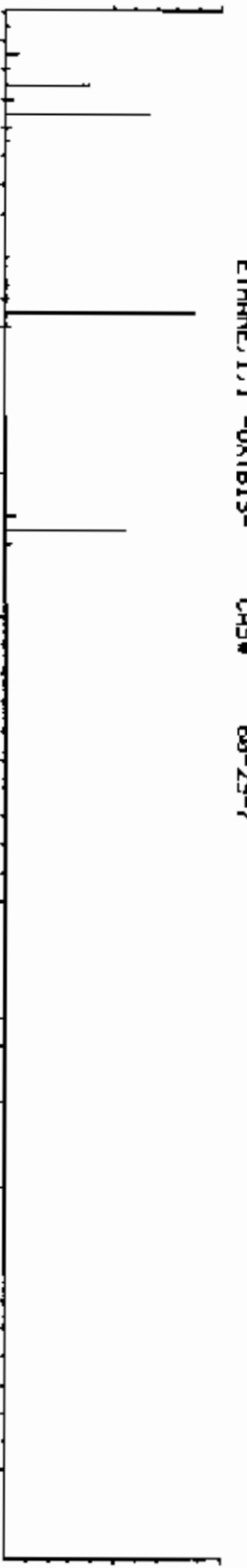
COMPUCHEN LABS
DATA: CR002182B18 #969 BASE M/E: 91 / 91
RIC: 42879. / 51455.



LIBRARY SEARCH
 11/16/89 23:40:00 + 1:46
 SAMPLE: 2400UL CCM 302102 100 738001-23 PE CASE# 18410 ON #18
 ENHANCED (5 150 2N 0T)

COMPUchem LABS
 C:\51117\51 DATA: CR002102R18 # 142
 BASE N/E: 59
 RIG: 75647.

1259
 SAMPLE



LIBRARY SEARCH
11/16/89 23:40:00 + 13:52
SAMPLE: 2400ML CC# 302182 ID# 738001-23 RE CASE# 18419 ON #18
ENHANCED (5 158 2H 0T)

COMPUCHEM LABS

DATE: 0802182818 #1109
BASE M/E: 105
R/C: 14927.

1121

SAMPLE

C9.H12

M RT 1121
3 PK 105
RANK 1
IN 2529
PUR 9990

BENZENE, 1-ETHYL-3-METHYL- CAS# 628-14-4

C9.H12

M RT 1121
6 PK 105
RANK 2
IN 2528
PUR 889

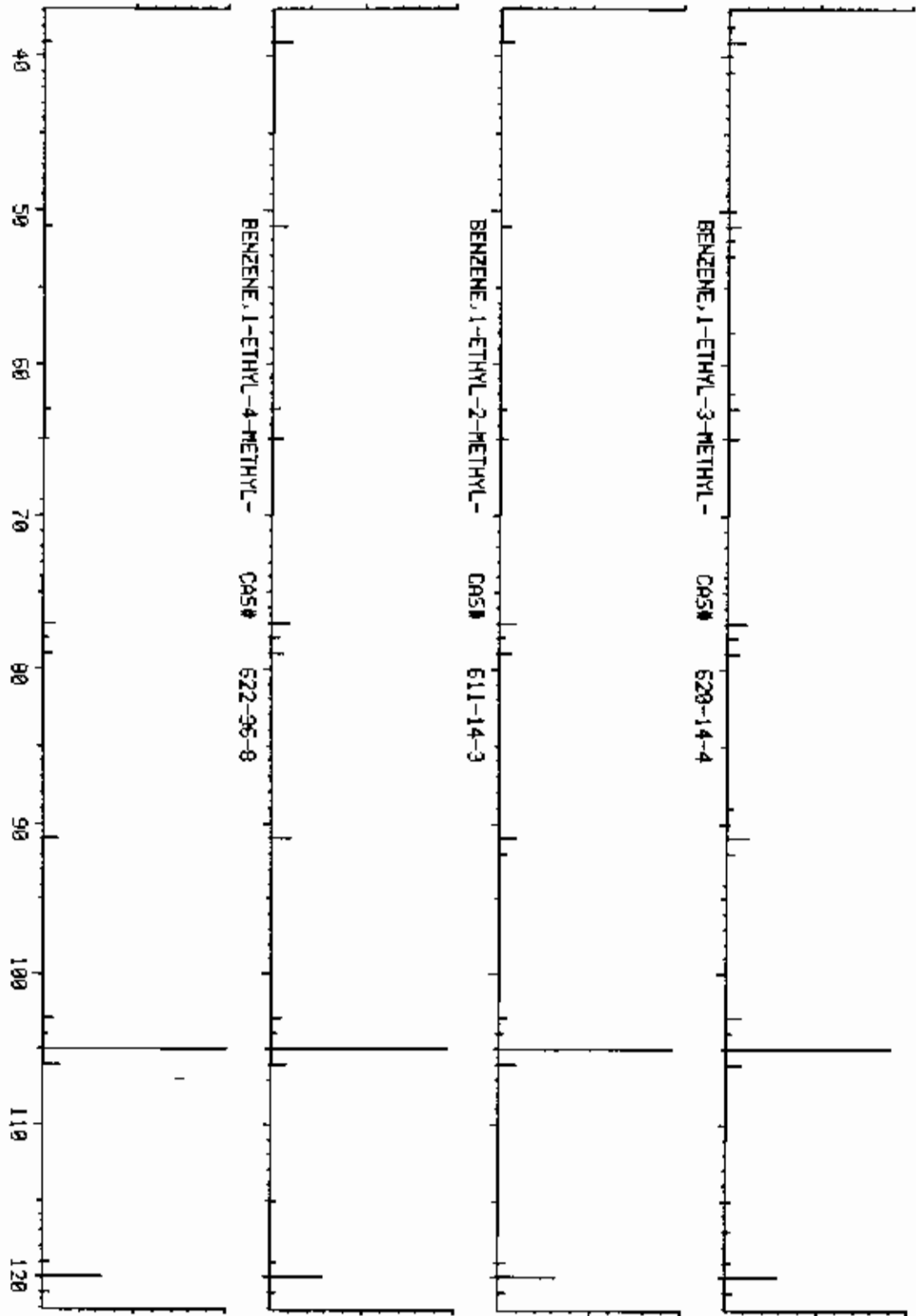
BENZENE, 1-ETHYL-2-METHYL- CAS# 611-14-3

C9.H12

M RT 1121
8 PK 105
RANK 3
IN 2530
PUR 861

BENZENE, 1-ETHYL-4-METHYL- CAS# 622-96-8

M/E



LIBRARY SEARCH
11/15/89 23:40:00 + 14:02
SAMPLE: 2400UL CCM 302192 100 738001-23 RE CASE# 18418 ON #18
ENHANCED (S 158 2N 07)

COMPUCHEN LABS

DATE: CP002182818 #1123
BASE M/E: 105
R/C: 4423.

1201
SAMPLE

C9.H12

M WT 1201
R PK 105
RANK 1
IN 2523
PUR 928

BENZENE, 1,2,4-TRIMETHYL-

CAS# 95-63-6

C9.H12

M WT 1201
R PK 105
RANK 2
IN 2526
PUR 925

BENZENE, 1,3,5-TRIMETHYL-

CAS# 108-57-8

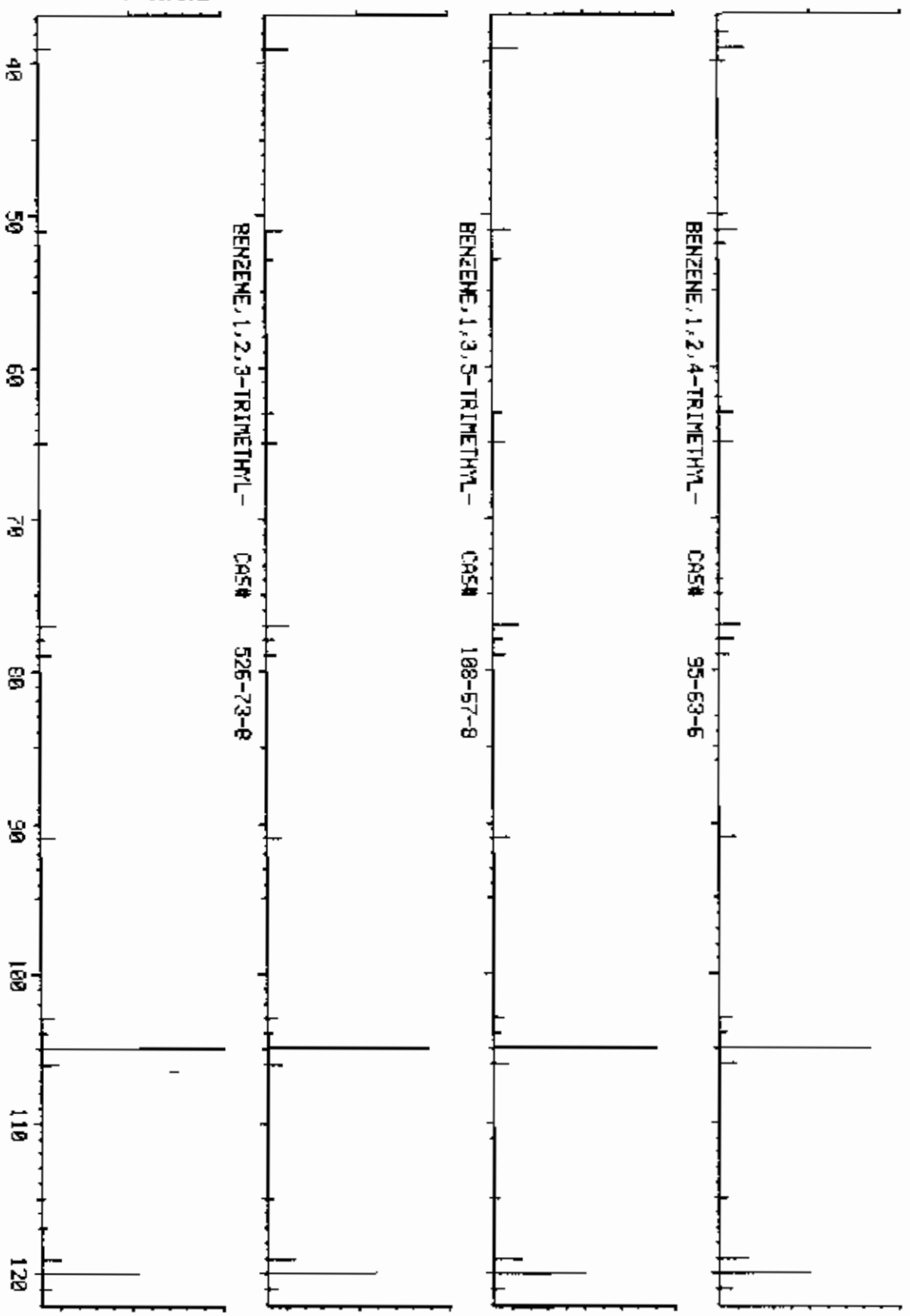
C9.H12

M WT 1201
R PK 105
RANK 3
IN 2527
PUR 914

BENZENE, 1,2,3-TRIMETHYL-

CAS# 526-73-8

M/E



LIBRARY SEARCH
 11/15/09 23:48:00 + 14:21
 SAMPLE: 2490UL CCM 302182 10# 730001-23 RT CASE# 18410 ON #10
 ENHANCED (S 150 2N 0T)

COMPUCHER LABS

DATA: CR002182B18 #1148
 BASE M/E: 105
 RIC: 6847.

1141
 SAMPLE

C9.H12
 M WT 1141
 B PK 105
 RANK 1
 IN 2529
 SUR 765

BENZENE,1-ETHYL-2-METHYL- CAS# 611-14-3



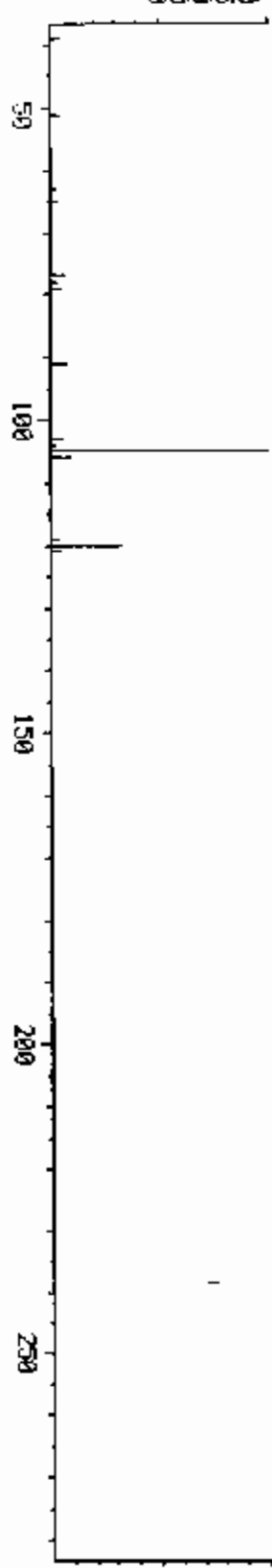
C9.H12
 M WT 1141
 B PK 105
 RANK 2
 IN 2529
 SUR 765

BENZENE,1-ETHYL-3-METHYL- CAS# 620-14-4



C9.H12
 M WT 1141
 B PK 105
 RANK 3
 IN 2530
 SUR 750

BENZENE,1-ETHYL-4-METHYL- CAS# 622-96-8



LIBRARY SEARCH
 11/15/89 23:40:00 + 14:43
 SAMPLE: 2400UL CC# 302182 ID# 738001-23 GC CASE# 18410 ON #19
 ENHANCED (S 159 ZN 0T)

COMPUCHEM LABS
 DATA: CR902182018 #1177
 BASE M/E: 105
 RIC: 25215.

1094
 SAMPLE

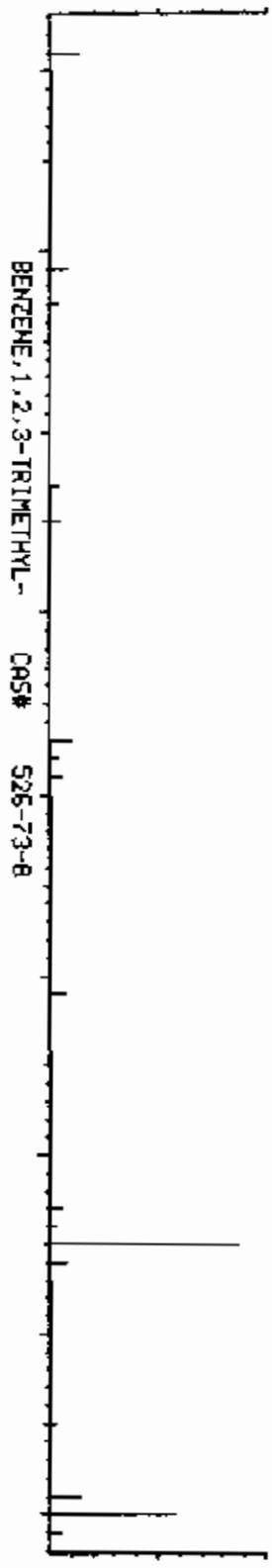
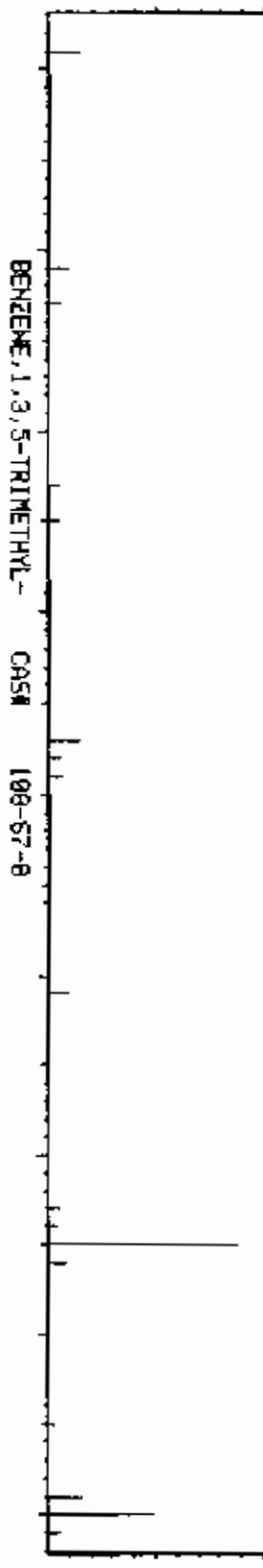
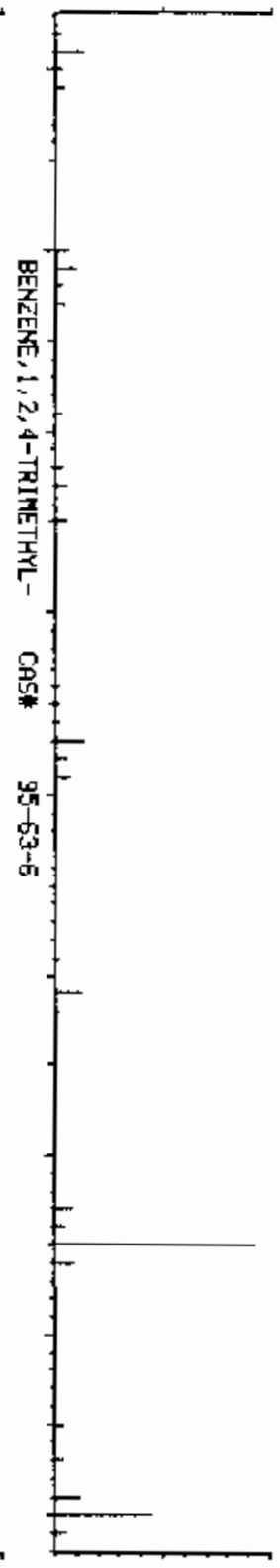
C9.H12
 1094
 M WT 120
 3 PK 105
 RANK 1
 IN 2523
 PUR 908

C9.H12
 1094

M WT 120
 B PK 105
 RANK 2
 IN 2526
 PUR 908

C9.H12
 1094
 1 WT 120
 B PK 105
 RANK 2
 IN 2527
 PUR 890

M/E 40 50 60 70 80 90 100 110 120



BENZENE, 1,2,3-TRIMETHYL- CAS# 526-73-8

BENZENE, 1,3,5-TRIMETHYL- CAS# 106-57-8

BENZENE, 1,2,4-TRIMETHYL- CAS# 95-53-5

LAB INSTRUCTIONS:

RECEIVED DATE
GC/MS WORKSHEET

CASE#: 184110
COMPUchem#: 302182R

030 3 330 3 00 3 (:1)
J20 3 J40 3 D20 3 (:1)

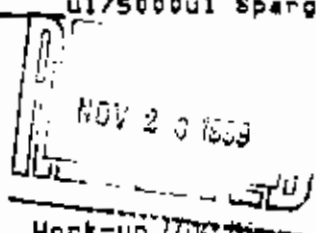
GC/MS; UOA; WATER; EPA 504 2/88

Sample Prep Code---000
Instrument Code---418
Compound List-----493
Surrogate Std-----394
Internal Std-----016

===== ^{OKS, 11/15/89}
SAMPLE ID#: 738001-23 RE
=====

GC/MS ANALYSIS

Amount Purged: [] Smls or [] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename PC891116A18 Disk ()
Blank Filename CC891116A18 Disk ()
Standard Filename CS891116A18 Disk ()
Sample Filename C30021821318 Disk ()



ANALYST(S): Injection: WJRM

Work-up: WJRM

GC/MS REVIEW

CONDITION CODE

Box containing handwritten 'OKS' and 'p. 17' with a checkmark.

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

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

Disposition: [] Complete
[] Reinject Neat
[] Dilute (:1)

Extraneous Peak Search Results:

of Peaks Found: 6

Quality Assurance Notice(s):

Notices Required 0



COMMENTS:

GC/MS Review OKS Date 11/12/89 Auditor WJRM Date 11/18/89

REPORT INTEGRATION

Final Reportable Package(s): GR0-A15

Total # of Injections: 2

QA COMMENTS:-

FINAL REVIEW:

Initials _____ Date ____/____/____

Initials _____ Date ____/____/____

AC1004 (03/89)

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	138 I	BROMODICHLOROMETHANE (15)	371	43100	50.0		
221	50	CHLOROMETHANE				BDL	21
231	62	VINYL CHLORIDE				BDL	21
220	94	BROMOMETHANE				BDL	21
209	64	CHLOROETHANE			23.2	48	21
216	96	1,1-DICHLOROETHENE				BDL	10
254	76	CARBON DISULFIDE			8.2	17	10
252	43	ACETONE (2-PROPANONE)				BDL	21
248	114 I	1,4-DIFLUOROBENZENE (15)	500	160000	50.0		
222	84	METHYLENE CHLORIDE			1.6	30	10
226	96	TRANS-1,2-DICHLOROETHENE				BDL	10
214	63	1,1-DICHLOROETHANE				BDL	10
257	43	VINYL ACETATE			14.8	300	21
237	96	CIS-1,2-DICHLOROETHENE				BDL	10
253	72	2-BUTANONE				BDL	21
211	80	CHLOROFORM				BDL	10
227	97	1,1,1-TRICHLOROETHANE				BDL	10
206	117	CARBON TETRACHLORIDE				BDL	10
203	78	BENZENE			48.8	100	10
215	62	1,2-DICHLOROETHANE				BDL	10
270	117 I	D5-CHLOROENZENE (16)	868	147000	50.0		
229	130	TRICHLOROETHENE				BDL	10
217	63	1,2-DICHLOROPROPANE				BDL	10
212	83	BROMODICHLOROMETHANE				BDL	10
218	75	CIS-1,3-DICHLOROPROPENE				BDL	10
256	43	4-METHYL-2-PENTANONE				BDL	21
225	92	TOLUENE			5.6	12	10
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	10
228	97	1,1,2-TRICHLOROETHANE				BDL	10
224	164	TETRACHLOROETHENE				BDL	10
255	43	2-HEXANONE				BDL	21
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	10
207	112	CHLOROBENZENE			10.9	23	10
219	106	ETHYLBENZENE			74.5	150	10
330	106	M, P-XYLENE			145.0	300	10
239	106	O-XYLENE			35.7	74	10
251	104	STYRENE				BDL	10
205	173	BROMOFORM				BDL	10
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	10
258	65 S	D4-1,2-DICHLOROETHANE WE#57			44.5	89. %	
247	95 S	BROMOFLUOROBENZENE			46.2	92. %	
233	98 S	D8-TOLUENE WE#59			48.8	98. %	
289	106	XYLENES (TOTAL)			191.0	380	10

CORRECTED/REVIEWED BY C. J. Smith
(GC/MS DATA REVIEWER)DATE 11-7-89

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	10
CHECKSUMS:							
		3779.	1739	350100.		838.6	1416.

CORRECTED/REVIEWED BY *C. A. Staley*
(GC/MS DATA REVIEWER)DATE 11/27/89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	238	D4-1,2-DICHLOROETHANE WE#57	44.5	50.0	89.	76-114	X	
41	247	BROMOFLUOROBENZENE	46.2	50.0	92.	86-115	X	
42	233	D6-TOLUENE WE#59	48.8	50.0	98.	88-110	X	

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

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = 2.08 = \frac{5.000 \text{ ML}}{2.400 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

=====

VERSION 8

CORRECTED/REVIEWED BY OKW
 (GC/MS DATA REVIEWER)

DATE 11-17-89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-24

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 102176
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002176B1E
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001-24

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302176
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002176B18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

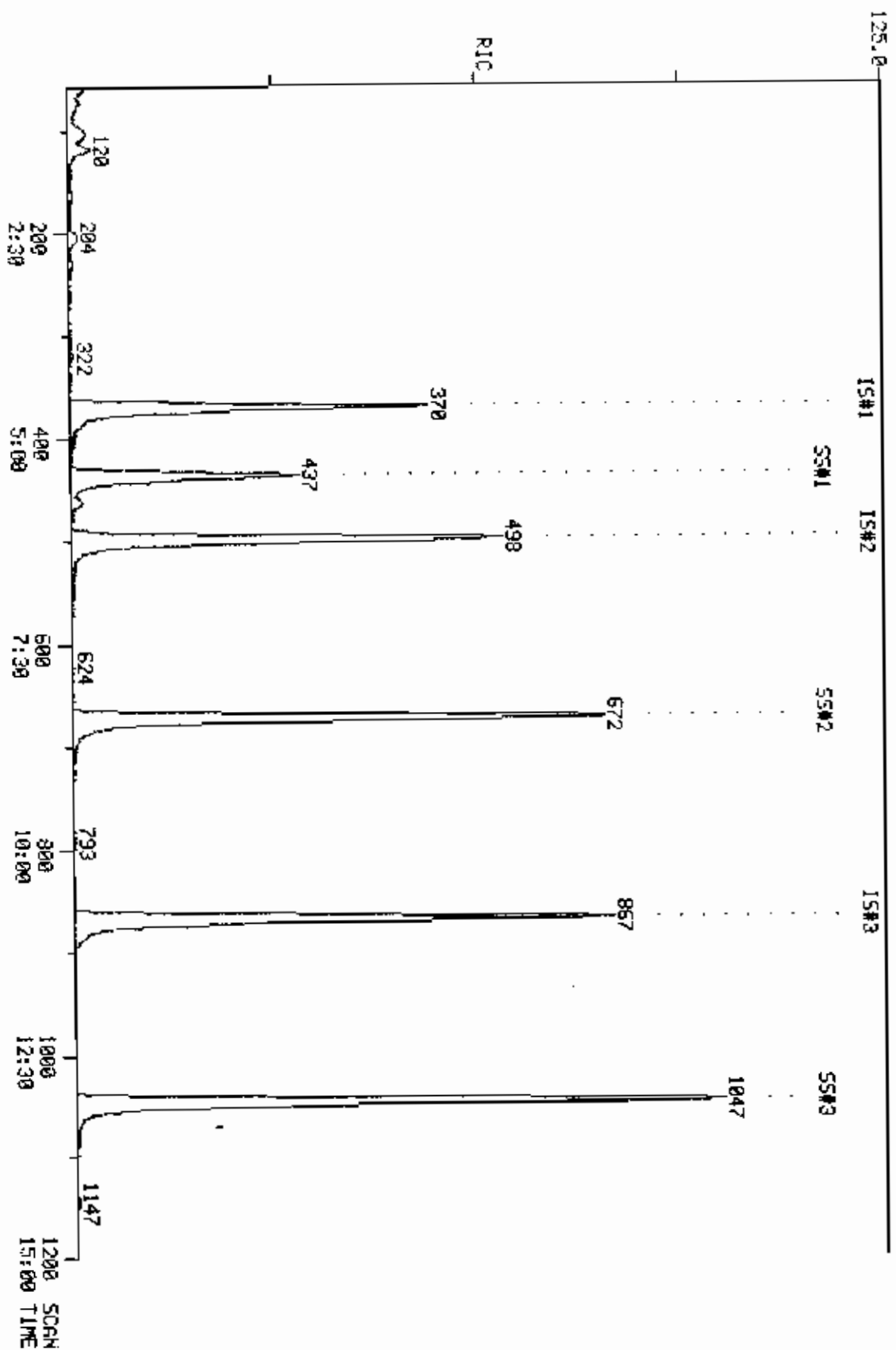
CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
-----	-----	-----	-----	-----

RIC
11/16/89 21:56:00
SAMPLE: SML C#: 302176 I0# 730001-24 CASE# 18410 ON 118
COND5.:

COMPUchem L985
COMPUchem DATA: CH002176B18 SCANS 59 TO 1200

89160.



QUANTITATION REPORT FILE: CN002176B18
 DATA: CN002176B18.TI ✓
 11/16/89 21:58:00 ✓
 SAMPLE: SML CC#. 302176 ID# 73B001-24 CASE# 18410 QN #18
 CONDS.:
 SUBMITTED BY: 18 ANALYST: 1009 ✓

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (18) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 O5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	*203 O8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	12E	370	4:37	1	1.000	A B8	42209.	50.000 UG/L	17.26
2	50	NOT FOUND							

NO	H/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	%TOT
3	62	74	0:55	1	0.200	A BB	1022.	2.017 UG/L	0.70%
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	171	2:08	1	0.462	A BB	621.	2.115 UG/L	0.73%
9	114	498	6:13	9	1.000	A BB	154722.	50.000 UG/L	17.26
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	867	10:50	21	1.000	A BB	147361.	50.000 UG/L	17.26
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	437	5:28	1	1.181	A BB	64230.	43.116 UG/L	14.88
41	95	1047	13:05	21	1.208	A BB	85537.	43.405 UG/L	14.98
42	98	673	8:25	21	0.776	A BB	146740.	49.086 UG/L	16.94

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:40	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51		10.000			50.00		0.638	
3	0:57	0.97	10.000	0.02	2.02	50.00	0.024	0.600	0.04
4	1:08		10.000			50.00		0.957	
5	1:13		10.000			50.00		0.573	
6	1:57		5.000			50.00		1.251	
7	2:04		5.000			50.00		3.119	
8	2:09	0.99	10.000	0.05	2.11	50.00	0.015	0.348	0.04
9	6:16	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	2:38		5.000			50.00		1.309	
11	2:57		5.000			50.00		1.203	
12	3:32		5.000			50.00		1.928	
13	3:48		10.000			50.00		0.497	
14	4:21		5.000			50.00		1.487	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	4:31		10.000			50.00		0.096	
16	4:54		5.000			50.00		2.453	
17	4:56		5.000			50.00		0.548	
18	5:08		5.000			50.00		0.567	
19	5:28		5.000			50.00		0.728	
20	5:37		5.000			50.00		1.733	
21	10:52	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	6:30		5.000			50.00		0.437	
23	6:51		5.000			50.00		0.295	
24	7:25		5.000			50.00		0.535	
25	8:08		5.000			50.00		0.471	
26	8:33		15.000			50.00		0.332	
27	8:32		5.000			50.00		0.602	
28	9:09		5.000			50.00		0.217	
29	9:24		5.000			50.00		0.302	
30	9:22		5.000			50.00		0.502	
31	10:01		15.000			50.00		0.192	
32	9:58		5.000			50.00		0.556	
33	10:55		5.000			50.00		0.940	
34	11:13		5.000			50.00		0.402	
35	11:27		5.000			50.00		0.700	
36	12:07		5.000			50.00		0.640	
37	12:12		5.000			50.00		1.073	
38	12:28		5.000			50.00		0.411	
39	13:41		5.000			50.00		0.439	
40	5:29	1.00	5.000	0.24	43.12	50.00	1.522	1.765	0.86
41	13:07	1.00	5.000	0.24	43.41	50.00	0.580	0.669	0.87
42	8:26	1.00	5.000	0.16	49.09	50.00	0.996	1.014	0.98

LAB INSTRUCTIONS:

INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

RECEIPT DATE 11/15/89

CASE#: 18410 5

DUE DATE:

VOA
GC/MS WORKSHEET

COMPUCHEN#: 302176

JC] J3C] DC] C : 10
J2C] J4C] D2C] C : 10

GC/MS; VOA; WATER EPA 50W 2/88

Sample Prep Code---000
Instrument Code---412
Compound List----493
Surrogate Std----394
Internal Std----036

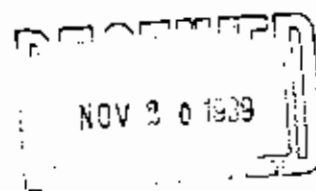
=====

SAMPLE ID#: 738001-24

=====

GC/MS ANALYSIS

Amount Purged: [] 5mls or [] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename CC891116.B18 Disk ()
Blank Filename CC891116.B18 Disk ()
Standard Filename CC891116.B18 Disk ()
Sample Filename CKNOR176.B18 Disk ()
multispl



ANALYST(S): Injection law

GC/MS REVIEW

CONDITION CODE

OK

Entry Codes OK, JB, SM, 5L, SH, JA, DA

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

Disposition: [] Complete

Extraneous Peak Search Results:
of Peaks Found: 0

[] Reinject Neat
[] Dilute (: 1)

Quality Assurance Notice(s):
Notices Required 0



COMMENTS:

GC/MS Review law Date 11/17/89 Auditor law Date 11/18/89

REPORT INTEGRATION

Final Reportable Package(s): CND-B18

Total # of Injections: 1

QA COMMENTS:

=====

INITIALS _____ DATE ____/____/____

FINAL REVIEW: INITIALS _____ DATE ____/____/____

ACI004 (05/89)

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	370	42200	50.0		
221	50	CHLOROMETHANE				BDL	10
201	62	VINYL CHLORIDE			2.0	BDL 2+	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			2.4	BDL 2+	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	498	155000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	60	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	80	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROENZENE (IS)	867	147000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
300	106	M,P-XYLENE				BDL	5
209	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#37			43.1	86. %	
247	95 S	BROMOFLUOROBENZENE			43.4	87. %	
203	98 S	D8-TOLUENE WE#59			49.1	98. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY

C. D. H. G. +
(GC/MS DATA REVIEWER)

DATE

11-27-89

CMP				QUANT	REPORTED	DETECT.
#	M/E F	COMPOUND NAME	SCAN	REPORT	AMOUNT	LIMIT
				VALUE	(UG/L)	(UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)			BDL	5
CHECKSUMS:						
		3979.	1735	344200.	289.7	275.

CORRECTED/REVIEWED BY OKL/g
(GC/MS DATA REVIEWER)DATE 11/2/89

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	43.1	50.0	86.	76-114	X	
41	247	BROMOFLUOROBENZENE	43.4	50.0	87.	86-115	X	
42	233	DB-TOLUENE WE#59	49.1	50.0	98.	88-110	X	

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

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}} = 1.00$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION B

CORRECTED/REVIEWED BY *Qu. L. G.*
 (GC/MS DATA REVIEWER)

DATE 11-17-89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-25

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 95
 Matrix: (soil/water) WATER Lab Sample ID: 302157
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002157A18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

718001-25

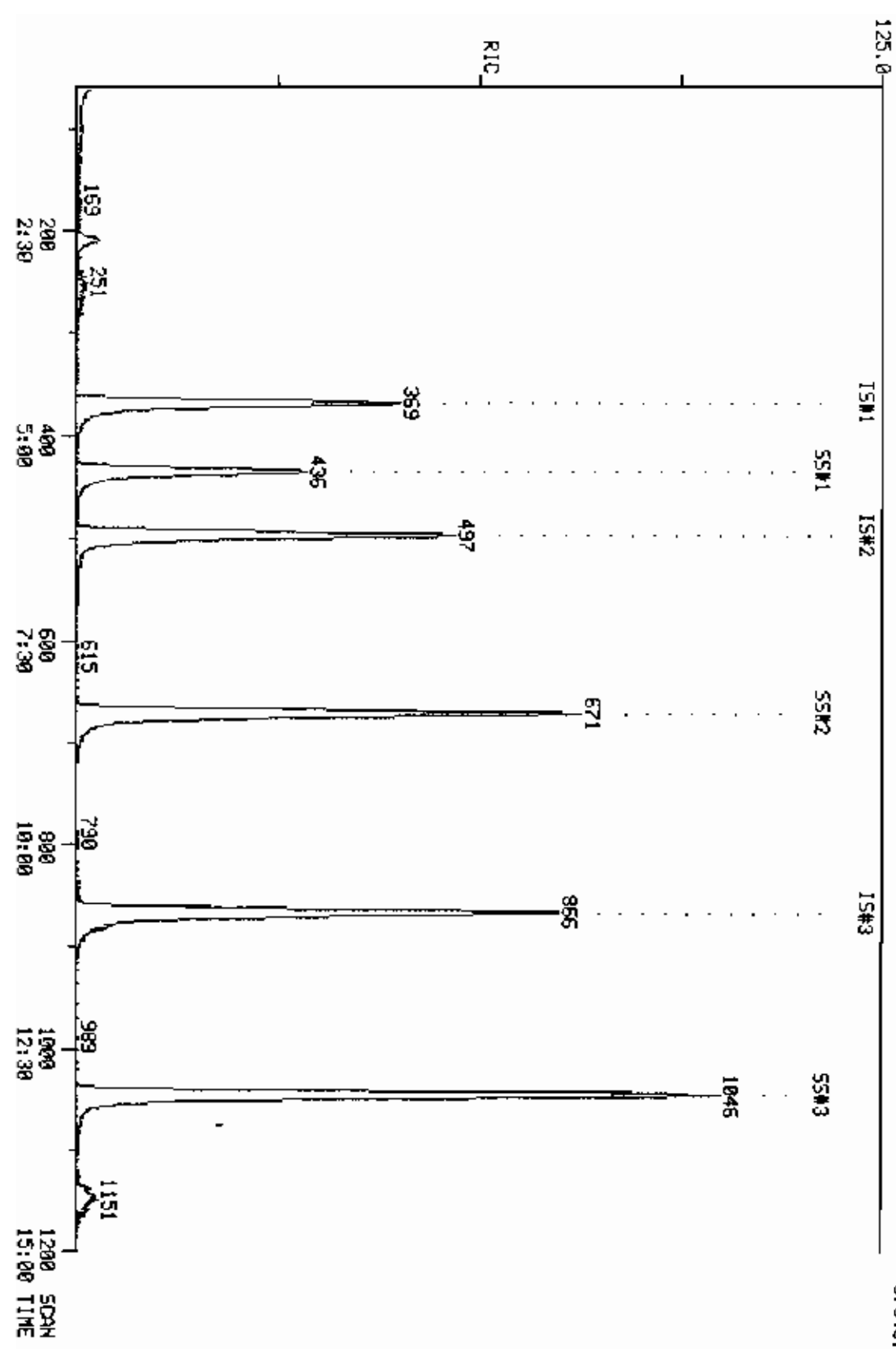
Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302157
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002157A18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
-----	-----	-----	-----	-----

RIC
 11/16/89 11:00:00
 SAMPLE: SML EPA ID#739001-25 CCM302157 CASE#19410 5 ON#18
 COND.S.:
 COMPUTHER LABS
 COMPUTHER DATA: CN002157A10 SCANS 58 TO 1200
 97040.



QUANTITATION REPORT FILE: CN002157A1B
 DATA: CN002157A1B.TI
 11/16/89 11:08:00
 SAMPLE: 5ML EPA 10#738Q01-25 CC#302157 CASE#18410 5 ON#18
 CONDS.:
 SUBMITTED BY: 18 ANALYST: 1577

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <109-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 O5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	*233 DB-TOLUENE WE#59

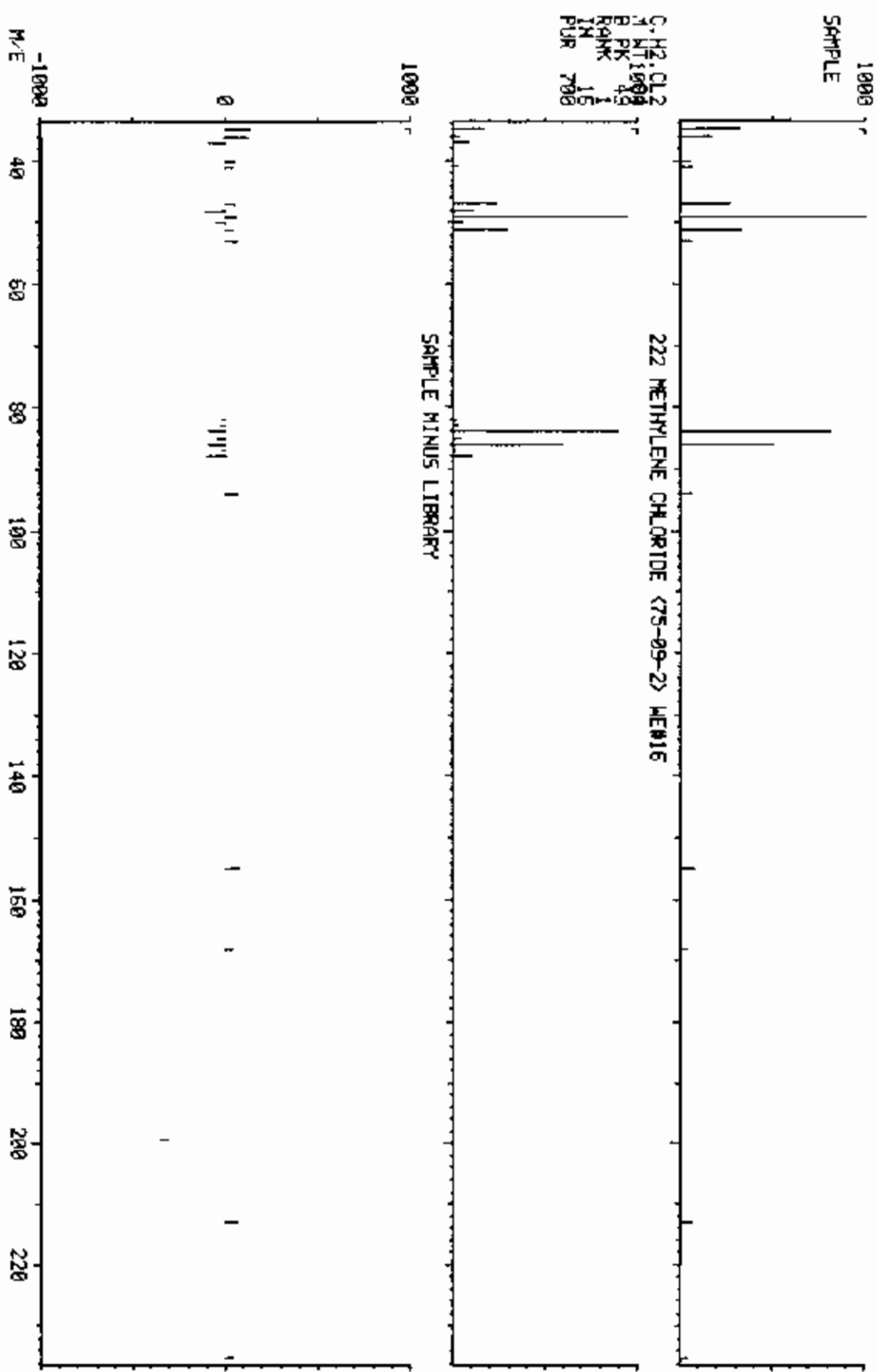
NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	%DT
1	128	368	4:36	1	1.000	A 88	39795.	50.000 UG/L	16.32
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	171	2:08	1	0.465	A BB	1179.	3.102 UG/L	1.01 <i>pc</i>
9	114	497	6:13	9	1.000	A BB	140476.	50.000 UG/L	16.32
10	84	210	2:37	1	0.571	A BB	4251.	4.015 UG/L	1.31 <i>Yes</i>
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	866	10:49	21	1.000	A BB	129605.	50.000 UG/L	16.32
22	130	NOT FOUND							
23	63	NOT FOUND							
24	03	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	436	5:27	1	1.185	A BB	64459.	48.967 UG/L	15.98
41	95	1047	13:05	21	1.209	A BB	82911.	49.175 UG/L	16.05
42	98	671	8:23	21	0.775	A BB	132930.	51.199 UG/L	16.71

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:43	0.97	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51		10.000			50.00		0.690	
3	0:58		10.000			50.00		0.593	
4	1:10		10.000			50.00		1.011	
5	1:14		10.000			50.00		0.577	
6	1:59		5.000			50.00		1.283	
7	2:07		5.000			50.00		2.964	
8	2:13	0.96	10.000	0.05	3.10	50.00	0.030	0.478	0.06
9	6:19	0.98	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	2:42	0.97	5.000	0.11	4.02	50.00	0.107	1.330	0.08
11	3:01		5.000			50.00		1.246	
12	3:36		5.000			50.00		2.057	
13	3:52		10.000			50.00		0.514	
14	4:25		5.000			50.00		1.428	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	4:37		10.000			50.00		0.098	
16	4:58		5.000			50.00		2.570	
17	5:00		5.000			50.00		0.569	
18	5:11		5.000			50.00		0.599	
19	5:31		5.000			50.00		0.768	
20	5:40		5.000			50.00		1.800	
21	10:54	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	6:34		5.000			50.00		0.460	
23	6:55		5.000			50.00		0.306	
24	7:28		5.000			50.00		0.566	
25	8:10		5.000			50.00		0.494	
26	8:36		15.000			50.00		0.345	
27	8:34		5.000			50.00		0.637	
28	9:11		5.000			50.00		0.233	
29	9:27		5.000			50.00		0.325	
30	9:25		5.000			50.00		0.485	
31	10:03		15.000			50.00		0.223	
32	10:01		5.000			50.00		0.584	
33	10:57		5.000			50.00		1.001	
34	11:14		5.000			50.00		0.432	
35	11:28		5.000			50.00		0.744	
36	12:09		5.000			50.00		0.653	
37	12:14		5.000			50.00		1.100	
38	12:29		5.000			50.00		0.429	
39	13:42		5.000			50.00		0.483	
40	5:33	0.98	5.000	0.24	48.97	50.00	1.620	1.654	0.98
41	13:07	1.00	5.000	0.24	49.17	50.00	0.640	0.650	0.98
42	8:29	0.99	5.000	0.15	51.20	50.00	1.026	1.002	1.02

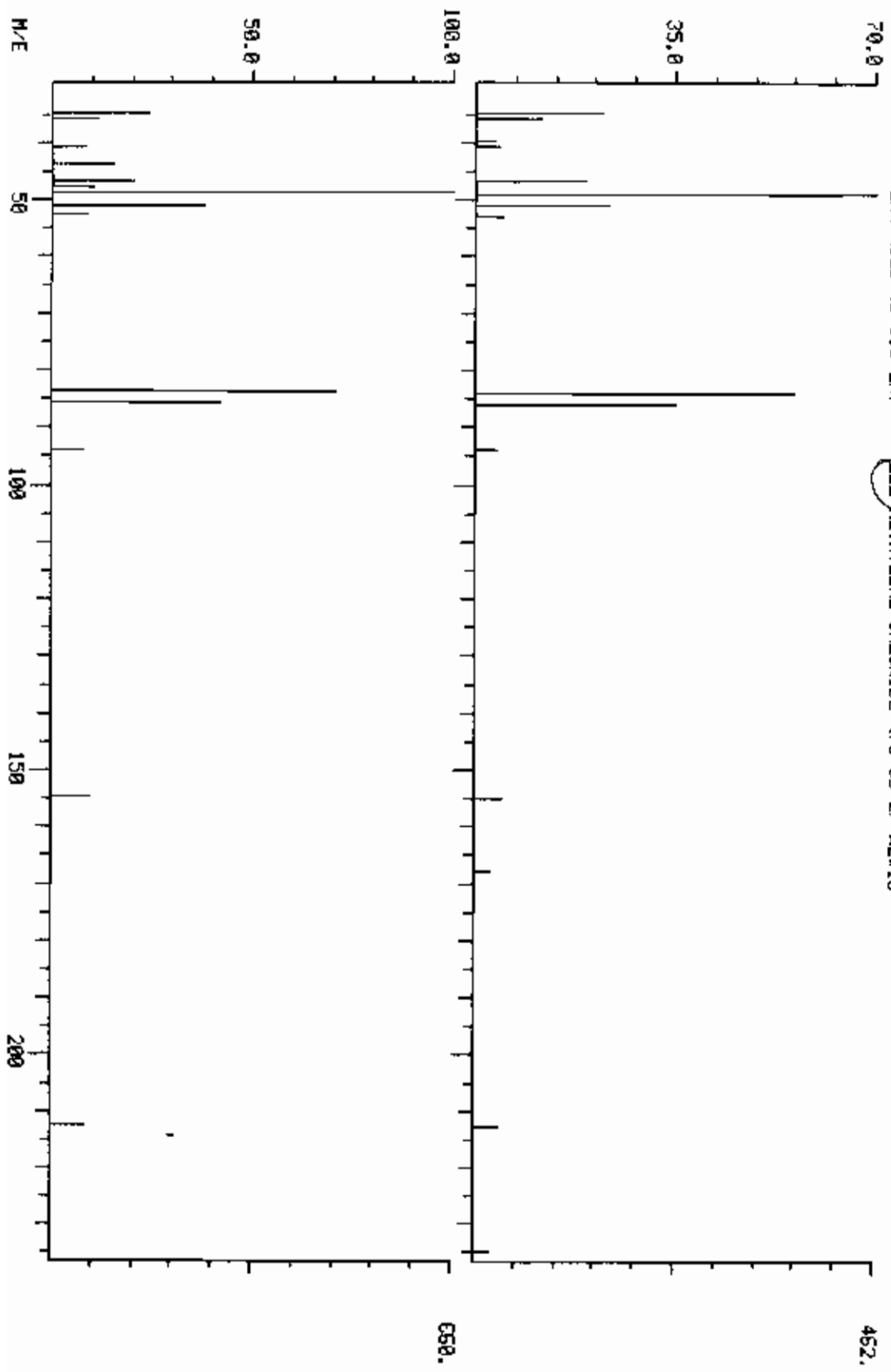
COMPUCHEM LABS
 DATA: CN002157019 # 210 BRSE M/E: 49
 11/16/89 11:00:00 + 2:37
 SAMPLE: SML EPA 101738901-25 CC#302157 CASE#18410 5 ON#19
 ENHANCED (S 15B 2N 0T) RIC: 1765.



DUAL MASS SPECTRUM
11/16/89 11:08:00 + 2:37
SAMPLE: SML EPA ID#738001-25 CC#302157 CASE#19410 5 OH#18
ENHANCED (5 150 2N) 222 METHYLENE CHLORIDE (75-09-2) ME#16

COMPUCHEM LABS

DATA: CN002157A18 #210 BASE M/E: 49/ 49
RIC: 1785, / 2479.



LAB INSTRUCTIONS:
INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

RECEIPT DATE 11/15/89 CASE#: 18410 5 DUE DATE:
VOA J[] J3[] D[] (:)
GC/MS WORKSHEET COMPUCHEM#: 302157 J2[] J4[] D2[] (:)

GC/MS; VOA; WATER EPA SOW 2/88

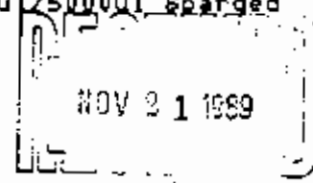
Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

=====

SAMPLE ID#: 738001-25

=====

GC/MS ANALYSIS
Amount Purged: [] 5mls or [] Dilution _____ u / 5000ul Sparged
Internal Standard Volume Added 3 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BF891116C18 Disk (/)
Blank Filename CC191116C18 Disk ()
Standard Filename CS891116C18 Disk ()
Sample Filename CND02137AIR Disk ()



ANALYST(S): Injection 1577/KC Work-up 1577

=====

GC/MS REVIEW

CONDITION
CODE

OK

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

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

Extraneous Peak Search Results:
of Peaks Found: 0

Disposition: [] Complete
[] Reinject Neat
[] Dilute (:)

Quality Assurance Notice(s):
Notices Required 0



COMMENTS:

GC/MS Review OK Date 11/22/89 Auditor SDW Date 11/21/89

=====

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CND-AIR

=====

QA COMMENTS:

Initials _____ Date ____/____/____

=====

FINAL REVIEW: Initials _____ Date ____/____/____

AC1004 (05/89)

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CHP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	368	39800	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			3.1	BDL 3.1	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	497	140000	50.0		
222	84	METHYLENE CHLORIDE			4.0	4J	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	DB-CHLOROBENZENE (IS)	866	130000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M,P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			49.0	98. X	
247	95 S	BROMOFLUOROBENZENE			49.2	98. X	
233	98 S	DB-TOLUENE WE#57			51.2	102. X	
2E9	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY

OK
(GC/MS DATA REVIEWER)

DATE

11.20.89

CMP	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)	
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL		5
CHECKSUMS:								
		3979.	1731	309800.	306.5		305.	

CORRECTED/REVIEWED BY *Ed J. J.*
(GC/MS DATA REVIEWER)DATE 11-20-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	235	D4-1,2-DICHLOROETHANE WE#57	49.0	50.0	98.	76-114	X	
41	247	BROMOFLUOROBENZENE	49.2	50.0	98.	86-115	X	
42	233	DB-TOLUENE WE#59	51.2	50.0	102.	88-110	X	

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

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{\text{VOLUME OF SAMPLE PURGED (UL)}} =$$

$$\frac{5000 \text{ UL}}{5000. \text{ (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION B

CORRECTED/REVIEWED BY OK [Signature]
 (GC/MS DATA REVIEWER)

DATE 11-20-59

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-26

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302166
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002166B18
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethane	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

738001-26

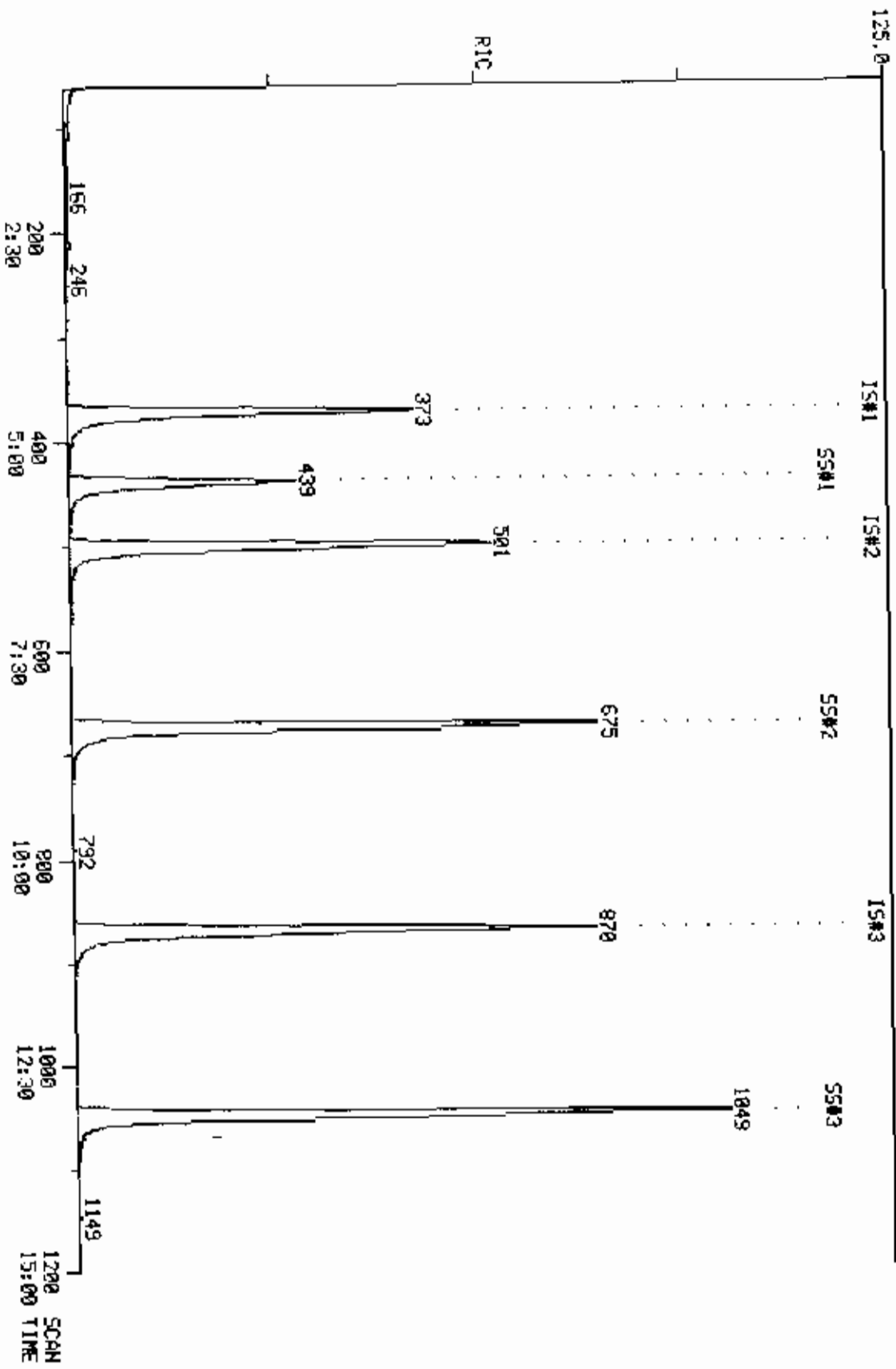
Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 302166
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN002166B1E
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

COMPUchem LABS
COMPUchem DATA: CN002166B18 SCANS 62 TO 1200

RIC
11/16/89 17:14:00
SAMPLE: SML C0# 302166 10# 738001-26 CASE# 10410 ON #18
COND5: 1
955880



QUANTITATION REPORT FILE: CN002166B19
 DATA: CN002166B19.TI
 11/16/89 17:14:00
 SAMPLE: 5ML CC# 302166 ID# 738001-26 CASE# 18410 ON #18
 CONDS.:
 SUBMITTED BY: 18 ANALYST: 1009

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*245 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D3-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE, 124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	209 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	#258 D4-1,2-DICHLOROETHANE WE#57
41	#247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	#233 D8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	ZTOT
1	128	372	4:39	1	1.000	A 88	45602.	50.000 UG/L	17.26
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	NOT FOUND							
9	114	501	6:16	9	1.000	A BB	164464.	50.000 UG/L	17.26
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	03	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	70	NOT FOUND							
20	62	NOT FOUND							
21	117	869	10:52	21	1.000	A BB	152498.	50.000 UG/L	17.26
22	130	NOT FOUND							
23	63	NOT FOUND							
24	80	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	170	NOT FOUND							
39	80	NOT FOUND							
40	65	439	5:29	1	1.180	A BB	70784.	43.980 UG/L	15.18
41	95	1049	13:07	21	1.207	A BB	90357.	44.307 UG/L	15.30
42	98	678	8:26	21	0.777	A BB	158971.	51.386 UG/L	17.74

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:40	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51		10.000			50.00		0.638	
3	0:57		10.000			50.00		0.600	
4	1:08		10.000			50.00		0.957	
5	1:13		10.000			50.00		0.573	
6	1:57		5.000			50.00		1.251	
7	2:04		5.000			50.00		3.119	
8	2:09		10.000			50.00		0.348	
9	6:16	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	2:38		5.000			50.00		1.309	
11	2:57		5.000			50.00		1.203	
12	3:32		5.000			50.00		1.928	
13	3:48		10.000			50.00		0.497	
14	4:21		5.000			50.00		1.487	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	4:31		10.000			50.00		0.096	
16	4:54		5.000			50.00		2.453	
17	4:56		5.000			50.00		0.548	
18	5:08		5.000			50.00		0.567	
19	5:28		5.000			50.00		0.728	
20	5:37		5.000			50.00		1.733	
21	10:52	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	6:30		5.000			50.00		0.437	
23	6:51		5.000			50.00		0.295	
24	7:25		5.000			50.00		0.535	
25	8:08		5.000			50.00		0.471	
26	8:33		15.000			50.00		0.332	
27	8:32		5.000			50.00		0.602	
28	9:09		5.000			50.00		0.217	
29	9:24		5.000			50.00		0.302	
30	9:22		5.000			50.00		0.502	
31	10:01		15.000			50.00		0.192	
32	9:58		5.000			50.00		0.556	
33	10:55		5.000			50.00		0.940	
34	11:13		5.000			50.00		0.402	
35	11:27		5.000			50.00		0.700	
36	12:07		5.000			50.00		0.640	
37	12:12		5.000			50.00		1.073	
38	12:28		5.000			50.00		0.411	
39	13:41		5.000			50.00		0.439	
40	5:29	1.00	5.000	0.24	43.98	50.00	1.552	1.765	0.88
41	13:07	1.00	5.000	0.24	44.31	50.00	0.593	0.669	0.89
42	8:26	1.00	5.000	0.16	51.39	50.00	1.042	1.014	1.03

LAB INSTRUCTIONS:
INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

RECEIPT DATE 11/15/89 CASE#: 18410 5 DUE DATE:
VOA J0 J J30 J D0 J (:1)
GC/MS WORKSHEET COMPUCHEM#: 302166 J20 J J40 J D20 J (:1)

GC/MS; VOA; WATER EPA 90W 2/88

Sample Prep Code---000
Instrument Code----412
Compound List-----493
Surrogate Std-----394
Internal Std-----036

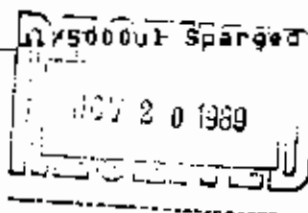
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SAMPLE ID#: 738001-26

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GC/MS ANALYSIS

Amount Purged: [] 5mls or [] Dilution 1:50000 Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename B389116A18 Disk ()
Blank Filename CC89116A18 Disk ()
Standard Filename CC89116A18 Disk ()
Sample Filename CNO02166 B18 Disk ()



ANALYST(S): Injection 1029WK Work-up 1029WK

=====

GC/MS REVIEW

CONDITION
CODE

OK

Entry Codes OK, JS, SM, 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, SM

Disposition: [] Complete
[] Reinject Neat
[] Dilute (:1)

Extraneous Peak Search Results:
of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required 0



COMMENTS:

GC/MS Review OK Date 11/17/89 Auditor SDU/1029WK Date 11/18/89

=====

REPORT INTEGRATION
Final Reportable Package(s): CNO-B18 Total # of Injections: 1

=====

QA COMMENTS:

=====

INITIALS _____ DATE ____/____/____

FINAL REVIEW: INITIALS _____ DATE ____/____/____

AC1004 (05/89)

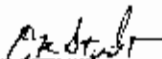
VOLATILE - MEDIUM OR LOW LEVEL LIQUID

OMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	372	45600	30.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)				BDL	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	501	164000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROBENZENE (IS)	869	152000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE .124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			44.0	88. %	
247	95 S	BROMOFLUOROBENZENE			44.3	89. %	
233	98 S	D8-TOLUENE WE#59			51.4	103. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY CRK/8/89
(GC/MS DATA REVIEWER)DATE 11/17/89

CHP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:							
	3979.		1742	361600.	289.7	280.	

CORRECTED/REVIEWED BY



(GC/MS DATA REVIEWER)

DATE

11-17-89

NO	CC ID*	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	44.0	50.0	88.	76-114	X	
41	247	BROMOFLUOROBENZENE	44.3	50.0	89.	86-115	X	
42	233	D8-TOLUENE WE#59	51.4	50.0	103.	88-110	X	

* ADVISORY SURROGATE ONLY

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

CORRECTION FACTOR CALCULATION:

5000 UL

VOLUME OF SAMPLE PURGED (UL)

5000 UL

5.000 ML

----- = 1.00 = -----

5000. (UL)

5.000 (ML)

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.
SURROGATE SPIKE CONVERSION FACTOR = 1.-----
VERSION BCORRECTED/REVIEWED BY *Dick Steiner*
(GC/MS DATA REVIEWER)DATE 11/17/89

C. STANDARDS DATA

- (1) Initial Calibration Data (Form VI VOA) - in order by instrument if more than one instrument used.
 - (a) VOA standard (a) reconstructed ion chromatograms and quantitation reports (or legible facsimile) for the initial (five point) calibration. Spectra are not required.
 - (b) All initial calibration data must be included , regardless of when it was performed and for which case. When more than one initial calibration is performed , the data must be put in chronological order , by instrument.

- (2) Continuing Calibration (Form VII VOA) - In order by instrument , if more than one instrument used.
 - (a) VOA standard (a) reconstructed ion chromatograms and quantitation reports (or legible facsimile) for all continuing (12 hour) calibrations. Spectra are not required.
 - (b) When more than one continuing calibration is performed, forms must be in chronological order , within fraction and instrument.

- (3) Internal Standard Area Summary (Form VIII VOA) - In order by instrument , if more than one instrument used.

When more than one continuing calibration is performed , forms must be in chronological order , by instrument.

- (1) Initial Calibration Data (Form VI VOA) - in order by instrument if more than one instrument used.
 - (a) VOA standard(s) reconstructed ion chromatograms and quantitation reports (or legible facsimile) for the initial (five point) calibration. Spectra are not required.
 - (b) All initial calibration data must be included, regardless of when it was performed and for which cause. When more than one initial calibration is performed, the data must be put in chronological order, by instrument.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Instrument ID: 12 Calibration Date(s): 10/19/89 10/20/89
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP
 Min RRF for SPCC(%) = 0.100 (0.250 for Bromoform) Max %RSD for CCC(*) = 10.0%

LAB FILE ID: RRF20 = CW891020C12 RRF50 = CU891019B12
 RRF100 = CU891010C12 RRF150 = CT891020C12 RRF200 = CS891020C12

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	RRF	% RSD
Chloromethane	0.912	0.723	0.535	0.746	0.899	0.761	20.2#
Bromomethane	1.209	0.961	0.682	0.918	1.171	0.988	21.6
Vinyl Chloride	1.141	0.867	0.649	0.891	1.097	0.929	21.3*
Chloroethane	0.558	0.450	0.339	0.453	0.570	0.474	19.9
Methylene Chloride	1.457	1.284	0.855	1.173	1.515	1.257	20.9
Acetone	0.283	0.288	0.175	0.260	0.289	0.259	18.7
Carbon Disulfide	4.508	3.977	2.332	3.325	5.007	3.810	27.1
1,1-Dichloroethene	1.418	1.248	0.847	1.152	1.880	1.309	29.1*
1,1-Dichloroethane	3.215	2.828	1.876	2.621	3.423	2.793	21.5#
1,2-Dichloroethene (total)	3.386	2.971	2.002	2.789	3.621	2.954	21.2
Chloroform	4.454	3.816	2.439	3.234	4.014	3.591	21.7*
1,2-Dichloroethane	3.518	3.146	2.006	2.725	3.555	2.990	21.6
2-Butanone	0.064	0.084	0.060	0.088	0.116	0.082	27.1
1,1,1-Trichloroethane	0.848	0.751	0.478	0.702	0.822	0.720	20.4
Carbon Tetrachloride	0.834	0.735	0.489	0.723	0.855	0.727	20.0
Vinyl Acetate	0.655	0.603	0.393	0.650	0.787	0.618	23.1
Bromodichloromethane	1.139	1.058	0.632	0.949	1.117	0.979	21.2
1,2-Dichloropropane	0.435	0.380	0.256	0.342	0.437	0.370	20.3*
cis-1,3-Dichloropropene	0.690	0.591	0.429	0.828	0.906	0.689	27.5
Trichloroethene	0.506	0.445	0.298	0.424	0.532	0.441	20.7
Dibromochloromethane	0.546	0.468	0.312	0.467	0.565	0.472	21.1
1,1,2-Trichloroethane	0.288	0.239	0.153	0.229	0.268	0.235	22.0
Benzene	0.779	0.675	0.456	0.659	0.822	0.678	20.9
Trans-1,3-Dichloropropene	0.367	0.304	0.220	0.339	0.407	0.327	21.7
Bromoform	0.360	0.350	0.243	0.371	0.446	0.354	20.5#
4-Methyl-2-Pentanone	0.253	0.238	0.178	0.298	0.390	0.271	29.1
2-Hexanone	0.128	0.141	0.099	0.171	0.219	0.152	30.1
Tetrachloroethane	0.630	0.554	0.348	0.468	0.595	0.519	21.8
1,1,2,2-Tetrachloroethane	0.709	0.636	0.404	0.541	0.697	0.597	21.1#
Toluene	0.909	0.756	0.530	0.758	0.968	0.784	21.7*
Chlorobenzene	1.065	0.948	0.651	0.894	1.171	0.946	20.8#
Ethylbenzene	0.522	0.439	0.299	0.409	0.522	0.438	21.1*
Styrene	1.238	1.097	0.712	1.025	1.321	1.079	21.8
Total Xylenes	1.694	1.421	0.928	1.334	1.718	1.419	22.7

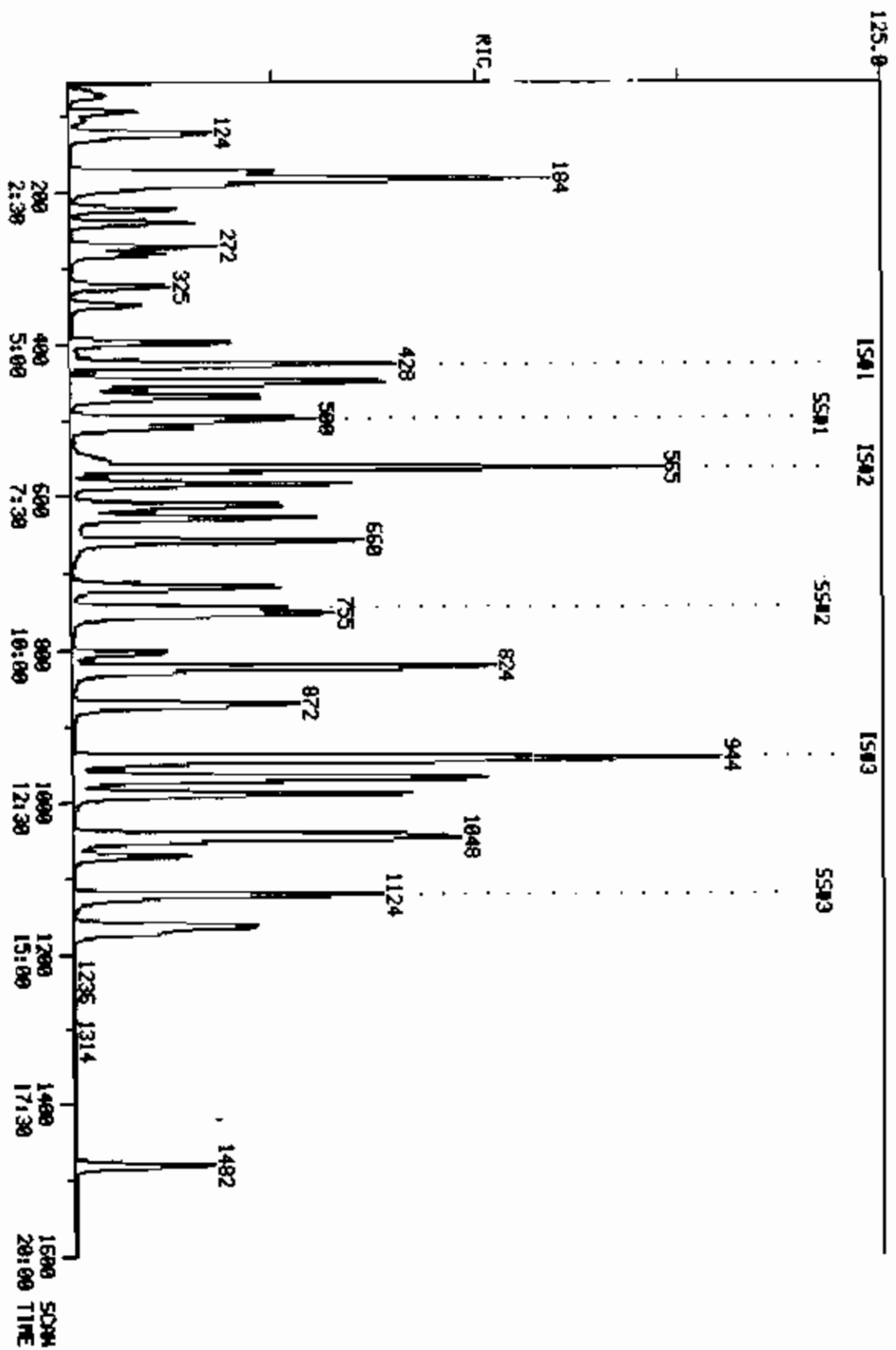
Toluene-d8	1.364	1.216	0.703	1.174	1.505	1.192	25.4
BFB	1.065	1.003	0.539	0.908	1.172	0.937	25.9
1,2-Dichloroethane-d4	3.075	2.912	1.559	2.600	3.378	2.705	25.9

COMPUCHEN LABS

COMPUCHEN DATA: 04891828C12 SCANS 59 TO 1600

RIC
18/28/89 4:15:00
SAMPLE: SWL UST0020 #1901 ON #12
CONDOS.:

142089.



QUANTITATION REPORT FILE: CMB91020C12
DATA: CMB91020C12.TI
10/20/89 4:19:00
SAMPLE: 5ML VSTD020 #1901 ON #12
CONDS.:
SUBMITTED BY: 12 ANALYST: 1539

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-9> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	234 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <78-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (IB) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYL METHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE, 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M,P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 BTYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIB-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 D4-1,2-DICHLOROETHANE WE#57
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58
 59 #233 DB-TOLUENE WE#59

Oxydant
 10-20-89

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	428	5:21	1	1.000	A BB	51109.	50.000 UG/L	2.52
2	50	68	0:51	1	0.159	A BB	18652.	25.247 UG/L	1.27
3	62	75	0:56	1	0.175	A BB	23320.	26.310 UG/L	1.33
4	94	95	1:11	1	0.222	A BB	24716.	25.159 UG/L	1.27
5	64	105	1:19	1	0.245	A BB	11405.	24.792 UG/L	1.25
6	101	124	1:33	1	0.290	A BB	106288.	35.397 UG/L	1.78
7	56	174	2:10	1	0.407	A BB	16690.	199.942 UG/L	10.08
8	96	174	2:10	1	0.407	A BB	28990.	22.717 UG/L	1.14
9	76	183	2:17	1	0.428	A BB	92159.	22.672 UG/L	1.14
10	142	184	2:18	1	0.430	A BB	83501.	24.397 UG/L	1.23
11	117	185	2:19	1	0.432	A BB	30513.	26.759 UG/L	1.35
12	85	187	2:20	1	0.437	A BB	32989.	26.266 UG/L	1.32
13	43	197	2:28	1	0.460	A VB	5780.	19.638 UG/L	0.99
14	114	565	7:04	14	1.000	A BB	268995.	50.000 UG/L	2.52
15	76	224	2:48	1	0.523	A BB	14922.	23.419 UG/L	1.18
16	84	242	3:01	1	0.565	A BB	29781.	22.695 UG/L	1.14
17	96	272	3:24	1	0.636	A BB	30890.	22.949 UG/L	1.16
18	53	282	3:31	1	0.659	A BB	44243.	211.649 UG/L	10.67
19	63	326	4:04	1	0.762	A BB	65717.	22.733 UG/L	1.15
20	43	349	4:22	14	0.618	A BB	70476.	21.729 UG/L	1.10
21	96	399	4:59	1	0.932	A BB	38337.	22.682 UG/L	1.14
22	72	413	5:10	1	0.965	A BB	1301.	15.130 UG/L	0.76
23	83	449	5:37	1	1.049	A BB	91046.	23.343 UG/L	1.18
24	97	453	5:40	14	0.802	A BB	91289.	22.600 UG/L	1.14
25	117	470	5:52	14	0.832	A VB	89777.	22.711 UG/L	1.14
26	78	498	6:13	14	0.881	A BB	83780.	23.059 UG/L	1.16
27	62	511	6:23	1	1.194	A BB	71913.	22.362 UG/L	1.13
28	70	555	6:56	14	0.982	A BV	12327.	184.810 UG/L	9.31
29	117	943	11:47	29	1.000	A BB	182023.	50.000 UG/L	2.52
30	130	585	7:19	14	1.035	A BB	54454.	22.746 UG/L	1.15
31	63	614	7:40	14	1.087	A BB	46773.	22.871 UG/L	1.15
32	174	629	7:52	1	1.470	A BB	48097.	23.169 UG/L	1.17
33	83	660	8:15	14	1.168	A BB	122587.	21.537 UG/L	1.09
34	63	715	8:56	14	1.265	A BB	16602.	22.294 UG/L	1.12
35	75	720	9:00	14	1.274	A BB	74260.	23.367 UG/L	1.18
36	43	755	9:26	29	0.801	A BB	18390.	21.209 UG/L	1.07
37	92	755	9:26	29	0.801	A BB	66181.	24.040 UG/L	1.21
38	75	804	10:03	14	1.423	A BV	39468.	24.154 UG/L	1.22
39	97	824	10:18	14	1.458	A BB	30974.	24.080 UG/L	1.21
40	69	830	10:22	29	0.880	A BB	33083.	22.584 UG/L	1.14
41	164	823	10:17	29	0.873	A BB	45857.	22.749 UG/L	1.15

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	XTOT
42	43	873	10:55	29	0.926	A BB	9308.	18.132 UG/L	0.91
43	129	871	10:53	14	1.542	A BB	58715.	23.325 UG/L	1.18
44	107	875	10:56	14	1.549	A BB	48706.	25.199 UG/L	1.27
45	112	947	11:50	29	1.004	A BB	77524.	22.452 UG/L	1.13
46	131	967	12:05	14	1.712	A BB	55213.	25.003 UG/L	1.26
47	106	971	12:08	29	1.030	A BV	38029.	23.807 UG/L	1.20
48	106	990	12:22	29	1.050	A VB	63795.	23.880 UG/L	1.20
49	106	1045	13:04	29	1.108	A BB	59575.	23.813 UG/L	1.20
50	104	1051	13:08	29	1.115	A BB	90111.	22.559 UG/L	1.14
51	173	1072	13:24	14	1.897	A BB	38706.	20.569 UG/L	1.04
52	88	1128	14:06	14	1.996	A BB	16187.	21.460 UG/L	1.08
53	110	1161	14:31	29	1.231	A BB	16561.	21.265 UG/L	1.07
54	83	1167	14:35	29	1.238	A BB	51638.	22.313 UG/L	1.12
55	93	1174	14:40	29	1.243	A BB	13363.	19.844 UG/L	1.00
56	157	1482	18:31	29	1.372	A BB	27312.	39.895 UG/L	2.01
57	65	501	6:16	1	1.171	A BB	62864.	21.118 UG/L	1.06
58	95	1123	14:02	29	1.191	A BB	77521.	21.225 UG/L	1.07
59	98	747	9:20	29	0.792	A BB	99340.	22.438 UG/L	1.13

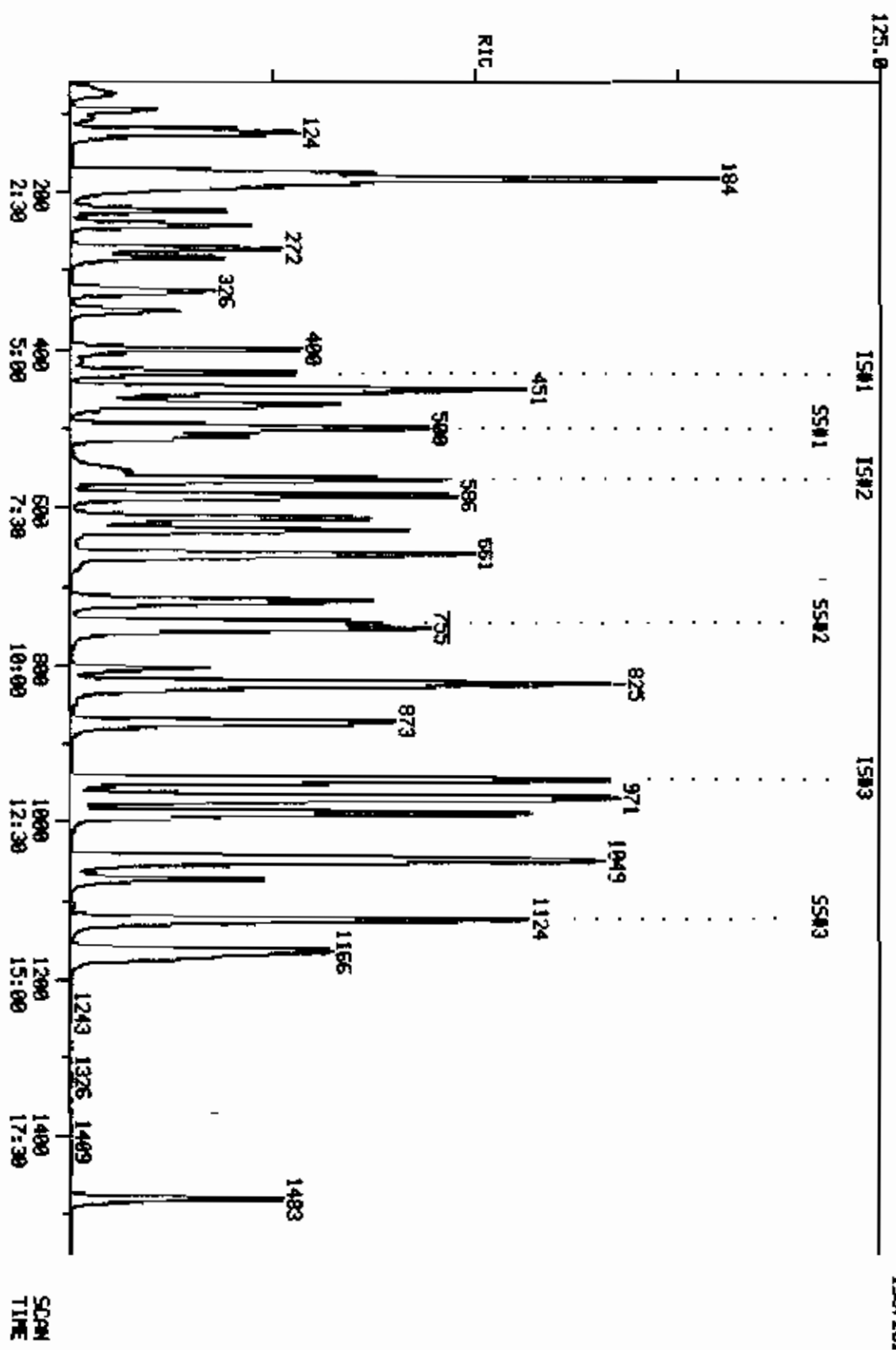
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	0:22	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:52	0.97	10.000	0.02	25.25	50.00	0.365	0.723	0.50
3	0:57	0.99	10.000	0.02	26.31	50.00	0.456	0.867	0.53
4	1:11	1.00	10.000	0.02	25.16	50.00	0.484	0.961	0.50
5	1:20	0.98	10.000	0.02	24.79	50.00	0.223	0.450	0.50
6	1:32	1.01	10.000	0.03	35.40	50.00	2.080	2.938	0.71
7	2:12	0.99	100.000	0.00	199.94	500.01	0.033	0.082	0.40
8	2:11	0.99	5.000	0.08	22.72	50.00	0.567	1.248	0.45
9	2:17	1.00	5.000	0.09	22.67	50.00	1.803	3.977	0.45
10	2:18	1.00	10.000	0.04	24.40	50.00	1.634	3.348	0.49
11	2:19	1.00	10.000	0.04	26.76	50.00	0.597	1.116	0.54
12	2:20	1.00	10.000	0.04	26.27	50.00	0.645	1.229	0.53
13	2:29	0.99	10.000	0.05	19.64	50.00	0.113	0.288	0.39
14	7:04	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	2:48	1.00	10.000	0.05	23.42	50.00	0.292	0.623	0.47
16	3:01	1.00	5.000	0.11	22.70	50.00	0.583	1.284	0.45
17	3:24	1.00	5.000	0.13	22.95	50.00	0.604	1.317	0.46
18	3:33	0.99	100.000	0.01	211.65	500.01	0.087	0.205	0.42
19	4:04	1.00	5.000	0.15	22.73	50.00	1.286	2.828	0.45
20	4:23	0.99	10.000	0.06	21.73	50.00	0.262	0.603	0.43
21	5:00	1.00	5.000	0.19	22.68	50.00	0.750	1.694	0.45
22	5:12	0.99	10.000	0.10	15.13	50.00	0.025	0.084	0.30
23	5:37	1.00	5.000	0.21	23.34	50.00	1.781	3.816	0.47
24	5:40	1.00	5.000	0.16	22.60	50.00	0.339	0.751	0.45
25	5:52	1.00	5.000	0.17	22.71	50.00	0.334	0.735	0.45
26	6:14	1.00	5.000	0.18	23.06	50.00	0.311	0.679	0.46
27	6:23	1.00	5.000	0.24	22.36	50.00	1.407	3.146	0.45
28	6:58	1.00	100.000	0.01	184.81	500.01	0.005	0.012	0.37
29	11:49	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	7:19	1.00	5.000	0.21	22.75	50.00	0.202	0.445	0.45
31	7:41	1.00	5.000	0.22	22.87	50.00	0.174	0.380	0.46
32	7:52	1.00	5.000	0.29	23.17	50.00	0.941	2.031	0.46
33	8:16	1.00	5.000	0.23	21.54	50.00	0.456	1.058	0.43
34	8:57	1.00	10.000	0.13	22.29	50.00	0.062	0.138	0.45
35	9:01	1.00	5.000	0.25	23.37	50.00	0.276	0.591	0.47
36	9:26	1.00	10.000	0.08	21.21	50.00	0.101	0.238	0.42

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	9:26	1.00	5.000	0.16	24.04	50.00	0.364	0.756	0.48
38	10:03	1.00	5.000	0.28	24.15	50.00	0.147	0.304	0.48
39	10:19	1.00	5.000	0.29	24.08	50.00	0.115	0.239	0.48
40	10:22	1.00	10.000	0.09	22.58	50.00	0.182	0.402	0.45
41	10:18	1.00	5.000	0.17	22.75	50.00	0.252	0.554	0.45
42	10:55	1.00	10.000	0.09	18.13	50.00	0.051	0.141	0.36
43	10:54	1.00	5.000	0.31	23.32	50.00	0.218	0.468	0.47
44	10:57	1.00	5.000	0.31	25.16	50.00	0.181	0.360	0.50
45	11:52	1.00	5.000	0.20	22.45	50.00	0.426	0.948	0.45
46	12:06	1.00	5.000	0.34	25.00	50.00	0.205	0.410	0.50
47	12:09	1.00	5.000	0.21	23.81	50.00	0.209	0.439	0.48
48	12:23	1.00	5.000	0.21	23.88	50.00	0.350	0.734	0.48
49	13:04	1.00	5.000	0.22	23.81	50.00	0.327	0.687	0.48
50	13:08	1.00	5.000	0.22	22.56	50.00	0.495	1.097	0.45
51	13:25	1.00	5.000	0.38	20.57	50.00	0.144	0.350	0.41
52	14:06	1.00	10.000	0.20	21.46	50.00	0.060	0.140	0.43
53	14:31	1.00	10.000	0.12	21.26	50.00	0.091	0.214	0.43
54	14:36	1.00	5.000	0.25	22.31	50.00	0.284	0.636	0.45
55	14:41	1.00	10.000	0.12	19.84	50.00	0.073	0.185	0.40
56	18:32	1.00	10.000	0.16	39.90	100.00	0.075	0.188	0.40
57	6:16	1.00	5.000	0.23	21.12	50.00	1.230	2.912	0.42
58	14:03	1.00	5.000	0.24	21.22	50.00	0.426	1.003	0.42
59	9:20	1.00	5.000	0.16	22.44	50.00	0.546	1.216	0.45

RIC
 10/19/89 23:18:00
 SAMPLE: 5 ML UST0050 STD# 1902 ON 12
 COND5:

COMPUCHEN LABS
 COMPUCHEN DATA: 01891019812 SQMS 60 TO 1550

198720.



QUANTITATION REPORT FILE: C0891019B12
DATA: C0891019B12.TI
10/19/89 23:18:00
SAMPLE: 5 ML VSTD050 STD# 1902 DN 12
CONDS.:
SUBMITTED BY: 12 ANALYST: 1497

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-93-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACRYLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CRDONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
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31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYL METHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE ,124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M,P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 D4-1,2-DICHLOROETHANE WE#57
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58
 59 #233 D6-TOLUENE WE#59

OK Start
 10/20/89

NO	M/E	SCAN	TIME	REF	RAT	METH	AREA (HGT)	AMOUNT	XTOT
1	128	429	5:22	1	1.000	A BB	47406.	50.000 UG/L	1.14
2	50	70	0:52	1	0.163	A BB	34263.	50.000 UG/L	1.14
3	62	76	0:57	1	0.177	A BB	41106.	50.000 UG/L	1.14
4	94	95	1:11	1	0.221	A BB	45560.	50.000 UG/L	1.14
5	64	107	1:20	1	0.249	A BB	21335.	50.000 UG/L	1.14
6	101	124	1:33	1	0.289	A BB	238192.	85.520 UG/L	1.95
7	56	176	2:12	1	0.410	A BB	38714.	500.013 UG/L	11.40
8	96	175	2:11	1	0.408	A BB	59184.	50.000 UG/L	1.14
9	76	183	2:17	1	0.427	A BB	188521.	50.000 UG/L	1.14
10	142	184	2:18	1	0.429	A BB	158733.	50.000 UG/L	1.14
11	117	185	2:19	1	0.431	A BB	52884.	50.000 UG/L	1.14
12	85	187	2:20	1	0.436	A BB	58247.	50.000 UG/L	1.14
13	43	199	2:29	1	0.464	A UB	13650.	50.000 UG/L	1.14
14	114	566	7:04	14	1.000	A BB	242847.	50.000 UG/L	1.14
15	76	224	2:48	1	0.522	A BU	29551.	50.000 UG/L	1.14
16	84	242	3:01	1	0.564	A BB	60857.	50.000 UG/L	1.14
17	96	272	3:24	1	0.634	A BB	62425.	50.000 UG/L	1.14
18	53	284	3:33	1	0.662	A BB	96949.	500.012 UG/L	11.40
19	63	326	4:04	1	0.760	A BB	134067.	50.000 UG/L	1.14
20	43	351	4:23	14	0.620	A BB	146407.	50.000 UG/L	1.14
21	96	400	5:00	1	0.932	A BB	78388.	50.000 UG/L	1.14
22	72	416	5:12	1	0.970	A BB	3988.	50.000 UG/L	1.14
23	83	449	5:37	1	1.047	A BB	180886.	50.000 UG/L	1.14
24	97	453	5:40	14	0.800	A BB	182330.	50.000 UG/L	1.14
25	117	470	5:52	14	0.830	A UB	178436.	50.000 UG/L	1.14
26	78	499	6:14	14	0.882	A BB	164004.	50.000 UG/L	1.14
27	62	511	6:23	1	1.191	A BB	149142.	50.000 UG/L	1.14
28	70	557	6:58	14	0.984	A BU	30109.	500.012 UG/L	11.40
29	117	945	11:49	29	1.000	A BB	155146.	50.000 UG/L	1.14
30	130	586	7:19	14	1.035	A BB	108065.	50.000 UG/L	1.14
31	63	615	7:41	14	1.087	A BB	92314.	50.000 UG/L	1.14
32	174	630	7:52	1	1.469	A BB	96277.	50.000 UG/L	1.14
33	83	661	8:16	14	1.168	A BB	256934.	50.000 UG/L	1.14
34	63	716	8:57	14	1.265	A BB	33615.	50.000 UG/L	1.14
35	75	721	9:01	14	1.274	A BB	143453.	50.000 UG/L	1.14
36	43	755	9:26	29	0.799	A BB	36953.	50.000 UG/L	1.14
37	92	755	9:26	29	0.799	A BB	117323.	50.000 UG/L	1.14
38	75	804	10:03	14	1.420	A BB	73760.	50.000 UG/L	1.14
39	97	825	10:19	14	1.458	A BB	58062.	50.000 UG/L	1.14
40	69	830	10:22	29	0.878	A BB	62428.	50.000 UG/L	1.14
41	164	824	10:18	29	0.872	4 BB	85906.	50.000 UG/L	1.14

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	XTOT
42	43	873	10:55	29	0.924	A BB	21877.	50.000 UG/L	1.14
43	129	872	10:54	14	1.541	A BB	113630.	50.000 UG/L	1.14
44	107	876	10:57	14	1.548	A BB	87388.	50.000 UG/L	1.14
45	112	949	11:52	29	1.004	A BB	147149.	50.000 UG/L	1.14
46	131	968	12:06	14	1.710	A BB	99680.	50.000 UG/L	1.14
47	106	972	12:09	29	1.029	A BV	68077.	50.000 UG/L	1.14
48	106	991	12:23	29	1.049	A VS	113853.	50.000 UG/L	1.14
49	106	1046	13:04	29	1.107	A BB	106619.	50.000 UG/L	1.14
50	104	1051	13:08	29	1.112	A BB	170232.	50.000 UG/L	1.14
51	173	1073	13:25	14	1.896	A BB	84944.	50.000 UG/L	1.14
52	88	1128	14:06	14	1.993	A BB	34048.	50.000 UG/L	1.14
53	110	1162	14:31	29	1.230	A BB	33190.	50.000 UG/L	1.14
54	83	1168	14:36	29	1.236	A BB	98627.	50.000 UG/L	1.14
55	53	1175	14:41	29	1.243	A BB	28698.	50.000 UG/L	1.14
56	197	1483	16:32	29	1.569	A BB	58351.	100.000 UG/L	2.28
57	63	502	6:16	1	1.170	A BB	138058.	50.000 UG/L	1.14
58	95	1124	14:03	29	1.189	A BB	153655.	50.000 UG/L	1.14
59	98	747	9:20	29	0.790	A BB	188677.	50.000 UG/L	1.14

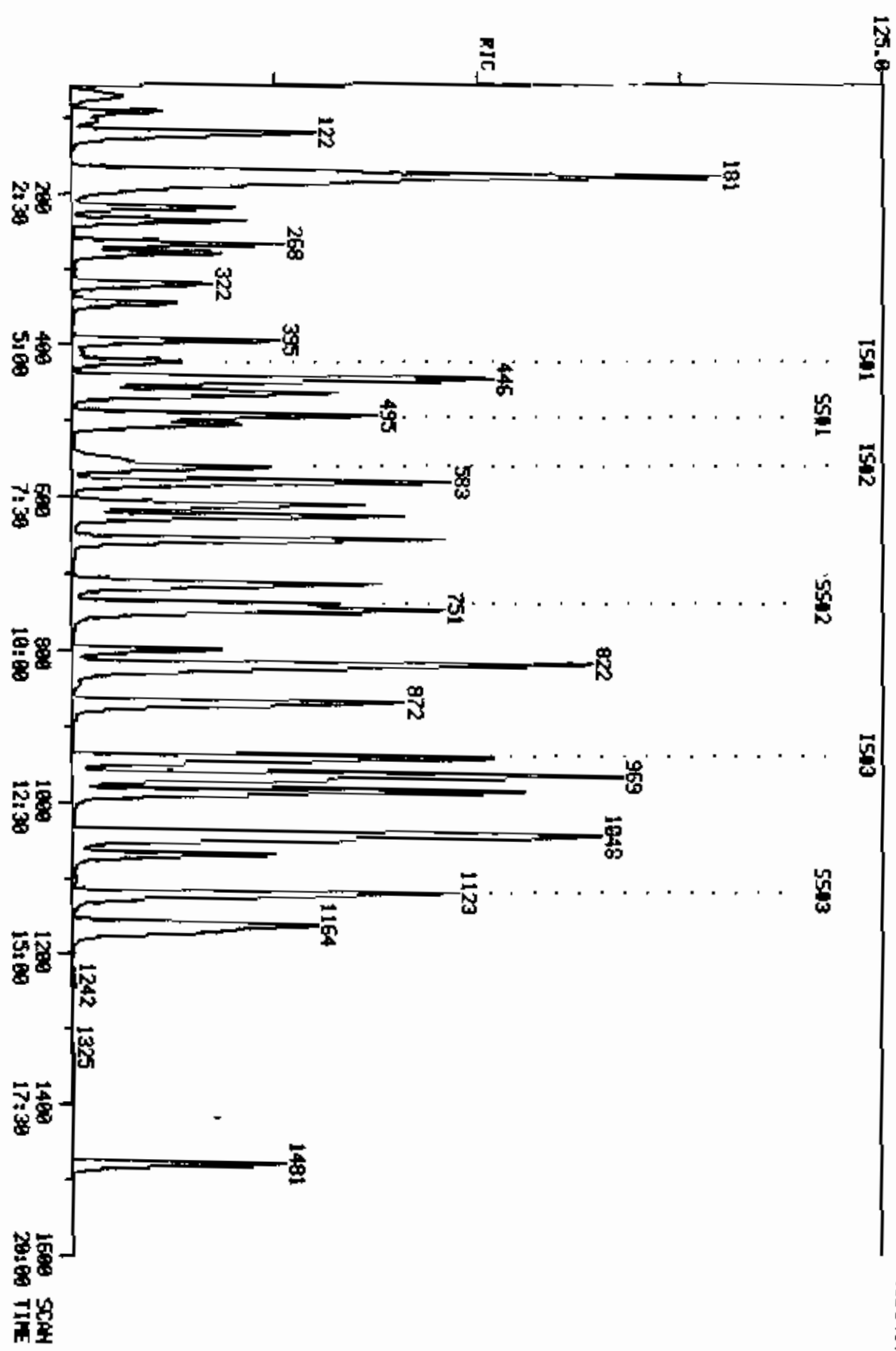
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	5:22	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:52	1.00	10.000	0.02	50.00	50.00	0.723	0.723	1.00
3	0:57	1.00	10.000	0.02	50.00	50.00	0.867	0.867	1.00
4	1:11	1.00	10.000	0.02	50.00	50.00	0.961	0.961	1.00
5	1:20	1.00	10.000	0.02	50.00	50.00	0.450	0.450	1.00
6	1:32	1.01	10.000	0.03	85.52	50.00	5.025	2.938	1.71
7	2:12	1.00	100.000	0.00	500.01	500.01	0.082	0.082	1.00
8	2:11	1.00	5.000	0.08	50.00	50.00	1.248	1.248	1.00
9	2:17	1.00	5.000	0.09	50.00	50.00	3.977	3.977	1.00
10	2:18	1.00	10.000	0.04	50.00	50.00	3.348	3.348	1.00
11	2:19	1.00	10.000	0.04	50.00	50.00	1.116	1.116	1.00
12	2:20	1.00	10.000	0.04	50.00	50.00	1.229	1.229	1.00
13	2:29	1.00	10.000	0.05	50.00	50.00	0.288	0.288	1.00
14	7:04	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	2:48	1.00	10.000	0.05	50.00	50.00	0.623	0.623	1.00
16	3:01	1.00	5.000	0.11	50.00	50.00	1.284	1.284	1.00
17	3:24	1.00	5.000	0.13	50.00	50.00	1.317	1.317	1.00
18	3:33	1.00	100.000	0.01	500.01	500.01	0.205	0.205	1.00
19	4:04	1.00	5.000	0.15	50.00	50.00	2.828	2.828	1.00
20	4:23	1.00	10.000	0.06	50.00	50.00	0.603	0.603	1.00
21	5:00	1.00	5.000	0.19	50.00	50.00	1.654	1.654	1.00
22	5:12	1.00	10.000	0.10	50.00	50.00	0.084	0.084	1.00
23	5:37	1.00	5.000	0.21	50.00	50.00	3.816	3.816	1.00
24	5:40	1.00	5.000	0.16	50.00	50.00	0.751	0.751	1.00
25	5:52	1.00	5.000	0.17	50.00	50.00	0.735	0.735	1.00
26	6:14	1.00	5.000	0.18	50.00	50.00	0.675	0.675	1.00
27	6:23	1.00	5.000	0.24	50.00	50.00	3.146	3.146	1.00
28	6:58	1.00	100.000	0.01	500.01	500.01	0.012	0.012	1.00
29	11:49	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	7:19	1.00	5.000	0.21	50.00	50.00	0.445	0.445	1.00
31	7:41	1.00	5.000	0.22	50.00	50.00	0.380	0.380	1.00
32	7:52	1.00	5.000	0.29	50.00	50.00	2.031	2.031	1.00
33	8:16	1.00	5.000	0.23	50.00	50.00	1.058	1.058	1.00
34	8:57	1.00	10.000	0.13	50.00	50.00	0.138	0.138	1.00
35	9:01	1.00	5.000	0.25	50.00	50.00	0.591	0.591	1.00
36	9:26	1.00	10.000	0.08	50.00	50.00	0.238	0.238	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	9:26	1.00	5.000	0.16	50.00	50.00	0.756	0.756	1.00
38	10:03	1.00	5.000	0.28	50.00	50.00	0.304	0.304	1.00
39	10:19	1.00	5.000	0.29	50.00	50.00	0.239	0.239	1.00
40	10:22	1.00	10.000	0.09	50.00	50.00	0.402	0.402	1.00
41	10:18	1.00	5.000	0.17	50.00	50.00	0.554	0.554	1.00
42	10:55	1.00	10.000	0.09	50.00	50.00	0.141	0.141	1.00
43	10:54	1.00	5.000	0.31	50.00	50.00	0.468	0.468	1.00
44	10:57	1.00	5.000	0.31	50.00	50.00	0.360	0.360	1.00
45	11:52	1.00	5.000	0.20	50.00	50.00	0.948	0.948	1.00
46	12:06	1.00	5.000	0.34	50.00	50.00	0.410	0.410	1.00
47	12:09	1.00	5.000	0.21	50.00	50.00	0.439	0.439	1.00
48	12:23	1.00	5.000	0.21	50.00	50.00	0.734	0.734	1.00
49	13:04	1.00	5.000	0.22	50.00	50.00	0.687	0.687	1.00
50	13:08	1.00	5.000	0.22	50.00	50.00	1.097	1.097	1.00
51	13:25	1.00	5.000	0.38	50.00	50.00	0.350	0.350	1.00
52	14:06	1.00	10.000	0.20	50.00	50.00	0.140	0.140	1.00
53	14:31	1.00	10.000	0.12	50.00	50.00	0.214	0.214	1.00
54	14:36	1.00	5.000	0.25	50.00	50.00	0.636	0.636	1.00
55	14:41	1.00	10.000	0.12	50.00	50.00	0.185	0.185	1.00
56	18:32	1.00	10.000	0.16	100.00	100.00	0.188	0.188	1.00
57	6:16	1.00	5.000	0.23	50.00	50.00	2.912	2.912	1.00
58	14:03	1.00	5.000	0.24	50.00	50.00	1.003	1.003	1.00
59	9:20	1.00	5.000	0.16	50.00	50.00	1.216	1.216	1.00

COMPUCHEN L985
COMPUCHEN DATA: C0891020C12 SCANS 59 TO 1600

RIC
10/28/89 2:35:00
SAMPLE: SWL UST0100 #1980 ON #12
CONDOS.:

439040.



QUANTITATION REPORT FILE: CUB91020C12
DATA: CUB91020C12.TI
10/20/89 2:35:00
SAMPLE: 5ML VSTD100 #19D3 ON #12
CONDS.:
SUBMITTED BY: 12 ANALYST: 1539

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (18) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <75-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (18) <340-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (18) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	228 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	267 ETHYL METHACRYLATE <96-18-4> WE#40
41	224 7ETACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M,P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 291 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 C16-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 D4-1,2-DICHLORODETHANE WE#57
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58
 59 #233 D8-TOLUENE WE#59

OK Study
 10-20-87

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGT)	AMOUNT	XTOT
1	128	423	5:17	1	1.000	A BB	51517.	50.000 UG/L	0.58
2	50	69	0:52	1	0.163	A BB	82746.	111.115 UG/L	1.30
3	62	75	0:56	1	0.177	A BB	100263.	112.225 UG/L	1.31
4	94	94	1:10	1	0.222	A BB	105337.	106.377 UG/L	1.24
5	64	105	1:19	1	0.248	A BB	52456.	113.124 UG/L	1.32
6	101	122	1:31	1	0.288	A BB	580573.	191.814 UG/L	2.24
7	96	175	2:11	1	0.414	A BB	71537.	850.210 UG/L	9.91
8	96	171	2:08	1	0.404	A BB	130927.	101.784 UG/L	1.19
9	76	180	2:15	1	0.426	A BB	360370.	87.951 UG/L	1.03
10	142	181	2:16	1	0.428	A BB	335633.	97.286 UG/L	1.13
11	117	182	2:16	1	0.430	A BB	119312.	103.804 UG/L	1.21
12	85	184	2:18	1	0.435	A BB	135231.	106.821 UG/L	1.25
13	43	199	2:29	1	0.470	A VB	27112.	91.386 UG/L	1.07
14	114	562	7:01	14	1.000	A BB	268685.	50.000 UG/L	0.58
15	76	220	2:45	1	0.520	A BB	71061.	110.640 UG/L	1.29
16	84	239	2:59	1	0.565	A BB	132096.	99.869 UG/L	1.16
17	96	268	3:21	1	0.634	A BB	140562.	103.601 UG/L	1.21
18	53	280	3:30	1	0.662	A BB	208427.	989.173 UG/L	11.53
19	63	322	4:01	1	0.761	A BB	290014.	99.529 UG/L	1.16
20	43	346	4:19	14	0.616	A BB	317157.	97.897 UG/L	1.14
21	96	396	4:57	1	0.936	A BB	168919.	99.148 UG/L	1.16
22	72	411	5:08	1	0.972	A VB	9338.	107.734 UG/L	1.26
23	83	445	5:34	1	1.052	A BB	376943.	95.879 UG/L	1.12
24	97	448	5:36	14	0.797	A BB	365206.	95.476 UG/L	1.11
25	117	465	5:49	14	0.827	A VB	394545.	99.925 UG/L	1.17
26	78	494	6:10	14	0.879	A BB	367281.	101.205 UG/L	1.18
27	62	507	6:20	1	1.199	A VB	310018.	95.640 UG/L	1.12
28	70	554	6:55	14	0.986	A BB	71636.	1078.230 UG/L	12.57
29	117	943	11:47	29	1.000	A BB	173410.	50.000 UG/L	0.58
30	130	583	7:17	14	1.037	A BB	240204.	100.451 UG/L	1.17
31	63	612	7:39	14	1.089	A BB	206267.	100.977 UG/L	1.18
32	174	627	7:50	1	1.482	A BB	211964.	101.296 UG/L	1.18
33	83	658	8:13	14	1.171	A BB	509602.	89.633 UG/L	1.05
34	63	711	8:53	14	1.265	A BB	79879.	107.389 UG/L	1.25
35	75	717	8:58	14	1.276	A BB	345432.	108.821 UG/L	1.27
36	43	752	9:24	29	0.797	A BB	92774.	112.309 UG/L	1.31
37	92	751	9:23	29	0.796	A BB	275730.	105.133 UG/L	1.23
38	75	801	10:01	14	1.425	A BB	177097.	108.505 UG/L	1.27
39	97	823	10:17	14	1.464	A BB	123723.	96.298 UG/L	1.12
40	69	828	10:21	29	0.878	A BB	162513.	116.452 UG/L	1.36
41	164	821	10:16	29	0.871	A BB	181048.	94.278 UG/L	1.10

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
42	43	870	10:52	29	0.923	A BB	51363.	105.437 UG/L	1.23
43	129	870	10:52	14	1.548	A BB	251577.	100.055 UG/L	1.17
44	107	874	10:55	14	1.555	A BB	197934.	102.360 UG/L	1.19
45	112	947	11:50	29	1.004	A BB	338573.	102.928 UG/L	1.20
46	131	966	12:04	14	1.719	A BB	216567.	98.185 UG/L	1.14
47	106	971	12:08	29	1.030	A BV	155522.	102.196 UG/L	1.19
48	106	989	12:22	29	1.049	A VB	254070.	99.827 UG/L	1.16
49	106	1044	13:03	29	1.107	A BB	229090.	96.119 UG/L	1.12
50	104	1050	13:07	29	1.113	A BB	370275.	97.302 UG/L	1.13
51	173	1071	13:23	14	1.906	A BB	195524.	104.022 UG/L	1.21
52	88	1127	14:05	14	2.005	A BB	73620.	97.716 UG/L	1.14
53	110	1161	14:31	29	1.231	A BB	72653.	97.923 UG/L	1.14
54	83	1166	14:34	29	1.236	A BB	210138.	95.312 UG/L	1.11
55	53	1173	14:40	29	1.244	A BB	61361.	95.649 UG/L	1.12
56	157	1481	18:31	29	1.571	A BB	126302.	193.656 UG/L	2.26
57	65	497	6:13	1	1.175	A BB	240896.	80.283 UG/L	0.94
58	95	1122	14:01	29	1.190	A BB	280191.	80.525 UG/L	0.94
59	98	743	9:17	29	0.788	A BB	365634.	86.689 UG/L	1.01

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	5:22	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:52	0.99	10.000	0.02	111.12	50.00	1.606	0.723	2.22
3	0:57	0.99	10.000	0.02	112.22	50.00	1.946	0.867	2.24
4	1:11	0.99	10.000	0.02	106.38	50.00	2.045	0.961	2.13
5	1:20	0.98	10.000	0.02	113.12	50.00	1.018	0.450	2.26
6	1:32	0.99	10.000	0.03	191.81	50.00	11.270	2.938	3.84
7	2:12	0.99	100.000	0.00	850.21	500.01	0.139	0.082	1.70
8	2:11	0.98	5.000	0.08	101.78	50.00	2.941	1.248	2.04
9	2:17	0.98	5.000	0.09	87.95	50.00	6.995	3.977	1.76
10	2:18	0.98	10.000	0.04	97.29	50.00	6.515	3.348	1.95
11	2:19	0.98	10.000	0.04	103.80	50.00	2.316	1.116	2.08
12	2:20	0.98	10.000	0.04	106.82	50.00	2.625	1.229	2.14
13	2:29	1.00	10.000	0.05	91.39	50.00	0.526	0.288	1.83
14	7:04	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	2:48	0.98	10.000	0.05	110.64	50.00	1.379	0.623	2.21
16	3:01	0.99	5.000	0.11	99.87	50.00	2.564	1.284	2.00
17	3:24	0.99	5.000	0.13	103.60	50.00	2.728	1.317	2.07
18	3:33	0.99	100.000	0.01	989.17	500.01	0.405	0.205	1.98
19	4:04	0.99	5.000	0.15	99.53	50.00	5.629	2.828	1.99
20	4:23	0.99	10.000	0.06	97.90	50.00	1.180	0.603	1.96
21	5:00	0.99	5.000	0.19	99.15	50.00	3.279	1.654	1.98
22	5:12	0.99	10.000	0.10	107.73	50.00	0.181	0.084	2.15
23	5:37	0.99	5.000	0.21	95.88	50.00	7.317	3.816	1.92
24	5:40	0.99	5.000	0.16	95.48	50.00	1.434	0.751	1.91
25	5:52	0.99	5.000	0.17	99.92	50.00	1.468	0.735	2.00
26	6:14	0.99	5.000	0.18	101.21	50.00	1.367	0.675	2.02
27	6:23	0.99	5.000	0.24	95.64	50.00	6.018	3.146	1.91
28	6:58	0.99	100.000	0.01	1078.23	500.01	0.027	0.012	2.16
29	11:49	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	7:19	0.99	5.000	0.21	100.45	50.00	0.894	0.445	2.01
31	7:41	1.00	5.000	0.22	100.98	50.00	0.768	0.380	2.02
32	7:52	1.00	5.000	0.30	101.30	50.00	4.114	2.031	2.03
33	8:16	1.00	5.000	0.23	89.63	50.00	1.897	1.058	1.79
34	8:57	0.99	10.000	0.13	107.39	50.00	0.297	0.138	2.15
35	9:01	0.99	5.000	0.26	108.82	50.00	1.286	0.591	2.18
36	9:26	1.00	10.000	0.08	112.31	50.00	0.535	0.238	2.25

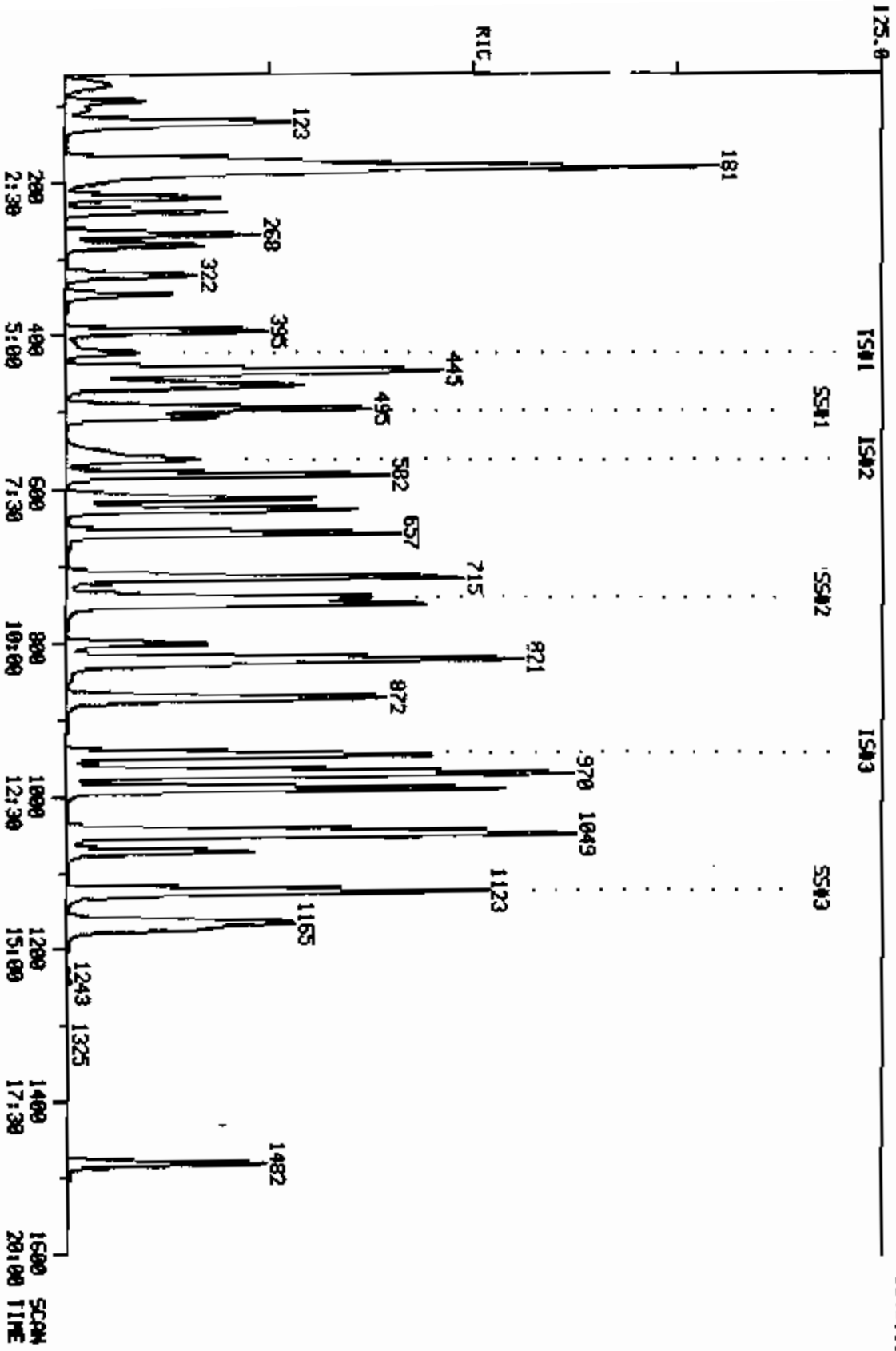
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	9:26	0.99	5.000	0.16	103.13	50.00	1.590	0.756	2.10
38	10:03	1.00	5.000	0.29	108.50	50.00	0.659	0.304	2.17
39	10:19	1.00	5.000	0.29	96.30	50.00	0.460	0.239	1.93
40	10:22	1.00	10.000	0.09	116.45	50.00	0.937	0.402	2.33
41	10:18	1.00	5.000	0.17	94.28	50.00	1.044	0.554	1.89
42	10:55	1.00	10.000	0.09	103.44	50.00	0.297	0.141	2.11
43	10:34	1.00	5.000	0.31	100.05	50.00	0.936	0.468	2.00
44	10:37	1.00	5.000	0.31	102.36	50.00	0.737	0.360	2.05
45	11:52	1.00	5.000	0.20	102.93	50.00	1.952	0.948	2.06
46	12:06	1.00	5.000	0.34	98.18	50.00	0.806	0.410	1.96
47	12:09	1.00	5.000	0.21	102.20	50.00	0.897	0.439	2.04
48	12:23	1.00	5.000	0.21	99.83	50.00	1.465	0.734	2.00
49	13:04	1.00	5.000	0.22	96.12	50.00	1.321	0.687	1.92
50	13:08	1.00	5.000	0.22	97.30	50.00	2.135	1.097	1.95
51	13:29	1.00	5.000	0.38	104.02	50.00	0.728	0.350	2.08
52	14:06	1.00	10.000	0.20	97.72	50.00	0.274	0.140	1.95
53	14:31	1.00	10.000	0.12	97.92	50.00	0.419	0.214	1.96
54	14:36	1.00	5.000	0.25	95.31	50.00	1.212	0.636	1.91
55	14:41	1.00	10.000	0.12	95.65	50.00	0.354	0.185	1.91
56	18:32	1.00	10.000	0.16	193.66	100.00	0.364	0.188	1.94
57	6:16	0.99	5.000	0.23	80.28	50.00	4.676	2.912	1.61
58	14:03	1.00	5.000	0.24	80.52	50.00	1.616	1.003	1.61
59	9:20	0.99	5.000	0.16	86.69	50.00	2.108	1.216	1.73

COMPUchem LIBS

COMPUchem DATA: CT891828C12 SCANS 59 TO 1600

RIC
18/28/89 1:34:00
SAMPLE: SWL 0510130 #1984 ON #12
COND.:

ISS4088.



QUANTITATION REPORT FILE: CT891020C12
DATA: CT891020C12.TI
10/20/89 1:34:00
SAMPLE: 5ML VSTD150 #1904 ON #12
CONDS.:
SUBMITTED BY: 12 ANALYST: 1939

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <79-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACRYLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	289 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	293 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROENZENE (IS) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYL METHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE, 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M,P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 D4-1,2-DICHLOROETHANE WE#57
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58
 59 #233 D8-TOLUENE WE#59

OK ST-
10/30/84

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	422	5:16	1	1.000	A BB	51378.	50.000 UG/L	0.41
2	50	69	0:52	1	0.164	A BB	115017.	154.868 UG/L	1.26
3	62	75	0:56	1	0.178	A BB	137359.	154.162 UG/L	1.26
4	94	95	1:11	1	0.225	A BB	141421.	143.204 UG/L	1.17
5	64	106	1:19	1	0.251	A BB	69797.	150.928 UG/L	1.23
6	101	123	1:32	1	0.291	A BB	820111.	271.687 UG/L	2.22
7	56	176	2:12	1	0.417	A BB	90606.	1079.750 UG/L	8.81
8	96	172	2:09	1	0.408	A BB	177523.	138.381 UG/L	1.13
9	76	180	2:15	1	0.427	A BB	512420.	125.398 UG/L	1.02
10	142	181	2:16	1	0.429	A BB	467722.	135.940 UG/L	1.11
11	117	181	2:16	1	0.429	A BB	183327.	159.929 UG/L	1.30
12	85	182	2:16	1	0.431	A BB	200203.	158.571 UG/L	1.29
13	43	202	2:31	1	0.479	A UB	40079.	135.460 UG/L	1.11
14	114	561	7:01	14	1.000	A BB	243985.	50.000 UG/L	0.41
15	76	220	2:45	1	0.521	A BB	94625.	147.727 UG/L	1.21
16	84	239	2:59	1	0.566	A BB	180763.	137.033 UG/L	1.12
17	96	268	3:21	1	0.635	A BB	193234.	142.808 UG/L	1.17
18	53	283	3:32	1	0.671	A BB	292669.	1392.730 UG/L	11.36
19	63	322	4:01	1	0.763	A BB	404055.	139.042 UG/L	1.13
20	43	347	4:20	14	0.619	A BB	475459.	161.619 UG/L	1.32
21	96	395	4:56	1	0.936	A BB	236660.	139.284 UG/L	1.14
22	72	413	5:10	1	0.979	A BB	13601.	157.341 UG/L	1.28
23	83	444	5:33	1	1.052	A BB	498466.	127.133 UG/L	1.04
24	97	447	5:35	14	0.797	A BB	514028.	140.303 UG/L	1.14
25	117	464	5:48	14	0.827	A VB	528946.	147.526 UG/L	1.20
26	78	494	6:10	14	0.881	A BB	482590.	146.442 UG/L	1.19
27	62	506	6:19	1	1.199	A BB	420027.	129.928 UG/L	1.06
28	70	553	6:55	14	0.986	A BB	90874.	1502.060 UG/L	12.25
29	117	944	11:48	29	1.000	A BB	172115.	50.000 UG/L	0.41
30	130	582	7:16	14	1.037	A BB	310581.	143.030 UG/L	1.17
31	63	611	7:38	14	1.089	A BB	250015.	134.784 UG/L	1.10
32	174	626	7:49	1	1.483	A BB	282154.	135.204 UG/L	1.10
33	83	657	8:13	14	1.171	A BB	694323.	134.487 UG/L	1.10
34	63	710	8:52	14	1.266	A BB	145298.	215.113 UG/L	1.75
35	75	715	8:56	14	1.275	A BB	605910.	210.203 UG/L	1.71
36	43	750	9:22	29	0.794	A BB	153984.	187.810 UG/L	1.53
37	92	749	9:22	29	0.793	A BB	391507.	150.400 UG/L	1.23
38	75	801	10:01	14	1.428	A BB	248155.	167.433 UG/L	1.37
39	97	823	10:17	14	1.467	A BB	167504.	143.573 UG/L	1.17
40	69	828	10:21	29	0.877	A BB	241097.	174.063 UG/L	1.42
41	164	820	10:15	29	0.869	A BB	241429.	126.666 UG/L	1.03

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTDT
42	43	872	10:54	29	0.924	A BB	88056.	181.412 UG/L	1.48
43	129	871	10:53	14	1.553	A BB	341952.	149.765 UG/L	1.22
44	107	873	10:56	14	1.560	A BB	278053.	158.349 UG/L	1.29
45	112	948	11:51	29	1.004	A BB	461700.	141.415 UG/L	1.15
46	131	968	12:06	14	1.725	A BB	301604.	150.580 UG/L	1.23
47	106	972	12:09	29	1.030	A BV	211169.	139.805 UG/L	1.14
48	106	990	12:22	29	1.049	A VB	364548.	144.312 UG/L	1.18
49	106	1045	13:04	29	1.107	A BB	324413.	137.138 UG/L	1.12
50	104	1051	13:08	29	1.113	A BB	529394.	140.162 UG/L	1.14
51	173	1072	13:24	14	1.911	A BB	271713.	159.191 UG/L	1.30
52	88	1128	14:06	14	2.011	A BB	112239.	164.056 UG/L	1.34
53	110	1161	14:31	29	1.230	A BB	98912.	134.318 UG/L	1.10
54	83	1167	14:35	29	1.236	A BB	279296.	127.632 UG/L	1.04
55	53	1174	14:40	29	1.244	A BB	91543.	143.770 UG/L	1.17
56	157	1462	18:31	29	1.570	A BB	180925.	279.494 UG/L	2.28
57	65	497	6:13	1	1.178	A BB	400709.	133.904 UG/L	1.09
58	95	1123	14:02	29	1.190	A BB	468629.	135.694 UG/L	1.11
59	98	741	9:16	29	0.785	A BB	605960.	144.750 UG/L	1.18

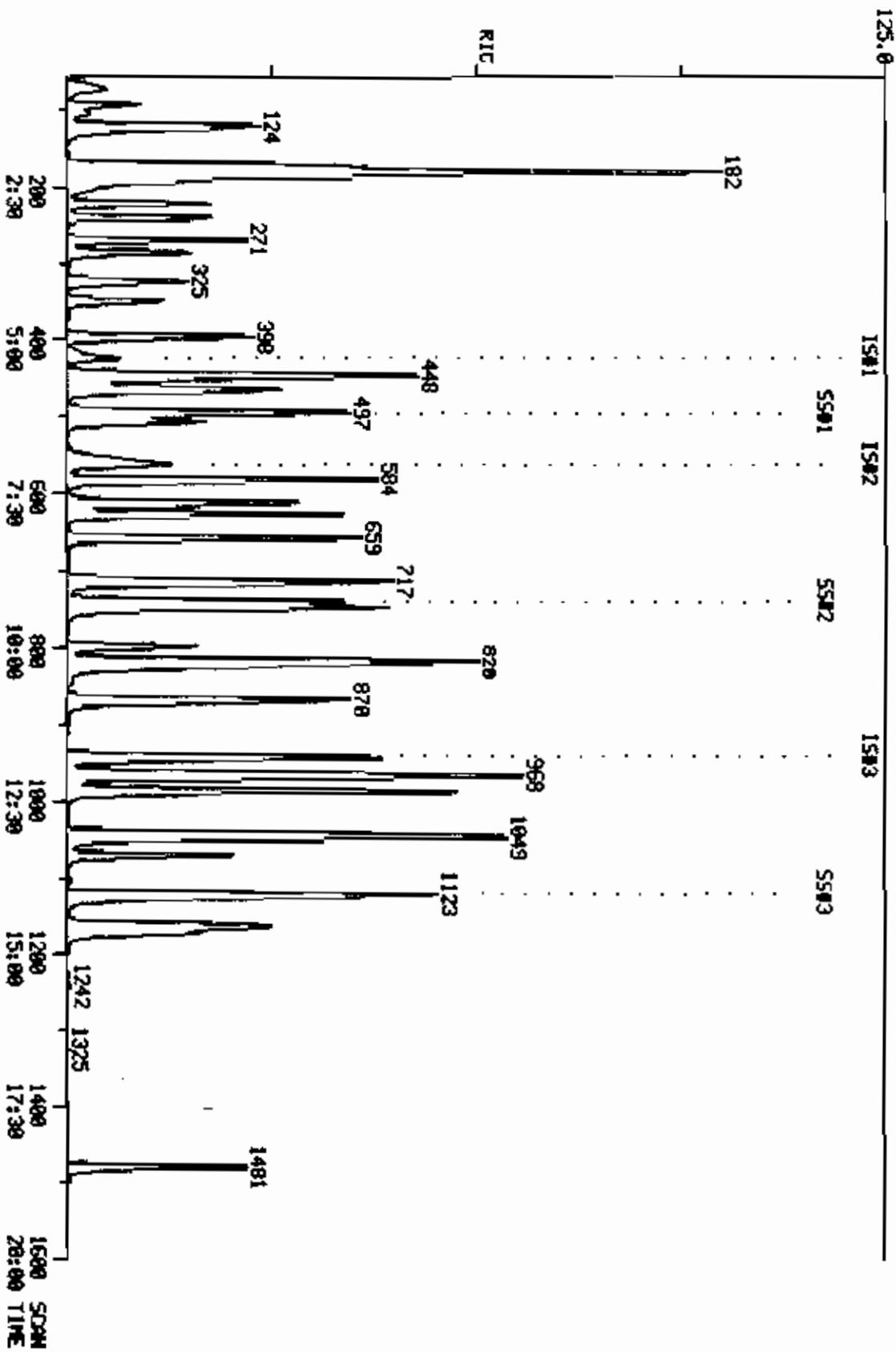
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC (L)	RATIO
1	5:22	0.98	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:52	0.99	10.000	0.02	154.87	50.00	2.239	0.723	3.10
3	0:57	0.99	10.000	0.02	154.16	50.00	2.673	0.867	3.08
4	1:11	1.00	10.000	0.02	143.20	50.00	2.753	0.961	2.86
5	1:20	0.99	10.000	0.03	150.93	50.00	1.359	0.450	3.02
6	1:32	1.00	10.000	0.03	271.69	50.00	15.962	2.938	5.43
7	2:12	1.00	100.000	0.00	1079.76	500.01	0.176	0.082	2.16
8	2:11	0.98	5.000	0.08	138.38	50.00	3.455	1.248	2.77
9	2:17	0.98	5.000	0.09	125.40	50.00	9.974	3.977	2.51
10	2:18	0.98	10.000	0.04	135.94	50.00	9.104	3.348	2.72
11	2:19	0.98	10.000	0.04	159.93	50.00	3.568	1.116	3.20
12	2:20	0.97	10.000	0.04	158.57	50.00	3.897	1.229	3.17
13	2:29	1.02	10.000	0.05	135.46	50.00	0.780	0.288	2.71
14	7:04	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	2:48	0.98	10.000	0.05	147.73	50.00	1.842	0.623	2.95
16	3:01	0.99	5.000	0.11	137.03	50.00	3.518	1.284	2.74
17	3:24	0.99	5.000	0.13	142.81	50.00	3.761	1.317	2.86
18	3:33	1.00	100.000	0.01	1392.74	500.01	0.570	0.205	2.79
19	4:04	0.99	5.000	0.15	139.04	50.00	7.864	2.828	2.78
20	4:23	0.99	10.000	0.06	161.62	50.00	1.949	0.603	3.23
21	5:00	0.99	5.000	0.19	139.28	50.00	4.606	1.654	2.79
22	5:12	0.99	10.000	0.10	157.34	50.00	0.265	0.084	3.15
23	5:37	0.99	5.000	0.21	127.13	50.00	9.702	3.816	2.54
24	5:40	0.99	5.000	0.16	140.30	50.00	2.107	0.751	2.81
25	5:52	0.99	5.000	0.17	147.53	50.00	2.168	0.735	2.95
26	6:14	0.99	5.000	0.18	146.44	50.00	1.978	0.675	2.93
27	6:23	0.99	5.000	0.24	129.93	50.00	8.175	3.146	2.60
28	6:58	0.99	100.000	0.01	1502.07	500.01	0.037	0.012	3.00
29	11:49	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	7:19	0.99	5.000	0.21	143.03	50.00	1.273	0.445	2.86
31	7:41	0.99	5.000	0.22	134.78	50.00	1.025	0.380	2.70
32	7:52	0.99	5.000	0.30	133.20	50.00	5.492	2.031	2.70
33	8:16	0.99	5.000	0.23	134.49	50.00	2.846	1.058	2.69
34	8:57	0.99	10.000	0.13	215.11	50.00	0.596	0.138	4.30
35	9:01	0.99	5.000	0.25	210.20	50.00	2.483	0.591	4.20
36	9:26	0.99	10.000	0.08	187.81	50.00	0.895	0.238	3.76

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	9:26	0.99	5.000	0.16	150.40	50.00	2.275	0.756	3.01
38	10:03	1.00	5.000	0.29	167.43	50.00	1.017	0.304	3.35
39	10:19	1.00	5.000	0.29	143.37	50.00	0.687	0.239	2.87
40	10:22	1.00	10.000	0.09	174.06	50.00	1.401	0.402	3.48
41	10:18	1.00	5.000	0.17	126.67	50.00	1.403	0.554	2.53
42	10:55	1.00	10.000	0.09	181.41	50.00	0.512	0.141	3.63
43	10:54	1.00	5.000	0.31	149.77	50.00	1.402	0.468	3.00
44	10:57	1.00	5.000	0.31	158.35	50.00	1.140	0.360	3.17
45	11:52	1.00	5.000	0.20	141.42	50.00	2.683	0.948	2.83
46	12:06	1.00	5.000	0.35	150.58	50.00	1.234	0.410	3.01
47	12:09	1.00	5.000	0.21	139.81	50.00	1.227	0.439	2.80
48	12:23	1.00	5.000	0.21	144.31	50.00	2.118	0.734	2.89
49	13:04	1.00	5.000	0.22	137.14	50.00	1.885	0.687	2.74
50	13:08	1.00	5.000	0.22	140.16	50.00	3.076	1.097	2.80
51	13:25	1.00	5.000	0.38	159.19	50.00	1.114	0.350	3.18
52	14:06	1.00	10.000	0.20	164.06	50.00	0.460	0.140	3.28
53	14:31	1.00	10.000	0.12	134.32	50.00	0.575	0.214	2.69
54	14:36	1.00	5.000	0.25	127.63	50.00	1.623	0.636	2.55
55	14:41	1.00	10.000	0.12	143.77	50.00	0.532	0.185	2.88
56	18:32	1.00	10.000	0.16	279.49	100.00	0.526	0.188	2.79
57	6:16	0.99	5.000	0.24	133.90	50.00	7.799	2.912	2.68
58	14:03	1.00	5.000	0.24	135.69	50.00	2.723	1.003	2.71
59	9:20	0.99	5.000	0.16	144.75	50.00	3.521	1.216	2.89

COMPUchem LABS
COMPUchem DATA: CS891028C12 SCANS 59 TO 1600

RIC
10/20/89 0:15:00
SAMPLE: SML UST0200 #1905 ON #12
COMDS.:

894489.



QUANTITATION REPORT FILE: CS891020C12
DATA: CS891020C12.TI
10/20/89 0:15:00
SAMPLE: 5ML VST0200 #1905 DN #12
CONDS.:
SUBMITTED BY: 12 ANALYST: 1339

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

NO	NAME
1	*204 BROMOCHLOROMETHANE (18) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-13-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (18) <340-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 O5-CHLOROBENZENE (18) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYL METHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <991-78-6> WE#42
43	208 DI-BROMOCHLOROMETHANE , 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

ND NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M,P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 D4-1,2-DICHLOROETHANE WE#57
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58
 59 #233 DB-TOLUENE WE#59

OK Study
 10/20/89

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	%TOT
1	128	423	3:19	1	1.000	A BB	48961.	50.000 UG/L	0.31
2	50	68	0:51	1	0.160	A BB	131978.	186.478 UG/L	1.17
3	62	75	0:56	1	0.176	A BB	161201.	189.852 UG/L	1.19
4	94	95	1:11	1	0.224	A BB	171969.	182.734 UG/L	1.15
9	64	106	1:19	1	0.249	A BB	83708.	189.944 UG/L	1.19
6	101	124	1:33	1	0.292	A BB	957123.	332.729 UG/L	2.09
7	56	179	2:14	1	0.421	A BB	133571.	1670.350 UG/L	10.49
8	96	173	2:10	1	0.407	A BB	276130.	225.872 UG/L	1.42
9	76	181	2:16	1	0.426	A BB	735371.	188.843 UG/L	1.19
10	142	183	2:17	1	0.431	A BB	638130.	194.623 UG/L	1.22
11	117	183	2:17	1	0.431	A BB	240904.	220.533 UG/L	1.38
12	85	185	2:19	1	0.435	A BB	271634.	229.769 UG/L	1.42
13	43	207	2:35	1	0.487	A BB	42419.	150.432 UG/L	0.94
14	114	564	7:03	14	1.000	A BB	244969.	50.000 UG/L	0.31
15	76	223	2:47	1	0.529	A BB	118903.	194.793 UG/L	1.22
16	84	242	3:01	1	0.569	A BB	222546.	177.036 UG/L	1.11
17	96	271	3:23	1	0.638	A BB	234223.	181.645 UG/L	1.14
18	53	287	3:35	1	0.675	A BB	358207.	1788.760 UG/L	11.23
19	63	325	4:04	1	0.765	A BB	502771.	181.553 UG/L	1.14
20	43	350	4:22	14	0.621	A BB	578248.	195.769 UG/L	1.23
21	96	397	4:58	1	0.934	A BB	297858.	183.770 UG/L	1.15
22	72	416	5:12	1	0.979	A BB	17101.	207.597 UG/L	1.30
23	83	447	5:35	1	1.052	A BB	589655.	157.815 UG/L	0.99
24	97	449	5:37	14	0.796	A BB	603880.	164.166 UG/L	1.03
25	117	466	5:49	14	0.826	A VB	628344.	174.545 UG/L	1.10
26	78	495	6:11	14	0.878	A BB	604263.	182.627 UG/L	1.15
27	62	508	6:21	1	1.195	A VB	922168.	169.498 UG/L	1.06
28	70	556	6:57	14	0.986	A BB	122320.	2013.720 UG/L	12.65
29	117	942	11:46	29	1.000	A BB	160852.	50.000 UG/L	0.31
30	130	584	7:18	14	1.035	A BB	391101.	179.389 UG/L	1.13
31	63	613	7:40	14	1.087	A BB	321063.	172.391 UG/L	1.08
32	174	628	7:51	1	1.478	A BB	347699.	174.835 UG/L	1.10
33	83	659	8:14	14	1.168	A BB	820949.	158.375 UG/L	0.99
34	63	712	8:54	14	1.262	A BB	161594.	238.278 UG/L	1.50
35	75	717	8:58	14	1.271	A BB	665819.	230.058 UG/L	1.44
36	43	752	9:24	29	0.798	A BB	188368.	245.835 UG/L	1.54
37	92	750	9:22	29	0.796	A BB	467114.	192.010 UG/L	1.21
38	75	800	10:00	14	1.418	A BB	299382.	201.189 UG/L	1.26
39	97	822	10:16	14	1.457	A BB	197202.	168.349 UG/L	1.06
40	69	827	10:20	29	0.878	A BB	292350.	225.845 UG/L	1.42
41	164	819	10:14	29	0.869	A BB	287079.	161.162 UG/L	1.01

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	XTOT
42	43	870	10:52	29	0.924	A BB	105596.	232.781 UG/L	1.46
43	129	868	10:51	14	1.539	A BB	415512.	181.252 UG/L	1.14
44	107	873	10:55	14	1.548	A BB	338015.	191.724 UG/L	1.20
45	112	946	11:49	29	1.004	A BB	965039.	185.185 UG/L	1.16
46	131	966	12:04	14	1.713	A BB	365502.	181.749 UG/L	1.14
47	106	970	12:07	29	1.030	A BV	252064.	178.565 UG/L	1.12
48	106	989	12:22	29	1.050	A VB	439692.	186.247 UG/L	1.17
49	106	1044	13:03	29	1.108	A BB	389415.	176.143 UG/L	1.11
50	104	1050	13:07	29	1.115	A BB	637687.	180.656 UG/L	1.13
51	173	1071	13:23	14	1.899	A BB	327744.	191.246 UG/L	1.20
52	88	1127	14:05	14	1.998	A BB	134720.	196.125 UG/L	1.23
53	110	1161	14:31	29	1.232	A BB	118844.	172.689 UG/L	1.08
54	83	1167	14:35	29	1.239	A BB	336240.	164.414 UG/L	1.03
55	83	1174	14:40	29	1.246	A BB	112026.	188.257 UG/L	1.18
56	157	1481	18:31	29	1.572	A BB	212976.	352.044 UG/L	2.21
57	65	498	6:13	1	1.172	A BB	496162.	173.986 UG/L	1.09
58	95	1123	14:02	29	1.192	A BB	565470.	175.199 UG/L	1.10
59	98	742	9:16	29	0.788	A BB	726159.	185.609 UG/L	1.17

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	5:22	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:52	0.97	10.000	0.02	186.48	50.00	2.696	0.723	3.73
3	0:57	0.99	10.000	0.02	189.85	50.00	3.292	0.867	3.80
4	1:11	1.00	10.000	0.02	182.73	50.00	3.512	0.961	3.65
5	1:20	0.99	10.000	0.02	189.94	50.00	1.710	0.450	3.80
6	1:32	1.01	10.000	0.03	332.73	50.00	19.549	2.938	6.65
7	2:12	1.02	10.000	0.00	1670.36	500.01	0.273	0.082	3.34
8	2:11	0.99	5.000	0.08	223.87	50.00	5.640	1.248	4.52
9	2:17	0.99	5.000	0.09	188.84	50.00	15.020	3.977	3.78
10	2:18	0.99	10.000	0.04	194.62	50.00	13.033	3.348	3.89
11	2:19	0.99	10.000	0.04	220.53	50.00	4.920	1.116	4.41
12	2:20	0.99	10.000	0.04	223.77	50.00	5.548	1.229	4.52
13	2:29	1.04	10.000	0.05	150.43	50.00	0.866	0.288	3.01
14	7:04	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	2:48	1.00	10.000	0.05	194.79	50.00	2.429	0.623	3.90
16	3:01	1.00	5.000	0.11	177.04	50.00	4.545	1.284	3.54
17	3:24	1.00	5.000	0.13	181.65	50.00	4.784	1.317	3.63
18	3:33	1.01	10.000	0.01	1788.77	500.01	0.732	0.205	3.58
19	4:04	1.00	5.000	0.15	181.55	50.00	10.269	2.828	3.63
20	4:23	1.00	10.000	0.06	195.77	50.00	2.360	0.603	3.92
21	5:00	0.99	5.000	0.19	183.77	50.00	6.077	1.654	3.68
22	5:12	1.00	10.000	0.10	207.60	50.00	0.349	0.084	4.15
23	5:37	1.00	5.000	0.21	157.81	50.00	12.043	3.816	3.16
24	5:40	0.99	5.000	0.16	164.17	50.00	2.469	0.751	3.28
25	5:52	0.99	5.000	0.17	174.54	50.00	2.565	0.735	3.49
26	6:14	0.99	5.000	0.18	182.63	50.00	2.467	0.675	3.65
27	6:23	0.99	5.000	0.24	169.50	50.00	10.665	3.146	3.39
28	6:58	1.00	10.000	0.01	2013.72	500.01	0.050	0.012	4.03
29	11:49	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	7:19	1.00	5.000	0.21	179.39	50.00	1.597	0.445	3.59
31	7:41	1.00	5.000	0.22	172.09	50.00	1.311	0.380	3.45
32	7:52	1.00	5.000	0.30	174.84	50.00	7.101	2.031	3.50
33	8:16	1.00	5.000	0.23	158.38	50.00	3.351	1.058	3.17
34	8:57	0.99	10.000	0.13	238.28	50.00	0.660	0.138	4.77
35	9:01	0.99	5.000	0.25	230.06	50.00	2.718	0.591	4.60
36	9:26	1.00	10.000	0.08	245.83	50.00	1.171	0.238	4.92

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	9:26	0.99	5.000	0.16	192.01	50.00	2.904	0.756	3.84
38	10:03	1.00	5.000	0.28	201.18	50.00	1.222	0.304	4.02
39	10:19	1.00	5.000	0.29	168.35	50.00	0.805	0.239	3.37
40	10:22	1.00	10.000	0.09	225.84	50.00	1.818	0.402	4.52
41	10:18	0.99	5.000	0.17	161.16	50.00	1.785	0.554	3.22
42	10:55	1.00	10.000	0.09	232.79	50.00	0.696	0.141	4.66
43	10:54	1.00	5.000	0.31	181.25	50.00	1.696	0.468	3.63
44	10:57	1.00	5.000	0.31	191.72	50.00	1.380	0.360	3.83
45	11:52	1.00	5.000	0.20	185.19	50.00	3.513	0.948	3.70
46	12:06	1.00	5.000	0.34	181.75	50.00	1.492	0.410	3.63
47	12:09	1.00	5.000	0.21	178.57	50.00	1.567	0.439	3.57
48	12:23	1.00	5.000	0.21	186.25	50.00	2.734	0.734	3.72
49	13:04	1.00	5.000	0.22	176.14	50.00	2.421	0.687	3.52
50	13:08	1.00	5.000	0.22	180.66	50.00	3.964	1.097	3.61
51	13:25	1.00	5.000	0.38	191.25	50.00	1.338	0.350	3.82
52	14:06	1.00	10.000	0.20	196.12	50.00	0.550	0.140	3.92
53	14:31	1.00	10.000	0.12	172.69	50.00	0.739	0.214	3.45
54	14:36	1.00	5.000	0.25	164.41	50.00	2.090	0.636	3.29
55	14:41	1.00	10.000	0.12	188.26	50.00	0.696	0.185	3.77
56	18:32	1.00	10.000	0.16	352.04	100.00	0.662	0.188	3.52
57	6:16	0.99	5.000	0.23	173.99	50.00	10.134	2.912	3.48
58	14:03	1.00	5.000	0.24	175.20	50.00	3.515	1.003	3.50
59	9:20	0.99	5.000	0.16	185.61	50.00	4.514	1.216	3.71

COMPUCHROM LABORATORIES, INC.
QC/MS ANALYSIS LOG

INITIAL TIME OF TUNE 2218 23rd 10th 89
 TIME TIME EXPRES 1018 10/18/89 (M) ✓ (C)
 SECTION (A) _____
 DATE 10/18/89
 ANALYSIS TYPE WELL

PREVENTIVE MAINTENANCE

FILE NAME	DATE	TIME	EPA ID	CASE NO.	STD ID #	ANALYST	CHEMIST	COMMENTS (Lot #, Dispenser, Etc.)
BF81019B12	10/19/89	20:04	RB8		7008	2ul	1/57	1390290
CS81015B12	11/1	20:53	151ND058		1902	4uml	1/57	
CR81019B12	11/1	21:58	151ND050		1902	5ml	1/57	
BS81019B12	11/1	22:49	BE8		7008	2ul	1/57	30290
CS81019B12	11/1	23:18	151ND050		7008	5ml	1/57	152ND050
CS891020C12	11/1	0:15	151ND050		1905	5ml	1539	152ND050
CR891020C12	11/1	13:4	151ND050		1904	5ml	1539	152ND050
CR891020C12	11/1	13:5	151ND050		1903	5ml	1539	152ND050
CR891020C12	11/1	3:01	151ND050		1901	5ml	1539	152ND050
DM811020C12	11/1	4:1	151ND050		1901	5ml	1539	152ND050

Multi-point Good.

VERIFIED DES 10/20/89
 SUPERVISOR APPROVAL M. J. Miller
10-20-89

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05

Instrument ID: 18 Calibration Date(s): 10/11/89 10/11/89

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

Min RRF for SPCC(†) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = CV891031A18 RRF50 = CY891031C18
 RRF100 = CU891031A18 RRF150 = CT891031A18 RRF200 = CS891031A18

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	RRF	% RSD
Chloromethane	0.881	1.166	0.927	0.781	0.738	0.899	18.6#
Bromomethane	1.205	1.524	1.259	1.125	1.169	1.256	12.5
Vinyl Chloride	* 0.875	0.771	0.755	0.644	0.363	0.682	28.7*
Chloroethane	0.726	0.915	0.741	0.658	0.686	0.745	13.5
Methylene Chloride	1.625	1.272	1.291	1.224	1.142	1.311	14.1
Acetone	0.349	0.414	0.381	0.356	0.274	0.355	14.6
Carbon Disulfide	3.445	3.843	3.651	3.723	3.817	3.700	4.4
1,1-Dichloroethene	* 1.583	1.327	1.356	1.228	1.257	1.350	10.4*
1,1-Dichloroethane	* 2.295	1.356	2.083	2.017	1.983	1.947	18.1#
1,2-Dichloroethene (total)	3.096	2.775	2.945	2.822	2.881	2.904	4.3
Chloroform	* 2.812	2.618	2.565	2.439	2.486	2.584	5.6*
1,2-Dichloroethane	2.086	1.885	1.880	1.820	1.869	1.908	5.4
2-Butanone	0.061	0.100	0.101	0.108	0.101	0.095	20.0
1,1,1-Trichloroethane	0.788	0.651	0.701	0.638	0.668	0.689	8.7
Carbon Tetrachloride	0.695	0.674	0.708	0.653	0.680	0.682	3.1
Vinyl Acetate	0.591	0.685	0.681	0.674	0.672	0.661	5.9
Bromodichloromethane	0.731	0.625	0.658	0.599	0.621	0.647	8.0
1,2-Dichloropropane	* 0.356	0.313	0.312	0.290	0.294	0.313	8.4*
cis-1,3-Dichloropropene	0.652	0.575	0.614	0.563	0.581	0.597	6.0
Trichloroethene	0.541	0.469	0.458	0.415	0.439	0.464	10.2
Dibromochloromethane	0.676	0.616	0.638	0.578	0.581	0.618	6.6
1,1,2-Trichloroethane	0.366	0.317	0.313	0.306	0.294	0.319	8.6
Benzene	0.912	0.767	0.820	0.758	0.782	0.808	7.8
Trans-1,3-Dichloropropene	0.353	0.278	0.308	0.282	0.293	0.303	10.0
Bromoform	* 0.592	0.475	0.529	0.487	0.469	0.510	10.1#
4-Methyl-2-Pentanone	0.361	0.367	0.380	0.348	0.365	0.364	3.2
2-Hexanone	0.214	0.231	0.229	0.229	0.234	0.227	3.4
Tetrachloroethene	0.656	0.533	0.538	0.491	0.517	0.547	11.6
1,1,2,2-Tetrachloroethane	* 0.644	0.485	0.523	0.498	0.456	0.521	14.0#
Toluene	* 0.765	0.668	0.721	0.653	0.707	0.703	6.3*
Chlorobenzene	* 1.098	0.984	1.013	0.948	0.968	1.002	5.8#
Ethylbenzene	* 0.513	0.436	0.461	0.437	0.456	0.461	6.8*
Styrene	1.057	1.149	1.123	1.077	1.086	1.098	3.4
Total Xylenes	1.352	1.474	1.422	1.368	1.401	1.403	3.4
Toluene-d8	1.088	1.127	1.104	1.005	1.126	1.090	4.6
BFB	0.750	0.751	0.757	0.731	0.730	0.744	1.7
1,2-Dichloroethane-d4	1.812	1.941	1.866	1.799	1.858	1.855	3.0

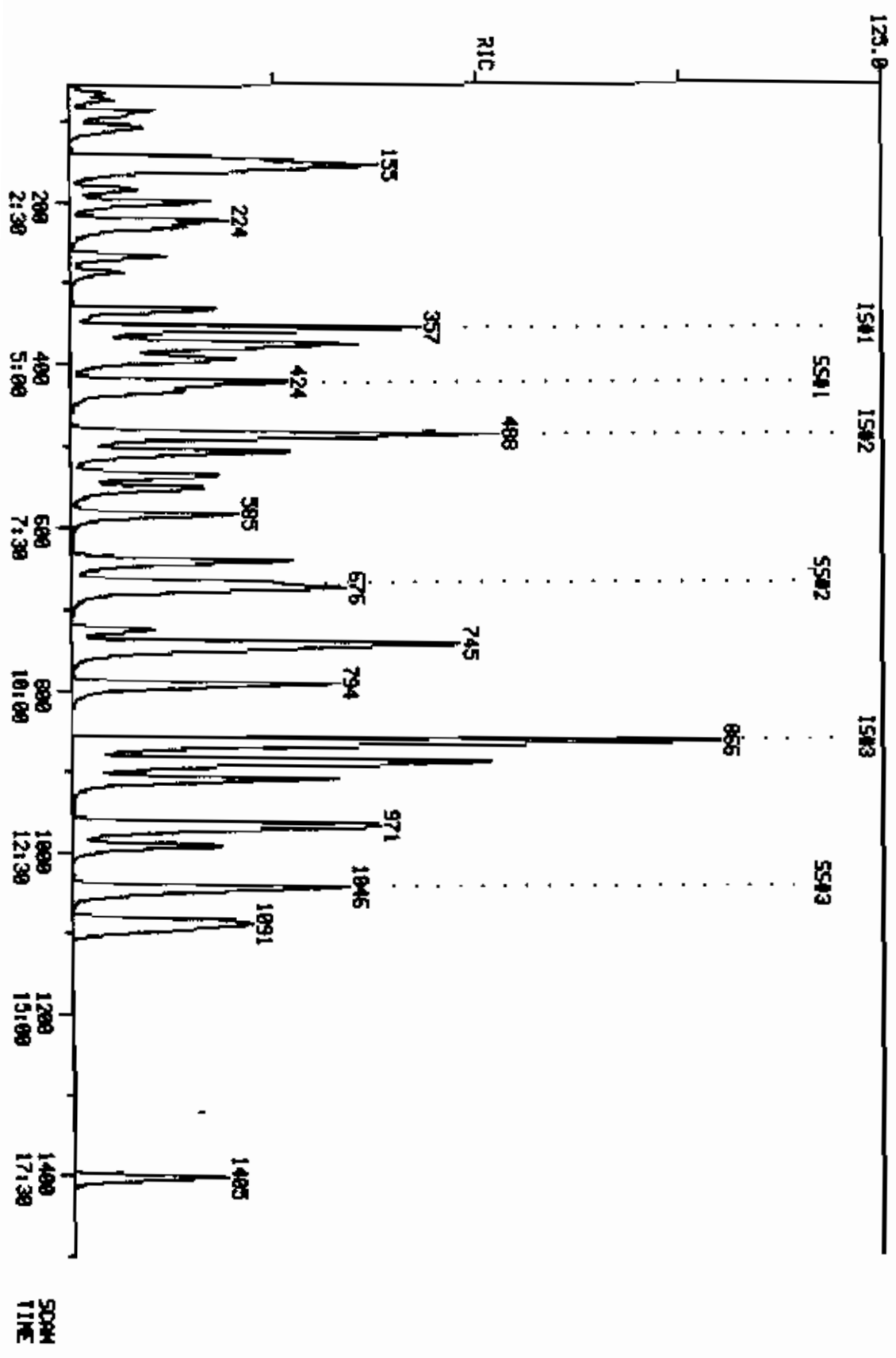
FORM VI VOA

1/87 Rev.

RIC
 10/31/89 11:07:08
 SAMPLE1 SWL EPA 108AUST0820 STD01901 04918
 COND5.1

COMPUTER LABS
 COMPUTER DATA C0891031018 SCANS 56 TO 1500

1236380.



QUANTITATION REPORT FILE: CV891031A18
DATA: CV891031A18.TI /
10/31/89 11:07:00 /
SAMPLE: 5ML EPA ID#VSTD020 STD#1901 DN#18
CONDS.:
SUBMITTED BY: 18 ANALYST: 1577 /

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (18) <75-97-5> WE#1
2	221 CHLOROPETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <75-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (18) <340-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-9> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (18) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M,P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 D4-1,2-DICHLOROETHANE WE#57
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58
 59 #233 D8-TOLUENE WE#59

DeSack
 11-1-57

NO	N/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	XTOT
1	128	357	4:28	1	1.000	A BB	37096.	50.000 UG/L	2.57
2	50	66	0:49	1	0.185	A BB	20159.	15.149 UG/L	0.78
3	62	75	0:56	1	0.210	A BB	19989.	22.694 UG/L	1.17
4	94	88	1:06	1	0.246	A BB	27526.	15.817 UG/L	0.81
5	64	95	1:11	1	0.266	A BB	16982.	15.867 UG/L	0.82
6	101	109	1:22	1	0.305	A BB	45043.	18.803 UG/L	0.97
7	96	147	1:30	1	0.412	A BB	23793.	207.533 UG/L	10.68
8	96	147	1:50	1	0.412	A BB	36153.	23.853 UG/L	1.23
9	76	158	1:58	1	0.443	A BB	78683.	17.932 UG/L	0.92
10	142	158	1:58	1	0.443	A BB	46970.	16.969 UG/L	0.87
11	117	155	1:56	1	0.434	A BB	15209.	16.921 UG/L	0.87
12	85	155	1:56	1	0.434	A BB	15001.	15.278 UG/L	0.79
13	43	163	2:02	1	0.497	A BB	7980.	16.866 UG/L	0.87
14	114	488	6:06	14	1.000	A BB	213076.	50.000 UG/L	2.57
15	76	185	2:19	1	0.518	A BB	8013.	20.386 UG/L	1.05
16	84	200	2:30	1	0.560	A BB	37123.	25.552 UG/L	1.32
17	96	224	2:48	1	0.627	A BB	33741.	23.320 UG/L	1.20
18	53	232	2:54	1	0.650	A BB	45268.	179.138 UG/L	9.22
19	63	267	3:20	1	0.748	A BB	52411.	33.891 UG/L	1.74
20	43	288	3:36	14	0.990	A BB	50346.	17.259 UG/L	0.89
21	96	333	4:10	1	0.933	A BV	36970.	21.474 UG/L	1.11
22	72	349	4:22	1	0.978	A BB	1391.	12.163 UG/L	0.63
23	83	377	4:43	1	1.056	A BB	64220.	21.485 UG/L	1.11
24	97	378	4:43	14	0.775	A BB	67159.	24.213 UG/L	1.25
25	117	395	4:56	14	0.809	A BB	59220.	20.629 UG/L	1.06
26	78	422	5:16	14	0.865	A BB	77772.	23.800 UG/L	1.22
27	62	434	5:29	1	1.216	A BB	47639.	22.126 UG/L	1.14
28	70	485	6:04	14	0.994	A BB	19260.	262.031 UG/L	13.49
29	117	865	10:49	29	1.000	A BB	191552.	50.000 UG/L	2.57
30	130	509	6:22	14	1.043	A BB	46100.	23.061 UG/L	1.19
31	63	536	6:42	14	1.098	A BB	30348.	22.717 UG/L	1.17
32	174	554	6:55	1	1.552	A BB	38392.	19.085 UG/L	0.98
33	83	585	7:19	14	1.199	A BV	62274.	23.373 UG/L	1.20
34	63	638	7:58	14	1.307	A BB	16149.	21.891 UG/L	1.13
35	75	643	8:02	14	1.318	A BB	55587.	22.687 UG/L	1.17
36	43	677	8:28	29	0.783	A BB	27677.	19.669 UG/L	1.01
37	92	676	8:27	29	0.782	A BB	58650.	22.922 UG/L	1.18
38	75	727	9:05	14	1.490	A BB	30116.	25.381 UG/L	1.31
39	97	747	9:20	14	1.531	A BV	31218.	23.098 UG/L	1.19
40	69	793	9:29	29	0.871	A BB	31573.	17.560 UG/L	0.90
41	164	743	9:17	29	0.859	A BB	50286.	24.640 UG/L	1.27

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	XTOT
42	43	796	9:57	29	0.920	A BB	16429.	18.546 UG/L	0.95
43	129	793	9:55	14	1.625	A BB	57654.	21.953 UG/L	1.13
44	107	795	9:56	14	1.629	A BB	49512.	20.206 UG/L	1.04
45	112	869	10:52	29	1.005	A BB	84102.	22.309 UG/L	1.15
46	131	890	11:07	14	1.824	A BB	47864.	19.316 UG/L	0.99
47	106	892	11:09	29	1.031	A BV	39305.	23.523 UG/L	1.21
48	106	912	11:24	29	1.054	A VB	55340.	18.624 UG/L	0.96
49	106	968	12:06	29	1.119	A BB	48235.	18.044 UG/L	0.93
50	104	973	12:10	29	1.125	A BB	80979.	18.401 UG/L	0.95
51	173	995	12:26	14	2.039	A BB	50495.	24.966 UG/L	1.28
52	88	1052	13:09	14	2.156	A BB	13169.	18.380 UG/L	0.95
53	110	1084	13:33	29	1.293	A BB	16289.	19.450 UG/L	1.00
54	83	1092	13:39	29	1.262	A BV	49360.	26.546 UG/L	1.37
55	53	1099	13:44	29	1.271	A BB	12307.	18.796 UG/L	0.97
56	157	1404	17:33	29	1.623	A BV	31296.	68.939 UG/L	3.55
57	65	426	8:19	1	1.193	A BB	41378.	18.671 UG/L	0.96
58	95	1046	13:04	29	1.209	A BB	57442.	19.970 UG/L	1.03
59	98	668	8:21	29	0.772	A BB	83364.	19.301 UG/L	0.99

NO	RET(L)	RATID	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:32	0.98	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51	0.97	10.000	0.02	15.14	50.00	0.353	1.164	0.30
3	0:57	0.99	10.000	0.02	22.69	50.00	0.350	0.771	0.45
4	1:07	0.99	10.000	0.02	15.82	50.00	0.482	1.524	0.32
5	1:12	0.99	10.000	0.03	15.87	50.00	0.290	0.919	0.32
6	1:25	0.96	10.000	0.03	18.80	50.00	0.789	2.098	0.38
7	1:55	0.96	100.000	0.00	207.93	500.01	0.042	0.100	0.42
8	1:55	0.96	5.000	0.08	23.85	50.00	0.633	1.327	0.48
9	2:02	0.97	5.000	0.09	17.93	50.00	1.378	3.843	0.36
10	2:02	0.97	10.000	0.04	16.97	50.00	0.823	2.424	0.34
11	2:00	0.97	10.000	0.04	16.92	50.00	0.266	0.787	0.34
12	2:02	0.95	10.000	0.04	15.28	50.00	0.263	0.860	0.31
13	2:07	0.96	10.000	0.05	16.87	50.00	0.140	0.414	0.34
14	6:10	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	2:23	0.97	10.000	0.05	20.39	50.00	0.140	0.344	0.41
16	2:39	0.97	5.000	0.11	25.59	50.00	0.690	1.272	0.51
17	2:52	0.97	5.000	0.13	23.32	50.00	0.591	1.267	0.47
18	2:59	0.97	100.000	0.01	179.14	500.01	0.079	0.221	0.36
19	3:27	0.97	5.000	0.15	33.89	50.00	0.918	1.356	0.68
20	3:41	0.98	10.000	0.06	17.26	50.00	0.236	0.685	0.35
21	4:13	0.99	5.000	0.19	21.47	50.00	0.648	1.508	0.43
22	4:24	0.99	10.000	0.10	12.16	50.00	0.024	0.100	0.24
23	4:46	0.99	5.000	0.21	21.48	50.00	1.125	2.618	0.43
24	4:48	0.98	5.000	0.15	24.21	50.00	0.315	0.651	0.48
25	5:01	0.98	5.000	0.16	20.63	50.00	0.278	0.674	0.41
26	5:21	0.99	5.000	0.17	23.80	50.00	0.365	0.767	0.48
27	5:30	0.99	5.000	0.24	22.13	50.00	0.834	1.889	0.44
28	6:06	0.99	100.000	0.01	262.03	500.01	0.009	0.017	0.52
29	10:49	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	6:29	0.99	5.000	0.21	23.06	50.00	0.216	0.469	0.46
31	6:46	0.99	5.000	0.22	22.72	50.00	0.142	0.313	0.45
32	6:57	1.00	5.000	0.31	19.08	50.00	0.672	1.762	0.38
33	7:21	0.99	5.000	0.24	23.37	50.00	0.292	0.625	0.47
34	8:01	1.00	10.000	0.13	21.89	50.00	0.076	0.173	0.44
35	8:04	1.00	5.000	0.26	22.69	50.00	0.261	0.575	0.45
36	8:29	1.00	10.000	0.08	19.67	50.00	0.144	0.367	0.39

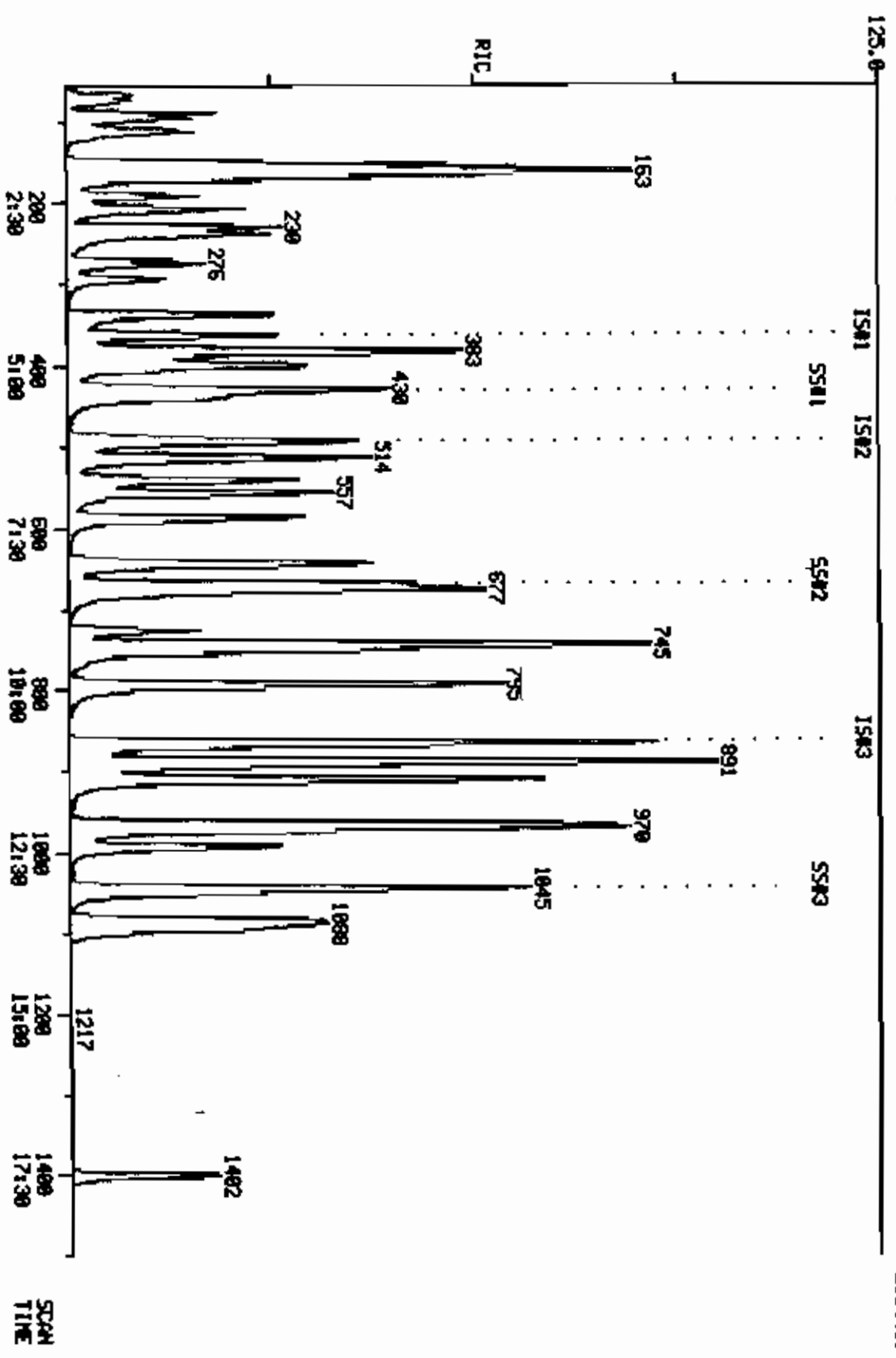
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	8:28	1.00	3.000	0.16	22.92	30.00	0.306	0.668	0.46
38	9:05	1.00	3.000	0.30	23.38	30.00	0.141	0.278	0.51
39	9:20	1.00	3.000	0.31	23.10	30.00	0.147	0.317	0.46
40	9:25	1.00	10.000	0.09	17.36	30.00	0.165	0.469	0.35
41	9:18	1.00	3.000	0.17	24.64	30.00	0.263	0.333	0.49
42	9:57	1.00	10.000	0.09	18.33	30.00	0.086	0.231	0.37
43	9:55	1.00	3.000	0.32	21.95	30.00	0.271	0.616	0.44
44	9:57	1.00	3.000	0.33	20.21	30.00	0.214	0.329	0.40
45	10:31	1.00	3.000	0.20	22.31	30.00	0.439	0.984	0.43
46	11:07	1.00	3.000	0.26	19.32	30.00	0.225	0.981	0.39
47	11:09	1.00	3.000	0.21	23.52	30.00	0.203	0.436	0.47
48	11:24	1.00	3.000	0.21	18.62	30.00	0.289	0.776	0.37
49	12:04	1.00	3.000	0.22	18.04	30.00	0.252	0.698	0.36
50	12:09	1.00	3.000	0.22	18.40	30.00	0.423	1.149	0.37
51	12:29	1.00	3.000	0.41	24.97	30.00	0.237	0.473	0.50
52	13:08	1.00	10.000	0.22	18.38	30.00	0.062	0.168	0.37
53	13:32	1.00	10.000	0.13	19.43	30.00	0.083	0.219	0.39
54	13:37	1.00	3.000	0.25	26.55	30.00	0.238	0.485	0.33
55	13:43	1.00	10.000	0.13	18.80	30.00	0.064	0.171	0.38
56	17:31	1.00	10.000	0.16	68.94	100.00	0.082	0.118	0.69
57	8:23	0.99	3.000	0.24	18.67	30.00	0.723	1.941	0.37
58	13:04	1.00	3.000	0.24	19.97	30.00	0.300	0.731	0.40
59	8:22	1.00	3.000	0.15	19.30	30.00	0.435	1.127	0.39

COMPUCHEN LABS

COMPUCHEN DATA CT891631C18 SCANS 57 TO 1598

RIC
10/31/89 7:38:08
SAMPLE: 5ML EPR STANDARD USTDC88 (1982) DM118
COND5.1

285440.



QUANTITATION REPORT FILE: CY891031C1B
DATA: CY891031C1B.TI
10/31/89 7:38:00
SAMPLE: 5ML EPA STANDARD VSTD050 (1902) DN#1B
COND#.:
SUBMITTED BY: 18 ANALYST: 1422

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (18) <75-97-5> WE#1
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4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (18) <540-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	219 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (18) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-3> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <991-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE .124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO	NAME
47	219 ETHYLBENZENE <100-41-4> WE#47
48	230 M. P-XYLENE <133-02-7> WE#48
49	239 O-XYLENE <133-02-7> WE#49
50	251 STYRENE <100-42-5> WE#50
51	205 BROMOFORM <75-25-2> WE#51
52	274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
53	275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
54	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
55	290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
56	262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
57	#25B D4-1,2-DICHLOROETHANE WE#57
58	#247 BROMOFLUOROBENZENE <460-00-4> WE#58
59	#233 DB-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	%TOT
1	128	363	4:32	1	1.000	A BB	57804.	50.000 UG/L	1.17
2	50	68	0:51	1	0.187	A BB	67381.	93.516 UG/L	1.25
3	62	76	0:57	1	0.209	A BV	44587.	60.981 UG/L	1.43
4	94	89	1:07	1	0.245	A BB	88092.	56.843 UG/L	1.33
5	64	96	1:12	1	0.264	A BB	52902.	55.951 UG/L	1.31
6	101	113	1:25	1	0.311	A BB	121262.	58.996 UG/L	1.38
7	56	153	1:55	1	0.421	A BB	58035.	487.150 UG/L	11.42
8	96	153	1:55	1	0.421	A BB	76723.	47.421 UG/L	1.11
9	76	163	2:02	1	0.449	A BB	222112.	54.464 UG/L	1.28
10	142	163	2:02	1	0.449	A BB	140112.	53.582 UG/L	1.26
11	117	160	2:00	1	0.441	A BB	45498.	49.942 UG/L	1.17
12	89	170	2:07	1	0.468	A BB	49703	52.476 UG/L	
13	43	170	2:07	1	0.468	A BB	23950.	57.933 UG/L	1.36
14	114	494	6:10	14	1.000	A BB	228458.	50.000 UG/L	1.17
15	76	191	2:23	1	0.526	A BB	19897.	52.220 UG/L	1.22
16	84	207	2:35	1	0.570	A BB	73542.	48.997 UG/L	1.15
17	96	230	2:52	1	0.634	A BB	73241.	48.817 UG/L	1.14
18	53	239	2:59	1	0.658	A BB	127919.	474.557 UG/L	11.13
19	63	276	3:27	1	0.760	A VB	78374.	31.853 UG/L	0.75
20	43	299	3:41	14	0.597	A BB	156383.	52.853 UG/L	1.24
21	96	338	4:13	1	0.931	A BB	87149.	46.096 UG/L	1.08
22	72	352	4:24	1	0.970	A BB	5789.	49.079 UG/L	1.15
23	83	382	4:46	1	1.052	A BB	151308.	47.748 UG/L	1.12
24	97	384	4:48	14	0.777	A BB	148695.	48.460 UG/L	1.14
25	117	402	5:01	14	0.814	A VB	153896.	47.678 UG/L	1.12
26	78	428	5:21	14	0.866	A BB	175184.	48.918 UG/L	1.15
27	62	440	5:30	1	1.212	A BB	108980.	48.492 UG/L	1.14
28	70	488	6:06	14	0.988	A BB	39405.	463.606 UG/L	10.87
29	117	863	10:49	29	1.000	A BB	199183.	50.000 UG/L	1.17
30	130	513	6:25	14	1.038	A BB	107168.	50.587 UG/L	1.19
31	63	541	6:46	14	1.095	A BB	71618.	49.463 UG/L	1.16
32	174	556	6:57	1	1.532	A BB	101831.	52.623 UG/L	1.23
33	83	588	7:21	14	1.190	A BB	142834.	49.333 UG/L	1.16
34	63	641	8:01	14	1.298	A BV	39547.	53.186 UG/L	1.25
35	75	645	8:04	14	1.306	A BB	131353.	50.442 UG/L	1.18
36	43	679	8:29	29	0.785	A BB	73161.	47.529 UG/L	1.11
37	92	677	8:28	29	0.783	A BB	133030.	47.865 UG/L	1.12
38	75	727	9:05	14	1.472	A BB	63611.	49.490 UG/L	1.16
39	97	747	9:20	14	1.512	A BB	72457.	50.583 UG/L	1.19
40	69	753	9:25	29	0.871	A BB	93484.	52.640 UG/L	1.23
41	164	744	9:18	29	0.860	A BB	106107.	46.866 UG/L	1.10

NO	N/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	ΣTOT
42	43	796	9:57	29	0.920	A BB	44058.	50.650 UO/L	1.19
43	129	793	9:58	14	1.609	A BB	140794.	50.290 UO/L	1.18
44	107	796	9:57	14	1.611	A BB	120748.	50.066 UO/L	1.17
45	112	868	10:51	29	1.003	A BB	196002.	48.241 UO/L	1.13
46	131	889	11:07	14	1.800	A BB	132843.	52.721 UO/L	1.24
47	106	892	11:09	29	1.031	A BV	86875.	47.837 UO/L	1.12
48	106	912	11:24	29	1.054	A VB	194491.	50.796 UO/L	1.19
49	106	966	12:04	29	1.117	A BB	138984.	51.062 UO/L	1.20
50	104	972	12:09	29	1.124	A BB	228805.	52.024 UO/L	1.22
51	173	993	12:25	14	2.010	A BB	108429.	48.765 UO/L	1.14
52	88	1051	13:08	14	2.128	A BB	38411.	51.545 UO/L	1.21
53	110	1083	13:32	29	1.252	A BB	43543.	51.838 UO/L	1.22
54	83	1090	13:37	29	1.260	A BB	96679.	48.294 UO/L	1.13
55	53	1097	13:43	29	1.268	A BB	34043.	51.618 UO/L	1.21
56	157	1402	17:31	29	1.621	A BB	47205.	108.764 UO/L	2.55
57	69	431	5:23	1	1.187	A BB	112182.	51.866 UO/L	1.22
58	95	1049	13:04	29	1.208	A BB	149549.	51.210 UO/L	1.20
59	98	669	8:22	29	0.773	A BB	224562.	50.962 UO/L	1.19

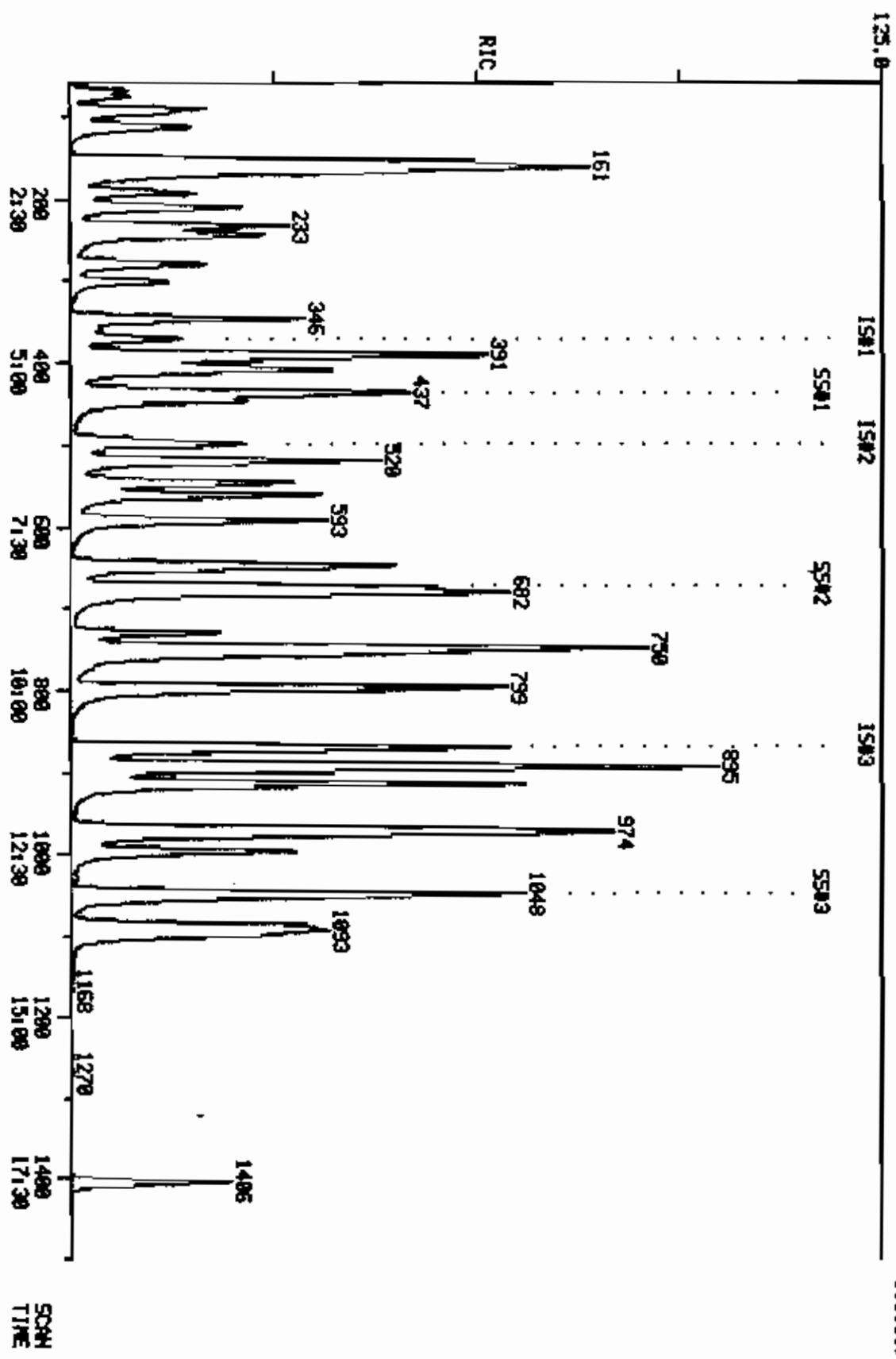
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:39	0.98	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:52	0.97	10.000	0.02	53.52	50.00	1.166	1.089	1.07
3	0:58	0.97	10.000	0.02	60.98	50.00	0.771	-0.632	1.22
4	1:09	0.97	10.000	0.02	56.84	50.00	1.524	1.341	1.14
5	1:14	0.97	10.000	0.03	55.95	50.00	0.915	0.818	1.12
6	1:25	0.99	10.000	0.03	59.00	50.00	2.098	1.778	1.18
7	1:56	0.99	100.000	0.00	487.15	500.01	0.100	0.103	0.97
8	1:57	0.98	5.000	0.08	47.42	50.00	1.327	1.399	0.95
9	2:04	0.98	5.000	0.09	54.46	50.00	3.842	3.528	1.09
10	2:04	0.99	10.000	0.04	53.58	50.00	2.424	2.262	1.07
11	2:02	0.98	10.000	0.04	49.94	50.00	0.787	0.788	1.00
12	2:03		10.000			50.00		0.820	
13	2:10	0.98	10.000	0.05	57.93	50.00	0.414	0.358	1.16
14	6:13	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	2:25	0.98	10.000	0.05	52.22	50.00	0.344	0.330	1.04
16	2:38	0.98	5.000	0.11	49.00	50.00	1.272	1.298	0.98
17	2:56	0.98	5.000	0.13	48.82	50.00	1.267	1.298	0.98
18	3:03	0.98	100.000	0.01	474.56	500.01	0.221	0.233	0.95
19	3:31	0.98	5.000	0.15	31.85	50.00	1.356	2.128	0.64
20	3:47	0.97	10.000	0.06	52.85	50.00	0.685	0.648	1.06
21	4:20	0.97	5.000	0.19	46.10	50.00	1.508	1.635	0.92
22	4:31	0.98	10.000	0.10	49.08	50.00	0.100	0.102	0.98
23	4:53	0.98	5.000	0.21	47.75	50.00	2.618	2.741	0.95
24	4:55	0.97	5.000	0.16	48.46	50.00	0.651	0.672	0.97
25	5:07	0.98	5.000	0.16	47.68	50.00	0.674	0.706	0.95
26	5:27	0.98	5.000	0.17	48.92	50.00	0.767	0.784	0.98
27	5:37	0.98	5.000	0.24	48.49	50.00	1.885	1.944	0.97
28	6:11	0.99	100.000	0.01	463.61	500.01	0.017	0.019	0.93
29	10:52	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	6:30	0.99	5.000	0.21	50.59	50.00	0.469	0.464	1.01
31	6:51	0.99	5.000	0.22	49.46	50.00	0.313	0.317	0.99
32	7:02	0.99	5.000	0.31	52.62	50.00	1.762	1.674	1.05
33	7:25	0.99	5.000	0.24	49.33	50.00	0.625	0.624	0.99
34	8:04	0.99	10.000	0.13	53.19	50.00	0.173	0.163	1.06
35	8:08	0.99	5.000	0.26	50.44	50.00	0.575	0.570	1.01
36	8:33	0.99	10.000	0.08	47.53	50.00	0.367	0.386	0.95

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	8:32	0.99	5.000	0.16	47.87	50.00	0.668	0.698	0.96
38	9:10	0.99	5.000	0.29	49.49	50.00	0.278	0.281	0.99
39	9:25	0.99	5.000	0.30	50.58	50.00	0.317	0.314	1.01
40	9:29	0.99	10.000	0.09	52.64	50.00	0.469	0.446	1.09
41	9:22	0.99	5.000	0.17	46.87	50.00	0.533	0.568	0.94
42	10:00	0.99	10.000	0.09	50.65	50.00	0.231	0.228	1.01
43	9:58	0.99	5.000	0.32	50.29	50.00	0.616	0.613	1.01
44	10:01	0.99	5.000	0.32	50.07	50.00	0.529	0.528	1.00
45	10:55	0.99	5.000	0.20	48.24	50.00	0.984	1.020	0.96
46	11:10	1.00	5.000	0.36	52.72	50.00	0.581	0.551	1.05
47	11:13	0.99	5.000	0.21	47.84	50.00	0.436	0.456	0.96
48	11:27	1.00	5.000	0.21	50.80	50.00	0.776	0.763	1.02
49	12:07	1.00	5.000	0.22	51.06	50.00	0.698	0.683	1.02
50	12:12	1.00	5.000	0.22	52.02	50.00	1.149	1.104	1.04
51	12:28	1.00	5.000	0.40	48.77	50.00	0.479	0.487	0.98
52	13:10	1.00	10.000	0.21	51.54	50.00	0.168	0.163	1.03
53	13:35	1.00	10.000	0.13	51.84	50.00	0.219	0.211	1.04
54	13:40	1.00	5.000	0.25	48.29	50.00	0.485	0.503	0.97
55	13:46	1.00	10.000	0.13	51.62	50.00	0.171	0.166	1.03
56	17:34	1.00	10.000	0.16	108.76	100.00	0.118	0.109	1.09
57	5:29	0.98	5.000	0.24	51.87	50.00	1.941	1.871	1.04
58	13:06	1.00	5.000	0.24	51.21	50.00	0.751	0.733	1.02
59	8:26	0.99	5.000	0.13	50.96	50.00	1.127	1.106	1.02

RIC
10/31/89 10:15:00
SAMPLE1 SWL EPA ID#USTD100 STD#1983 QM#18
COND.S.1

COMPUCHEN LABS
COMPUCHEN DATA: CUB91031918 SQ#45 59 TO 1500

383360.



QUANTITATION REPORT FILE: CUB91031A18
DATA: CUB91031A18.T1
10/31/89 10:15:00
SAMPLE: 5ML EPA ID#VSTD100 STD#1903 DN#18
CONDS. :
SUBMITTED BY: 18 ANALYST: 1577

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (18) <75-97-5> WE#1
2	221 CHLOROPETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
9	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLORFLUOROMETHANE <75-69-4> WE#6
7	201 ACRYLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	289 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-9> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (18) <540-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-9> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 C18-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 O5-CHLOROBENZENE (18) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 C18-1,3-DICHLOROPROPENE <10061-1-9> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <991-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M,P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 D4-1,2-DICHLOROETHANE WE#57
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58
 59 #233 DB-TOLUENE WE#59

OKS
 10-11-89
 12:18

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	371	4:38	1	1.000	A BB	55600.	50.000 UG/L	0.58
2	50	69	0:52	1	0.186	A BB	103106.	79.543 UG/L	0.93
3	62	77	0:58	1	0.208	A BV	83960.	97.885 UG/L	1.14
4	94	90	1:07	1	0.243	A BB	139984.	82.602 UG/L	0.96
5	64	97	1:13	1	0.261	A BB	82394.	80.961 UG/L	0.94
6	101	113	1:25	1	0.305	A BB	215452.	92.359 UG/L	1.07
7	56	154	1:55	1	0.415	A BB	108588.	972.636 UG/L	11.31
8	96	154	1:55	1	0.415	A BB	150748.	102.136 UG/L	1.19
9	76	162	2:01	1	0.437	A BB	405953.	95.007 UG/L	1.11
10	142	162	2:01	1	0.437	A BB	230567.	85.541 UG/L	1.00
11	117	160	2:00	1	0.431	M XX	74426.	85.032 UG/L	0.99
12	85	161	2:01	1	0.434	M XX	79870.	83.532 UG/L	0.97
13	43	174	2:10	1	0.469	A VB	42341.	91.899 UG/L	1.07
14	114	500	6:15	14	1.000	A BB	211108.	50.000 UG/L	0.58
15	76	192	2:24	1	0.518	A BB	37580.	98.179 UG/L	1.14
16	84	209	2:37	1	0.563	A BB	143601.	101.502 UG/L	1.18
17	96	233	2:55	1	0.628	A BB	149553.	106.144 UG/L	1.23
18	53	244	3:03	1	0.658	A BB	265137.	1077.440 UG/L	12.53
19	63	280	3:30	1	0.755	A BB	231646.	153.641 UG/L	1.79
20	43	301	3:46	14	0.602	A BB	287734.	99.557 UG/L	1.16
21	96	346	4:19	1	0.933	A BB	177889.	106.106 UG/L	1.23
22	72	361	4:31	1	0.973	A VV	11251.	101.028 UG/L	1.18
23	83	391	4:53	1	1.034	A BB	285210.	97.984 UG/L	1.14
24	97	393	4:55	14	0.786	A BB	296082.	107.743 UG/L	1.23
25	117	408	5:06	14	0.816	A VB	298932.	105.103 UG/L	1.22
26	78	436	5:27	14	0.872	A BB	346421.	107.000 UG/L	1.24
27	62	448	5:36	1	1.208	A BB	209088.	99.732 UG/L	1.16
28	70	495	6:11	14	0.990	A BV	73117.	1004.030 UG/L	11.68
29	117	869	10:52	29	1.000	A BB	181902.	50.000 UG/L	0.58
30	130	520	6:30	14	1.040	A BB	193258.	97.576 UG/L	1.14
31	63	547	6:50	14	1.094	A BB	131632.	99.452 UG/L	1.16
32	174	562	7:01	1	1.515	A BB	173010.	88.317 UG/L	1.03
33	83	593	7:25	14	1.186	A BB	277820.	105.246 UG/L	1.22
34	63	646	8:04	14	1.292	A BB	71557.	97.906 UG/L	1.14
35	75	650	8:07	14	1.300	A BB	259036.	106.707 UG/L	1.24
36	43	683	8:32	29	0.786	A BB	138324.	103.514 UG/L	1.20
37	92	682	8:31	29	0.785	A BB	262463.	108.020 UG/L	1.26
38	73	731	9:08	14	1.462	A BB	130026.	110.604 UG/L	1.29
39	97	751	9:23	14	1.502	A BB	132200.	98.724 UG/L	1.15
40	69	758	9:28	29	0.872	A BB	169319.	99.164 UG/L	1.15
41	164	749	9:22	29	0.862	A BB	195635.	100.946 UG/L	1.17

NO	K/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	XTOT
42	43	800	10:00	29	0.921	A BB	83219.	98.919 UG/L	1.19
43	129	797	9:58	14	1.594	A BB	269429.	103.546 UG/L	1.20
44	107	800	10:00	14	1.600	A BB	214969.	96.332 UG/L	1.12
45	112	872	10:54	29	1.003	A BB	368706.	102.992 UG/L	1.20
46	131	893	11:10	14	1.786	A BB	226578.	92.289 UG/L	1.07
47	106	896	11:12	29	1.031	A BV	167622.	105.638 UG/L	1.23
48	106	915	11:26	29	1.053	A VB	272996.	96.747 UG/L	1.13
49	106	970	12:07	29	1.116	A BB	244559.	96.338 UG/L	1.12
50	104	976	12:12	29	1.123	A BB	408416.	97.729 UG/L	1.14
51	173	996	12:27	14	1.992	A BB	223152.	111.359 UG/L	1.30
52	88	1054	13:10	14	2.108	A BB	70402.	99.174 UG/L	1.15
53	110	1088	13:36	29	1.292	A BB	74866.	94.135 UG/L	1.10
54	83	1095	13:41	29	1.260	A BB	190424.	107.843 UG/L	1.29
55	53	1101	13:46	29	1.267	A BV	64661.	103.992 UG/L	1.21
56	157	1406	17:34	29	1.618	A BB	92334.	214.184 UG/L	2.49
57	65	438	5:28	1	1.181	A BB	207493.	96.147 UG/L	1.12
58	95	1048	13:06	29	1.206	A BB	275469.	100.849 UG/L	1.17
59	98	674	8:25	29	0.776	A BB	401720.	97.943 UG/L	1.14

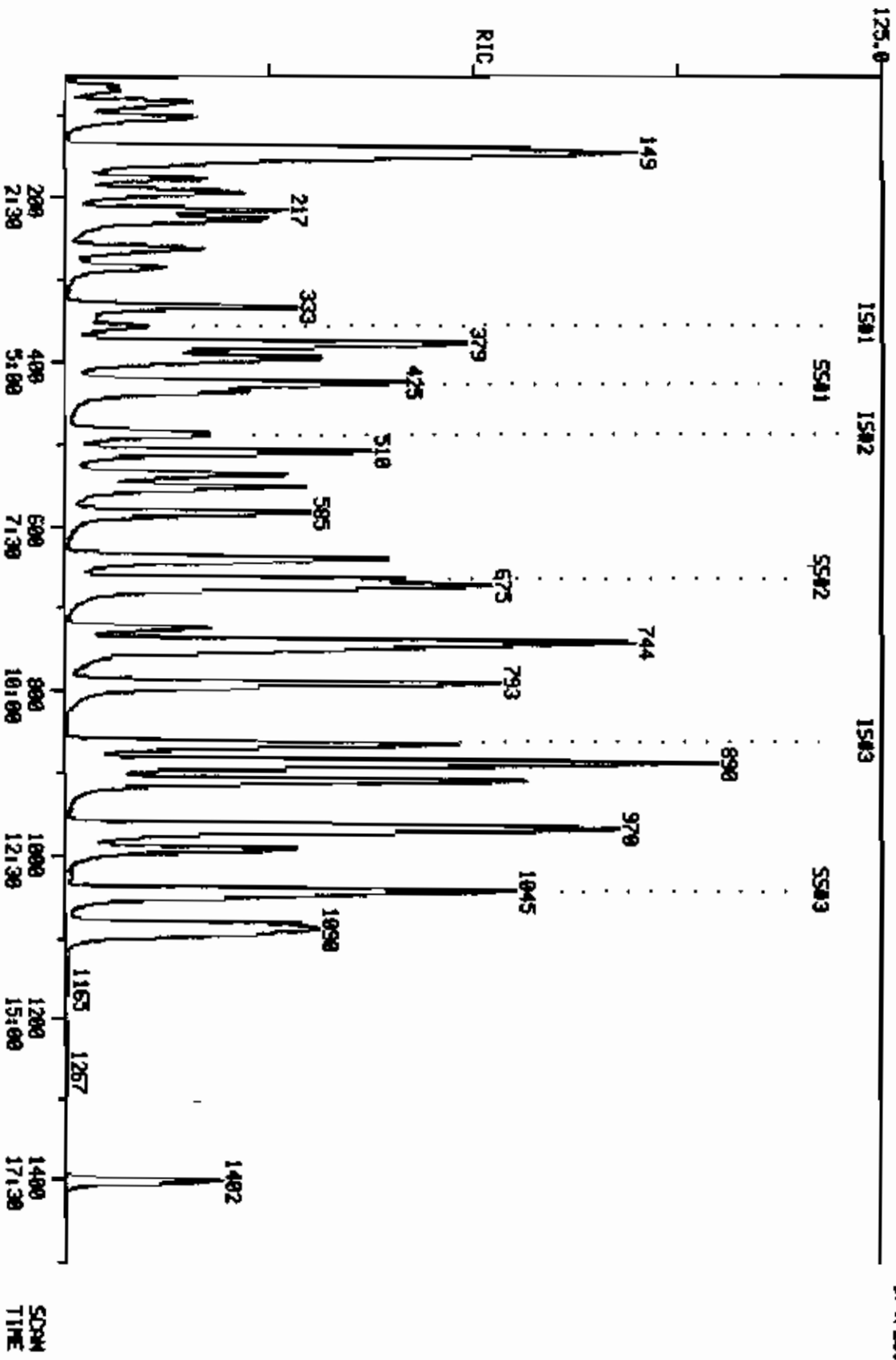
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:32	1.02	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51	1.01	10.000	0.02	79.94	50.00	1.854	1.166	1.59
3	0:57	1.01	10.000	0.02	97.89	50.00	1.510	0.771	1.96
4	1:07	1.01	10.000	0.02	82.60	50.00	2.518	1.524	1.69
5	1:12	1.01	10.000	0.03	80.96	50.00	1.482	0.915	1.62
6	1:25	1.00	10.000	0.03	92.36	50.00	3.875	2.098	1.85
7	1:55	1.01	100.000	0.00	972.64	500.01	0.199	0.100	1.95
8	1:55	1.01	5.000	0.08	102.14	50.00	2.711	1.327	2.04
9	2:02	0.99	5.000	0.09	95.01	50.00	7.301	3.843	1.90
10	2:02	0.99	10.000	0.04	85.94	50.00	4.147	2.424	1.71
11	2:00	1.00	10.000	0.04	85.03	50.00	1.339	0.787	1.70
12	2:02	0.99	10.000	0.04	83.53	50.00	1.437	0.860	1.67
13	2:07	1.02	10.000	0.05	91.90	50.00	0.762	0.414	1.84
14	6:10	1.01	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	2:23	1.01	10.000	0.05	98.18	50.00	0.676	0.344	1.96
16	2:35	1.01	5.000	0.11	101.50	50.00	2.583	1.272	2.03
17	2:52	1.01	5.000	0.13	106.14	50.00	2.690	1.267	2.12
18	2:59	1.02	100.000	0.01	1077.45	500.01	0.477	0.221	2.15
19	3:27	1.01	5.000	0.15	193.64	50.00	4.166	1.356	3.07
20	3:41	1.02	10.000	0.06	99.56	50.00	1.363	0.685	1.99
21	4:13	1.02	5.000	0.19	106.11	50.00	3.199	1.508	2.12
22	4:24	1.03	10.000	0.10	101.03	80.00	0.202	0.100	2.02
23	4:46	1.02	5.000	0.21	97.98	50.00	5.130	2.618	1.96
24	4:48	1.02	5.000	0.16	107.74	50.00	1.403	0.651	2.15
25	5:01	1.01	5.000	0.16	105.10	50.00	1.416	0.674	2.10
26	5:21	1.02	5.000	0.17	107.00	50.00	1.641	0.767	2.14
27	5:30	1.02	5.000	0.24	99.73	50.00	3.761	1.885	1.99
28	6:06	1.01	100.000	0.01	1004.03	500.01	0.035	0.017	2.01
29	10:49	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	6:25	1.01	5.000	0.21	97.58	50.00	0.919	0.469	1.95
31	6:46	1.01	5.000	0.22	99.45	50.00	0.624	0.313	1.99
32	6:57	1.01	5.000	0.30	88.32	50.00	3.112	1.762	1.77
33	7:21	1.01	5.000	0.24	105.25	50.00	1.316	0.625	2.10
34	8:01	1.01	10.000	0.13	97.91	50.00	0.339	0.173	1.96
35	8:04	1.01	5.000	0.26	106.71	50.00	1.227	0.575	2.13
36	8:29	1.01	10.000	0.08	103.51	50.00	0.760	0.367	2.07

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	8:28	1.01	5.000	0.16	108.02	50.00	1.443	0.668	2.16
38	9:05	1.01	5.000	0.29	110.60	50.00	0.616	0.278	2.21
39	9:20	1.01	5.000	0.30	98.72	50.00	0.626	0.317	1.97
40	9:25	1.01	10.000	0.09	99.16	50.00	0.931	0.469	1.98
41	9:18	1.01	5.000	0.17	100.95	50.00	1.075	0.533	2.02
42	9:57	1.01	10.000	0.09	98.92	50.00	0.457	0.231	1.98
43	9:55	1.01	5.000	0.32	103.55	50.00	1.276	0.616	2.07
44	9:57	1.01	5.000	0.32	96.33	50.00	1.018	0.529	1.93
45	10:51	1.00	5.000	0.20	102.99	50.00	2.027	0.984	2.06
46	11:07	1.00	5.000	0.36	92.29	50.00	1.073	0.581	1.85
47	11:09	1.00	5.000	0.21	109.64	50.00	0.921	0.436	2.11
48	11:24	1.00	5.000	0.21	96.75	50.00	1.501	0.776	1.93
49	12:04	1.00	5.000	0.22	96.34	50.00	1.344	0.698	1.93
50	12:09	1.00	5.000	0.22	97.73	50.00	2.245	1.149	1.95
51	12:25	1.00	5.000	0.40	111.36	50.00	1.057	0.475	2.23
52	13:08	1.00	10.000	0.21	99.17	50.00	0.333	0.168	1.98
53	13:32	1.00	10.000	0.13	94.13	50.00	0.412	0.219	1.88
54	13:37	1.00	5.000	0.25	107.84	50.00	1.047	0.485	2.16
55	13:43	1.00	10.000	0.13	103.99	50.00	0.355	0.171	2.08
56	17:31	1.00	10.000	0.16	214.18	100.00	0.254	0.118	2.14
57	9:23	1.02	5.000	0.24	96.15	50.00	3.732	1.941	1.92
58	13:04	1.00	5.000	0.24	100.85	50.00	1.514	0.751	2.02
59	8:22	1.01	5.000	0.16	97.94	50.00	2.208	1.127	1.96

RIC
10/31/89 9:32:00
SAMPLE: SWL EPA ID#ASTD150 STORE#004 DR#18
COND#.1

COMPUCHEN LABS
COMPUCHEN DATA: CT891031018 SCANS 33 TO 1500

574720.



QUANTITATION REPORT FILE: CT891031A18
DATA: CT891031A18.TI
10/31/89 9:32:00
SAMPLE: 5ML EPA ID#VSTD150 STD#1904 DN#18
CONDS.:
SUBMITTED BY: 18 ANALYST: 1977

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (18) <75-97-3> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (18) <340-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <96-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (18) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO	NAME
47	219 ETHYLBENZENE <100-41-4> WE#47
48	330 M,P-XYLENE <133-02-7> WE#48
49	239 O-XYLENE <133-02-7> WE#49
50	251 STYRENE <100-42-5> WE#50
51	205 BROMOFORM <75-25-2> WE#51
52	274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
53	273 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
54	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
55	290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
56	262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
57	8258 D4-1,2-DICHLOROETHANE WE#57
58	8247 BROMOFLUOROBENZENE <460-00-4> WE#58
59	8233 DB-TOLUENE WE#59

OKS
10/11/18
11/1/18

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	ZTOT
1	128	357	4:28	1	1.000	A BB	38564.	50.000 UG/L	0.41
2	30	69	0:49	1	0.182	A BB	137180.	100.474 UG/L	0.82
3	62	72	0:54	1	0.202	A BV	113135.	125.223 UG/L	1.02
4	94	85	1:04	1	0.238	A BB	197640.	110.722 UG/L	0.91
5	64	91	1:08	1	0.255	A VB	115599.	107.840 UG/L	0.88
6	101	104	1:18	1	0.291	A BB	336900.	137.111 UG/L	1.12
7	56	142	1:46	1	0.398	A BB	163227.	1388.040 UG/L	11.36
8	96	142	1:46	1	0.398	A BB	215703.	138.749 UG/L	1.14
9	76	151	1:53	1	0.423	A BB	654088.	145.332 UG/L	1.19
10	142	151	1:53	1	0.423	A BB	335459.	118.157 UG/L	0.97
11	117	147	1:50	1	0.412	M XX	119419.	129.531 UG/L	1.06
12	85	149	1:52	1	0.417	M XX	143946.	142.926 UG/L	1.17
13	43	162	2:01	1	0.454	A BB	62516.	128.820 UG/L	1.05
14	114	490	6:07	14	1.000	A BB	227927.	50.000 UG/L	0.41
15	76	177	2:13	1	0.496	A BB	60870.	150.978 UG/L	1.24
16	84	195	2:26	1	0.546	A BB	214964.	144.254 UG/L	1.18
17	96	217	2:43	1	0.608	A BB	229449.	154.607 UG/L	1.26
18	53	229	2:52	1	0.641	A BB	432681.	1669.310 UG/L	13.66
19	63	263	3:17	1	0.737	A BB	354371.	223.143 UG/L	1.83
20	43	286	3:34	14	0.584	A BB	461052.	147.755 UG/L	1.21
21	96	332	4:09	1	0.930	A BB	266315.	150.810 UG/L	1.23
22	72	349	4:22	1	0.978	A BB	18953.	161.574 UG/L	1.32
23	83	377	4:43	1	1.056	A BB	428584.	139.788 UG/L	1.14
24	97	380	4:45	14	0.776	A BB	436159.	147.004 UG/L	1.20
25	117	396	4:57	14	0.808	A VB	446718.	145.475 UG/L	1.19
26	78	424	5:18	14	0.865	A BB	518300.	148.275 UG/L	1.21
27	62	436	5:27	1	1.221	A BB	319730.	144.788 UG/L	1.18
28	70	485	6:04	14	0.990	A BB	108421.	1378.950 UG/L	11.28
29	117	864	10:48	29	1.000	A BB	190399.	50.000 UG/L	0.41
30	130	510	6:22	14	1.041	A BB	283667.	132.655 UG/L	1.09
31	63	537	6:43	14	1.096	A BB	198610.	138.982 UG/L	1.14
32	174	553	6:55	1	1.549	A BB	255762.	123.952 UG/L	1.01
33	83	585	7:19	14	1.194	A BB	409262.	143.599 UG/L	1.17
34	63	638	7:58	14	1.302	A BB	108421.	137.398 UG/L	1.12
35	75	643	8:02	14	1.312	A BB	385234.	146.982 UG/L	1.20
36	43	678	8:28	29	0.785	A BB	198883.	142.192 UG/L	1.16
37	92	675	8:26	29	0.781	A BB	373170.	146.729 UG/L	1.20
38	75	725	9:04	14	1.480	A BB	192917.	151.792 UG/L	1.24
39	97	746	9:19	14	1.522	A BB	208896.	144.488 UG/L	1.18
40	69	752	9:24	29	0.870	A BB	257041.	143.822 UG/L	1.18
41	164	742	9:16	29	0.859	A BB	280534.	138.293 UG/L	1.13

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	XTOT
42	43	795	9:56	29	0.920	A BB	131039.	148.818 UG/L	1.22
43	129	792	9:54	14	1.616	A BB	395311.	140.714 UG/L	1.15
44	107	799	9:56	14	1.622	A BB	322576.	133.885 UG/L	1.10
45	112	868	10:51	29	1.005	A BB	541753.	144.577 UG/L	1.18
46	131	888	11:06	14	1.812	A BB	329493.	124.304 UG/L	1.02
47	106	892	11:09	29	1.032	A BV	249479.	150.209 UG/L	1.23
48	106	911	11:23	29	1.054	A VB	417357.	141.307 UG/L	1.16
49	106	966	12:04	29	1.118	A BB	363790.	136.913 UG/L	1.12
50	104	971	12:08	29	1.124	A BB	619263.	140.655 UG/L	1.15
51	173	993	12:25	14	2.027	A BB	322668.	153.761 UG/L	1.26
52	88	1050	13:07	14	2.143	A BB	108010.	140.925 UG/L	1.15
53	110	1084	13:33	29	1.255	A BB	109946.	132.075 UG/L	1.08
54	83	1090	13:37	29	1.262	A BB	284268.	153.806 UG/L	1.26
55	53	1097	13:43	29	1.270	A BB	95729.	147.087 UG/L	1.20
56	157	1402	17:31	29	1.623	A BB	132622.	293.910 UG/L	2.40
57	65	427	5:20	1	1.196	A BB	316095.	139.057 UG/L	1.14
58	95	1044	13:03	29	1.208	A BB	417387.	145.986 UG/L	1.19
59	98	667	8:20	29	0.772	A BB	573893.	133.676 UG/L	1.09

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:32	0.98	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51	0.96	10.000	0.02	100.47	50.00	2.342	1.166	2.01
3	0:57	0.95	10.000	0.02	125.22	50.00	1.932	0.771	2.50
4	1:07	0.96	10.000	0.02	110.72	50.00	3.375	1.524	2.21
5	1:12	0.95	10.000	0.03	107.84	50.00	1.974	0.915	2.16
6	1:25	0.92	10.000	0.03	137.11	50.00	5.753	2.098	2.74
7	1:55	0.93	100.000	0.00	1388.05	500.01	0.279	0.100	2.78
8	1:55	0.93	5.000	0.08	138.75	50.00	3.683	1.327	2.77
9	2:02	0.93	5.000	0.08	145.33	50.00	11.169	3.843	2.91
10	2:02	0.93	10.000	0.04	118.16	50.00	5.728	2.424	2.36
11	2:00	0.92	10.000	0.04	129.53	50.00	2.039	0.787	2.59
12	2:02	0.91	10.000	0.04	142.93	50.00	2.458	0.860	2.86
13	2:07	0.95	10.000	0.03	128.82	50.00	1.067	0.414	2.58
14	6:10	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	2:23	0.93	10.000	0.05	150.98	50.00	1.039	0.344	3.02
16	2:35	0.94	5.000	0.11	144.25	50.00	3.671	1.272	2.89
17	2:52	0.94	5.000	0.12	154.61	50.00	3.918	1.267	3.09
18	2:59	0.96	100.000	0.01	1669.31	500.01	0.739	0.221	3.34
19	3:27	0.95	5.000	0.19	223.14	50.00	6.051	1.356	4.46
20	3:41	0.97	10.000	0.06	147.75	50.00	2.023	0.689	2.96
21	4:13	0.98	5.000	0.19	150.81	50.00	4.547	1.508	3.02
22	4:24	0.99	10.000	0.10	161.57	50.00	0.324	0.100	3.23
23	4:46	0.99	5.000	0.21	139.79	50.00	7.318	2.618	2.80
24	4:48	0.99	5.000	0.16	147.00	50.00	1.914	0.691	2.94
25	5:01	0.99	5.000	0.16	149.47	50.00	1.960	0.674	2.91
26	5:21	0.99	5.000	0.17	148.27	50.00	2.274	0.767	2.97
27	5:30	0.99	5.000	0.24	144.79	50.00	5.459	1.885	2.90
28	6:06	0.99	100.000	0.01	1378.96	500.01	0.048	0.017	2.76
29	10:49	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	6:25	0.99	5.000	0.21	132.65	50.00	1.245	0.469	2.65
31	6:46	0.99	5.000	0.22	138.98	50.00	0.871	0.313	2.78
32	6:57	0.99	5.000	0.31	123.95	50.00	4.367	1.762	2.48
33	7:21	0.99	5.000	0.24	143.60	50.00	1.796	0.625	2.87
34	8:01	1.00	10.000	0.13	137.40	50.00	0.476	0.173	2.75
35	8:04	1.00	5.000	0.26	146.98	50.00	1.690	0.575	2.94
36	8:29	1.00	10.000	0.08	142.19	50.00	1.045	0.367	2.84

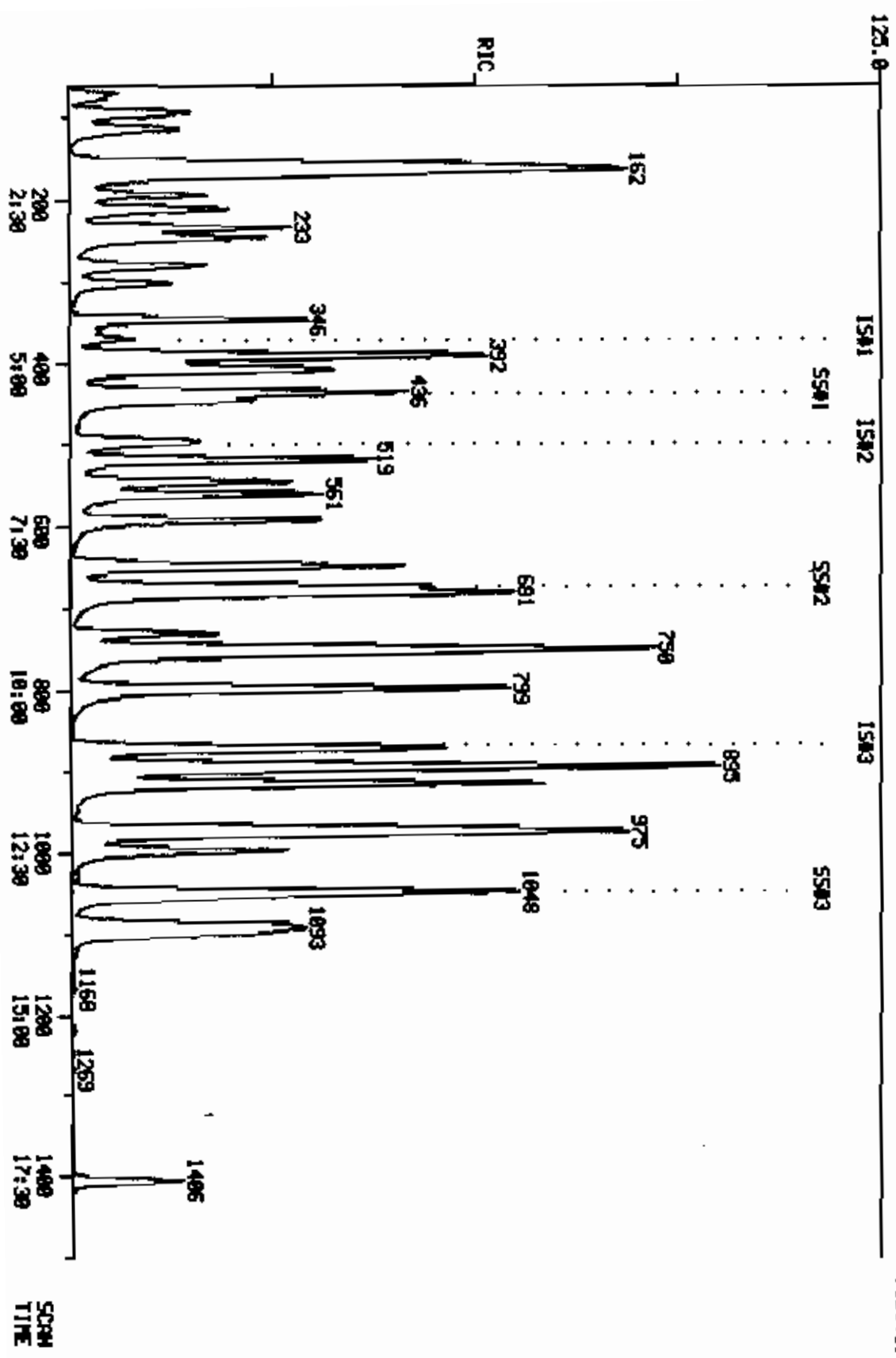
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	8:28	1.00	5.000	0.16	146.73	50.00	1.960	0.668	2.93
38	9:05	1.00	5.000	0.30	151.99	50.00	0.846	0.278	3.04
39	9:20	1.00	5.000	0.30	144.49	50.00	0.917	0.317	2.89
40	9:25	1.00	10.000	0.09	143.82	50.00	1.350	0.469	2.88
41	9:18	1.00	5.000	0.17	138.29	50.00	1.473	0.533	2.77
42	9:57	1.00	10.000	0.09	148.82	50.00	0.688	0.231	2.98
43	9:55	1.00	5.000	0.32	140.71	50.00	1.734	0.616	2.81
44	9:57	1.00	5.000	0.32	133.89	50.00	1.415	0.529	2.68
45	10:51	1.00	5.000	0.20	144.58	50.00	2.845	0.984	2.89
46	11:07	1.00	5.000	0.36	124.30	50.00	1.446	0.581	2.49
47	11:09	1.00	5.000	0.21	150.21	50.00	1.310	0.436	3.00
48	11:24	1.00	5.000	0.21	141.31	50.00	2.192	0.776	2.83
49	12:04	1.00	5.000	0.22	136.91	50.00	1.911	0.698	2.74
50	12:09	1.00	5.000	0.22	140.65	50.00	3.231	1.149	2.81
51	12:25	1.00	5.000	0.41	153.76	50.00	1.460	0.475	3.08
52	13:08	1.00	10.000	0.21	140.93	50.00	0.474	0.168	2.82
53	13:32	1.00	10.000	0.13	132.07	50.00	0.577	0.217	2.64
54	13:37	1.00	5.000	0.25	153.81	50.00	1.493	0.485	3.08
55	13:43	1.00	10.000	0.13	147.09	50.00	0.503	0.171	2.94
56	17:31	1.00	10.000	0.16	293.71	100.00	0.348	0.118	2.94
57	5:23	0.99	5.000	0.24	139.06	50.00	5.397	1.941	2.78
58	13:04	1.00	5.000	0.24	145.99	50.00	2.192	0.751	2.92
59	8:22	1.00	5.000	0.15	133.68	50.00	3.014	1.127	2.67

COMPUCHER LABS

COMPUCHER DATA C5891831A18 SCANS 68 TO 1380

RIC
10/31/89 01:50:00
SAMPLE: SWL EPA 10AUST02000 STD#15005 DM#18
COND.S:1

733040.



QUANTITATION REPORT FILE: C8891031A18
DATA: C8891031A18.TI
10/31/89 8:50:00
SAMPLE: 5ML EPA ID#VSTD200 STD#1905 DN#18
CONDE.:
SUBMITTED BY: 18 ANALYST: 1977

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (18) (75-97-5) WE#1
2	221 CHLOROMETHANE (74-87-3) WE#2
3	231 VINYL CHLORIDE (75-01-4) WE#3
4	220 BROMOMETHANE (78-83-9) WE#4
5	209 CHLOROETHANE (75-00-3) WE#5
6	230 TRICHLOROFLUOROMETHANE (75-69-4) WE#6
7	201 ACRYLEIN (107-02-8) WE#7
8	216 1,1-DICHLOROETHENE (75-35-4) WE#8
9	254 CARBON DISULFIDE (75-15-0) WE#9
10	289 IODOMETHANE (74-88-4) WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE (354-58-5) WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (76-13-1) WE#12
13	252 ACETONE (2-PROPANONE) (67-64-1) WE#13
14	*248 1,4-DIFLUOROBENZENE (18) (940-36-3) WE#14
15	298 3-CHLOROPROPENE (107-05-1) WE#15
16	222 METHYLENE CHLORIDE (75-09-2) WE#16
17	226 TRANS-1,2-DICHLOROETHENE (156-60-5) WE#17
18	202 ACRYLONITRILE (107-13-1) WE#18
19	214 1,1-DICHLOROETHANE (75-34-3) WE#19
20	257 VINYL ACETATE (108-05-4) WE#20
21	237 CIS-1,2-DICHLOROETHENE (156-59-2) WE#21
22	253 2-BUTANONE (78-93-3) WE#22
23	211 CHLOROFORM (67-66-2) WE#23
24	227 1,1,1-TRICHLOROETHANE (71-55-6) WE#24
25	206 CARBON TETRACHLORIDE (56-23-9) WE#25
26	203 BENZENE (71-43-2) WE#26
27	215 1,2-DICHLOROETHANE (107-06-2) WE#27
28	272 CROTONALDEHYDE (4170-30-3) WE#28
29	*270 D5-CHLOROBENZENE (18) (XXX-XX-X) WE#29
30	229 TRICHLOROETHENE (79-01-6) WE#30
31	217 1,2-DICHLOROPROPANE (78-87-5) WE#31
32	266 DIBROMOMETHANE (74-95-3) WE#32
33	212 BROMODICHLOROMETHANE (75-27-4) WE#33
34	210 2-CHLOROETHYL VINYL ETHER (110-75-8) WE#34
35	218 CIS-1,3-DICHLOROPROPENE (10061-1-9) WE#35
36	256 4-METHYL-2-PENTANONE (108-01-1) WE#36
37	225 TOLUENE (108-88-3) WE#37
38	250 TRANS-1,3-DICHLOROPROPENE (10061-02-6) WE#38
39	228 1,1,2-TRICHLOROETHANE (79-00-5) WE#39
40	287 ETHYLMETHACRYLATE (96-18-4) WE#40
41	224 TETRACHLOROETHENE (127-18-4) WE#41
42	255 2-HEXANONE (991-78-6) WE#42
43	208 DIBROMOCHLOROMETHANE (124-48-1) WE#43
44	245 1,2-DIBROMOETHANE (1060-93-4) WE#44
45	207 CHLOROBENZENE (108-90-7) WE#45
46	273 1,1,1,2-TETRACHLOROETHANE (630-20-6) WE#46

NO NAME
 47 219 ETHYLBENZENE (100-41-4) WE#47
 48 330 M,P-XYLENE (133-02-7) WE#48
 49 239 O-XYLENE (133-02-7) WE#49
 50 251 STYRENE (100-42-5) WE#50
 51 209 BROMOFORM (75-25-2) WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE (764-71-0) WE#52
 53 275 1,2,3-TRICHLOROPROPANE (96-18-4) WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE (79-34-5) WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE (110-57-6) WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE (96-12-8) WE#56
 57 #258 D4-1,2-DICHLOROETHANE WE#57
 58 #247 BROMOFLUOROBENZENE (460-00-4) WE#58
 59 B233 DB-TOLUENE WE#59

OKS
11/1/81

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HIGHT)	AMOUNT	XTOT
1	128	371	4:38	1	1.000	A BB	56680.	50.000 UG/L	0.31
2	50	70	0:52	1	0.189	A BB	167302.	126.609 UG/L	0.79
3	62	77	0:58	1	0.208	A BB	82295.	94.116 UG/L	0.58
4	94	91	1:08	1	0.245	A BB	264967.	153.374 UG/L	0.95
5	64	97	1:13	1	0.261	A BB	155544.	149.927 UG/L	0.93
6	101	112	1:24	1	0.302	A BB	408381.	171.727 UG/L	1.07
7	56	156	1:57	1	0.420	A BB	202357.	1778.000 UG/L	11.03
8	96	154	1:55	1	0.415	A BB	284917.	189.362 UG/L	1.17
9	76	163	2:02	1	0.439	A BB	869884.	199.704 UG/L	1.24
10	142	163	2:02	1	0.439	A BB	466542.	169.791 UG/L	1.05
11	117	160	2:00	1	0.431	M XX	161445.	180.936 UG/L	1.12
12	85	161	2:01	1	0.434	M XX	179139.	183.782 UG/L	1.14
13	43	177	2:13	1	0.477	A VB	62161.	132.346 UG/L	0.82
14	114	499	6:14	14	1.000	A BB	218036.	50.000 UG/L	0.31
15	76	193	2:25	1	0.520	A BB	81506.	208.881 UG/L	1.30
16	84	210	2:37	1	0.566	A BB	258852.	179.479 UG/L	1.11
17	96	233	2:55	1	0.628	A BB	294092.	204.752 UG/L	1.27
18	53	245	3:04	1	0.640	A BB	545975.	2174.830 UG/L	13.49
19	63	279	3:29	1	0.752	A BB	449554.	292.489 UG/L	1.81
20	43	302	3:46	14	0.605	A BB	586286.	196.412 UG/L	1.22
21	96	346	4:19	1	0.933	A BB	359217.	210.181 UG/L	1.30
22	72	341	4:31	1	0.973	A VB	23249.	204.786 UG/L	1.27
23	83	390	4:52	1	1.051	A BB	563567.	189.925 UG/L	1.18
24	97	392	4:54	14	0.786	A BB	582363.	205.185 UG/L	1.27
25	117	408	5:06	14	0.818	A VB	593385.	202.003 UG/L	1.25
26	78	435	5:26	14	0.872	A BB	681753.	203.883 UG/L	1.26
27	62	447	5:35	1	1.205	A BB	423830.	198.309 UG/L	1.23
28	70	495	6:11	14	0.992	A BB	142063.	1888.800 UG/L	11.71
29	117	869	10:52	29	1.000	A BB	184026.	50.000 UG/L	0.31
30	130	518	6:28	14	1.038	A BB	362475.	186.976 UG/L	1.16
31	63	546	6:49	14	1.094	A BB	256654.	187.747 UG/L	1.16
32	174	561	7:01	1	1.512	A BB	348338.	174.428 UG/L	1.08
33	83	592	7:24	14	1.186	A BB	541327.	198.553 UG/L	1.23
34	63	645	8:04	14	1.293	A BB	143036.	189.488 UG/L	1.18
35	75	649	8:07	14	1.301	A BB	506945.	202.195 UG/L	1.25
36	43	683	8:32	29	0.786	A BB	268399.	198.938 UG/L	1.23
37	92	681	8:31	29	0.784	A BB	520257.	211.648 UG/L	1.31
38	75	731	9:08	14	1.465	A BB	255762.	210.645 UG/L	1.31
39	97	752	9:24	14	1.507	A BB	256052.	185.138 UG/L	1.19
40	69	758	9:28	29	0.872	A BB	352910.	204.071 UG/L	1.27
41	164	749	9:22	29	0.863	A BB	380326.	193.980 UG/L	1.20

NO	M/E	BCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	%TOT
42	43	799	9:59	29	0.919	A BB	172151.	202.278 UG/L	1.25
43	129	797	9:58	14	1.597	A BB	506369.	188.422 UG/L	1.17
44	107	800	10:00	14	1.603	A BB	428944.	186.110 UG/L	1.13
45	112	872	10:54	29	1.003	A BB	712235.	196.656 UG/L	1.22
46	131	893	11:10	14	1.790	A BB	442402.	174.472 UG/L	1.08
47	106	896	11:12	29	1.031	A BV	335896.	209.244 UG/L	1.30
48	106	915	11:26	29	1.053	A VB	550859.	192.966 UG/L	1.20
49	106	970	12:07	29	1.116	A BB	480638.	187.153 UG/L	1.16
50	104	975	12:11	29	1.122	A BB	799177.	189.026 UG/L	1.17
51	173	997	12:28	14	1.998	A BB	408702.	197.474 UG/L	1.22
52	88	1054	13:10	14	2.112	A BB	137784.	187.928 UG/L	1.17
53	110	1087	13:35	29	1.251	A BB	138191.	171.753 UG/L	1.07
54	83	1094	13:40	29	1.259	A BB	335334.	187.719 UG/L	1.16
55	53	1100	13:45	29	1.266	A BB	122917.	195.402 UG/L	1.21
56	157	1405	17:34	29	1.617	A BB	125747.	288.325 UG/L	1.79
57	65	438	3:28	1	1.181	A BB	421291.	191.495 UG/L	1.19
58	95	1048	13:06	29	1.206	A BB	537530.	194.519 UG/L	1.21
59	98	673	8:25	29	0.774	A BB	829218.	199.838 UG/L	1.24

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:32	1.02	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51	1.03	10.000	0.02	126.61	50.00	2.952	1.166	2.53
3	0:57	1.01	10.000	0.02	94.12	50.00	1.452	0.771	1.88
4	1:07	1.02	10.000	0.02	153.37	50.00	4.675	1.324	3.07
5	1:12	1.01	10.000	0.03	149.93	50.00	2.744	0.915	3.00
6	1:25	0.99	10.000	0.03	171.73	50.00	7.205	2.098	3.43
7	1:55	1.02	100.000	0.00	1778.00	500.01	0.357	0.100	3.56
8	1:55	1.01	5.000	0.08	189.36	50.00	5.027	1.327	3.79
9	2:02	1.00	5.000	0.09	199.70	50.00	13.347	3.843	3.99
10	2:02	1.00	10.000	0.04	169.79	50.00	8.231	2.424	3.40
11	2:00	1.00	10.000	0.04	180.94	50.00	2.848	0.787	3.62
12	2:02	0.99	10.000	0.04	183.78	50.00	3.161	0.860	3.68
13	2:07	1.04	10.000	0.03	132.35	50.00	1.097	0.414	2.65
14	6:10	1.01	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	2:23	1.01	10.000	0.05	208.88	50.00	1.438	0.344	4.18
16	2:35	1.01	5.000	0.11	179.48	50.00	4.567	1.272	3.59
17	2:52	1.01	5.000	0.13	204.75	50.00	5.189	1.267	4.10
18	2:59	1.03	100.000	0.01	2174.83	500.01	0.963	0.221	4.39
19	3:27	1.01	5.000	0.15	292.49	50.00	7.931	1.356	5.89
20	3:41	1.02	10.000	0.06	196.41	50.00	2.689	0.685	3.93
21	4:13	1.02	5.000	0.19	210.18	50.00	6.338	1.508	4.20
22	4:24	1.03	10.000	0.10	204.79	50.00	0.410	0.100	4.10
23	4:46	1.02	5.000	0.21	189.92	50.00	9.945	2.618	3.80
24	4:48	1.02	5.000	0.16	205.19	50.00	2.671	0.651	4.10
25	5:01	1.01	5.000	0.16	202.00	50.00	2.722	0.674	4.04
26	5:21	1.02	5.000	0.17	203.88	50.00	3.127	0.767	4.08
27	5:30	1.02	5.000	0.24	198.31	50.00	7.478	1.885	3.97
28	6:06	1.01	100.000	0.01	1888.81	500.01	0.065	0.017	3.78
29	10:49	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	6:25	1.01	5.000	0.21	186.98	50.00	1.754	0.469	3.74
31	6:46	1.01	5.000	0.22	187.75	50.00	1.177	0.313	3.75
32	6:57	1.01	5.000	0.30	174.43	50.00	6.146	1.762	3.49
33	7:21	1.01	5.000	0.24	198.55	50.00	2.483	0.625	3.97
34	8:01	1.01	10.000	0.13	189.49	50.00	0.656	0.173	3.79
35	8:04	1.01	5.000	0.26	202.19	50.00	2.325	0.575	4.04
36	8:29	1.01	10.000	0.08	198.54	50.00	1.458	0.367	3.97

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	8:28	1.01	9.000	0.16	211.65	50.00	2.827	0.668	4.23
38	9:09	1.01	9.000	0.29	210.65	50.00	1.173	0.278	4.21
39	9:20	1.01	9.000	0.30	185.14	50.00	1.174	0.317	3.70
40	9:25	1.01	10.000	0.09	204.07	50.00	1.716	0.469	4.08
41	9:18	1.01	9.000	0.17	193.98	50.00	2.067	0.533	3.88
42	9:57	1.00	10.000	0.09	202.28	50.00	0.735	0.231	4.05
43	9:55	1.01	9.000	0.32	188.42	50.00	2.322	0.616	3.77
44	9:57	1.01	9.000	0.32	186.11	50.00	1.967	0.529	3.72
45	10:51	1.00	9.000	0.20	196.66	50.00	3.870	0.984	3.93
46	11:07	1.00	9.000	0.36	174.47	50.00	2.029	0.581	3.49
47	11:09	1.00	9.000	0.21	209.24	50.00	1.825	0.436	4.18
48	11:24	1.00	9.000	0.21	192.97	50.00	2.993	0.776	3.86
49	12:04	1.00	9.000	0.22	187.15	50.00	2.612	0.698	3.74
50	12:09	1.00	9.000	0.22	189.03	50.00	4.343	1.149	3.78
51	12:25	1.00	9.000	0.40	197.47	50.00	1.874	0.475	3.95
52	13:08	1.00	10.000	0.21	187.93	50.00	0.632	0.168	3.76
53	13:32	1.00	10.000	0.13	171.75	50.00	0.751	0.219	3.44
54	13:37	1.00	9.000	0.25	187.72	50.00	1.822	0.485	3.75
55	13:43	1.00	10.000	0.13	195.40	50.00	0.668	0.171	3.91
56	17:31	1.00	10.000	0.16	288.33	100.00	0.342	0.118	2.88
57	3:23	1.02	9.000	0.24	191.50	50.00	7.433	1.941	3.83
58	13:04	1.00	9.000	0.24	194.52	50.00	2.921	0.751	3.89
59	8:22	1.01	9.000	0.15	199.84	50.00	4.506	1.127	4.00

COMPUCHEM LABORATORIES, INC.
GC/MS ANALYSIS LOG

INITIAL TIME OF TUNE 6:43 ^{07.11.89}
TIME TIME EXPRES 18:43

SHEET(S) (A) (B) (C)
DATE 10-31-89
ANALYSIS TYPE WELL

V-5

RUN LOG		PREVENTIVE MAINTENANCE										
FILE NAME	DATE	TIME	EPA ID	CASE NO.	STD ID #	ANALYTES NEEDED	CHEMIST	COMMENTS (Lot #, Dispersion, Etc.)				
BA891031A18	11/1	6:43	MBB			2ul	1472	* 30366				
CX891031C18	11/1	6:58	VSTD050		1902	5ul	1472					
CY891031C18	11/1	7:38	VSTD050		1902	5ul	1472					
CS891031A18	11/1	8:50	VSTD0200		1905	5ul	1577					
CT891031A18	11/1	9:32	VSTD0150		1904	5ul	1577					
CU891031A18	11/1	10:15	VSTD0100		1903	5ul	1577					
CV891031A18	11/1	11:07	VSTD020		1901	5ul	1577					
			MIP	Good								

RC 10-31-89

VERIFIED DK M. 11-5-89
SUPERVISOR APPROVAL HT 11-5-89

- (2) Continuing Calibration (Form VII VOA) - In order by instrument, if more than one instrument used.
- (a) VOA standard (s) reconstructed ion chromatograms and quantitation reports (or legible facsimile) for all continuing (12 hour) calibrations. Spectra are not required.
 - (b) When more than one continuing calibration is performed, forms must be chronological order, within fraction and instrument.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Instrument ID: 12 Calibration date: 11/15/89 Time: 0136
 Lab File ID: CS891115C12 Init. Calib. Date(s): 10/19/89 10/20/89
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP
 Min RRF50 for SPCC(#) = 0.100 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

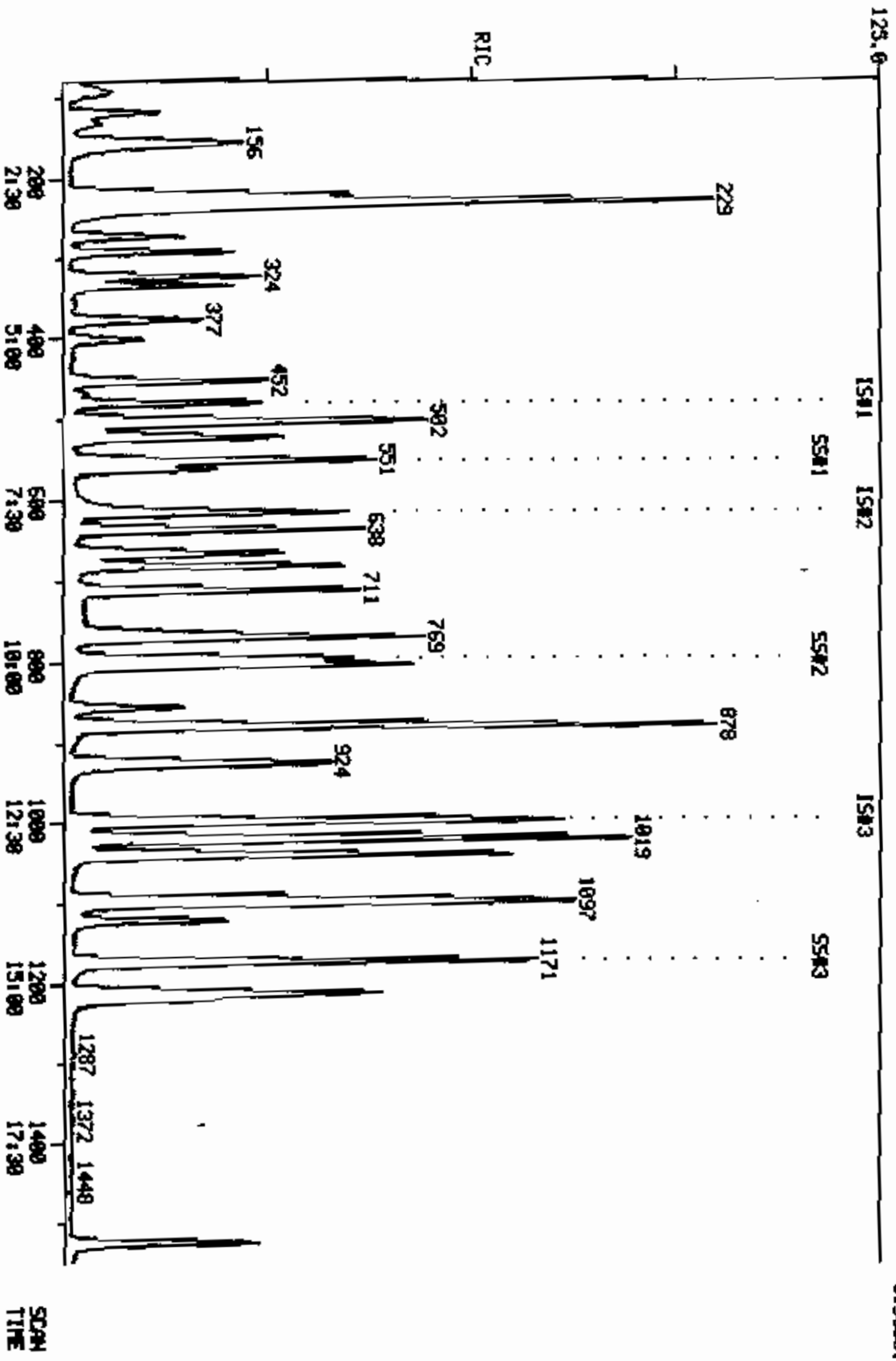
COMPOUND	RRF	RRF50	%D
Chloromethane	0.763	0.727	4.7
Bromomethane	0.988	1.307	-32.3
Vinyl Chloride	0.929	1.078	-16.0
Chloroethane	0.474	0.609	-28.5
Methylene Chloride	1.257	1.456	-15.8
Acetone	0.259	0.213	17.8
Carbon Disulfide	3.830	3.767	1.6
1,1-Dichloroethene	1.309	1.442	-10.2
1,1-Dichloroethane	2.793	2.423	13.1
1,2-Dichloroethene (total)	2.954	3.283	-11.1
Chloroform	3.591	3.164	11.9
1,2-Dichloroethane	2.990	2.452	18.0
2-Butanone	0.082	0.128	-56.1
1,1,1-Trichloroethane	0.720	0.842	-16.9
Carbon Tetrachloride	0.727	0.716	1.5
Vinyl Acetate	0.618	0.534	13.6
Bromodichloromethane	0.979	0.918	6.2
1,2-Dichloropropane	0.370	0.355	4.1
cis-1,3-Dichloropropene	0.689	0.916	-33.0
Trichloroethene	0.441	0.469	-6.3
Dibromochloromethane	0.472	0.475	-0.6
1,1,2-Trichloroethane	0.235	0.346	-47.2
Benzene	0.678	0.881	-30.2
Trans-1,3-Dichloropropene	0.327	0.380	-16.2
Bromoform	0.354	0.365	-3.1
4-Methyl-2-Pentanone	0.271	0.199	26.6
2-Hexanone	0.152	0.148	2.6
Tetrachloroethene	0.519	0.515	0.8
1,1,2,2-Tetrachloroethane	0.597	0.575	3.7
Toluene	0.784	0.815	-4.0
Chlorobenzene	0.946	0.988	-4.4
Ethylbenzene	0.438	0.485	-10.7
Styrene	1.079	1.058	1.9
Total Xylenes	1.419	1.423	-0.3
Toluene-d8	1.192	1.231	-3.1
BFB	0.937	0.912	2.7
1,2-Dichloroethane-d4	2.705	2.355	12.9

FORM VII VOA

1/87 Rev.

RIC
 11/15/89 1:36:00
 SAMPLE: SWL USTUD050 #1982 ON #12
 COND5.1

COMPUCHEN LABS
 COMPUCHEN DATA: C569111SC12 SCANS 79 TO 1530
 319688.



QUANTITATION REPORT FILE: C8891115C12
DATA: C8891115C12.T1
11/15/89 1:36:00
SAMPLE: 5ML VSTD050 01902 ON 012
CONDB.:
SUBMITTED BY: 12 ANALYST: 1539

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACRYLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-95-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <991-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO	NAME
47	219 ETHYLBENZENE <100-41-4> WE#47
48	330 M,P-XYLENE <133-02-7> WE#48
49	239 O-XYLENE <133-02-7> WE#49
50	251 STYRENE <100-42-5> WE#50
51	205 BROMOFORM <75-25-2> WE#51
52	274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
53	275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
54	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
55	290 TRANS-1,4-DICHLORO-2-BUTENE <110-97-6> WE#55
56	262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
57	#258 D4-1,2-DICHLOROETHANE WE#57
58	#247 BROMOFLUOROBENZENE <460-00-4> WE#58
59	#233 D8-TOLUENE WE#59

*Substance
11-15-89*

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	480	6:00	1	1.000	A BB	72941.	50.000 UG/L	1.06
2	90	86	1:04	1	0.179	A BB	53040.	48.812 UG/L	1.03
3	62	93	1:10	1	0.194	A BB	78648.	49.448 UG/L	1.05
4	94	118	1:28	1	0.246	A BB	95364.	50.112 UG/L	1.06
5	64	132	1:39	1	0.275	A BB	44387.	49.941 UG/L	1.06
6	101	155	1:56	1	0.323	A BB	341071.	56.305 UG/L	1.19
7	56	221	2:46	1	0.460	A BV	76305.	551.511 UG/L	11.67
8	96	218	2:43	1	0.454	A BB	105160.	53.403 UG/L	1.13
9	76	228	2:51	1	0.475	A BB	274791.	47.062 UG/L	1.00
10	142	229	2:52	1	0.477	A BB	281640.	51.789 UG/L	1.10
11	117	229	2:52	1	0.477	A BB	95601.	55.237 UG/L	1.17
12	85	231	2:53	1	0.481	A BB	107605.	56.163 UG/L	1.19
13	43	247	3:05	1	0.515	A VB	15530.	53.374 UG/L	1.13
14	114	616	7:42	14	1.000	A BB	291609.	50.000 UG/L	1.06
15	76	273	3:29	1	0.569	A BB	48981.	52.350 UG/L	1.11
16	84	292	3:39	1	0.608	A BB	106193.	53.125 UG/L	1.12
17	96	323	4:02	1	0.673	A BB	110708.	54.374 UG/L	1.15
18	53	335	4:11	1	0.698	A BB	166366.	590.101 UG/L	12.48
19	63	377	4:43	1	0.785	A BB	176701.	51.923 UG/L	1.10
20	43	402	5:01	14	0.653	A BB	195799.	49.879 UG/L	1.06
21	96	451	5:38	1	0.940	A BB	128742.	59.163 UG/L	1.17
22	72	469	5:52	1	0.977	A BB	9346.	59.895 UG/L	1.27
23	83	500	6:15	1	1.042	A BB	230759.	52.741 UG/L	1.12
24	97	504	6:18	14	0.818	A BB	245389.	54.628 UG/L	1.16
25	117	521	6:31	14	0.846	A VB	208889.	53.243 UG/L	1.13
26	78	550	6:52	14	0.893	A BB	297368.	52.599 UG/L	1.11
27	62	562	7:01	1	1.171	A VV	178845.	55.079 UG/L	1.17
28	70	614	7:40	14	0.997	A BB	51493.	492.914 UG/L	10.43
29	117	995	12:26	29	1.000	A BB	260079.	50.000 UG/L	1.06
30	130	638	7:58	14	1.036	A BB	136795.	55.494 UG/L	1.17
31	63	666	8:19	14	1.081	A BB	103460.	55.516 UG/L	1.17
32	174	682	8:31	1	1.421	A SB	130334.	59.882 UG/L	1.18
33	83	711	8:53	14	1.154	A BB	267699.	57.477 UG/L	1.22
34	63	763	9:32	14	1.239	A BB	72364.	63.187 UG/L	1.34
35	75	769	9:37	14	1.248	A BB	267147.	54.784 UG/L	1.16
36	43	763	9:32	29	0.767	A BB	51653.	59.490 UG/L	1.26
37	92	803	10:02	29	0.807	A BB	212089.	52.594 UG/L	1.11
38	75	855	10:41	14	1.388	A BB	110699.	62.321 UG/L	1.32
39	97	877	10:58	14	1.424	A BB	100864.	60.537 UG/L	1.28
40	69	879	10:59	29	0.883	A BB	117472.	57.331 UG/L	1.21
41	164	878	10:58	29	0.882	A BB	134041.	53.388 UG/L	1.13

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
42	43	921	11:31	29	0.926	A BV	38559.	56.013 UG/L	1.82
43	129	923	11:32	14	1.498	A BB	138509.	55.175 UG/L	1.17
44	107	928	11:36	14	1.506	A BB	153379.	59.953 UG/L	1.27
45	112	998	12:28	29	1.003	A BB	256991.	54.018 UG/L	1.14
46	131	1017	12:43	14	1.651	A BB	145557.	55.399 UG/L	1.17
47	106	1020	12:45	29	1.025	A BV	126038.	54.673 UG/L	1.16
48	106	1039	12:59	29	1.044	A VB	194070.	49.151 UG/L	1.04
49	106	1094	13:40	29	1.099	A BB	176203.	48.412 UG/L	1.02
50	104	1099	13:44	29	1.105	A BB	275283.	51.802 UG/L	1.10
51	173	1121	14:01	14	1.820	A BV	106313.	52.124 UG/L	1.10
52	88	1173	14:40	14	1.904	A BV	54767.	59.800 UG/L	1.27
53	110	1208	15:06	29	1.214	A BV	55360.	57.143 UG/L	1.21
54	83	1213	15:10	29	1.219	A BB	149623.	51.829 UG/L	1.10
55	53	1219	15:14	29	1.225	A BB	38492.	58.178 UG/L	1.23
56	157	1525	19:04	29	1.533	A BB	90124.	96.918 UG/L	2.05
57	65	553	6:55	1	1.152	A BB	171754.	50.871 UG/L	1.08
58	95	1171	14:38	29	1.177	A BB	237191.	49.574 UG/L	1.05
59	98	795	9:56	29	0.799	A BB	320082.	46.992 UG/L	0.99

NO	RET(L)	RATIO	RRT(L)	RATIO	AMN7	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	5:57	1.01	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:03	1.02	10.000	0.02	48.81	50.00	0.727	0.745	0.98
3	1:08	1.02	10.000	0.02	49.45	50.00	1.078	1.090	0.99
4	1:27	1.02	10.000	0.02	50.11	50.00	1.307	1.304	1.00
5	1:37	1.02	10.000	0.03	49.94	50.00	0.609	0.609	1.00
6	1:55	1.01	10.000	0.03	56.31	50.00	4.676	4.152	1.13
7	2:43	1.02	90.000	0.01	551.51	500.01	0.105	0.095	1.10
8	2:40	1.02	5.000	0.09	53.40	50.00	1.442	1.350	1.07
9	2:49	1.01	5.000	0.10	47.06	50.00	3.767	4.002	0.94
10	2:49	1.01	10.000	0.05	51.79	50.00	3.861	3.728	1.04
11	2:50	1.01	10.000	0.05	55.24	50.00	1.311	1.186	1.10
12	2:52	1.01	10.000	0.05	56.16	50.00	1.479	1.313	1.12
13	3:02	1.02	10.000	0.05	53.37	50.00	0.213	0.199	1.07
14	7:40	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	3:22	1.01	15.000	0.04	52.35	50.00	0.666	0.636	1.05
16	3:37	1.01	5.000	0.12	53.13	50.00	1.456	1.370	1.06
17	4:00	1.01	5.000	0.13	54.37	50.00	1.518	1.396	1.09
18	4:08	1.01	120.000	0.01	590.10	500.01	0.228	0.193	1.18
19	4:40	1.01	5.000	0.16	51.92	50.00	2.423	2.333	1.04
20	4:58	1.01	10.000	0.07	49.88	50.00	0.534	0.536	1.00
21	5:36	1.01	5.000	0.19	55.16	50.00	1.765	1.600	1.10
22	5:48	1.01	10.000	0.10	59.90	50.00	0.128	0.107	1.20
23	6:13	1.01	5.000	0.21	52.74	50.00	3.164	2.999	1.05
24	6:16	1.01	5.000	0.16	54.63	50.00	0.841	0.770	1.09
25	6:28	1.01	5.000	0.17	53.24	50.00	0.716	0.673	1.06
26	6:50	1.01	5.000	0.18	52.60	50.00	0.883	0.839	1.05
27	6:59	1.01	5.000	0.23	55.08	50.00	2.452	2.226	1.10
28	7:36	1.01	100.000	0.01	492.91	500.01	0.018	0.018	0.99
29	12:24	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	7:55	1.01	5.000	0.21	55.49	50.00	0.469	0.423	1.11
31	8:17	1.00	5.000	0.22	55.52	50.00	0.355	0.320	1.11
32	8:28	1.01	5.000	0.28	55.88	50.00	1.787	1.599	1.12
33	8:51	1.00	5.000	0.23	57.48	50.00	0.918	0.799	1.15
34	9:30	1.00	10.000	0.12	63.19	50.00	0.248	0.196	1.26
35	9:34	1.00	5.000	0.25	54.78	50.00	0.916	0.836	1.10
36	9:30	1.00	15.000	0.05	59.45	50.00	0.199	0.167	1.19

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	10:00	1.00	5.000	0.16	52.59	50.00	0.815	0.775	1.05
38	10:35	1.01	5.000	0.28	62.32	50.00	0.380	0.305	1.25
39	10:52	1.01	5.000	0.28	60.54	50.00	0.346	0.286	1.21
40	10:54	1.01	10.000	0.09	57.23	50.00	0.452	0.395	1.14
41	10:50	1.01	5.000	0.18	53.39	50.00	0.515	0.483	1.07
42	11:28	1.00	15.000	0.06	86.01	50.00	0.148	0.086	1.72
43	11:26	1.01	5.000	0.30	55.17	50.00	0.475	0.430	1.10
44	11:30	1.01	5.000	0.30	59.95	50.00	0.526	0.439	1.20
45	12:27	1.00	5.000	0.20	54.02	50.00	0.988	0.915	1.08
46	12:41	1.00	5.000	0.33	55.40	50.00	0.499	0.451	1.11
47	12:44	1.00	5.000	0.21	54.67	50.00	0.485	0.443	1.09
48	12:58	1.00	5.000	0.21	49.15	50.00	0.746	0.759	0.98
49	13:39	1.00	5.000	0.22	48.41	50.00	0.677	0.700	0.97
50	13:43	1.00	5.000	0.22	51.80	50.00	1.058	1.022	1.04
51	13:59	1.00	5.000	0.36	52.12	50.00	0.365	0.350	1.04
52	14:39	1.00	15.000	0.13	59.80	50.00	0.188	0.157	1.20
53	15:04	1.00	15.000	0.08	57.14	50.00	0.213	0.186	1.14
54	15:07	1.00	5.000	0.24	51.83	50.00	0.575	0.555	1.04
55	15:13	1.00	15.000	0.08	58.18	50.00	0.148	0.127	1.16
56	19:02	1.00	10.000	0.15	96.92	100.00	0.173	0.179	0.97
57	6:52	1.01	5.000	0.23	50.87	50.00	2.355	2.314	1.02
58	14:37	1.00	5.000	0.24	49.57	50.00	0.912	0.920	0.99
59	9:53	1.01	5.000	0.16	46.99	50.00	1.231	1.309	0.94

COMPUCHEM LABORATORIES, INC.
GC/MS ANALYSIS LOG

FILE NO. _____
RUN LOG

INITIAL TIME OF TUNE 1:21
TIME TUNE EXPIRES 13:21
PREVENTIVE MAINTENANCE _____

SHIFT(S) (A) _____ (B) _____ (C)
DATE 11-15-89
ANALYSIS TYPE WTL

FILE NO.	FILE NAME	DATE	TIME	EPA ID	CASE NO.	STD. ID #	AMOUNT INJECTED	CHEMIST	COMMENTS (Lot #, Disposition, Etc.)
1	BE891115C12	11/15/89	1:21	BF-B		2008	2ul	1539	
2	CS891115C12	11/15/89	1:36	VST005D		1902	5ul	1539	
3	VB891115C12	11/15/89	2:26	VBWELB			5ul	1539	
4	CN098839C12	11/15/89	3:20	BB12W/3W			5ul	1539	
5	CN099003C12	11/15/89	3:47	B1/P1/341			5ul	1539	
6	CN099208C12	11/15/89	4:50	B12W/3W3			5ul	1539	
7	CN099413C12	11/15/89	5:24	B12W/3W2			5ul	1539	
8	CN099385C12	11/15/89	6:00	B12W/3W4			5ul	1539	
9	CN099133C12	11/15/89	6:34	B22W/3W2			5ul	1539	
10	CN099545C12	11/15/89	7:07	B12W/3W5			5ul	1539	
11	CN099546C12	11/15/89	7:48	B22W/3W5			5ul	1539	
12	CN099977A12	11/15/89	8:31	B12W/3W4			5ul	1539	
13	CN099916A12	11/15/89	9:14	ZHEBLC	15391		5ul	1539	
14	CN091299A12	11/15/89	9:55	WLT-COMP	15391		5ul	1539	
15	CN091300A12	11/15/89	10:55	WLT-COMMS	"		5ul	1539	
16	CN091301A12	11/15/89	11:07	WLT-COMMS	"		5ul	1539	
17	CN091939A12	11/15/89	11:42	W8001-06	"		5ul	1539	
18	CN091923A12	11/15/89	11:42	IF 13900106	"		5ul	1539	IF Locked up
19									
20									
21									
22									
23									
24									

VERIFIED [Signature] 11/15/89
SUPERVISOR APPROVAL [Signature]

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMFU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Instrument ID: 12 Calibration date: 11/15/89 Time: 1340
 Lab File ID: CSR91115A12 Init. Calib. Date(s): 10/19/89 10/20/89
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP
 Min RRF50 for SPCC(%) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	0.763	0.456	40.2
Bromomethane	0.988	1.114	-12.8
Vinyl Chloride	0.929	0.783	15.7
Chloroethane	0.474	0.524	-10.6
Methylene Chloride	1.257	1.197	4.8
Acetone	0.259	0.141	45.6
Carbon Disulfide	3.810	2.815	26.5
1,1-Dichloroethane	1.309	1.197	8.6
1,1-Dichloroethane	2.793	1.925	31.1
1,2-Dichloroethane (total)	2.954	2.750	6.9
Chloroform	3.591	2.770	22.9
1,2-Dichloroethane	2.990	2.078	30.5
2-Butanone	0.082	0.092	-12.2
1,1,1-Trichloroethane	0.720	0.716	0.6
Carbon Tetrachloride	0.727	0.627	13.8
Vinyl Acetate	0.618	0.347	43.9
Bromodichloromethane	0.979	0.826	15.6
1,2-Dichloropropane	0.370	0.317	14.3
cis-1,3-Dichloropropene	0.689	0.861	-25.0
Trichloroethene	0.441	0.428	2.9
Dibromochloromethane	0.472	0.442	6.4
1,1,2-Trichloroethane	0.235	0.327	-39.2
Benzene	0.678	0.761	-12.2
Trans-1,3-Dichloropropene	0.327	0.324	0.9
Bromoform	0.354	0.328	7.3
4-Methyl-2-Pentanone	0.271	0.177	34.7
2-Hexanone	0.152	0.097	36.2
Tetrachloroethane	0.519	0.460	11.4
1,1,2,2-Tetrachloroethane	0.597	0.474	20.6
Toluene	0.784	0.707	9.8
Chlorobenzene	0.946	0.892	5.7
Ethylbenzene	0.438	0.421	3.9
Styrene	1.079	0.872	19.2
Total Xylenes	1.419	1.170	17.6
Toluene-d8	1.192	1.192	0.0
BFB	0.937	0.882	5.9
1,2-Dichloroethane-d4	2.705	2.215	18.1

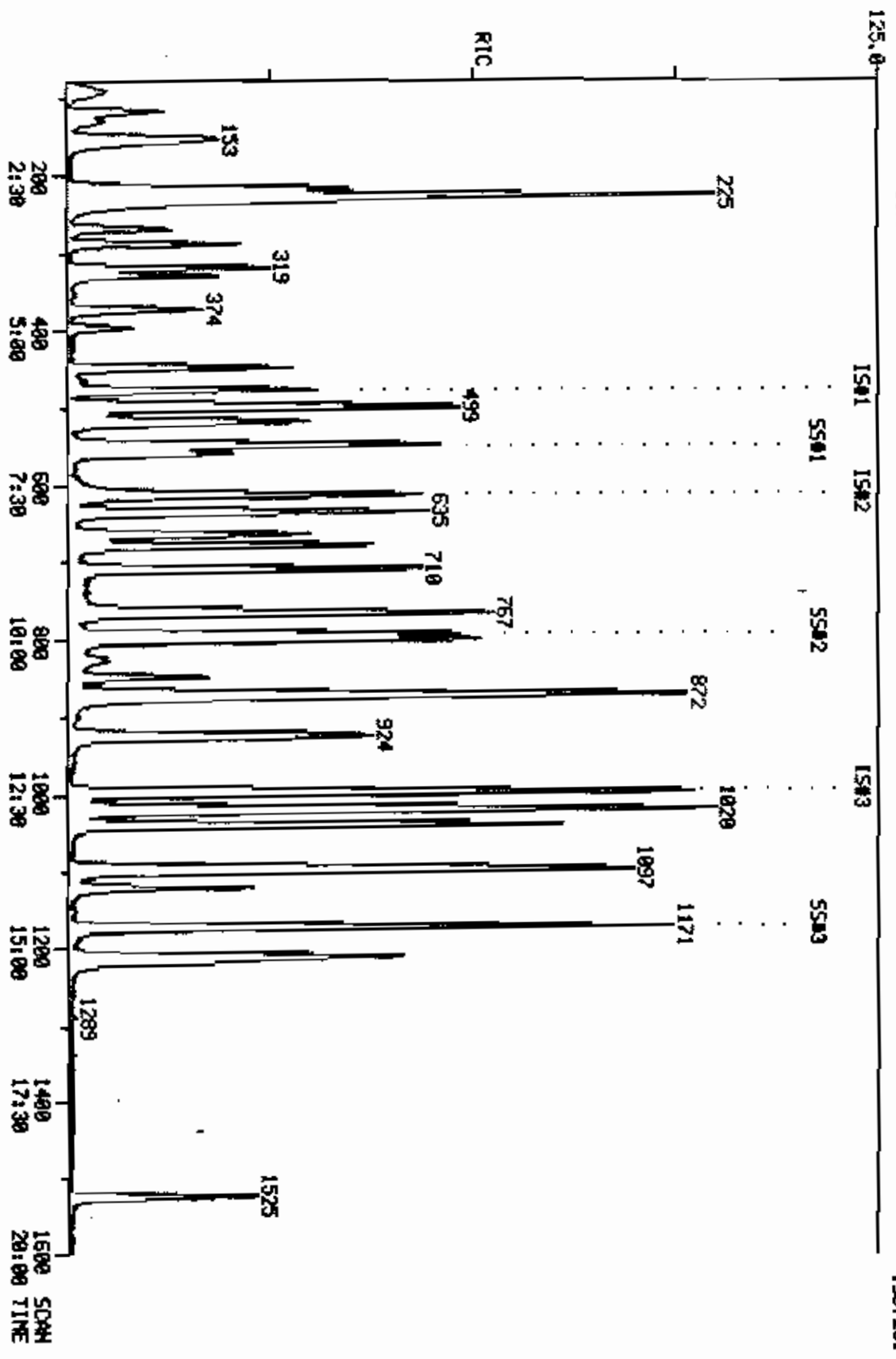
FORM VII VOA

1/87 Rev.

RIC
11/15/89 13:40:00
SAMPLE: SWL EPA INDUSTRIAL (ST0#1902) CW #12
COND.:

COMPUCHEN LABS
COMPUCHEN DATA: CS891115A12 SCANS 78 TO 1600

190720.



QUANTITATION REPORT FILE: CS891115A12
DATA: CS891115A12.T1
11/15/89 13:40:00
SAMPLE: 5ML EPA ID#VSTD050 (STD#1902) ON #12
CONDS.:
SUBMITTED BY: 12 ANALYST: 1536

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (15) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-56-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (15) <540-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CRDONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (15) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE ,124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO	NAME
47	219 ETHYLBENZENE <100-41-4> WE#47
48	330 M,P-XYLENE <133-02-7> WE#48
49	239 O-XYLENE <133-02-7> WE#49
50	251 BTYRENE <100-42-5> WE#50
51	205 BROMOFORM <75-29-2> WE#51
52	274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
53	275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
54	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
55	290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
56	262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
57	0258 D4-1,2-DICHLOROETHANE WE#57
58	0247 BROMOFLUORDBENZENE <460-00-4> WE#58
59	0233 DB-TOLUENE WE#59

Handwritten:
 11-17-89

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGMT)	AMOUNT	XTDT
1	128	477	5:58	1	1.000	A BB	39898.	50.000 UG/L	1.15
2	50	87	1:05	1	0.182	A BB	27307.	50.000 UG/L	1.15
3	62	94	1:10	1	0.197	A BB	46872.	50.000 UG/L	1.15
4	94	117	1:28	1	0.243	A BV	66707.	50.000 UG/L	1.15
5	64	132	1:39	1	0.277	A BV	31380.	50.000 UG/L	1.15
6	101	153	1:55	1	0.321	A BB	182281.	50.000 UG/L	1.15
7	56	219	2:41	1	D.481	A BV	50392.	500.009 UG/L	11.49
8	96	215	2:41	1	0.451	A BV	71720.	50.000 UG/L	1.15
9	76	225	2:49	1	0.472	A BB	168606.	50.000 UG/L	1.15
10	142	226	2:49	1	0.474	A BB	187184.	50.000 UG/L	1.15
11	117	226	2:49	1	0.474	A BB	57667.	50.000 UG/L	1.15
12	85	227	2:50	1	0.476	A BV	61109.	50.000 UG/L	1.15
13	43	241	3:01	1	0.505	A VV	8451.	50.000 UG/L	1.15
14	114	614	7:40	14	1.000	A BB	241762.	50.000 UG/L	1.15
15	76	270	3:22	1	0.566	A BB	30879.	50.000 UG/L	1.15
16	84	288	3:36	1	0.604	A BB	71687.	50.000 UG/L	1.15
17	96	319	3:59	1	0.669	A BB	75128.	50.000 UG/L	1.15
18	53	330	4:07	1	0.692	A BB	100193.	500.008 UG/L	11.49
19	63	374	4:40	1	0.784	A BB	115291.	50.000 UG/L	1.15
20	43	398	4:58	14	0.648	A BB	83989.	50.000 UG/L	1.15
21	96	449	5:37	1	0.941	A BB	89608.	50.000 UG/L	1.15
22	72	465	5:49	1	0.975	A BB	5484.	50.000 UG/L	1.15
23	83	497	6:13	1	1.042	A BB	165921.	50.000 UG/L	1.15
24	97	502	6:16	14	0.818	A BB	173030.	50.000 UG/L	1.15
25	117	519	6:29	14	0.845	A VB	151493.	50.000 UG/L	1.15
26	78	548	6:51	14	0.893	A BB	184083.	50.000 UG/L	1.15
27	62	559	6:59	1	1.172	A VB	124441.	50.000 UG/L	1.15
28	70	611	7:38	14	0.995	A BB	34623.	500.008 UG/L	11.49
29	117	995	12:26	29	1.000	A BB	224712.	50.000 UG/L	1.15
30	130	635	7:56	14	1.034	A BB	103974.	50.000 UG/L	1.15
31	63	664	8:18	14	1.081	A BB	76539.	50.000 UG/L	1.15
32	174	679	8:29	1	1.423	A BB	93907.	50.000 UG/L	1.15
33	83	710	8:52	14	1.156	A BE	199792.	50.000 UG/L	1.15
34	63	761	9:31	14	1.239	A BB	51737.	50.000 UG/L	1.15
35	75	767	9:35	14	1.249	A BB	208216.	50.000 UG/L	1.15
36	43	761	9:31	29	0.765	A BB	39697.	50.000 UG/L	1.15
37	92	801	10:01	29	0.805	A BB	198873.	50.000 UG/L	1.15
38	75	849	10:37	14	1.383	A BB	78446.	50.000 UG/L	1.15
39	97	872	10:54	14	1.420	A BB	78968.	50.000 UG/L	1.15
40	69	877	10:58	29	0.881	A BB	80923.	50.000 UG/L	1.15
41	164	871	10:53	29	0.878	A BB	103312.	50.000 UG/L	1.15

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
42	43	921	11:31	29	0.926	A VB	21840.	50.000 UG/L	1.15
43	129	923	11:32	14	1.503	A BB	106853.	50.000 UG/L	1.15
44	107	928	11:36	14	1.511	A BV	104634.	50.000 UG/L	1.15
45	112	979	12:29	29	1.004	A BB	200424.	50.000 UG/L	1.15
46	131	1017	12:43	14	1.656	A BB	102325.	50.000 UG/L	1.15
47	106	1021	12:46	29	1.026	A BV	94505.	50.000 UG/L	1.15
48	106	1039	12:59	29	1.044	A VB	138198.	50.000 UG/L	1.15
49	106	1094	13:40	29	1.079	A BB	124770.	50.000 UG/L	1.15
50	104	1099	13:44	29	1.105	A BB	195976.	50.000 UG/L	1.15
51	173	1120	14:00	14	1.824	A BB	79253.	50.000 UG/L	1.15
52	88	1174	14:40	14	1.912	A BB	36219.	50.000 UG/L	1.15
53	110	1209	15:07	29	1.213	A BB	37056.	50.000 UG/L	1.15
54	83	1211	15:08	29	1.217	A BB	106535.	50.000 UG/L	1.15
55	53	1220	15:15	29	1.226	A BB	22212.	50.000 UG/L	1.15
56	157	1526	19:04	29	1.534	A BB	54645.	100.000 UG/L	2.30
57	65	550	6:52	1	1.153	A BB	132672.	50.000 UG/L	1.15
58	95	1171	14:38	29	1.177	A BB	198244.	50.000 UG/L	1.15
59	98	793	9:55	29	0.797	A BB	267943.	50.000 UG/L	1.15

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	5:58	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:05	1.00	10.000	0.02	50.00	50.00	0.456	0.456	1.00
3	1:10	1.00	10.000	0.02	50.00	50.00	0.783	0.783	1.00
4	1:28	1.00	10.000	0.02	50.00	50.00	1.114	1.114	1.00
5	1:39	1.00	10.000	0.03	50.00	50.00	0.524	0.524	1.00
6	1:55	1.00	10.000	0.03	50.00	50.00	3.043	3.043	1.00
7	2:41	1.00	90.000	0.01	500.01	500.01	0.084	0.084	1.00
8	2:41	1.00	5.000	0.09	50.00	50.00	1.197	1.197	1.00
9	2:49	1.00	5.000	0.09	50.00	50.00	2.815	2.815	1.00
10	2:49	1.00	10.000	0.05	50.00	50.00	3.125	3.125	1.00
11	2:49	1.00	10.000	0.05	50.00	50.00	0.963	0.963	1.00
12	2:50	1.00	10.000	0.05	50.00	50.00	1.020	1.020	1.00
13	3:01	1.00	10.000	0.05	50.00	50.00	0.141	0.141	1.00
14	7:40	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	3:22	1.00	15.000	0.04	50.00	50.00	0.516	0.516	1.00
16	3:36	1.00	5.000	0.12	50.00	50.00	1.197	1.197	1.00
17	3:59	1.00	5.000	0.13	50.00	50.00	1.254	1.254	1.00
18	4:07	1.00	20.000	0.01	500.01	500.01	0.167	0.167	1.00
19	4:40	1.00	5.000	0.16	50.00	50.00	1.925	1.925	1.00
20	4:58	1.00	10.000	0.06	50.00	50.00	0.347	0.347	1.00
21	5:37	1.00	5.000	0.19	50.00	50.00	1.496	1.496	1.00
22	5:49	1.00	10.000	0.10	50.00	50.00	0.092	0.092	1.00
23	6:13	1.00	5.000	0.21	50.00	50.00	2.770	2.770	1.00
24	6:16	1.00	5.000	0.16	50.00	50.00	0.716	0.716	1.00
25	6:29	1.00	5.000	0.17	50.00	50.00	0.627	0.627	1.00
26	6:51	1.00	5.000	0.18	50.00	50.00	0.761	0.761	1.00
27	6:59	1.00	5.000	0.23	50.00	50.00	2.078	2.078	1.00
28	7:38	1.00	100.000	0.01	500.01	500.01	0.014	0.014	1.00
29	12:26	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	7:56	1.00	5.000	0.21	50.00	50.00	0.428	0.428	1.00
31	8:18	1.00	5.000	0.22	50.00	50.00	0.317	0.317	1.00
32	8:29	1.00	5.000	0.28	50.00	50.00	1.568	1.568	1.00
33	8:52	1.00	5.000	0.23	50.00	50.00	0.826	0.826	1.00
34	9:31	1.00	10.000	0.12	50.00	50.00	0.214	0.214	1.00
35	9:35	1.00	5.000	0.25	50.00	50.00	0.861	0.861	1.00
36	9:31	1.00	15.000	0.05	50.00	50.00	0.177	0.177	1.00

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	10:01	1.00	5.000	0.16	50.00	50.00	0.707	0.707	1.00
38	10:37	1.00	5.000	0.28	50.00	50.00	0.324	0.324	1.00
39	10:54	1.00	5.000	0.28	50.00	50.00	0.327	0.327	1.00
40	10:58	1.00	10.000	0.09	50.00	50.00	0.360	0.360	1.00
41	10:53	1.00	5.000	0.18	50.00	50.00	0.460	0.460	1.00
42	11:31	1.00	15.000	0.06	50.00	50.00	0.097	0.097	1.00
43	11:32	1.00	5.000	0.30	50.00	50.00	0.442	0.442	1.00
44	11:36	1.00	5.000	0.30	50.00	50.00	0.433	0.433	1.00
45	12:29	1.00	5.000	0.20	50.00	50.00	0.892	0.892	1.00
46	12:43	1.00	5.000	0.33	50.00	50.00	0.423	0.423	1.00
47	12:46	1.00	5.000	0.21	50.00	50.00	0.421	0.421	1.00
48	12:59	1.00	5.000	0.21	50.00	50.00	0.615	0.615	1.00
49	13:40	1.00	5.000	0.22	50.00	50.00	0.555	0.555	1.00
50	13:44	1.00	5.000	0.22	50.00	50.00	0.872	0.872	1.00
51	14:00	1.00	5.000	0.36	50.00	50.00	0.328	0.328	1.00
52	14:40	1.00	15.000	0.13	50.00	50.00	0.150	0.150	1.00
53	15:07	1.00	15.000	0.08	50.00	50.00	0.165	0.165	1.00
54	15:08	1.00	5.000	0.24	50.00	50.00	0.474	0.474	1.00
55	15:15	1.00	15.000	0.08	50.00	50.00	0.099	0.099	1.00
56	17:04	1.00	10.000	0.19	100.00	100.00	0.122	0.122	1.00
57	6:52	1.00	5.000	0.23	50.00	50.00	2.215	2.215	1.00
58	14:38	1.00	5.000	0.24	50.00	50.00	0.882	0.882	1.00
59	9:55	1.00	5.000	0.16	50.00	50.00	1.192	1.192	1.00

COMPU-CHEM LABORATORIES, INC.
GC/MS ANALYSIS LOG

INITIAL TIME OF TUNE 13:26
TIME TUNE EXPIRES 1:26

SHIFT(S) (A) (B)
DATE 11/5/85
ANALYSIS TYPE UCL

RUN LOG

PREVENTIVE MAINTENANCE

FILE NAME	DATE	TIME	EPA ID	CASE NO.	STD ID #	AMOUNT NEEDED	CHEMIST	COMMENTS (Lot # & Disposition, Etc.)
BE891115A12	11/5/85	13:26	BE89		305V1	2.0	1536	
CS891115A12	11/5/85	15:40	V/ST06SD		1902	5.0	1536	
CS891115A12	11/5/85	17:49	VOLKES			5.0	1536	CT
CC891115A12	11/5/85	15:34	VOLKES			5.0	1537	
CN001909B12	11/5/85	16:21	738001-12	18410		5ml	1457	
CN001910B12	11/5/85	16:56	738001-02	18410		5ml	1457	
CN001917B12	11/5/85	17:29	738001-01	18410		5ml	1457	
CN0019K1A12	11/5/85	18:09	738001-03	18410		5ml	1457	
CN001922B12	11/5/85	18:45	738001-08	18410		5ml	1457	
CN001937B12	11/5/85	19:19	738001-05	18410		5ml	1457	
CN001938B12	11/5/85	19:57	738001-10	18410		5ml	1457	
CN001923B12	11/5/85	20:31	738001-10 MS	18410		5ml	1457	
CN001924B12	11/5/85	21:10	738001-HAMSA	18410		5ml	1457	
CN002186B12	11/5/85	21:42	738001-19	18410		5ml	1457	
CN002190B12	11/5/85	22:19	738001-20	18410		5ml	1457	
CN002195B12	11/5/85	22:53	LAPLANE	18410		5ml	1457	
CN002175B12	11/5/85	23:29	FAHSE #1/KA	FAHSE		5ml	1457	
CN002177B12	11/5/85	00:03	SOIL-F0-1	K477		5ml	1457	
CN002185C12	11/5/85	0:34	POT-1	18427		5ml	1537	
CN002169C12	11/5/85	1:03	POT-1 MS	18427		5ml	1537	

VERIFIED SD WAGNER 11-17-85
SUPERVISOR APPROVAL: [Signature] 11-16-85

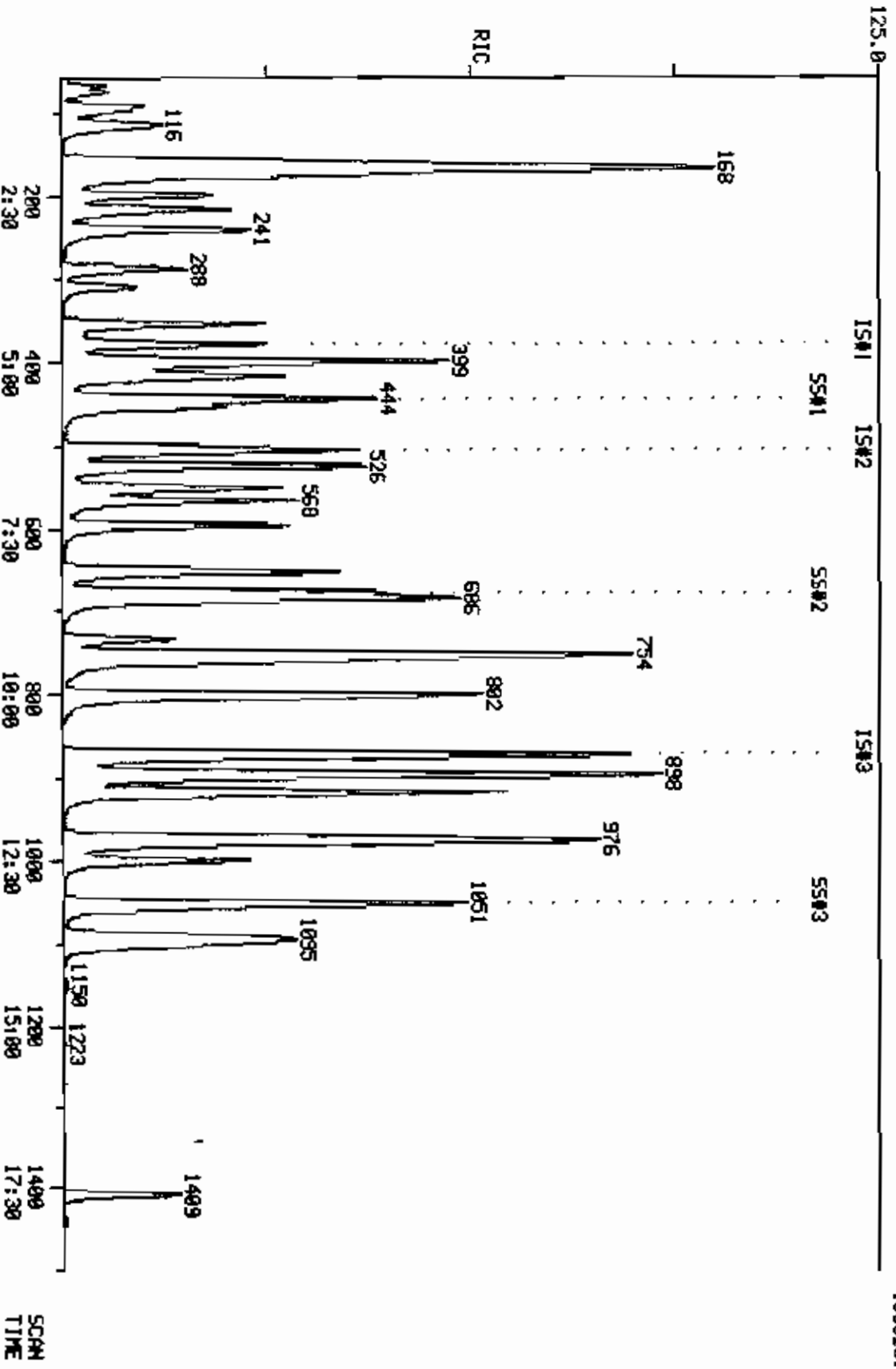
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Instrument ID: 18 Calibration date: 11/16/89 Time: 0040
 Lab File ID: C5891116C18 Init. Calib. Date(s): 10/31/89 10/31/89
 Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP
 Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	0.899	0.690	23.1
Bromomethane	1.256	1.011	19.5
Vinyl Chloride	0.682	0.593	13.1
Chloroethane	0.745	0.577	22.6
Methylene Chloride	1.311	1.330	-1.4
Acetone	0.355	0.478	-34.7
Carbon Disulfide	3.700	2.964	19.9
1,1-Dichloroethane	1.350	1.281	5.0
1,1-Dichloroethane	1.947	2.057	-5.7
1,2-Dichloroethene (total)	2.904	2.674	7.9
Chloroform	2.584	2.570	0.5
1,2-Dichloroethane	1.908	1.800	5.7
2-Butanone	0.095	0.098	-3.2
1,1,1-Trichloroethane	0.689	0.569	17.4
Carbon Tetrachloride	0.682	0.599	12.2
Vinyl Acetate	0.661	0.514	22.2
Bromodichloromethane	0.647	0.566	12.5
1,2-Dichloropropane	0.313	0.306	2.2
cis-1,3-Dichloropropene	0.597	0.494	17.3
Trichloroethene	0.464	0.460	0.9
Dibromochloromethane	0.618	0.584	5.5
1,1,2-Trichloroethane	0.319	0.325	-1.9
Benzene	0.808	0.768	5.0
Trans-1,3-Dichloropropene	0.303	0.211	23.1
Bromoform	0.510	0.429	15.9
4-Methyl-2-Pentanone	0.364	0.345	5.2
2-Hexanone	0.227	0.221	1.8
Tetrachloroethene	0.547	0.485	11.3
1,1,2,2-Tetrachloroethane	0.521	0.483	7.3
Toluene	0.703	0.637	9.4
Chlorobenzene	1.002	1.001	0.1
Ethylbenzene	0.461	0.432	6.3
Styrene	1.098	1.100	-0.2
Total Xylenes	1.403	1.397	0.4
Toluene-d8	1.090	1.002	8.1
BFB	0.744	0.650	12.6
1,2-Dichloroethane-d4	1.855	1.654	10.8

RIC
 11/16/89 01:40:00
 SAMPLE: SIML EPA STANDARD UST0050 (1902) QM#10
 COND.:

COMPUCHEM LABS
 COMPUCHEM DATA: CS891116C10 SCANS 59 TO 1500



QUANTITATION REPORT FILE: CS891116C18
DATA: CS891116C18.T1
11/16/89 D:40:00
SAMPLE: 5ML EPA STANDARD VSTD050 (1902) ON#18
CONDS.:
SUBMITTED BY: JR ANALYST: 1422

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	289 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-FRDPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <591-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 300 M,P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 CIS-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 D4-1,2-DICHLOROETHANE WE#57
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58
 59 #233 D8-TOLUENE WE#59

CG 11-16-89

Observed
11/16/89

NO	M/E	SCAN	TIME	REF	RTT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	378	4:43	1	1.000	A BB	43847.	50.000 UG/L	1.39
2	50	68	0:51	1	0.180	A BB	30235.	41.894 UG/L	1.17
3	62	77	0:58	1	0.204	A BB	26020.	42.866 UG/L	1.19
4	94	93	1:10	1	0.246	A BB	44346.	45.075 UG/L	1.25
5	64	99	1:14	1	D.262	A BB	25283.	39.651 UG/L	1.10
6	101	116	1:27	1	0.307	A BB	78875.	64.015 UG/L	1.78
7	56	160	2:00	1	0.423	A BB	760.	11.262 UG/L	0.31
8	96	159	1:59	1	0.421	A BB	56252.	53.313 UG/L	1.48
9	76	169	2:07	1	0.447	A BB	129974.	51.221 UG/L	1.43
10	142	169	2:07	1	0.447	A BB	149870.	54.633 UG/L	1.52
11	117	167	2:05	1	0.442	A BB	47797.	57.036 UG/L	1.59
12	85	168	2:06	1	0.444	A BB	51044.	55.896 UG/L	1.56
13	43	178	2:13	1	0.471	A BB	20937.	64.648 UG/L	1.80
14	114	306	6:19	14	1.000	A BB	172850.	50.000 UG/L	1.39
15	76	199	2:29	1	0.526	A BB	20787.	57.632 UG/L	1.60
16	84	216	2:42	1	0.571	A BB	58323.	55.288 UG/L	1.54
17	96	241	3:01	1	0.638	A BB	54621.	53.465 UG/L	1.49
18	53	251	3:08	1	0.664	A BB	3370.	17.098 UG/L	0.48
19	63	288	3:36	1	0.762	A BB	90177.	55.105 UG/L	1.53
20	43	310	3:52	14	0.613	A BB	88828.	51.355 UG/L	1.43
21	96	354	4:25	1	0.937	A BB	62615.	53.668 UG/L	1.49
22	72	369	4:37	1	0.976	A BB	4290.	61.338 UG/L	1.71
23	83	398	4:58	1	1.053	A BB	112675.	55.044 UG/L	1.53
24	97	400	5:00	14	0.791	A BB	98333.	49.873 UG/L	1.39
25	117	415	5:11	14	0.820	A VB	103567.	54.494 UG/L	1.52
26	78	442	5:31	14	0.874	A BB	132733.	51.209 UG/L	1.42
27	62	454	5:40	1	1.201	A BB	78908.	55.928 UG/L	1.56
28	70	502	6:16	14	0.992	A BB	27077.	547.851 UG/L	15.24
29	117	872	10:54	29	1.000	A BB	156818.	50.000 UG/L	1.39
30	130	526	6:34	14	1.040	A BB	79544.	54.712 UG/L	1.52
31	63	553	6:55	14	1.093	A BB	52941.	52.494 UG/L	1.46
32	174	567	7:05	1	1.500	A BB	69286.	56.848 UG/L	1.58
33	83	598	7:28	14	1.182	A BB	97909.	50.538 UG/L	1.41
34	63	649	8:07	14	1.283	A BB	18165.	54.446 UG/L	1.51
35	78	654	8:10	14	1.292	A BB	85424.	50.961 UG/L	1.42
36	43	688	8:36	29	0.789	A BB	54169.	56.352 UG/L	1.57
37	92	686	8:34	29	0.787	A BB	97927.	50.801 UG/L	1.41
38	75	735	9:11	14	1.453	A BB	40232.	52.514 UG/L	1.46
39	97	756	9:27	14	1.494	A BB	56190.	54.310 UG/L	1.51
40	69	762	9:31	29	0.874	A BB	58292.	54.352 UG/L	1.51
41	164	753	9:25	29	0.864	A BB	76123.	52.779 UG/L	1.47

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGHT)	AMOUNT	XTDT
42	43	804	10:03	29	0.922	A BB	35011.	54.282 UG/L	1.51
43	129	801	10:01	14	1.583	A BB	100981.	52.379 UG/L	1.46
44	107	804	10:03	14	1.589	A BB	87623.	55.412 UG/L	1.54
45	112	876	10:57	29	1.005	A BB	186925.	53.228 UG/L	1.48
46	131	896	11:12	14	1.771	A BB	87020.	53.352 UG/L	1.48
47	106	899	11:14	29	1.031	A BV	67731.	53.037 UG/L	1.48
48	106	918	11:28	29	1.033	A VB	116648.	55.893 UG/L	1.56
49	106	972	12:09	29	1.115	A BB	102474.	52.990 UG/L	1.47
50	104	979	12:14	29	1.123	A BB	172537.	52.977 UG/L	1.47
51	173	999	12:29	14	1.974	A BB	74156.	53.491 UG/L	1.49
52	88	1057	13:13	14	2.089	A BB	21208.	53.212 UG/L	1.48
53	110	1089	13:37	29	1.249	A BV	28509.	53.781 UG/L	1.50
54	83	1096	13:42	29	1.257	A BB	79760.	51.087 UG/L	1.42
55	53	1104	13:48	29	1.266	A BB	20025.	55.461 UG/L	1.54
56	157	1409	17:37	29	1.616	A BB	28484.	111.708 UG/L	3.11
57	65	444	5:33	1	1.175	A BB	72521.	46.992 UG/L	1.31
58	95	1050	13:07	29	1.204	A BB	102003.	45.651 UG/L	1.27
59	98	679	8:29	29	0.779	A BB	157074.	47.478 UG/L	1.32

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:37	1.02	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:50	1.01	10.000	0.02	41.89	50.00	0.690	0.823	0.84
3	0:55	1.04	10.000	0.02	42.87	50.00	0.593	0.692	0.86
4	1:07	1.03	10.000	0.02	45.07	50.00	1.011	1.122	0.90
5	1:12	1.03	10.000	0.03	39.65	50.00	0.577	0.727	0.79
6	1:24	1.04	10.000	0.03	64.02	50.00	1.799	1.405	1.28
7	1:55	1.05	90.000	0.00	11.26	500.01	0.002	0.097	0.02
8	1:55	1.04	5.000	0.08	53.31	50.00	1.283	1.203	1.07
9	2:03	1.03	5.000	0.09	51.22	50.00	2.964	2.894	1.02
10	2:02	1.04	10.000	0.04	54.63	50.00	3.418	3.128	1.09
11	1:59	1.05	10.000	0.04	57.04	50.00	1.090	0.956	1.14
12	2:01	1.04	10.000	0.04	55.90	50.00	1.164	1.041	1.12
13	2:08	1.04	10.000	0.05	64.65	50.00	0.478	0.369	1.29
14	6:13	1.02	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	2:24	1.04	15.000	0.04	57.63	50.00	0.474	0.411	1.15
16	2:37	1.03	5.000	0.11	55.29	50.00	1.330	1.203	1.11
17	2:54	1.04	5.000	0.13	53.47	50.00	1.246	1.165	1.07
18	3:01	1.04	120.000	0.01	17.10	500.01	0.008	0.225	0.03
19	3:28	1.04	5.000	0.15	55.11	50.00	2.057	1.866	1.10
20	3:45	1.03	10.000	0.06	51.36	50.00	0.514	0.500	1.03
21	4:18	1.03	5.000	0.19	53.67	50.00	1.428	1.330	1.07
22	4:30	1.03	10.000	0.10	61.34	50.00	0.098	0.080	1.23
23	4:51	1.03	5.000	0.21	55.04	50.00	2.570	2.334	1.10
24	4:53	1.02	5.000	0.16	49.87	50.00	0.569	0.570	1.00
25	5:04	1.02	5.000	0.16	54.49	50.00	0.599	0.550	1.09
26	5:25	1.02	5.000	0.17	51.21	50.00	0.768	0.750	1.02
27	5:34	1.02	5.000	0.24	55.93	50.00	1.800	1.609	1.12
28	6:09	1.02	100.000	0.01	547.85	500.01	0.016	0.014	1.10
29	10:51	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	6:28	1.02	5.000	0.21	54.71	50.00	0.460	0.421	1.09
31	6:48	1.02	5.000	0.22	52.49	50.00	0.306	0.292	1.05
32	6:59	1.01	5.000	0.30	56.85	50.00	1.380	1.390	1.14
33	7:22	1.01	5.000	0.24	50.54	50.00	0.566	0.560	1.01
34	8:03	1.01	10.000	0.13	54.45	50.00	0.105	0.097	1.09
35	8:05	1.01	5.000	0.26	50.96	50.00	0.494	0.485	1.02
36	8:31	1.01	15.000	0.05	56.35	50.00	0.345	0.306	1.13

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	8:30	1.01	5.000	0.16	50.80	50.00	0.637	0.627	1.02
38	9:07	1.01	5.000	0.29	52.51	50.00	0.233	0.222	1.05
39	9:22	1.01	5.000	0.30	54.31	50.00	0.325	0.299	1.09
40	9:27	1.01	10.000	0.09	54.35	50.00	0.372	0.342	1.09
41	9:20	1.01	5.000	0.17	52.78	50.00	0.485	0.460	1.06
42	9:58	1.01	15.000	0.06	54.28	50.00	0.223	0.206	1.09
43	9:57	1.01	5.000	0.32	52.38	50.00	0.584	0.558	1.05
44	9:59	1.01	5.000	0.32	55.41	50.00	0.507	0.457	1.11
45	10:53	1.01	5.000	0.20	53.23	50.00	1.001	0.940	1.06
46	11:09	1.00	5.000	0.35	53.35	50.00	0.503	0.472	1.07
47	11:11	1.00	5.000	0.21	53.04	50.00	0.432	0.407	1.06
48	11:25	1.00	5.000	0.21	55.89	50.00	0.744	0.665	1.12
49	12:07	1.00	5.000	0.22	52.99	50.00	0.653	0.617	1.06
50	12:10	1.01	5.000	0.22	52.98	50.00	1.100	1.038	1.06
51	12:27	1.00	5.000	0.39	53.49	50.00	0.429	0.401	1.07
52	13:10	1.00	15.000	0.14	53.21	50.00	0.123	0.115	1.06
53	13:34	1.00	15.000	0.08	53.78	50.00	0.182	0.169	1.08
54	13:40	1.00	5.000	0.25	51.09	50.00	0.483	0.473	1.02
55	13:45	1.00	15.000	0.08	55.46	50.00	0.128	0.115	1.11
56	17:35	1.00	10.000	0.16	111.71	100.00	0.091	0.081	1.12
57	5:27	1.02	5.000	0.23	46.99	50.00	1.654	1.760	0.94
58	13:05	1.00	5.000	0.24	49.65	50.00	0.650	0.712	0.91
59	8:24	1.01	5.000	0.16	47.48	50.00	1.002	1.055	0.95

COMPUCHIEM LABORATORIES, INC.
GC/MS ANALYSIS LOG

INITIAL TIME OF TIME 11:24 00:50 START(S) (A) _____ (B) _____ (C) _____
 TIME TIME EXPIRES 23:24-12:30 DATE 11-16-84

RUN LOG

PREVENTIVE MAINTENANCE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FILE NAME	DATE	TIME	EPA ID	CASE NO.	STD. O.F.	ANALYST	CHEMIST	COMMENTS (LID #, Disposition, Etc.)															
NR99116C18	11/16/84	0:30	DEFB			SMJ	1822	70591															
CS99116C18	11/16/84	0:40	WTRBOG		1802	SMJ	1822																
CR99116C18	11/16/84	1:24	WTR BOG			SMJ	1822																
CC99116C18	11/16/84	2:06	WTRIC DG			SMJ	1822																
CR001890C18	11/16/84	3:00	GW-1803AD			SMJ	1822																
CR002018C18	11/16/84	3:33	GW-02-AT			SMJ	1822																
CR002038C18	11/16/84	4:05	GW-0205-A			SMJ	1822																
CR002040C18	11/16/84	4:31	GW-0206-A			SMJ	1822																
CR002041C18	11/16/84	5:00	GW-0207-A			SMJ	1822																
CR002042C18	11/16/84	5:32	GW-0208-A			SMJ	1822																
CR002045C18	11/16/84	5:57	GW-0209-A			SMJ	1822																
CR002046C18	11/16/84	6:27	GW-0602-A			SMJ	1822																
CR002049C18	11/16/84	6:56	GW-0603-A			SMJ	1822																
CR002041C18	11/16/84	7:22	GW-0201-A			SMJ	1822																
CR002150C18	11/16/84	7:52	738001-15			SMJ	1822																
CR002154A18	11/16/84	8:39	738001-16			SMJ	1822																
CR002155A18	11/16/84	9:13	738001-22			SMJ	1822	reset light															
CR002155A18	11/16/84	9:41	CVB			SMJ	1822																
CR002155A18	11/16/84	10:34	738001-22			SMJ	1822																
CR002157A18	11/16/84	11:08	738001-25			SMJ	1822																
CR002158A18	11/16/84	11:56	738001-22			SMJ	1822																

VERIFIED 11-16-84 DNB 11-20-84
 SUPERVISOR APPROVAL 1136

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Instrument ID: 18 Calibration date: 11/16/89 Time: 1414
 Lab File ID: CS891116A18 Init. Calib. Date(s): 10/31/89 10/31/89
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP
 Min RRF50 for SPCC(%) = 0.100 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Chloromethane	0.899	0.638	29.0
Bromomethane	1.256	0.957	21.8
Vinyl Chloride	0.682	0.600	12.0
Chloroethane	0.745	0.573	23.1
Methylene Chloride	1.311	1.309	0.2
Acetone	0.355	0.348	2.0
Carbon Disulfide	1.700	3.119	15.7
1,1-Dichloroethene	1.350	1.251	7.3
1,1-Dichloroethane	1.947	1.928	1.0
1,2-Dichloroethene (total)	2.904	2.690	7.4
Chloroform	2.584	2.453	5.1
1,2-Dichloroethane	1.908	1.733	9.2
2-Butanone	0.095	0.096	-1.1
1,1,1-Trichloroethane	0.689	0.548	20.5
Carbon Tetrachloride	0.682	0.567	16.9
Vinyl Acetate	0.661	0.497	24.8
Bromodichloromethane	0.647	0.535	17.3
1,2-Dichloropropane	0.310	0.295	5.8
cis-1,3-Dichloropropene	0.597	0.471	21.1
Trichloroethene	0.464	0.437	5.8
Dibromochloromethane	0.618	0.556	10.0
1,1,2-Trichloroethane	0.319	0.302	5.3
Benzene	0.808	0.728	9.9
Trans-1,3-Dichloropropene	0.303	0.217	28.4
Bromoform	0.510	0.411	19.4
4-Methyl-2-Pentanone	0.364	0.332	8.8
2-Hexanone	0.227	0.192	15.4
Tetrachloroethene	0.547	0.502	8.2
1,1,2,2-Tetrachloroethane	0.521	0.439	15.7
Toluene	0.703	0.602	14.4
Chlorobenzene	1.002	0.940	6.2
Ethylbenzene	0.461	0.402	12.8
Styrene	1.098	1.073	2.3
Total Xylenes	1.403	1.340	4.5
Toluene-d8	1.090	1.014	7.0
BFB	0.744	0.669	10.1
1,2-Dichloroethane-d4	1.855	1.765	4.9

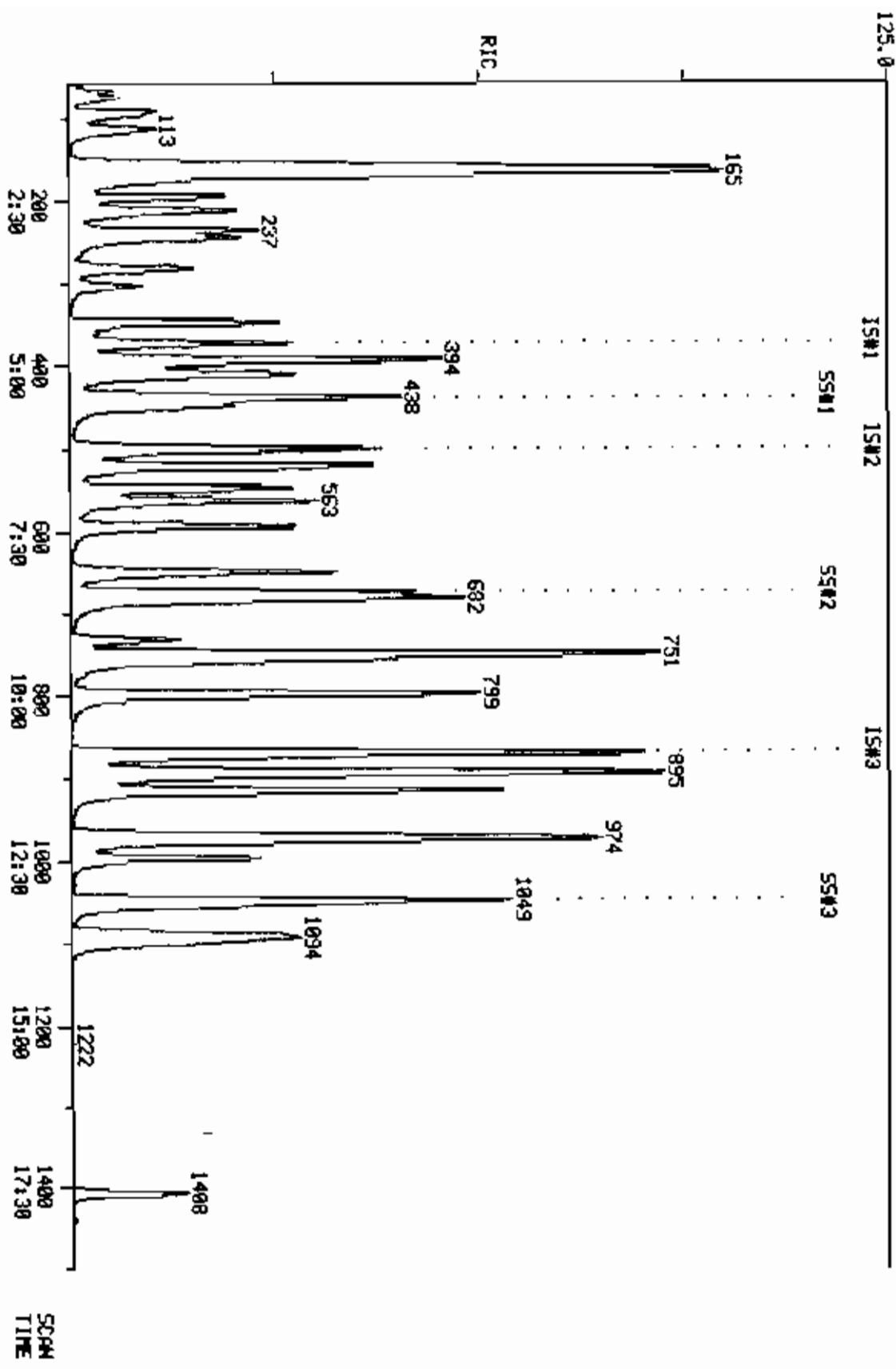
FORM VII VOA

1/87 Rev.

RIC
 11/16/89 14:14:00
 SAMPLE: SML EPA INDUSTRIOS0 STD#1902 Q#118
 COND.: :

CONPUCEM LABS
 CONPUCEM DATA: CS891116A10 SCANS 58 TO 1500

141280.



QUANTITATION REPORT FILE: C8891116A1B
DATA: C8891116A1B.TI ✓
11/16/89 14:14:00 ✓
SAMPLE: 5ML EPA ID#VSTD050 STD#1902 DN#18 ✓
CONDS. :
SUBMITTED BY: 18 ANALYST: 1577 ✓

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (18) <75-97-3> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	230 TRICHLOROFLUOROMETHANE <75-69-4> WE#6
7	201 ACROLEIN <107-02-8> WE#7
8	216 1,1-DICHLOROETHENE <75-35-4> WE#8
9	254 CARBON DISULFIDE <75-15-0> WE#9
10	285 IODOMETHANE <74-88-4> WE#10
11	297 1,1,1-TRICHLORO-2,2,2-TRIFLUOROETHANE <354-58-5> WE#11
12	266 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE <76-13-1> WE#12
13	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
14	*248 1,4-DIFLUOROBENZENE (18) <340-36-3> WE#14
15	298 3-CHLOROPROPENE <107-05-1> WE#15
16	222 METHYLENE CHLORIDE <75-09-2> WE#16
17	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
18	202 ACRYLONITRILE <107-13-1> WE#18
19	214 1,1-DICHLOROETHANE <75-34-3> WE#19
20	257 VINYL ACETATE <108-05-4> WE#20
21	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
22	253 2-BUTANONE <78-93-3> WE#22
23	211 CHLOROFORM <67-66-2> WE#23
24	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
25	206 CARBON TETRACHLORIDE <56-23-5> WE#25
26	203 BENZENE <71-43-2> WE#26
27	215 1,2-DICHLOROETHANE <107-06-2> WE#27
28	272 CROTONALDEHYDE <4170-30-3> WE#28
29	*270 O5-CHLOROBENZENE (18) <XXX-XX-X> WE#29
30	229 TRICHLOROETHENE <79-01-6> WE#30
31	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
32	286 DIBROMOMETHANE <74-95-3> WE#32
33	212 BROMODICHLOROMETHANE <75-27-4> WE#33
34	210 2-CHLOROETHYL VINYL ETHER <110-75-8> WE#34
35	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
36	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
37	225 TOLUENE <108-88-3> WE#37
38	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
39	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
40	287 ETHYLMETHACRYLATE <96-18-4> WE#40
41	224 TETRACHLOROETHENE <127-18-4> WE#41
42	255 2-HEXANONE <991-78-6> WE#42
43	208 DIBROMOCHLOROMETHANE .124-48-1> WE#43
44	245 1,2-DIBROMOETHANE <1060-93-4> WE#44
45	207 CHLOROBENZENE <108-90-7> WE#45
46	273 1,1,1,2-TETRACHLOROETHANE <630-20-6> WE#46

NO NAME
 47 219 ETHYLBENZENE <100-41-4> WE#47
 48 330 M,P-XYLENE <133-02-7> WE#48
 49 239 O-XYLENE <133-02-7> WE#49
 50 251 STYRENE <100-42-5> WE#50
 51 205 BROMOFORM <75-25-2> WE#51
 52 274 C18-1,4-DICHLORO-2-BUTENE <764-71-0> WE#52
 53 275 1,2,3-TRICHLOROPROPANE <96-18-4> WE#53
 54 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
 55 290 TRANS-1,4-DICHLORO-2-BUTENE <110-57-6> WE#55
 56 262 1,2-DIBROMO-3-CHLOROPROPANE <96-12-8> WE#56
 57 #258 D4-1,2-DICHLOROETHANE WE#57
 58 #247 BROMOFLUOROBENZENE <460-00-4> WE#58
 59 #233 O8-TOLUENE WE#59

Offset
11-17-89

NO	M/E	BCAW	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
1	128	373	4:40	1	1.000	A BB	39066.	50.000 UG/L	0.14
2	50	68	0:51	1	0.182	A BB	24918.	46.251 UG/L	0.13
3	62	76	0:57	1	0.204	A BB	23445.	50.566 UG/L	0.14
4	94	91	1:08	1	0.244	A BB	37384.	47.309 UG/L	0.13
5	64	98	1:13	1	0.263	A BB	22393.	49.705 UG/L	0.13
6	101	113	1:25	1	0.303	A BB	54253.	38.601 UG/L	0.10
7	56	155	1:56	1	0.416	A BB	33635.	19662.600 UG/L	53.27
8	96	156	1:57	1	0.418	A BB	48875.	48.760 UG/L	0.13
9	76	166	2:04	1	0.445	A BB	121839.	52.607 UG/L	0.14
10	142	165	2:04	1	0.442	A BB	137331.	51.424 UG/L	0.14
11	117	164	2:03	1	0.440	A BB	39873.	46.816 UG/L	0.13
12	85	166	2:04	1	0.445	A BB	40753.	44.805 UG/L	0.12
13	43	172	2:09	1	0.461	A BB	13589.	36.424 UG/L	0.10
14	114	501	6:16	14	1.000	A BB	195686.	50.000 UG/L	0.14
15	76	195	2:26	1	0.523	A BB	17455.	47.124 UG/L	0.13
16	84	211	2:38	1	0.566	A BB	51146.	49.214 UG/L	0.13
17	96	236	2:57	1	0.633	A BB	46989.	48.278 UG/L	0.13
18	53	246	3:04	1	0.660	A BB	84296.	14037.700 UG/L	38.03
19	63	263	3:32	1	0.759	A BB	75332.	46.881 UG/L	0.13
20	43	304	3:48	14	0.607	A BB	77450.	48.402 UG/L	0.13
21	96	348	4:21	1	0.933	A BB	58102.	52.075 UG/L	0.14
22	72	362	4:31	1	0.971	A BB	3745.	48.990 UG/L	0.13
23	83	392	4:54	1	1.051	A BB	95847.	47.738 UG/L	0.13
24	97	395	4:56	14	0.788	A BB	85313.	48.162 UG/L	0.13
25	117	411	5:08	14	0.820	A VB	88248.	47.301 UG/L	0.13
26	78	438	5:28	14	0.874	A BB	113290.	47.381 UG/L	0.13
27	62	449	5:37	1	1.204	A BB	67717.	48.160 UG/L	0.13
28	70	496	6:12	14	0.990	A BB	23819.	488.341 UG/L	1.32
29	117	869	10:52	29	1.000	A BB	140397.	50.000 UG/L	0.14
30	130	520	6:30	14	1.038	A BB	67979.	47.442 UG/L	0.13
31	63	548	6:51	14	1.094	A BB	45919.	48.149 UG/L	0.13
32	174	563	7:02	1	1.509	A BB	61809.	50.063 UG/L	0.14
33	83	594	7:25	14	1.186	A BB	83246.	47.199 UG/L	0.13
34	63	646	8:04	14	1.289	A BB	14155.	43.258 UG/L	0.12
35	75	651	8:08	14	1.299	A BB	73254.	47.604 UG/L	0.13
36	43	684	8:33	29	0.787	A BB	46602.	48.060 UG/L	0.13
37	92	683	8:32	29	0.786	A BB	84563.	47.275 UG/L	0.13
38	75	732	9:09	14	1.461	A BB	33825.	46.672 UG/L	0.13
39	97	752	9:24	14	1.501	A BB	47009.	46.442 UG/L	0.13
40	69	758	9:28	29	0.872	A BB	48508.	46.488 UG/L	0.13
41	164	750	9:22	29	0.863	A BB	70444.	51.696 UG/L	0.14

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	XTOT
42	43	802	10:01	29	0.923	A BB	27015.	43.107 UG/L	0.12
43	129	798	9:58	14	1.593	A BB	86573.	47.606 UG/L	0.13
44	107	801	10:01	14	1.599	A BB	76453.	48.437 UG/L	0.13
45	112	873	10:55	29	1.005	A BB	131919.	46.962 UG/L	0.13
46	131	893	11:10	14	1.782	A BB	76399.	48.737 UG/L	0.13
47	106	897	11:13	29	1.032	A BV	56474.	46.579 UG/L	0.13
48	106	916	11:27	29	1.054	A VB	98267.	47.061 UG/L	0.13
49	106	970	12:07	29	1.116	A BB	89863.	48.989 UG/L	0.13
50	104	976	12:12	29	1.123	A BB	150603.	48.762 UG/L	0.13
51	173	998	12:28	14	1.992	A BB	63982.	47.896 UG/L	0.13
52	88	1054	13:10	14	2.104	A BV	18156.	47.524 UG/L	0.13
53	110	1088	13:36	29	1.252	A BB	24570.	48.145 UG/L	0.13
54	83	1095	13:41	29	1.260	A BB	61563.	45.395 UG/L	0.12
55	53	1101	13:46	29	1.267	A BB	16595.	46.295 UG/L	0.13
56	157	1408	17:36	29	1.620	A BB	24247.	95.108 UG/L	0.26
57	65	439	5:29	1	1.177	A BB	68939.	53.348 UG/L	0.14
58	95	1049	13:07	29	1.207	A BB	93849.	51.398 UG/L	0.14
59	98	675	8:26	29	0.777	A BB	142367.	50.633 UG/L	0.14

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:43	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51	1.00	10.000	0.02	46.25	50.00	0.638	0.690	0.93
3	0:58	0.99	10.000	0.02	50.57	50.00	0.600	0.593	1.01
4	1:10	0.98	10.000	0.02	47.31	50.00	0.957	1.011	0.95
5	1:14	0.99	10.000	0.03	49.70	50.00	0.573	0.577	0.99
6	1:27	0.97	10.000	0.03	38.60	50.00	1.389	1.799	0.77
7	2:00	0.97	90.000	0.00	19662.60	500.01	0.086	0.002	37.32
8	1:59	0.98	5.000	0.08	48.76	50.00	1.251	1.283	0.98
9	2:07	0.98	5.000	0.09	52.61	50.00	3.119	2.964	1.05
10	2:07	0.98	10.000	0.04	51.42	50.00	3.515	3.418	1.03
11	2:05	0.98	10.000	0.04	46.82	50.00	1.021	1.070	0.94
12	2:06	0.99	10.000	0.04	44.81	50.00	1.043	1.164	0.90
13	2:13	0.97	10.000	0.05	36.42	50.00	0.348	0.478	0.73
14	6:19	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
15	2:29	0.98	15.000	0.03	47.12	50.00	0.447	0.474	0.94
16	2:42	0.98	5.000	0.11	49.21	50.00	1.309	1.330	0.98
17	3:01	0.98	5.000	0.13	48.28	50.00	1.203	1.246	0.97
18	3:08	0.98	120.000	0.01	14037.70	500.01	0.216	0.008	28.08
19	3:36	0.98	5.000	0.15	46.88	50.00	1.928	2.057	0.94
20	3:52	0.98	10.000	0.06	48.40	50.00	0.497	0.514	0.97
21	4:25	0.98	5.000	0.19	52.07	50.00	1.487	1.428	1.04
22	4:37	0.98	10.000	0.10	48.99	50.00	0.096	0.098	0.98
23	4:58	0.98	5.000	0.21	47.74	50.00	2.453	2.570	0.95
24	5:00	0.99	5.000	0.16	48.16	50.00	0.548	0.569	0.96
25	5:11	0.99	5.000	0.16	47.30	50.00	0.567	0.599	0.95
26	5:31	0.99	5.000	0.17	47.38	50.00	0.728	0.768	0.95
27	5:40	0.99	5.000	0.24	48.16	50.00	1.733	1.800	0.96
28	6:16	0.99	100.000	0.01	488.34	500.01	0.015	0.016	0.98
29	10:54	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
30	6:34	0.99	5.000	0.21	47.44	50.00	0.437	0.460	0.95
31	6:55	0.99	5.000	0.22	48.15	50.00	0.295	0.306	0.96
32	7:05	0.99	5.000	0.30	50.06	50.00	1.582	1.580	1.00
33	7:28	0.99	5.000	0.24	47.20	50.00	0.535	0.566	0.94
34	8:07	1.00	10.000	0.13	43.26	50.00	0.091	0.105	0.87
35	8:10	1.00	5.000	0.26	47.60	50.00	0.471	0.494	0.95
36	8:36	0.99	15.000	0.05	48.06	50.00	0.332	0.345	0.96

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
37	8:34	1.00	5.000	0.16	47.27	50.00	0.602	0.637	0.95
38	9:11	1.00	5.000	0.29	46.67	50.00	0.217	0.233	0.93
39	9:27	0.99	5.000	0.30	46.44	50.00	0.302	0.325	0.93
40	9:31	0.99	10.000	0.09	46.49	50.00	0.346	0.372	0.93
41	9:25	1.00	5.000	0.17	51.70	50.00	0.502	0.485	1.03
42	10:03	1.00	15.000	0.06	43.11	50.00	0.192	0.223	0.86
43	10:01	1.00	5.000	0.32	47.61	50.00	0.556	0.584	0.95
44	10:03	1.00	5.000	0.32	48.44	50.00	0.491	0.507	0.97
45	10:57	1.00	5.000	0.20	46.96	50.00	0.940	1.001	0.94
46	11:12	1.00	5.000	0.36	48.74	50.00	0.491	0.503	0.97
47	11:14	1.00	5.000	0.21	46.58	50.00	0.402	0.432	0.93
48	11:28	1.00	5.000	0.21	47.06	50.00	0.700	0.744	0.94
49	12:09	1.00	5.000	0.22	48.99	50.00	0.640	0.653	0.98
50	12:14	1.00	5.000	0.22	48.76	50.00	1.073	1.100	0.98
51	12:29	1.00	5.000	0.40	47.90	50.00	0.411	0.429	0.96
52	13:13	1.00	15.000	0.14	47.52	50.00	0.117	0.123	0.95
53	13:37	1.00	15.000	0.08	48.15	50.00	0.175	0.182	0.96
54	13:42	1.00	5.000	0.25	45.40	50.00	0.439	0.483	0.91
55	13:48	1.00	15.000	0.08	46.30	50.00	0.118	0.128	0.93
56	17:37	1.00	10.000	0.16	95.11	100.00	0.086	0.091	0.95
57	5:33	0.99	5.000	0.24	53.35	50.00	1.765	1.654	1.07
58	13:07	1.00	5.000	0.24	51.40	50.00	0.669	0.650	1.03
59	8:29	0.99	5.000	0.16	50.63	50.00	1.014	1.002	1.01

COMPU-CHEM LABORATORIES, INC.
GC/MS ANALYSIS LOG

RUN LOG

PREVENTIVE MAINTENANCE

INITIAL TIME OF TUNE 14:03
TIME TUNE EXPIRES 2:03

SHIFT(S) (A) (B) (C)
DATE 11-16-89
ANALYSIS TYPE WTELL

DATE	TIME	EPA ID	CASE NO	STD. ID. #	ANALY. METHOD	CHEMIST	COMMENTS (LW #, Deposition, Etc.)	DATE	PREVENTIVE MAINTENANCE		
									DATE	TIME	BY
11/16/89	19:51	8FB		7008	2 ml	1577	30541				
	14:03	8FB			2 ml						
	14:14	VST0050		1402	5 ml	"					
	15:14	VBK NP			5 ml	"					
	17:14	738001-26	18410		5ml	1007					
	17:43	738001-21	18410		5ml	1009					
	18:14	738001-17	18410		5ml	1009					
	18:52	738001-18	18410		5ml	1005					
	19:33	738001-17	18410		5ml	1009					
	20:21	738001-13	18410		5ml	1009					
	21:05	738001-14	18410		5ml	1009					
	21:58	738001-24	18410		5ml	1009					
	22:39	738001-23	18410		5ml	1004					
	23:40	738001-23 DE	18410		5ml	1009					
	0:33	6W-01-4R	17660, 501		5ml	1422					
	1:21	6W-01-4R	17660, 501		5ml	1422					
	2:55	CUO			7 ml	1422					
	7:55	14B			5ml	1422					

VERIFIED DISL 11-17-89
SUPERVISOR APPROVAL KQL 11-17-89

- (3) Internal Standard Area Summary (Form VII YOA) - In order by instrument, if more than one instrument used.

When more than one continuing calibration is performed, forms must be in chronological order, by instrument.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMFU Case No.: 19410 SAS No.: _____ SDG No.: 05
 Lab File ID (Standard): C8891115C12 Date Analyzed: 11/15/89
 Instrument ID: 12 Time Analyzed: 0136
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	72900	6.00	292000	7.70	260000	12.44
UPPER LIMIT	145800		584000		520000	
LOWER LIMIT	36450		146000		130000	
EPA SAMPLE NO.						
01 738001-06	71300	5.92	308000	7.65	282000	12.40
02 VBLKLB	75500	5.97	303000	7.68	275000	12.44

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Lab File ID (Standard): C8891115A12 Date Analyzed: 11/15/89
 Instrument ID: 12 Time Analyzed: 1240
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	59900	5.95	242000	7.67	225000	12.44
UPPER LIMIT	119800		484000		450000	
LOWER LIMIT	29950		121000		112500	
EPA SAMPLE NO.						
01 738001-01	68700	5.98	285000	7.70	256000	12.44
02 738001-02	66500	5.95	267000	7.65	244000	12.40
03 738001-03	69000	5.95	287000	7.65	259000	12.40
04 738001-05	70500	5.95	295000	7.67	264000	12.42
05 738001-08	72900	5.95	302000	7.67	270000	12.44
06 738001-10	68600	5.97	288000	7.67	254000	12.42
07 738001-12	72700	5.70	300000	7.40	265000	12.17
08 738001-10MS	77600	5.95	323000	7.68	281000	12.42
09 738001-10MSD	67900	5.95	284000	7.67	252000	12.45
10 VBLKGS	69400	5.90	283000	7.62	261000	12.35

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

BA
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Lab File ID (Standard): CS891116C18 Date Analyzed: 11/16/89
 Instrument ID: 18 Time Analyzed: 0040
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	43800	4.72	173000	6.32	157000	10.90
UPPER LIMIT	87600		346000		314000	
LOWER LIMIT	21900		86500		78500	
EPA SAMPLE NO.						
01 738001-15	44400	4.63	164000	6.23	148000	10.84
02 738001-16	39700	4.65	145000	6.25	133000	10.87
03 738001-22	39100	4.62	146000	6.20	135000	10.82
04 738001-22RE	41000	4.58	150000	6.18	135000	10.82
05 738001-25	39800	4.60	140000	6.20	130000	10.82
06 VBLKDG	43700	4.65	160000	6.25	146000	10.85

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Lab File ID (Standard): C5891116A18 Date Analyzed: 11/16/89
 Instrument ID: 18 Time Analyzed: 1414
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
12 HOUR STD	39100	4.65	156000	6.25	140000	10.85
UPPER LIMIT	78200		312000		280000	
LOWER LIMIT	19550		78000		70000	
EPA SAMPLE NO.						
01 738001-13	42700	4.65	165000	6.25	147000	10.85
02 738001-14	39400	4.62	154000	6.22	140000	10.84
03 738001-17	40900	4.63	148000	6.23	137000	10.84
04 738001-18	41400	4.65	148000	6.25	141000	10.85
05 738001-21	41900	4.60	156000	6.22	141000	10.84
06 738001-23	43100	4.61	160000	6.25	147000	10.85
07 738001-24	42200	4.62	155000	6.22	147000	10.84
08 738001-26	45600	4.65	164000	6.25	152000	10.85
09 VBLKNP	41100	4.60	150000	6.23	139000	10.85

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk

D. RAW GC DATA

- (1) BFB (for each 12-hour period, for each GC/MS system utilized)
 - (a) Bar graph spectrum
 - (B) Mass listing
- (2) Blank Data - in chronological order. NOTE: This order is different from that used for samples.
 - (a) Tabulated results (Form I VOA)
 - (b) Tentatively Identified Compounds (Form I VOA - TIC) - even if none found.
 - (c) Reconstructed ion chromatogram (s) and quantitation report (s) or legible facsimile (GC/MS)
 - (d) TCL spectra with lab generated standard. Data systems which are incapable of dual display shall provide spectra in order.
 - (e) GC/MS library search spectra for Tentatively Identified Compound (s) (TIC) concentrations
- (3) Matrix Spike Data
 - (a) Tabulated results (Form I VOA) of nonspiked TCL compounds. Form I VOA - TIC not required.
 - (b) Reconstructed ion chromatogram (s) and quantitation report (s) or legible facsimile (GC/MS). Spectra not required.
- (4) Matrix Spike Duplicate Data
 - (a) Tabulated results (Form I VOA) of nonspiked TCL compounds. Form I VOA - TIC not required.
 - (b) Reconstructed ion chromatogram (s) and quantitation report (s) or legible facsimile (GC/MS). Spectra not required.

(1) BFB (for each 12-hour period, for each GC/MS system utilized)

(a) Bar graph spectrum

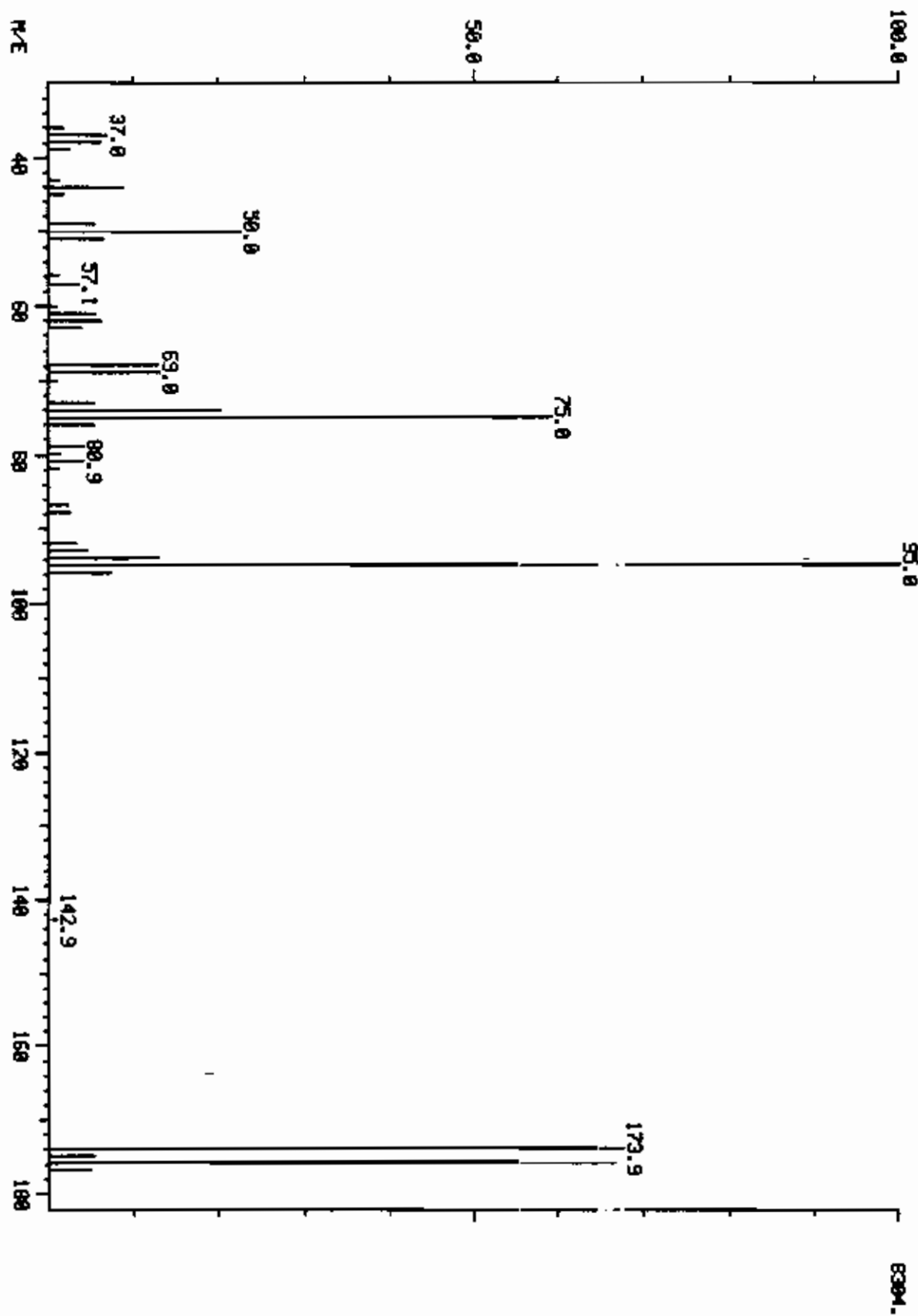
(b) Mass listing

MASS SPECTRUM
10/19/89 22:49:00 + 2:40
SAMPLE 2 UL BFB LOT 30290 ON 12

COMPUchem LABS

DATA: B0391019012 #214

BASE P/E: 95
RIC: 40704.



COMPUCHEM LABS
DATA: B0891019812 # 214 BASE M/E: 95
10/19/89 22:49:00 + 2:40 RIC: 40704
SAMPLE: 2 UL BFB LOT 30290 ON 12

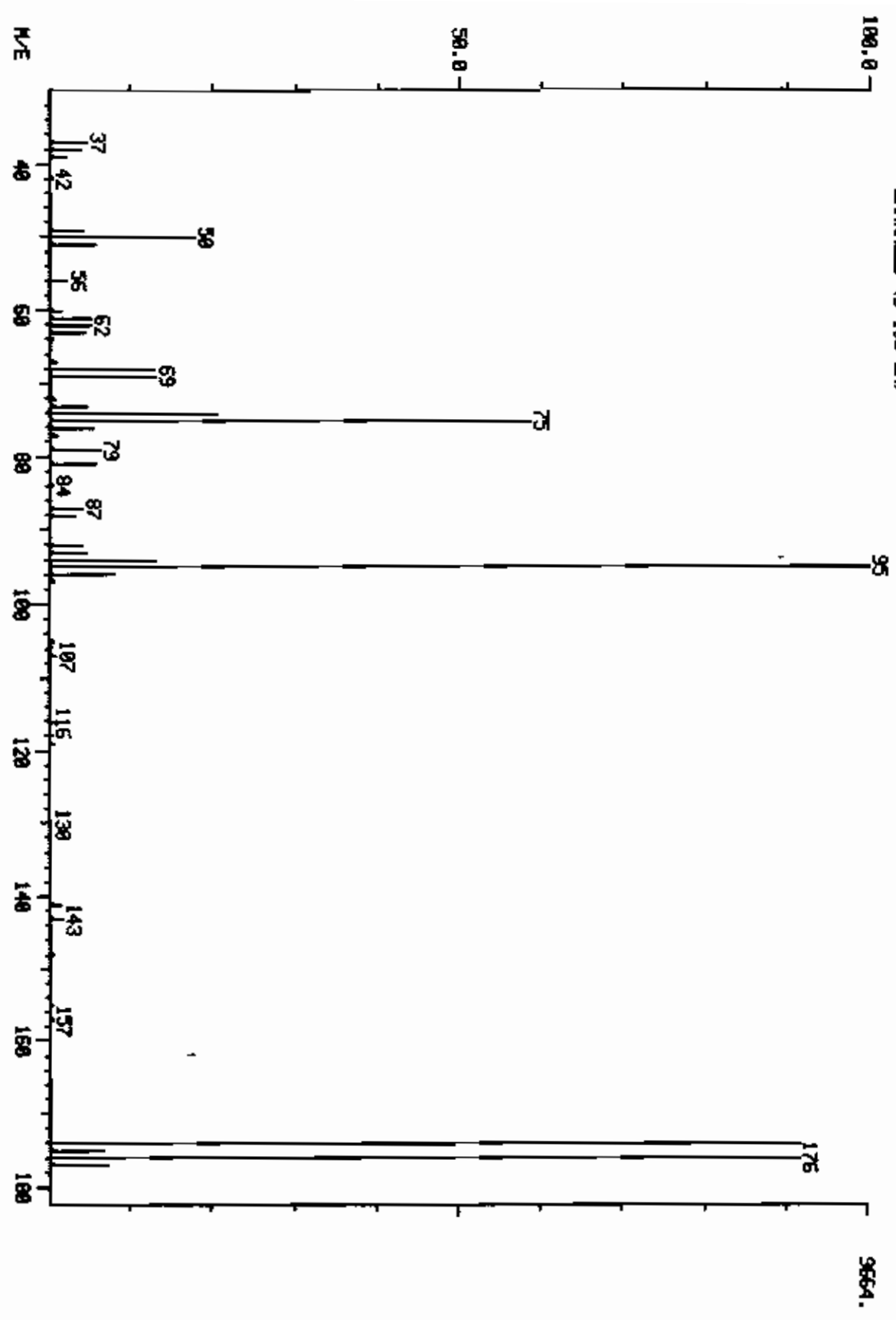
36	0.00	MINIMA	HIN INTEN:	0.	MAX INTEN:	8304.
177 #	0	MAXIMA				
MASS	%	RA				
36	1.85					
37	6.94					
38	6.13					
39	2.53					
43	1.20					
44	8.69					
45	1.70					
49	5.35					
50	22.54					
51	6.35					
56	1.18					
57	3.70					
60	1.00					
61	9.33					
62	6.06					
63	3.77					
68	12.76					
69	13.13					
70	0.90					
73	9.43					
74	20.28					
75	59.15					
76	5.24					
79	3.96					
80	1.40					
81	4.06					
82	1.26					
87	2.25					
88	2.43					
92	3.20					
93	4.52					
94	13.10					
95	100.00					
96	7.38					
143	1.10					
174	67.63					
175	5.35					
176	66.47					
177	4.73					

MASS SPECTRUM
11/15/89 1:21:00 + 2:54
SAMPLE: ZUL PFB #39448 ON #12
ENHANCED (S 158 2N)

COMPUCHEN LABS

DATA: BF89111SC12 #232

BASE M/E: 95
RIC: 51584,



COMPUchem LABS

MASS LIST

DATA: BFB91115C12 @ 232

BASE M/E: 95

11/15/89 1:21:00 + 2:54

RIC: 57728.

SAMPLE: ZUL BFB @30440 ON #12

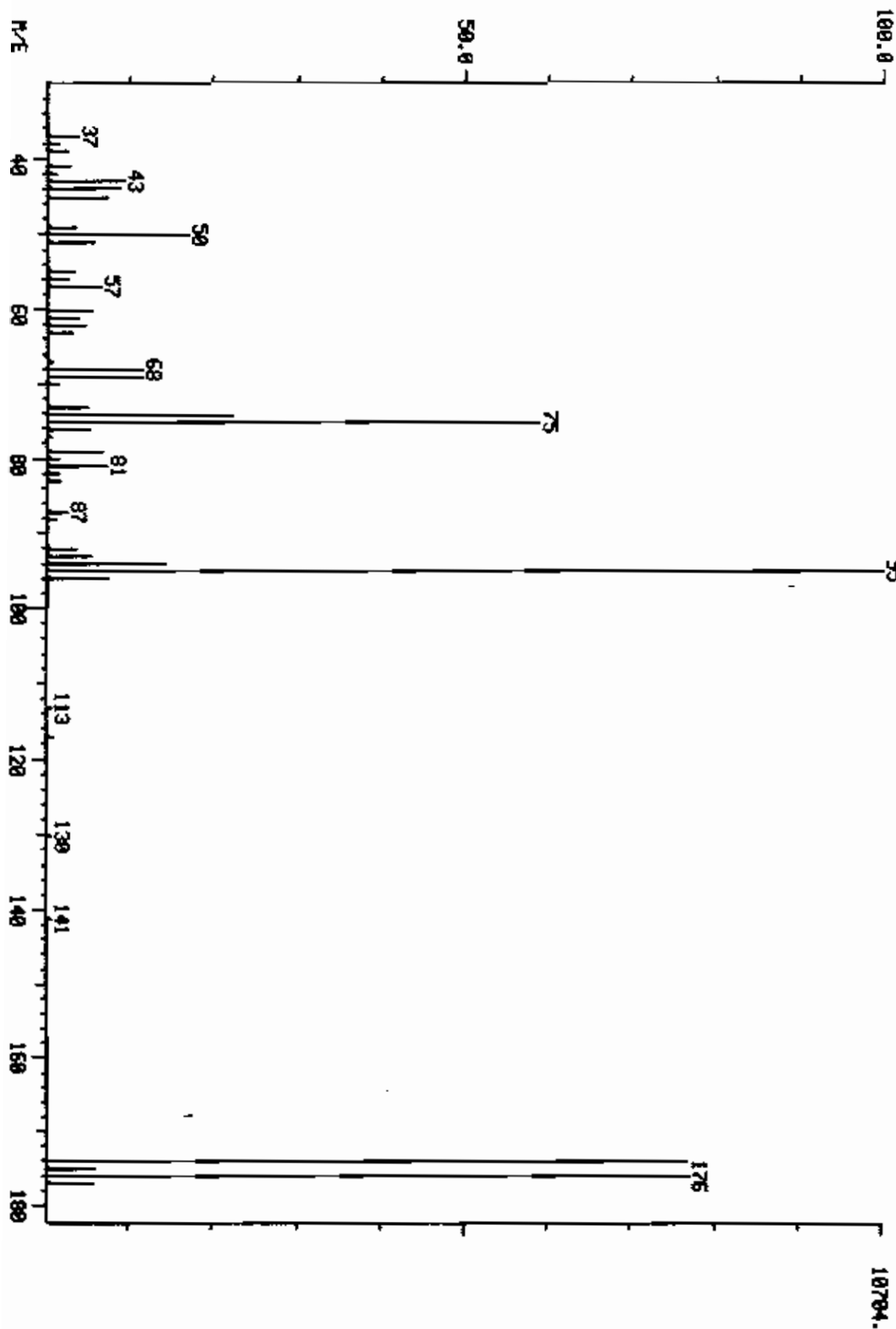
37	0.00	MINIMA	NIN INTEN:	0.	MAX INTEN:	10336.
177 @	0	MAXIMA				
MASS	X RA	MASS	X RA			
37	3.68	130	1.18			
38	3.91	135	1.69			
39	2.04	141	1.84			
41	2.23	143	1.59			
42	1.11	148	0.74			
43	2.79	157	0.82			
44	8.43	174	89.94			
45	2.47	175	6.16			
49	3.94	176	85.45			
50	17.22	177	7.40			
51	4.58					
53	0.74					
55	3.55					
56	3.15					
57	4.50					
60	1.44					
61	4.42					
62	3.42					
63	4.49					
64	1.15					
67	1.81					
68	11.57					
69	14.32					
70	1.44					
71	0.82					
72	0.80					
73	4.09					
74	21.25					
75	35.11					
76	5.65					
77	1.16					
79	6.36					
80	2.18					
81	7.92					
82	1.27					
83	1.86					
84	0.74					
87	4.24					
88	2.32					
91	1.04					
92	3.72					
93	4.41					
94	12.15					
95	100.00					
96	9.01					
97	1.70					
105	0.73					
107	0.97					
116	0.91					
117	1.04					
119	0.95					

MASS SPECTRUM
11/15/89 13:26:00 + 2:35
SAMPLE: 20L EPA ID#00FB (R00541) ON #12
#234 TO #235 SUMMED

COMPUCHEN LABS

DATA: BF091115A12 #234

BASE M/E: 95
RIC: 57489.



COMPUCHEM LABS

MAGS LIST

DATA: BFB91115A12 # 234

BASE M/E: 95

11/15/89 13:26:00 + 2:55

RIC: 57409.

SAMPLE: 2UL EP4 ID#BFB (#30541) ON #12

#234 TO #235 SUMMED

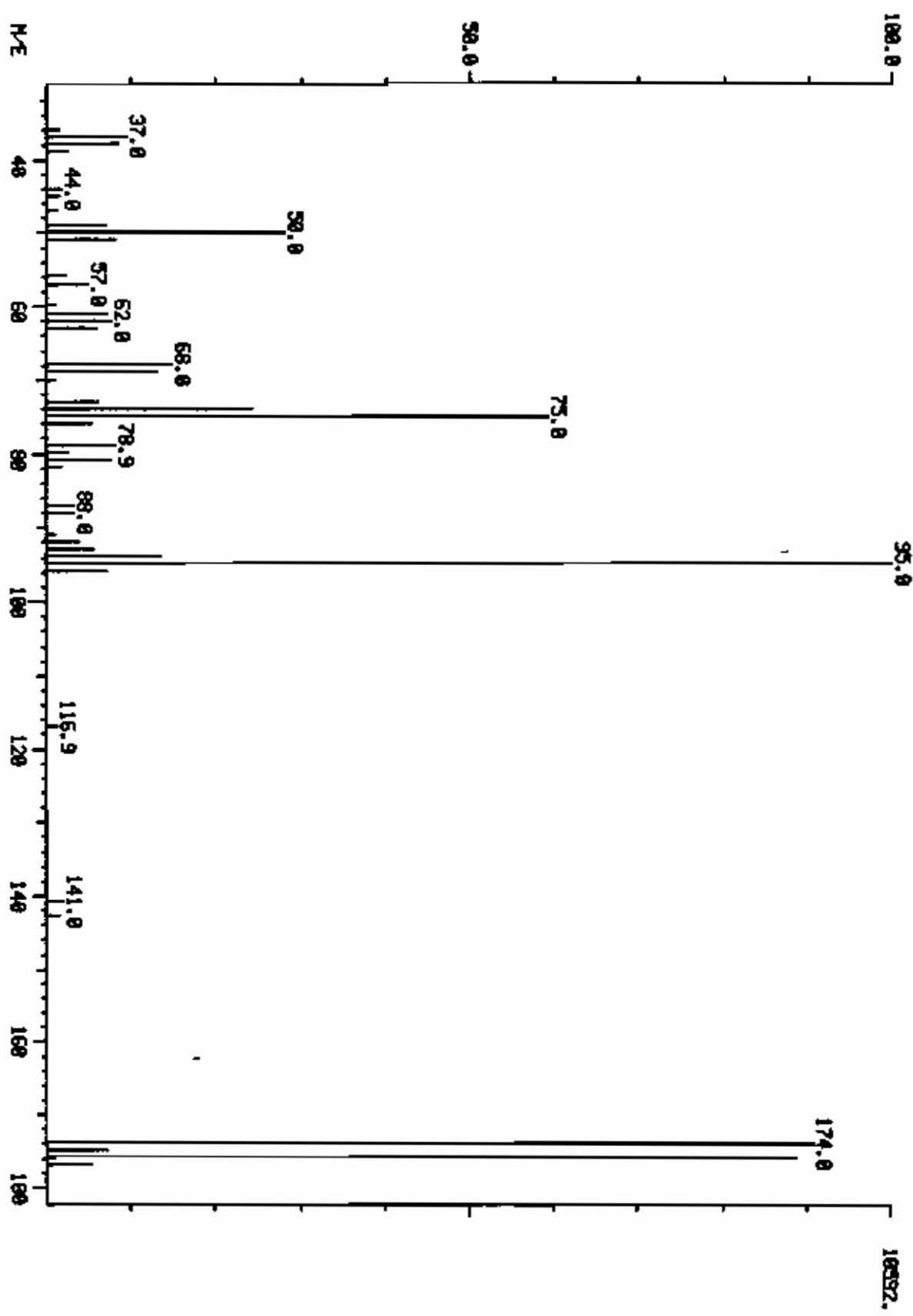
MAGS	% RA	MIN INTEN:	MAX INTEN:
37	0.00	MINIMA	0
177	0	MAXIMA	10704.
37	4.05		
38	1.92		
39	2.66		
41	2.96		
42	1.20		
43	9.34		
44	8.95		
45	7.31		
49	3.79		
50	17.00		
51	5.74		
55	3.44		
56	2.69		
57	6.55		
60	5.47		
61	3.94		
62	4.78		
63	3.09		
67	0.71		
68	11.45		
69	11.42		
70	1.61		
73	4.87		
74	22.20		
75	58.89		
76	5.32		
77	0.75		
79	6.86		
80	1.50		
81	7.39		
82	1.62		
83	1.93		
87	2.50		
88	1.32		
92	3.75		
93	5.52		
94	14.37		
95	100.00		
96	7.60		
113	0.88		
117	1.16		
130	0.73		
141	0.90		
174	76.83		
175	6.13		
176	76.98		
177	5.78		

MASS SPECTRUM
10/31/89 6143100 + 2119
SAMPLE1 ZUL OF BFB LOT#38346 OM#18

COMPUCHEN LABS

DATA: BK931031C19 #183

BASE M/E: 95
RICH: 61240.



COMPUchem LABS

MASS LIST

10/31/89 4:43:00 + 2:19

DATA: BK891031C18 # 185

BASE M/E: 95

SAMPLE: ZUL OF BFB LOT#30346 DN#18

RIC: 61248.

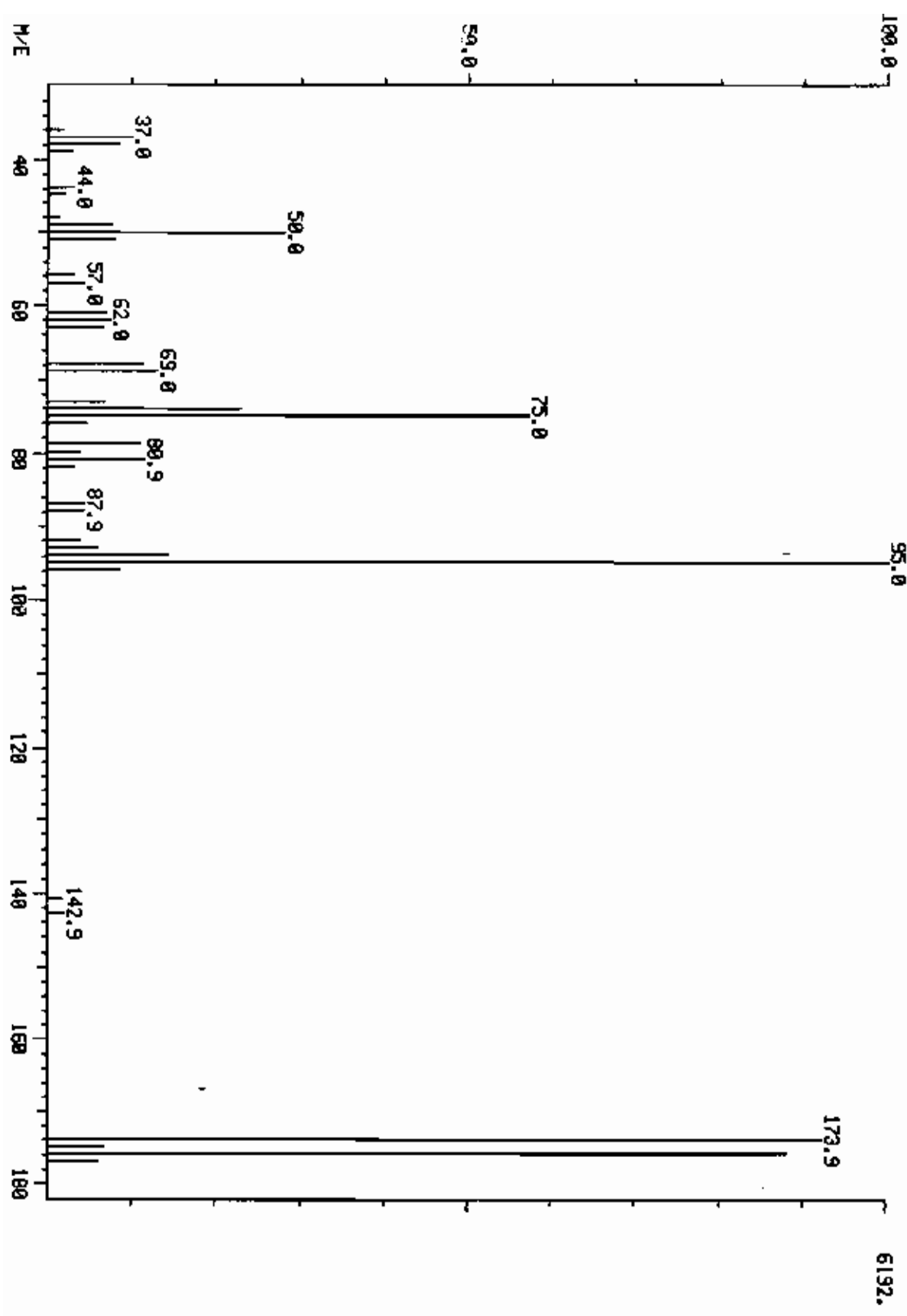
MASS	% RA	MIN INTEN:	MAX INTEN:
36	1.53	0.	10592.
177 #	0		
37	9.52		
38	8.44		
39	2.48		
44	1.82		
45	1.90		
47	1.23		
49	6.93		
50	27.95		
51	8.08		
56	2.31		
57	4.95		
60	1.01		
61	7.15		
62	7.55		
63	5.97		
68	14.75		
69	13.09		
70	1.13		
73	6.04		
74	24.13		
75	59.29		
76	5.32		
79	8.11		
80	2.45		
81	7.64		
82	1.88		
87	3.25		
88	3.41		
91	0.97		
92	3.85		
93	5.60		
94	13.48		
95	100.00		
96	7.20		
117	1.31		
141	1.94		
143	1.55		
174	90.94		
175	7.09		
176	88.67		
177	5.46		

MASS SPECTRUM
11/16/89 0:30:00 + 2:19
SAMPLE: 2UL OF BFB LOT#30541 ON#18

COMPUchem LABS

DATA: BF891116C18 #186

BASE N/E: 95
RIC: 36224.



COMPUCHEM LABS

MASS LIST

DATA: BFB91116C1B # 186

BASE M/E: 95

11/16/89 0:30:00 + 2:19

RIC: 36224.

SAMPLE: 2UL OF BFB LOT#30541 ON#18

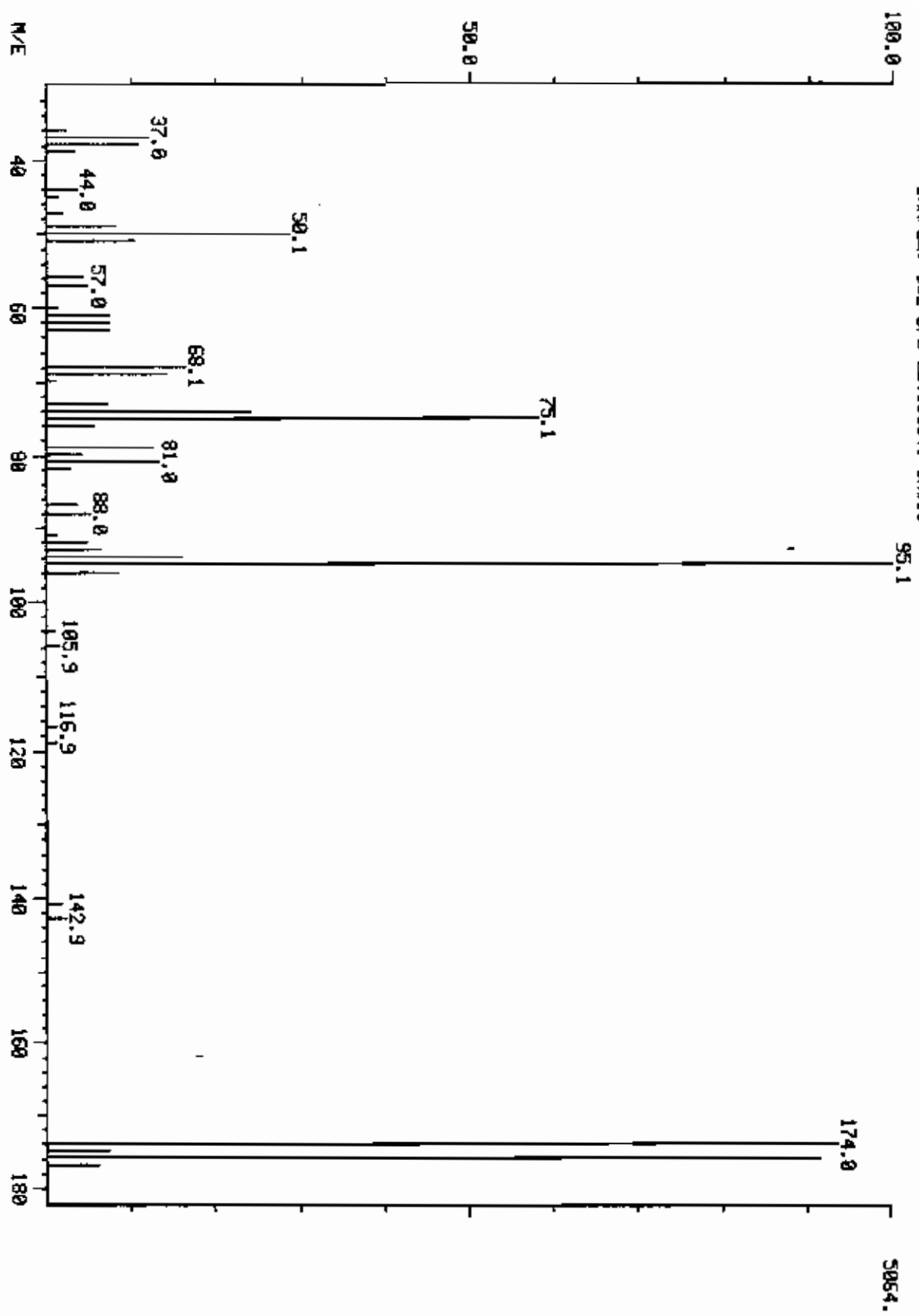
36	D. 00	MINIMA	MIN INTEN:	0.	MAX INTEN:	6192.
177 #	0	MAXIMA				
MASS	X	RA				
36	1.73					
37	10.05					
38	8.38					
39	2.87					
44	3.04					
45	2.02					
48	1.23					
49	7.67					
50	28.17					
51	7.86					
56	2.94					
57	4.38					
61	6.99					
62	7.49					
63	6.62					
68	11.21					
69	13.05					
73	6.61					
74	22.87					
75	57.17					
76	4.67					
79	11.00					
80	3.84					
81	11.39					
82	3.12					
87	4.28					
88	4.38					
92	3.75					
93	5.91					
94	14.31					
95	100.00					
96	8.30					
141	1.68					
143	2.12					
174	92.25					
175	6.62					
176	88.11					
177	5.78					

MASS SPECTRUM
11/16/89 14:03:00 + 2:19
SAMPLE: 2UL BFB LOT#30541 ON#18

COMPUCHER LABS

DATA: B3891116A18 #186

BASE M/E: 95
R/C: 3176.



COMPUchem LABS

MASS LIST

DATA: B0891116A1B # 186

BASE M/E: 95

11/16/89 14:03:00 + 2:19

RIC: 31776

SAMPLE: 2UL BFB LOT#30541 ON#18

36	0.00	MINIMA	MIN INTEN:	0.	MAX INTEN:	5064.
177 #	0	MAXIMA				
MASS	%	RA				
36	2.23					
37	12.05					
38	10.76					
39	3.32					
44	3.63					
45	1.38					
47	1.74					
49	8.04					
50	28.51					
51	10.45					
56	4.32					
57	4.74					
60	1.28					
61	7.35					
62	7.48					
63	7.37					
68	16.41					
69	13.92					
70	1.05					
73	7.17					
74	24.09					
75	57.82					
76	5.55					
79	12.48					
80	4.17					
81	13.25					
82	2.90					
87	3.65					
88	5.13					
91	1.18					
92	4.80					
93	6.32					
94	15.98					
95	100.00					
96	8.41					
104	1.13					
106	1.56					
117	1.26					
119	1.18					
141	1.76					
143	2.23					
174	93.68					
175	7.33					
176	91.47					
177	6.18					

- (2) Blank Data - In chronological order. NOTE: This order is different from that used for samples.
- (a) Tabulated results (Form I VOA)
 - (b) Tentatively Identified Compounds (Form I VOA - TIC) - even if none found.
 - (c) Reconstructed Ion chromatogram (s) and quantitation report (s) or legible facsimile (GC/MS)
 - (d) TCL spectra with lab generated standard. Data systems which are incapable of dual display shall provide spectra in order:
 - Raw TCL compound spectra
 - Enhanced or background subtracted spectra
 - Laboratory generated TCL standard spectra
 - (e) GC/MS library search spectra for Tentatively Identified Compound (s) (TIC) concentrations

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKLB

Lab Name: COMPUCHEM LABS Contract: (2-89)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: VBLKLB
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CB891115C12
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKLB

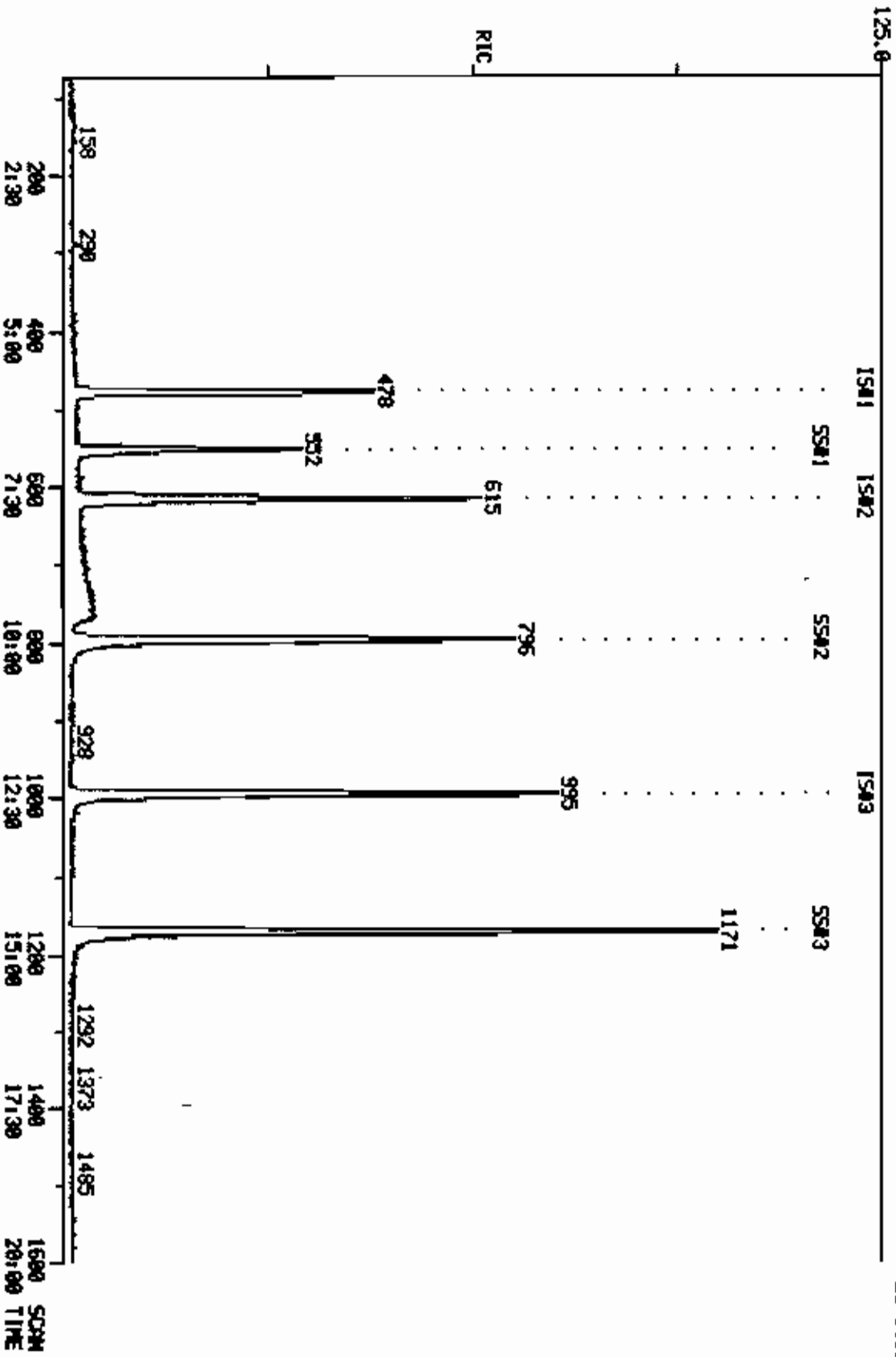
Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
Lab Code: COMFU Case No.: 18410 SAS No.: _____ SDG No.: 05
Matrix: (soil/water) WATER Lab Sample ID: VBLKLB
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CB891115C12
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 11/15/89
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
-----	-----	-----	-----	-----

RIC
11/15/89 2:28:00
SAMPLE: SML UOLKLB ON #12
COND.S:

COMPUCHEN LABS
COMPUCHEN DATA: 08891115C12 SQMS 74 TO 1690



QUANTITATION REPORT FILE: CB891115C12
 DATA: CB891115C12.TI
 11/15/89 2:28:00
 SAMPLE: 5ML VBLKLB ON 012
 CONDS.:
 SUBMITTED BY: 12 ANALYST: 1539

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

- | NO | NAME |
|----|--|
| 1 | *234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1 |
| 2 | 221 CHLOROMETHANE <74-87-3> WE#2 |
| 3 | 231 VINYL CHLORIDE <75-01-4> WE#3 |
| 4 | 220 BROMOMETHANE <78-63-9> WE#4 |
| 5 | 209 CHLOROETHANE <75-00-3> WE#5 |
| 6 | 216 1,1-DICHLOROETHENE <75-35-4> WE#8 |
| 7 | 254 CARBON DISULFIDE <75-15-0> WE#9 |
| 8 | 252 ACETONE (2-PROPANONE) <67-64-1> WE#13 |
| 9 | *248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14 |
| 10 | 222 METHYLENE CHLORIDE <75-09-2> WE#16 |
| 11 | 226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17 |
| 12 | 214 1,1-DICHLOROETHANE <75-34-3> WE#19 |
| 13 | 257 VINYL ACETATE <108-05-4> WE#20 |
| 14 | 237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21 |
| 15 | 253 2-BUTANONE <78-93-3> WE#22 |
| 16 | 211 CHLOROFORM <67-66-2> WE#23 |
| 17 | 227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24 |
| 18 | 206 CARBON TETRACHLORIDE <56-23-5> WE#25 |
| 19 | 203 BENZENE <71-43-2> WE#26 |
| 20 | 215 1,2-DICHLOROETHANE <107-06-2> WE#27 |
| 21 | *270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29 |
| 22 | 229 TRICHLOROETHENE <79-01-6> WE#30 |
| 23 | 217 1,2-DICHLOROPROPANE <78-87-5> WE#31 |
| 24 | 212 BROMODICHLOROMETHANE <75-27-4> WE#33 |
| 25 | 218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35 |
| 26 | 256 4-METHYL-2-PENTANONE <108-01-1> WE#36 |
| 27 | 225 TOLUENE <108-88-3> WE#37 |
| 28 | 250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38 |
| 29 | 228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39 |
| 30 | 224 TETRACHLOROETHENE <127-18-4> WE#41 |
| 31 | 255 2-HEXANONE <591-78-6> WE#42 |
| 32 | 208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43 |
| 33 | 207 CHLOROBENZENE <108-90-7> WE#45 |
| 34 | 219 ETHYLBENZENE <100-41-4> WE#47 |
| 35 | 330 M, P-XYLENE <133-02-7> WE#48 |
| 36 | 239 O-XYLENE <133-02-7> WE#49 |
| 37 | 251 STYRENE <100-42-5> WE#50 |
| 38 | 205 BROMOFORM <75-25-2> WE#51 |
| 39 | 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54 |
| 40 | 0298 D4-1,2-DICHLOROETHANE WE#57 |
| 41 | 0247 BROMOFLUOROBENZENE <460-00-4> WE#58 |
| 42 | 0233 D8-TOLUENE WE#59 |

NO	M/E	SCAN	TIME	REF	RT	METH	AREA(HQHT)	AMOUNT	XTOT
1	128	478	5:58	1	1.000	A BB	75524.	50.000 UG/L	16.54
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	XTOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	243	3:02	1	0.508	A*VV	959.	2.982 UG/L	0.99 _{ND}
9	114	619	7:41	9	1.000	A BB	302800.	50.000 UG/L	16.54
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	995	12:26	21	1.000	A BB	275159.	50.000 UG/L	16.54
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	69	551	6:53	1	1.193	A BB	174822.	49.153 UG/L	16.26
41	95	1171	14:38	21	1.177	A BB	252178.	50.246 UG/L	16.62
42	98	796	9:57	21	0.800	A BB	338338.	49.955 UG/L	16.52

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	6:00	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:04		10.000			50.00		0.727	
3	1:10		10.000			50.00		1.078	
4	1:28		10.000			50.00		1.307	
5	1:39		10.000			50.00		0.609	
6	2:43		5.000			50.00		1.442	
7	2:51		5.000			50.00		3.767	
8	3:05	0.98	10.000	0.05	2.98	50.00	0.013	0.213	0.06
9	7:42	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	3:39		5.000			50.00		1.456	
11	4:02		5.000			50.00		1.518	
12	4:43		5.000			50.00		2.423	
13	5:01		10.000			50.00		0.534	
14	5:38		5.000			50.00		1.765	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	5:52		10.000			50.00		0.128	
16	6:15		5.000			50.00		3.164	
17	6:18		5.000			50.00		0.841	
18	6:31		5.000			50.00		0.716	
19	6:52		5.000			50.00		0.883	
20	7:01		5.000			50.00		2.452	
21	12:26	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	7:58		5.000			50.00		0.469	
23	8:19		5.000			50.00		0.355	
24	8:33		5.000			50.00		0.918	
25	9:37		5.000			50.00		0.916	
26	9:32		15.000			50.00		0.199	
27	10:02		5.000			50.00		0.815	
28	10:41		5.000			50.00		0.380	
29	10:58		5.000			50.00		0.346	
30	10:58		5.000			50.00		0.515	
31	11:31		13.000			50.00		0.148	
32	11:32		5.000			50.00		0.475	
33	12:28		5.000			50.00		0.988	
34	12:45		5.000			50.00		0.485	
35	12:59		5.000			50.00		0.746	
36	13:40		5.000			50.00		0.677	
37	13:44		5.000			50.00		1.058	
38	14:01		5.000			50.00		0.365	
39	15:10		5.000			50.00		0.575	
40	6:55	1.00	5.000	0.23	49.15	50.00	2.315	2.355	0.98
41	14:38	1.00	5.000	0.24	50.25	50.00	0.916	0.912	1.00
42	9:56	1.00	5.000	0.16	49.96	50.00	1.230	1.231	1.00

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (1S)	478	75300	50.0		
221	50	CHLOROMETHANE				BDL	1
231	62	VINYL CHLORIDE				BDL	1
220	94	BROMOMETHANE				BDL	1
209	64	CHLOROETHANE				BDL	1
216	96	1,1-DICHLOROETHENE				BDL	
254	76	CARBON DISULFIDE				BDL	
252	43	ACETONE (2-PROPANONE)			3.8	BDL	1
248	114 I	1,4-DIFLUOROBENZENE (1B)	615	303000	50.0		
222	84	METHYLENE CHLORIDE				BDL	
226	96	TRANS-1,2-DICHLOROETHENE				BDL	
214	63	1,1-DICHLOROETHANE				BDL	
257	43	VINYL ACETATE				BDL	1
237	96	CIS-1,2-DICHLOROETHENE				BDL	
253	72	2-BUTANONE				BDL	1
211	83	CHLOROFORM				BDL	
227	97	1,1,1-TRICHLOROETHANE				BDL	
206	117	CARBON TETRACHLORIDE				BDL	
203	78	BENZENE				BDL	
215	62	1,2-DICHLOROETHANE				BDL	
270	117 I	DS-CHLOROBENZENE (1S)	995	275000	50.0		
229	130	TRICHLOROETHENE				BDL	
217	63	1,2-DICHLOROPROPANE				BDL	
212	83	BROMODICHLOROMETHANE				BDL	
218	75	CIS-1,3-DICHLOROPROPENE				BDL	
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	
228	97	1,1,2-TRICHLOROETHANE				BDL	
224	164	TETRACHLOROETHENE				BDL	
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	
207	112	CHLOROBENZENE				BDL	
219	106	ETHYLBENZENE				BDL	
330	106	M, P-XYLENE				BDL	
239	106	O-XYLENE				BDL	
251	104	STYRENE				BDL	
205	173	BROMOFORM				BDL	
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	
258	65 S	D4-1,2-DICHLOROETHANE WE#97			49.2	98. %	
247	95 S	BROMOFLUOROBENZENE			50.2	100. %	
233	98 B	DS-TOLUENE WE#59			50.0	100. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY SDW/ame
(QC/MS DATA REVIEWER)DATE 11-17-89

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	
CHECKSUMS:							
		3979.	2088	653500.	302.4		301.

CORRECTED/REVIEWED BY SDWagner
(QC/MS DATA REVIEWER)DATE 11-17-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	49.2	50.0	98.	76-114	X	
41	247	BROMOFLUOROBENZENE	50.2	50.0	100.	86-115	X	
42	233	D8-TOLUENE WE#59	50.0	50.0	100.	88-110	X	

* ADVISORY SURROGATE ONLY

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

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{5000. \text{ (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION B

CORRECTED/REVIEWED BY SDWagner
 (GC/MS DATA REVIEWER)

DATE 11-17-89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKGS

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: VBLKGS
 Sample wt/vol: _____ (g/mL) ML Lab File ID: CC891115A12
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column: (pack/cap) CAP Dilution Factor: 1

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKGS

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
Matrix: (soil/water) WATER Lab Sample ID: VBLKGS
Sample wt/vol: _____ (g/mL) ML Lab File ID: CC891115A12
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 11/15/89
Column (pack/cap) CAP Dilution Factor: 1

Number TICs found: 0

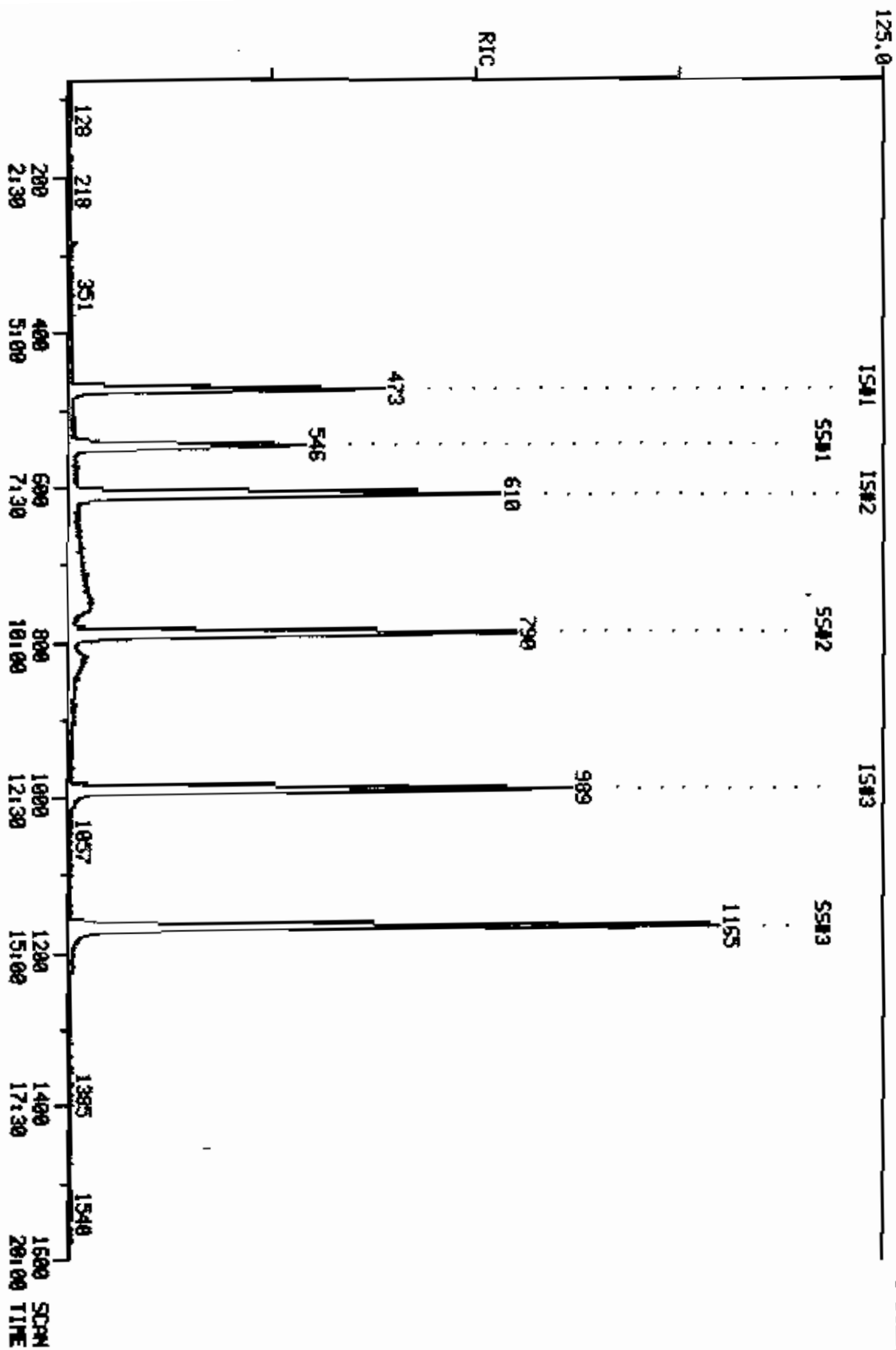
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

RIC
11/13/89 15:34:00
SAMPLE: SWL EPA 10M/BULKOS (BLANK) ON #12
COND5.:

COMPUCHER LABS
COMPUCHER DATA: 0089115A12 SCANS 75 TO 1600

179528.



QUANTITATION REPORT FILE: CCB91115A12
 DATA: CCB91115A12.T1
 11/19/89 15:34:00
 SAMPLE: 5ML EPA ID#VBLKGB (BLANK) ON #12
 CONDS.:
 SUBMITTED BY: 12 ANALYST: 1336

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

- NO NAME
- 1 *234 BROMOCHLOROMETHANE (18) <75-97-9> WE#1
- 2 221 CHLOROMETHANE <74-87-3> WE#2
- 3 231 VINYL CHLORIDE <75-01-4> WE#3
- 4 220 BROMOMETHANE <78-83-9> WE#4
- 5 209 CHLOROETHANE <75-00-3> WE#5
- 6 216 1,1-DICHLOROETHENE <75-35-4> WE#8
- 7 254 CARBON DISULFIDE <75-15-0> WE#9
- 8 252 ACETONE (2-PROPANONE) <67-64-1> WE#13
- 9 *248 1,4-DIFLUOROBENZENE (18) <340-36-3> WE#14
- 10 222 METHYLENE CHLORIDE <75-09-2> WE#16
- 11 226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
- 12 214 1,1-DICHLOROETHANE <75-34-3> WE#19
- 13 257 VINYL ACETATE <108-05-4> WE#20
- 14 237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
- 15 253 2-BUTANONE <78-93-3> WE#22
- 16 211 CHLOROFORM <67-66-2> WE#23
- 17 227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
- 18 206 CARBON TETRACHLORIDE <56-23-5> WE#25
- 19 203 BENZENE <71-43-2> WE#26
- 20 215 1,2-DICHLOROETHANE <107-06-2> WE#27
- 21 *270 D5-CHLOROBENZENE (18) <XXX-XX-X> WE#29
- 22 229 TRICHLOROETHENE <79-01-6> WE#30
- 23 217 1,2-DICHLOROPROPANE <78-87-5> WE#31
- 24 212 BROMODICHLOROMETHANE <75-27-4> WE#33
- 25 218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
- 26 256 4-METHYL-2-PENTANONE <108-01-1> WE#36
- 27 225 TOLUENE <108-88-3> WE#37
- 28 250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
- 29 228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
- 30 224 TETRACHLOROETHENE <127-18-4> WE#41
- 31 255 2-HEXANONE <591-78-6> WE#42
- 32 208 DIBROMOCHLOROMETHANE , 124-48-1> WE#43
- 33 207 CHLOROBENZENE <108-90-7> WE#45
- 34 219 ETHYLBENZENE <100-41-4> WE#47
- 35 330 M,P-XYLENE <133-02-7> WE#48
- 36 239 O-XYLENE <133-02-7> WE#49
- 37 251 STYRENE <100-42-5> WE#50
- 38 205 BROMOFORM <75-25-2> WE#51
- 39 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
- 40 *258 D4-1,2-DICHLOROETHANE WE#57
- 41 *247 BROMOFLUOROBENZENE <460-00-4> WE#58
- 42 *233 D8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	XTOT
1	128	473	5:55	1	1.000	A 88	69371.	50.000 UG/L	16.68
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	241	3:01	1	0.510	A*BB	330.	1.686 UG/L	0.56ND
9	114	610	7:37	9	1.000	A BB	283270.	50.000 UG/L	16.68
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	989	12:22	21	1.000	A BB	240814.	50.000 UG/L	16.68
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	755	9:26	21	0.763	A VV	2405.	2.610 UG/L	0.87ND
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	918	11:28	21	0.928	A*BB	631.	1.245 UG/L	0.42ND
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	546	6:49	1	1.154	A BB	152734.	49.701 UG/L	16.58
41	95	1165	14:34	21	1.178	A BB	216911.	47.136 UG/L	15.72
42	98	789	9:52	21	0.798	A BB	295052.	47.438 UG/L	15.82

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	3:58	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:05		10.000			50.00		0.456	
3	1:10		10.000			50.00		0.783	
4	1:28		10.000			50.00		1.114	
5	1:39		10.000			50.00		0.524	
6	2:41		5.000			50.00		1.197	
7	2:49		5.000			50.00		2.815	
8	3:01	1.00	10.000	0.05	1.69	50.00	0.005	0.141	0.03
9	7:40	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	3:36		5.000			50.00		1.197	
11	3:59		5.000			50.00		1.294	
12	4:40		5.000			50.00		1.925	
13	4:58		10.000			50.00		0.347	
14	5:37		5.000			50.00		1.476	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	5:49		10.000			50.00		0.092	
16	6:13		5.000			50.00		2.770	
17	6:16		5.000			50.00		0.716	
18	6:29		5.000			50.00		0.627	
19	6:51		5.000			50.00		0.761	
20	6:59		5.000			50.00		2.078	
21	12:26	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	7:36		5.000			50.00		0.428	
23	8:18		5.000			50.00		0.317	
24	8:52		5.000			50.00		0.826	
25	9:35		5.000			50.00		0.861	
26	9:31	0.99	15.000	0.05	2.61	50.00	0.009	0.177	0.05
27	10:01		5.000			50.00		0.707	
28	10:37		5.000			50.00		0.324	
29	10:54		5.000			50.00		0.327	
30	10:53		5.000			50.00		0.460	
31	11:31	1.00	15.000	0.06	1.24	50.00	0.002	0.097	0.02
32	11:32		5.000			50.00		0.442	
33	12:29		5.000			50.00		0.892	
34	12:46		5.000			50.00		0.421	
35	12:59		5.000			50.00		0.615	
36	13:40		5.000			50.00		0.555	
37	13:44		5.000			50.00		0.872	
38	14:00		5.000			50.00		0.328	
39	15:08		5.000			50.00		0.474	
40	6:52	0.99	5.000	0.23	49.70	50.00	2.202	2.215	0.99
41	14:38	0.99	5.000	0.24	47.14	50.00	0.832	0.882	0.94
42	9:55	0.99	5.000	0.16	47.44	50.00	1.131	1.192	0.95

COMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	473	69400	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	9
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			4.7	BDL 20	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	610	283000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROBENZENE (IS)	989	261000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE			2.8	BDL 30	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE			1.2	BDL 10	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 8	D4-1,2-DICHLOROETHANE WE#57			49.7	99. %	
247	95 9	BROMOFLUOROBENZENE			47.1	94. %	
233	98 5	D8-TOLUENE WE#59			47.4	95. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY EDWAGNER
(GC/MS DATA REVIEWER)DATE 11-17-89

MP	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:							
		0979.	2072	613400.	299.7		294.

CORRECTED/REVIEWED BY SDWagon
(QC/MS DATA REVIEWER)DATE 11-17-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	298	D4-1,2-DICHLOROETHANE WE#57	49.7	50.0	99.	76-114	X	
41	247	BROMOFLUOROBENZENE	47.1	50.0	94.	86-113	X	
42	233	D8-TOLUENE WE#59	47.4	50.0	95.	88-110	X	

* ADVISORY SURROGATE ONLY

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

CORRECTION FACTOR CALCULATION:

5000 UL

VOLUME OF SAMPLE PURGED (UL)

5000 UL

5.000 ML

= 1.00 =

5000. (UL)-----
5.000 (ML)

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

THE SURROGATES ARE ADDED TO THE SAMPLE PRIOR TO SPARGING.

SURROGATE SPIKE CONVERSION FACTOR = 1.

VERSION BCORRECTED/REVIEWED BY EDW Jones
(GC/MS DATA REVIEWER)DATE 11-17-89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKDG

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: VBLKDG
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CC891116C18
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKDG

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
Matrix: (soil/water) WATER Lab Sample ID: VBLKDG
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CC891116C18
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 11/16/89
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

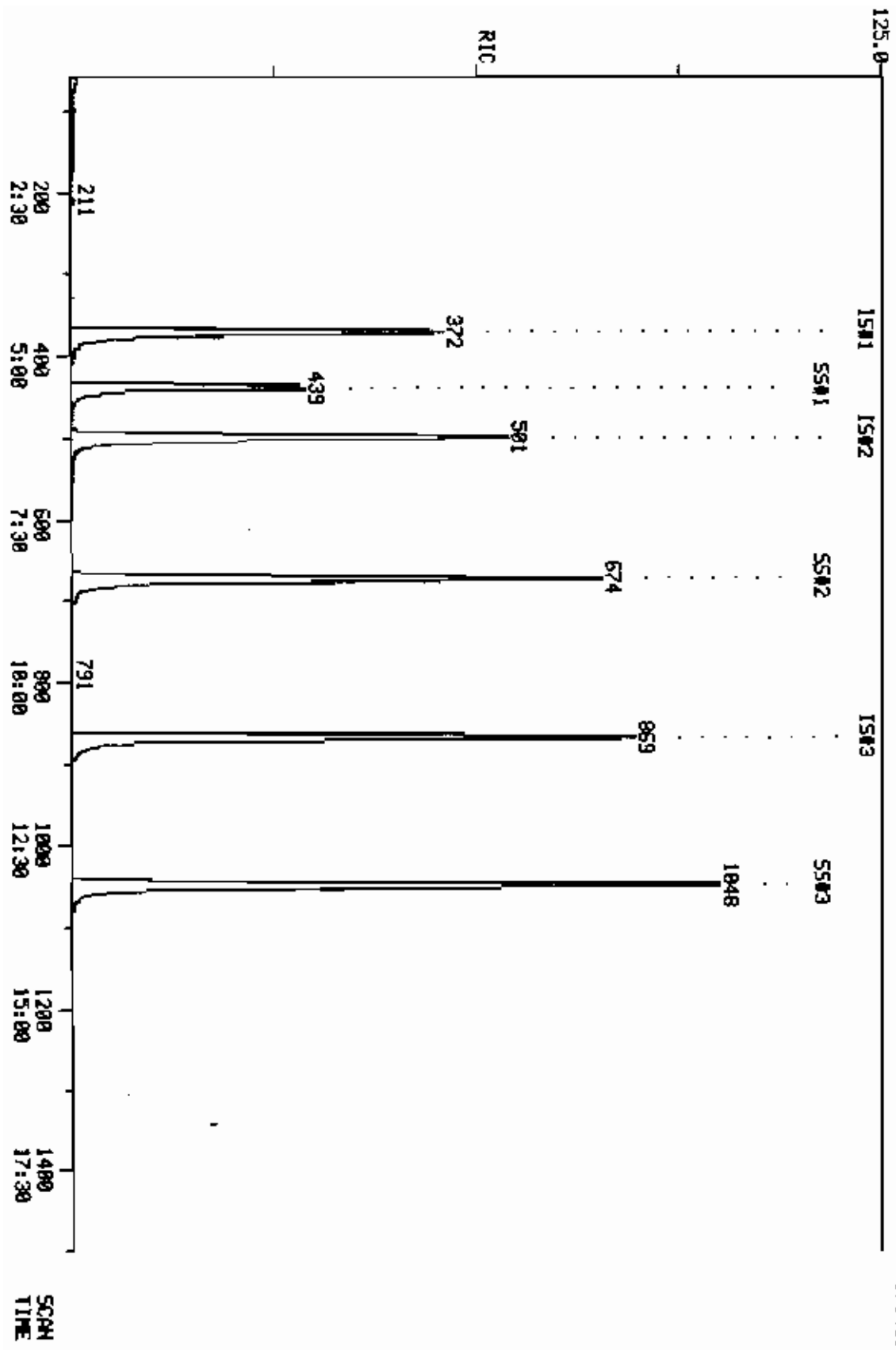
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

RIC
11/16/89 21:06:00
SAMPLE: SML EPA UBLK DG DMN18
COND5.:

COMPUCHEN LABS
COMPUCHEN DATA: CC891116C18 SCANS 59 TO 1500

87840.



QUANTITATION REPORT FILE: CCB91116C1B
 DATA: CCB91116C1B.T1
 11/16/89 2:06:00
 SAMPLE: 5ML EPA VBLK D6 ON#1B
 CONDS.:
 SUBMITTED BY: 18 ANALYST: 1422

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

NO	NAME
1	*234 BROMOCHLORMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-03-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-13-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-39-2> WE#21
15	233 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLORMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	236 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	230 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	235 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLORMETHANE , 124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-3> WE#54
40	*238 D4-1,2-DICHLOROETHANE WE#57
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	*233 D8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REP	RRT	METH	AREA(HQHT)	AMOUNT	XTOT
1	128	372	4:39	1	1.000	A BV	43729.	30.000 UG/L	16.93
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	NOT FOUND							
9	114	501	6:16	9	1.000	A BB	159813.	50.000 UG/L	16.93
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	869	10:52	21	1.000	A BB	146106.	50.000 UG/L	16.93
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	439	5:29	1	1.180	A BB	68023.	47.025 UG/L	15.92
41	95	1048	13:06	21	1.206	A BB	88595.	46.612 UG/L	15.78
42	98	674	8:25	21	0.776	A BB	151426.	51.736 UG/L	17.52

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:43	0.98	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51		10.000			50.00		0.690	
3	0:58		10.000			50.00		0.593	
4	1:10		10.000			50.00		1.011	
5	1:14		10.000			50.00		0.577	
6	1:59		5.000			50.00		1.283	
7	2:07		5.000			50.00		2.964	
8	2:13		10.000			50.00		0.478	
9	6:19	0.99	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	2:42		5.000			50.00		1.330	
11	3:01		5.000			50.00		1.246	
12	3:36		5.000			50.00		2.057	
13	3:52		10.000			50.00		0.514	
14	4:25		5.000			50.00		1.428	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	4:37		10.000			50.00		0.098	
16	4:58		5.000			50.00		2.570	
17	5:00		5.000			50.00		0.569	
18	5:11		5.000			50.00		0.599	
19	5:31		5.000			50.00		0.768	
20	5:40		5.000			50.00		1.800	
21	10:54	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	6:34		5.000			50.00		0.460	
23	6:55		5.000			50.00		0.306	
24	7:28		5.000			50.00		0.566	
25	8:10		5.000			50.00		0.494	
26	8:36		15.000			50.00		0.345	
27	8:34		5.000			50.00		0.637	
28	9:11		5.000			50.00		0.233	
29	9:27		5.000			50.00		0.325	
30	9:25		5.000			50.00		0.485	
31	10:03		15.000			50.00		0.223	
32	10:01		5.000			50.00		0.584	
33	10:57		5.000			50.00		1.001	
34	11:14		5.000			50.00		0.432	
35	11:28		5.000			50.00		0.744	
36	12:09		5.000			50.00		0.653	
37	12:14		5.000			50.00		1.100	
38	12:29		5.000			50.00		0.429	
39	13:42		5.000			50.00		0.483	
40	5:33	0.99	5.000	0.24	47.03	50.00	1.556	1.654	0.94
41	13:07	1.00	5.000	0.24	46.61	50.00	0.606	0.650	0.93
42	8:29	0.99	5.000	0.16	51.74	50.00	1.036	1.002	1.03


CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	372	43700	50.0		
221	30	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)				BDL	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	301	160000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROENZENE (IS)	869	146000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	73	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE , 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			47.0	94. %	
247	95 S	BROMOFLUOROBENZENE			46.6	93. %	
233	98 S	D8-TOLUENE WE#59			51.7	103. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY *Ok*
(GC/MS DATA REVIEWER)

DATE 11-26-85

CHP				QUANT	REPORTED	DETECT.
#	M/E F	COMPOUND NAME	SCAN	REPORT	AMOUNT	LIMIT
				VALUE	(UG/L)	(UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)			BDL	5
CHECKSUMS:						
	3979.		1742	349700.	295.3	290.

CORRECTED/REVIEWED BY


(GC/MS DATA REVIEWER)

DATE

11-20-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	47.0	50.0	94.	76-114	X	
41	247	BROMOFLUOROBENZENE	46.6	50.0	93.	86-115	X	
42	233	D8-TOLUENE WE#59	51.7	50.0	103.	89-110	X	

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

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{5000. \text{ (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION 8

CORRECTED/REVIEWED BY D. Sted
 (GC/MS DATA REVIEWER)

DATE 11/19/89
 DRS
 11/20/89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKNP

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: VBLKNP
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CC891116A18
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 11/16/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	1	J
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKNP

Lab Name: COMPUCHEM LABS Contract: (2-89)-REVS
Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
Matrix: (soil/water) WATER Lab Sample ID: VBLKNP
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CC991116A18
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 11/15/89
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

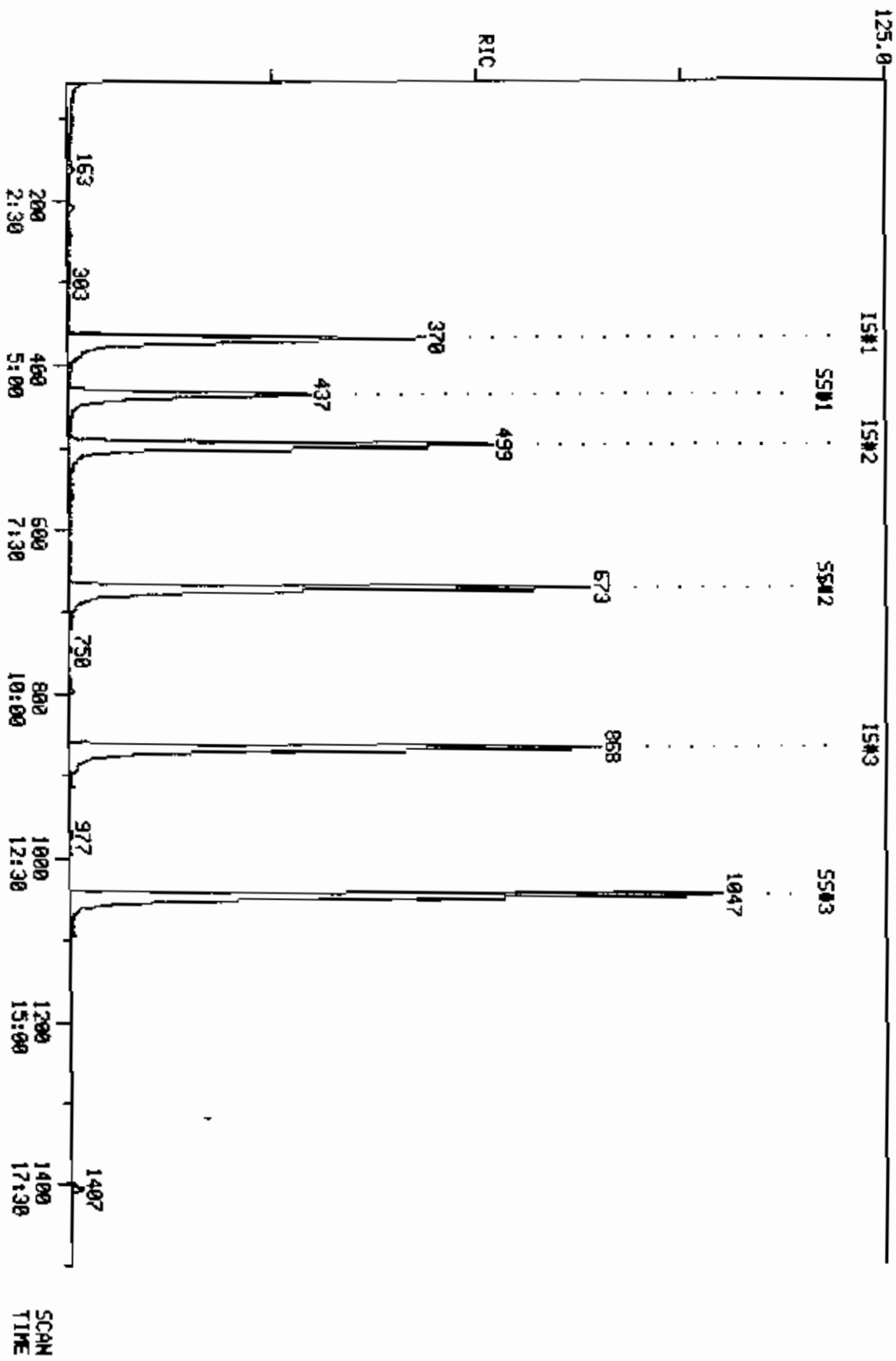
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
-----	-----	-----	-----	-----

COMPUchem LABS
COMPUchem DATA: CC89116A18 SCANS 56 TO 1500

RIC
11/16/89 15:14:00
SAMPLE: SNL EPR 100UBLK NP DN#18
COND5.1

85320.



QUANTITATION REPORT FILE: CCB91116A1B
 DATA: CCB91116A1B.TI
 11/16/89 15:14:00
 SAMPLE: 5ML EPA ID#V9LX NP ON#18
 CONDB.:
 SUBMITTED BY: 18 ANALYST: 1577

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-3> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <540-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-05-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-95-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 D5-CHLOROBENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-3> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	*233 D8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	369	4:37	1	1.000	A 88	41060.	50.000 UG/L	17.11
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	NOT FOUND							
7	76	NOT FOUND							
8	43	NOT FOUND							
9	114	499	6:14	9	1.000	A BB	149648.	50.000 UG/L	17.11
10	84	NOT FOUND							
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	NOT FOUND							
20	62	NOT FOUND							
21	117	868	10:51	21	1.000	A BB	138919.	50.000 UG/L	17.11
22	130	NOT FOUND							
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	NOT FOUND							
27	92	NOT FOUND							
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	NOT FOUND							
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	1093	13:40	21	1.259	A BB	1238.	1.016 UG/L	0.35
40	65	437	5:28	1	1.184	A BB	65027.	44.872 UG/L	15.35
41	95	1048	13:06	21	1.207	A BB	84839.	45.667 UG/L	15.62
42	98	673	8:25	21	0.775	A BB	143092.	50.775 UG/L	17.37

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	4:40	0.99	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	0:51		10.000			50.00		0.638	
3	0:57		10.000			50.00		0.600	
4	1:08		10.000			50.00		0.957	
5	1:13		10.000			50.00		0.573	
6	1:57		5.000			50.00		1.251	
7	2:04		5.000			50.00		3.119	
8	2:09		10.000			50.00		0.348	
9	6:16	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	2:38		5.000			50.00		1.309	
11	2:57		5.000			50.00		1.203	
12	3:32		5.000			50.00		1.928	
13	3:48		10.000			50.00		0.497	
14	4:21		5.000			50.00		1.487	

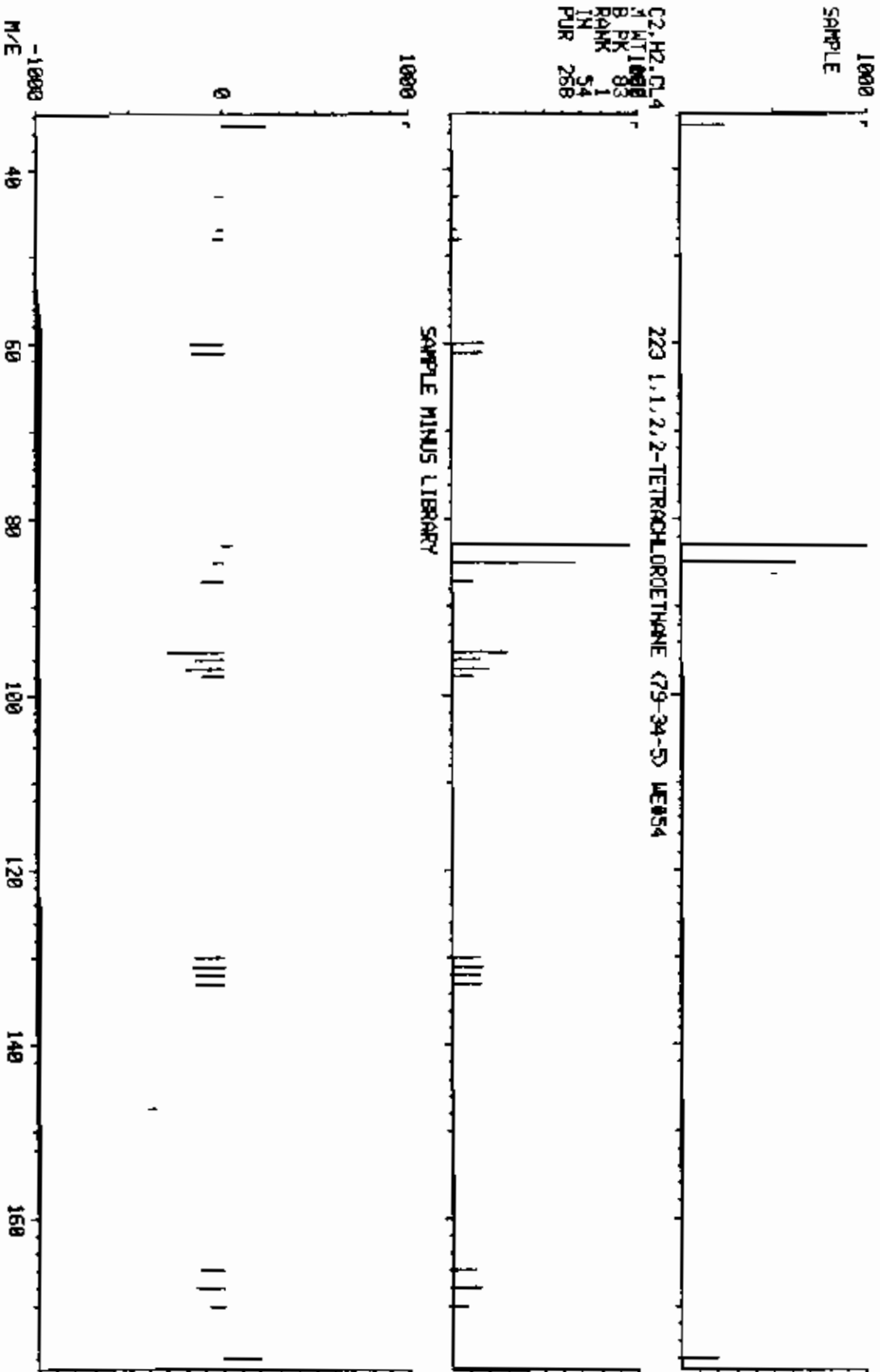
NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	4:31		10.000			50.00		0.096	
16	4:54		5.000			50.00		2.453	
17	4:56		5.000			50.00		0.548	
18	5:08		5.000			50.00		0.567	
19	5:28		5.000			50.00		0.728	
20	5:37		5.000			50.00		1.733	
21	10:52	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	6:30		5.000			50.00		0.437	
23	6:51		5.000			50.00		0.295	
24	7:25		5.000			50.00		0.535	
25	8:08		5.000			50.00		0.471	
26	8:33		15.000			50.00		0.332	
27	8:32		5.000			50.00		0.602	
28	9:09		5.000			50.00		0.217	
29	9:24		5.000			50.00		0.302	
30	9:22		5.000			50.00		0.502	
31	10:01		15.000			50.00		0.192	
32	9:58		5.000			50.00		0.556	
33	10:55		5.000			50.00		0.940	
34	11:13		5.000			50.00		0.402	
35	11:27		5.000			50.00		0.700	
36	12:07		5.000			50.00		0.640	
37	12:12		5.000			50.00		1.073	
38	12:28		5.000			50.00		0.411	
39	13:41	1.00	5.000	0.25	1.02	50.00	0.009	0.439	0.02
40	5:29	1.00	5.000	0.24	44.87	50.00	1.584	1.763	0.90
41	13:07	1.00	5.000	0.24	45.67	50.00	0.611	0.669	0.91
42	8:26	1.00	5.000	0.16	50.77	50.00	1.030	1.014	1.02

LIBRARY SEARCH
11/16/89 15:14:00 + 13:40
SAMPLE: 5M1 EPA 10MVBULK HP 0M#18
ENHANCED (5 15B 2M 0T)

COMPUCHEM LABS

DATA: C0891116R18 #1093

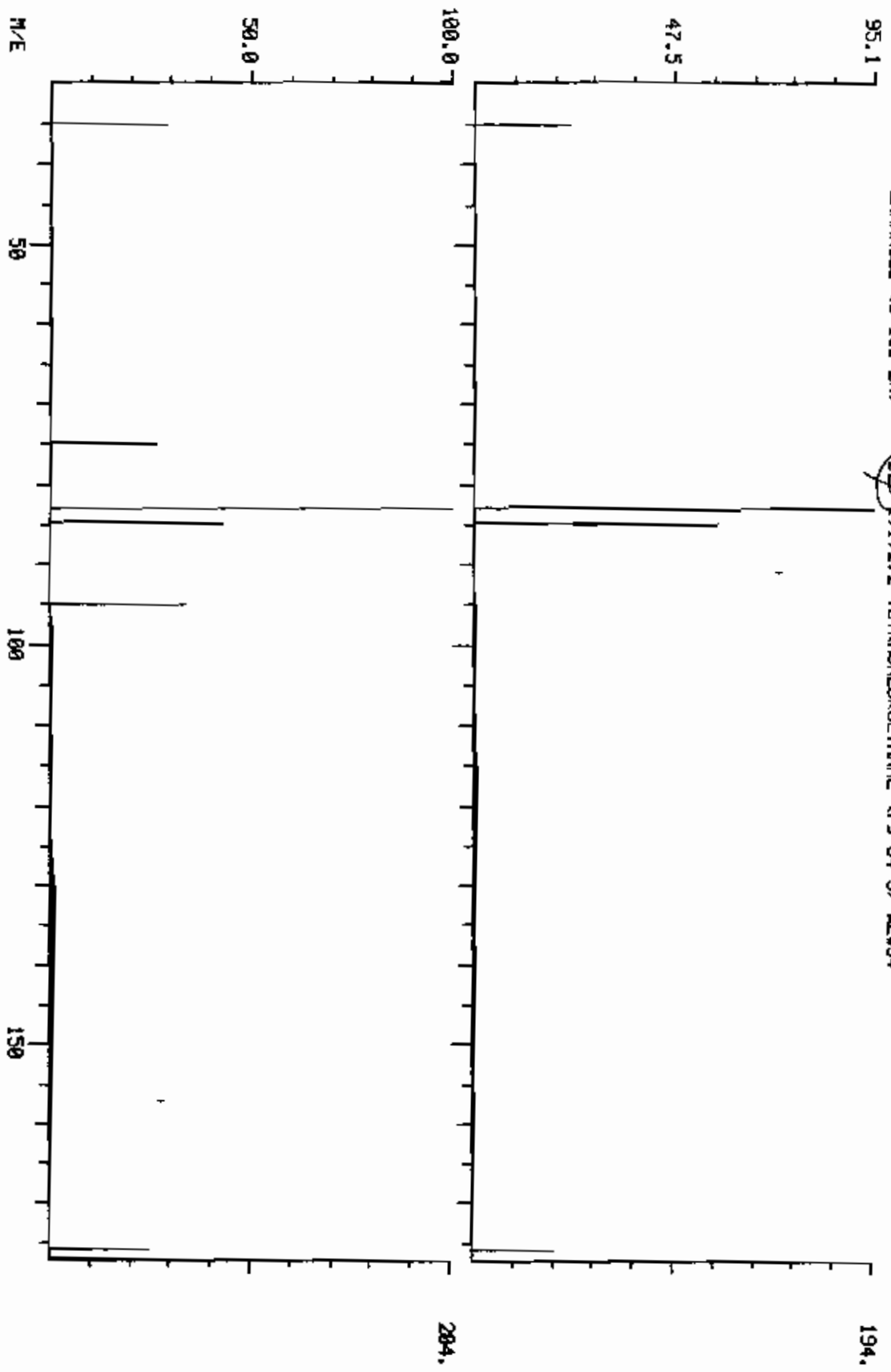
BASE M/E: 83
RIC: 396.



DUAL MASS SPECTRUM
11/16/89 15:14:00 + 13:40 J
SAMPLE: SML EPA IDUUBLK NO. 04#18
ENHANCED (S 159 2M) (22) 1,1,2,2-TETRACHLOROETHANE (79-34-5) MW54

COMPUCHEM LABS

DATA: CC891116A18 #1093 BASE M/E: 83
RIC: 396.7 521.



CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPRPT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 I	BROMOCHLOROMETHANE (IS)	369	41000	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLORDETHANE				BDL	10
216	96	1,1-DICHLOROETHENE				BDL	5
254	76	CARSON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)				BDL	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	499	150000	50.0		
222	84	METHYLENE CHLORIDE				BDL	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE				BDL	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 I	D5-CHLOROENZENE (IS)	868	139000	50.0		
229	130	TRICHLOROETHENE				BDL	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE				BDL	10
225	92	TOLUENE				BDL	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
225	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
259	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	5
207	112	CHLOROBENZENE				BDL	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 B	D4-1,2-DICHLOROETHANE WE#57			44.9	90. %	
247	95 S	BROMOFLUOROBENZENE			45.7	91. %	
233	98 B	D8-TOLUENE WE#59			50.8	102. %	
259	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY *O. Staley*
(GC/MS DATA REVIEWER)

DATE 11/17/89

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
299	96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:							
		3979.	1736	330000.	292.4	294.	

CORRECTED/REVIEWED BY *Out...*
(GC/MS DATA REVIEWER)

DATE 11-17-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	238	D4-1,2-DICHLOROETHANE WE#57	44.9	50.0	90.	76-114	X	
41	247	BROMOFLUOROBENZENE	45.7	50.0	91.	86-115	X	
42	233	D8-TOLUENE WE#59	50.8	50.0	102.	88-110	X	

* ADVISORY SURROGATE ONLY

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

=====

CORRECTION FACTOR CALCULATION:

5000 UL
 ----- =
 VOLUME OF SAMPLE PURGED (UL)

5000 UL
 ----- = 1.00 = -----
 5000. (UL) 5.000 (ML)

=====

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

=====

VERSION B

CORRECTED/REVIEWED BY *Opel + Smith*
 (GC/MS DATA REVIEWER)

DATE 11-17-85

(3) Matrix Spike Data

- (a) Tabulated results (Form I VOA) of nonspiked TCL compounds.
Form I VOA - TIC not required.
- (b) Reconstructed ion chromatogram (a) and quantitation
report (a) or legible facsimile (GC/MS). Spectra not
required.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-10MS

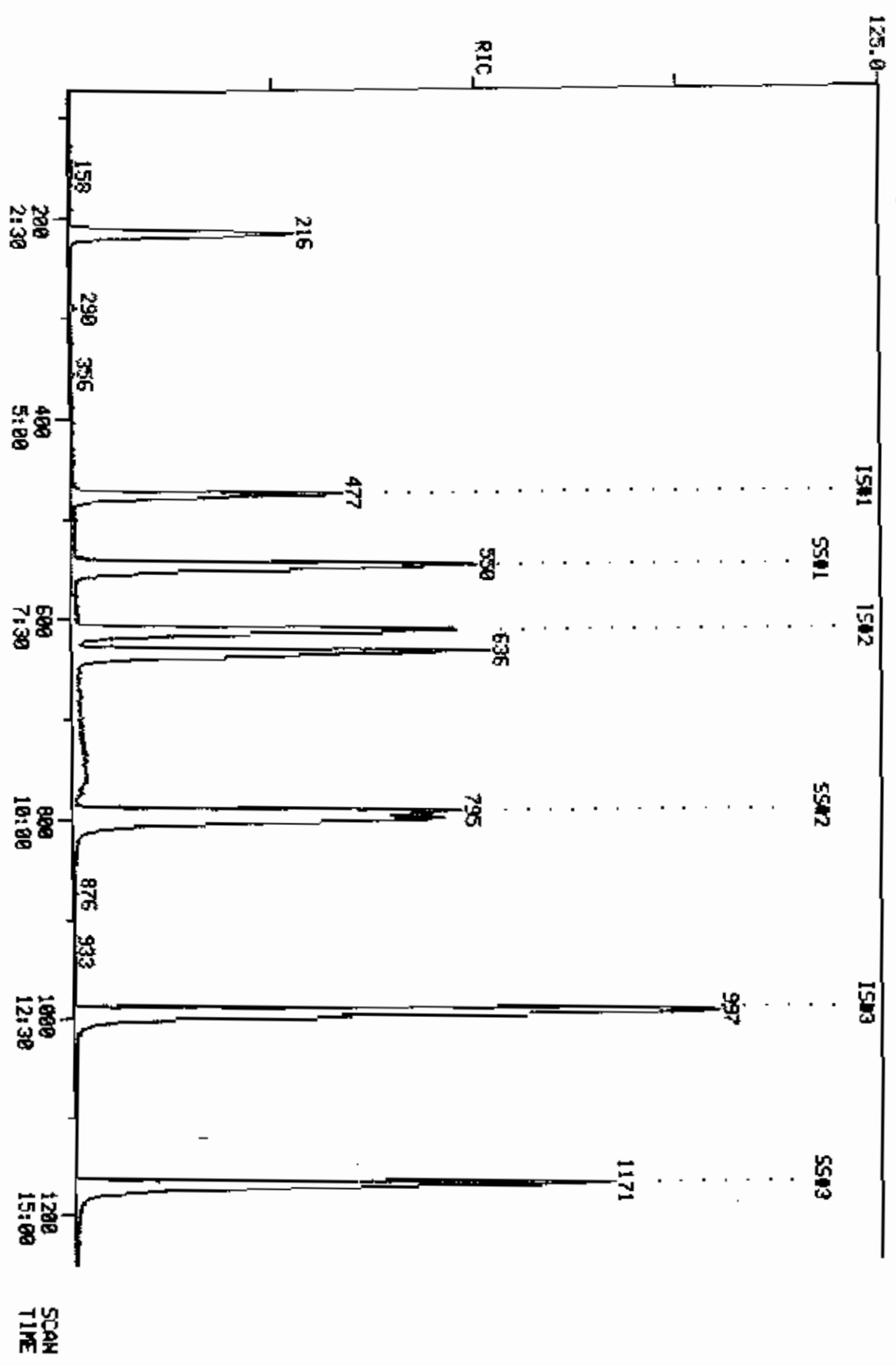
Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 30192J
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN00192JB12
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	2	J
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	5	U
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	10	U
75-27-4	-----Bromodichloromethane	5	U
78-87-5	-----1,2-Dichloropropane	5	U
10061-01-5	-----cis-1,3-Dichloropropene	5	U
79-01-6	-----Trichloroethene	5	U
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	5	U
71-43-2	-----Benzene	5	U
10061-02-6	-----Trans-1,3-Dichloropropene	5	U
75-25-2	-----Bromoform	5	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5	U
108-88-3	-----Toluene	5	U
108-90-7	-----Chlorobenzene	5	U
100-41-4	-----Ethylbenzene	5	U
100-42-5	-----Styrene	5	U
1330-20-7	-----Total Xylenes	5	U

FORM I VOA

1/87 Rev.

RIC
 11/15/89 20:31:00
 SAMPLE: 5 ML CCM 301923 ID# 738001-10 MS CSM 19410 ON 12
 COND5.:
 COMPUTER LABS
 COMPUTER DATA: 0801923B12 SCANS 73 TO 1250
 227200.



QUANTITATION REPORT FILE: CNO01923B12 /
 DATA: CNO01923B12.TI
 11/15/89 20:31:00
 SAMPLE: 5 ML CC# 301923 ID# 736001-10 MS/CS# 18410 ON 12
 CONDS.:
 SUBMITTED BY: 12 ANALYST: 1457

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

- | NO | NAME |
|----|--|
| 1 | *234 BROMOCHLOROMETHANE (18) <75-97-5> WE#1 |
| 2 | 221 CHLOROMETHANE <74-87-3> WE#2 |
| 3 | 231 VINYL CHLORIDE <75-01-4> WE#3 |
| 4 | 220 BROMOMETHANE <78-83-9> WE#4 |
| 5 | 209 CHLOROETHANE <75-00-3> WE#5 |
| 6 | 216 1,1-DICHLOROETHENE <75-35-4> WE#8 |
| 7 | 254 CARBON DISULFIDE <75-15-0> WE#9 |
| 8 | 252 ACETONE (2-PROPANONE) <67-64-1> WE#13 |
| 9 | *248 1,4-DIFLUOROBENZENE (15) <540-34-3> WE#14 |
| 10 | 222 METHYLENE CHLORIDE <75-09-2> WE#16 |
| 11 | 226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17 |
| 12 | 214 1,1-DICHLOROETHANE <75-34-3> WE#19 |
| 13 | 257 VINYL ACETATE <108-05-4> WE#20 |
| 14 | 237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21 |
| 15 | 253 2-BUTANONE <78-93-3> WE#22 |
| 16 | 211 CHLOROFORM <67-66-2> WE#23 |
| 17 | 227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24 |
| 18 | 206 CARBON TETRACHLORIDE <54-23-5> WE#25 |
| 19 | 203 BENZENE <71-43-2> WE#26 |
| 20 | 215 1,2-DICHLOROETHANE <107-06-2> WE#27 |
| 21 | *270 D5-CHLOROBENZENE (19) <XXX-XX-X> WE#29 |
| 22 | 229 TRICHLOROETHENE <79-01-6> WE#30 |
| 23 | 217 1,2-DICHLOROPROPANE <78-87-5> WE#31 |
| 24 | 212 BROMODICHLOROMETHANE <75-27-4> WE#33 |
| 25 | 218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35 |
| 26 | 256 4-METHYL-2-PENTANONE <108-01-1> WE#36 |
| 27 | 225 TOLUENE <108-88-3> WE#37 |
| 28 | 250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38 |
| 29 | 228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39 |
| 30 | 224 TETRACHLOROETHENE <127-18-4> WE#41 |
| 31 | 255 2-HEXANONE <591-78-6> WE#42 |
| 32 | 208 DIBROMOCHLOROMETHANE . 124-48-1> WE#43 |
| 33 | 207 CHLOROBENZENE <108-90-7> WE#45 |
| 34 | 219 ETHYLBENZENE <100-41-4> WE#47 |
| 35 | 330 M,P-XYLENE <133-02-7> WE#48 |
| 36 | 239 O-XYLENE <133-02-7> WE#49 |
| 37 | 251 STYRENE <100-42-5> WE#50 |
| 38 | 205 BROMOFORM <75-25-2> WE#51 |
| 39 | 223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54 |
| 40 | *258 D4-1,2-DICHLOROETHANE WE#57 |
| 41 | *247 BROMOFLUOROBENZENE <460-00-4> WE#58 |
| 42 | *233 D8-TOLUENE WE#59 |

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGHT)	AMOUNT	XTOT
1	128	477	5:58	1	1.000	A BB	77610.	90.000 UG/L	9.93
2	50	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	216	2:42	1	0.453	A BB	103634.	55.760 UG/L	9.96 <i>yes</i>
7	76	NOT FOUND							
8	43	247	3:05	1	0.518	A*BB	1340.	6.119 UG/L	1.09 <i>NO</i>
9	114	615	7:41	9	1.000	A BB	322937.	50.000 UG/L	8.93
10	84	290	3:37	1	0.608	A BB	3028.	1.630 UG/L	0.29 <i>yes</i>
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	548	6:51	9	0.891	A BB	244163.	49.648 UG/L	8.87 <i>yes</i>
20	62	NOT FOUND							
21	117	994	12:25	21	1.000	A BB	281315.	50.000 UG/L	8.93
22	130	636	7:57	9	1.034	A BB	142995.	51.679 UG/L	9.23 <i>yes</i>
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	761	9:31	21	0.766	A BB	8902.	8.956 UG/L	1.60 <i>NO</i>
27	92	803	10:02	21	0.808	A BB	187127.	47.042 UG/L	8.40 <i>yes</i>
28	75	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	998	12:28	21	1.004	A BB	248114.	49.443 UG/L	8.83 <i>yes</i>
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	551	6:53	1	1.155	A BB	165051.	48.007 UG/L	8.57
41	95	1171	14:38	21	1.178	A BB	222765.	44.880 UG/L	8.02
42	98	794	9:55	21	0.799	A BB	313659.	46.754 UG/L	8.35

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	5:38	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:05		10.000			50.00		0.456	
3	1:10		10.000			50.00		0.783	
4	1:28		10.000			50.00		1.114	
5	1:39		10.000			50.00		0.524	
6	2:41	1.00	5.000	0.09	55.76	50.00	1.335	1.197	1.12
7	2:49		5.000			50.00		2.815	
8	3:01	1.02	10.000	0.05	6.12	50.00	0.017	0.141	0.12
9	7:40	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	3:36	1.01	5.000	0.12	1.63	50.00	0.039	1.197	0.03
11	3:59		5.000			50.00		1.254	
12	4:40		5.000			50.00		1.925	
13	4:58		10.000			50.00		0.347	
14	5:37		5.000			50.00		1.496	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	5:49		10.000			50.00		0.092	
16	6:13		5.000			50.00		2.770	
17	6:16		5.000			50.00		0.716	
18	6:29		5.000			50.00		0.627	
19	6:51	1.00	5.000	0.18	49.65	50.00	0.756	0.761	0.99
20	6:59		5.000			50.00		2.078	
21	12:26	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	7:56	1.00	5.000	0.21	51.68	50.00	0.443	0.428	1.03
23	8:18		5.000			50.00		0.317	
24	8:52		5.000			50.00		0.826	
25	9:39		5.000			50.00		0.861	
26	9:31	1.00	15.000	0.09	8.96	50.00	0.032	0.177	0.18
27	10:01	1.00	5.000	0.16	47.04	50.00	0.665	0.707	0.94
28	10:37		5.000			50.00		0.324	
29	10:54		5.000			50.00		0.327	
30	10:53		5.000			50.00		0.460	
31	11:31		15.000			50.00		0.097	
32	11:32		5.000			50.00		0.442	
33	12:29	1.00	5.000	0.20	49.44	50.00	0.882	0.892	0.99
34	12:46		5.000			50.00		0.421	
35	12:59		5.000			50.00		0.615	
36	13:40		5.000			50.00		0.555	
37	13:44		5.000			50.00		0.872	
38	14:00		5.000			50.00		0.328	
39	15:09		5.000			50.00		0.474	
40	6:52	1.00	5.000	0.23	48.01	50.00	2.127	2.215	0.96
41	14:38	1.00	5.000	0.24	44.88	50.00	0.792	0.882	0.90
42	9:55	1.00	5.000	0.16	46.75	50.00	1.115	1.192	0.94

LAB INSTRUCTIONS:

RECEVOA DATE
GC/MS WORKSHEET

CASE#: 18410
COMPUCHEM#: 301923

OJC] J3C] DI] (:1)
J2C] J4C] O2C] (:1)

GC/MS; VOA; WATER; EPA 504 2/89

QC

Sample Prep Code---000
Instrument Code---412
Compound List-----493
Surrogate Std-----194
Internal Std-----036

T39001-10 MS

SAMPLE ID: SS 717/540

GC/MS ANALYSIS

Amount Purged: [] 5mls or [] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added 5 ul
Surrogate Standard Volume Added 5 ul
BFB Filename BS91115A12 Disk (102B)
Blank Filename CC 102B115A12 Disk ()
Standard Filename CS91115A12 Disk ()
Sample Filename CN001923B12 Disk ()

RECEIVED
NOV 17 1989
Work-up SL Napan

ANALYST(S): Injection ALG 11/17/89

GC/MS REVIEW

CONDITION CODE

OK

Entry Codes OK, J6, SM, SL, SH, JA, DA

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

Disposition: [] Complete
[] Reinject Neat
[] Dilute (:1)

Extraneous Peak Search Results:
of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required _____

COMMENTS:

orig 301938

GC/MS Review Southern Date 11/17/89 Auditor _____ Date ___/___/___

REPORT INTEGRATION

Final Reportable Package(s): CN - B12 / _____ Total # of Injections: 1

QA COMMENTS:

Initials _____ Date ___/___/___

FINAL REVIEW:

Initials _____ Date ___/___/___

AC1004 (03/89)

CMP #	M/E	F	COMPOUND NAME	SCAN	AREA	QUANT	REPORTED	DETECT.
						REPORT VALUE	AMOUNT (UG/L)	LIMIT (UG/L)
234	128	I	BROMOCHLOROMETHANE (IS)	477	77600	50.0		
221	50		CHLOROMETHANE				BDL	10
231	62		VINYL CHLORIDE				BDL	10
220	94		BROMOMETHANE				BDL	10
209	64		CHLOROETHANE				BDL	10
216	96		1,1-DICHLOROETHENE			55.8	56	5
254	76		CARBON DISULFIDE				BDL	5
252	43		ACETONE (2-PROPANONE)			4.1	BDL	10
249	114	I	1,4-DIFLUOROBENZENE (IS)	615	323000	50.0		
222	84		METHYLENE CHLORIDE			1.6	2J	5
226	96		TRANS-1,2-DICHLOROETHENE				BDL	5
214	63		1,1-DICHLOROETHANE				BDL	5
257	43		VINYL ACETATE				BDL	10
237	96		CIS-1,2-DICHLOROETHENE				BDL	5
253	72		2-BUTANONE				BDL	10
211	83		CHLOROFORM				BDL	5
227	97		1,1,1-TRICHLOROETHANE				BDL	5
206	117		CARBON TETRACHLORIDE				BDL	5
203	78		BENZENE			49.6	50	5
215	62		1,2-DICHLOROETHANE				BDL	5
270	117	I	D5-CHLOROBENZENE (IS)	994	281000	50.0		
229	130		TRICHLOROETHENE			51.7	52	5
217	63		1,2-DICHLOROPROPANE				BDL	5
212	83		BROMODICHLOROMETHANE				BDL	5
218	75		CIS-1,3-DICHLOROPROPENE				BDL	5
256	43		4-METHYL-2-PENTANONE			9.8	BDL	10
225	92		TOLUENE			47.0	47	5
250	75		TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97		1,1,2-TRICHLOROETHANE				BDL	5
224	164		TETRACHLOROETHENE				BDL	5
255	43		2-HEXANONE				BDL	10
208	129		DIBROMOCHLOROMETHANE, 124-4				BDL	5
207	112		CHLOROBENZENE			49.4	49	5
219	106		ETHYLBENZENE				BDL	5
300	106		M,P-XYLENE				BDL	5
239	106		O-XYLENE				BDL	5
251	104		STYRENE				BDL	5
205	173		BROMOFORM				BDL	5
223	83		1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65	S	D4-1,2-DICHLOROETHANE WE#57			48.0	96.%	
247	95	S	BROMOFLUOROBENZENE			44.9	90.%	
233	98	S	D8-TOLUENE WE#59			46.8	94.%	
289	106		XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY SDWaque
(GC/MS DATA REVIEWER)DATE 11-17-89

CMP				QUANT	REPORTED	DETECT.
• M/E P	COMPOUND NAME	SCAN	AREA	REPORT	AMOUNT	LIMIT
				VALUE	(UG/L)	(UG/L)
299 96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:						
	3979.	2086	681600.	559.9		551.

CORRECTED/REVIEWED BY SDW/que
(GC/MS DATA REVIEWER)DATE 11-17-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	48.0	50.0	96.	76-114	X	
41	247	BROMOFLUOROBENZENE	44.9	50.0	90.	86-115	X	
42	233	D8-TOLUENE WE#59	46.8	50.0	94.	88-110	X	

* ADVISORY SURROGATE ONLY

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

CORRECTION FACTOR CALCULATION:

$$\frac{5000 \text{ UL}}{5000. \text{ (UL)}} = 1.00 = \frac{5.000 \text{ ML}}{5.000 \text{ (ML)}}$$

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION B

CORRECTED/REVIEWED BY SDW Jones
(GC/MS DATA REVIEWER)

DATE 11-17-89

(4) Matrix Spike Duplicate Data

- (a) Tabulated results (Form I VOA) of nonspiked TCL compounds. Form I VOA - TIC not required.
- (b) Reconstructed ion chromatogram (s) and quantitation report (s) or legible facsimile (GC/MS). Spectra not required.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-10MSD

Lab Name: COMPUCHEM LABS Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 05
 Matrix: (soil/water) WATER Lab Sample ID: 301924
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN001924B12
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ Date Analyzed: 11/15/89
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA

1/87 Rev.

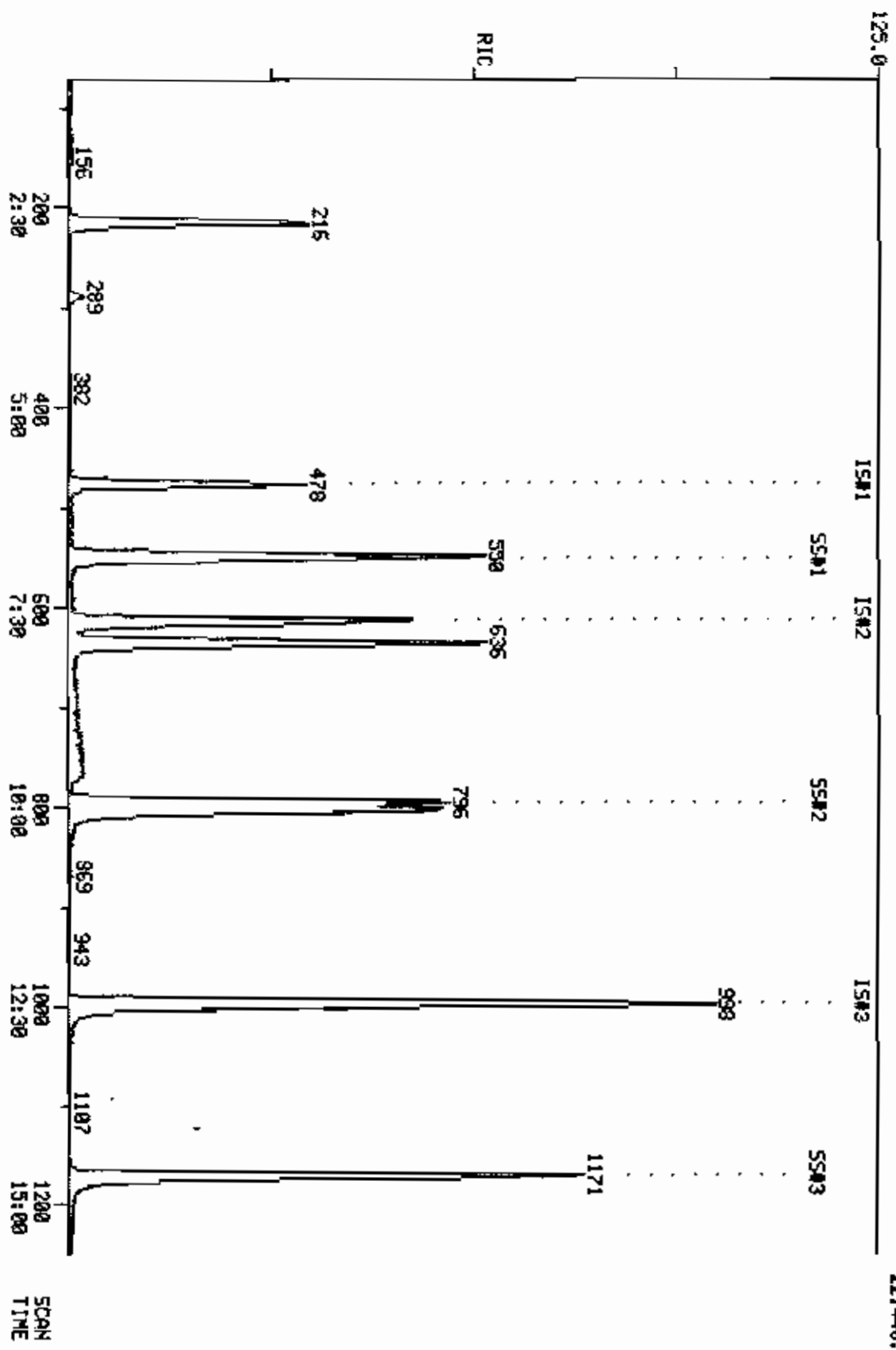
RIC
11/15/99 21:10:00

COMPUCHEN LABS

COMPUCHEN DATA: CH001924012 SCANS 72 TO 1250

SAMPLE: 5 ML CCM 301924 10# 738001-10 MSD CSM 10410 ON 12
COND.S.:

221440.



QUANTITATION REPORT FILE: CN001924B12 ✓
 DATA: CN001924B12.T1
 11/15/89 21:10:00
 SAMPLE: 5 ML CC# 301924 ✓ ID# 738001-10 MSD CS# 18410 ✓ ON 12
 COND# :
 SUBMITTED BY: 12 ANALYST: 1457

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

NO	NAME
1	*234 BROMOCHLOROMETHANE (IS) <75-97-5> WE#1
2	221 CHLOROMETHANE <74-87-3> WE#2
3	231 VINYL CHLORIDE <75-01-4> WE#3
4	220 BROMOMETHANE <78-83-9> WE#4
5	209 CHLOROETHANE <75-00-3> WE#5
6	216 1,1-DICHLOROETHENE <75-35-4> WE#8
7	254 CARBON DISULFIDE <75-15-0> WE#9
8	252 ACETONE (2-PROPANONE) <67-64-1> WE#13
9	*248 1,4-DIFLUOROBENZENE (IS) <340-36-3> WE#14
10	222 METHYLENE CHLORIDE <75-09-2> WE#16
11	226 TRANS-1,2-DICHLOROETHENE <156-60-5> WE#17
12	214 1,1-DICHLOROETHANE <75-34-3> WE#19
13	257 VINYL ACETATE <108-09-4> WE#20
14	237 CIS-1,2-DICHLOROETHENE <156-59-2> WE#21
15	253 2-BUTANONE <78-93-3> WE#22
16	211 CHLOROFORM <67-66-2> WE#23
17	227 1,1,1-TRICHLOROETHANE <71-55-6> WE#24
18	206 CARBON TETRACHLORIDE <56-23-5> WE#25
19	203 BENZENE <71-43-2> WE#26
20	215 1,2-DICHLOROETHANE <107-06-2> WE#27
21	*270 O5-CHLOROENZENE (IS) <XXX-XX-X> WE#29
22	229 TRICHLOROETHENE <79-01-6> WE#30
23	217 1,2-DICHLOROPROPANE <78-87-5> WE#31
24	212 BROMODICHLOROMETHANE <75-27-4> WE#33
25	218 CIS-1,3-DICHLOROPROPENE <10061-1-5> WE#35
26	256 4-METHYL-2-PENTANONE <108-01-1> WE#36
27	225 TOLUENE <108-88-3> WE#37
28	250 TRANS-1,3-DICHLOROPROPENE <10061-02-6> WE#38
29	228 1,1,2-TRICHLOROETHANE <79-00-5> WE#39
30	224 TETRACHLOROETHENE <127-18-4> WE#41
31	255 2-HEXANONE <591-78-6> WE#42
32	208 DIBROMOCHLOROMETHANE <124-48-1> WE#43
33	207 CHLOROBENZENE <108-90-7> WE#45
34	219 ETHYLBENZENE <100-41-4> WE#47
35	330 M,P-XYLENE <133-02-7> WE#48
36	239 O-XYLENE <133-02-7> WE#49
37	251 STYRENE <100-42-5> WE#50
38	205 BROMOFORM <75-25-2> WE#51
39	223 1,1,2,2-TETRACHLOROETHANE <79-34-5> WE#54
40	*258 D4-1,2-DICHLOROETHANE WE#57
41	*247 BROMOFLUOROBENZENE <460-00-4> WE#58
42	*233 D8-TOLUENE WE#59

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HQMT)	AMOUNT	%TOT
1	128	477	9:58	1	1.000	A BB	67861.	50.000 UG/L	8.27
2	90	NOT FOUND							

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
3	62	NOT FOUND							
4	94	NOT FOUND							
5	64	NOT FOUND							
6	96	216	2:42	1	0.493	A BB	105043.	64.638 UG/L	10.69 <i>yes</i>
7	76	NOT FOUND							
8	43	243	3:02	1	0.509	A+VB	1039.	5.426 UG/L	0.90 <i>no</i>
9	114	614	7:40	9	1.000	A BB	263861.	50.000 UG/L	8.27
10	84	290	3:37	1	0.608	A BB	6754.	4.158 UG/L	0.69 <i>yes</i>
11	96	NOT FOUND							
12	63	NOT FOUND							
13	43	NOT FOUND							
14	96	NOT FOUND							
15	72	NOT FOUND							
16	83	NOT FOUND							
17	97	NOT FOUND							
18	117	NOT FOUND							
19	78	549	6:52	9	0.894	A BB	245148.	56.711 UG/L	9.38 <i>yes</i>
20	62	NOT FOUND							
21	117	996	12:27	21	1.000	A BB	252055.	50.000 UG/L	8.27
22	130	636	7:57	9	1.036	A BB	143605.	59.043 UG/L	9.77 <i>yes</i>
23	63	NOT FOUND							
24	83	NOT FOUND							
25	75	NOT FOUND							
26	43	762	9:31	21	0.765	A+VV	2023.	2.272 UG/L	0.38 <i>no</i>
27	92	604	10:03	21	0.807	A BB	186885.	52.435 UG/L	8.67 <i>yes</i>
28	73	NOT FOUND							
29	97	NOT FOUND							
30	164	NOT FOUND							
31	43	NOT FOUND							
32	129	NOT FOUND							
33	112	999	12:29	21	1.003	A BB	260936.	58.034 UG/L	9.60 <i>yes</i>
34	106	NOT FOUND							
35	106	NOT FOUND							
36	106	NOT FOUND							
37	104	NOT FOUND							
38	173	NOT FOUND							
39	83	NOT FOUND							
40	65	551	6:53	1	1.155	A BV	158999.	52.891 UG/L	8.75
41	95	1171	14:38	21	1.176	A BB	214993.	48.252 UG/L	7.98
42	98	796	9:57	21	0.799	A BB	305039.	50.747 UG/L	8.39

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	5:58	1.00	10.000	0.10	50.00	50.00	1.000	1.000	1.00
2	1:05		10.000			50.00		0.456	
3	1:10		10.000			50.00		0.763	
4	1:28		10.000			50.00		1.114	
5	1:39		10.000			50.00		0.524	
6	2:41	1.00	5.000	0.09	64.64	50.00	1.548	1.197	1.29
7	2:49		5.000			50.00		2.815	
8	3:01	1.01	10.000	0.09	9.43	50.00	0.015	0.141	0.11
9	7:40	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
10	3:36	1.01	5.000	0.12	4.16	50.00	0.100	1.197	0.08
11	3:59		5.000			50.00		1.254	
12	4:40		5.000			50.00		1.925	
13	4:58		10.000			50.00		0.347	
14	5:37		5.000			50.00		1.496	

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
15	5:49		10.000			50.00		0.092	
16	6:13		5.000			50.00		2.770	
17	6:16		5.000			50.00		0.716	
18	6:29		5.000			50.00		0.627	
19	6:51	1.00	5.000	0.18	56.71	50.00	0.864	0.761	1.13
20	6:59		5.000			50.00		2.078	
21	12:26	1.00	5.000	0.20	50.00	50.00	1.000	1.000	1.00
22	7:56	1.00	5.000	0.21	59.04	50.00	0.506	0.428	1.18
23	8:18		5.000			50.00		0.317	
24	8:52		5.000			50.00		0.826	
25	9:35		5.000			50.00		0.861	
26	9:31	1.00	15.000	0.05	2.27	50.00	0.008	0.177	0.05
27	10:01	1.00	5.000	0.16	52.44	50.00	0.741	0.707	1.03
28	10:37		5.000			50.00		0.324	
29	10:54		5.000			50.00		0.327	
30	10:53		5.000			50.00		0.460	
31	11:31		15.000			50.00		0.097	
32	11:32		5.000			50.00		0.442	
33	12:29	1.00	5.000	0.20	58.03	50.00	1.035	0.892	1.16
34	12:46		5.000			50.00		0.421	
35	12:59		5.000			50.00		0.615	
36	13:40		5.000			50.00		0.555	
37	13:44		5.000			50.00		0.872	
38	14:00		5.000			50.00		0.328	
39	15:08		5.000			50.00		0.474	
40	6:52	1.00	5.000	0.23	52.89	50.00	2.343	2.215	1.06
41	14:38	1.00	5.000	0.24	48.25	50.00	0.851	0.882	0.97
42	9:55	1.00	5.000	0.16	50.75	50.00	1.210	1.192	1.01

LAB INSTRUCTIONS:

RECEVOA DATE 11/14
GC/MS WORKSHEET

CASE# 18410.5
COMPUCHEN# 301924
03C 3 J3C 3 D1 3 (:1)
J2C 3 J4C 3 D2C 3 (:1)

GC/MS; VOA; WATER; EPA SOW 2/88

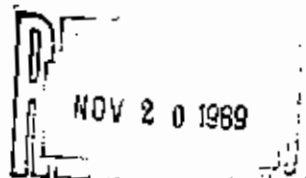
QC

Sample Prep Code---000
Instrument Code---412
Compound List---493
Surrogate Std---394
Internal Std---036

SAMPLE ID# SS 717/540

GC/MS ANALYSIS

Amount Purged: [] Sals or [] Dilution _____ ul/5000ul Sparged
Internal Standard Volume Added _____ 5 ul
Surrogate Standard Volume Added _____ 5 ul
BFB Filename RECA111SA12 Disk (11020)
Blank Filename CCCA111SA12 Disk ()
Standard Filename CSSA111SA12 Disk ()
Sample Filename CA001924B12 Disk ()



ANALYST(S): Injection 11/15/89 Work up 11/15/89

GC/MS REVIEW

CONDITION CODE

OK

Entry Codes OK, JS, SM, 6L, 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, SM

Disposition: [] Complete
[] Reinject Neat
[] Dilute (:1)

Extraneous Peak Search Results:
of Peaks Found: 0

Quality Assurance Notice(s):
Notices Required _____

COMMENTS:

original # 301938

GC/MS Review 11/17/89 Date 11/17/89 Auditor _____ Date _____

REPORT INTEGRATION Total # of Injections: 1
Final Reportable Package(s): CN - B12

QA COMMENTS:

Initials _____ Date _____

FINAL REVIEW:

Initials _____ Date _____

AC1004 (03/89)

CMP #	M/E F	COMPOUND NAME	SCAN	AREA	QUANT REPORT VALUE	REPORTED AMOUNT (UG/L)	DETECT. LIMIT (UG/L)
234	128 J	BROMOCHLOROMETHANE (IS)	477	67900	50.0		
221	50	CHLOROMETHANE				BDL	10
231	62	VINYL CHLORIDE				BDL	10
220	94	BROMOMETHANE				BDL	10
209	64	CHLOROETHANE				BDL	10
216	96	1,1-DICHLOROETHENE			64.6	65	5
254	76	CARBON DISULFIDE				BDL	5
252	43	ACETONE (2-PROPANONE)			5.4	BDL 50	10
248	114 I	1,4-DIFLUOROBENZENE (IS)	614	284000	50.0		
222	84	METHYLENE CHLORIDE			4.2	40	5
226	96	TRANS-1,2-DICHLOROETHENE				BDL	5
214	63	1,1-DICHLOROETHANE				BDL	5
257	43	VINYL ACETATE				BDL	10
237	96	CIS-1,2-DICHLOROETHENE				BDL	5
253	72	2-BUTANONE				BDL	10
211	83	CHLOROFORM				BDL	5
227	97	1,1,1-TRICHLOROETHANE				BDL	5
206	117	CARBON TETRACHLORIDE				BDL	5
203	78	BENZENE			56.7	57	5
215	62	1,2-DICHLOROETHANE				BDL	5
270	117 J	D5-CHLOROBENZENE (IS)	996	252000	50.0		
229	130	TRICHLOROETHENE			59.0	59	5
217	63	1,2-DICHLOROPROPANE				BDL	5
212	83	BROMODICHLOROMETHANE				BDL	5
218	75	CIS-1,3-DICHLOROPROPENE				BDL	5
256	43	4-METHYL-2-PENTANONE			2.3	BDL 20	10
225	92	TOLUENE			52.4	52	5
250	75	TRANS-1,3-DICHLOROPROPENE				BDL	5
228	97	1,1,2-TRICHLOROETHANE				BDL	5
224	164	TETRACHLOROETHENE				BDL	5
255	43	2-HEXANONE				BDL	10
208	129	DIBROMOCHLOROMETHANE, 124-4				BDL	5
207	112	CHLOROBENZENE			58.0	58	5
219	106	ETHYLBENZENE				BDL	5
330	106	M, P-XYLENE				BDL	5
239	106	O-XYLENE				BDL	5
251	104	STYRENE				BDL	5
205	173	BROMOFORM				BDL	5
223	83	1,1,2,2-TETRACHLOROETHANE				BDL	5
258	65 S	D4-1,2-DICHLOROETHANE WE#57			52.9	106. %	
247	95 S	BROMOFLUOROBENZENE			48.2	96. %	
233	98 S	D8-TOLUENE WE#59			50.7	101. %	
289	106	XYLENES (TOTAL)				BDL	5

CORRECTED/REVIEWED BY SDW/agne
(GC/MS DATA REVIEWER)DATE 11-17-89

VOLATILE - MEDIUM OR LOW LEVEL LIQUID

CMP				QUANT	REPORTED	DETECT.
* M/E F	COMPOUND NAME	SCAN	AREA	REPORT	AMOUNT	LIMIT
				VALUE	(UG/L)	(UG/L)
299 96	1,2-DICHLOROETHENE (TOTAL)				BDL	5
CHECKSUMS:						
3979.		2067	603900.	604.4		605.

CORRECTED/REVIEWED BY SDW/mae
(GC/MS DATA REVIEWER)DATE 11-17-89

NO	CC ID#	SURROGATE COMPOUND	QUANT REPORT VALUE	QUANT REPORT AMOUNT SPIKED	% ++ RECOVERY	CONTROL RANGE	P	F
40	258	D4-1,2-DICHLOROETHANE WE#57	32.9	50.0	106.	76-114	X	
41	247	BROMOFLUOROBENZENE	48.2	50.0	96.	86-115	X	
42	233	D8-TOLUENE WE#59	50.7	50.0	101.	88-110	X	

* ADVISORY SURROGATE ONLY

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

CORRECTION FACTOR CALCULATION:

5000 UL

VOLUME OF SAMPLE PURGED (UL)

5000 UL = 1.00 = 5.000 ML

5000. (UL) = 5.000 (ML)

QUANT REPORT AMOUNT SPIKED CONVERSION FACTOR:

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

VERSION B

CORRECTED/REVIEWED BY SDW/2002
(GC/MS DATA) REVIEWER)DATE 11-17-89