190419

Analytical Data Package

for

N.J.D.E.P.

at

N.J. Transit / Conrail Meadows Yard

PART I

September 1987

Submitted by:

H2M LABS, INC.

Consulting Engineers, Environmental Scientists, Architects and Planners
Melville, N.Y. Riverhead, N.Y. Fairfield, N.J.

H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

ANALYTICAL DATA REPORT PACKAGE

FOR

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
Trenton, NJ 08625

Field Sample No.	Laboratory Sample No.	Date and Time of Sample Collection	
Soil #1	759868 - 871	8/19/87	1250
Soil #2	759872 - 875	8/19/87	1225
Soil #3	759876 - 879	8/19/87	1210
Soil #4	759880 - 883	8/19/87	1345
Soil #5	759884 - 887	8/19/87	1115
GW #1	759888 - 891	8/19/87	1230
SW #1	759892 - 895	8/19/87	1145
SW #2	759896 - 899	8/19/87	1230
Field Blank	759900 - 903	8/14/87	1430
Trip Blank	759904	8/14/87	1430

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I. Methodology Review

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METHODOLOGY SUMMARY

Purgable Organics - The procedure used is form method 624 form the Federal Register, for the aqueous samples and method 8240 form SW 846 for the soils. The sample is analyzed using the purge and trap technique on a Finnigan OWA GC/MS.

BASE/NEUTRAL

Acid Extractable - The procedure used is from method 625 from the Federal Register for the aqueous samples and method 8270 form SW 846 for the soils. The samples is extracted by adjusting the pH to a basic medium, then an acidic method and analyzed on HP GC/MS.

Pesticide/PCB - The procedure used is from method 608 for the Federal Register for the aqueous samples and method 8080 for SW 846 for the soils. The sample is extracted and analyzed on an ECD Gas Chromatograph.

Metals - The procedures used are from the 200 series EPA methods for the aqueous samples and the 7000 series for the soils, these samples were analyzed on a Perkin Elmer 5000 AA with Graphite Furnace and a Perkin Elmer 2380A.

H2M LABORATORY

II. Sample Analysis Request Form(s)

SAMPLE ANALYSIS REQUEST FORM

NJDEP File #

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON: NJDEP/DHWM/RPA		CODE	MAILING ADDRESS: 65 Prospect St. Trenton NJ
SAMPLE LOCATION: NJ Transit REMF			

SAMPLE COLLECTOR

SAMPLER(S) Name: R Reisch	DIVISION: DHWM			
Name: D Musar	CONTRACT #: 4085	Task #		Report Format

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.: BSA 081787	SAMPLING DATE: 8/19/87	ABSCISSA (Longitude)
SAMPLE POINT ID: Soil #3	TIME (MIL) SAMPLING BEGAN: 1210	ORDINATE (Latitude)
SAMPLE SOURCE CODE: 401	TIME (MIL) SAMPLING FINISHED: 1215	ELEVATION
REFERENCE POINT		

SAMPLING PROCESS

COLLECTION METHOD	Code: Grab	Other	SAMPLE TYPE	Code: 105	Other
TYPE OF SAMPLER	Code: 323	Other: trowel	SAMPLE MATRIX	Code: 203	Other
DESCRIPTION					

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER		PARAMETER		PARAMETER
AIR TEMP. 85°F	VALUE		VALUE		VALUE
WEATHER Sunny					

CHAIN-OF-CUSTODY IMPLEMENTED ☐ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	EMERG. (Check One)	NON-EMERG. (Check One)
PP+40/CN/tot phenol	BSA 081787			

ANALYSIS(ES) AUTHORIZED BY: Al Plaia TITLE: HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME: H2M Lab	PERSON ACCEPTING SAMPLE: James Padilla		TITLE: Asst. Lab Svc. Mgr.
LAB ID #:	LAB CONTROL #: see above	DATE: 8/20/87	TIME (MIL): 800 HRS.

BSA 081787

1a

Form DEP-059
10/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

SAMPLE ANALYSIS REQUEST FORM

NJDEP File # _____

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON: NJDEP/DHWM/BPA | CODE: | MAILING ADDRESS: 65 Prospect ST Trenton NJ

SAMPLE LOCATION: NJ Transit REMF

SAMPLE COLLECTOR

SAMPLER(S) Name: R. Relsch | DIVISION: DHWM

Name: D Mazur | CONTRACT #: X085 | Task #: | Report Format:

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.: BSA 0819786 | SAMPLING DATE: 8/19/87 | ABSCISSA (Longitude):

SAMPLE POINT ID: Soil #2 | TIME (MIL) SAMPLING BEGAN: 1225 | ORDINATE (Latitude):

SAMPLE SOURCE CODE: 401 | TIME (MIL) SAMPLING FINISHED: 1220 | ELEVATION:

REFERENCE POINT:

SAMPLING PROCESS

COLLECTION METHOD: Code: Grab Other:

TYPE OF SAMPLER: Code: 323 Other: trowel

DESCRIPTION:

SAMPLE TYPE: Code: 105 Other:

SAMPLE MATRIX: Code: 203 Other:

FIELD MEASUREMENTS

SAMPLE TEMP.: °C

AIR TEMP.: 85° F

WEATHER: Sunny

PARAMETER	VALUE	PARAMETER	VALUE	PARAMETER	VALUE

CHAIN-OF-CUSTODY IMPLEMENTED: ☒ YES ☐ NO

PRESERVATION CODE(S): ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	EMERG.	NON-EMERG. (Check One)
PP+40/CN/tot phenol	BSA 0819786	6		

ANALYSIS(ES) AUTHORIZED BY: Al Pleva | TITLE: HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME: Ham Lab | PERSON ACCEPTING SAMPLE: James Padilla | TITLE: Asst. Lab Sec. Mgr.

LAB CONTROL #: see above | DATE: 8/20/87 | TIME (MIL): 1200 HRS.

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Form DEP-059
10/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

SAMPLE ANALYSIS REQUEST FORM

NJDEP File # _____

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON: NJDEP/DHWM/BPA	CODE	MAILING ADDRESS: 65 Prospect St.	
SAMPLE LOCATION: NJ Transit REMF		Trenton NJ	

SAMPLE COLLECTOR

SAMPLER(S) Name: R Reisch	DIVISION: DHWM		
Name: D Mezzo	CONTRACT #: X085	Task #	Report Format

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.: BSA 0819785	SAMPLING DATE: 8/19/87	ABSCISSA (Longitude)
SAMPLE POINT ID: Soil #1	TIME (MIL) SAMPLING BEGAN: 1250	ORDINATE (Latitude)
SAMPLE SOURCE CODE: ~~505~~ 401	TIME (MIL) SAMPLING FINISHED: 1255	ELEVATION
REFERENCE POINT		

SAMPLING PROCESS

COLLECTION METHOD	Code: Grab	Other	SAMPLE TYPE	Code: 105	Other
TYPE OF SAMPLER	Code: 323	Other: ~~trowel~~	SAMPLE MATRIX	Code: 203	Other
DESCRIPTION					

FIELD MEASUREMENTS

SAMPLE TEMP.	°C	PARAMETER	PARAMETER	PARAMETER	
AIR TEMP.	85°F °C	VALUE	VALUE	VALUE	
WEATHER	Sunny				

CHAIN-OF-CUSTODY IMPLEMENTED ☒ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	EMERG. (Check One)	NON-EMERG. (Check One)
PP+40/CN/tot. phenol	BSA 0819785			

ANALYSIS(ES) AUTHORIZED BY: Al Pleva TITLE: HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME: H2M LAB	PERSON ACCEPTING SAMPLE: James Padilla	TITLE: Asst. Lab Suc. Mgr.			
LAB ID #	LAB CONTROL #: see above	DATE: 8/20/87	TIME (MIL): 1200 HRS		

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

SAMPLE ANALYSIS REQUEST FORM

NJDEP File # _____

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON: NJDEP/DHWM/BPA	CODE:	MAILING ADDRESS: 65 Prospect ST Trenton NJ	
SAMPLE LOCATION: NJ TRANSIT- REMF			

SAMPLE COLLECTOR

SAMPLER(S) Name: R. Raisch	DIVISION: DHWM		
Name: D. Maeur	CONTRACT #: X085	Task #:	Report Format:

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.: BSA 0819788	SAMPLING DATE: 8/19/87		ABSCISSA (Longitude):
SAMPLE POINT ID: Soil 4	TIME (MIL) SAMPLING BEGAN: 1345		ORDINATE (Latitude):
SAMPLE SOURCE CODE: 401	TIME (MIL) SAMPLING FINISHED: 1350		ELEVATION:
REFERENCE POINT:			

SAMPLING PROCESS

COLLECTION METHOD	Code: Grab	Other:	SAMPLE TYPE	Code: 105	Other:
TYPE OF SAMPLER	Code: 323	Other: trowel	SAMPLE MATRIX	Code: 203	Other:
DESCRIPTION:					

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER		PARAMETER		PARAMETER
AIR TEMP. 85° F	VALUE		VALUE		VALUE
WEATHER: Sunny					

CHAIN-OF-CUSTODY IMPLEMENTED: ☒ YES ☐ NO

PRESERVATION CODE(S): ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	EMERG. (Check One)	NON-EMERG. (Check One)
PP + 40/CN/ tot phenol	BSA0819788			

ANALYSIS(ES) AUTHORIZED BY: Al Plewa TITLE: HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME: H2M Lab	PERSON ACCEPTING SAMPLE: James Padilla	TITLE: Asst. Lab Suc. Mgr.	
LAB ID #:	LAB CONTROL #: see above	DATE: 8/20/87	TIME (MIL): 2400 HRS.

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

SAMPLE ANALYSIS REQUEST FORM

NJDEP
File # _____

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON	NJDEP/DHWM/BPA	CODE	MAILING ADDRESS 65 Prospect ST
SAMPLE LOCATION	NJ Transit REMF		Trenton NJ

SAMPLE COLLECTOR

SAMPLER(S) Name	R. Ralsch	DIVISION	DHWM
Name	D. Mazur	CONTRACT # X085	Task # / Report Format

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.	BSA0819789	SAMPLING DATE	8/19/87	ABSCISSA (Longitude)	
SAMPLE POINT ID	Soil 5	TIME (MIL) SAMPLING BEGAN	1115	ORDINATE (Latitude)	
SAMPLE SOURCE CODE	401	TIME (MIL) SAMPLING FINISHED	1120	ELEVATION	
REFERENCE POINT					

SAMPLING PROCESS

COLLECTION METHOD	Code Grab	Other	SAMPLE TYPE	Code 105	Other
TYPE OF SAMPLER	Code 323	Other trowel	SAMPLE MATRIX	Code 203	Other
DESCRIPTION					

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER	PARAMETER	PARAMETER
AIR TEMP. 45°F °C	VALUE	VALUE	VALUE
WEATHER Sunny			

CHAIN-OF-CUSTODY IMPLEMENTED ☒ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	EMERG.	NON-EMERG. (Check One)
PP+40 / CN / total phenol	BSA0819789			

ANALYSIS(ES) AUTHORIZED BY	Al Pleva	TITLE	HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME	H2M Lab	PERSON ACCEPTING SAMPLE	James Padilla
TITLE	Asst. Lab Svc. Mgr.		
LAB ID #		LAB CONTROL # see above	
DATE	8/20/87	TIME (MIL)	1200 HRS

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

SAMPLE ANALYSIS REQUEST FORM

NJDEP
File # _____

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON	NJDEP/DHWM/BPA	CODE	MAILING ADDRESS 65 Prospect St. Trenton NJ
SAMPLE LOCATION	NJ Transit REMF		

SAMPLE COLLECTOR

SAMPLER(S) Name R. Gervasio	DIVISION DHWM		
Name	CONTRACT # X085	Task #	Report Format

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.	BSA 08197890	SAMPLING DATE	8/19/87	ABSCISSA (Longitude)	
SAMPLE POINT ID	GW#1	TIME (MIL) SAMPLING BEGAN	1230	ORDINATE (Latitude)	
SAMPLE SOURCE CODE	400	TIME (MIL) SAMPLING FINISHED	1320	ELEVATION	
REFERENCE POINT					

SAMPLING PROCESS

COLLECTION METHOD	Code Grab	Other	SAMPLE TYPE	Code 101	Other
TYPE OF SAMPLER	Code 314	Other	SAMPLE MATRIX	Code 200	Other
DESCRIPTION	Black oily water				

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER	PARAMETER	PARAMETER
AIR TEMP. 85 °C	VALUE	VALUE	VALUE
WEATHER Sunny			

CHAIN-OF-CUSTODY IMPLEMENTED ☒ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	EMERG.	NON-EMERG. (Check One)
PP+40/CN/tot phenol	17			

ANALYSIS(ES) AUTHORIZED BY Al Plera

TITLE HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME H2M Lab	PERSON ACCEPTING SAMPLE James Padilla	TITLE Asst. Lab Svc, Mgr.	
LAB ID #	LAB CONTROL # see above	DATE 8/20/87	TIME (MIL) 1200 HRS.

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

SAMPLE ANALYSIS REQUEST FORM

NJDEP File # _____

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON: NJDEP/DHWM/BPA	CODE	MAILING ADDRESS: 65 Prospect St	
SAMPLE LOCATION: NJ Transit - REMF		Trenton NJ	

SAMPLE COLLECTOR

SAMPLER(S) Name: Raisch	DIVISION: DHWM		
Name: Mayer	CONTRACT #: X085	Task #:	Report Format:

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.: BSA0819799 1	SAMPLING DATE: 8-19-87	ABSCISSA (Longitude):
SAMPLE POINT ID: SW#1	TIME (MIL) SAMPLING BEGAN: 1145	ORDINATE (Latitude):
SAMPLE SOURCE CODE: 402	TIME (MIL) SAMPLING FINISHED: 1150	ELEVATION:
REFERENCE POINT:		

SAMPLING PROCESS

COLLECTION METHOD	Code: Grab	Other:	SAMPLE TYPE	Code: 102	Other:
TYPE OF SAMPLER	Code: 323	Other:	SAMPLE MATRIX	Code: 200	Other:
DESCRIPTION:					

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER	PARAMETER	PARAMETER
AIR TEMP. 85°F °C	VALUE	VALUE	VALUE
WEATHER: Sunny			

CHAIN-OF-CUSTODY IMPLEMENTED ☒ YES ☐ NO

PRESERVATION CODE(S): ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	EMERG. (Check One)	NON-EMERG. (Check One)
PP+40/CN/total phenol	BSA0819799 1			

ANALYSIS(ES) AUTHORIZED BY: Al Pluta TITLE: HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME: H2M Lab	PERSON ACCEPTING SAMPLE: James Padilla	TITLE: Asst. Lab Suc. Mgr.	
LAB ID #:	LAB CONTROL #: see above	DATE: 8/20/87	TIME (MIL): 1200 HRS.

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

SAMPLE ANALYSIS REQUEST FORM

NJDEP File # _____

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON: NJDEP/DHWM/RPA	CODE	MAILING ADDRESS: 65 Prospect St.	
SAMPLE LOCATION: NJ Transit REMF		Trenton NJ	

SAMPLE COLLECTOR

SAMPLER(S) Name: R. Rausch	DIVISION: DHWM			
Name: D. Mazur	CONTRACT #: X085	Task #	Report Format	

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.: BSA 819792	SAMPLING DATE: 8/19/87	ABSCISSA (Longitude)
SAMPLE POINT ID: SW #2	TIME (MIL) SAMPLING BEGAN: 1230	ORDINATE (Latitude)
SAMPLE SOURCE CODE: 402	TIME (MIL) SAMPLING FINISHED: 1235	ELEVATION
REFERENCE POINT		

SAMPLING PROCESS

COLLECTION METHOD	Code: Grab	Other	SAMPLE TYPE	Code: 102	Other
TYPE OF SAMPLER	Code: 323	Other	SAMPLE MATRIX	Code: 200	Other
DESCRIPTION: oily water					

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER	PARAMETER	PARAMETER
AIR TEMP. 85 °C	VALUE	VALUE	VALUE
WEATHER: Sunny			

CHAIN-OF-CUSTODY IMPLEMENTED ☒ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	EMERG. (Check One)	NON-EMERG. (Check One)
PP+40 | CN | tot. phenol	BSA 819792			

ANALYSIS(ES) AUTHORIZED BY: Al Plaza | TITLE: HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME: H2M Lab	PERSON ACCEPTING SAMPLE: James Padilla	TITLE: Asst. Lab Svc. Mgr.	
LAB ID #	LAB CONTROL # see above	DATE: 8/20/87	TIME (MIL): 800 HRS.

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

SAMPLE ANALYSIS REQUEST FORM

NJDEP File # _____

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON: NJDEP/DHWM/BPA	CODE	MAILING ADDRESS: 105 Prospect St	
SAMPLE LOCATION: NJ TRANSIT - REMF		Trenton NJ	

SAMPLE COLLECTOR

SAMPLER(S) Name: R. Rolsch	DIVISION: DHWM		
Name: D. Gaffigan	CONTRACT #: X085	Task #	Report Format

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.: BSA 08197993	SAMPLING DATE: 8/19/87		ABSCISSA (Longitude)
SAMPLE POINT ID: FIELD BLANK	TIME (MIL) SAMPLING BEGAN: 1000		ORDINATE (Latitude)
SAMPLE SOURCE CODE	TIME (MIL) SAMPLING FINISHED: 1015		ELEVATION
REFERENCE POINT			

SAMPLING PROCESS

COLLECTION METHOD	Code	Other	SAMPLE TYPE	Code	Other
TYPE OF SAMPLER	Code	Other	SAMPLE MATRIX	Code	Other
DESCRIPTION					

FIELD MEASUREMENTS

SAMPLE TEMP. °C		PARAMETER		PARAMETER		PARAMETER	
AIR TEMP. 85°F °C							
WEATHER: Sunny		VALUE		VALUE		VALUE	

CHAIN-OF-CUSTODY IMPLEMENTED ☒ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	EMERG. (Check One)	NON-EMERG. (Check One)
PP+40/CN Hot phenol	BSA08197993			

ANALYSIS(ES) AUTHORIZED BY: AL PLEVA | TITLE: HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME: H2M LAB		PERSON ACCEPTING SAMPLE: James Padilla		TITLE: Asst. Lab Suc. Mgr.	
LAB ID #	LAB CONTROL #: see above		DATE: 8/20/87		TIME (MIL): 1200 HRS

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

SAMPLE ANALYSIS REQUEST FORM

NJDEP File # _____

SAMPLE LOCATION

NAME OF FACILITY/ COMPANY/PERSON: NJDEP/DHWM/BPA	CODE	MAILING ADDRESS: 65 Prospect ST	
SAMPLE LOCATION: NJ TRANSIT- REMF		Trenton NJ	

SAMPLE COLLECTOR

SAMPLER(S) Name: D. Masur	DIVISION: DHWM		
Name	CONTRACT #: X085	Task #	Report Format

SAMPLE IDENTIFICATION

NJDEP SAMPLE NO.: BSA 08197994	SAMPLING DATE: 8/19/87	ABSCISSA (Longitude)
SAMPLE POINT ID: TRIP BLANK	TIME (MIL) SAMPLING BEGAN: 1000	ORDINATE (Latitude)
SAMPLE SOURCE CODE	TIME (MIL) SAMPLING FINISHED	ELEVATION
REFERENCE POINT		

SAMPLING PROCESS

COLLECTION METHOD	Code	Other	SAMPLE TYPE	Code	Other
TYPE OF SAMPLER	Code	Other	SAMPLE MATRIX	Code	Other
DESCRIPTION					

FIELD MEASUREMENTS

SAMPLE TEMP. °C	PARAMETER	PARAMETER	PARAMETER
AIR TEMP. 85 °F 5 °C	VALUE	VALUE	VALUE
WEATHER Sunny			

CHAIN-OF-CUSTODY IMPLEMENTED ☒ YES ☐ NO

PRESERVATION CODE(S) ___ ___ ___ ___ ___

REQUESTED ANALYSIS(ES)

PARAMETERS (by Compound or Group of Compounds)	CONTAINER NUMBER	DETECTION LIMIT (digits/units)	EMERG. (Check One)	NON-EMERG. (Check One)
VOA	BSA 08197994			

ANALYSIS(ES) AUTHORIZED BY: Al Pleva TITLE: HSMS I

ANALYZING LABORATORY

CONTRACT LAB NAME: H2M Lab	PERSON ACCEPTING SAMPLE: James Padilla	TITLE: Asst. Lab Suc. Mgr.	
LAB ID #	LAB CONTROL #: see above	DATE: 8/20/87	TIME (MIL): 1100 HRS

H2M LABORATORY

III. Laboratory Chronicle(s)

H2M LABORATORY

Acid 1

LABORATORY CHRONICLE

Receipt/Refrigeration 8/26/87

ORGANICS
EXTRACTION

1. Acids 8/26/87
2. Base/Neutrals 8/26/87
3. Pesticides/PCB's 8/26/87

ANALYSIS

1. Volatiles 8/28/87
2. Acids 9/11/87
3. Base/Neutrals 9/11/87
4. Pesticides/PCB's 9/11/87

Section Supervisor Review & Approval M. Liddell

INORGANICS (For detailed chronicle please see In-house Chain of Custody)

1. Metals (see chain-of-custody)
2. Cyanides 9/27/87
3. Phenol 9/1/87

OTHER ANALYTES

Section Supervisor Review & Approval

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

H2M LABORATORY

Sort # 2

LABORATORY CHRONICLE

Receipt/Refrigeration 8/2[illegible]/87

ORGANICS
EXTRACTION

1. Acids 8/26/87
2. Base/Neutrals 8/26/87
3. Pesticides/PCB's 8/26/87

ANALYSIS

1. Volatiles 8/28/87
2. Acids 9/11/87
3. Base/Neutrals 9/11/87
4. Pesticides/PCB's 9/11/87, 9/14/87

Section Supervisor [illegible] Middel
Review & Approval

INORGANICS (For detailed chronicle please see In-house Chain of Custody)

1. Metals See Chain of custody
2. Cyanides 8/27/87
3. Phenol 9/1/87

OTHER ANALYTES

Section Supervisor [illegible]
Review & Approval

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

H2M LABORATORY

Aud # 3

LABORATORY CHRONICLE

Receipt/Refrigeration 8/20/87

ORGANICS
EXTRACTION

1. Acids 8/26/87
2. Base/Neutrals 8/26/87
3. Pesticides/PCB's 8/26/87

ANALYSIS

1. Volatiles 8/28/87.
2. Acids 9/1/87
3. Base/Neutrals 9/1/87
4. Pesticides/PCB's 9/10/87, 9/14/87

Section Supervisor Review & Approval M. Riddel

INORGANICS (For detailed chronicle please see In-house Chain of Custody)

1. Metals See Chain of custody
2. Cyanides 8/27/87
3. Phenol 9/1/87

OTHER ANALYTES

Section Supervisor Review & Approval

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

H2M LABORATORY

Lab # 4

LABORATORY CHRONICLE

Receipt/Refrigeration 8/20/87

ORGANICS
EXTRACTION

1. Acids 8/26/87
2. Base/Neutrals 8/26/87
3. Pesticides/PCB's 8/26/87

ANALYSIS

1. Volatiles 8/28/87
2. Acids 9/4/87
3. Base/Neutrals 9/4/87
4. Pesticides/PCB's 9/10/87, 9/14/87

Section Supervisor Review & Approval M. Middel

INORGANICS (For detailed chronicle please see In-house Chain of Custody)

1. Metals See Chain of Custody
2. Cyanides 8/31/87
3. Phenol 9/1/87

OTHER ANALYTES

Section Supervisor Review & Approval

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

H2M LABORATORY

Audit #5

LABORATORY CHRONICLE

Receipt/Refrigeration 8/20/87

ORGANICS
EXTRACTION

1. Acids 8/26/87
2. Base/Neutrals 8/26/87
3. Pesticides/PCB's 8/26/87

ANALYSIS

1. Volatiles 8/28/87
2. Acids 9/11/87
3. Base/Neutrals 9/11/87
4. Pesticides/PCB's 9/10/87, 9/14/87

Section Supervisor Review & Approval M. Middel

INORGANICS (For detailed chronicle please see In-house Chain of Custody)

1. Metals See Chain of custody
2. Cyanides 8/27/87
3. Phenol 9/1/87

OTHER ANALYTES

Section Supervisor Review & Approval

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

H2M LABORATORY

GW# 1

LABORATORY CHRONICLE

Receipt/Refrigeration 8/20/87

ORGANICS
EXTRACTION

1. Acids 8/22/87
2. Base/Neutrals 8/22/87
3. Pesticides/PCB's 8/22/87

ANALYSIS

1. Volatiles 8/26/87, 8/28/87
2. Acids 9/9/87
3. Base/Neutrals 9/9/87
4. Pesticides/PCB's 9/11/87, 9/14/87

Section Supervisor Review & Approval A. Middle

INORGANICS (For detailed chronicle please see In-house Chain of Custody)

1. Metals See chain of custody
2. Cyanides 8/27/87
3. Phenol 9/1/87

OTHER ANALYTES

Section Supervisor Review & Approval Sol Bobelman

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

H2M LABORATORY

SW# 1

LABORATORY CHRONICLE

Receipt/Refrigeration 8/20/87

ORGANICS
EXTRACTION

1. Acids 8/22/87
2. Base/Neutrals 8/22/87
3. Pesticides/PCB's 8/22/87

ANALYSIS

1. Volatiles 8/24/87
2. Acids 9/9/87
3. Base/Neutrals 9/9/87
4. Pesticides/PCB's 9/16/87, 9/14/87

Section Supervisor H. Middleton
Review & Approval

INORGANICS (For detailed chronicle please see In-house Chain of Custody)

1. Metals (see chain of custody)
2. Cyanides 8/22/87
3. Phenol 9/1/87

OTHER ANALYTES

Section Supervisor Sol Baldassari
Review & Approval

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

H2M LABORATORY

SW # 2

LABORATORY CHRONICLE

Receipt/Refrigeration 8/20/87

ORGANICS
EXTRACTION

1. Acids 8/22/87
2. Base/Neutrals 8/22/87
3. Pesticides/PCB's 8/22/87

ANALYSIS

1. Volatiles 8/26/87
2. Acids 9/9/87
3. Base/Neutrals 9/4/87
4. Pesticides/PCB's 9/10/87

Section Supervisor Review & Approval Ch. Middel

INORGANICS (For detailed chronicle please see In-house Chain of Custody)

1. Metals see chain of custody
2. Cyanides 8/21/87
3. Phenol 9/1/87

OTHER ANALYTES

Section Supervisor Review & Approval Sal Belelamonte

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

H2M LABORATORY

field blank

LABORATORY CHRONICLE

Receipt/Refrigeration 8/22/87

ORGANICS
EXTRACTION

1. Acids 8/22/87
2. Base/Neutrals 8/22/87
3. Pesticides/PCB's 8/22/87

ANALYSIS

1. Volatiles 8/26/87
2. Acids 9/9/87
3. Base/Neutrals 9/9/87
4. Pesticides/PCB's 9/10/87, 9/14/87

Section Supervisor M. Middel
Review & Approval

INORGANICS (For detailed chronicle please see In-house Chain of Custody)

1. Metals see chain of custody
2. Cyanides 8/27/87
3. Phenol 9/1/87

OTHER ANALYTES

Section Supervisor [illegible]
Review & Approval

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

H2M LABORATORY

trip blank

LABORATORY CHRONICLE

Receipt/Refrigeration 8/20/87

ORGANICS
EXTRACTION

1. Acids _____
2. Base/Neutrals _____
3. Pesticides/PCB's _____

ANALYSIS

1. Volatiles 8/26/87
2. Acids _____
3. Base/Neutrals _____
4. Pesticides/PCB's _____

Section Supervisor M. Widdel
Review & Approval

INORGANICS (For detailed chronicle please see In-house Chain of Custody)

1. Metals _____
2. Cyanides _____
3. Phenol _____

OTHER ANALYTES

_____
_____
_____

Section Supervisor _____
Review & Approval

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

H2M LABORATORY

IV. Non-Conformance Summary (Case Narrative)

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CASE NARRATIVE FOR PURGEABLE ORGANICS

There was a shift in the retention times of the matrix spike duplicate of the soil sample. Therefore the masses were manually searched since the targeted compounds fell outside the retention time window. The shift is thought to be due to the GC temperature program not being triggered at the correct time. Lab number 759888 has the quantification limits elevated by a factor of five due to 1 ml of sample being used.

Hexamethylcyclotrisiloxane was detected in several samples as well as the instrument blank. This compound is frequently seen as column bleed. Carbon dioxide is a contaminant of the carrier gas and was also seen in the instrument blank. Chloromethane was found in an instrument blank at a level of 13 ug/l.

Bromomethane and chloromethane were found in the trip blank and the field blank. The trip blank had chloromethane levels of 102 ug/l and bromomethane levels of 11 ug/l and the field blank had chloromethane levels of 448 ug/l and bromomethane levels of 13 ug/l. High hevels of both these compounds were detected in the samples. Therefore, possible contamination could have occured in sample transport.

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I. Case Narrative for Base/Neutral/Acid Extractables

All Samples with the exception of the Field Blank were prescreened by capillary GC-FID and appropriate dilutions of the extracts were made. BSA08197890 QC spikes were unable to recover the following compounds acceptable to method 625 recovery requirements: 2-Chloronapthalene, 2,6-dinitro-toluene, 4-Chlorophenyl phenyl ether and 4-bromophenylphenyl ether.

BSA0819788 sample extract interfered with aniline-d5 (internal standard) resulting in very high recoveries for 2-flurophenol and phenol-d6. Three continuing calibration compounds (hexachlorobutadiene, pentachlorophenol, benzo(a)pyrene) had RPD >25%.

H2M LABS, INC.

Case Narrative for Pesticides/PCB's:

Calibration and linearity satisfied QC/QA criteria.

Recoveries for DBC exceeded the EPA advisory limits because the peaks included a contaminant DIOP, which does not separate on the packed column from DBC. The consistently high recoveries for αBHC, (except for the soil), all DDT isomers, Endrin and Heptachlor Epoxide for the matrix spikes and matrix spike duplicates and the alumina column test might indicate too high concentrations of the spiking solution. This matter is under investigation.

α BHC was lost entirely for both spiked analyses of the soil, which is probably due to a matrix problem.

Alumina was used for cleanup. The correct deactivation was tested with a standard solution. Good recoveries were achieved except for Endosulfan I with 21%. None of the samples contained Endosulfan I.

The retention times for DBC shifted more than 2% for the runs of the samples BSA 0819786, BSA 0819788, BSA 0819789, and BSA 0819790. For identification of the targeted compounds the windows for the analyte retention times were shifted by the same percentage to guard against false positives or false negatives. Only a few of the many unknowns fell in the windows of the pesticides and only some of those had matching peaks on the secondary column as well. No confirmation can be performed by GC/MS for those "positives", because of their very low concentration.

Samples BSA 0819787 and BSA 0819789 contained high levels of unknown compounds that interfered with the determination of low pesticides on the primary column run. The capillary secondary column proved more suitable for the analysis and the absence of reportable levels of pesticides was determined from the capillary runs.

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CASE NARATIVE FOR METALS AND WET CHEMISTRY.

Problems were encountered with the sample 759891 BSA0819890 parameters are as follows:

PHENOL: Sample required dilution, initial analysis had percent Transmitance of less than 10. Reanalysis of a 100 ml aliquot yeilded a satisfactory result of 200 ug/l.

SPIKE RECOVERIES were less than seventy five percent for Antimony, Cadmium, Chromium and Mercury. Results reported flagged with "N" and "E" suspecting interferences.

Problems were encountered with sample 759871 BSA0819755 parameters are as follows:

SPIKE RECOVERIES: were less than seveny five percent for Mercury, Selenium, and thallium. Spike recoveries were greater than one hundred twenty five percent for Chromium, Copper, Silver and Zinc. Associated results were reported flagged with "N" and "E" suspecting interferences.

DUPLICATE ANALYSIS: Only one problem was encountered with duplicate analysis. Sample 759871 BSA0819785 Mercury analysis was greater than twenty percent relative percent difference, result was reported flagged with "*".

STANDARD ADDITION RESULTS ARE AS FOLLOWS: Sample 760875, 760879, and 760887 all required MSA Procedure for Arsenic analysis. The correlation coefficeint was greater than 0.995. Results reported were flagged with "S".

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CASE NARRATIVE FOR METALS AND WET CHEMISTRY

SPIKE RECOVERIES: Parameters flagged with a "*" on Form V refer to initial sample concentrations which were overcalibration and required dilution. The matrix spike was therefore incalculable.

H2M LABORATORY

V. QC Summary

1. Surrogate Recovery Form
2. MS/MSD Form
3. Method Blank Summary
4. GC/MS Tuning Form
5. Initial and Continuing Calibration Verification
6. Continuing Calibration Verification
7. Blanks (Inorganics)
8. Duplicates (Inorganics)
9. Spike Sample Recovery (Inorganics)
10. Instrument Detection Limit and Laboratory Control Sample
11. Standard Addition Results
12. Holding Times
13. Instrument Detection Limits

for scans:

____X____GC/MS Volatiles
____X____GC/MS Extractables
____X____Pesticides/PCB's
_____GC Volatiles
____X____Metals

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Water Surrogate Percent Recovery Summary

Sample Number	Toluene d-8 61-117	Bromoflu-obenzene 78-121	1,2-Di-chloro-ethane-d4 23-120	Nitrobe-nzene-d5 38-115	2 Fluo-robi phenol 18-137	Terphen-yl d-14 24-113	(1) Phenol d-5 25-121	2-Fluoro phenol 19-122	2,4,6-tribromo-phenol 20-150	Dibutyl chlor-endate 24-154
Stand	100	100	100							
Blank	103	79	130	57	64	83	55	55	42	205*
#GW1	74	78	86	89	77	160*	67	77	50	225*
#GW1MS	135	113	75	83	58	130	101*	121*	18	134
#GW1MSD	140	77	63	71	54	(2)	39	74	13	150
#SW1	129	113	115	81	92	159*	46	64	43	162*
#SW2	105	93	105	70	76	102	26	38	52	97
Field Blk	102	111	107	66	84	98	46	68	40	410*
Trip Blk	133	97	132							
Blank				54	53	83	80	76	44	1190*

*Values are outside of contract required QC limits
** Advisory limits only

Volatiles: 0 out of 2 ; outside QC limits
Semi-Volatiles: 4 out of 47 ; outside QC limits
Pesticides: 5 out of 8 ; outside QC limits

1) Phenol-d6 used
2) Internal Standard interference prevented % recovery calculation.

H2M LABS, INC.
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Soil Surrogate Percent Recovery Summary

Sample Number	Toluene d-8 61-117	Bromoflu-obenzene 78-121	1,2-Di-chloro-ethane-d4 23-120	Nitrobe-nzene-d5 38-115	2 Fluo-robi phenol 18-137	Terphen-yl d-14 24-113	(1) Phenol d-5 25-121	2-Fluoro phenol 19-122	2,4,6-tribromo-phenol 20-150	Dibutyl chlor-endate 24-154
Stand	100	100	100							
Blank	110	92	90							
Soil#1	108	85	89	44	54	75	112	68	37	132
Soil#1MS	126	78	94	76	105	119	62	57	81	142
Soil#1MSD	132	68	95	60	80	97	55	56	82	93
Soil#2	97	83	87	73	102	175*	100	96	83	128%
Soil#3	108	120	104	55	95	157*	52	52	95	133%
Soil#4	98	103	105	71	106	145*	1278*	1115*	116	106
Soil#5	101	87	91	80	115	183*	74	68	99	205*

*Values are outside of contract required QC limits
** Advisory limits only

Volatiles: 0 out of ~~24~~ 27 ; outside QC limits
Semi-Volatiles: 6 out of 42 ; outside QC limits
Pesticides: 1 out of 7 ; outside QC limits

1) Phenol-d6 used
2) Internal Standard interference caused high surrogate recoveries.

WATER MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Case No. : Contractor : KOM LABS Contract No. : N.J DEP

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/L)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS RPD	QC LIMITS RECOVERY
VOA SMO SAMPLE NO	Chloromethane	150	50U	178	119	196	131	9.6	35	
	Bromomethane	150	50U	193	129	237	158	20	35	
	Vinyl chloride	150	50U	190	127	198	133	3.9	35	
	Chloroethane	150	50U	101	67	107	71	5.8	35	
	Methylene chloride	150	14 BJ	192	128	164	109	16	35	
	1,1-Dichloroethene	150	25U	184	123	198	132	7.1	35	
	1,1-Dichloroethane	150	25U	199	133	178	119	11	35	
	trans-1,2-Dichloroethene	150	25U	177	118	202	135	13	35	
	Chloroform	150	25U	169	113	190	127	12	36	
	1,2-Dichloroethane	150	25U	105	70	137	91	26	35	
	Trichlorofluoromethane	150	25U	160	107	171	114	6.3	35	
	1,1,1-Trichloroethane	150	25U	199	133	194	129	1.0	35	
	Carbon tetrachloride	150	25U	116	77	177	118	42*	35	
	Bromodichloromethane	150	25U	192	128	194	129	1.0	35	
	1,2-Dichloropropane	150	25U	180	120	199	133	10	35	
	trans-1,3-Dichloropropene	160	25U	193	129	191	133	3.1	35	
	Trichloroethene	150	25U	200	133	173	115	15	35	
	Dibromochloromethane	150	25U	111	74	136	90	20	35	
	1,1,2-Trichloroethane	150	25U	129	86	174	116	30	35	
	Benzene	150	25U	203	135	172	114	17	95	
	cis-1,3-Dichloropropene	150	25U	114	76	77	51	39*	35	
	2-Chloroethylvinylether	150	50U	129	86	141	94	9	36	
	Bromoform	150	25U	200	133	253	169	24	35	
	Tetrachloroethene	150	25U	193	128	190	127	1	35	
	1,1,2,2-Tetrachloroethane	150	25U	157	105	159	150	35	36	
	Toluene	150	14 BJ	185	123	184	123	0	35	
	Chlorobenzene	150	25U	185	123	186	124	1	35	
	Ethylbenzene	150	25U	194	129	202	134	35*	35	
	1,2 Dichlorobenzene	150	25U	171	114	179	119	4.3	35	
	1,3 Dichlorobenzene	150	25U	140	93	144	96	32	35	
	1,4 Dichlorobenzene	150	25U	116	77	132	88	17	35	

Comments:

* Component exceeded RPD of 35%

SOIL . MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Case No. :

Contractor : H2M LABS

Contract No. : NJ DEP

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/kg)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS RPD	QC LIMITS RECOVERY
VOA SMO SAMPLE NO	Chloromethane	6940	260000	2554	120	7656	111	11	35	
	Bromomethane	6940	5600	10663	151	11462	164	6	35	
	Vinyl chloride	6940	2300	9312	135	6944	97	42*	35	
	Chloroethane	6940	2300	6558	84	6978	101	19	35	
	Methylene chloride	6940	17008	2200	96	6669	96	1	35	
									35	
									35	
	1,1-Dichloroethene	6940	12000	7242	104	6521	94	12	35	
	1,1-Dichloroethane	6940	12000	8565	123	7057	103	19	35	
	trans-1,2-Dichloroethene	6940	12000	9284	135	6321	91	38*	35	
	Chloroform	6940	12000	8513	126	7334	106	12	36	
	1,2-Dichloroethane	6940	12000	6291	76	5918	91	6	35	
	Trichlorofluoromethane	6940	12000	7219	104	7634	110	6	35	
	1,1,1-Trichloroethane	6940	12000	9275	135	10000	144	7	35	
	Carbon tetrachloride	6940	12000	9076	131	12000	35	43*	35	
									35	
	Bromodichloromethane	6940	12000	9176	132	8513	123	9	35	
	1,2-Dichloropropane	6940	12000	9245	133	11481	207	44*	35	
	trans-1,3-Dichloropropene	6940	12000	9310	134	6742	97	32*	35	
	Trichloroethene	6940	12000	7205	104	5600	121	17	35	
	Dibromochloromethane	6940	12000	8671	125	8600	124	1	35	
	1,1,2-Trichloroethane	6940	12000	6928	100	7000	101	1	35	
	Benzene	6940	530BJ	8956	77	6214	90	36*	35	
	cis-1,3-Dichloropropene	6940	12000	3838	55	6000	87	44*	35	
	2-Chloroethylvinylether	6940	2000	5,5 E	81	3201	46	17	35	
	Bromoform	6940	12000	7009	101	9000	130	25*	35	
									35	
									35	
	Tetrachloroethene	6940	12000	8600	124	9253	133	7	35	
	1,1,2,2-Tetrachloroethane	6940	12000	7131	103	6647	96	7	35	
	Toluene	6940	600J	5460	123	8400	121	1	35	
	Chlorobenzene	6940	12000	8263	119	9000	130	7	35	
	Ethylbenzene	6940	12000	8011	116	9324	134	31*	35	
	m-Dichlorobenzene	6940	12000	6000	87	7800	112	26*	35	
	o-Dichlorobenzene	6940	12000	6200	89	9000	130	37*	35	
	p-Dichlorobenzene	6940	12000	6200	89	9000	130	37*	35	

Comments:

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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab Number 759889

Sample I.D. Sample #GW1 QC Spike

Factor: 500

Scan #	C.A.S. Number		% Recovery	C.A.S. Number		ug/l	Scan #
	65-75-9	N-Nitrosodimethylamine	124	83-32-9	Acenaphthene	61	
	108-95-2	Phenol	119*	51-28-5	2,4-Dinitrophenol	18	
	111-44-4	bis(2-Chloroethyl)ether	88	100-02-7	4-Nitrophenol	33	
	95-57-8	2-Chloropheonol	85	121-14-2	2,4-Dinitrotoluene	84	
	541-73-1	1,3-Dichlorobenzene	55	606-20-2	2,6-Dinitrotoluene	22*	
	106-46-7	1,4-Dichlorobenzene	148	84-66-2	Diethylphthalate	37	
	95-50-1	1,2-Dichlorobenzene	104	7005-72-3	4-Chlorophenyl-phenylether	20*	
	39638329	bis(2-chloroisopropyl)ether	100	86-73-7	Fluorene	73	
	621-64-7	N-Nitroso-di-n-propylamine	71	534-52-1	4,6-Dinitro-2-Methylphenol	29	
	67-72-1	Hexachloroethane	52	86-30-6	N-Nitrososdiphenylamine 1)	141*	
	98-95-3	Nitrobenzene	122				
	78-59-1	Isophorone	19*	101-55-3	4-Bromophenyl-phenylether	32*	
	88-75-5	2-Nitrophenol	75	118-74-1	Hexachlorobenzene	29	
	105-67-9	2,4-Dimethylphenol	63	87-86-5	Pentachlorophenol	52	
				85-01-8	Phenanthrene	117	
	111-91-1	bis(2-Chloroethoxy)Methane	77	120-12-7	Anthracene	48	
	120-83-2	2,4-Dichlorophenol	53	84-74-2	Di-n-Butylphthalate	87	
	120-82-1	1,2,4-Trichlorobenzene	64	206-44-0	Fluoranthene	99	
	91-20-3	Naphthalene	105	129-00-0	Pyrene	104	
	87-68-3	Hexachlorobutadiene	11*	85-68-7	Butylbenzylphthalate	110	
	59-50-7	4-Chloro-3-methylphenol	43	91-94-1	3,3'-Dichlorobenzidine	25	
				56-55-3	Benzo(a)Anthracene	110	
	77-47-4	Hexachlorocyclopentadiene	12	117-81-7	bis(2-Ethylhexyl)Phthalate	217*	
	88-06-2	2,4,6-Trichlorophenol	58	218-01-9	Chrysene	114	
				117-84-0	Di-n-Octyl Phthalate	131	
	91-58-7	2-Chloronaphthalene	35*	205-99-2	Benzo(b)Fluoranthene	148	
				207-08-9	Benzo(k)Fluoranthene	108	
	131-11-3	Dimethyl Phthalate	29	50-32-8	Benzo(a)Pyrene	110	
	208-96-8	Acenaphthylene	40	193-39-5	Indeno(1,2,3-cd)Pyrene	146	
				53-70-3	Dibenzo(a,h)Anthracene	112	
				191-24-2	Benzo(g,h,i)Perylene	118	
				92-87-5	Benzidine	34	

(1) - Cannot be separated from diphenylamine

* Compound failed to meet method required recovery limits.

Date Reported: 9/18/87

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* *
* *
****

S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
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Method Blank Summary

File ID	Date of Analysis	Scan	Matrix	Conc. Level	Inst. ID	C.A.S. Number	Compound (HSL,TIC,or Unknown)	Conc	Units	CRDL
PU7414	8/26/87	90	H2O	Low	OWA#1	75092	Methylene Chloride	13	ug/l	5U
"	"	503	"	"	"	108883	Toluene	2J	"	5U
"	"	8	"	"	"	---	Unknown	550J	"	--
"	"	645	"	"	"	541059	Hexamethylcyclotri-siloxane	300J	"	--
PU7432	8/28/87	29	"	"	"	74873	Chloromethane	13	"	10U
"	"	96	"	"	"	75092	Methylene Chloride	4J	"	5U
"	"	343	"	"	"	71432	Benzene	2J	"	5U
"	"	"	"	"	"	124389	Carbon dioxide	540J	"	--
"	"	694	"	"	"	541059	Hexamethylcyclotri-siloxane	18J	"	--

Comments : _____

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Method Blank Summary

File ID	Date of Analysis	Fraction	Matrix	Scan	Inst. ID	C.A.S. Number	Compound (HSL,TIC,or Unknown)	Conc	Units	CRDL
P3386	9/09/87	BNA	H20	1515	HP#2	117817	Bis(2-ethylhexyl)-phthalate	4J	ug/l	10
P3396	9/10/87	BNA	H20	1514	HP#2	117817	Bis(2-ethylhexyl)-phthalate	20	"	10
P3396	9/10/87	BNA	H20	939	HP#2	74381401	2-Methyl-(1,1-dimethylethyl)-2-methyl-propanediyl-propanoate	32J		--

Comments :_____

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Method Blank Summary

File ID	Date of Analysis	Fraction	Matrix	Conc. Level	Inst. ID	C.A.S. Number	Compound (HSL,TIC,or Unknown)	Conc	Units	CRDL
Meth Blk180	9/10/87	Pest	H20	Low	Trac 550		No Unknowns found	0.4U	ug/l	

Comments : _____

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GC/MS TUNING AND MASS CALIBRATION
Bromofluorobenzene (BFB)
for Initial Calibration

Laboratory H2M Instrument I.D. OWA#1 Date 08/28/87
Time: 8:53 Lab I.D. PU7430

m/e	Ion Abundance Criteria	% Rel. Abundance
50	15.0 - 40.0% of the base peak	26.7
75	30.0 - 60.0% of the base peak	51.2
95	Base peak, 100% relative abundance	100
96	5.0 -9.0% of the base peak	7.2
173	Less than 1.0% of the base peak	0
174	Greater than 50.0% of the base peak	59.6
175	5.0 - 9.0% of mass 174	4.0 (6.7) 1
176	Greater than 95.0%, but less than 101.0% of mass 174	56.9 (95.5) 1
177	5.0 - 9.0% of mass 176	4.0 (7.0) 2

1 - Value in parenthesis is % mass 174.
2 - Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS, AND STANDARDS.

Sample I.D.	Lab I.D.	Date Analyzed	Time of Analysis
Standard	PU7431	8/28/87	9:33
Instr. Blk	PU7432	8/28/87	10:47
#GW1MS	PU7433	8/28/87	11:46
#GW1MSD	PU7434	8/28/87	12:53
Soil #1	PU7435	8/28/87	13:59
Soil #1MS	PU7436	8/28/87	14:54
Soil #1MSD	PU7437	8/28/87	15:47
Soil #2	PU7438	8/28/87	17:04
Soil #3	PU7439	8/28/87	18:02
Soil #4	PU7440	8/28/87	19:03
Soil #5	PU7441	8/28/87	19:59

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GC/MS TUNING AND MASS CALIBRATION
Bromofluorobenzene (BFB)
for Initial Calibration

Laboratory H2M Instrument I.D. OWA#1 Date 08/28/87
Time: 16:59 Lab I.D. PU7412

m/e	Ion Abundance Criteria	% Rel. Abundance
50	15.0 - 40.0% of the base peak	25.8
75	30.0 - 60.0% of the base peak	46.9
95	Base peak, 100% relative abundance	100
96	5.0 -9.0% of the base peak	6.8
173	Less than 1.0% of the base peak	0.7
174	Greater than 50.0% of the base peak	72.4
175	5.0 - 9.0% of mass 174	5.5 (7.6) [1]
176	Greater than 95.0%, but less than 101.0% of mass 174	70.2 (97.0) [1]
177	5.0 - 9.0% of mass 176	4.0 (5.7) [2]

1 - Value in parenthesis is % mass 174.
2 - Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS, AND STANDARDS.

Sample I.D.	Lab I.D.	Date Analyzed	Time of Analysis
30 ug/l 624	PU7413	8/26/87	17:20
Instr. Blk	PU7414	8/26/87	18:24
#GW1	PU7415	8/26/87	19:31
#SW1	PU7418	8/26/87	23:23
#SW2	PU7419	8/27/87	0:42
Field Blank	PU7420	8/27/87	1:48
Trip Blank	PU7421	8/27/87	2:46

GC/MS TUNING AND MASS CALIBRATION

Decafluorotriphenylphosphine (DFTPP)

Case No. SEMI-VOL. BN Contractor H2M LABS INC. Contract No. BNL 8/87

Instrument ID HP#2 Date / Time 9/10/87 11:47

Lab ID >DF123::B1 Data Release Authorized By: _____

m/z	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	57.14 OK	
68	less than 2.0% of mass 69	0.00 OK	(0.00) #1
69	mass 69 relative abundance	99.57	
70	less than 2.0% of mass 69	0.00 OK	(0.00) #1
127	40.0 - 60.0% of mass 198	46.62 OK	
197	less than 1.0% of mass 198	0.00 OK	
198	base peak, 100% relative abundance	100.00 OK	
199	5.0 - 9.0% of mass 198	5.88 OK	
275	10.0 - 30.0% of mass 198	21.40 OK	
365	greater than 1.00% of mass 198	1.95 OK	
441	present, but less than mass 443	13.47 OK	
442	greater than 40.0% of mass 198	93.69 OK	
443	17.0 - 23.0% of mass 442	18.08 OK	(19.29) #2

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

#1 - Value in parenthesis is % mass 69.
#2 - Value in parenthesis is % mass 442.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
2ul ms 44 50ng	>DF123	9/10/87	11:47
25ug/ml 625 Mix	P3395	9/10/87	14:16
Meth. Blk. 184	P3396	9/10/87	15:39
Soil #1 QC Spike	P3397	9/10/87	16:37
Soil #1	P3399	9/10/87	18:33
Soil #2	P3400	9/10/87	19:30
Soil #3	P3401	9/10/87	20:27
Soil #4	P3402	9/10/87	22:21

GC/MS TUNING AND MASS CALIBRATION

Decafluorotriphenylphosphine (DFTPP)

Case No. SEMI-VOL. BN Contractor H2M LABS INC. Contract No. BNL 8/87

Instrument ID HP#2 Date / Time 9/09/87 10:46

Lab ID >DF122::B1 Data Release Authorized By: JM Adam

m/z	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	51.00 OK	
68	less than 2.0% of mass 69	0.00 OK	(0.00) #1
69	mass 69 relative abundance	80.39	
70	less than 2.0% of mass 69	0.00 OK	(0.00) #1
127	40.0 - 60.0% of mass 198	40.58 OK	
197	less than 1.0% of mass 198	0.00 OK	
198	base peak, 100% relative abundance	100.00 OK	
199	5.0 - 9.0% of mass 198	6.28 OK	
275	10.0 - 30.0% of mass 198	21.62 OK	
365	greater than 1.00% of mass 198	1.75 OK	
441	present, but less than mass 443	13.79 OK	
442	greater than 40.0% of mass 198	96.18 OK	
443	17.0 - 23.0% of mass 442	18.32 OK	(19.04) #2

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

#1 - Value in parenthesis is % mass 69.
#2 - Value in parenthesis is % mass 442.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
2ul ms 44	>DF122	9/09/87	10:46
25ug/ml 625 Mix	P3382	9/9/87	12:12
40ug/ml "	P3383	9/9/87	13:09
10ug/ml "	P3384	9/9/87	14:05
25ug/ml Cal Check	P3385	9/9/87	15:18
Meth. Blk. 180	P3386	9/9/87	16:19
#GW1 MS	P3387	9/9/87	17:16
#GW1 MSD	P3388	9/9/87	18:13
#GW1	P3389	9/9/87	19:10
#SW1	P3390	9/9/87	20:06
#SW2	P3391	9/9/87	21:03
Field Blank	P3392	9/9/87	22:00

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RECOVERY OF STANDARD THROUGH ALUMINA COLUMN

COMPOUND	CONC. SPIKE ADDED ug/l	AREA ug/l	RF ug/l	CONC. ug/l	% REC ug/l	RPD	QC LIMITS %RECOVERY
Aldrin	100	52885	258.1	102	102		42-122
a-BHC	100	32059	203.2	79	79		37-134
b-BHC	100	19843	92.6	107	107		17-147
S-BHC	100	39243	125.9	155	155*		19-140
Lindane	100	32565	230.1	71	71		32-127
4,4'-DDD	500	267560	135.9	984	197*		31-141
4,4'-DDE	100	93732	214.7	218	218*		30-145
4,4'-DDT	500	212668	100.9	1054	211*		25-160
Dieldrin	100	73380	262.8	140	140		36-146
Endosulfan I	100	10848	255.5	21	21*		45-153
Endosulfan II	100	53512	204.6	131	131		D-202
Endrin	500	292843	161.3	908	182*		30-147
Heptachlor	100	36161	245.8	74	74		34-111
Heptachlor Epoxide	100	65752	224.3	147	147*		37-142

RECOVERY: PEST 7 OUT OF 14 ; OUTSIDE QC LIMITS.

COMMENTS: ** NOT RECOVERED.

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Water Surrogate Percent Recovery Summary

Sample Number	Toluene d-8 61-117	Bromoflu-obenzene 78-121	1,2-Di-chloro-ethane-d4 23-120	Nitrobe-nzene-d5 38-115	2 Fluo-robi phenol 18-137	Terphen-yl d-14 24-113	(1) Phenol d-5 25-121	2-Fluoro phenol 19-122	2,4,6-tribromo-phenol 20-150	Dibutyl chlor-endate 24-154
SW-2										97
Fd. Blk										410*
SW-1										162*
Meth.Bk										205*
GW-1										225*
GW-1MS										134
GW-1MSD										150
Meth.Bk										1190*

*Values are outside of contract required QC limits
** Advisory limits only

Volatiles: out of ; outside QC limits
Semi-Volatiles: out of ; outside QC limits
Pesticides: 5 out of 8 ; outside QC limits

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Soil Surrogate Percent Recovery Summary

Sample Number	Toluene d-8 61-117	Bromoflu-obenzene 74-121	1,2-Di-chloro-ethane-d4 70-121	Nitrobe-nzene-d5 23-120	2 Fluo-robi phenol 30-115	Terphen-yl d-14 18-134	(1) Phenol d-5 24-113	2-Fluoro phenol 25-121	2,4,6-tribromo-phenol 19-122	Dibutyl chlor-endate 20-150
Soil 1										132
Soil 2										128
Soil 3										133
Soil 4										106
Soil 5										205*
Soil 1MS										142
Soil 1 MSD										93

Values are outside of contract required QC limits
** Advisory limits only

Volatiles: out of ; outside QC limits
Semi-Volatiles: out of ; outside QC limits
Pesticides: 1 out of 7 ; outside QC limits

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY
FOR SOIL SAMPLE

COMPOUND	CONC. SPIKE ADDED ug/kg	SAMPLE RESULTS ug/kg	CONC. MS ug/kg	% REC.	CONC. MSD ug/kg	% REC.	RPD	QC LIMITS %RECOVERY
Aldrin	39.4	85U	27.9	71	16.9	43	50	42-122
-BHC	39.4	85U	43.6	111	30.9	78	35	37-134
-BHC	39.4	85U	47.4	120	26.3	67	35	17-147
-BHC	39.4	85U	NR**	-	NR**	-	-	19-140
Lindane	39.4	85U	15.3	39	9.9	25*	49	32-127
4,4'-DDD	197	170U	152.1	77	207.3	105	37	31-141
4,4'-DDE	39.4	170U	82.8	210*	54	137	49	30-145
4,4'-DDT	197	170U	469.1	238*	272	138	53	25-160
Dieldrin	39.4	170U	76.9	195*	50.9	129	41	36-146
Endosulfan I	39.4	85U	264.6	672*	55.8	142	78	45-153
Endosulfan II	39.4	170U	37.5	95	25.9	66	38	D-202
Endrin	197	170U	250.4	127	177	89	34	30-147
Heptachlor	39.4	85U	36.6	93	31.8	81	14	34-111
Heptachlor Epoxide	39.4	85U	59.8	152*	37.8	96	45	37-142

RECOVERY: PEST 8 OUT OF 26 ;
OUTSIDE QC LIMITS.

COMMENTS: ** NOT RECOVERED.

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY
FOR WATER SAMPLE

COMPOUND	CONC. SPIKE ADDED ug/l	SAMPLE RESULTS ug/l	CONC. MS ug/l	% REC.	CONC. MSD ug/l	% REC.	RPD	QC LIMITS %RECOVERY
Aldrin	100	0.20U	110	110	120	120	8.7	42-122
a-BHC	100	0.20U	118	118	132	132	11.2	37-134
b-BHC	100	0.20U	117	117	133	133	12.8	17-147
-BHC	100	0.20U	180	180*	205	205*	12.9	19-140
Lindane	100	0.20U	93	93	108	108	15	32-127
4,4'-DDD	500	0.40U	708	142*	808	162*	13	31-141
4,4'-DDE	100	0.40U	158	158*	176	176*	10.8	30-145
4,4'-DDT	500	0.40U	588	118	708	142	18.5	25-160
Dieldrin	100	0.40U	116	116	130	130	11.4	36-146
Endosulfan I	100	0.20U	62	62	94	94	41	45-153
Endosulfan II	100	0.40U	945	94	107	107	13	D-202
Endrin	500	0.40U	741	148*	815	163*	9.7	30-147
Heptachlor	100	0.20U	87	87	100	100	13.8	34-111
Heptachlor Epoxide	100	0.20U	152	152*	168	168*	10	37-142

RECOVERY: PEST 10 OUT OF 28 ;
OUTSIDE QC LIMITS.

COMMENTS: ** NOT RECOVERED.

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Method Blank Summary

File ID	Date of Analysis	Fraction	Matrix	Conc. Level	Inst. No.	C.A.S. Number	Compound (HSL,TIC,or Unknown)	Conc	Units	CRDL
Method Blk.180	9/10/87	PEST	H20	Low	Tracor 550		No Unknowns found	0.4U	ug/l	
Method Blk.182	"	"	"	"	"		" " " "	"	"	

Comments : _____

Form II A

Q. C. Report No. _____

INITIAL AND CONTINUING CALIBRATION VERIFICATION[3]

LAB NAME H2M LABS INC CASE NO. N.J. TRANSIT

SOW NO. _____

DATE 9-11-87 UNITS: ug/L

Compound	Initial Calib.[1]			Continuing Calibration[2]					
Metals:	True Value	Found	%R	True Value	Found	%R	Found	%R	Method[4]
1. Aluminum									
2. Antimony	80	86	108	80	83	104	84	105	F
3. Arsenic	50	48	96	50	48.5	97	50	100	F
4. Barium									
5. Beryllium	2340	2300	98	2340	2270	97			A
6. Cadmium	2000	2020	101	2000	2050	103			A
7. Calcium									
8. Chromium	2000	1980	99	2000	1980	99			A
9. Cobalt									
10. Copper	2,000	1980	99	2.00	1.980	99			A
11. Iron									
12. Lead	1000	960	96	1000	950	95	930	93	A
13. Lead	50	50	100	50	54	108			F
14. Manganese									
15. Mercury	5.0	5.0	100	5.0	5.0	100			CO-VAPOR
16. Nickel	2,000	1900	95	2000	1890	95			A
17. Potassium									
18. Selenium	50	53	106	50	50	100	52	104	F
19. Silver	2000	1980	99	2000	1970	99			A
20. Sodium									
21. Thallium	20	20	100	20	20	100	21.0	105	F
22. Vanadium									
23. Zinc	2000	1990	100	2000	1950	98			A
Other: PHENOL	20	20	100	20	19	95			colorimetric
Cyanide	40	37	93	5	5.5	110			colorimetric

[1] Initial Calibration Source FISHER [2] Continuing Calibration Source LEEMAN LABS

[3] Control Limits: Mercury and Tin 80-120; Other Metals 90-110; Cyanide 85-115

[4] Indicate Analytical Method Used: P - ICP; A - Flame AA; F - Furnace AA

Form II B

Q. C. Report No. _____

CONTINUING CALIBRATION VERIFICATION[3]

LAB NAME H2M LABS INC CASE NO. NJ. Transit

SOW NO. _____

DATE 9/11/87 UNITS: ug/L

Compound	Initial Calib.[1]			Continuing Calibration[2]					
Metals:	True Value	Found	%R	True Value	Found	%R	Found	%R	Method[4]
1. Aluminum									
2. Antimony									
3. Arsenic	50	48.5	97	50	49	98	49	98	F
4. Barium									
5. Beryllium									
6. Cadmium									
7. Calcium									
8. Chromium									
9. Cobalt									
10. Copper									
11. Iron									
12. Lead									
13. Magnesium									
14. Manganese									
15. Mercury									
16. Nickel									
17. Potassium									
18. Selenium	50	45	90	50	47	94	49	98	F
19. Silver									
20. Sodium									
21. Thallium									
22. Vanadium									
23. Zinc									
Other: _____									
Cyanide									

[1] Initial Calibration Source _____ [2] Continuing Calibration Source _____

[3] Control Limits: Mercury and Tin 80-120; Other Metals 90-110; Cyanide 85-115

[4] Indicate Analytical Method Used: P - ICP; A - Flame AA; F - Furnace AA

Form IIC

Q. C. Report No. _____

INITIAL AND CONTINUING CALIBRATION VERIFICATION[3]

LAB NAME H2M LABS INC CASE NO. NJ Transit

SOW NO. _____

DATE 9-11-87 UNITS: ug/L

Compound	Initial Calib.[1]			Continuing Calibration[2]					
Metals:	True Value	Found	%R	True Value	Found	%R	Found	%R	Method[4]
1. Aluminum									
2. Antimony									
3. Arsenic	50	49.5	99						F
4. Barium									
5. Beryllium									
6. Cadmium									
7. Calcium									
8. Chromium									
9. Cobalt									
10. Copper									
11. Iron									
12. Lead									
13. Magnesium									
14. Manganese									
15. Mercury									
16. Nickel									
17. Potassium									
18. Selenium									
19. Silver									
20. Sodium									
21. Thallium									
22. Vanadium									
23. Zinc									
Other: _____									
Cyanide									

[1] Initial Calibration Source _____ [2] Continuing Calibration Source _____

[3] Control Limits: Mercury and Tin 80-120; Other Metals 90-110; Cyanide 85-115

[4] Indicate Analytical Method Used: P - ICP; A - Flame AA; F - Furnace AA

A3

Form III

Q. C. Report No. _____

BLANKS

LAB NAME H2M Labs INC. CASE NO. N.J. Transit

DATE 9/11/87 UNITS ug/l

Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank Matrix: Flame 1	Matrix: Furnace 2
Metals:							
1. Aluminum							
2. Antimony	<60	(9)	ALL	<60		(9) ALL <60	
3. Arsenic	<10	(15)	ALL	<10		(15) ALL <10	
4. Barium							
5. Beryllium	<5	<5				<5	<5
6. Cadmium	<5	<5				<5	<5
7. Calcium							
8. Chromium	<10	<10				<10	<10
9. Cobalt							
10. Copper	<20	<20				<20	<20
11. Iron							
12. Lead	<100	<100	<100			<100	<100
13. Lead	<5	(5)	all	<5		(5) all <5	
14. Manganese							
15. Mercury	<0.2	<0.2	<0.2			NR	
16. Nickel	<40	<40				<40	<40
17. Potassium							
18. Selenium	<5	(10)	all	<5		(10) all <5	
19. Silver	<10	<10				<10	<10
20. Sodium							
21. Thallium	<10	(9)	ALL	<10		(9) ALL <10	
22. Vanadium							
23. Zinc	<20	<20				<20	<20
Other: PHENOL	<1					NR	
Cyanide	<10					NR	

[1] Reporting Units: aqueous, ug/L; solid mg/kg

Form VI

Q. C. Report No. _____

DUPLICATES

LAB NAME H2M LABS INC

CASE NO. NJ TRANSIT

DATE 9-11-87

~~EPA~~ Sample No. BSA 0819785

Lab Sample ID No. 759871

Units ug/L

Matrix SOIL

Compound	Control Limit[1]	Sample(S)	Duplicate(D)	RPD[2]	
Metals:					
1. Aluminum					
2. Antimony	±60 *	<60	<60	NC	
3. Arsenic	±100 *	<100	<100	NC	
4. Barium					
5. Beryllium	±5	8	8	0	
6. Cadmium	±20%	69	70	1.4	
7. Calcium					
8. Chromium	±20%	420	410	2.4	
9. Cobalt					
10. Copper	±25	800	800	0	
11. Iron					
12. Lead	±20%	2500	2500	0	
13. Magnesium					
14. Manganese					
15. Mercury	±20%	2.7	2.1	25	*
16. Nickel	±40	130	130	0	
17. Potassium					
18. Selenium	±5	<5	<5	NC	
19. Silver	±20%	120	120	0	
20. Sodium					
21. Thallium	±10 *	<10	<10	NC	
22. Vanadium					
23. Zinc	±20%	2980	2870	3.8	
Other: PHENOL	±20%	9	9	0	
Cyanide	±10	<10	<10	NC	

* Out of Control

[1] To be added at a later date.

[2] RPD = [|S - D|/((S + D)/2)] x 100

NC - Non calculable RPD due to value(s) less than CRDL

Form V

Q. C. Report No. _____

SPIKE SAMPLE RECOVERY

LAB NAME H2M Labs INC

DATE 9-11-87

CASE NO. NJ Transit

~~EPA~~ Sample No. BSA081975S

Lab Sample ID No. 759871

Units ug/L

Matrix SOIL

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]	
Metals:						
1. Aluminum	75-125					
2. Antimony	"	120	<60	100	120	
3. Arsenic	"	*			NC	
4. Barium	"					
5. Beryllium	"	52	8	50	88	
6. Cadmium	"	112	69	50	86	
7. Calcium	"					
8. Chromium	"	580	420	100	170	"N"
9. Cobalt	"					
10. Copper	"	1100	800	250	120	"N"
11. Iron	"					
12. Lead	"	3000	2500	500	100	
13. Magnesium	"					
14. Manganese	"					
15. Mercury	"	2.8	2.7	1.0	10	"N"
16. Nickel	"	520	130	400	97	
17. Potassium	"					
18. Selenium	"	10	<5	20	50	"N"
19. Silver	"	850	120	100	730	"N"
20. Sodium	"					
21. Thallium	"	27	<10	50	54	"N"
22. Vanadium	"					
23. Zinc	"	3420	2980	200	220	"N"
Other: PHENOL		28	9	20	95	
Cyanide	"	17.2	<10	20	86	

[1] %R = [(SSR - SR)/SA] x 100

"N" - out of control

"NR" - Not required

Comments: * SEE CASE NARRATIVE

4b

Form V

Q. C. Report No. _____

SPIKE SAMPLE RECOVERY

LAB NAME H2M Labs INC

DATE 9-11-87

CASE NO. NJ Transit

~~EPA~~ Sample No. BSA08197890

Lab Sample ID No. 759891

Units ug/l

Matrix liquid

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]	
Metals:						
1. Aluminum	75-125					
2. Antimony	"	49	<60	100	49	"N"
3. Arsenic	* "				NC	
4. Barium	"					
5. Beryllium	"	77	30	50	90	
6. Cadmium	"	377	367	50	20	"N"
7. Calcium	"					
8. Chromium	"	920	870	100	50	"N"
9. Cobalt	"					
10. Copper	"	3190	3020	250	76	
11. Iron	"					
12. Lead	"	3300	2800	500	100	
13. Magnesium	"					
14. Manganese	"					
15. Mercury	"	0.4	<0.2	1.0	40	"N"
16. Nickel	"	780	480	400	75	
17. Potassium	"					
18. Selenium	* "				NC	
19. Silver	"	110	<10	100	110	
20. Sodium	"					
21. Thallium	"	*			NC	
22. Vanadium	"					
23. Zinc *	"	OVERCAL			NC	
Other: PHENOL		59	40	20	95	
Cyanide	"	17.0	<10	20	85	

[1] %R = [(SSR - SR)/SA] x 100

"N" - out of control

"NR" - Not required

Comments: * SEE CASE NARRATIVE

47

Form VI

Q. C. Report No. _____

DUPLICATES

LAB NAME H2M LABS INC

DATE 9-11-87

CASE NO. NJ TRANSIT
EPA Sample No. BSA081977890
Lab Sample ID No. ~~759891~~
Units ug/L

Matrix LIQUID

Compound	Control Limit[1]	Sample(S)	Duplicate(D)	RPD[2]
Metals:				
1. Aluminum				
2. Antimony	±60 *	<60	<60	NC
3. Arsenic	±20%	480	500	4.0
4. Barium				
5. Beryllium	±20%	30	31	3.2
6. Cadmium	±20%	367	367	0
7. Calcium				
8. Chromium	±20%			
9. Cobalt				
10. Copper	±20%	3000	3000	0.6
11. Iron				
12. Lead	±20%	2800	2800	0
13. Magnesium				
14. Manganese				
15. Mercury	±0.2	<0.2	<0.2	NC
16. Nickel	±20%	480	490	2.0
17. Potassium				
18. Selenium	±50	<50	<50	NC
19. Silver	±10	<10	<10	NC
20. Sodium				
21. Thallium	±100 *	<100	<100	NC
22. Vanadium				
23. Zinc	±20%	93000	93000	0
Other: PHENOL	±20%	40	42	4.9
Cyanide	±10	<10	<10	NC

* Out of Control

[1] To be added at a later date.

[2] RPD = [|S - D|/((S + D)/2)] x 100

NC - Non calculable RPD due to value(s) less than CRDL

AK

Form VII

Q.C. Report No. _____

INSTRUMENT DETECTION LIMITS AND

LABORATORY CONTROL SAMPLE

LAB NAME H2M LABS INC CASE NO. _____ DATE 9-11-87

LCS NO. _____

Compound	Required Detection Limits (CRDL)-ug/l	Instrument Detection Limits (IDL)-ug/l ICP/AA ID# E2380	Instrument Detection Limits (IDL)-ug/l Furnace ID# PE5000	Lab Control Sample (ug/L) mg/kg (circle one) True	Found	%R
Metals:						
1. Aluminum	200					
2. Antimony	60		10	80	86	108
3. Arsenic	10		5	50	50.5	101
4. Barium	200					
5. Beryllium	5	5		2340	2300	98
6. Cadmium	5	5		2000	2050	103
7. Calcium	5000					
8. Chromium	10	10		2000	1970	99
9. Cobalt	50					
10. Copper	25	20		2000	1950	98
11. Iron	100	20				
12. Lead	5		5	50	50	100
13. ~~Magnesium~~ Lead	~~5000~~ 100	20		1000	950	95
14. Manganese	15					
15. Mercury	0.2	0.2		5	5	100
16. Nickel	40	40		2000	2010	100
17. Potassium	5000					
18. Selenium	5		5	50	53	106
19. Silver	10	10		2000	1950	98
20. Sodium	5000					
21. Thallium	10		10	20	20	106
22. Vanadium	50					
23. Zinc	20	20		2000	1890	95
Other:						
Cyanide	10	NR	NR			

NR - Not required

Form VIII

Q.C. Report No. _____

STANDARD ADDITION RESULTS

LAB NAME H2M LABS INC CASE NO. NJ Transit

DATE 9-11-87 UNITS: ug/L

EPA Sample #	Element	Matrix	0 ADD ABS.	1 ADD CON.	1 ADD ABS.[2]	2 ADD CON.	2 ADD ABS.[2]	3 ADD CON.	3 ADD ABS.[2]	FINAL CON.[3]	r*
760875	As	MS	44	10	92	20	148	30	195	85	.999
760879	As	MS	53	10	99	20	147	30	197	108	.998
760887	As	MS	152	10	206	20	244	30	292	338	.998

[1] Matrix abbreviations: Low Solid, LS; Medium Solid, MS; Low Aqueous, LA; Medium Aqueous, MA.

[2] CON is the concentration added, ABS. is the instrument readout in absorbance or concentration.

[3] Concentration as determined by MSA

*"r" is the correlation coefficient.

+ - correlation coefficient is outside of control window of 0.995.

Form X

QC Report No. _____

HOLDING TIMES

LAB NAME H2M LABS INC

DATE 9-22-87 CASE NO. N.J. TRANSIT

EPA Sample No.	Matrix	Date Received	Mercury Prep Date	Mercury Holding Time[1] (Days)	CN Prep Date	CN Holding Time[1] (Days)
759871	MS	8-20-87	8-26-87	(6)	8-27-87	(7)
875						
879						
883						
887	↓					
891	MA					
895	LA					
899	LA					
↓ 903	LA	↓	↓	↓	↓	↓

[1]Holding time is defined as number of days between the date received and the sample preparation date.

CLP Inorganic Form XI (Quarterly)

INSTRUMENT DETECTION LIMITS

LAB NAME H2M LAB INC. (ICP/Flame AA) (Circle One) Model No. ARL 3410

DATE 8-19-87 Furnace AA No. PE 5000

Element	Wavelength (nm)	CRDL (µg/L)	IDL (µg/L)	Element	Wavelength (nm)	CRDL (µg/L)	IDL (µg/L)	
1. Aluminum	396.152	200		13. Magnesium	279.079	5000		
2. Antimony	206.833	60	24 P	14. Manganese	257.610	15	1.9	P
3. Arsenic	193.70	10	66 P	15. Mercury	253.9	0.2	0.2	CV
4. Barium	455.403	200	1 P	16. Nickel	231.604	40	4	P
5. Beryllium	234.861	5	0.6P	17. Potassium	766.491	5000		
6. Cadmium	214.438	5	0.7P	18. Selenium	196.0	5	48	P 5F
7. Calcium	422.693	5000		19. Silver	328.068	10	7.6	
8. Chromium	205.552	10	3 P	20. Sodium	588.995	5000		
9. Cobalt	237.862	50		21. Thallium	276.8	10	5	F
10. Copper	324.754	25	2.5P	22. Vanadium	292.402	40		
11. Iron	259.940	100	3 P	23. Zinc	213.856	50	2	P
12. Lead	283.3	5	5 P	24. LEAD	238.3	100	20	A

Footnotes:

- Indicate the instrument for which the IDL applies with a P (for ICP) "A" (for Flame AA) or a "F" (for Furnace AA) behind the IDL value.
- Indicate elements commonly run with background correction (AA) with a B behind the analytical wavelength.
- If more than one ICP/Flame or Furnace AA is used, submit separate Forms XI-XIII for each instrument.

Comments: Arsenic Sugle F

Lab Manager Joniene Hee

H2M LABORATORY

VI. Sample Data Package

1. Reports for scans:

____X____GC/MS Volatiles
____X____GC/MS Extractables
____X____Pesticides/PCB's
_____GC Volatiles
____X____Metals

2. Reporting Packages for Individual Samples

1. Organics
   a. Sample Chromatogram
   b. Quantification Reports/Integrams
   c. Mass Spectral Data
   d. Library Searches

2. Inorganics
   a. Raw Data for Metals

DATA REPORTING QUALIFIERS

For reporting results to the USEPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes 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 for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

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

C - This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >[illegible] ng/ml in the final extract should be confirmed by GC/MS.

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

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

Form I. (continued).

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

Date 9-11-87

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name A2M LABS INC Case No. NJ Transit

SOW No. _____ Q.C. Report No. _____

Sample Numbers

	NJ ~~EPA~~ No.	Lab ID No.		NJ ~~EPA~~ No.	Lab ID No.
SOIL ①	BSA 0819785	759871	MS/MSD	FIELD BLK	759903
②	0819786	759875			
③	0819787	759879			
④	0819788	759883			
⑤	0819789	759887			
GW #1	BSA 0819790	759891	MS/MSD		
SW #1	BSA 0819791	759895			
SW #2	BSA 0819792	759899			

Comments:

Flame AA BACKGROUND CORRECTIONS APPLIED

ICP interelement and background corrections applied? Yes ____ No X.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnotes:

NR - Not required by contract at this time

Form 1:

Value - If the result is a value greater than or equal to the instrument detecion limit but less than the contract-required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (for Flame AA) or F (for Furnace AA).

< - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

S - Indicates value determined by Method of Standard Addition.

N - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

M - Indicates duplicate injection results exceeded control limits.

Indicate method used: P for ICP; A for Flame AA and F for Furnace.

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.

Date 9/11/87

INORGANIC ANALYSIS DATA SHEET

LAB NAME H2M LABS INC
CASE NO. NJ. TRANSIT
SOW NO. _____
Lab Receipt Date 8/20/87
LAB SAMPLE ID. NO. _____
QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low X Medium _____

Matrix: Water X Soil X Sludge _____ Other _____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	13.	Magnesium
2.	Antimony	14.	Manganese
3.	Arsenic	15.	Mercury
4.	Barium	16.	Nickel
5.	Beryllium	17.	Potassium
6.	Cadmium	18.	Selenium
7.	Calcium	19.	Silver
8.	Chromium	20.	Sodium
9.	Cobalt	21.	Thallium
10.	Copper	22.	Vanadium
11.	Iron	23.	Zinc
12.	Lead		Precent Solids (%)

Cyanide _____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: FOR Individual sample results see H2M LABS INC. REPORTS

Lab Manager Joanne Lee

H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759868
Date Collected: 8/19/87 Date Received: 8/20/87
Type: Misc. Collected By: CL 99
Sample I.D.#Soil #1 BSA 0819785

Scan No.	C.A.S. No.		Dry Wt.ug/kg	Scan No.	C.A.S. No.		Dry Wt.ug/kg
28	74-87-3	Chloromethane	26000B		78-87-5	1,2-Dichloropropane	1200U
40	74-83-9	Bromomethane	5600B		10061-02-6	Trans-1,3-Dichloropropene	1200U
	75-01-4	Vinyl Chloride	2300U		79-01-6	Trichloroethane	1200U
	75-00-3	Chloroethane	2300U		124-48-1	Dibromochloromethane	1200U
93	75-09-2	Methylene Chloride	1700B		79-00-5	1,1,2-Trichloroethane	1200U
				344	71-43-2	Benzene	530JB
					10061-01-5	cis-1,3-Dichloropropene	1200U
	75-35-4	1,1-Dichloroethene	1200U		110-75-8	2-Chloroethylvinylether	2300U
	75-34-3	1,1-Dichloroethane	1200U		75-25-2	Bromoform	1200U
	156-60-5	Trans-1,2-Dichloroethene	1200U	472	127-18-4	Tetrachlorethane	1200U
	67-66-3	Chloroform	1200U				
	107-06-2	1,2-Dichloroethane	1200U				
	75-69-4	Trchlorofluormethane	1200U		79-34-5	1,1,2,2-Tetrachloroethane	1200U
	71-55-6	1,1,1-Trichloroethane	1200U	505	108-88-3	Toluene	600J
	56-23-6	Carbon Tetrachloride	1200U		108-90-7	Chlorobenzene	1200U
					100-41-4	Ethylbenzene	1200U
	75-27-4	Bromodichloromethane	1200U		541-73-1	1,3-Dichlorobenzene	1200U
					95-50-1	1,2-Dichlorobenzene	1200U
					106-66-7	1,4-Dichlorobenzene	1200U

Date Reported: 9/17/87

Data Reporting Qualifiers (E = % dev. of cont. cal. exceeds 25%)

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

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

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

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < the specified detection limit but > zero (e.g 10J) If limit of detection is 10 ug/l and a concentration of 3.0 ug/l is calculated, report as 3J.

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

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

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

Optional Flags

N - Compound not present in Calibration File.

S.C. McLendon, P.E.

H2M LABS, INC.
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HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759868
Sample I.D. #Soil #1

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit/Rfit	Scan	(Dry Wt.) Estimated Conc. ug/kg
124389	Carbon dioxide	100 99	10	61000JB
	Unknown		59	2000J
372098	Cyano-acetic acid	97 60	84	2200J
504858	4-Methyl-3-pentenoic acid	85 86	112	5500J
78933	2-Butanone	96 73	228	3600J

Date Reported: 9/16/87

S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab Number 759869
Date Collected: 8/19/87 Date Received: 8/20/87
Sample I.D. Sample #Soil 1 Conc. Factor: 1
Collected By: CL 99

Scan #	C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan #
	65-75-9	N-Nitrosodimethylamine	9800U	83-32-9	Acenaphthene	49000U	
	108-95-2	Phenol	9800U	51-28-5	2,4-Dinitrophenol	49000U	
	111-44-4	bis(2-Chloroethyl) ether	9800U	100-02-7	4-Nitrophenol	49000U	
	95-57-8	2-Chloropheonol	9800U	121-14-2	2,4-Dinitrotoluene	9800U	
	541-73-1	1,3-Dichlorobenzene	9800U	606-20-2	2,6-Dinitrotoluene	9800U	
	106-46-7	1,4-Dichlorobenzene	9800U	84-66-2	Diethylphthalate	1300J	934
	95-50-1	1,2-Dichlorobenzene	9800U	7005-72-3	4-Chlorophenyl-phenylether	9800U	
	39638329	bis(2-chloroisopropyl)ether	9800U	86-73-7	Fluorene	1400J	931
	621-64-7	N-Nitroso-di-n-propylamine	9800U	534-52-1	4,6-Dinitro-2-Methylphenol	49000U	
	67-72-1	Hexachloroethane	9800U	86-30-6	N-Nitrososdiphenylamine 1)	9800U	
	98-95-3	Nitrobenzene	9800U			9800U	
506	78-59-1	Isophorone	5600J	101-55-3	4-Bromophenyl-phenylether	9800U	
	88-75-5	2-Nitrophenol	9800U	118-74-1	Hexachlorobenzene	9800U	
	105-67-9	2,4-Dimethylphenol	9800U	87-86-5	Pentachlorophenol	49000U	
				85-01-8	Phenanthrene	2600J	1075
	111-91-1	bis(2-Chloroethoxy)Methane	9800U	120-12-7	Anthracene	9800U	
	120-83-2	2,4-Dichlorophenol	9800U	84-74-2	Di-n-Butylphthalate	9800U	
	120-82-1	1,2,4-Trichlorobenzene	9800U	206-44-0	Fluoranthene	5300J	1257
	91-20-3	Naphthalene	9800U	129-00-0	Pyrene	5900J	1290
	87-68-3	Hexachlorobutadiene	9800U	85-68-7	Butylbenzylphthalate	1200J	1412
	59-50-7	4-Chloro-3-methylphenol	9800U	91-94-1	3,3'-Dichlorobenzidine	20000U	
				56-55-3	Benzo(a)Anthracene	2900J	1476
	77-47-4	Hexachlorocyclopentadiene	9800U	117-81-7	bis(2-Ethylhexyl)Phthalate	45000B	1510
	88-06-2	2,4,6-Trichlorophenol	9800U	218-01-9	Chrysene	3800J	1481
				117-84-0	Di-n-Octyl Phthalate	1400J	1598
	91-58-7	2-Chloronaphthalene	9800U	205-99-2	Benzo(b)Fluoranthene	3400J	1631
				207-08-9	Benzo(k)Fluoranthene	2300J	1633
	131-11-3	Dimethyl Phthalate	9800U	50-32-8	Benzo(a)Pyrene	2600J	1673
	208-96-8	Acenaphthylene	9800U	193-39-5	Indeno(1,2,3-cd)Pyrene	1800J	1842
				53-70-3	Dibenzo(a,h)Anthracene	9800U	
				191-24-2	Benzo(g,h,i)Perylene	9800U	
				92-87-5	Benzidine	78000U	

(1) - Cannot be separated from diphenylamine

Date Reported: 9/18/87

****
* *
* *
****
S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC. 575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759869
Sample I.D. Soil 1

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit	Scan	Estimated Conc. ug/kg
	Unknown		183	54000J
2471832	1-Ethylidene-1H-indene	70	689	8000J
	Unknown		731	9000J
	Unknown		819	19000J
74645986	2,7,10-Trimethyldodecane	83	830	14000J
	Unknown		860	9000J
	Unknown		902	15000J
	Unknown		942	8000J
630013	Hexacosane	78	1010	11000J
61141728	4,6-Dimethyldodecane	92	1014	37000J
	Unknown		1041	9000J
54833486	2,6,10,15-Tetramethyl-heptadecane	83	1086	16000J
	Unknown		1107	9000J
	Unknown		1134	9000J
54833237	Eicosane	83	1145	15000J
21964493	1,1,3-Tetradecadiane	86	1246	75000J
	Unknown		1758	16000J

Date Reported: 9/18/87

S.C. McLendon, P.E.
Laboratory Director

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New Jersey DEP
65 Prospect St.
Trenton, NJ 08628

Lab No. 759870
Sample No. BSA 0819785 I.D.: Soil 1
Sample I.D. Soil 1
Concentration: Low Dil. Factor: 5.1
Date Coll. 8/19/87 Date Rec. 8/20/87
Date Ext. 8/26/87 Date Anal. 9/11/87
Percent Moisture (Decanted) 41% Sonicator:yes

C.A.S. NUMBER		ug/kg
319-84-6	alpha-BHC	85U
319-87-7	beta-BHC	85U
319-86-8	delta-BHC	85U
58-89-8	gamma-BHC (Lindane)	85U
76-44-8	Heptachlor	85U
309-00-2	Aldrin	85U
1024-57-3	Heptachlor Epoxide	85U
959-98-8	Endosulfan I	85U
60-57-1	Dieldrin	170U
72-55-9	4,4'-DDE	170U
72-20-8	Endrin	170U
33213-65-9	Endosulfan II	170U
72-54-8	4,4'-DDD	170U
1031-07-8	Endosulfan Sulfate	170U
50-29-3	4,4'-DDT	170U
72-43-5	Methoxychlor	850U
53494-70-5	Endrin Ketone	170U
57-74-9	Chlordane	850U
8001-35-2	Toxaphene	1700U
12674-11-2	Aroclor 1016	850U
11104-28-2	Aroclor 1221	850U
11141-16-5	Aroclor 1232	850U
53469-21-9	Aroclor 1242	850U
12672-29-6	Aroclor 1248	850U
11097-69-1	Aroclor 1254	1700U
11096-82-5	Aroclor 1260	1700U

Vi = Volume of extract injected (uL)
Vs = Volume of water extracted (mL)
Vt = Volume of total extract (mL)
Ws = Weight of sample extracted (g)

Vs = Vt = 3 mL Vi = 5 uL Ws = 0.59 g

Date Reported: 9/30/87

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S.C. McLendon, P.E.
Laboratory Director

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New Jersey DEP
65 Prospect Street
Trenton, NJ 08628

Sample Lab No. 759870
Sample I.D. Soil 1

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit	Frac.	Estimated Conc. ug/kg
	No unknowns found		PEST	170U

Date Reported: 9/30/87

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S.C. McLendon, P.E.
Laboratory Director

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Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 759871
PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.

65 PROSPECT ST.

TRENTON, NEW JERSEY 08618

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL 99
DATE COLLECTED - 8/19/87 DATE RECEIVED - 8/20/87

NJDEP SAMPLE #BSA 0819785
NJDEP SAMPLE PONNT ID # SOIL 1

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<10.0	SELENIUM	<0.90 NE
ARSENIC	<17.0	SILVER	20.4 NE
BERYLLIUM	1.40	THALLIUM	<1.70 NE
CADMIUM	12.0	ZINC	510. NE
CHROMIUM	71.0 NE	PHENOLS	0.80
COPPER	140. NE	CYANIDE	<2.00
LEAD	430.	TOTAL SOLIDS	51.0 %
MERCURY	1.20 NE *		
NICKEL	22.0		

All results in mg/kg or % dry weight

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 9/16/87

LABORATORY DIRECTOR

LIABILITY OF H2M LABS, INC. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759872
Date Collected: 8/19/87 Date Received: 8/20/87
Type: Misc. Collected By: CL 99
Sample I.D.#Soil 2 BSA 0819786

Scan No.	C.A.S. No.		Dry Wt.ug/kg	Scan No.	C.A.S. No.		Dry Wt.ug/kg
26	74-87-3	Chloromethane	1200JB		78-87-5	1,2-Dichloropropane	1400U
	74-83-9	Bromomethane	2800B		10061-02-6	Trans-1,3-Dichloropropene	1400U
	75-01-4	Vinyl Chloride	2800U		79-01-6	Trichloroethane	1400U
	75-00-3	Chloroethane	2800U		124-48-1	Dibromochloromethane	1400U
66	75-09-2	Methylene Chloride	5700B		79-00-5	1,1,2-Trichloroethane	1400U
				343	71-43-2	Benzene	820JB
					10061-01-5	cis-1,3-Dichloropropene	1400U
	75-35-4	1,1-Dichloroethene	1400U		110-75-8	2-Chloroethylvinylether	2800U
	75-34-3	1,1-Dichloroethane	1400U		75-25-2	Bromoform	1400U
	156-60-5	Trans-1,2-Dichloroethene	1400U	472	127-18-4	Tetrachlorethane	1100J
	67-66-3	Chloroform	1400U				
	107-06-2	1,2-Dichloroethane	1400U				
	75-69-4	Trchlorofluormethane	1400U		79-34-5	1,1,2,2-Tetrachloroethane	1400U
	71-55-6	1,1,1-Trichloroethane	1400U	507	108-88-3	Toluene	630J
	56-23-6	Carbon Tetrachloride	1400U		108-90-7	Chlorobenzene	1400U
					100-41-4	Ethylbenzene	1400U
	75-27-4	Bromodichloromethane	1400U		541-73-1	1,3-Dichlorobenzene	1400U
					95-50-1	1,2-Dichlorobenzene	1400U
					106-66-7	1,4-Dichlorobenzene	1400U

Date Reported: 9/17/87

Data Reporting Qualifiers (E = % dev. of cont. cal. exceeds 25%)

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

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

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

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < the specified detection limit but > zero (e.g 10J) If limit of detection is 10 ug/l and a concentration of 3.0 ug/l is calculated, report as 3J.

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

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

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

Optional Flags

N - Compound not present in Calibration File.

S.C. McLendon, P.E.

16.

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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618 .

Sample Lab No. 759872
Sample I.D. #Soil 2

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit/Rfit	Scan	Estimated Conc. ug/kg
	Unknown		4	830JB
504858	4-Methyl-3-pentenoic acid	83 61	90	1800J
78933	2-Butanone	96 57	225	2400J

Date Reported: 9/18/87

S.C. McLendon, P.E.
Laboratory Director

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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab Number 759873
Date Collected: 8/19/87 Date Received: 8/20/87
Sample I.D. Sample #Soil 2 Conc. Factor: 1
Collected By: CL 99

Scan #	C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan #
	65-75-9	N-Nitrosodimethylamine	9900U	83-32-9	Acenaphthene	9900U	
	108-95-2	Phenol	9900U	51-28-5	2,4-Dinitrophenol	50000U	
	111-44-4	bis(2-Chloroethyl) ether	9900U	100-02-7	4-Nitrophenol	50000U	
	95-57-8	2-Chloropheonol	9900U	121-14-2	2,4-Dinitrotoluene	9900U	
	541-73-1	1,3-Dichlorobenzene	9900U	606-20-2	2,6-Dinitrotoluene	9900U	
	106-46-7	1,4-Dichlorobenzene	9900U	84-66-2	Diethylphthalate	1600J	933
	95-50-1	1,2-Dichlorobenzene	9900U	7005-72-3	4-Chlorophenyl-phenylether	9900U	
	39638329	bis(2-chloroisopropyl)ether	9900U	86-73-7	Fluorene	9900U	
	621-64-7	N-Nitroso-di-n-propylamine	9900U	534-52-1	4,6-Dinitro-2-Methylphenol	50000U	
	67-72-1	Hexachloroethane	9900U	86-30-6	N-Nitrososdiphenylamine 1)	9900U	
	98-95-3	Nitrobenzene	9900U			9900U	
	78-59-1	Isophorone	9900U	101-55-3	4-Bromophenyl-phenylether	9900U	
	88-75-5	2-Nitrophenol	9900U	118-74-1	Hexachlorobenzene	9900U	
	105-67-9	2,4-Dimethylphenol	9900U	87-86-5	Pentachlorophenol	50000U	
				85-01-8	Phenanthrene	9900U	
	111-91-1	bis(2-Chloroethoxy)Methane	9900U	120-12-7	Anthracene	9900U	
	120-83-2	2,4-Dichlorophenol	9900U	84-74-2	Di-n-Butylphthalate	9900U	
	120-82-1	1,2,4-Trichlorobenzene	9900U	206-44-0	Fluoranthene	1600J	1255
	91-20-3	Naphthalene	9900U	129-00-0	Pyrene	2500J	1288
	87-68-3	Hexachlorobutadiene	9900U	85-68-7	Butylbenzylphthalate	9900U	
	59-50-7	4-Chloro-3-methylphenol	9900U	91-94-1	3,3'-Dichlorobenzidine	19800U	
				56-55-3	Benzo(a)Anthracene	1300J	1472
	77-47-4	Hexachlorocyclopentadiene	9900U	117-81-7	bis(2-Ethylhexyl)Phthalate	53000B	1507
	88-06-2	2,4,6-Trichlorophenol	9900U	218-01-9	Chrysene	1900J	1478
				117-84-0	Di-n-Octyl Phthalate	9900U	
	91-58-7	2-Chloronaphthalene	9900U	205-99-2	Benzo(b)Fluoranthene	1900J	1628
				207-08-9	Benzo(k)Fluoranthene	1100J	1631
	131-11-3	Dimethyl Phthalate	9900U	50-32-8	Benzo(a)Pyrene	9900U	
	208-96-8	Acenaphthylene	9900U	193-39-5	Indeno(1,2,3-cd)Pyrene	9900U	
				53-70-3	Dibenzo(a,h)Anthracene	9900U	
				191-24-2	Benzo(g,h,i)Perylene	9900U	
				92-87-5	Benzidine	79000U	

(1) - Cannot be separated from diphenylamine

Date Reported: 9/18/87

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S.C. McLendon, P.E.
Laboratory Director

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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759873
Sample I.D. Soil 2

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit	Scan	Estimated Conc. ug/kg
54832836	Octahydro-2,2,4,4,7,7-hexamethyl-trans-1H indene	72	803	8000J
54833486	2,6,10,15-Tetramethyl-heptadecane	83	828	16000J
	Unknown		834	9000J
34303816	3-Hexadecane	74	842	7000J
	Unknown		852	8000J
	Unknown		901	9000J
	Unknown		906	6000J
	Unknown		910	13000J
	Unknown		928	5000J
74645980	2,7,10,-Trimethyl-dodecane	89	1013	83000J
630068	Hexatriacontane	60	1045	9000J
	Unknown		1078	9000J
54833486	2,6,10,15-Tetramethyl heptadecane	83	1084	62000J
629629	Pentadecane	83	1139	23000J
	Unknown		1143	5000J
21964498	1,13-Tetradecadiene	89	1244	150000J
	Unknown		1400	5000J
	Unknown		1665J	5000J
	Unknown		1783	35000J

Date Reported: 9/18/87

S.C. McLendon, P.E.
Laboratory Director

67

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New Jersey DEP
65 Prospect St.
Trenton, NJ 08628

Lab No. 759874
Sample No. BSA 0819786
Sample I.D. Soil 2
Concentration: Low Dil. Factor:1.48
Date Coll. 8/19/87 Date Rec. 8/20/87
Date Ext. 8/26/87 Date Anal.9/11,14/87
Percent Moisture (Decanted) 19% Sonicator:yes

C.A.S. NUMBER		ug/kg
319-84-6	alpha-BHC	25U
319-87-7	beta-BHC	25U
319-86-8	delta-BHC	25U
58-89-8	gamma-BHC (Lindane)	25U
76-44-8	Heptachlor	25U
309-00-2	Aldrin	25U
1024-57-3	Heptachlor Epoxide	25U
959-98-8	Endosulfan I	25U
60-57-1	Dieldrin	50U
72-55-9	4,4'-DDE	50U
72-20-8	Endrin	50U
33213-65-9	Endosulfan II	50U
72-54-8	4,4'-DDD	50U
1031-07-8	Endosulfan Sulfate	50U
50-29-3	4,4'-DDT	50U
72-43-5	Methoxychlor	250U
53494-70-5	Endrin Ketone	50U
57-74-9	Chlordane	250U
8001-35-2	Toxaphene	500U
12674-11-2	Aroclor 1016	250U
11104-28-2	Aroclor 1221	250U
11141-16-5	Aroclor 1232	250U
53469-21-9	Aroclor 1242	250U
12672-29-6	Aroclor 1248	250U
11097-69-1	Aroclor 1254	500U
11096-82-5	Aroclor 1260	500U

Vi = Volume of extract injected (uL)
Vs = Volume of water extracted (mL)
Vt = Volume of total extract (mL)
Ws = Weight of sample extracted (g)

Vs = Vt = 3 mL Vi = 5 uL Ws = 2.03 g

Date Reported: 9/30/87

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S.C. McLendon, P.E.
Laboratory Director

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New Jersey DEP
65 Prospect Street
Trenton, NJ 08628

Sample Lab No. 759874
Sample I.D. Soil 2

Tentatively Identified Compounds

C.A.S. Number	Compound Name	Frac.	RT	Estimated Conc. ug/kg
	Unknown	PEST	12.38	150J

Date Reported: 9/30/87

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S.C. McLendon, P.E.
Laboratory Director

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Environmental Testing Laboratories
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LABORATORY REPORT

LAB NO. 759875

PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS	
NEW JERSEY D.E.P. 65 PROSPECT ST. TRENTON, NEW JERSEY 08618	TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL. 99 DATE COLLECTED - 8/19/87 DATE RECEIVED - 8/20/87 NJDEP SAMPLE #BSA 0819786 NJDEP SAMPLE POINT ID #SOIL 2

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<10.0	SELENIUM	<0.90 NE
ARSENIC	10.0 S	SILVER	110. NE
BERYLLIUM	1.10	THALLIUM	<1.70 NE
CADMIUM	7.10	ZINC	110. NE
CHROMIUM	31.0 NE	PHENOLS	0.60
COPPER	90.0 NE	CYANIDE	<1.20
LEAD	100.	TOTAL SOLIDS	81.0 %
MERCURY	0.40 NE		
NICKEL	25.0		

All results in mg/kg or % dry weight

LL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 9/16/87

LABORATORY DIRECTOR

HE LIABILITY OF H2M LABS, INC. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759876
Date Collected: 8/19/87 Date Received: 8/20/87
Type: Misc. Collected By: CL 99
Sample I.D.#Soil 3 BSA 0819787

Scan No.	C.A.S. No.		Dry Wt.ug/kg
23	74-87-3	Chloromethane	54000B
34	74-83-9	Bromomethane	12000
	75-01-4	Vinyl Chloride	3100U
	75-00-3	Chloroethane	3100U
86	75-09-2	Methylene Chloride	45000B
	75-35-4	1,1-Dichloroethene	1600U
	75-34-3	1,1-Dichloroethane	1600U
	156-60-5	Trans-1,2-Dichloroethene	1600U
	67-66-3	Chloroform	1600U
	107-06-2	1,2-Dichloroethane	1600U
	75-69-4	Trchlorofluormethane	1600U
	71-55-6	1,1,1-Trichloroethane	1600U
	56-23-6	Carbon Tetrachloride	1600U
	75-27-4	Bromodichloromethane	1600U

Scan No.	C.A.S. No.		Dry Wt.ug/kg
	78-87-5	1,2-Dichloropropane	1600U
	10061-02-6	Trans-1,3-Dichloropropene	1600U
	79-01-6	Trichloroethane	1600U
	124-48-1	Dibromochloromethane	1600U
	79-00-5	1,1,2-Trichloroethane	1600U
342	71-43-2	Benzene	790JB
	10061-01-5	cis-1,3-Dichloropropene	1600U
	110-75-8	2-Chloroethylvinylether	1600U
	75-25-2	Bromoform	1600U
	127-18-4	Tetrachlorethane	1600U
	79-34-5	1,1,2,2-Tetrachloroethane	1600U
508	108-88-3	Toluene	630JB
	108-90-7	Chlorobenzene	1600U
	100-41-4	Ethylbenzene	1600U
	541-73-1	1,3-Dichlorobenzene	1600U
	95-50-1	1,2-Dichlorobenzene	1600U
	106-66-7	1,4-Dichlorobenzene	1600U

Date Reported: 9/17/87

Data Reporting Qualifiers (E = % dev. of cont. cal. exceeds 25%)

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

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

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

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < the specified detection limit but > zero (e.g 10J) If limit of detection is 10 ug/l and a concentration of 3.0 ug/l is calculated, report as 3J.

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

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

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

Optional Flags

N - Compound not present in Calibration File.

S.C. McLendon, P.E.

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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759876
Sample I.D. #Soil #3

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit/Rfit	Scan	(Dry Wt.) Estimated Conc. ug/kg
124389	Carbon dioxide	100 97	15	950JB
504858	4-Methyl-3-pentenoic acid	85 85	104	14000J
78933	2-Butanone	95 56	224	5100J

Date Reported: 9/16/87

S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab Number 759877
Date Collected: 8/19/87 Date Received: 8/20/87
Sample I.D. Sample #Soil 3 Conc. Factor: 1
Collected By: CL 99

Scan #	C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan #
	65-75-9	N-Nitrosodimethylamine	24000U	83-32-9	Acenaphthene	24000U	
	108-95-2	Phenol	24000U	51-28-5	2,4-Dinitrophenol	120000U	
	111-44-4	bis(2-Chloroethyl)ether	24000U	100-02-7	4-Nitrophenol	120000U	
	95-57-8	2-Chloropheonol	24000U	121-14-2	2,4-Dinitrotoluene	24000U	
	541-73-1	1,3-Dichlorobenzene	24000U	606-20-2	2,6-Dinitrotoluene	24000U	
	106-46-7	1,4-Dichlorobenzene	24000U	84-66-2	Diethylphthalate	2500J	934
	95-50-1	1,2-Dichlorobenzene	24000U	7005-72-3	4-Chlorophenyl-phenylether	24000U	
	39638329	bis(2-chloroisopropyl)ether	24000U	86-73-7	Fluorene	24000U	
	621-64-7	N-Nitroso-di-n-propylamine	24000U	534-52-1	4,6-Dinitro-2-Methylphenol	120000U	
	67-72-1	Hexachloroethane	24000U	86-30-6	N-Nitrososdiphenylamine 1)	24000U	
	98-95-3	Nitrobenzene	24000U				
	78-59-1	Isophorone	24000U	101-55-3	4-Bromophenyl-phenylether	24000U	
	88-75-5	2-Nitrophenol	24000U	118-74-1	Hexachlorobenzene	24000U	
	105-67-9	2,4-Dimethylphenol	24000U	87-86-5	Pentachlorophenol	120000U	
				85-01-8	Phenanthrene	10000J	1076
	111-91-1	bis(2-Chloroethoxy)Methane	24000U	120-12-7	Anthracene	24000U	
	120-83-2	2,4-Dichlorophenol	24000U	84-74-2	Di-n-Butylphthalate	24000U	
	120-82-1	1,2,4-Trichlorobenzene	24000U	206-44-0	Fluoranthene	7100J	1258
	91-20-3	Naphthalene	24000U	129-00-0	Pyrene	9800J	1290
	87-68-3	Hexachlorobutadiene	24000U	85-68-7	Butylbenzylphthalate	24000U	
	59-50-7	4-Chloro-3-methylphenol	24000U	91-94-1	3,3'-Dichlorobenzidine	48000U	
				56-55-3	Benzo(a)Anthracene	24000U	
	77-47-4	Hexachlorocyclopentadiene	24000U	117-81-7	bis(2-Ethylhexyl)Phthalate	32000B	1508
	88-06-2	2,4,6-Trichlorophenol	24000U	218-01-9	Chrysene	5000J	1480
				117-84-0	Di-n-Octyl Phthalate	24000U	
	91-58-7	2-Chloronaphthalene	24000U	205-99-2	Benzo(b)Fluoranthene	4400J	1629
				207-08-9	Benzo(k)Fluoranthene	24000U	
	131-11-3	Dimethyl Phthalate	24000U	50-32-8	Benzo(a)Pyrene	24000U	
	208-96-8	Acenaphthylene	24000U	193-39-5	Indeno(1,2,3-cd)Pyrene	24000U	
				53-70-3	Dibenzo(a,h)Anthracene	24000U	
				191-24-2	Benzo(g,h,i)Perylene	24000U	
				92-87-5	Benzidine	192000U	

(1) - Cannot be separated from diphenylamine

Date Reported: 9/18/87

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J.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759877
Sample I.D. Soil 3

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit	Scan	Estimated Conc. ug/kg
	Unknown		805	60000J
74645980	2,7,10-Trimethyl-dodecane	86	830	100000J
	Unknown		835	31000J
	Unknown		844	41000J
2131422	1,4,6-Trimethyl-napthalene	73	890	36000J
	Unknown		902	63000J
	Unknown		912	51000J
7225641	9-Octylheptadecane	70	1048	72000J
	Unknown		1108	37000J
54833486	2,6,1,15-Tetramethyl-heptadecane	83	1141	165000J
1576676	3,6-Dimethylphenanthrene	71	1229	127000J
3674666	2,5-Dimethylphenanthrene	97	1240	44000J
21964498	1,13-Tetradecadiene	86	1246	230000J
1921706	2,6,10,14-Tetramethyl-pentadecane	70	1286	230000J
17312628	5-Propyldecane	67	1344	35000J
1560936	2-Methylpentadecane	73	1388	28000J
	Unknown		1816	34000J

Date Reported: 9/18/87

J.C. McLendon, P.E.
Laboratory Director

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New Jersey DEP
65 Prospect St.
Trenton, NJ 08628

Lab No. 759878
Sample No. Soil #3

Concentration: Low Conc. Factor:1.46

Date Ext. 8/26/87 Date Anal.9/10/87

C.A.S. NUMBER		ug/kg
319-84-6	alpha-BHC	24U
319-87-7	beta-BHC	24U
319-86-8	delta-BHC	24U
58-89-8	gamma-BHC (Lindane)	24U
76-44-8	Heptachlor	24U
309-00-2	Aldrin	27
1024-57-3	Heptachlor Epoxide	24U
959-98-8	Endosulfan I	24U
60-57-1	Dieldrin	49U
72-55-9	4,4'-DDE	49U
72-20-8	Endrin	49U
33213-65-9	Endosulfan II	49U
72-54-8	4,4'-DDD	49U
1031-07-8	Endosulfan Sulfate	49U
50-29-3	4,4'-DDT	49U
72-43-5	Methoxychlor	240U
53494-70-5	Endrin Ketone	49U
57-74-9	Chlordane	240U
8001-35-2	Toxaphene	49U
12674-11-2	Aroclor 1016	240U
11104-28-2	Aroclor 1221	240U
11141-16-5	Aroclor 1232	240U
53469-21-9	Aroclor 1242	240U
12672-29-6	Aroclor 1248	240U
11097-69-1	Aroclor 1254	490U
11096-82-5	Aroclor 1260	490U

Vi = Volume of extract injected (uL)
Vs = Volume of water extracted (mL)
Vt = Volume of total extract (mL)
Ws = Weight of sample extracted (g)

Vs = mL Vt = 3 mL Vi = 5 uL Ws = 205 g

Date Reported: 9/30/87

S.C. McLendon, P.E.
Laboratory Director

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New Jersey DEP
65 Prospect Street
Trenton, NJ 08628

Sample Lab No. 759878
Sample I.D. Soil 3

Tentatively Identified Compounds

C.A.S. Number	Compound Name	Frac.	RT	Estimated Conc. ug/kg
	Unknown	PEST	2.81	220J
	"	"	3.34	350J
	"	"	4.76	1900J
	"	"	5.12	980J
	"	"	5.62	1200J
	"	"	6.12	2100J
	"	"	7.21	2600J
	"	"	7.87	1600J
	"	"	9.11	1800J
	"	"	10.03	730J
	"	"	11.24	1300J
	"	"	13.87	1400J
	"	"	18.64	300J

Date Reported: 9/30/87

S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, New York 11747-5076 • (516) 694-3040

Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 759879

PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.

65 PROSPECT ST.

TRENTON, NEW JERSEY 08618

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL 99
DATE COLLECTED - 8/19/87 DATE RECEIVED - 8/20/87

NJDEP SAMPLE #0819787
NJDEP SAMPLE POINT ID# SOIL 3

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<10.0	SELENIUM	<0.90 NE
ARSENIC	13.0S	SILVER	<1.40 NE
BERYLLIUM	1.00	THALLIUM	<1.70 NE
CADMIUM	7.80	ZINC	110. NE
CHROMIUM	17.0 NE	PHENOLS	2.10
COPPER	130. NE	CYANIDE	<1.20
LEAD	130.	TOTAL SOLIDS	82.0 %
MERCURY	0.20 NE		
NICKEL	16.0		

All results in mg/kg or % dry weight

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 9/16/87

LABORATORY DIRECTOR

THE LIABILITY OF H2M LABS, INC. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

H2M LABS, INC.
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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759880
Date Collected: 8/19/87 Date Received: 8/20/87
Type: Misc. Collected By: CL 99
Sample I.D.#Soil 4 BSA 0819788

Scan No.	C.A.S. No.		Dry Wt.ug/kg	Scan No.	C.A.S. No.		Dry Wt.ug/kg
25	74-87-3	Chloromethane	130000B		78-87-5	1,2-Dichloropropane	2300U
38	74-83-9	Bromomethane	14000		10061-02-6	Trans-1,3-Dichloropropene	2300U
	75-01-4	Vinyl Chloride	4700U		79-01-6	Trichloroethane	2300U
	75-00-3	Chloroethane	4700U		124-48-1	Dibromochloromethane	2300U
91	75-09-2	Methylene Chloride	4900B		79-00-5	1,1,2-Trichloroethane	2300U
				345	71-43-2	Benzene	1000JB
					10061-01-5	cis-1,3-Dichloropropene	2300U
	75-35-4	1,1-Dichloroethene	2300U		110-75-8	2-Chloroethylvinylether	4700U
	75-34-3	1,1-Dichloroethane	2300U		75-25-2	Bromoform	2300U
	156-60-5	Trans-1,2-Dichloroethene	2300U		127-18-4	Tetrachlorethane	2300U
	67-66-3	Chloroform	2300U				
	107-06-2	1,2-Dichloroethane	2300U				
	75-69-4	Trchlorofluormethane	2300U		79-34-5	1,1,2,2-Tetrachloroethane	2300U
	71-55-6	1,1,1-Trichloroethane	2300U	507	108-88-3	Toluene	1500JB
	56-23-6	Carbon Tetrachloride	2300U		108-90-7	Chlorobenzene	2300U
					100-41-4	Ethylbenzene	2300U
	75-27-4	Bromodichloromethane	2300U		541-73-1	1,3-Dichlorobenzene	2300U
					95-50-1	1,2-Dichlorobenzene	2300U
					106-66-7	1,4-Dichlorobenzene	2300U

Date Reported: 9/17/87

Data Reporting Qualifiers (E = % dev. of cont. cal. exceeds 25%)

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

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

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

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < the specified detection limit but > zero (e.g 10J) If limit of detection is 10 ug/l and a concentration of 3.0 ug/l is calculated, report as 3J.

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

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

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

Optional Flags

N - Compound not present in Calibration File.

S.C. McLendon, P.E.

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H2M LABS, INC.
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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759880
Sample I.D. #Soil #4

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit/Rfit	Scan	(Dry Wt.) Estimated Conc. ug/kg
124389	Carbon dioxide	100 98	15	*150000JB
78933	2-Butanone	97 47	228	4200J
541059	Hexamethyl cyclotri-siloxane	84 76	646	*260000J

* Coelutes with bromoflurobenzene

Date Reported: 9/16/87

S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab Number 759881
Date Collected: 8/19/87 Date Received: 8/20/87
Sample I.D. Sample #Soil 4 Conc. Factor: 2
Collected By: CL 99

Scan #	C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan #
	65-75-9	N-Nitrosodimethylamine	9200U	83-32-9	Acenaphthene	9200U	
	108-95-2	Phenol	9200U	51-28-5	2,4-Dinitrophenol	46000U	
	111-44-4	bis(2-Chloroethyl)ether	9200U	100-02-7	4-Nitrophenol	46000U	
	95-57-8	2-Chloropheonol	9200U	121-14-2	2,4-Dinitrotoluene	9200U	
	541-73-1	1,3-Dichlorobenzene	9200U	606-20-2	2,6-Dinitrotoluene	9200U	
	106-46-7	1,4-Dichlorobenzene	9200U	84-66-2	Diethylphthalate	1700J	932
	95-50-1	1,2-Dichlorobenzene	9200U	7005-72-3	4-Chlorophenyl-phenylether	9200U	
	39638329	bis(2-chloroisopropyl)ether	9200U	86-73-7	Fluorene	9200U	
	621-64-7	N-Nitroso-di-n-propylamine	9200U	534-52-1	4,6-Dinitro-2-Methylphenol	46000U	
	67-72-1	Hexachloroethane	9200U	86-30-6	N-Nitrososdiphenylamine 1)	9200U	
	98-95-3	Nitrobenzene	9200U				
	78-59-1	Isophorone	9200U	101-55-3	4-Bromophenyl-phenylether	9200U	
	88-75-5	2-Nitrophenol	9200U	118-74-1	Hexachlorobenzene	9200U	
	105-67-9	2,4-Dimethylphenol	9200U	87-86-5	Pentachlorophenol	46000U	
				85-01-8	Phenanthrene	1000J	1073
	111-91-1	bis(2-Chloroethoxy)Methane	9200U	120-12-7	Anthracene	9200U	
	120-83-2	2,4-Dichlorophenol	9200U	84-74-2	Di-n-Butylphthalate	9200U	
	120-82-1	1,2,4-Trichlorobenzene	9200U	206-44-0	Fluoranthene	3200J	1256
	91-20-3	Naphthalene	9200U	129-00-0	Pyrene	2800J	1289
	87-68-3	Hexachlorobutadiene	9200U	85-68-7	Butylbenzylphthalate	9200U	
	59-50-7	4-Chloro-3-methylphenol	9200U	91-94-1	3,3'-Dichlorobenzidine	18000U	
				56-55-3	Benzo(a)Anthracene	1900J	1475
	77-47-4	Hexachlorocyclopentadiene	9200U	117-81-7	bis(2-Ethylhexyl)Phthalate	45000B	1511
	88-06-2	2,4,6-Trichlorophenol	9200U	218-01-9	Chrysene	2200J	1481
				117-84-0	Di-n-Octyl Phthalate	9200U	
	91-58-7	2-Chloronaphthalene	9200U	205-99-2	Benzo(b)Fluoranthene	1900J	1631
				207-08-9	Benzo(k)Fluoranthene	2100J	1632
	131-11-3	Dimethyl Phthalate	9200U	50-32-8	Benzo(a)Pyrene	1400J	1672
	208-96-8	Acenaphthylene	9200U	193-39-5	Indeno(1,2,3-cd)Pyrene	1000J	1842
				53-70-3	Dibenzo(a,h)Anthracene	9200U	
				191-24-2	Benzo(g,h,i)Perylene	1100J	1886
				92-87-5	Benzidine	74000U	

(1) - Cannot be separated from diphenylamine

Date Reported: 9/18/87

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S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759881
Sample I.D. Soil 4

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit	Scan	Estimated Conc. ug/kg
79005	1,1,2-Trichloroethane	94	75	3000J
4127473	1,1,2,2-Tetramethyl-cyclopropane	78	118	22000J
	Unknown		212	4000J
79345	1,1,2,2-Tetrachloroethane	44	274	3000J
	Unknown		502	6000J
21964498	1,13-Tetradecadiene	87	1121	3000J
19047859	Dioctadecylphosphorioate	81	1133	4000J
57103	Hexadecanoic acid	96	1182	3000J
1486755	(E)-cyclododecene	83	1246	76000J
	Unknown		1274	4000J
	Unknown		1282	4000J
1559348	3,6,9,12-Tetraoxahexa-decan-1-ol	60	1405	4000J
1786943	3,6,9,12,15-Pentaoxa-nonadecan-1-ol	60	1545	2000J
	Unknown		1618	11000J
	Unknown		1667	3000J
	Unknown		1683	2000J

Date Reported: 9/18/87

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S.C. McLendon, P.E.
Laboratory Director

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H2M LABS, INC.
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New Jersey DEP
65 Prospect St.
Trenton, NJ 08628

Lab No. 759882
Sample No. BSA 0819788
Sample I.D. Soil 4
Concentration: Low Dil. Factor: .74
Date Coll. 8/19/87 Date Rec. 8/20/87
Date Ext. 8/26/87 Date Anal.9/10,14/87
Percent Moisture (Decanted) 13% Sonicator:yes

C.A.S. NUMBER		ug/kg
319-84-6	alpha-BHC	23U
319-87-7	beta-BHC	23U
319-86-8	delta-BHC	23U
58-89-8	gamma-BHC (Lindane)	23U
76-44-8	Heptachlor	23U
309-00-2	Aldrin	23U
1024-57-3	Heptachlor Epoxide	23U
959-98-8	Endosulfan I	23U
60-57-1	Dieldrin	46U
72-55-9	4,4'-DDE	46U
72-20-8	Endrin	46U
33213-65-9	Endosulfan II	46U
72-54-8	4,4'-DDD	46U
1031-07-8	Endosulfan Sulfate	46U
50-29-3	4,4'-DDT	46U
72-43-5	Methoxychlor	230U
53494-70-5	Endrin Ketone	46U
57-74-9	Chlordane	230U
8001-35-2	Toxaphene	460U
12674-11-2	Aroclor 1016	230U
11104-28-2	Aroclor 1221	230U
11141-16-5	Aroclor 1232	230U
53469-21-9	Aroclor 1242	230U
12672-29-6	Aroclor 1248	230U
11097-69-1	Aroclor 1254	460U
11096-82-5	Aroclor 1260	570

Vi = Volume of extract injected (uL)
Vs = Volume of water extracted (mL)
Vt = Volume of total extract (mL)
Ws = Weight of sample extracted (g)

Vs = Vt = 3 mL Vi = 5 uL Ws = 2.18 g

Date Reported: 9/30/87

S.C. McLendon, P.E.
Laboratory Director

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HOLZMACHER, McLENDON and MURRELL, P.C. • **ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES**

New Jersey DEP
65 Prospect Street
Trenton, NJ 08628

Sample Lab No. 759882
Sample I.D. Soil 4

Tentatively Identified Compounds

C.A.S. Number	Compound Name	Frac.	RT	Estimated Conc. ug/kg
	No unknowns found	PEST		46U

Date Reported: 9/30/87

S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, New York 11747-5076 • (516) 694-3040

Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 759883
PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.
65 PROSPECT ST.
TRENTON, NEW JERSEY 08618

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL 99
DATE COLLECTED - 8/19/87 DATE RECEIVED - 8/20/87

NJDEP SAMPLE #BSA 0819788
NJDEP SAMPLE POINT ID# SOIL 4

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<10.0	SELENIUM	<0.90 NE
ARSENIC	<12.0	SILVER	<1.40 NE
BERYLLIUM	0.70	THALLIUM	<1.70 NE
CADMIUM	5.10	ZINC	240. NE
CHROMIUM	58.0 NE	PHENOLS	0.70
COPPER	80.0 NE	CYANIDE	<1.20
LEAD	220.	TOTAL SOLIDS	87.0 %
MERCURY	0.70 NE		
NICKEL	17.0		

All results in mg/kg or % dry weight

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 9/16/87

LABORATORY DIRECTOR

THE LIABILITY OF H2M LABS, INC. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

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HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759884
Date Collected: 8/19/87 Date Received: 8/20/87
Type: Misc. Collected By: CL 99
Sample I.D.#Soil 5 BSA 0819789

Scan No.	C.A.S. No.		Dry Wt.ug/kg	Scan No.	C.A.S. No.		Dry Wt.ug/kg
27	74-87-3	Chloromethane	100000B		78-87-5	1,2-Dichloropropane	2100U
41	74-83-9	Bromomethane	7100B		10061-02-6	Trans-1,3-Dichloropropene	2100U
	75-01-4	Vinyl Chloride	4300U		79-01-6	Trichloroethane	2100U
	75-00-3	Chloroethane	4300U		124-48-1	Dibromochloromethane	2100U
89	75-09-2	Methylene Chloride	2500B		79-00-5	1,1,2-Trichloroethane	2100U
				344	71-43-2	Benzene	580JB
					10061-01-5	cis-1,3-Dichloropropene	2200U
	75-35-4	1,1-Dichloroethene	2100U		110-75-8	2-Chloroethylvinylether	4300U
	75-34-3	1,1-Dichloroethane	2100U		75-25-2	Bromoform	2100U
	156-60-5	Trans-1,2-Dichloroethene	2100U		127-18-4	Tetrachlorethane	2100U
	67-66-3	Chloroform	2100U				
	107-06-2	1,2-Dichloroethane	2100U				
	75-69-4	Trchlorofluormethane	2100U		79-34-5	1,1,2,2-Tetrachloroethane	2100U
	71-55-6	1,1,1-Trichloroethane	2100U	505	108-88-3	Toluene	1000JB
	56-23-6	Carbon Tetrachloride	2100U		108-90-7	Chlorobenzene	2100U
					100-41-4	Ethylbenzene	2100U
	75-27-4	Bromodichloromethane	2100U		541-73-1	1,3-Dichlorobenzene	2100U
					95-50-1	1,2-Dichlorobenzene	2100U
					106-66-7	1,4-Dichlorobenzene	2100U

Date Reported: 9/17/87

Data Reporting Qualifiers (E = % dev. of cont. cal. exceeds 25%)

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

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

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

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < the specified detection limit but > zero (e.g 10J) If limit of detection is 10 ug/l and a concentration of 3.0 ug/l is calculated, report as 3J.

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

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

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

Optional Flags

N - Compound not present in Calibration File.

S.C. McLendon, P.E.

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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759884
Sample I.D. #Soil #5

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit/Rfit	Scan	(Dry Wt.) Estimated Conc. ug/kg
124389	Carbon dioxide	100 97	14	37000JB
78933	2-Butanone		225	3900J

Date Reported: 9/16/87

S.C. McLendon, P.E.
Laboratory Director

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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab Number 759885
Date Collected: 8/19/87 Date Received: 8/20/87
Sample I.D. Sample #Soil 5 Conc. Factor: 1
Collected By: CL 99

Scan #	C.A.S. Number		ug/kg	C.A.S. Number		ug/kg	Scan #
	65-75-9	N-Nitrosodimethylamine	11000U	83-32-9	Acenaphthene	11000U	
	108-95-2	Phenol	11000U	51-28-5	2,4-Dinitrophenol	55000U	
	111-44-4	bis(2-Chloroethyl)ether	11000U	100-02-7	4-Nitrophenol	55000U	
	95-57-8	2-Chloropheonol	11000U	121-14-2	2,4-Dinitrotoluene	11000U	
	541-73-1	1,3-Dichlorobenzene	11000U	606-20-2	2,6-Dinitrotoluene	11000U	
	106-46-7	1,4-Dichlorobenzene	11000U	84-66-2	Diethylphthalate	1500J	933
	95-50-1	1,2-Dichlorobenzene	11000U	7005-72-3	4-Chlorophenyl-phenylether	11000U	
	39638329	bis(2-chloroisopropyl)ether	11000U	86-73-7	Fluorene	11000U	
	621-64-7	N-Nitroso-di-n-propylamine	11000U	534-52-1	4,6-Dinitro-2-Methylphenol	55000U	
	67-72-1	Hexachloroethane	11000U	86-30-6	N-Nitrososdiphenylamine 1)	11000U	
	98-95-3	Nitrobenzene	11000U				
	78-59-1	Isophorone	11000U	101-55-3	4-Bromophenyl-phenylether	11000U	
	88-75-5	2-Nitrophenol	11000U	118-74-1	Hexachlorobenzene	11000U	
	105-67-9	2,4-Dimethylphenol	11000U	87-86-5	Pentachlorophenol	55000U	
				85-01-8	Phenanthrene	1300J	1073
	111-91-1	bis(2-Chloroethoxy)Methane	11000U	120-12-7	Anthracene	11000U	
	120-83-2	2,4-Dichlorophenol	11000U	84-74-2	Di-n-Butylphthalate	11000U	
	120-82-1	1,2,4-Trichlorobenzene	11000U	206-44-0	Fluoranthene	7000J	1256
	91-20-3	Naphthalene	11000U	129-00-0	Pyrene	6600J	1288
	87-68-3	Hexachlorobutadiene	11000U	85-68-7	Butylbenzylphthalate	11000U	
	59-50-7	4-Chloro-3-methylphenol	11000U	91-94-1	3,3'-Dichlorobenzidine	22000U	
				56-55-3	Benzo(a)Anthracene	4000J	1475
	77-47-4	Hexachlorocyclopentadiene	11000U	117-81-7	bis(2-Ethylhexyl)Phthalate	51000B	1510
	88-06-2	2,4,6-Trichlorophenol	11000U	218-01-9	Chrysene	5500J	1480
				117-84-0	Di-n-Octyl Phthalate	11000U	
	91-58-7	2-Chloronaphthalene	11000U	205-99-2	Benzo(b)Fluoranthene	4600J	1631
				207-08-9	Benzo(k)Fluoranthene	5000J	1633
	131-11-3	Dimethyl Phthalate	11000U	50-32-8	Benzo(a)Pyrene	11000U	
	208-96-8	Acenaphthylene	11000U	193-39-5	Indeno(1,2,3-cd)Pyrene	11000U	
				53-70-3	Dibenzo(a,h)Anthracene	11000U	
				191-24-2	Benzo(g,h,i)Perylene	11100U	
				92-87-5	Benzidine	88000U	

(1) - Cannot be separated from diphenylamine

Date Reported: 9/18/87

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S.C. McLendon, P.E.
Laboratory Director

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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759885
Sample I.D. Soil 5

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit	Scan	Estimated Conc. ug/kg
	Unknown		565	18000J
17312822	4,6-Dimethyl undecane	83	612	37000J
	Unknown		622	38000J
	Unknown		646	20000J
	Unknown		657	30000J
62016346	2,3,7-Trimethyl octane	84	667	45000J
	Unknown		674	35000J
	Unknown		707	24000J
	Unknown		731	28000J
	Unknown		745	16000J
	Unknown		782	16000J
54832836	Octahydro-2,2,4,4,7,7-hexamethyl-trans-1H-indene	36	805	67000J
	Unknown		828	16000J
19047859	Dioctadecylphosphonate	60	843	29000J
	Unknown		901	17000J
	Unknown		910	25000J
74645980	2,7,10-Trimethyldodecane	79	1012	26000J
21964498	1,13-Tetradecadiene	89	1245	220000J
	Unknown		1249	51000J

Date Reported: 9/18/87

S.C. McLendon, P.E.
Laboratory Director

47

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New Jersey DEP
65 Prospect St.
Trenton, NJ 08628

Lab No. 759886
Sample No. BSA 0819789
Sample I.D. Soil 5
Concentration: Low Dil. Factor:1.69
Date Coll. 8/19/87 Date Rec. 8/20/87
Date Ext. 8/26/87 Date Anal.9/10,14/87
Percent Moisture (Decanted) 29% Sonicator:yes

C.A.S. NUMBER		ug/kg
319-84-6	alpha-BHC	28U
319-87-7	beta-BHC	28U
319-86-8	delta-BHC	28U
58-89-8	gamma-BHC (Lindane)	28U
76-44-8	Heptachlor	28U
309-00-2	Aldrin	28U
1024-57-3	Heptachlor Epoxide	28U
959-98-8	Endosulfan I	28U
60-57-1	Dieldrin	56U
72-55-9	4,4'-DDE	56U
72-20-8	Endrin	56U
33213-65-9	Endosulfan II	56U
72-54-8	4,4'-DDD	56U
1031-07-8	Endosulfan Sulfate	56U
50-29-3	4,4'-DDT	56U
72-43-5	Methoxychlor	280U
53494-70-5	Endrin Ketone	56U
57-74-9	Chlordane	280U
8001-35-2	Toxaphene	560U
12674-11-2	Aroclor 1016	280U
11104-28-2	Aroclor 1221	280U
11141-16-5	Aroclor 1232	280U
53469-21-9	Aroclor 1242	280U
12672-29-6	Aroclor 1248	280U
11097-69-1	Aroclor 1254	560U
11096-82-5	Aroclor 1260	560U

Vi = Volume of extract injected (uL)
Vs = Volume of water extracted (mL)
Vt = Volume of total extract (mL)
Ws = Weight of sample extracted (g)

Vs = Vt = 3 mL Vi = 5 uL Ws = 1.78 g

Date Reported: 9/30/87

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S.C. McLendon, P.E.
Laboratory Director

04

H2M LABS, INC.
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New Jersey DEP
65 Prospect Street
Trenton, NJ 08628

Sample Lab No. 759886
Sample I.D. Soil 5

Tentatively Identified Compounds

C.A.S. Number	Compound Name	Frac.	RT	Estimated Conc. ug/kg
	Unknown	PEST	1.55	75J
	"	"	1.93	95J
	"	"	2.74	73J
	"	"	3.18	77J
	"	"	5.97	67J
	"	"	6.79	170J
	"	"	7.20	100J
	"	"	18.65	250J

Date Reported: 9/30/87

S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, New York 11747-5076 • (516) 694-3040

Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 759887
PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.
65 PROSPECT ST.
TRENTON, NEW JERSEY 08618

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL 99
DATE COLLECTED - 8/19/87 DATE RECEIVED - 8/20/87

NJDEP SAMPLE #0819789
NJDEP SAMPLE POINT ID# SOIL 5

PARAMETER	RESULT	PARAMETER	RESULT
ANTIMONY	<10.0	SELENIUM	<0.90 NE
ARSENIC	50.0 S	SILVER	<1.40 NE
BERYLLIUM	1.00	THALLIUM	<1.70 NE
CADMIUM	9.70	ZINC	270. NE
CHROMIUM	62.0 NE	PHENOLS	0.60
COPPER	350. NE	CYANIDE	<1.40
LEAD	900.	TOTAL SOLIDS	71.0 %
MERCURY	0.70 NE		
NICKEL	35.0		

All results in mg/kg or % dry weight

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 9/16/87

LABORATORY DIRECTOR

THE LIABILITY OF H2M LABS, INC. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759888
Date Collected: 8/19/87 Date Received: 8/20/87
Type: Misc. Collected By: CL 99
Sample I.D. GW #1 BSA 08197890 Aqueous Sample

Scan No.	C.A.S. No.		ug/l	Scan No.	C.A.S. No.		ug/l
	74-87-3	Chloromethane	50U		78-87-5	1,2-Dichloropropane	25U
	74-83-9	Bromomethane	50U		10061-02-6	Trans-1,3-Dichloropropene	25U
	75-01-4	Vinyl Chloride	50U		79-01-6	Trichloroethane	25U
	75-00-3	Chloroethane	50U		124-48-1	Dibromochloromethane	25U
	75-09-2	Methylene Chloride	14JB		79-00-5	1,1,2-Trichloroethane	25U
				356	71-43-2	Benzene	14J
					10061-01-5	cis-1,3-Dichloropropene	25U
	75-35-4	1,1-Dichloroethene	25U		110-75-8	2-Chloroethylvinylether	50U
	75-34-3	1,1-Dichloroethane	25U		75-25-2	Bromoform	25U
	156-60-5	Trans-1,2-Dichloroethene	25U		127-18-4	Tetrachlorethane	25U
	67-66-3	Chloroform	25U				
	107-06-2	1,2-Dichloroethane	25U				
	75-69-4	Trchlorofluormethane	25U		79-34-5	1,1,2,2-Tetrachloroethane	25U
	71-55-6	1,1,1-Trichloroethane	25U	498	108-88-3	Toluene	14JB
	56-23-6	Carbon Tetrachloride	25U		108-90-7	Chlorobenzene	25U
				576	100-41-4	Ethylbenzene	27
	75-27-4	Bromodichloromethane	25U		541-73-1	1,3-Dichlorobenzene	25U
					95-50-1	1,2-Dichlorobenzene	25U
					106-66-7	1,4-Dichlorobenzene	25U

Date Reported: 9/17/87

Data Reporting Qualifiers (E = % dev. of cont. cal. exceeds 25%)

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

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

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

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < the specified detection limit but > zero (e.g 10J) If limit of detection is 10 ug/l and a concentration of 3.0 ug/l is calculated, report as 3J.

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

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

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

Optional Flags

N - Compound not present in Calibration File.

S.C. McLendon, P.E.

H2M LABS, INC.
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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759888
Sample I.D. #GW 1

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit/Rfit	Scan	Estimated Conc. ug/l
	Unknown		295	18J
	Unknown		556	22J
	Unknown		704	41J
	Unknown		736	36J
	Unknown		905	59J
	Unknown		954	68J

Date Reported: 9/16/87

S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab Number 759889
Date Collected: 8/19/87 Date Received: 8/20/87
Sample I.D. Sample #GW 1 Conc. Factor: 250
Collected By: CL 99

Scan #	C.A.S. Number		ug/l
	65-75-9	N-Nitrosodimethylamine	20U
376	108-95-2	Phenol	36
	111-44-4	bis(2-Chloroethyl)ether	20U
	95-57-8	2-Chloropheonol	20U
	541-73-1	1,3-Dichlorobenzene	20U
	106-46-7	1,4-Dichlorobenzene	20U
	95-50-1	1,2-Dichlorobenzene	20U
	39638329	bis(2-chloroisopropyl)ether	20U
	621-64-7	N-Nitroso-di-n-propylamine	20U
	67-72-1	Hexachloroethane	20U
	98-95-3	Nitrobenzene	20U
	78-59-1	Isophorone	20U
	88-75-5	2-Nitrophenol	20U
	105-67-9	2,4-Dimethylphenol	20U
	111-91-1	bis(2-Chloroethoxy)Methane	20U
	120-83-2	2,4-Dichlorophenol	20U
	120-82-1	1,2,4-Trichlorobenzene	20U
	91-20-3	Naphthalene	20U
	87-68-3	Hexachlorobutadiene	20U
	59-50-7	4-Chloro-3-methylphenol	20U
	77-47-4	Hexachlorocyclopentadiene	20U
	88-06-2	2,4,6-Trichlorophenol	20U
	91-58-7	2-Chloronaphthalene	20U
	131-11-3	Dimethyl Phthalate	20U
	208-96-8	Acenaphthylene	20U

C.A.S. Number		ug/l	Scan #
83-32-9	Acenaphthene	20U	
51-28-5	2,4-Dinitrophenol	100U	
100-02-7	4-Nitrophenol	100U	
121-14-2	2,4-Dinitrotoluene	20U	
606-20-2	2,6-Dinitrotoluene	20U	
84-66-2	Diethylphthalate	20U	
7005-72-3	4-Chlorophenyl-phenylether	20U	
86-73-7	Fluorene	79	936
534-52-1	4,6-Dinitro-2-Methylphenol	100U	
86-30-6	N-Nitrososdiphenylamine	1) 20U	
101-55-3	4-Bromophenyl-phenylether	20U	
118-74-1	Hexachlorobenzene	20U	
87-86-5	Pentachlorophenol	100U	
85-01-8	Phenanthrene	150	1081
120-12-7	Anthracene	20U	
84-74-2	Di-n-Butylphthalate	15J	1190
206-44-0	Fluoranthene	15J	1262
129-00-0	Pyrene	20U	
85-68-7	Butylbenzylphthalate	20U	
91-94-1	3,3'-Dichlorobenzidine	40U	
56-55-3	Benzo(a)Anthracene	20U	
117-81-7	bis(2-Ethylhexyl)Phthalate	160B	1512
218-01-9	Chrysene	20U	
117-84-0	Di-n-Octyl Phthalate	20U	
205-99-2	Benzo(b)Fluoranthene	20U	
207-08-9	Benzo(k)Fluoranthene	20U	
50-32-8	Benzo(a)Pyrene	20U	
193-39-5	Indeno(1,2,3-cd)Pyrene	20U	
53-70-3	Dibenzo(a,h)Anthracene	20U	
191-24-2	Benzo(g,h,i)Perylene	20U	
92-87-5	Benzidine	160U	

(1) - Cannot be separated from diphenylamine

Date Reported: 9/18/87

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S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759889
Sample I.D. #GW1

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit	Scan	Estimated Conc. ug/l
1072168	2,7-Dimethyl octane	71	391	130J
17312822	4,6-Dimethyl undecane	78	503	250J
	Unknown		652	160J
1560970	2-Methyl dodecane	41	664	140J
62016335	2,3,6-Trimethyl octane	78	673	220J
4453901	1,4-Dihydro-1,4-methanonapthalene	88	710	200J
	Unknown		736	110J
17302328	3,7-Dimethylnonane	70	765	160J
62108213	6-Ethyl-2-methyldecane	76	785	170J
571584	1,4-Dimethylnapthalene	89	806	220J
74645980	2,7,10-Trimethyl dodecane	83	835	100J
	Unknown		873	100J
	Unknown		907	110J
	Unknown		130	440J

Date Reported: 9/18/87

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Laboratory Director

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New Jersey DEP
65 Prospect St.
Trenton, NJ 08628

Lab No. 759890
Sample No. BSA 08197890
Sample I.D. GW-1
Concentration: Low Conc. Factor: 83
Date Coll. 8/19/87 Date Rec. 8/20/87
Date Ext. 8/26/87 Date Anal.9/10,14/87

C.A.S. NUMBER		ug/l
319-84-6	alpha-BHC	0.20U
319-87-7	beta-BHC	0.20U
319-86-8	delta-BHC	0.20U
58-89-8	gamma-BHC (Lindane)	0.20U
76-44-8	Heptachlor	0.20U
309-00-2	Aldrin	0.20U
1024-57-3	Heptachlor Epoxide	0.20U
959-98-8	Endosulfan I	0.20U
60-57-1	Dieldrin	0.40U
72-55-9	4,4'-DDE	0.40U
72-20-8	Endrin	0.40U
33213-65-9	Endosulfan II	0.40U
72-54-8	4,4'-DDD	0.40U
1031-07-8	Endosulfan Sulfate	0.40U
50-29-3	4,4'-DDT	0.40U
72-43-5	Methoxychlor	2.0U
53494-70-5	Endrin Ketone	0.4U
57-74-9	Chlordane	2.0U
8001-35-2	Toxaphene	4.0U
12674-11-2	Aroclor 1016	2.0U
11104-28-2	Aroclor 1221	2.0U
11141-16-5	Aroclor 1232	2.0U
53469-21-9	Aroclor 1242	2.0U
12672-29-6	Aroclor 1248	2.0U
11097-69-1	Aroclor 1254	4.0U
11096-82-5	Aroclor 1260	4.0U

Vi = Volume of extract injected (uL)
Vs = Volume of water extracted (mL)
Vt = Volume of total extract (mL)
Ws = Weight of sample extracted (g)

Vs = 250 mL Vt = 3 mL Vi = 5 uL Ws = g

Date Reported: 9/30/87

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S.C. McLendon, P.E.
Laboratory Director

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New Jersey DEP
65 Prospect Street
Trenton, NJ 08628

Sample Lab No. 759890
Sample I.D. GW-1

Tentatively Identified Compounds

C.A.S. Number	Compound Name	Frac.	RT	Estimated Conc. ug/L
	No unknowns found	PEST		0.40U

Date Reported: 9/30/87

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S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, New York 11747-5076 • (516) 694-3040

Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 759891
PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.
65 PROSPECT ST.
TRENTON, NEW JERSEY 08618

TYPE OF SAMPLE - MISCELLANEOUS
COLLECTED BY CL 99
DATE COLLECTED - 8/19/87
DATE RECEIVED - 8/20/87

NJDEP SAMPLE #BSA 08197890
NJDEP SAMPLE POINT ID# GW 1
AQUEOUS SAMPLE

PARAMETER	RESULT		PARAMETER	RESULT
ANTIMONY	<60.0 #	NE	SELENIUM	<50.0 #
ARSENIC	480.#		SILVER	<10.0 #
BERYLLIUM	30.0 #		THALLIUM	<100.#
CADMIUM	370.#	NE	ZINC	93000 #
CHROMIUM	870.#	NE	PHENOLS	200.#
COPPER	3020 #		CYANIDE	<10.0 #
LEAD	2800 #			
MERCURY	<0.20#	NE		
NICKEL	480.#			

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L.) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 9/16/87

LABORATORY DIRECTOR

THE LIABILITY OF H2M LABS, INC. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

H2M LABS, INC.
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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759892
Date Collected: 8/19/87 Date Received: 8/20/87
Type: Misc. Collected By: CL 99
Sample I.D. SW #1 BSA 08197991 Aqueous Sample

Scan No.	C.A.S. No.		ug/l
	74-87-3	Chloromethane	10U
	74-83-9	Bromomethane	10U
	75-01-4	Vinyl Chloride	10U
	75-00-3	Chloroethane	10U
92	75-09-2	Methylene Chloride	24B
	75-35-4	1,1-Dichloroethene	5U
	75-34-3	1,1-Dichloroethane	5U
	156-60-5	Trans-1,2-Dichloroethene	5U
198	67-66-3	Chloroform	5U
	107-06-2	1,2-Dichloroethane	5U
	75-69-4	Trchlorofluormethane	5U
	71-55-6	1,1,1-Trichloroethane	5U
	56-23-6	Carbon Tetrachloride	5U
	75-27-4	Bromodichloromethane	5U

Scan No.	C.A.S. No.		ug/l
	78-87-5	1,2-Dichloropropane	5U
	10061-02-6	Trans-1,3-Dichloropropene	5U
	79-01-6	Trichloroethane	5U
	124-48-1	Dibromochloromethane	5U
	79-00-5	1,1,2-Trichloroethane	5U
340	71-43-2	Benzene	5
	10061-01-5	cis-1,3-Dichloropropene	5U
	110-75-8	2-Chloroethylvinylether	10U
	75-25-2	Bromoform	5U
	127-18-4	Tetrachlorethane	5U
	79-34-5	1,1,2,2-Tetrachloroethane	5U
502	108-88-3	Toluene	8B
531	108-90-7	Chlorobenzene	1J
	100-41-4	Ethylbenzene	5U
	541-73-1	1,3-Dichlorobenzene	5U
	95-50-1	1,2-Dichlorobenzene	5U
	106-66-7	1,4-Dichlorobenzene	5U

Date Reported: 9/17/87

Data Reporting Qualifiers (E = % dev. of cont. cal. exceeds 25%)

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

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

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

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < the specified detection limit but > zero (e.g 10J) If limit of detection is 10 ug/l and a concentration of 3.0 ug/l is calculated, report as 3J.

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

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

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

Optional Flags

N - Compound not present in Calibration File.

S.C. McLendon, P.E.

H2M LABS, INC.
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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759892
Sample I.D. #SW1

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit/Rfit	Scan	Estimated Conc. ug/l
124389	Carbon dioxide	100 98	16	210JB
541059	Hexamethyl cyclotri-siloxane	82 77	644	*1200JB

* Coelates with bromofluorobenzene

Date Reported: 9/16/87

S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab Number 759893
Date Collected: 8/19/87 Date Received: 8/20/87
Sample I.D. Sample #SW 1 Conc. Factor: 500
Collected By: CL 99

Scan #	C.A.S. Number		ug/l	C.A.S. Number		ug/l	Scan #
	65-75-9	N-Nitrosodimethylamine	10U	83-32-9	Acenaphthene	10U	
	108-95-2	Phenol	10U	51-28-5	2,4-Dinitrophenol	50U	
	111-44-4	bis(2-Chloroethyl)ether	10U	100-02-7	4-Nitrophenol	50U	
	95-57-8	2-Chloropheonol	10U	121-14-2	2,4-Dinitrotoluene	10U	
	541-73-1	1,3-Dichlorobenzene	10U	606-20-2	2,6-Dinitrotoluene	10U	
	106-46-7	1,4-Dichlorobenzene	10U	84-66-2	Diethylphthalate	10U	
	95-50-1	1,2-Dichlorobenzene	10U	7005-72-3	4-Chlorophenyl-phenylether	10U	
	39638329	bis(2-chloroisopropyl)ether	10U	86-73-7	Fluorene	29	933
	621-64-7	N-Nitroso-di-n-propylamine	10U	534-52-1	4,6-Dinitro-2-Methylphenol	50U	
	67-72-1	Hexachloroethane	10U	86-30-6	N-Nitrososdiphenylamine 1)	10U	
	98-95-3	Nitrobenzene	10U				
	78-59-1	Isophorone	10U	101-55-3	4-Bromophenyl-phenylether	10U	
	88-75-5	2-Nitrophenol	10U	118-74-1	Hexachlorobenzene	10U	
	105-67-9	2,4-Dimethylphenol	10U	87-86-5	Pentachlorophenol	50U	
				85-01-8	Phenanthrene	62	1078
	111-91-1	bis(2-Chloroethoxy)Methane	10U	120-12-7	Anthracene	10U	
	120-83-2	2,4-Dichlorophenol	10U	84-74-2	Di-n-Butylphthalate	10U	
	120-82-1	1,2,4-Trichlorobenzene	10U	206-44-0	Fluoranthene	9J	1259
	91-20-3	Naphthalene	10U	129-00-0	Pyrene	18	1291
	87-68-3	Hexachlorobutadiene	10U	85-68-7	Butylbenzylphthalate	10U	
	59-50-7	4-Chloro-3-methylphenol	10U	91-94-1	3,3'-Dichlorobenzidine	20U	
				56-55-3	Benzo(a)Anthracene	10U	
	77-47-4	Hexachlorocyclopentadiene	10U	117-81-7	bis(2-Ethylhexyl)Phthalate	69B	1509
	88-06-2	2,4,6-Trichlorophenol	10U	218-01-9	Chrysene	10U	
				117-84-0	Di-n-Octyl Phthalate	10U	
	91-58-7	2-Chloronaphthalene	10U	205-99-2	Benzo(b)Fluoranthene	10U	
				207-08-9	Benzo(k)Fluoranthene	10U	
	131-11-3	Dimethyl Phthalate	10U	50-32-8	Benzo(a)Pyrene	10U	
	208-96-8	Acenaphthylene	10U	193-39-5	Indeno(1,2,3-cd)Pyrene	10U	
				53-70-3	Dibenzo(a,h)Anthracene	10U	
				191-24-2	Benzo(g,h,i)Perylene	10U	
				92-87-5	Benzidine	80U	

(1) - Cannot be separated from diphenylamine

Date Reported: 9/18/87

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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759893
Sample I.D. #SW1

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit	Scan	Estimated Conc. ug/l
	Unknown		599	110J
17312822	4,6-Dimethyl undecane	87	614	150J
4175535	2,3-Dihydro-1,3-dimethyl-1H-indene	83	649	90J
1559815	1,2,3,4-Tetrahydro-1-methyl napthalene	87	662	110J
62016346	2,3,7-Trimethyl octane	83	669	200J
	Unknown		685	60J
2471832	1-Ethylindene-1H-indene	76	691	180J
	Unknown		733	120J
74645980	2,7,10-Trimethyl-dodecane	79	762	220J
569415	1,8-Dimethylnapthalene	93	790	130J
581408	2,3-Dimethylnapthalene	96	803	280J
	Unknown		839	24J
	Unknown		905	42J
	Unknown		1044	24J
54833486	2,6,10,15-Tetramethyl-heptadecane	83	1142	34J
3674666	2,5-Dimethylphenanthrene	76	1231	30J

Date Reported: 9/18/87

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New Jersey DEP
65 Prospect St.
Trenton, NJ 08628

Lab No. 759894
Sample No. BSA 08197991
Sample I.D. SW-1
Concentration: Low Conc. Factor:167
Date Coll. 8/19/87 Date Rec. 8/20/87
Date Ext. 8/22/87 Date Anal.9/10,14/87

C.A.S. NUMBER		ug/l
319-84-6	alpha-BHC	0.10U
319-87-7	beta-BHC	0.10U
319-86-8	delta-BHC	0.10U
58-89-8	gamma-BHC (Lindane)	0.10U
76-44-8	Heptachlor	0.10U
309-00-2	Aldrin	0.03J
1024-57-3	Heptachlor Epoxide	0.02J
959-98-8	Endosulfan I	0.10U
60-57-1	Dieldrin	0.20U
72-55-9	4,4'-DDE	0.20U
72-20-8	Endrin	0.20U
33213-65-9	Endosulfan II	0.20U
72-54-8	4,4'-DDD	0.20U
1031-07-8	Endosulfan Sulfate	0.20U
50-29-3	4,4'-DDT	0.20U
72-43-5	Methoxychlor	1.0U
53494-70-5	Endrin Ketone	0.2U
57-74-9	Chlordane	1.0U
8001-35-2	Toxaphene	2.0U
12674-11-2	Aroclor 1016	1.0U
11104-28-2	Aroclor 1221	1.0U
11141-16-5	Aroclor 1232	1.0U
53469-21-9	Aroclor 1242	1.0U
12672-29-6	Aroclor 1248	1.0U
11097-69-1	Aroclor 1254	2.0U
11096-82-5	Aroclor 1260	2.0U

Vi = Volume of extract injected (uL)
Vs = Volume of water extracted (mL)
Vt = Volume of total extract (mL)
Ws = Weight of sample extracted (g)

Vs = 500 mL Vt = 3 mL Vi = 5 uL Ws = g

Date Reported: 9/30/87

J.C. McLendon, P.E.
Laboratory Director

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New Jersey DEP
65 Prospect Street
Trenton, NJ 08628

Sample Lab No. 759894
Sample I.D. SW-1

Tentatively Identified Compounds

C.A.S. Number	Compound Name	Frac.	RT	Estimated Conc. ug/L
	Unknown	PEST	2.11	0.89J
	"	"	2.79	1.3J
	"	"	3.29	1.1J
	"	"	4.72	0.67J
	"	"	6.09	0.68J

Date Reported: 9/30/87

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S.C. McLendon, P.E.
Laboratory Director

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Environmental Testing Laboratories
575 Broad Hollow Road, Melville, New York 11747-5076 • (516) 694-3040

Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 759895

PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.

65 PROSPECT ST.

TRENTON, NEW JERSEY 08618

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL 99
DATE COLLECTED - 8/19/87 DATE RECEIVED - 8/20/87

NJDEP SAMPLE #BSA 08197991
NJDEP SAMPLE POINT ID# SW1
AQUEOUS SAMPLE

PARAMETER	RESULT		PARAMETER	RESULT
ANTIMONY	<60.0 #	NE	SELENIUM	<5.00#
ARSENIC	<10.0 #		SILVER	<10.0 #
BERYLLIUM	<5.00#		THALLIUM	<10.0 #
CADMIUM	15.0 #	NE	ZINC	40.0 #
CHROMIUM	<10.0 #	NE	PHENOLS	10.0 #
COPPER	<20.0 #		CYANIDE	<10.0 #
LEAD	14.0 #			
MERCURY	<0.20#	NE		
NICKEL	<40.0 #			

ALL RESULTS IN (MG/L) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 9/16/87

LABORATORY DIRECTOR

HE LIABILITY OF H2M LABS, INC. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759896
Date Collected: 8/19/87 Date Received: 8/20/87
Type: Misc. Collected By: CL 99
Sample I.D.#SW2 BSA 08197992 Aqueous Sample

Scan No.	C.A.S. No.		ug/l
	74-87-3	Chloromethane	10U
	74-83-9	Bromomethane	10U
	75-01-4	Vinyl Chloride	10U
	75-00-3	Chloroethane	10U
90	75-09-2	Methylene Chloride	9B
	75-35-4	1,1-Dichloroethene	5U
	75-34-3	1,1-Dichloroethane	5U
	156-60-5	Trans-1,2-Dichloroethene	5U
198	67-66-3	Chloroform	27
	107-06-2	1,2-Dichloroethane	5U
	75-69-4	Trchlorofluormethane	5U
	71-55-6	1,1,1-Trichloroethane	5U
	56-23-6	Carbon Tetrachloride	5U
269	75-27-4	Bromodichloromethane	8

Scan No.	C.A.S. No.		ug/l
	78-87-5	1,2-Dichloropropane	5U
	10061-02-6	Trans-1,3-Dichloropropene	5U
	79-01-6	Trichloroethane	5U
	124-48-1	Dibromochloromethane	5U
	79-00-5	1,1,2-Trichloroethane	5U
342	71-43-2	Benzene	5
	10061-01-5	cis-1,3-Dichloropropene	5U
	110-75-8	2-Chloroethylvinylether	10U
	75-25-2	Bromoform	5U
	127-18-4	Tetrachlorethane	5U
	79-34-5	1,1,2,2-Tetrachloroethane	5U
503	108-88-3	Toluene	3JB
	108-90-7	Chlorobenzene	5U
	100-41-4	Ethylbenzene	5U
	541-73-1	1,3-Dichlorobenzene	5U
	95-50-1	1,2-Dichlorobenzene	5U
	106-66-7	1,4-Dichlorobenzene	5U

Date Reported: 9/17/87

Data Reporting Qualifiers (E = % dev. of cont. cal. exceeds 25%)

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

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

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

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < the specified detection limit but > zero (e.g 10J) If limit of detection is 10 ug/l and a concentration of 3.0 ug/l is calculated, report as 3J.

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

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

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

Optional Flags

N - Compound not present in Calibration File.

S.C. McLendon, P.E.

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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759896
Sample I.D. #SW2

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit/Rfit	Scan	Estimated Conc. ug/l
124289	Carbon dioxide	100 99	14	230JB
541059	Hexamethylcyclotri-siloxane	96 86	645	750JB

Date Reported: 9/21/87

S.C. McLendon, P.E.
Laboratory Director

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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab Number 759897
Date Collected: 8/19/87 Date Received: 8/20/87
Sample I.D. Sample #SW 2 Conc. Factor: 500
Collected By: CL 99

Scan #	C.A.S. Number		ug/l	C.A.S. Number		ug/l	Scan #
	65-75-9	N-Nitrosodimethylamine	10U	83-32-9	Acenaphthene	10U	
	108-95-2	Phenol	10U	51-28-5	2,4-Dinitrophenol	50U	
	111-44-4	bis(2-Chloroethyl)ether	10U	100-02-7	4-Nitrophenol	50U	
	95-57-8	2-Chloropheonol	10U	121-14-2	2,4-Dinitrotoluene	10U	
	541-73-1	1,3-Dichlorobenzene	10U	606-20-2	2,6-Dinitrotoluene	10U	
	106-46-7	1,4-Dichlorobenzene	10U	84-66-2	Diethylphthalate	10U	
	95-50-1	1,2-Dichlorobenzene	10U	7005-72-3	4-Chlorophenyl-phenylether	10U	
	39638329	bis(2-chloroisopropyl)ether	10U	86-73-7	Fluorene	10U	
	621-64-7	N-Nitroso-di-n-propylamine	10U	534-52-1	4,6-Dinitro-2-Methylphenol	50U	
	67-72-1	Hexachloroethane	10U	86-30-6	N-Nitrososdiphenylamine 1)	10U	
	98-95-3	Nitrobenzene	10U				
	78-59-1	Isophorone	10U	101-55-3	4-Bromophenyl-phenylether	10U	
	88-75-5	2-Nitrophenol	10U	118-74-1	Hexachlorobenzene	10U	
	105-67-9	2,4-Dimethylphenol	10U	87-86-5	Pentachlorophenol	50U	
				85-01-8	Phenanthrene	10U	
	111-91-1	bis(2-Chloroethoxy)Methane	10U	120-12-7	Anthracene	10U	
	120-83-2	2,4-Dichlorophenol	10U	84-74-2	Di-n-Butylphthalate	10U	
	120-82-1	1,2,4-Trichlorobenzene	10U	206-44-0	Fluoranthene	10U	
	91-20-3	Naphthalene	10U	129-00-0	Pyrene	10U	
	87-68-3	Hexachlorobutadiene	10U	85-68-7	Butylbenzylphthalate	10U	
	59-50-7	4-Chloro-3-methylphenol	10U	91-94-1	3,3'-Dichlorobenzidine	20U	
				56-55-3	Benzo(a)Anthracene	10U	
	77-47-4	Hexachlorocyclopentadiene	10U	117-81-7	bis(2-Ethylhexyl)Phthalate	140B	1515
	88-06-2	2,4,6-Trichlorophenol	10U	218-01-9	Chrysene	10U	
				117-84-0	Di-n-Octyl Phthalate	10U	
	91-58-7	2-Chloronaphthalene	10U	205-99-2	Benzo(b)Fluoranthene	10U	
				207-08-9	Benzo(k)Fluoranthene	10U	
	131-11-3	Dimethyl Phthalate	10U	50-32-8	Benzo(a)Pyrene	10U	
	208-96-8	Acenaphthylene	10U	193-39-5	Indeno(1,2,3-cd)Pyrene	10U	
				53-70-3	Dibenzo(a,h)Anthracene	10U	
				191-24-2	Benzo(g,h,i)Perylene	10U	
				92-87-5	Benzidine	80U	

(1) - Cannot be separated from diphenylamine

Date Reported: 9/18/87

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S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759893
Sample I.D. #SW2

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit	Scan	Estimated Conc. ug/l
	Unknown		107	60J
	Unknown		185	44J
	Unknown		277	300J
62108263	2,6,8-Trimethyl decane	78	498	10J
21964498	1,13-Tetradecadiene	89	1249	100J
	Unknown		1634	16J

Date Reported: 9/18/87

S.C. McLendon, P.E.
Laboratory Director

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New Jersey DEP
65 Prospect St.
Trenton, NJ 08628

Lab No. 759898
Sample No. BSA 08197992
Sample I.D. SW-2
Concentration: Low Conc. Factor:167
Date Coll. 8/19/87 Date Rec. 8/20/87
Date Ext. 8/22/87 Date Anal. 9/10/87

C.A.S. NUMBER		ug/l
319-84-6	alpha-BHC	0.10U
319-87-7	beta-BHC	0.10U
319-86-8	delta-BHC	0.10U
58-89-8	gamma-BHC (Lindane)	0.10U
76-44-8	Heptachlor	0.10U
309-00-2	Aldrin	0.10U
1024-57-3	Heptachlor Epoxide	0.10U
959-98-8	Endosulfan I	0.10U
60-57-1	Dieldrin	0.20U
72-55-9	4,4'-DDE	0.20U
72-20-8	Endrin	0.20U
33213-65-9	Endosulfan II	0.20U
72-54-8	4,4'-DDD	0.20U
1031-07-8	Endosulfan Sulfate	0.20U
50-29-3	4,4'-DDT	0.20U
72-43-5	Methoxychlor	1.0U
53494-70-5	Endrin Ketone	0.20U
57-74-9	Chlordane	1.0U
8001-35-2	Toxaphene	2.0U
12674-11-2	Aroclor 1016	1.0U
11104-28-2	Aroclor 1221	1.0U
11141-16-5	Aroclor 1232	1.0U
53469-21-9	Aroclor 1242	1.0U
12672-29-6	Aroclor 1248	1.0U
11097-69-1	Aroclor 1254	2.0U
11096-82-5	Aroclor 1260	0.4J

Vi = Volume of extract injected (uL)
Vs = Volume of water extracted (mL)
Vt = Volume of total extract (mL)
Ws = Weight of sample extracted (g)

Vs = 500 mL Vt = 3 mL Vi = 5 uL Ws = g

Date Reported: 9/30/87

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S.C. McLendon, P.E.
Laboratory Director

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New Jersey DEP
65 Prospect Street
Trenton, NJ 08628

Sample Lab No. 759898
Sample I.D. SW-2

Tentatively Identified Compounds

C.A.S. Number	Compound Name	Frac.	RT	Estimated Conc. ug/L
	No unknowns found	PEST		0.40U

Date Reported: 9/30/87

S.C. McLendon, P.E.
Laboratory Director

11D

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Environmental Testing Laboratories
575 Broad Hollow Road, Melville, New York 11747-5076 • (516) 694-3040

Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 759899

PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS

NEW JERSEY D.E.P.

65 PROSPECT ST.

TRENTON, NEW JERSEY 08618

TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL 99
DATE COLLECTED - 8/19/87 DATE RECEIVED - 8/19/87

NJDEP SAMPLE #BSA 08197992
NJDEP SAMPLE POINT ID# SW2
AQUEOUS SAMPLE

PARAMETER	RESULT		PARAMETER	RESULT
ANTIMONY	<60.0 #	NE	SELENIUM	<5.00#
ARSENIC	<10.0 #		SILVER	<10.0 #
BERYLLIUM	<5.00#		THALLIUM	<10.0 #
CADMIUM	<5.00#	NE	ZINC	30.0 #
CHROMIUM	<10.0 #	NE	PHENOLS	4.00#
COPPER	<20.0 #		CYANIDE	<10.0 #
LEAD	<5.00#			
MERCURY	<0.20#	NE		
NICKEL	<40.0 #			

ALL RESULTS IN (MG/L.) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L.)

DATE REPORTED 9/16/87

LABORATORY DIRECTOR

THE LIABILITY OF H2M LABS, INC. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759900
Date Collected: 8/19/87 Date Received: 8/20/87
Type: Misc. Collected By: CL 99
Sample I.D. Field Blank

Scan No.	C.A.S. No.		ug/l	Scan No.	C.A.S. No.		ug/l
25	74-87-3	Chloromethane	448		78-87-5	1,2-Dichloropropane	5U
39	74-83-9	Bromomethane	13		10061-02-6	Trans-1,3-Dichloropropene	5U
	75-01-4	Vinyl Chloride	10U		79-01-6	Trichloroethane	5U
	75-00-3	Chloroethane	10U		124-48-1	Dibromochloromethane	5U
91	75-09-2	Methylene Chloride	16B		79-00-5	1,1,2-Trichloroethane	5U
				342	71-43-2	Benzene	1J
					10061-01-5	cis-1,3-Dichloropropene	5U
	75-35-4	1,1-Dichloroethene	5U		110-75-8	2-Chloroethylvinylether	10U
	75-34-3	1,1-Dichloroethane	5U		75-25-2	Bromoform	5U
	156-60-5	Trans-1,2-Dichloroethene	5U		472127-18-4	Tetrachlorethane	5U
	67-66-3	Chloroform	5U				
	107-06-2	1,2-Dichloroethane	5U				
	75-69-4	Trchlorofluormethane	5U		79-34-5	1,1,2,2-Tetrachloroethane	5U
	71-55-6	1,1,1-Trichloroethane	5U	502	108-88-3	Toluene	4JB
	56-23-6	Carbon Tetrachloride	5U		108-90-7	Chlorobenzene	5U
					100-41-4	Ethylbenzene	5U
271	75-27-4	Bromodichloromethane	1BJ		541-73-1	1,3-Dichlorobenzene	5U
					95-50-1	1,2-Dichlorobenzene	5U
					106-66-7	1,4-Dichlorobenzene	5U

Date Reported: 9/17/87

Data Reporting Qualifiers (E = % dev. of cont. cal. exceeds 25%)

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

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

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

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < the specified detection limit but > zero (e.g 10J) If limit of detection is 10 ug/l and a concentration of 3.0 ug/l is calculated, report as 3J.

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

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

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

Optional Flags

N - Compound not present in Calibration File.

S.C. McLendon, P.E.

H2M LABS, INC.
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HOLZMACHER, McLENDON and MURRELL, P.C. • **ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES**

NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759900
Sample I.D. #Field Blank

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit/Rfit	Scan	Estimated Conc. ug/l
124289	Carbon dioxide	100 100	15	46JB
541059	Hexamethylcyclotri-siloxane	97 89	645	680JB

Date Reported: 9/21/87

S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab Number 759901
Date Collected: 8/19/87 Date Received: 8/20/87
Sample I.D. Sample #Field Blank Conc. Factor: 500
Collected By: CL 99

Scan #	C.A.S. Number		ug/l	C.A.S. Number		ug/l	Scan #
	65-75-9	N-Nitrosodimethylamine	10U	83-32-9	Acenaphthene	10U	
	108-95-2	Phenol	10U	51-28-5	2,4-Dinitrophenol	50U	
	111-44-4	bis(2-Chloroethyl)ether	10U	100-02-7	4-Nitrophenol	50U	
	95-57-8	2-Chloropheonol	10U	121-14-2	2,4-Dinitrotoluene	10U	
	541-73-1	1,3-Dichlorobenzene	10U	606-20-2	2,6-Dinitrotoluene	10U	
	106-46-7	1,4-Dichlorobenzene	10U	84-66-2	Diethylphthalate	10U	
	95-50-1	1,2-Dichlorobenzene	10U	7005-72-3	4-Chlorophenyl-phenylether	10U	
	39638329	bis(2-chloroisopropyl)ether	10U	86-73-7	Fluorene	10U	
	621-64-7	N-Nitroso-di-n-propylamine	10U	534-52-1	4,6-Dinitro-2-Methylphenol	50U	
	67-72-1	Hexachloroethane	10U	86-30-6	N-Nitrososdiphenylamine 1)	10U	
	98-95-3	Nitrobenzene	10U				
	78-59-1	Isophorone	10U	101-55-3	4-Bromophenyl-phenylether	10U	
	88-75-5	2-Nitrophenol	10U	118-74-1	Hexachlorobenzene	10U	
	105-67-9	2,4-Dimethylphenol	10U	87-86-5	Pentachlorophenol	50U	
				85-01-8	Phenanthrene	10U	
	111-91-1	bis(2-Chloroethoxy)Methane	10U	120-12-7	Anthracene	10U	
	120-83-2	2,4-Dichlorophenol	10U	84-74-2	Di-n-Butylphthalate	10U	
	120-82-1	1,2,4-Trichlorobenzene	10U	206-44-0	Fluoranthene	10U	
	91-20-3	Naphthalene	10U	129-00-0	Pyrene	10U	
	87-68-3	Hexachlorobutadiene	10U	85-68-7	Butylbenzylphthalate	10U	
	59-50-7	4-Chloro-3-methylphenol	10U	91-94-1	3,3'-Dichlorobenzidine	20U	
				56-55-3	Benzo(a)Anthracene	10U	
	77-47-4	Hexachlorocyclopentadiene	10U	117-81-7	bis(2-Ethylhexyl)Phthalate	96B	1516
	88-06-2	2,4,6-Trichlorophenol	10U	218-01-9	Chrysene	10U	
				117-84-0	Di-n-Octyl Phthalate	10U	
	91-58-7	2-Chloronaphthalene	10U	205-99-2	Benzo(b)Fluoranthene	10U	
				207-08-9	Benzo(k)Fluoranthene	10U	
	131-11-3	Dimethyl Phthalate	10U	50-32-8	Benzo(a)Pyrene	10U	
	208-96-8	Acenaphthylene	10U	193-39-5	Indeno(1,2,3-cd)Pyrene	10U	
				53-70-3	Dibenzo(a,h)Anthracene	10U	
				191-24-2	Benzo(g,h,i)Perylene	10U	
				92-87-5	Benzidine	80U	

(1) - Cannot be separated from diphenylamine

Date Reported: 9/18/87

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S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759901
Sample I.D. #Field Blank

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit	Scan	Estimated Conc. ug/l
	Unknown		186	46J
	Unknown		275	88J
	Unknown		504	14J
	Unknown		1152	18J
21964498	1,13-Tetradecadiene	89	1251	110J
	Unknown		1635	8J

Date Reported: 9/18/87

S.C. McLendon, P.E.
Laboratory Director

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New Jersey DEP
65 Prospect St.
Trenton, NJ 08628

Lab No. 759902
Sample No. Field Blank
Sample I.D. Aqueous Field Blank
Concentration: Low Conc. Factor:167
Date Coll. 8/19/87 Date Rec. 8/20/87
Date Ext. 8/22/87 Date Anal.9/10,14/87

C.A.S. NUMBER		ug/l
319-84-6	alpha-BHC	0.10U
319-87-7	beta-BHC	0.10U
319-86-8	delta-BHC	0.10U
58-89-8	gamma-BHC (Lindane)	0.10U
76-44-8	Heptachlor	0.10U
309-00-2	Aldrin	0.10U
1024-57-3	Heptachlor Epoxide	0.10U
959-98-8	Endosulfan I	0.10U
60-57-1	Dieldrin	0.20U
72-55-9	4,4'-DDE	0.20U
72-20-8	Endrin	0.20U
33213-65-9	Endosulfan II	0.20U
72-54-8	4,4'-DDD	0.20U
1031-07-8	Endosulfan Sulfate	0.20U
50-29-3	4,4'-DDT	0.20U
72-43-5	Methoxychlor	1.0U
53494-70-5	Endrin Ketone	0.20U
57-74-9	Chlordane	1.0U
8001-35-2	Toxaphene	2.0U
12674-11-2	Aroclor 1016	1.0U
11104-28-2	Aroclor 1221	1.0U
11141-16-5	Aroclor 1232	1.0U
53469-21-9	Aroclor 1242	1.0U
12672-29-6	Aroclor 1248	1.0U
11097-69-1	Aroclor 1254	2.0U
11096-82-5	Aroclor 1260	2.0U

Vi = Volume of extract injected (uL)
Vs = Volume of water extracted (mL)
Vt = Volume of total extract (mL)
Ws = Weight of sample extracted (g)

Vs = 500 mL Vt = 3 mL Vi = 5 uL Ws = g

Date Reported: 9/30/87

J.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
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HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

New Jersey DEP
65 Prospect Street
Trenton, NJ 08628

Sample Lab No. 759902
Sample I.D. Field Blank

Tentatively Identified Compounds

C.A.S. Number	Compound Name	Frac.	RT	Estimated Conc. ug/L
	Unknown	PEST	3.17	1.0J
	"	"	3.80	2.0J

Date Reported: 9/30/87

S.C. McLendon, P.E.
Laboratory Director

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Environmental Testing Laboratories
575 Broad Hollow Road, Melville, New York 11747-5076 • (516) 694-3040

Water/Waste Water Laboratory • Hazardous Waste Laboratory • Air Testing Laboratory
Pilot Plant Studies and Other Analytical Services

LABORATORY REPORT

LAB NO. 759903

PROJECT NO. 2C

CLIENT'S NAME AND ADDRESS	
NEW JERSEY D.E.P. 65 PROSPECT ST. TRENTON, NEW JERSEY 08618	TYPE OF SAMPLE - MISCELLANEOUS COLLECTED BY CL 99 DATE COLLECTED - 8/19/87 DATE RECEIVED - 8/20/87 NJDEP SAMPLE POINT ID# FIELD BLANK AQUEOUS SAMPLE

PARAMETER	RESULT		PARAMETER	RESULT
ANTIMONY	<60.0 #	NE	SELENIUM	<5.00#
ARSENIC	<10.0 #		SILVER	<10.0 #
BERYLLIUM	<5.00#		THALLIUM	<10.0 #
CADMIUM	<5.00#	NE	ZINC	<20.0 #
CHROMIUM	<10.0 #	NE	PHENOLS	<1.00#
COPPER	<20.0 #		CYANIDE	<10.0 #
LEAD	<5.00#			
MERCURY	<0.20#	NE		
NICKEL	<40.0 #			

ALL RESULTS IN (MG/L.) EXCEPT AS NOTED BY # (UG/L) OR % (PERCENT) AND
T.COLI BACT. & FECAL COLI (MPN/100ML)
COLOR, ODOR, TURBIDITY & PH (UNITS)
APC & FECAL STREP (COUNTS/ML)
SPEC.COND. (UMHOS) SETT.SOLIDS(ML/L)

DATE REPORTED 9/16/87

LABORATORY DIRECTOR

THE LIABILITY OF H2M LABS, INC. SHALL BE LIMITED TO THE PRICE OF THE SERVICE RENDERED AND PAID.

H2M LABS, INC.
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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759904
Date Collected: 8/19/87 Date Received: 8/20/87
Type: Misc. Collected By: CL 99
Sample I.D. Trip Blank

Scan No.	C.A.S. No.		ug/l	Scan No.	C.A.S. No.		ug/l
26	74-87-3	Chloromethane	102		78-87-5	1,2-Dichloropropane	5U
42	74-83-9	Bromomethane	11		10061-02-6	Trans-1,3-Dichloropropene	5U
	75-01-4	Vinyl Chloride	10U		79-01-6	Trichloroethane	5U
	75-00-3	Chloroethane	10U		124-48-1	Dibromochloromethane	5U
96	75-09-2	Methylene Chloride	37B		79-00-5	1,1,2-Trichloroethane	5U
				342	71-43-2	Benzene	6
					10061-01-5	cis-1,3-Dichloropropene	5U
	75-35-4	1,1-Dichloroethene	5U		110-75-8	2-Chloroethylvinylether	10U
	75-34-3	1,1-Dichloroethane	5U		75-25-2	Bromoform	5U
	156-60-5	Trans-1,2-Dichloroethene	5U		472127-18-4	Tetrachlorethane	5U
	67-66-3	Chloroform	5U				
	107-06-2	1,2-Dichloroethane	5U				
	75-69-4	Trchlorofluormethane	5U		79-34-5	1,1,2,2-Tetrachloroethane	5U
	71-55-6	1,1,1-Trichloroethane	5U		108-88-3	Toluene	5U
	56-23-6	Carbon Tetrachloride	5U	532	108-90-7	Chlorobenzene	2J
					100-41-4	Ethylbenzene	5U
	75-27-4	Bromodichloromethane	5U		541-73-1	1,3-Dichlorobenzene	5U
					95-50-1	1,2-Dichlorobenzene	5U
					106-66-7	1,4-Dichlorobenzene	5U

Date Reported: 9/17/87

Data Reporting Qualifiers (E = % dev. of cont. cal. exceeds 25%)

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

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

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

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < the specified detection limit but > zero (e.g 10J) If limit of detection is 10 ug/l and a concentration of 3.0 ug/l is calculated, report as 3J.

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

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

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

Optional Flags

N - Compound not present in Calibration File.

S.C. McLendon, P.E.

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H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759904
Sample I.D. #Trip Blank

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit/Rfit	Scan	Estimated Conc. ug/l
124289	Carbon dioxide	99 98	15	430JB
541059	Hexamethylcyclotri-siloxane	97 88	646	1000JB

Date Reported: 9/21/87

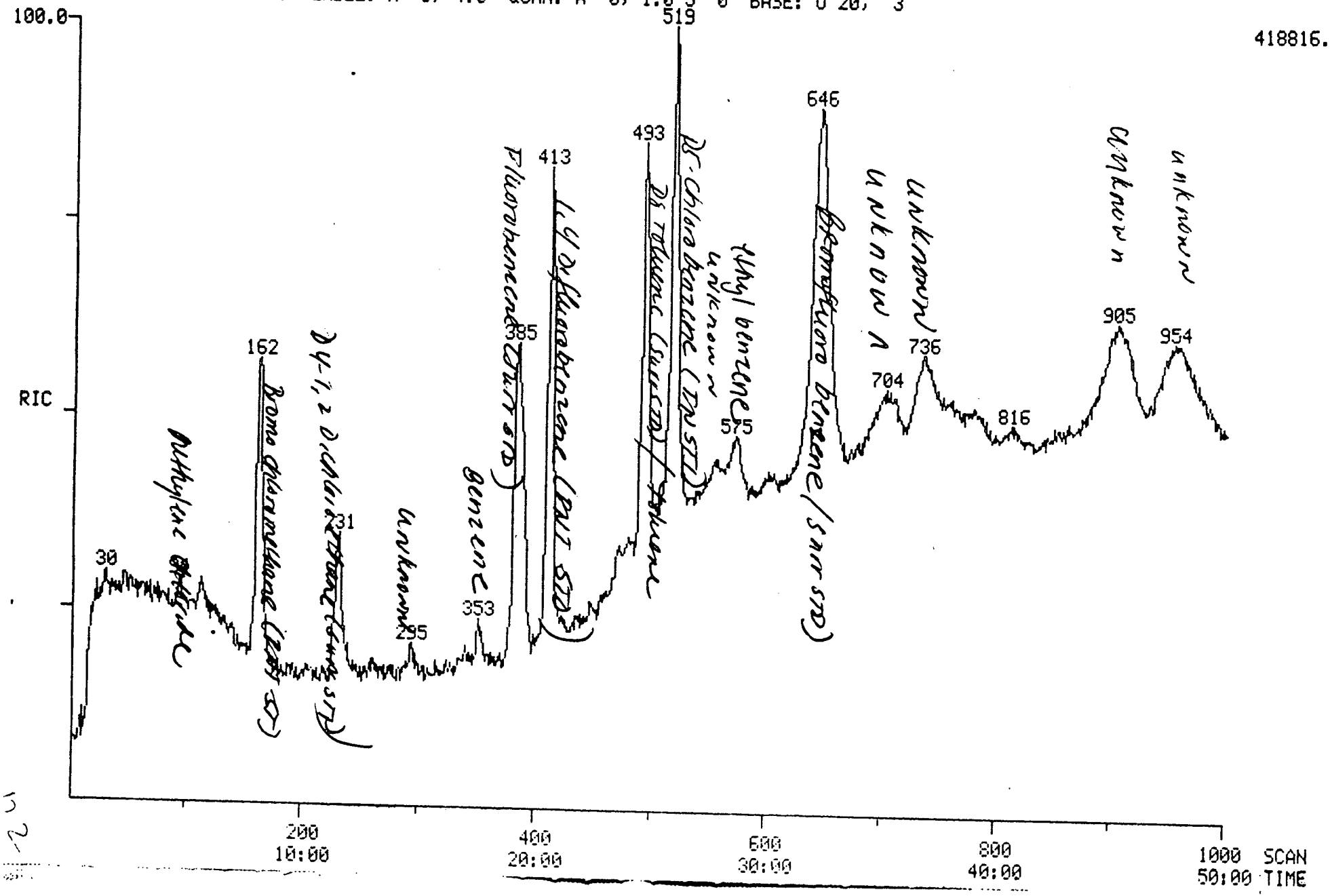
S.C. McLendon, P.E.
Laboratory Director

III. 2. Reporting Package for
NJDEP # GW1

RIC
08/26/87 19:31:00
SAMPLE: 1ML #BSA 08197890
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU7415 #505
CALI: PU7415 #2

SCANS 1 TO 1000



QUANTITATION REPORT FILE: PU7415

DATA: PU7415.TI
0/26/87 19:31:00
SAMPLE: 1ML #BSA 08197890
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

NO	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C) .
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

NO	M/Z	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT	
1	128	162	8:06	1	1.000	A BB	140477.	30.000 UG/L	5.70	
2	65	231	11:33	1	1.426	A BB	164644.	25.699 UG/L	4.89	
3	NOT FOUND									
4	94	24	1:12	1	0.148	A BV	2222.	~~1.457 UG/L~~	~~0.28~~	MIS IDENT
5	62	38	1:54	1	0.235	A*BB	1867.	0.391 UG/L	0.07	
6	64	53	2:39	1	0.327	A*BB	4602.	0.712 UG/L	0.14	
7	84	94	4:42	1	0.580	A VV	23868.	2.700 UG/L	0.51	148.
~~8~~	~~43~~	~~70~~	~~4:30~~	~~1~~	~~0.556~~	~~A*BB~~	~~12274.~~	~~0.903 UG/L~~	~~0.17~~	
~~9~~	~~76~~	~~81~~	~~4:03~~	~~1~~	~~0.500~~	~~A*BB~~	~~2858.~~	~~1.919 UG/L~~	~~0.36~~	
10	96	152	7:36	1	0.938	A VB	5993.	0.637 UG/L	0.12	
11	63	191	9:33	1	1.179	A*BB	1862.	0.124 UG/L	0.02	
12	96	204	10:12	1	1.259	A VB	457.	0.050 UG/L	0.01	
13	83	212	10:36	1	1.309	A*BB	5181.	0.338 UG/L	0.06	
14	62	233	11:39	1	1.438	A*BB	1767.	0.108 UG/L	0.02	
15	101	150	7:30	1	0.926	A BB	2513.	0.155 UG/L	0.03	
~~16~~	~~85~~	~~50~~	~~2:30~~	~~1~~	~~0.309~~	~~A*BB~~	~~2683.~~	~~12.898 UG/L~~	~~2.45~~	
~~17~~	~~56~~	~~159~~	~~7:57~~	~~1~~	~~0.981~~	~~A*BV~~	~~3425.~~	~~114.730 UG/L~~	~~21.82~~	
~~18~~	~~53~~	~~166~~	~~8:18~~	~~1~~	~~1.025~~	~~A BB~~	~~2318.~~	~~93.739 UG/L~~	~~17.83~~	
19	114	412	20:38	19	1.000	A BB	616411.	30.000 UG/L	5.70	

123

~~20~~	~~43~~	~~176~~	~~8:48~~	~~19~~	~~0.426~~	~~A BB~~	~~2894.~~	~~18.015 UG/L~~	~~3.43~~	
21	97	232	11:36	19	0.562	A*BB	2565.	0.657 UG/L	0.12	
22	117	248	12:24	19	0.600	A*BV	3474.	~~1.740 UG/L~~	~~0.33~~	MIS IDENT
~~23~~	~~43~~	~~266~~	~~13:18~~	~~19~~	~~0.644~~	~~A BB~~	~~2428.~~	~~33.041 UG/L~~	~~6.28~~	
24	83	272	13:36	19	0.659	A*BB	2673.	0.466 UG/L	0.09	
25	NOT	FOUND								
26	75	308	15:24	19	0.746	A BV	3136.	0.590 UG/L	0.11	
27	130	332	16:36	19	0.804	A*BV	2869.	0.258 UG/L	0.05	
28	129	345	17:15	19	0.835	A*BB	2325.	0.365 UG/L	0.07	
29	97	348	17:24	19	0.843	A*VV	2340.	0.309 UG/L	0.06	
30	78	~~340~~ 354	17:00	19	0.823	A VB	~~1123~~ 66070	~~0.046 UG/L~~	~~0.01~~	14J
31	75	354	17:42	19	0.857	A BV	4374.	~~1.210 UG/L~~	~~0.23~~	MIS, IDENT
32	63	375	18:45	19	0.908	A BB	566.	0.041 UG/L	0.01	
33	173	414	20:42	19	1.002	A*BB	2953.	~~0.683 UG/L~~	~~0.13~~	
34	117	519	25:57	34	1.000	A BB	500757.	30.000 UG/L	5.70	
~~35~~	~~43~~	~~295~~	~~14:45~~	~~34~~	~~0.568~~	~~A*BB~~	~~5190.~~	~~12.858 UG/L~~	~~2.45~~	
~~36~~	~~43~~	~~330~~	~~16:30~~	~~34~~	~~0.636~~	~~A*VV~~	~~13442.~~	~~16.804 UG/L~~	~~3.20~~	
37	164	447	22:21	34	0.861	A*BV	2810.	0.320 UG/L	0.06	
38	NOT	FOUND								
39	92	498	24:54	34	0.960	A VB	41177.	2.690 UG/L	0.51	14B.
40	112	544	27:12	34	1.048	A BV	1635.	0.073 UG/L	0.01	
41	106	~~617~~ 578	30:51	34	1.189	A*BB	~~3379~~ 60263	0.305 UG/L	0.06	27
~~42~~	~~104~~	~~599~~	~~29:57~~	~~34~~	~~1.154~~	~~A BB~~	1887.	6.511 UG/L	1.24	
~~43~~	~~106~~	~~622~~	~~31:06~~	~~34~~	~~1.198~~	~~A*BB~~	~~4501.~~	~~17.156 UG/L~~	~~3.64~~	
~~44~~	~~106~~	~~622~~	~~31:06~~	~~34~~	~~1.198~~	~~A*BB~~	~~4501.~~	~~38.311 UG/L~~	~~7.29~~	
45	146	836	41:48	34	1.611	A BB	2066.	0.130 UG/L	0.02	
46	146	879	43:57	34	1.694	A*VB	6575.	0.379 UG/L	0.07	
47	146	887	44:21	34	1.709	A BB	1417.	0.073 UG/L	0.01	
48	96	384	19:12	34	0.740	A BB	497718.	22.196 UG/L	4.22	
49	95	646	32:18	34	1.245	A BB	390868.	23.592 UG/L	4.49	

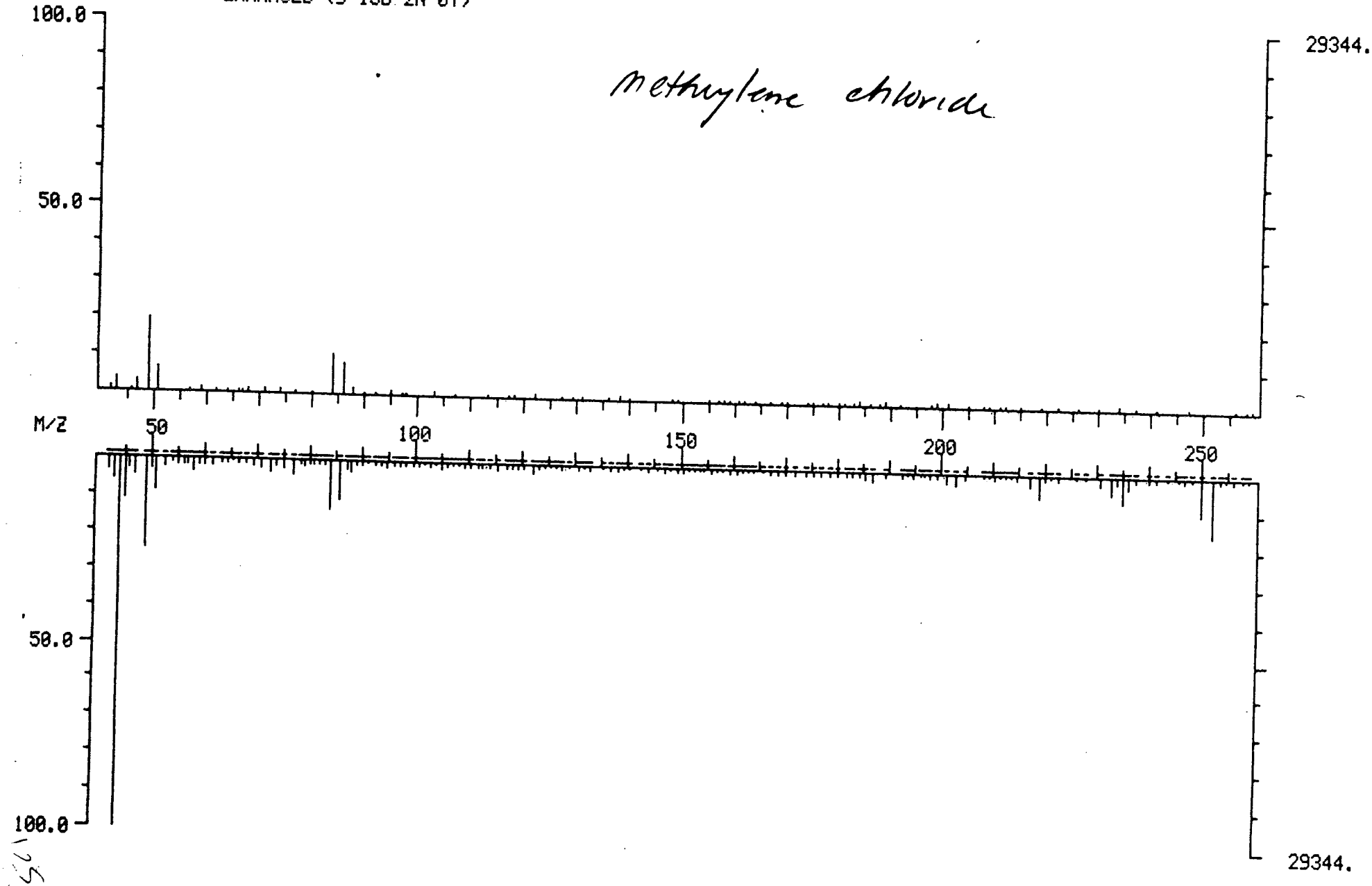
Non Targeted Compounds

	Scan #	Ret pk	Area	Amt (ug/L)	
1.	~~285~~ 285	19	189184	18 J	
2.	~~353~~ 353	19	~~154574~~ 154574	~~15 J~~ 15 J	Benzene
3	554	34	283342	22 J	
4	575	34	~~422744~~ 422744	~~33 J~~ 33 J	E.B
5	704	34	522751	41 J	
6	736	34	459199	36 J	
7.	905	34	756479	59 J	
8.	954	34	872832	68 J	
9.					

DUAL MASS SPECTRUM
08/26/87 19:31:00 + 4:42
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 #94
CALI: PU7415 #2

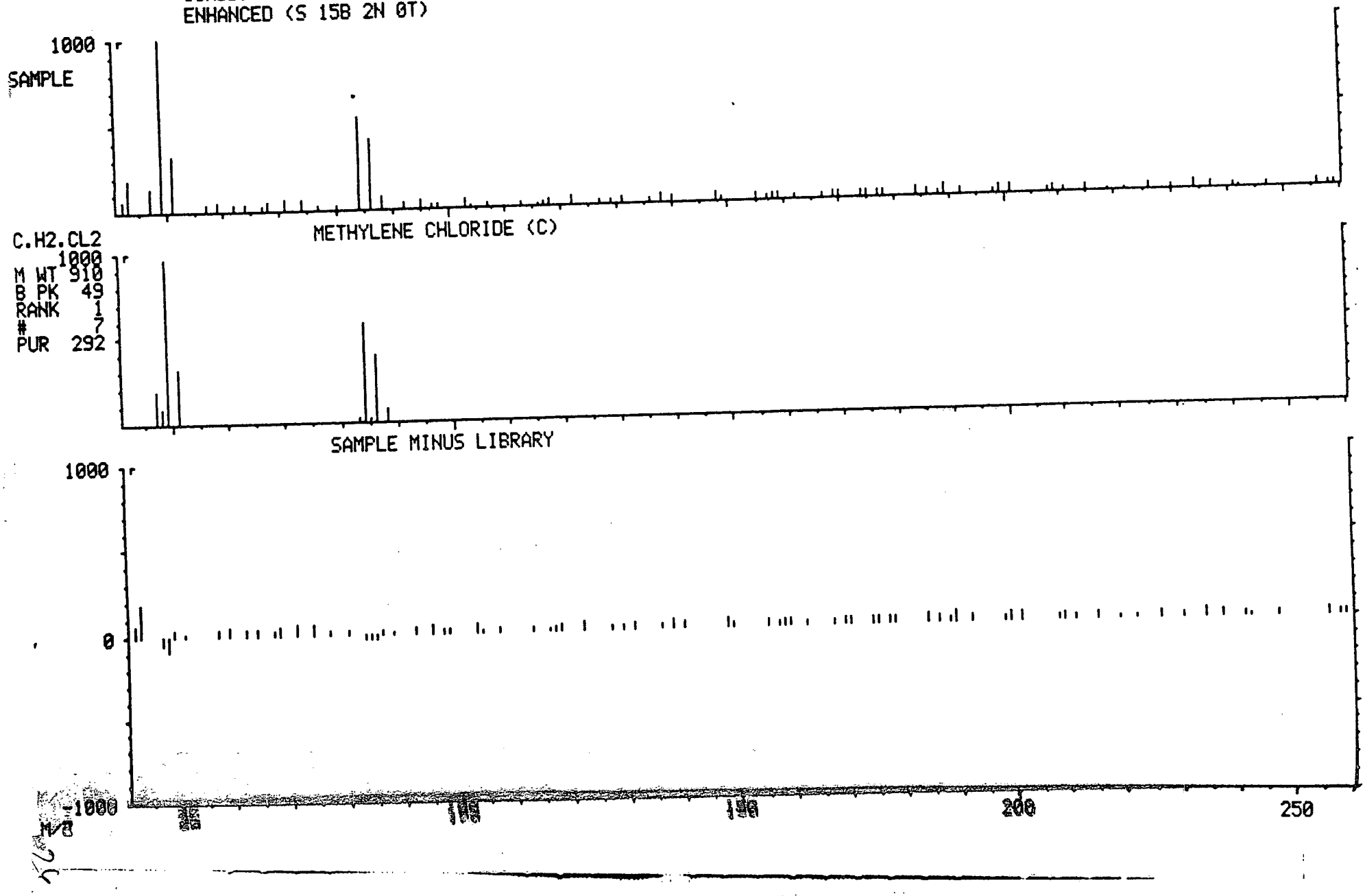
BASE M/Z: 49/ 44
RIC: 30343./ 122111.



LIBRARY SEARCH
08/26/87 19:31:00 + 4:42
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 # 94
CALI: PU7415 # 2

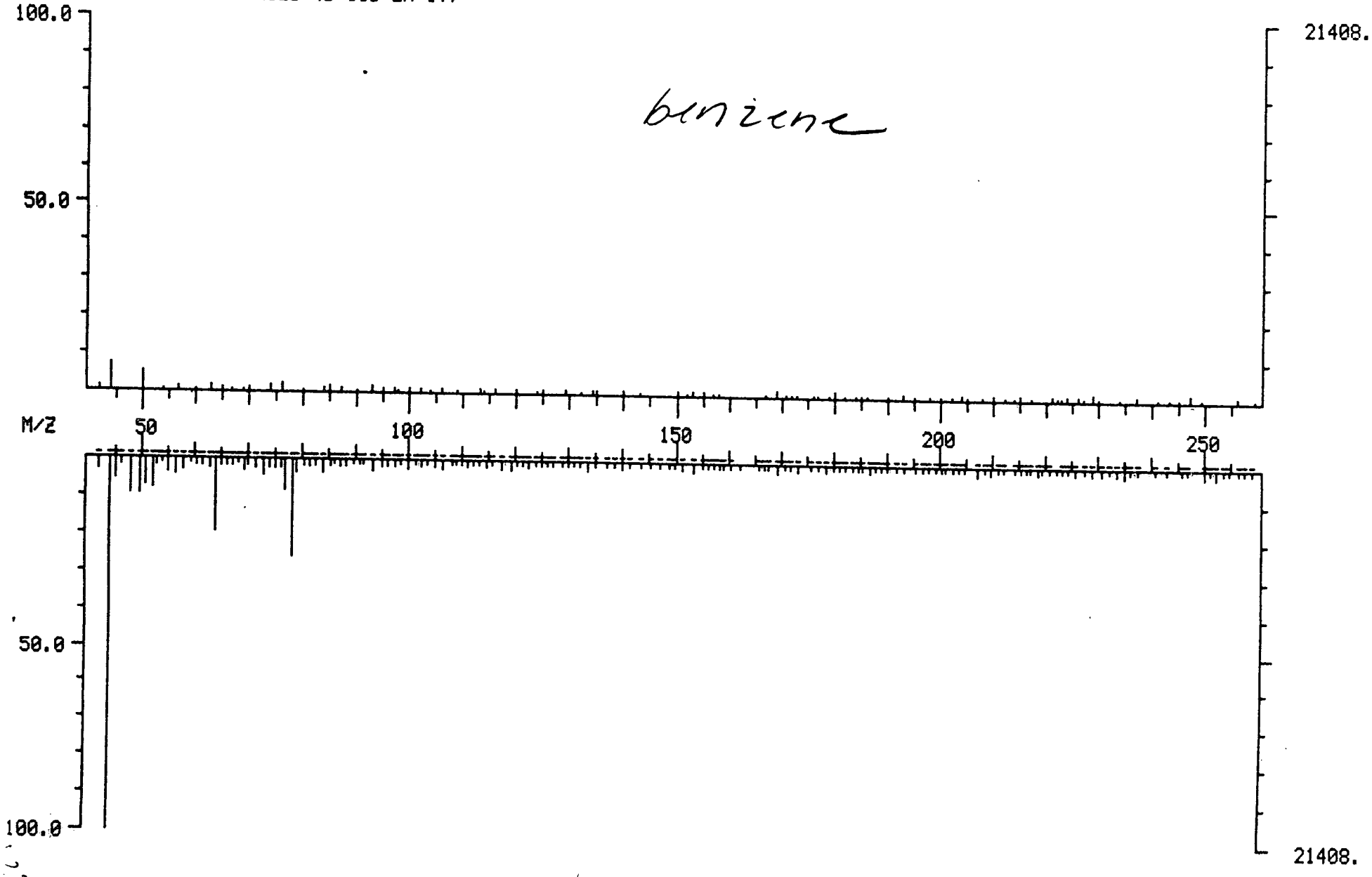
BASE M/Z: 49
RIC: 29279.



DUAL MASS SPECTRUM
08/26/87 19:31:00 + 17:48
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 #356
CALI: PU7415 #2

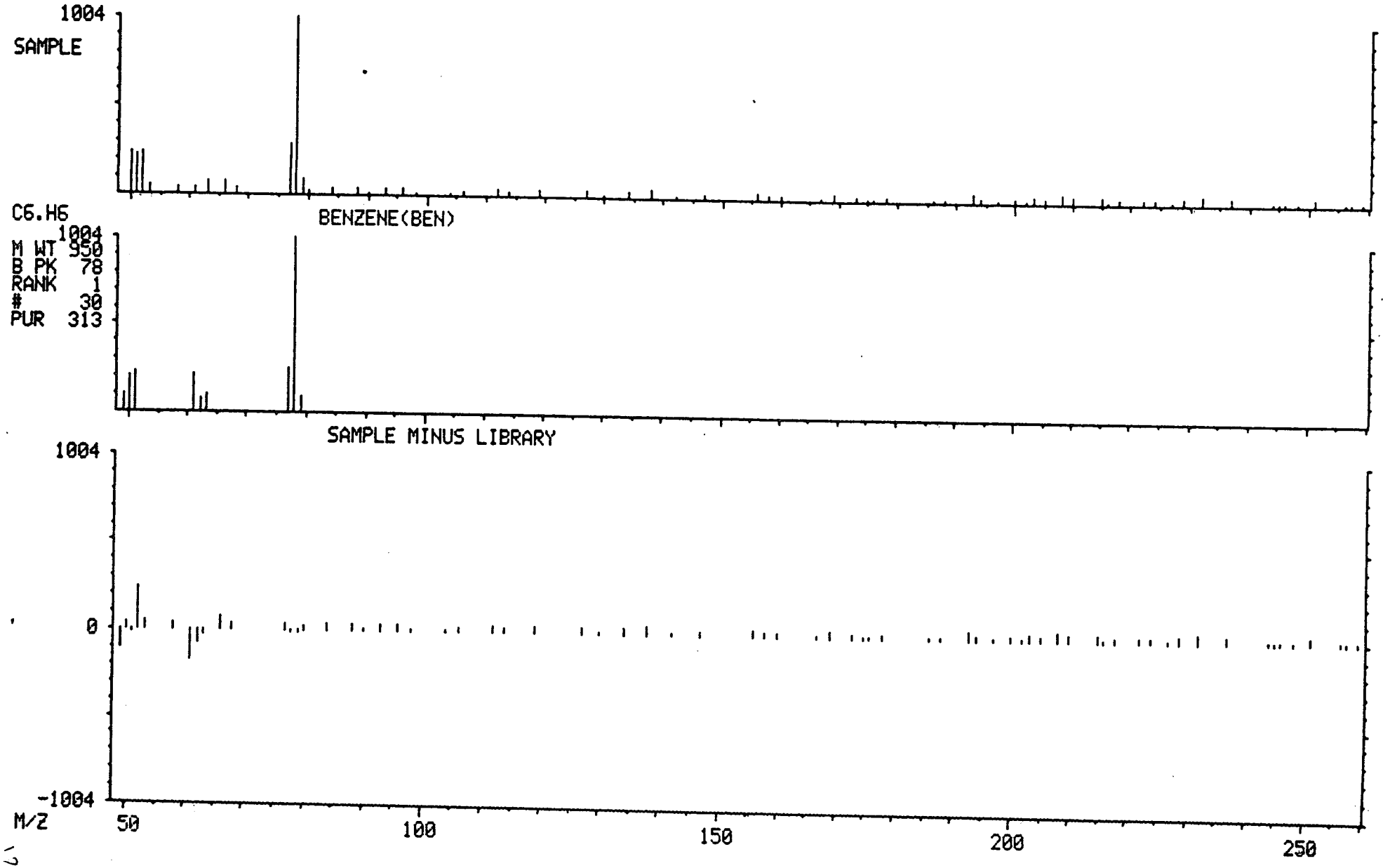
BASE M/Z: 44/ 44
RIC: 20095./ 92159.



LIBRARY SEARCH
08/26/87 19:31:00 + 17:45
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 # 355
CALI: PU7415 # 2

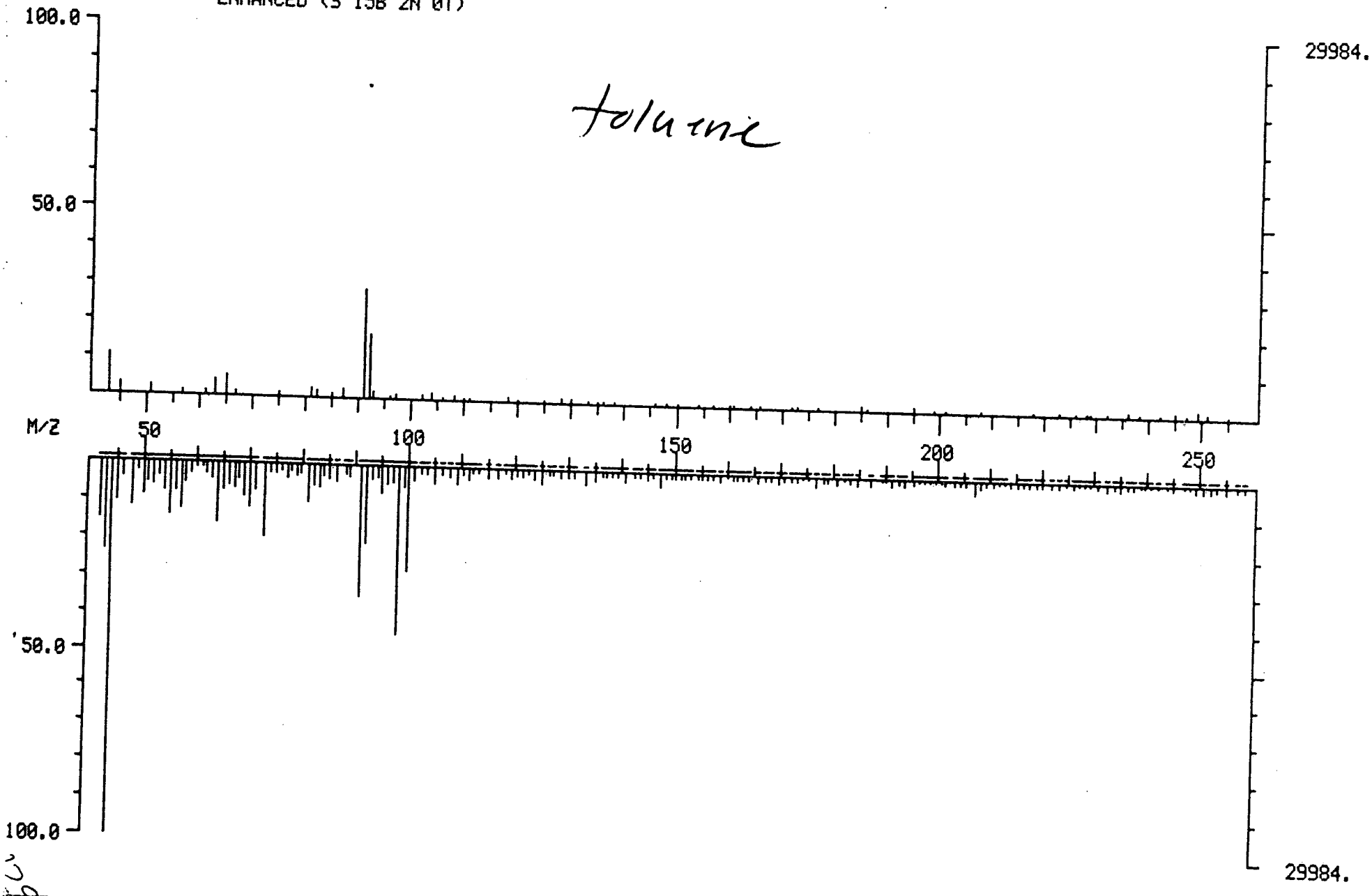
BASE M/Z: 78
RIC: 24927.

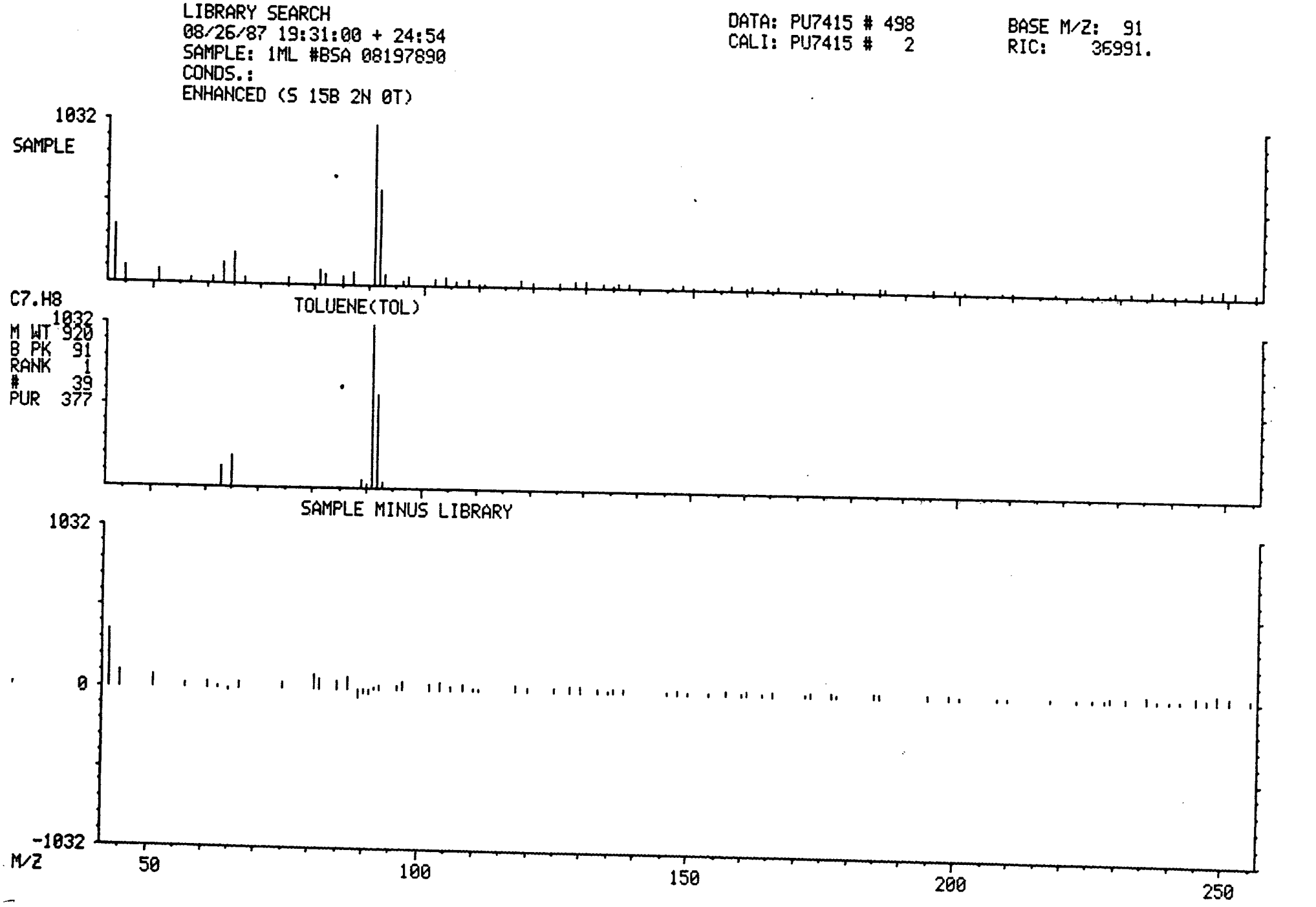


DUAL MASS SPECTRUM
08/26/87 19:31:00 + 24:54
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 #498
CALI: PU7415 #2

BASE M/Z: 91/ 44
RIC: 36991./ 215551.

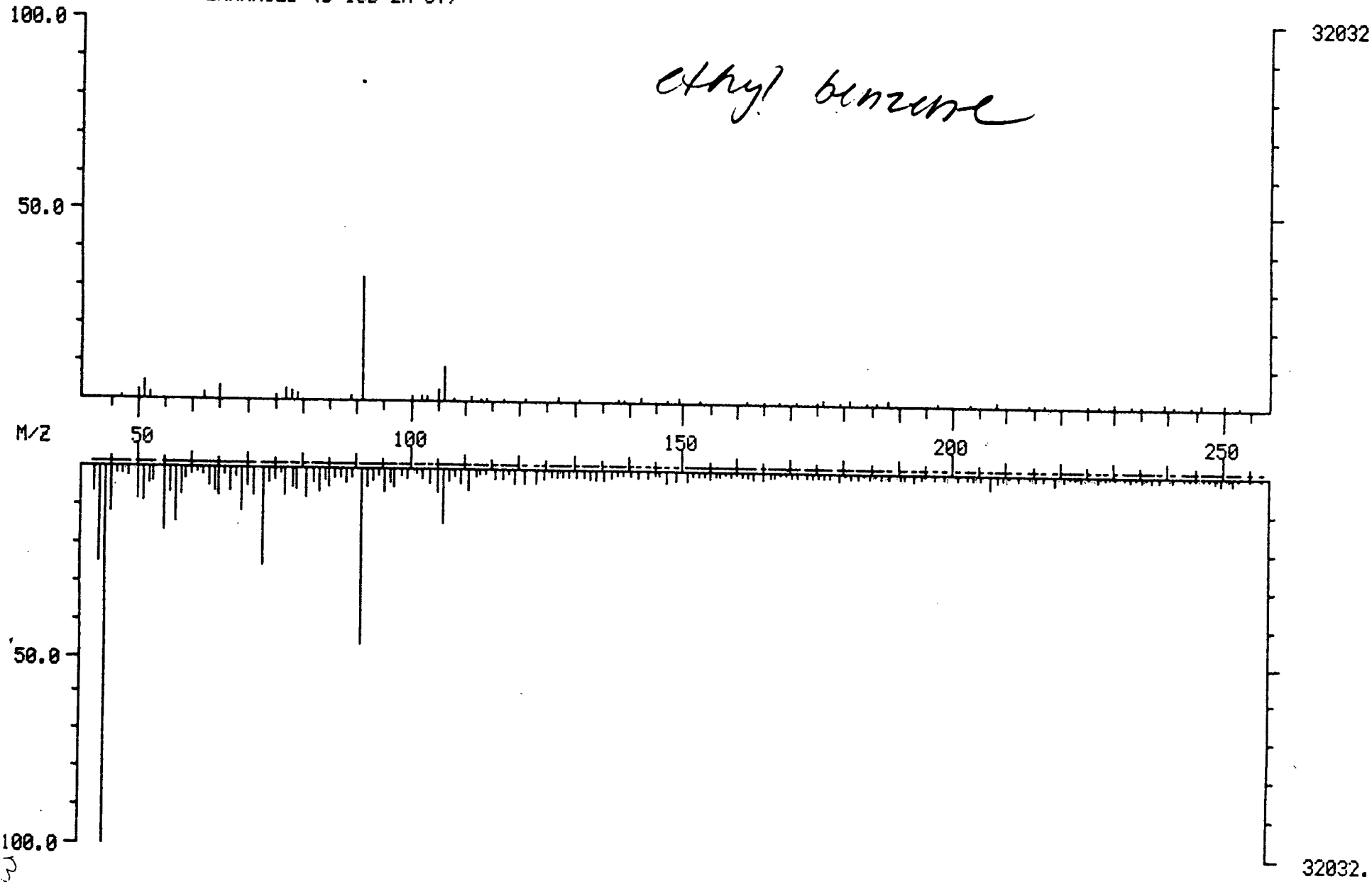



LIBRARY SEARCH
08/26/87 19:31:00 + 24:54
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)
DATA: PU7415 # 498
CALI: PU7415 # 2
BASE M/Z: 91
RIC: 36991.
1032
SAMPLE
C7.H8
TOLUENE(TOL)
M WT 920
B PK 91
RANK 1
39
PUR 377
SAMPLE MINUS LIBRARY
0
-1032
M/Z
50
100
150
200
250

DUAL MASS SPECTRUM
08/26/87 19:31:00 + 28:48
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 #576
CALI: PU7415 #2

BASE M/Z: 91/ 44
RIC: 32511./ 198655.

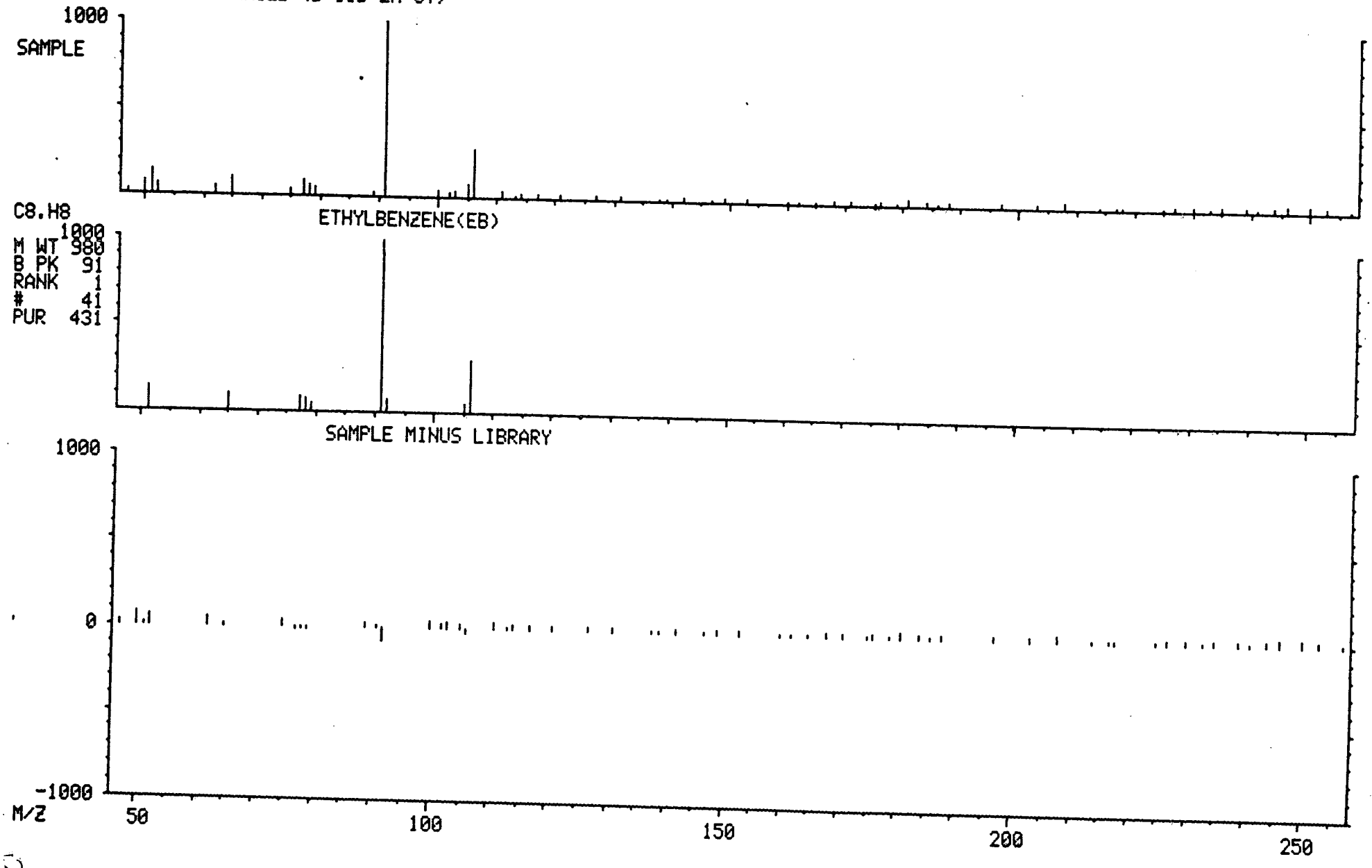


ethyl benzene

LIBRARY SEARCH
08/26/87 19:31:00 + 28:48
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 # 576
CALI: PU7415 # 2

BASE M/Z: 91
RIC: 32223.

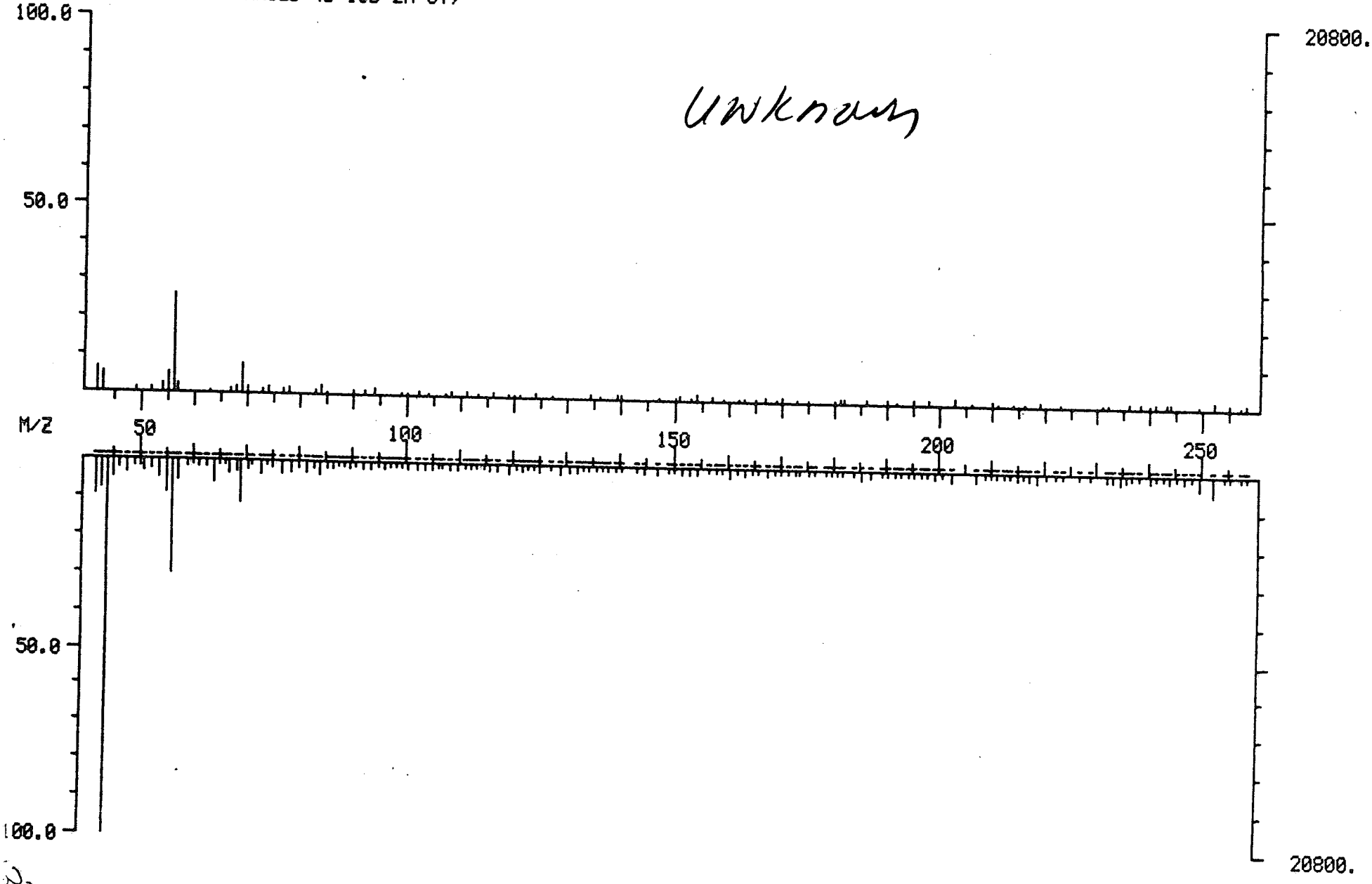


DUAL MASS SPECTRUM
08/26/87 19:31:00 + 14:45
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 #295
CALI: PU7415 #2

BASE M/Z: 56/ 44
RIC: 27647./ 88063.

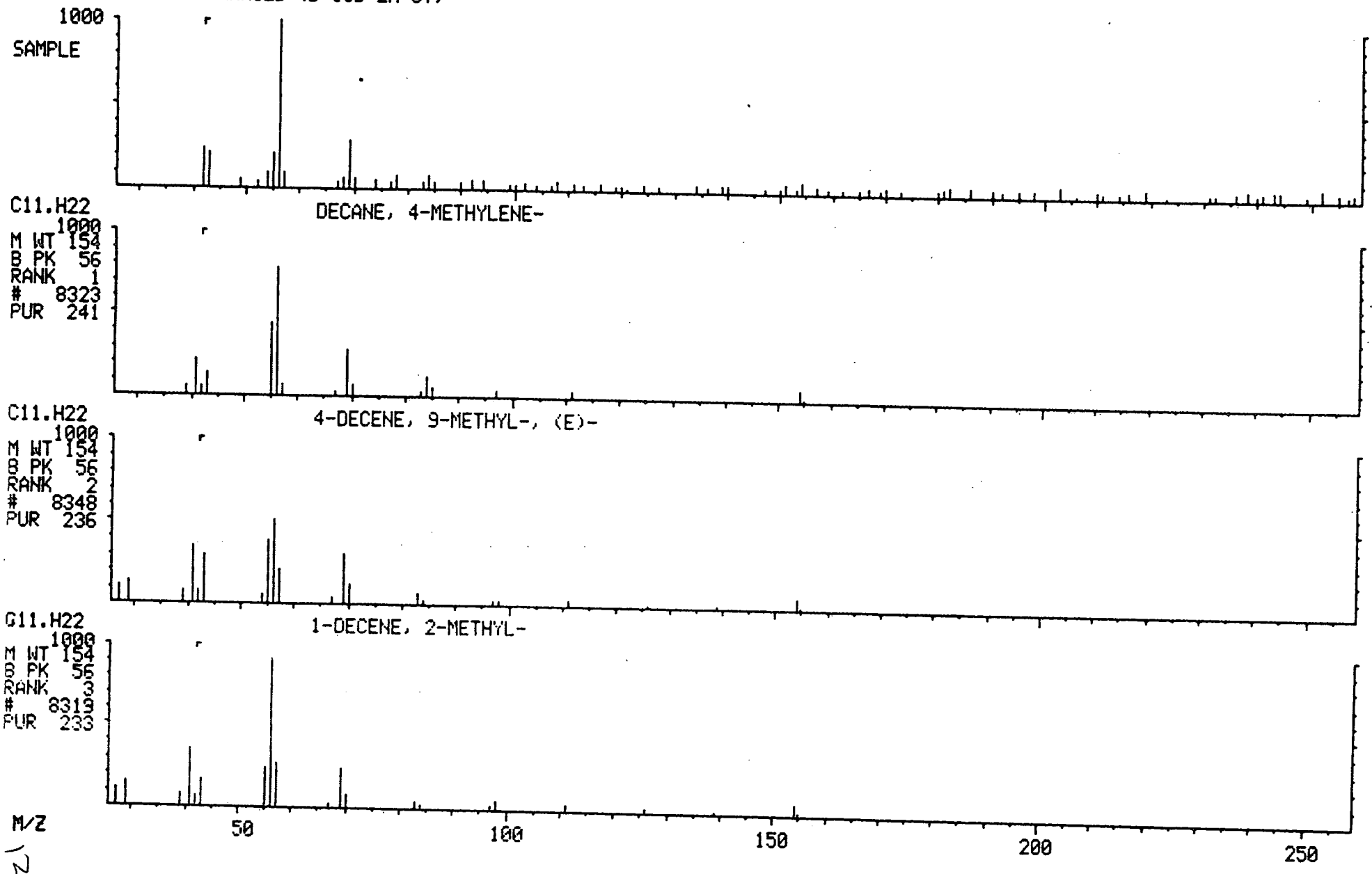
Unknown



LIBRARY SEARCH
08/26/87 19:31:00 + 14:45
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 # 295
CALI: PU7415 # 2

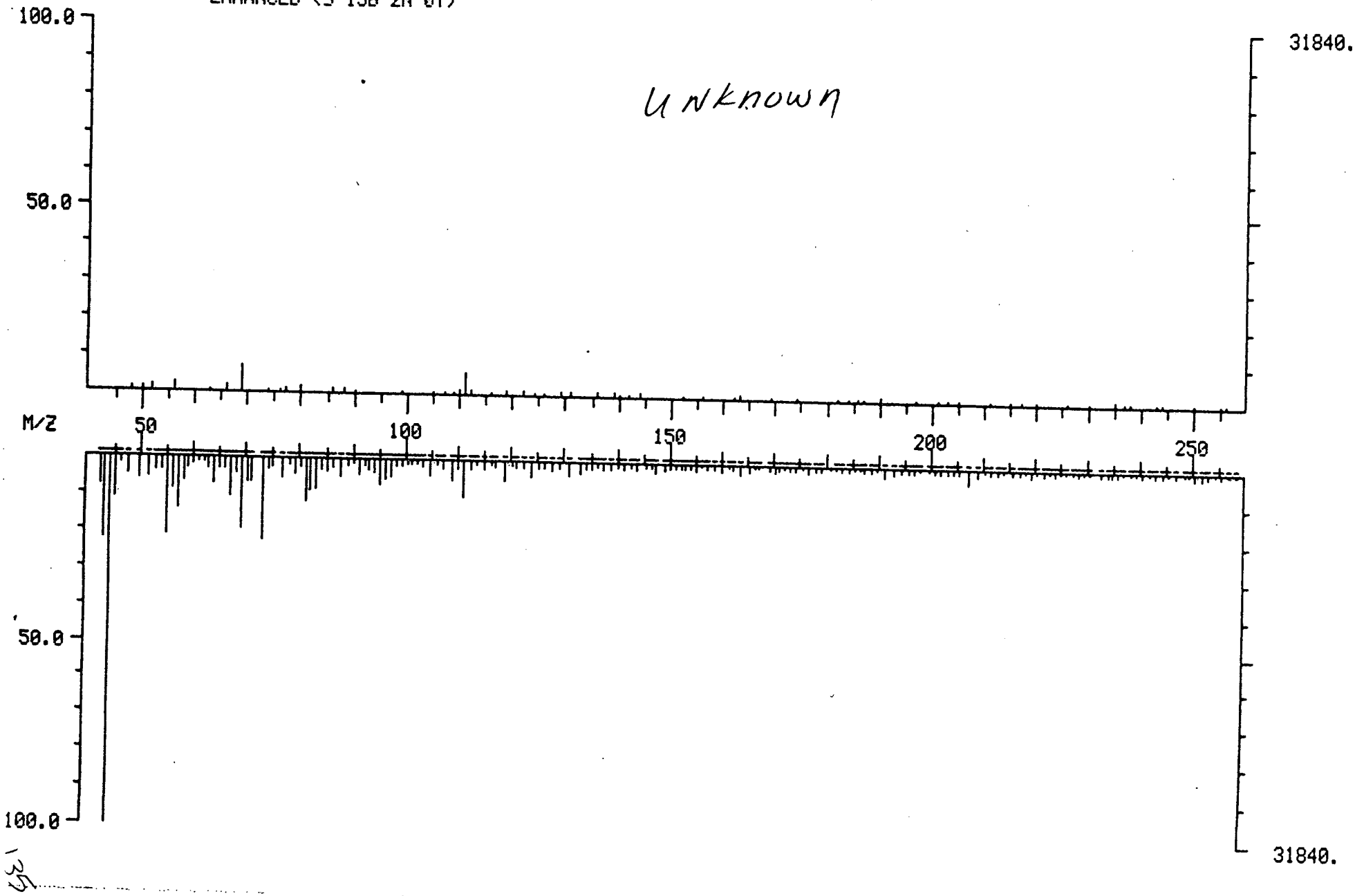
BASE M/Z: 56
RIC: 27007.



DUAL MASS SPECTRUM
08/26/87 19:31:00 + 27:48
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 #556
CALI: PU7415 #2

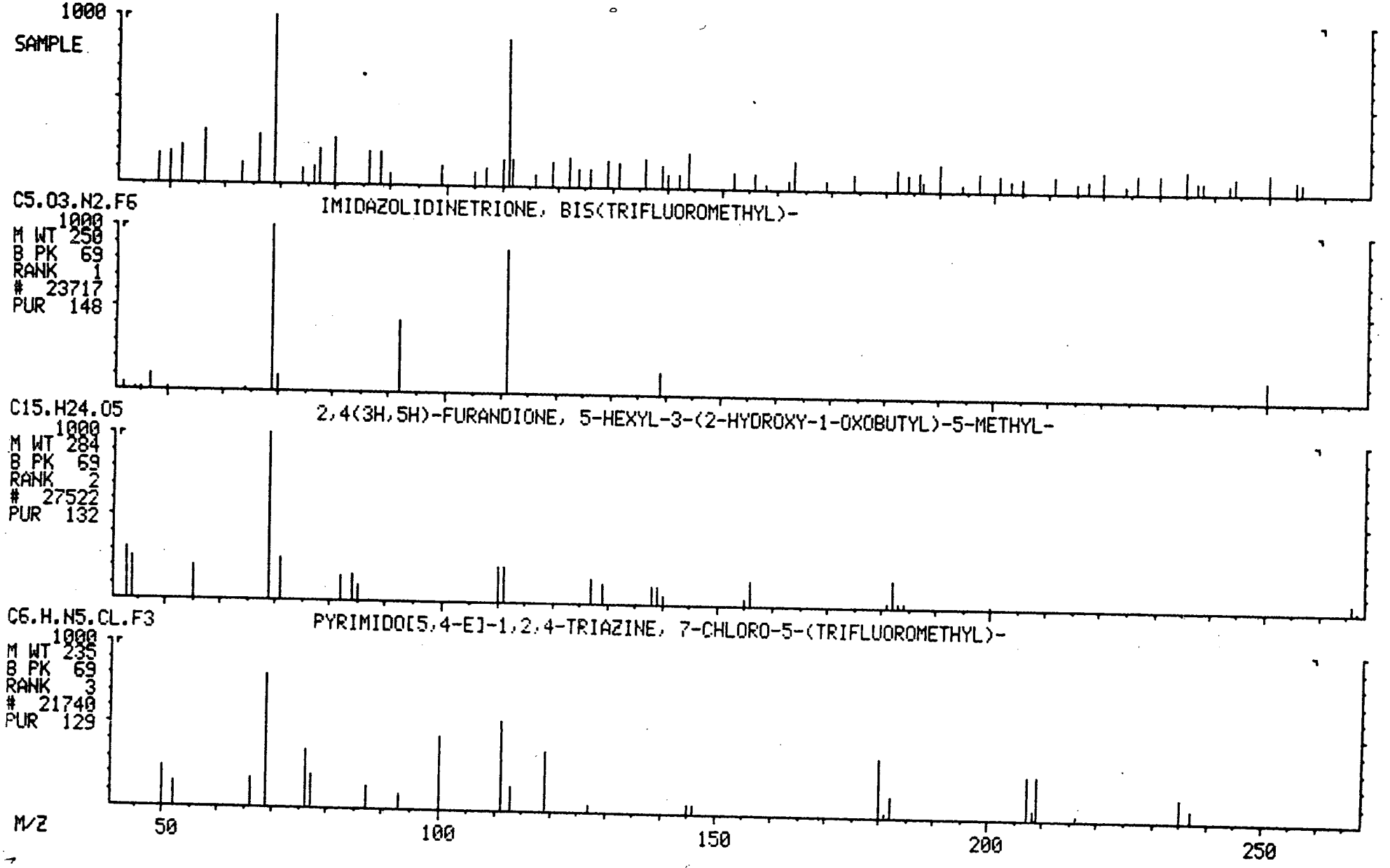
BASE M/Z: 69/ 44
RIC: 20831./ 188159.



LIBRARY SEARCH
08/26/87 19:31:00 + 27:48
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 # 556
CALI: PU7415 # 2

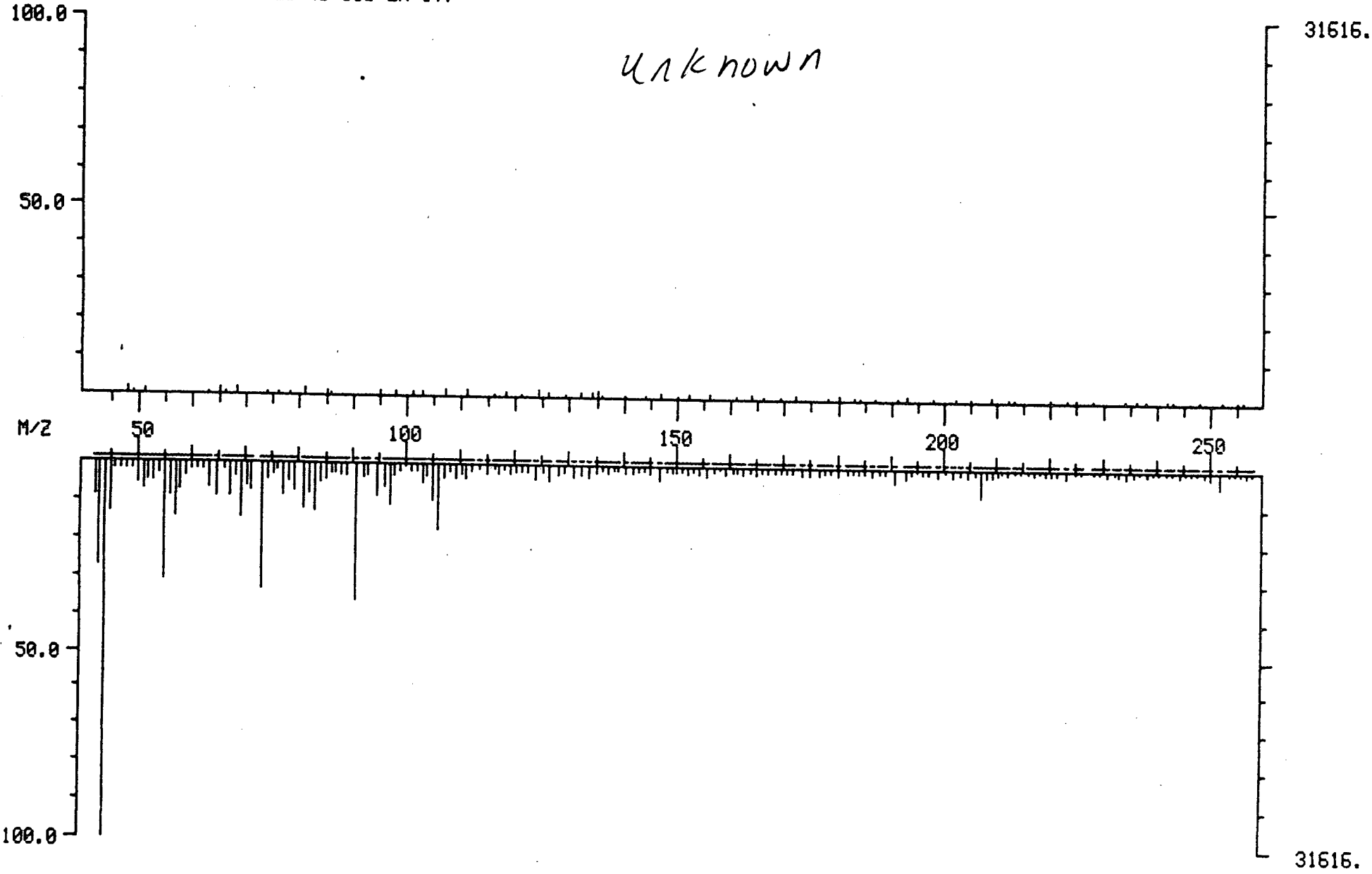
BASE M/Z: 69
RIC: 20633.



DUAL MASS SPECTRUM
08/26/87 19:31:00 + 35:12
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 #704
CALI: PU7415 #2

BASE M/Z: 68/ 44
RIC: 18911./ 227327.



137

LIBRARY SEARCH
08/26/87 19:31:00 + 35:12
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 # 704
CALI: PU7415 # 2

BASE M/Z: 68
RIC: 18847.

1956
SAMPLE

C12.H14.05
BENZOIC ACID, 3-FORMYL-2-HYDROXY-4-METHOXY-6-METHYL-, ETHYL ESTER
1956
M WT 238
B PK 193
RANK 1
22041
PUR 153

C15.H20.03
PEREZONE
1956
M WT 248
B PK 166
RANK 2
23385
PUR 126

C19.H30.03
ANDROSTAN-11-ONE, 3,17-DIHYDROXY-, (3.BETA.,5.BETA.,17.BETA.)-
1956
M WT 306
B PK 108
RANK 3
29804
PUR 126

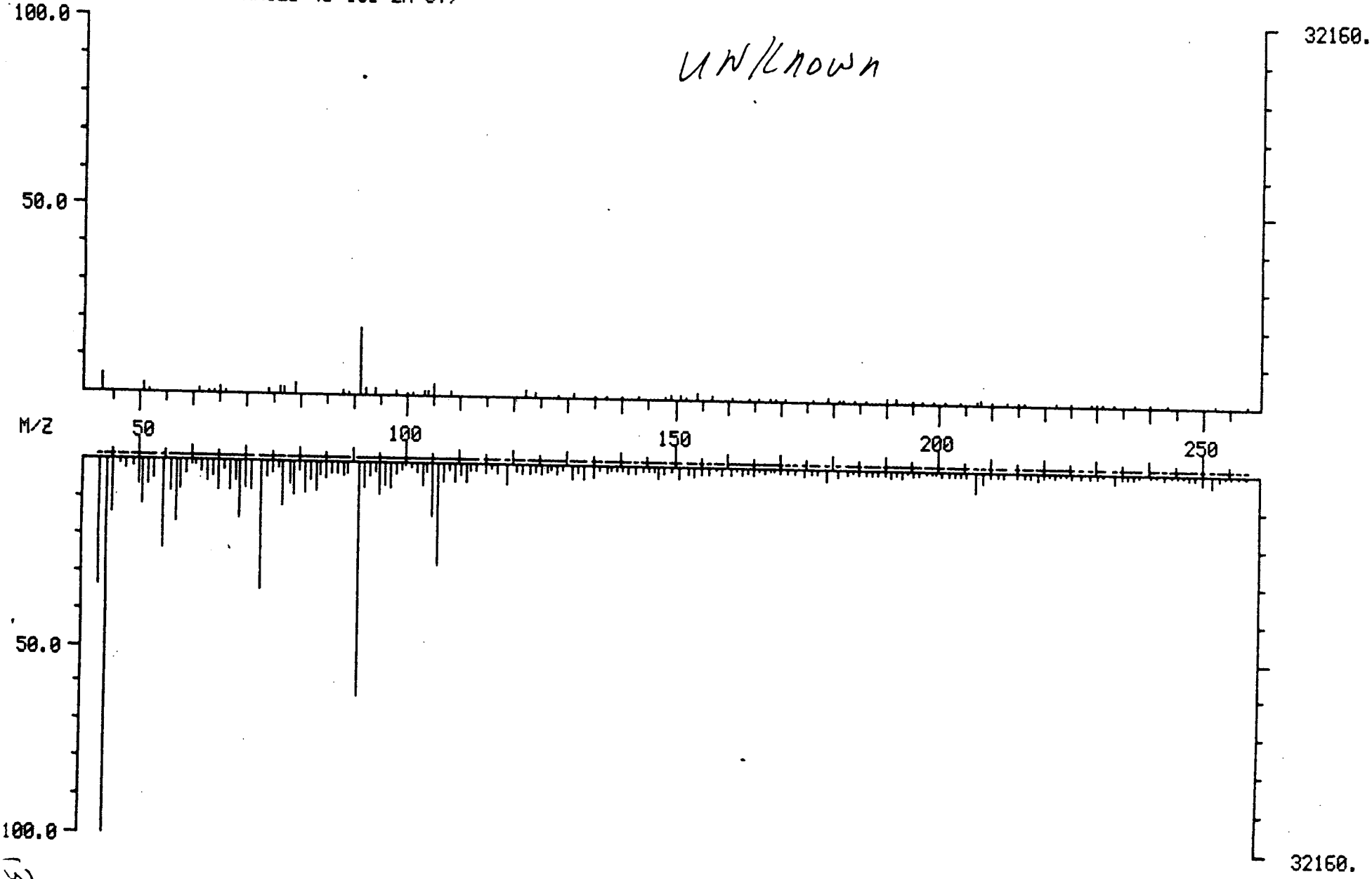
M/Z
50
100
150
200
250
300

138

DUAL MASS SPECTRUM
08/26/87 19:31:00 + 36:48
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 #736
CALI: PU7415 #2

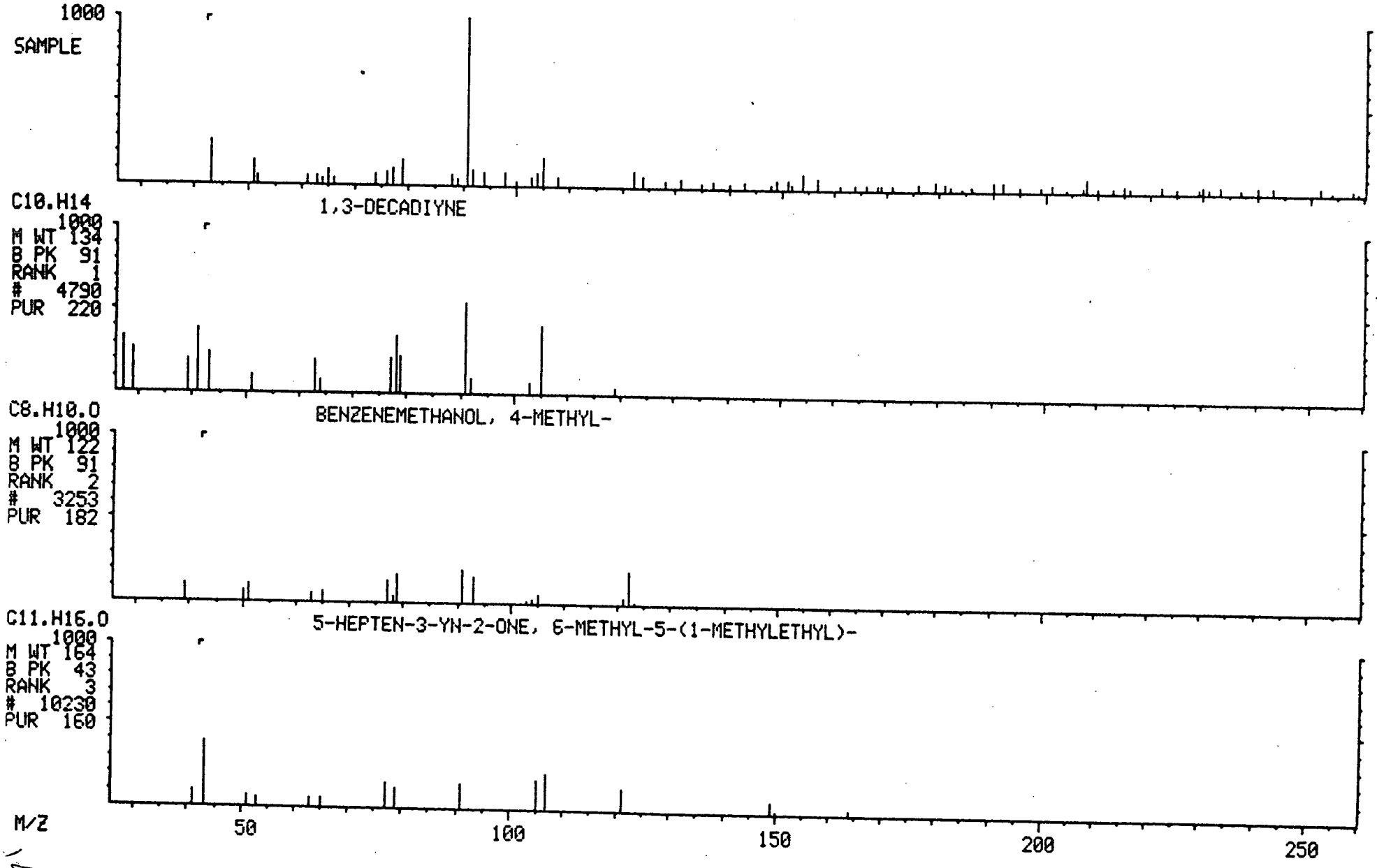
BASE M/Z: 91/ 44
RIC: 28287./ 245247.



LIBRARY SEARCH
08/26/87 19:31:00 + 36:48
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 # 736
CALI: PU7415 # 2

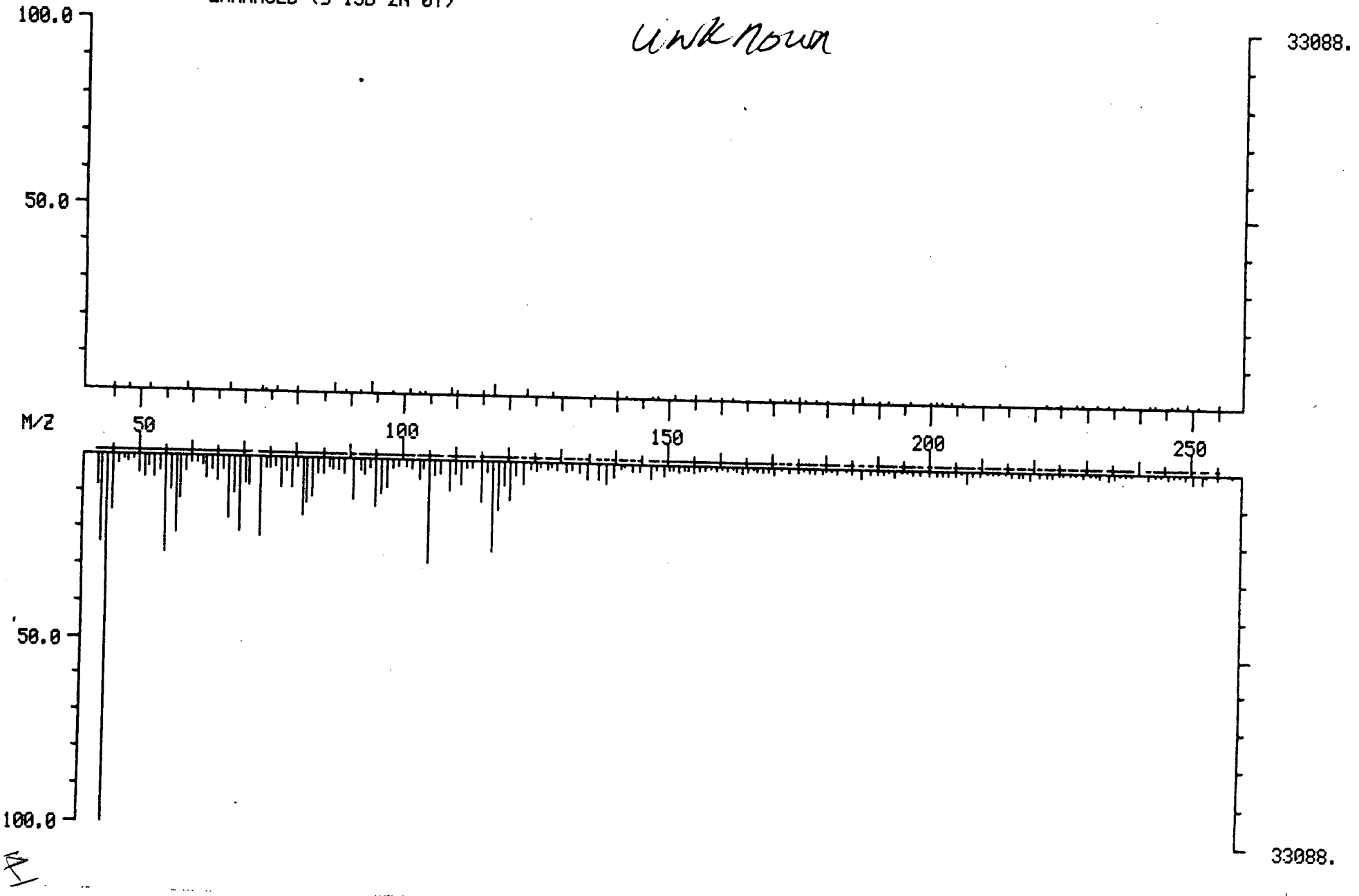
BASE M/Z: 91
RIC: 27999.



DUAL MASS SPECTRUM
08/26/87 19:31:00 + 45:15
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 #905
CALI: PU7415 #2

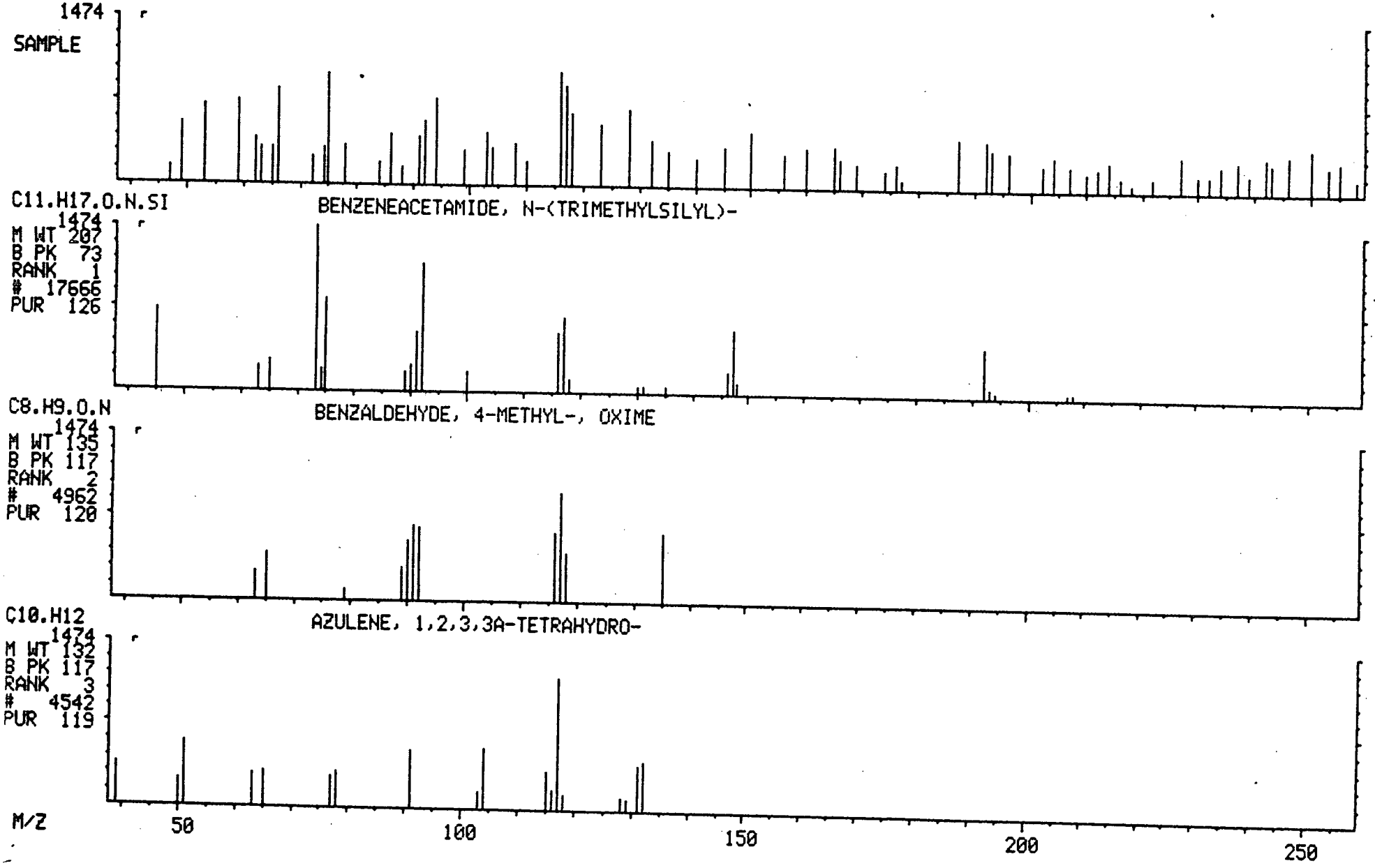
BASE M/Z: 94/ 44
RIC: 20927./ 263167.



LIBRARY SEARCH
08/26/87 19:31:00 + 45:18
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 # 906
CALI: PU7415 # 2

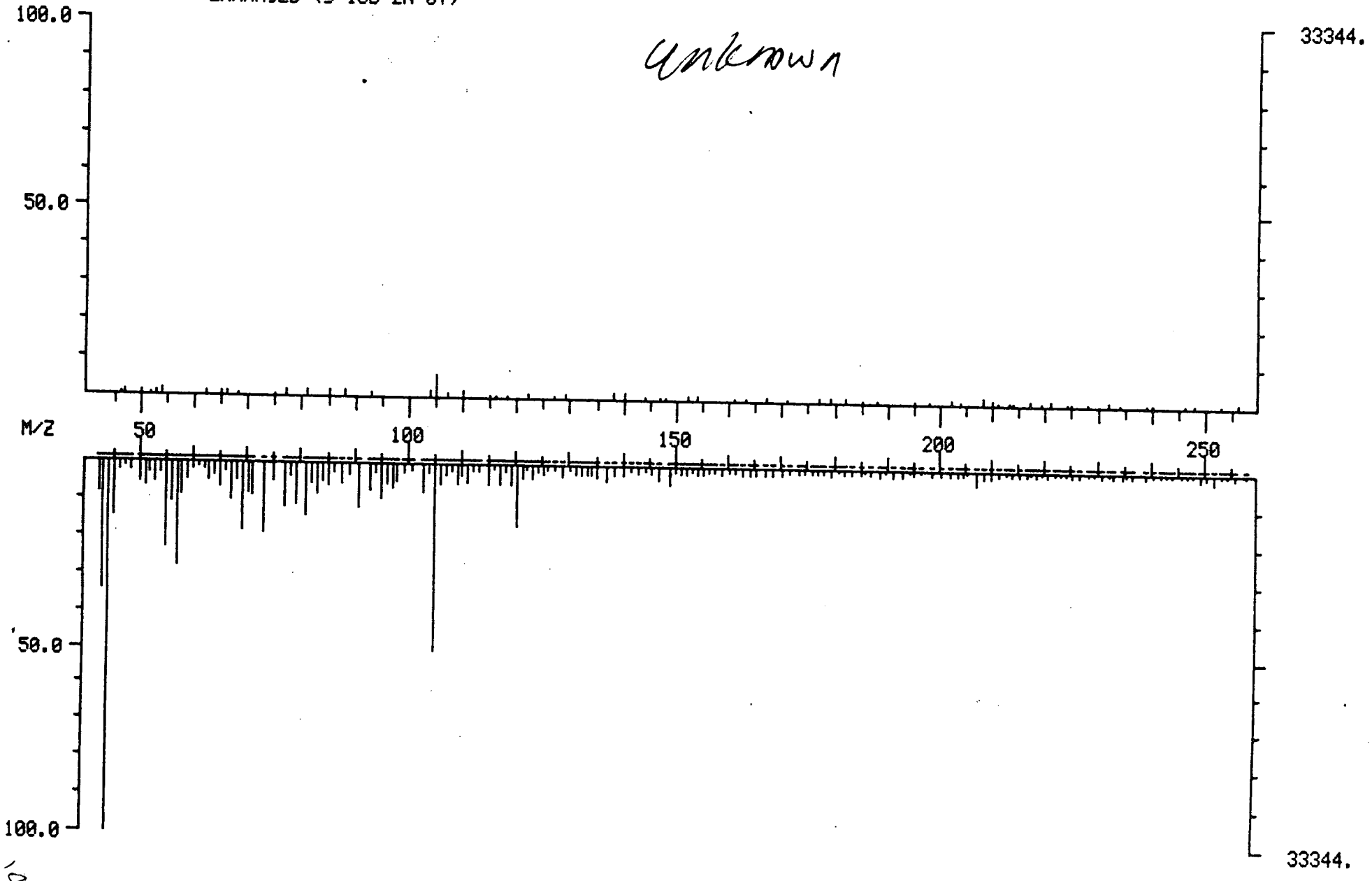
BASE M/Z: 116
RIC: 19039.



DUAL MASS SPECTRUM
08/26/87 19:31:00 + 47:42
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7415 #954
CALI: PU7415 #2

BASE M/Z: 105/ 44
RIC: 22367./ 252415.

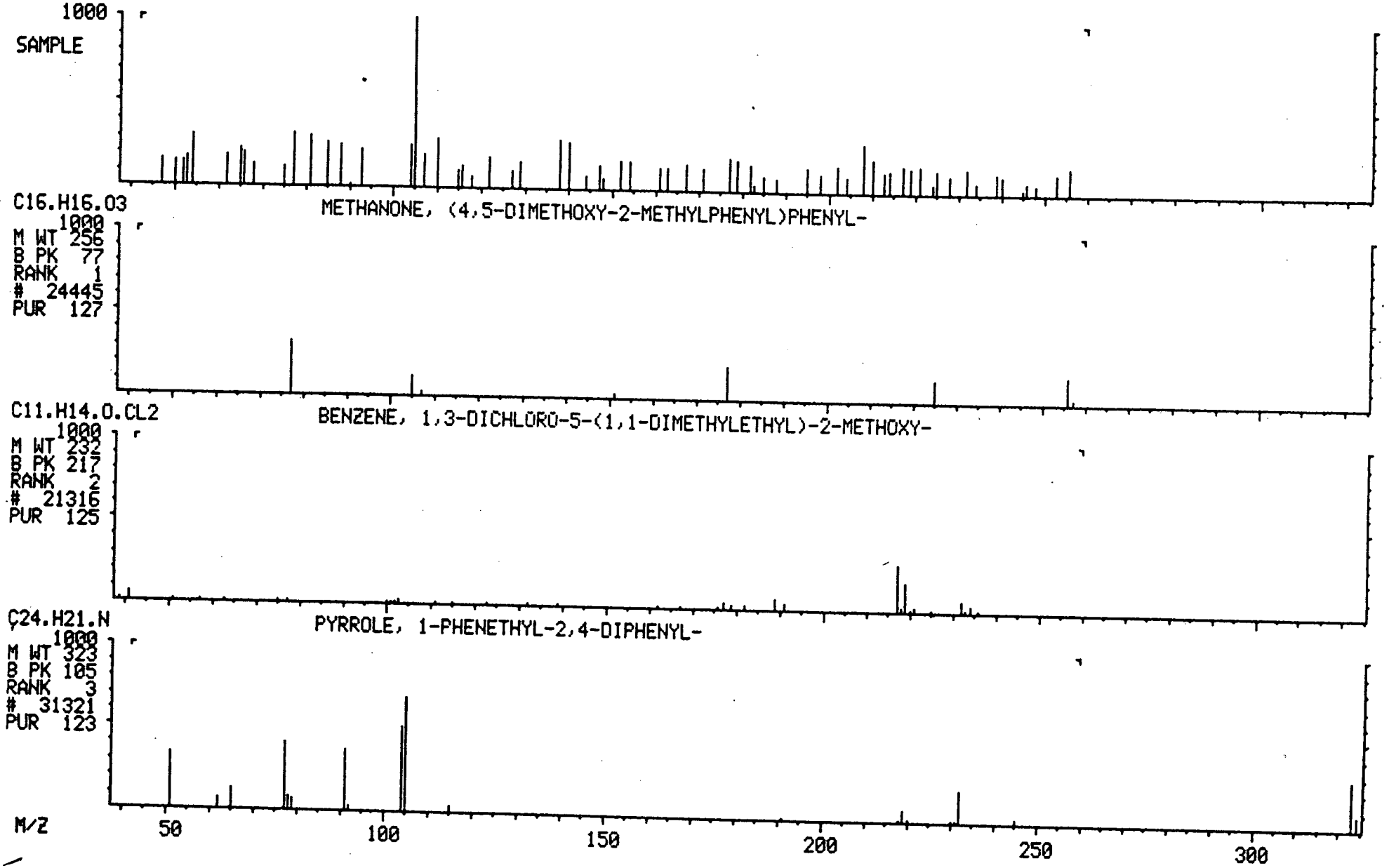


43

LIBRARY SEARCH
08/26/87 19:31:00 + 47:42
SAMPLE: 1ML #BSA 08197890
CONDS.:
ENHANCED (S 15B 2N 0T)

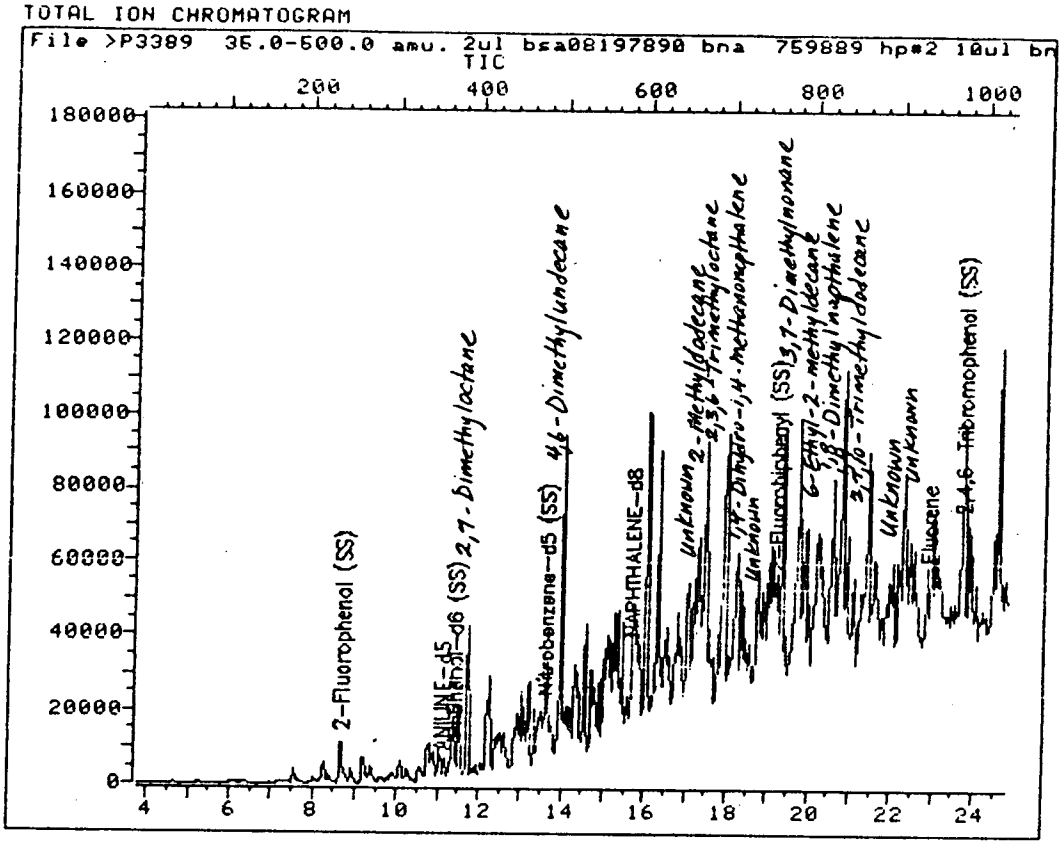
DATA: PU7415 # 954
CALI: PU7415 # 2

BASE M/Z: 105
RIC: 22015.



14

TOTAL ION CHROMATOGRAM



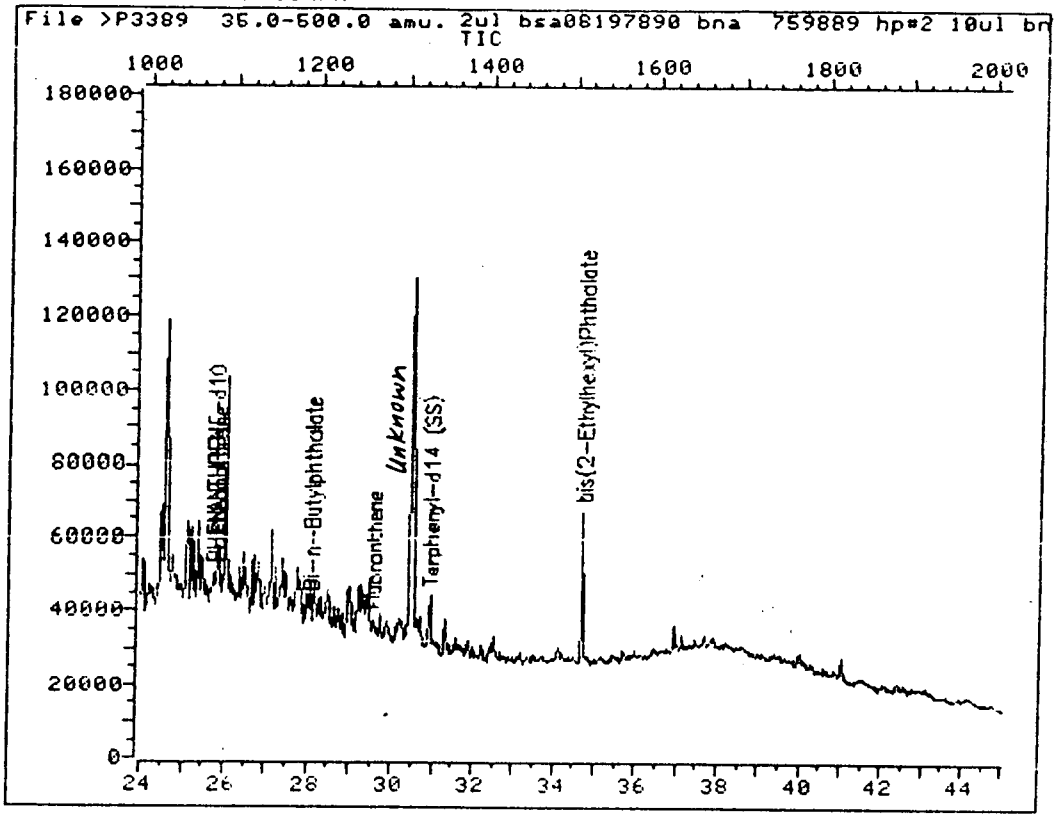
Data File: >P3389::B2 Quant Output File: ^P3389::QT
Name: 2ul bsa08197890 bna
Misc: 759889 hp#2 10ul bn488=>1ml gw1 BTL#59

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870909 19:56
Injected at: 870909 19:10

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >P3389::B2 Quant Output File: ^P3389::QT
Name: 2ul bsa08197890 bna
Misc: 759889 hp#2 10ul bn488=>1ml gw1 BTL#59

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870909 19:56
Injected at: 870909 19:10

TIC page 2 of 2

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 870909 19:56
Output File: ^P3389::QT Injected at: 870909 19:10
Data File: >P3389::B2 Dilution Factor: 1.00000
Name: 2ul bsa08197890 bna
Misc: 759889 hp#2 10ul bn488=>1ml gw1 BTL#59

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.09	360	8746M	42.85	ug/mL	
3)	2-Fluorophenol (SS)	8.65	240	11123	79.92	ug/mL	50
4)	Phenol	11.42	376	1859	8.89	ug/mL	79
6)	Phenol-d6 (SS)	11.38	374	13181	68.21	ug/mL	75
14)	*NAPHTHALENE-d8	15.67	584	19090	41.04	ug/mL	64
15)	Nitrobenzene-d5 (SS)	13.58	482	12381	46.28	ug/mL	71
29)	2-Fluorobiphenyl (SS)	19.19	756	11301	40.67	ug/mL	96
39)	Fluorene	22.87	936	6721	19.70	ug/mL	88
40)	2,4,6-Tribromophenol (SS)	23.70	976	7456	51.20	ug/mL	78
41)	*PHENANTHRENE-d10	25.77	1077	13607	41.02	ug/mL	76
47)	Phenanthrene	25.85	1081	15431	37.90	ug/mL	47
49)	Di-n-Butylphthalate	28.09	1190	3389	7.35	ug/mL	84
50)	Fluoranthene	29.57	1262	2846	7.57	ug/mL	77
51)	Terphenyl-d14 (SS)	30.94	1329	19465	80.00	ug/mL	39
57)	bis(2-Ethylhexyl)Phthalate	34.71	1512	24880	79.35	ug/mL	80

* Compound is ISTD

MS data file header from : >P3389

Sample: 2ul bsa08197890 bna Operator: GLENN MS 9/09/87 19:10
Misc : 759889 hp#2 10ul bn488=>1ml gw1 BTL#59
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

>P3389 2ul bsa08197890 bna 759889 hp#2 10ul bn488=>1ml gw1
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 18589. Max Peaks: 20 Bunching: 1
Dnslope: 0.00 Results File IP3389 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	11.73	387	391	395	39615	171981	147176	28.90	3.477
2	14.01	498	503	505	82132	393047	283030	55.57	6.687
3	16.34	608	617	619	69699	550980	278328	54.65	6.576
4	17.06	647	652	656	30258	454656	186683	36.65	4.411
5	17.30	661	664	666	36994	342684	157965	31.02	3.732
6	17.49	668	673	674	62137	475037	243445	47.80	5.752
7	17.98	690	697	699	71325	690195	411878	80.87	9.732
8	18.24	704	710	714	35049	574412	225096	44.20	5.318
9	18.78	732	736	738	26640	352266	122019	23.96	2.883
10	19.37	761	765	767	60536	453119	183593	36.05	4.338
11	19.78	779	785	786	53986	584064	193771	38.05	4.578
12	19.94	789	793	795	29791	420012	131817	25.88	3.115
13	20.21	799	806	808	35358	604593	242967	47.71	5.741
14	20.80	833	835	836	54808	274627	114876	22.56	2.714
15	21.42	862	865	868	45760	478130	150157	29.48	3.548
16	21.58	871	873	881	20845	610372	121233	23.80	2.864
17	22.28	904	907	909	36278	427953	126135	24.77	2.980
18	24.62	1017	1021	1023	67358	636510	249838	49.05	5.903
19	26.05	1089	1091	1095	59028	482229	153019	30.04	3.615
20	30.51	1301	1308	1310	96832	879611	509302	100.00	12.034

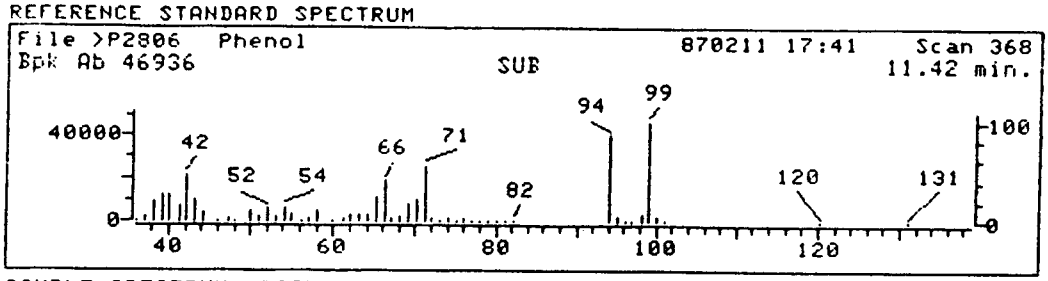
Sum of corrected areas: 4232328.

Summary of Unknowns PBM Library Search and Quantitation

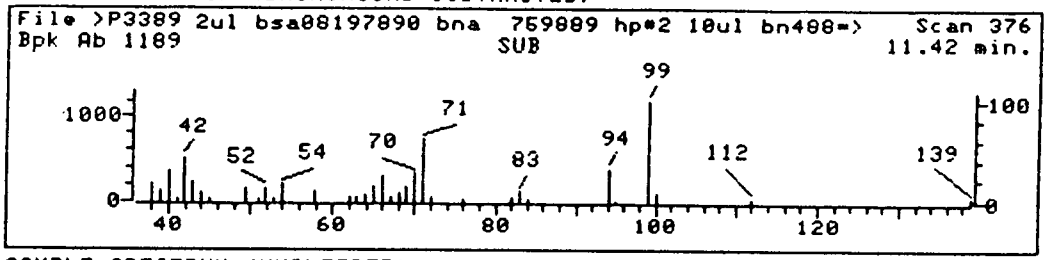
Standard	Concentration	Area	Retention Time	Unknown Window
2	41.0	185892.	15.67	7.83 - 20.72
3	41.0	188157.	25.77	20.72 - 45.03

Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 0.00 Amount Used (AU) = 0.00

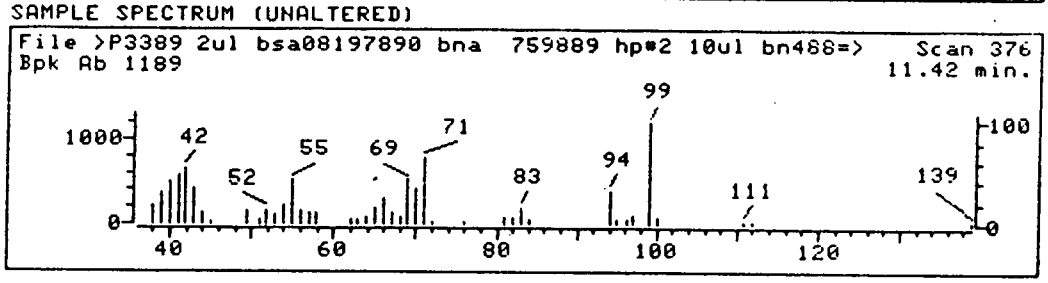
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



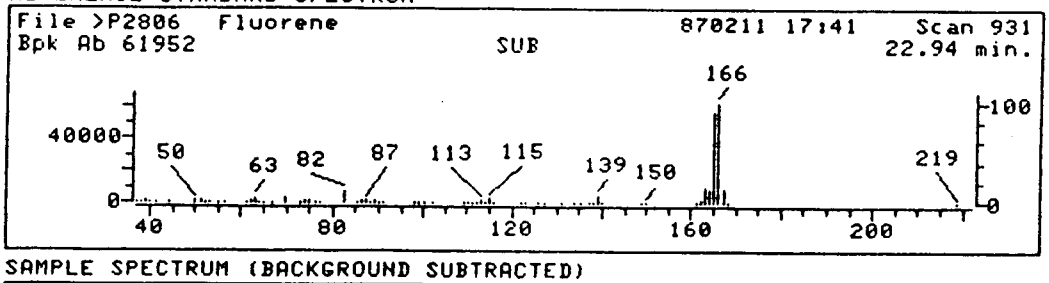
SAMPLE SPECTRUM (UNALTERED)



Data File: >P3389::B2 Quant Output File: ^P3389::QT
Name: 2ul bsa08197890 bna
Misc: 759889 hp#2 10ul bn488=>1ml gw1 BTL#59
Quant Time: 870909 19:56 Quant ID File: ID_625::ME
Injected at: 870909 19:10 Last Calibration: 870909 17:00

Compound No: 4
Compound Name: Phenol
Scan Number: 376
Retention Time: 11.42 min.
Quant Ion: 94.1
Area: 1859
Concentration: 8.89 ug/mL
q-value: 79

REFERENCE STANDARD SPECTRUM



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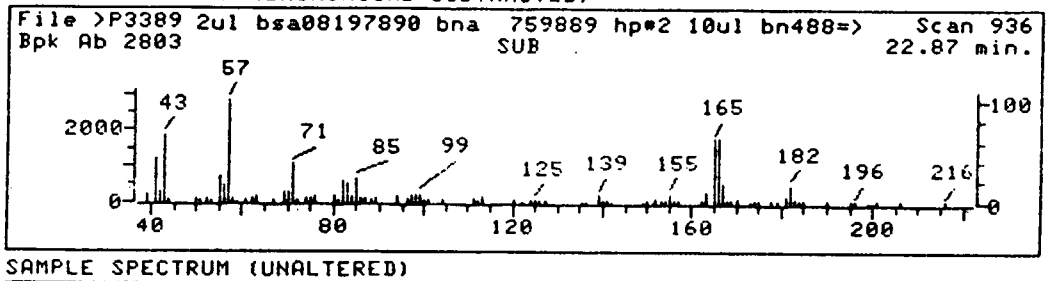

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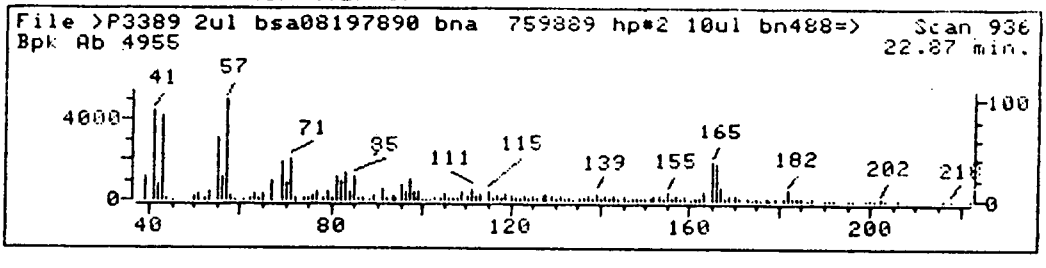
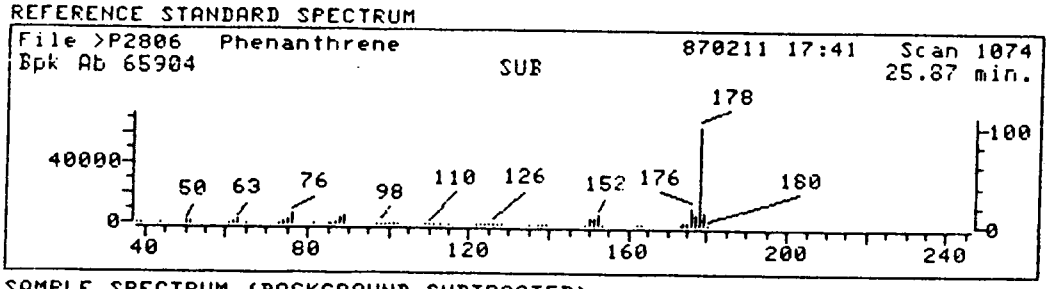


Data File: >P3389::B2 Quant Output File: ^P3389::QT
Name: 2ul bsa08197890 bna
Misc: 759889 hp#2 10ul bn488=>1ml gw1 BTL#59
Quant Time: 870909 19:56 Quant ID File: ID_625::ME
Injected at: 870909 19:10 Last Calibration: 870909 17:00

Compound No: 39
Compound Name: Fluorene
Scan Number: 936
Retention Time: 22.87 min.
Quant Ion: 166.0
Area: 6721
Concentration: 19.70 ug/mL
q-value: 88

REFERENCE STANDARD SPECTRUM



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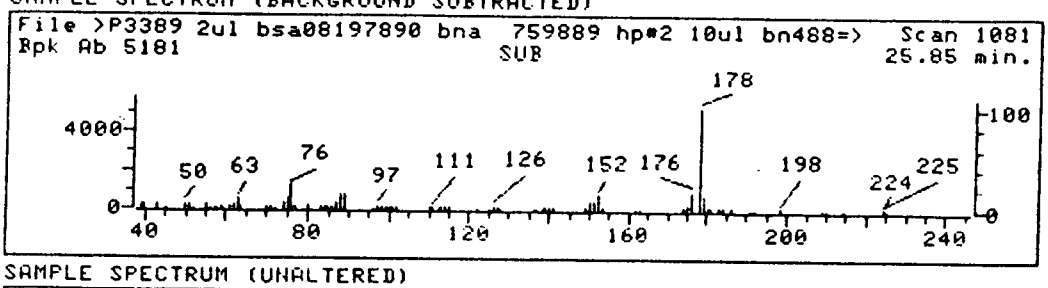

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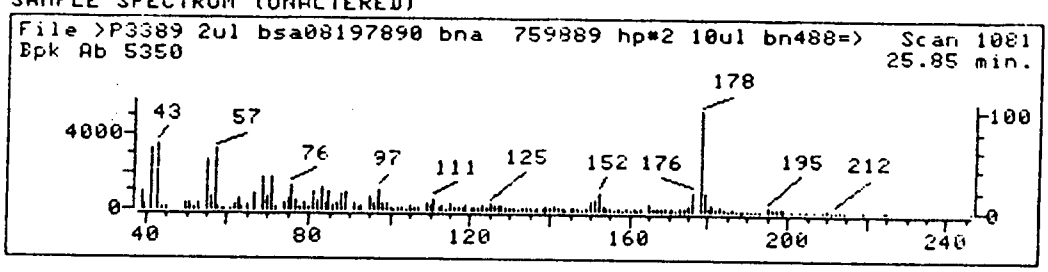
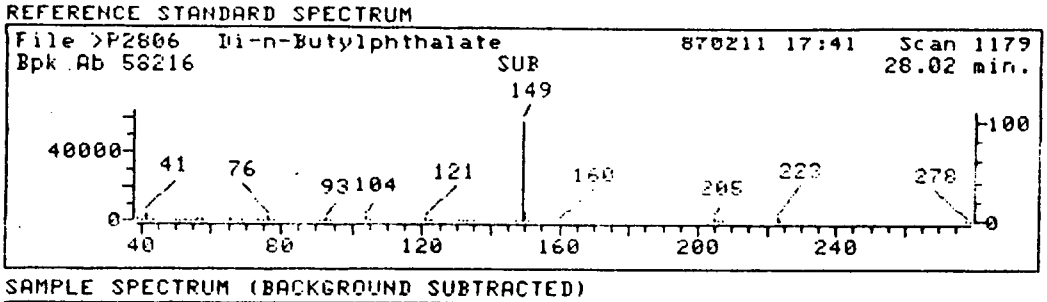


Data File: >P3389::B2 Quant Output File: ^P3389::QT
Name: 2ul bsa08197890 bna
Misc: 759889 hp#2 10ul bn488=>1ml gw1 BTL#59
Quant Time: 870909 19:56 Quant ID File: ID_625::ME
Injected at: 870909 19:10 Last Calibration: 870909 17:00

Compound No: 47
Compound Name: Phenanthrene
Scan Number: 1081
Retention Time: 25.85 min.
Quant Ion: 178.0
Area: 15431
Concentration: 37.90 ug/mL
q-value: 47

REFERENCE STANDARD SPECTRUM



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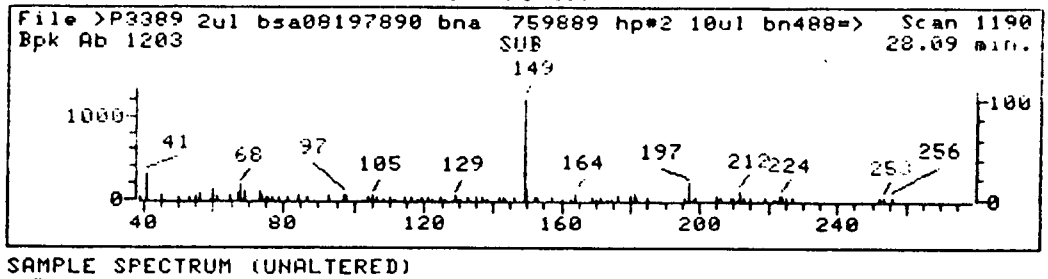

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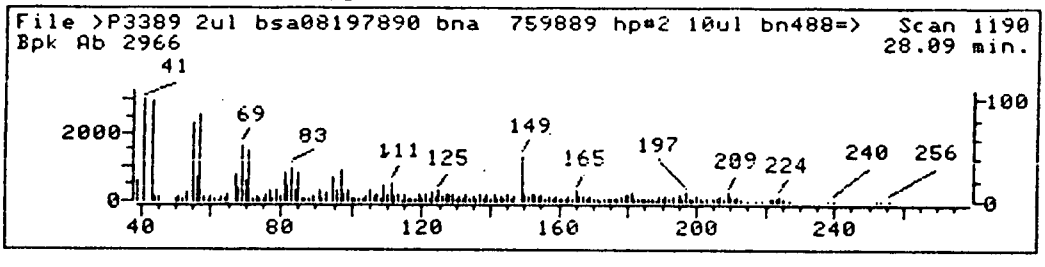
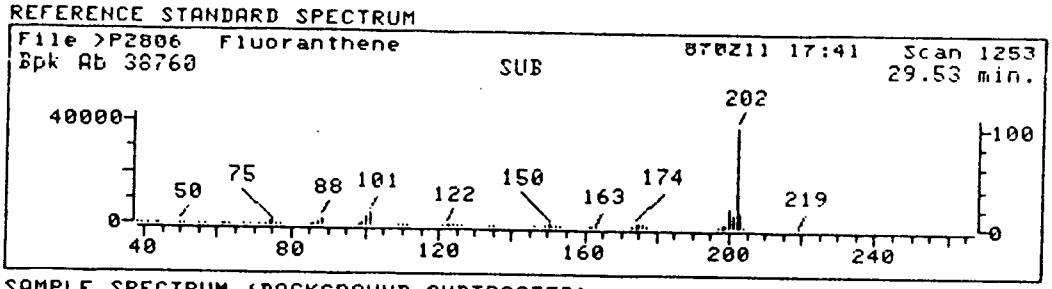


Data File: >P3389::B2 Quant Output File: ^P3389::QT
Name: 2ul bsa08197890 bna
Misc: 759889 hp#2 10ul bn488=>1ml gw1 BTL#59
Quant Time: 870909 19:56 Quant ID File: ID_625::ME
Injected at: 870909 19:10 Last Calibration: 870909 17:00

Compound No: 49
Compound Name: Di-n-Butylphthalate
Scan Number: 1190
Retention Time: 28.09 min.
Quant Ion: 149.0
Area: 3389
Concentration: 7.35 ug/mL
q-value: 84

REFERENCE STANDARD SPECTRUM



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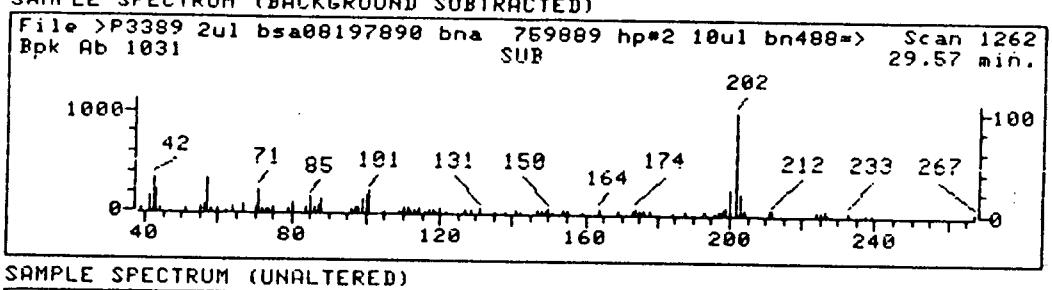

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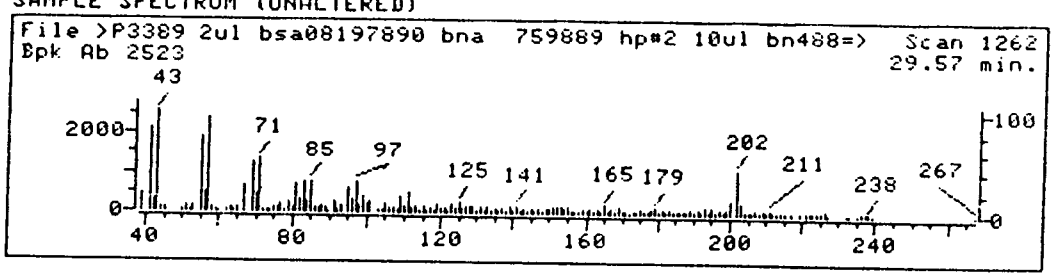
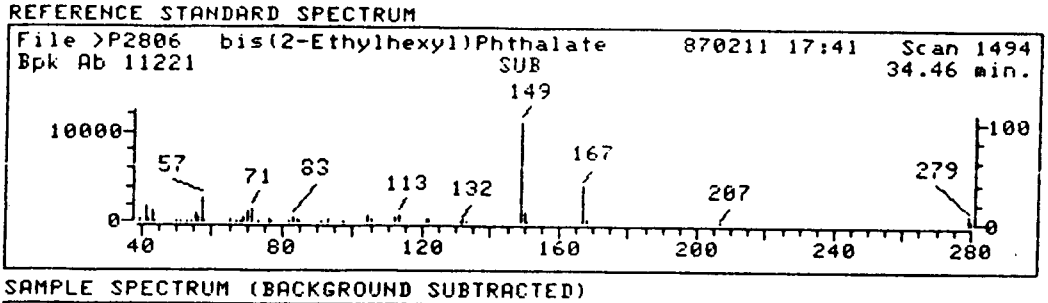


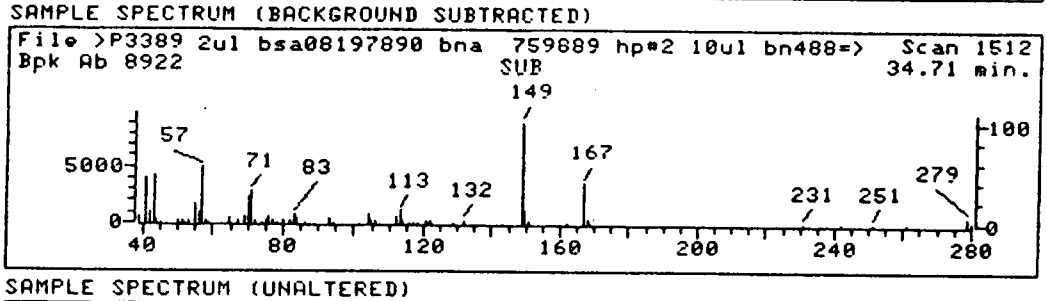
Data File: >P3389::B2 Quant Output File: ^P3389::QT
Name: 2ul bsa08197890 bna
Misc: 759889 hp#2 10ul bn488=>1ml gw1 BTL#59
Quant Time: 870909 19:56 Quant ID File: ID_625::ME
Injected at: 870909 19:10 Last Calibration: 870909 17:00

Compound No: 50
Compound Name: Fluoranthene
Scan Number: 1262
Retention Time: 29.57 min.
Quant Ion: 202.0
Area: 2846
Concentration: 7.57 ug/mL
q-value: 77

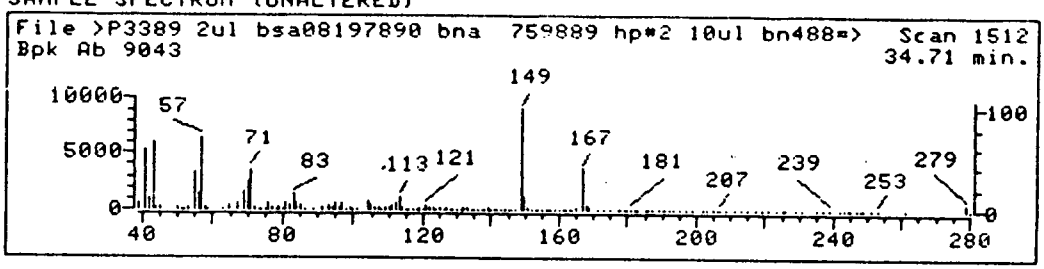
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

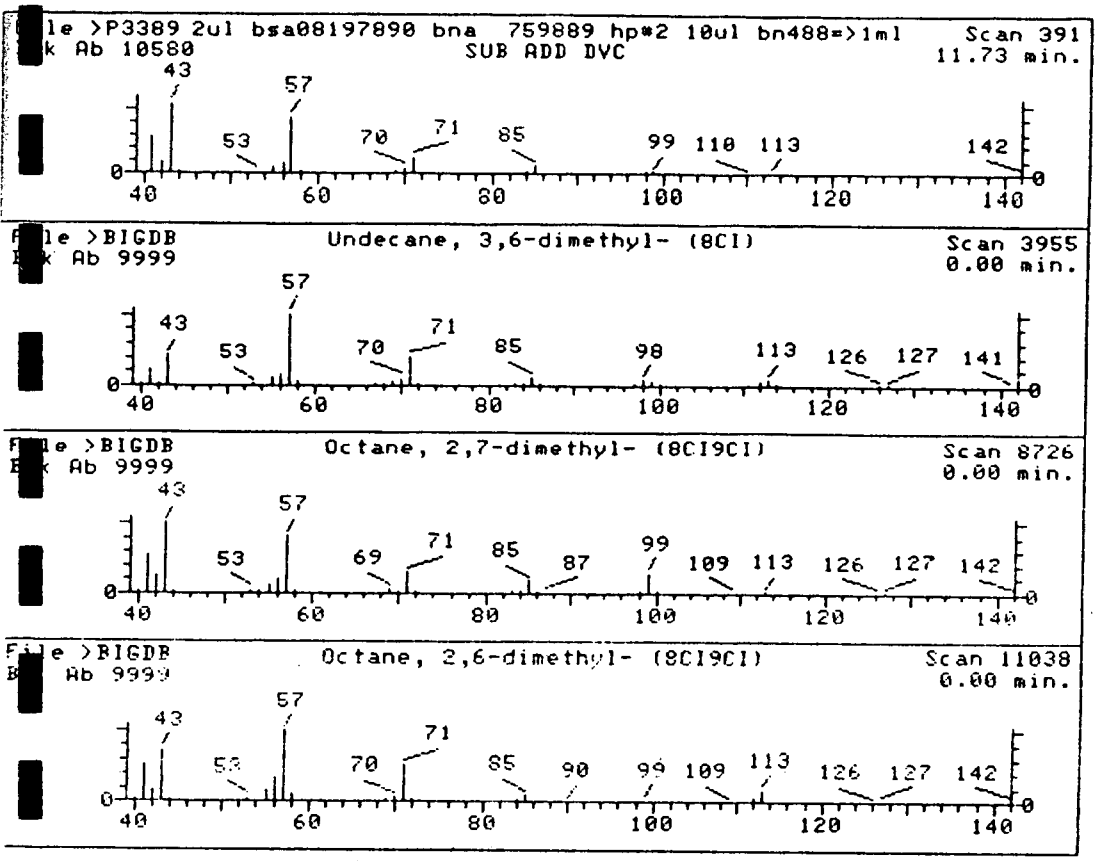


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3389::B2 Quant Output File: ^P3389::QT
Name: 2ul bsa08197890 bna
Misc: 759889 hp#2 10ul bn488=>1ml gw1 BTL#59
Quant Time: 870909 19:56 Quant ID File: ID_625::ME
Injected at: 870909 19:10 Last Calibration: 870909 17:00

Compound No: 57
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1512
Retention Time: 34.71 min.
Quant Ion: 149.0
Area: 24880
Concentration: 79.35 ug/mL
q-value: 80



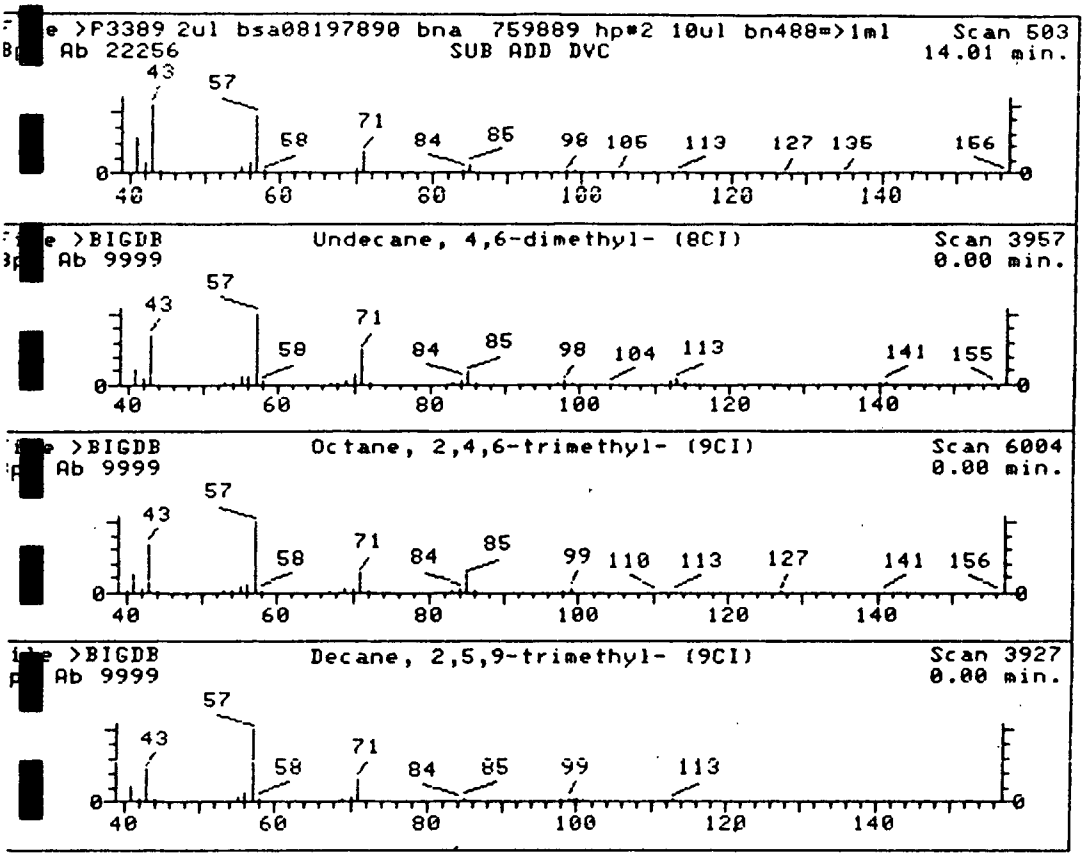
Unknown #,1

Area = 147176.0 Tentative Concentration is 32.00

1.	Undecane, 3,6-dimethyl- (8CI)	184 C13H28
2.	Octane, 2,7-dimethyl- (8CI9CI)	142 C10H22
3.	Octane, 2,6-dimethyl- (8CI9CI)	142 C10H22
4.	Octane, 3,5-dimethyl- (8CI9CI)	142 C10H22
5.	Octane, 2,4,6-trimethyl- (9CI)	156 C11H24
6.	Decane, 2,5,9-trimethyl- (9CI)	184 C13H28
7.	Nonane (8CI9CI)	128 C9H20

Sample file: >P3389 Spectrum #: 391
Search speed: 1 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78	17301289	3955	"BIGDB	48	49	2	0	61	3	55	12
2.	71*	1072168	8726	"BIGDB	54	41	2	0	70	11	38	34
3.	70*	2051301	11038	"BIGDB	23	72	3	0	81	7	42	12



Unknown #,2

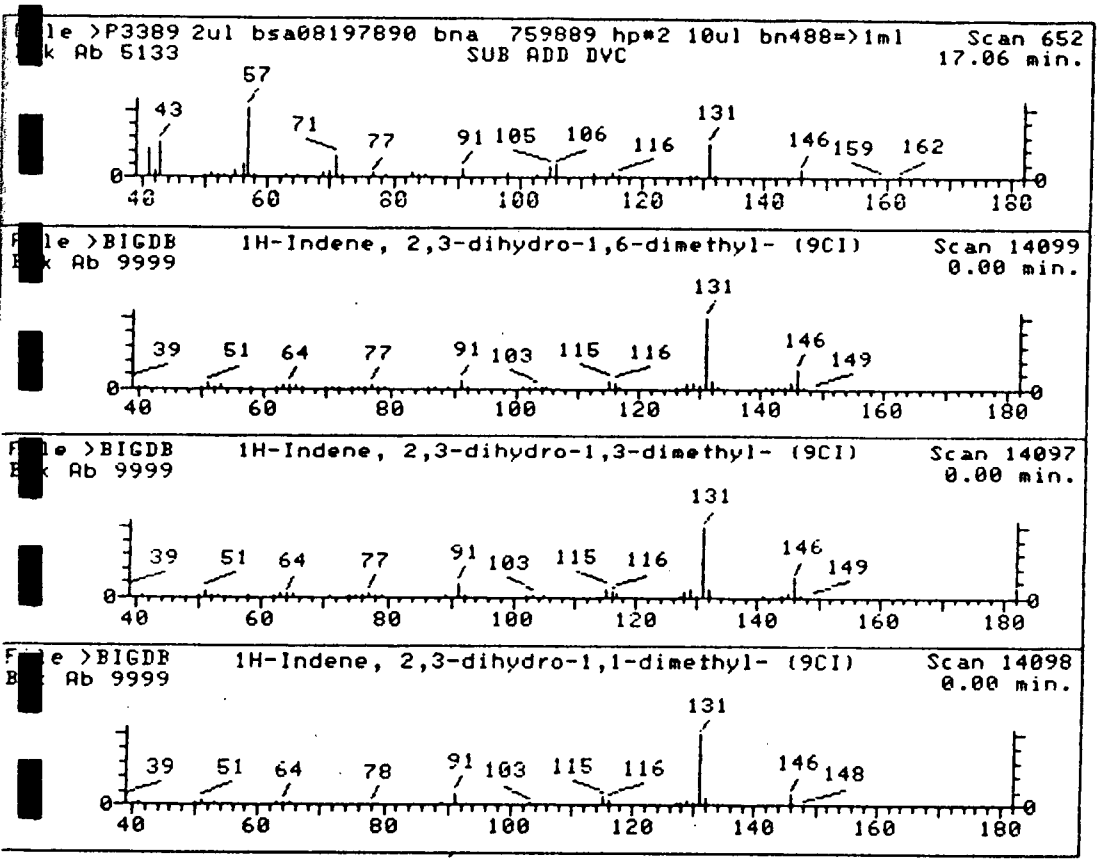
ea = 283030.0 Tentative Concentration is 62.00

1.	Undecane, 4,6-dimethyl- (8CI)	184 C13H28
2.	Octane, 2,4,6-trimethyl- (9CI)	156 C11H24
3.	Decane, 2,5,9-trimethyl- (9CI)	184 C13H28
4.	Octane, 3,5-dimethyl- (8CI9CI)	142 C10H22
5.	Nonane, 2,6-dimethyl- (8CI9CI)	156 C11H24
6.	Heptane, 2,5-dimethyl- (8CI9CI)	128 C9H20
7.	Pentane, 3-ethyl-2,2-dimethyl- (8CI9CI)	128 C9H20

Sample file: >P3389 Spectrum #: 503

Search speed: 1 Tilting option: N No. of ion ranges searched: 50

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
78	17312822	3957	"BIGDB	54	44	2	0	61	1	55	14



Unknown #,4

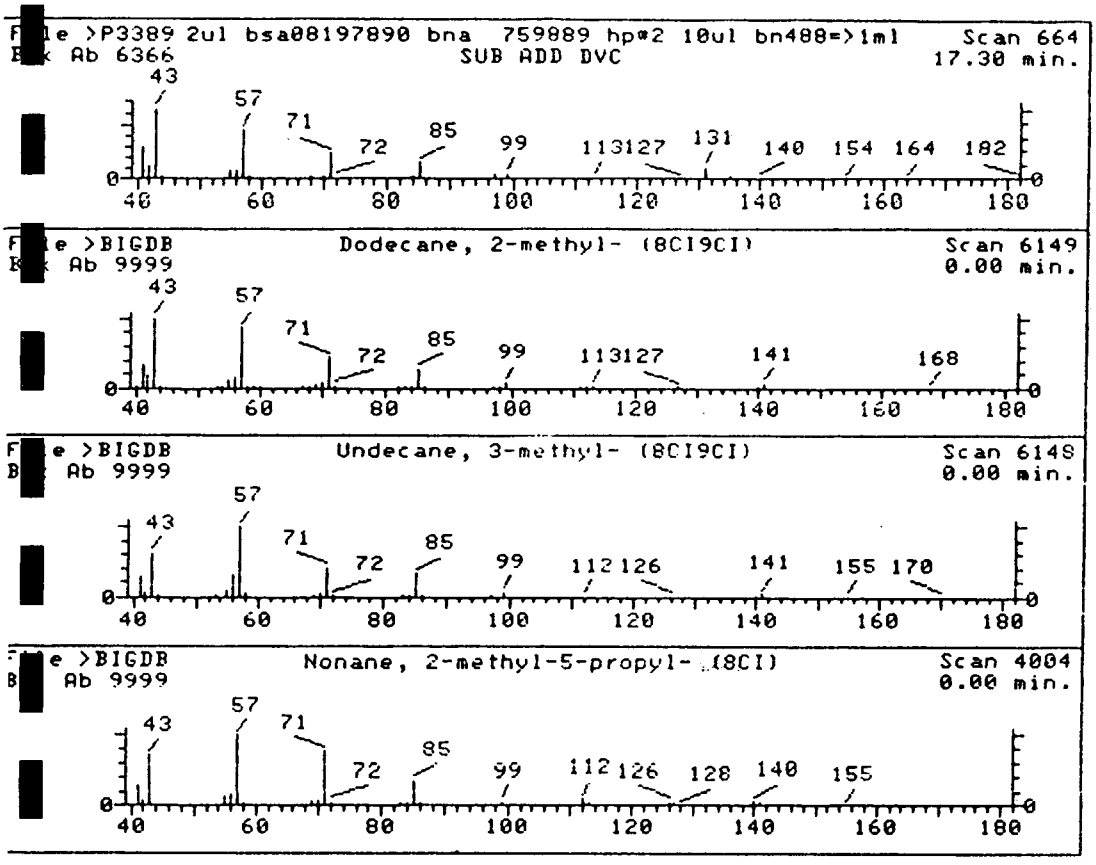
Area = 186683.0 Tentative Concentration is 41.00

1.	1H-Indene, 2,3-dihydro-1,6-dimethyl- (9CI)	146	C11H14
2.	1H-Indene, 2,3-dihydro-1,3-dimethyl- (9CI)	146	C11H14
3.	1H-Indene, 2,3-dihydro-1,1-dimethyl- (9CI)	146	C11H14
4.	1H-Indene, 2,3-dihydro-1,2-dimethyl- (9CI)	146	C11H14
5.	Benzene, (1,1-dimethyl-2-propenyl)- (9CI)	146	C11H14
6.	Benzene, (3-methyl-2-butenyl)- (9CI)	146	C11H14

Sample file: >P3389 Spectrum #: 652

Search speed: 1 Tilting option: N No. of ion ranges searched: 48

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
30*	17059482	14099	"BIGDB	41	43	2	0	48	48	10	21



Unknown #,5

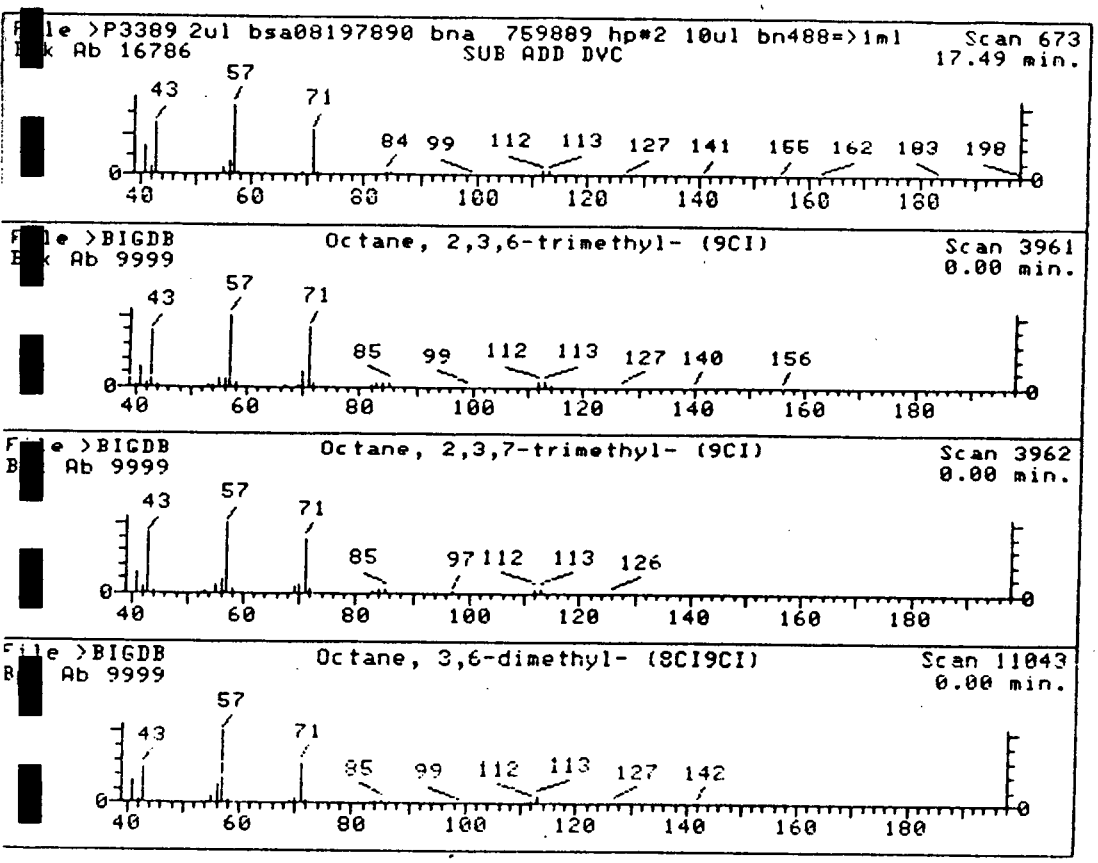
Area = 157965.0 Tentative Concentration is 35.00

1.	Dodecane, 2-methyl- (8CI9CI)	184 C13H28
2.	Undecane, 3-methyl- (8CI9CI)	170 C12H26
3.	Nonane, 2-methyl-5-propyl- (8CI)	184 C13H28
4.	Undecane, 2-methyl- (8CI9CI)	170 C12H26
5.	Decane, 2,4-dimethyl- (8CI9CI)	170 C12H26
6.	Undecane, 4,7-dimethyl- (8CI9CI)	184 C13H28
7.	Decane, 2,9-dimethyl- (8CI9CI)	170 C12H26

Sample file: >P3389 Spectrum #: 664

Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
.	41	1560970	6149	"BIGDB	69	32	2	0	81	34	16	24



Unknown #,6

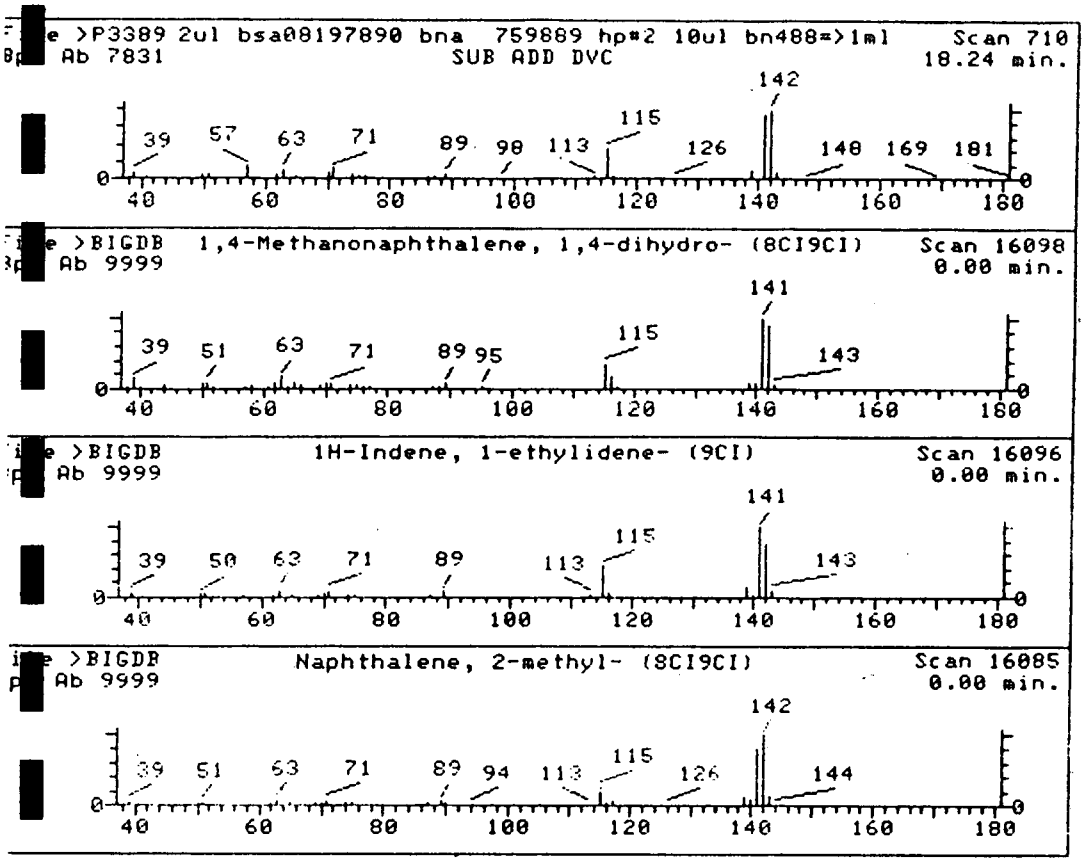
Area = 243445.0 Tentative Concentration is 54.00

1.	Octane, 2,3,6-trimethyl- (9CI)	156 C11H24
2.	Octane, 2,3,7-trimethyl- (9CI)	156 C11H24
3.	Octane, 3,6-dimethyl- (8CI9CI)	142 C10H22
4.	Heptane, 3-ethyl-5-methyl- (9CI)	142 C10H22
5.	Octane, 3-ethyl- (8CI9CI)	142 C10H22
6.	Heptane, 2,5,5-trimethyl- (8CI9CI)	142 C10H22
7.	Nonane, 2,6-dimethyl- (8CI9CI)	156 C11H24

Sample file: >P3389 Spectrum #: 673

Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78	62016335	3961	"BIGDB	44	48	2	0	76	0	55	12
2.	78	62016346	3962	"BIGDB	57	36	2	0	84	0	55	19
3.	78	15869940	11043	"BIGDB	50	39	2	0	77	3	55	17
4.	70	52896909	3958	"BIGDB	45	49	2	0	78	6	42	12
5.	70	5881174	3951	"BIGDB	50	43	2	0	73	6	42	15



Unknown #,8

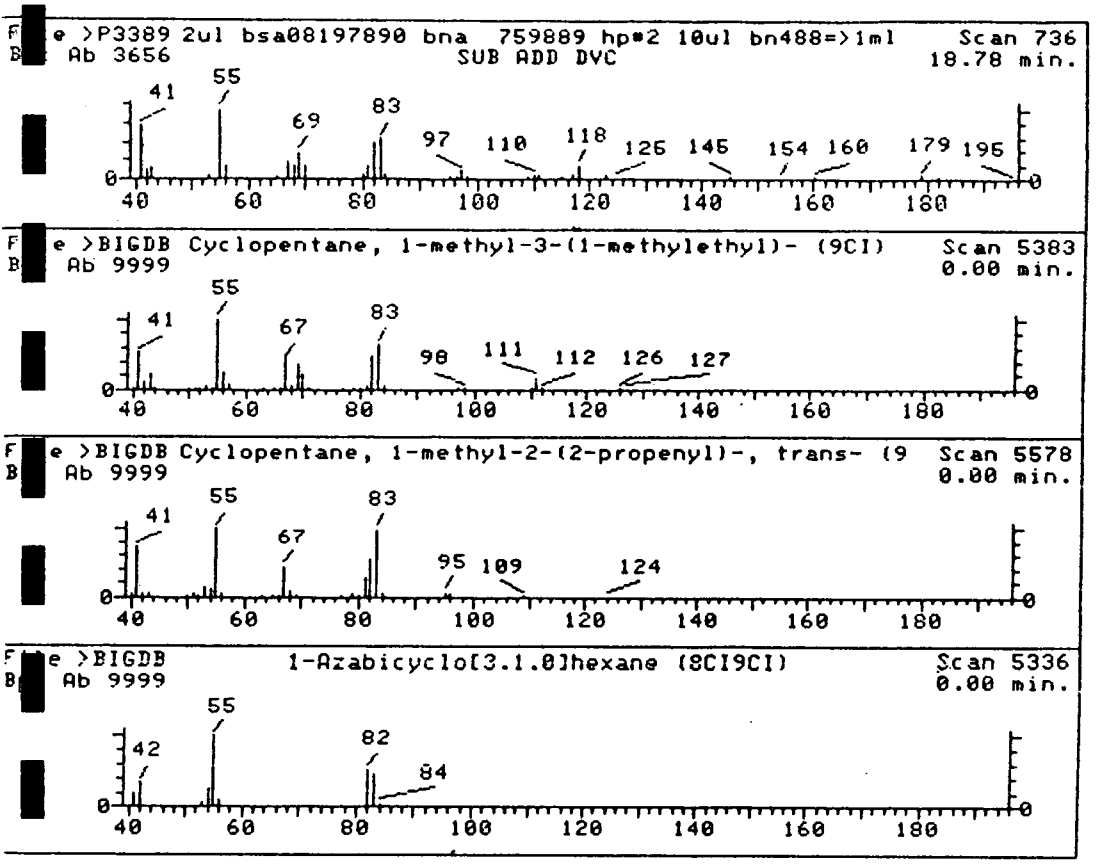
Area = 225096.0 Tentative Concentration is 50.00

1.	1,4-Methanonaphthalene, 1,4-dihydro- (8CI9CI)	142	C11H10
2.	1H-Indene, 1-ethylidene- (9CI)	142	C11H10
3.	Naphthalene, 2-methyl- (8CI9CI)	142	C11H10
4.	Naphthalene, 1-methyl- (8CI9CI)	142	C11H10
5.	Benzeneacetonitrile, 4-cyano- (9CI)	142	C9H6N2
6.	Benzeneacetonitrile, 2-cyano- (9CI)	142	C9H6N2

Sample file: >P3389 Spectrum #: 710

Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1	88*	4453901	16098	"BIGDB	70	32	2	0	91	3	65	50
2	70*	2471832	16096	"BIGDB	71	29	2	0	87	17	32	52

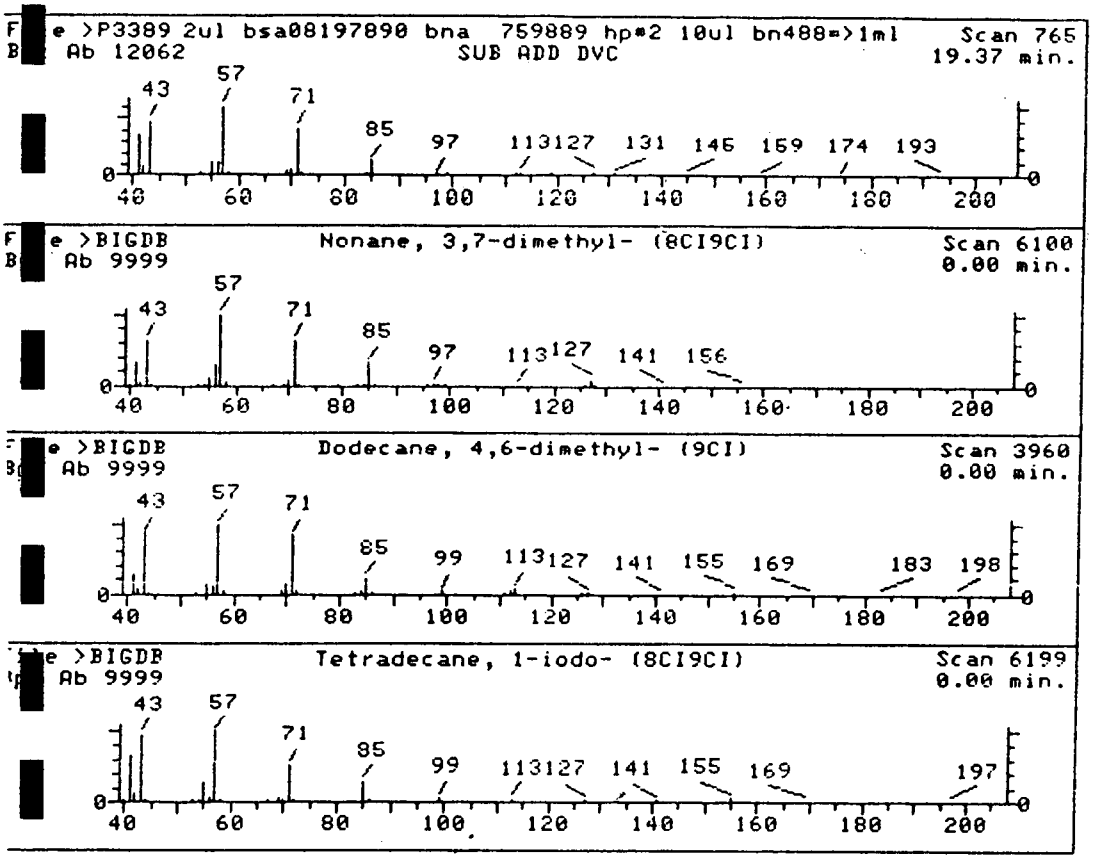


Unknown #,9
Area = 122019.0 Tentative Concentration is 27.00

1.	Cyclopentane, 1-methyl-3-(1-methylethyl)- (9CI)	126 C9H18
2.	Cyclopentane, 1-methyl-2-(2-propenyl)-, trans- (9CI)	124 C9H16
3.	1-Azabicyclo[3.1.0]hexane (8CI9CI)	83 C5H9N
4.	Cyclohexanol, 2-(2-propynyloxy)-, trans- (8CI9CI)	154 C9H14O2
5.	Cyclohexanecarbonyl chloride (8CI9CI)	146 C7H11ClO
6.	Pyridine, 2,3,4,5-tetrahydro- (8CI9CI)	83 C5H9N
7.	1,12-Tridecadiene (8CI9CI)	180 C13H24

Sample file: >P3389 Spectrum #: 736
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
31	53771883	5383	"BIGDB	62	40	2	0	85	38	10	17



Unknown #,10

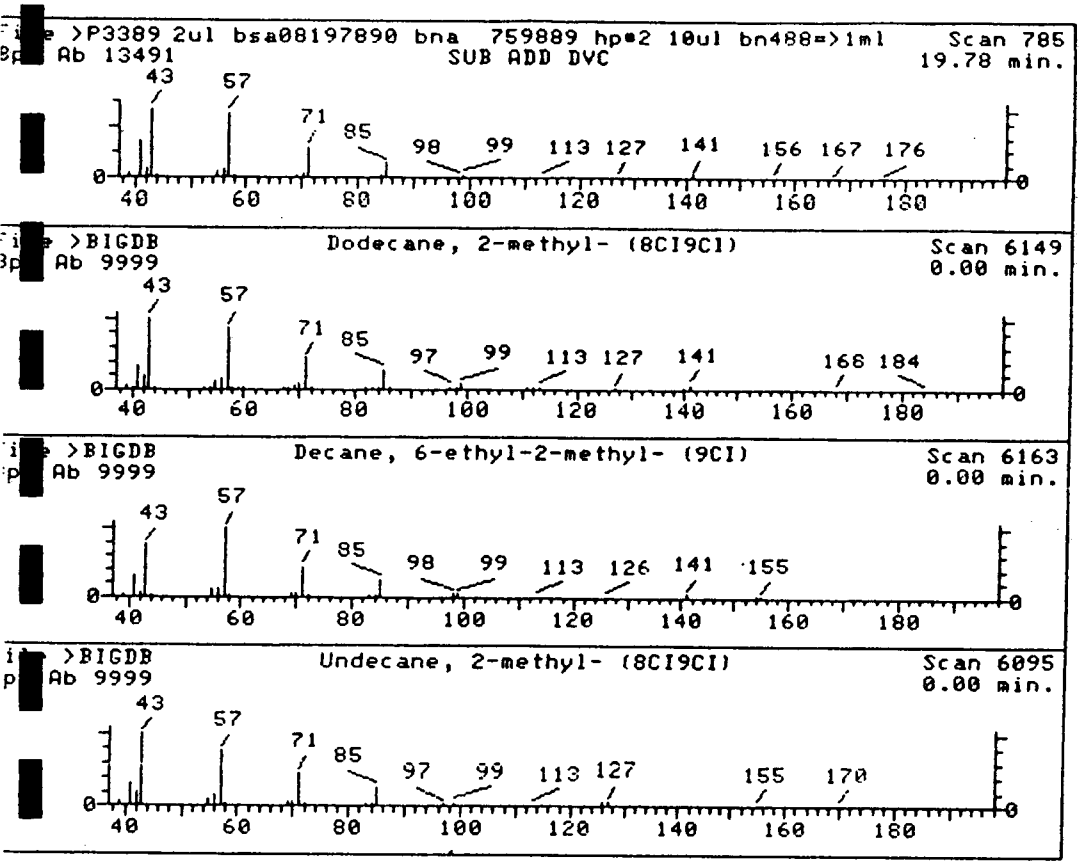
Area = 183593.0 Tentative Concentration is 41.00

1.	Nonane, 3,7-dimethyl- (8CI9CI)	156 C11H24
2.	Dodecane, 4,6-dimethyl- (9CI)	198 C14H30
3.	Tetradecane, 1-iodo- (8CI9CI)	324 C14H29I
4.	Dodecane, 2,7,10-trimethyl- (9CI)	212 C15H32
5.	Heptane, 3-ethyl-5-methyl- (9CI)	142 C10H22
6.	3-Hexanone, 2,2-dimethyl- (8CI9CI)	128 C8H16O
7.	Hexane, 4-ethyl-2-methyl- (8CI9CI)	128 C9H20

Sample file: >P3389 Spectrum #: 765

Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	70	17302328	6100	"BIGDB	52	34	2	0	68	7	42	18
2.	70	61141728	3960	"BIGDB	60	50	2	0	69	10	42	12



Unknown #,11

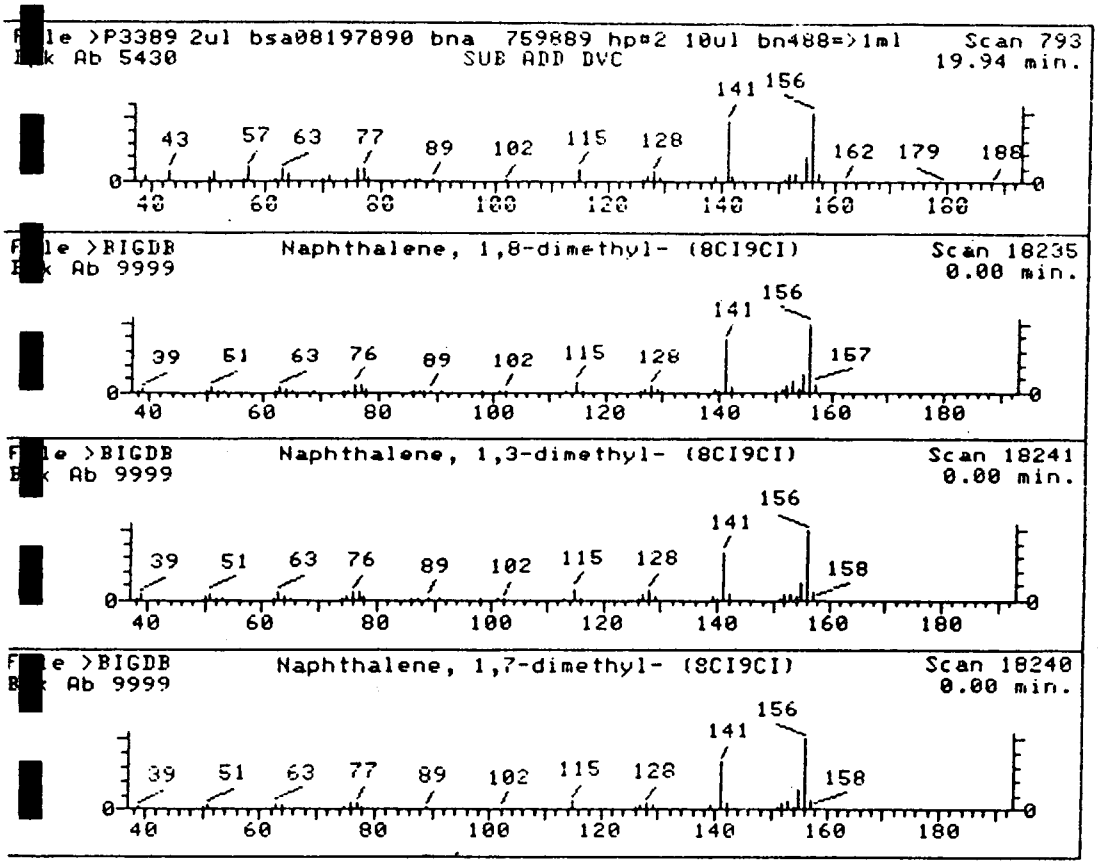
Area = 193771.0 Tentative Concentration is 43.00

1.	Dodecane, 2-methyl- (8CI9CI)	184 C13H28
2.	Decane, 6-ethyl-2-methyl- (9CI)	184 C13H28
3.	Undecane, 2-methyl- (8CI9CI)	170 C12H26
4.	Decane, 3-methyl- (8CI9CI)	156 C11H24
5.	Undecane, 5-ethyl- (8CI)	184 C13H28
6.	Octane, 2,4,6-trimethyl- (9CI)	156 C11H24
7.	Undecane, 3,6-dimethyl- (8CI)	184 C13H28

Sample file: >P3389 Spectrum #: 785

Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	83	1560970	6149	"BIGDB	65	36	2	0	83	4	57	23
2.	76	62108218	6163	"BIGDB	69	30	2	0	88	6	45	24
3.	76	7045718	6095	"BIGDB	60	34	2	0	84	7	45	21
4.	70*	13151343	13424	"BIGDB	34	60	3	0	78	10	42	13
5.	70	17453940	6198	"BIGDB	54	44	2	0	93	6	42	14

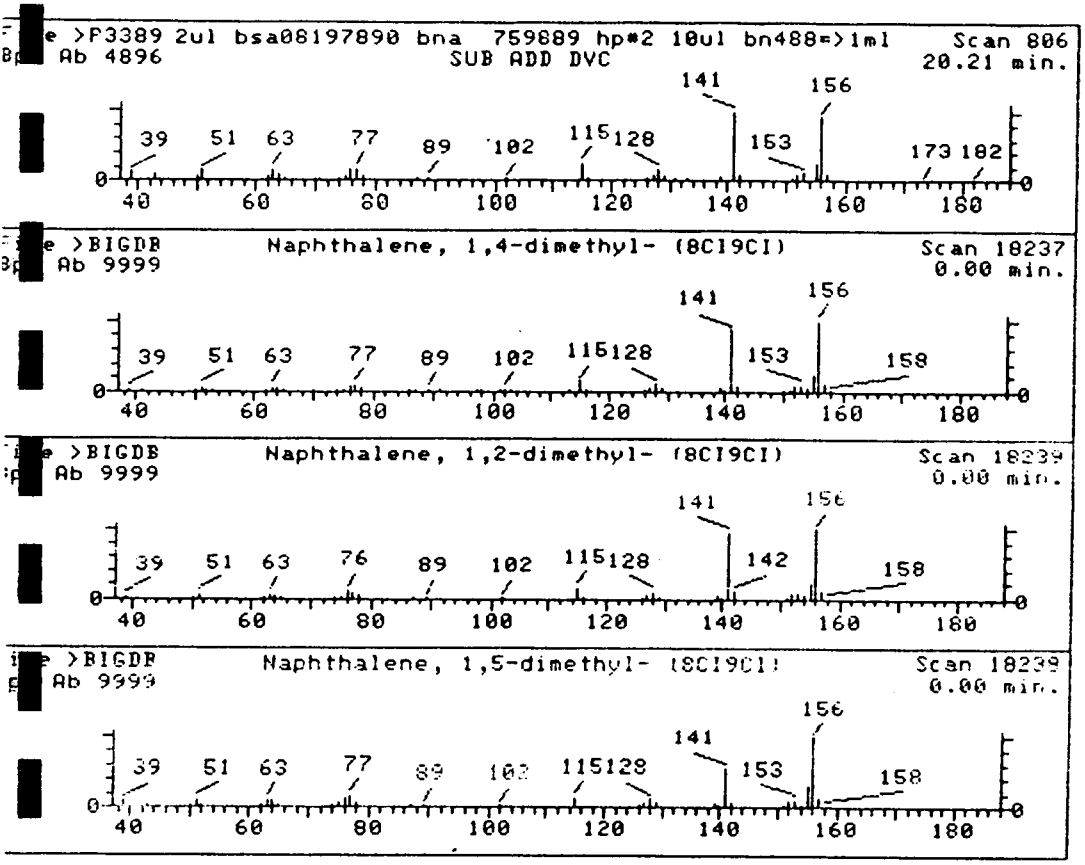


Unknown #,12
Area = 131817.0 Tentative Concentration is 29.00

1.	Naphthalene, 1,8-dimethyl- (8CI9CI)	156 C12H12
2.	Naphthalene, 1,3-dimethyl- (8CI9CI)	156 C12H12
3.	Naphthalene, 1,7-dimethyl- (8CI9CI)	156 C12H12
4.	Naphthalene, 2,3-dimethyl- (8CI9CI)	156 C12H12
5.	Naphthalene, 1,4-dimethyl- (8CI9CI)	156 C12H12
6.	Naphthalene, 1,5-dimethyl- (8CI9CI)	156 C12H12
7.	Naphthalene, 1,2-dimethyl- (8CI9CI)	156 C12H12

Sample file: >P3389 Spectrum #: 793
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	93*	569415	18235	"BIGDB	88	22	1	0	100	0	68	86
2.	89*	575417	18241	"BIGDB	87	20	2	0	100	0	66	66
3.	89*	575371	18240	"BIGDB	74	34	1	0	100	0	66	72
4.	89*	581408	18243	"BIGDB	70	36	1	0	93	2	66	69
5.	87*	571584	18237	"BIGDB	58	50	1	0	100	0	63	49
6.	86*	571619	18238	"BIGDB	86	23	1	0	100	16	50	83
7.	86*	573988	18239	"BIGDB	75	38	1	0	85	6	59	73

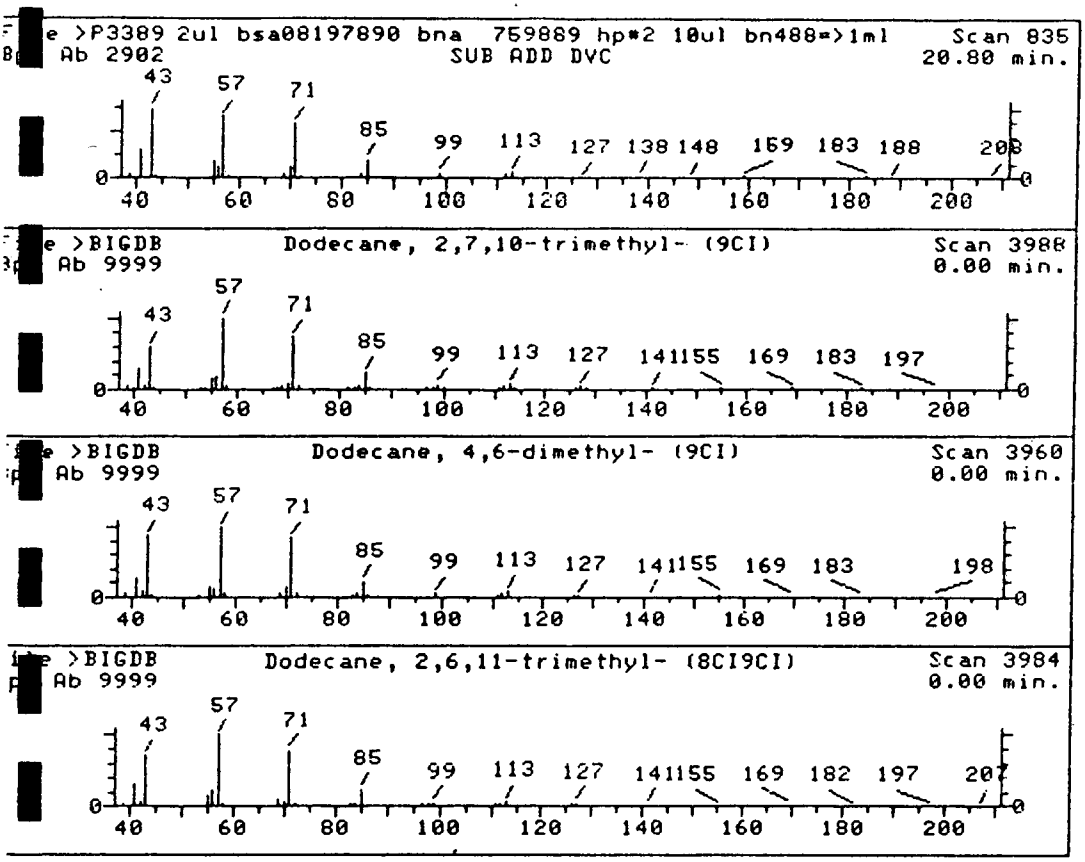


Unknown #,13
ea = 242967.0 Tentative Concentration is 54.00

1.	Naphthalene, 1,4-dimethyl- (8CI9CI)	156 C12H12
2.	Naphthalene, 1,2-dimethyl- (8CI9CI)	156 C12H12
3.	Naphthalene, 1,5-dimethyl- (8CI9CI)	156 C12H12
4.	Naphthalene, 1,8-dimethyl- (8CI9CI)	156 C12H12
5.	Naphthalene, 1,7-dimethyl- (8CI9CI)	156 C12H12
6.	Naphthalene, 1,6-dimethyl- (8CI9CI)	156 C12H12
7.	Naphthalene, 1,3-dimethyl- (8CI9CI)	156 C12H12

Sample file: >P3389 Spectrum #: 806
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1	89*	571584	18237	"BIGDB	81	27	1	0	89	5	66	77
2.	86*	573988	18239	"BIGDB	81	32	1	0	81	9	59	77
3	81*	571619	18238	"BIGDB	77	32	1	0	81	19	45	74
4	81*	569415	18235	"BIGDB	77	33	1	0	85	19	45	74
5.	78*	575371	18240	"BIGDB	77	31	1	0	87	21	41	74
6	73*	575439	18242	"BIGDB	64	44	1	0	81	23	32	63
7	70*	575417	18241	"BIGDB	70	37	2	0	81	19	32	50

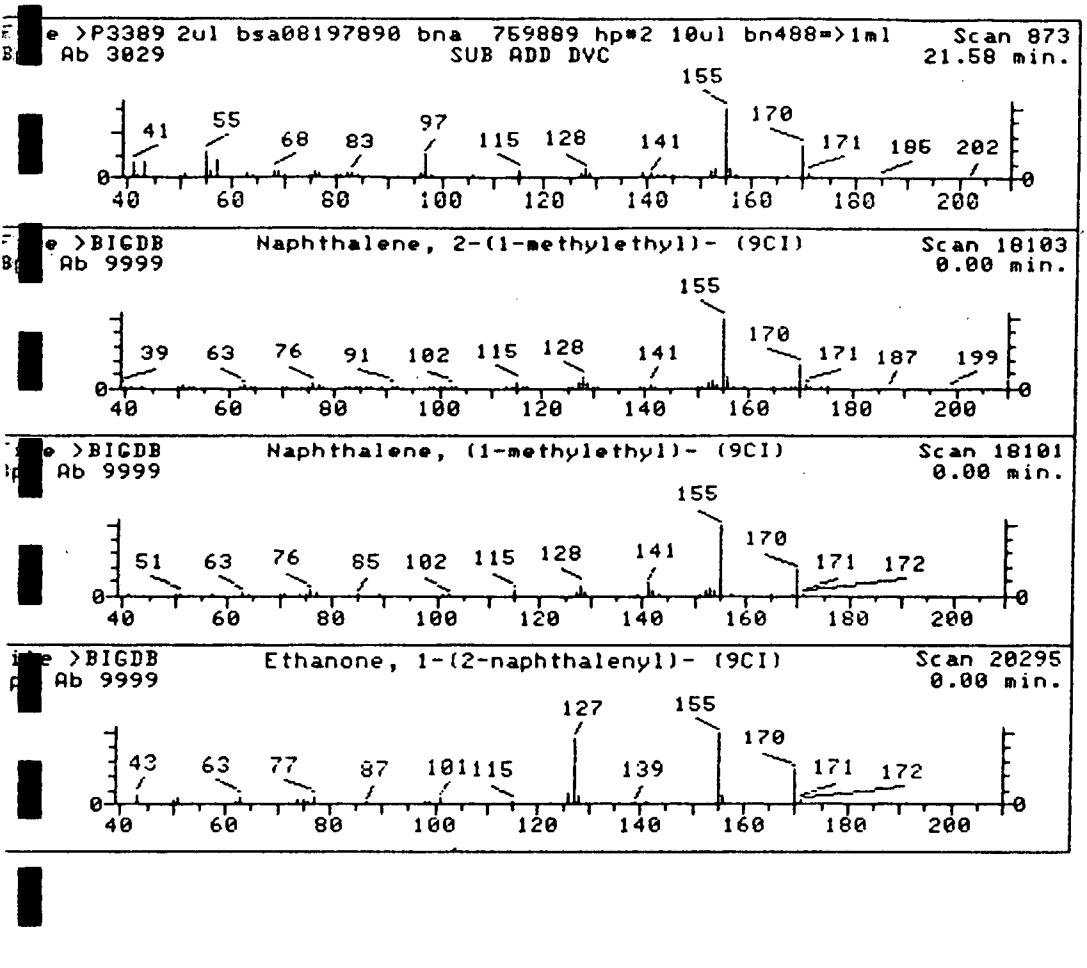


Unknown #,14
ea = 114876.0 Tentative Concentration is 25.00

1.	Dodecane, 2,7,10-trimethyl- (9CI)	212 C15H32
2.	Dodecane, 4,6-dimethyl- (9CI)	198 C14H30
3.	Dodecane, 2,6,11-trimethyl- (8CI9CI)	212 C15H32
4.	Octane, 2,3,7-trimethyl- (9CI)	156 C11H24
5.	Heptane, 3-ethyl-5-methyl- (9CI)	142 C10H22
6.	Octane, 3-ethyl- (8CI9CI)	142 C10H22
7.	Octane, 2,3,6-trimethyl- (9CI)	156 C11H24

Sample file: >P3389 Spectrum #: 835
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
	83	74645980	3988	"BIGDB	75	34	2	0	88	3	57	24
2.	83	61141728	3960	"BIGDB	73	37	2	0	88	2	57	21
3	78	31295564	3984	"BIGDB	67	39	2	0	87	4	55	19
4	71	62016346	3962	"BIGDB	69	24	1	0	81	11	38	34

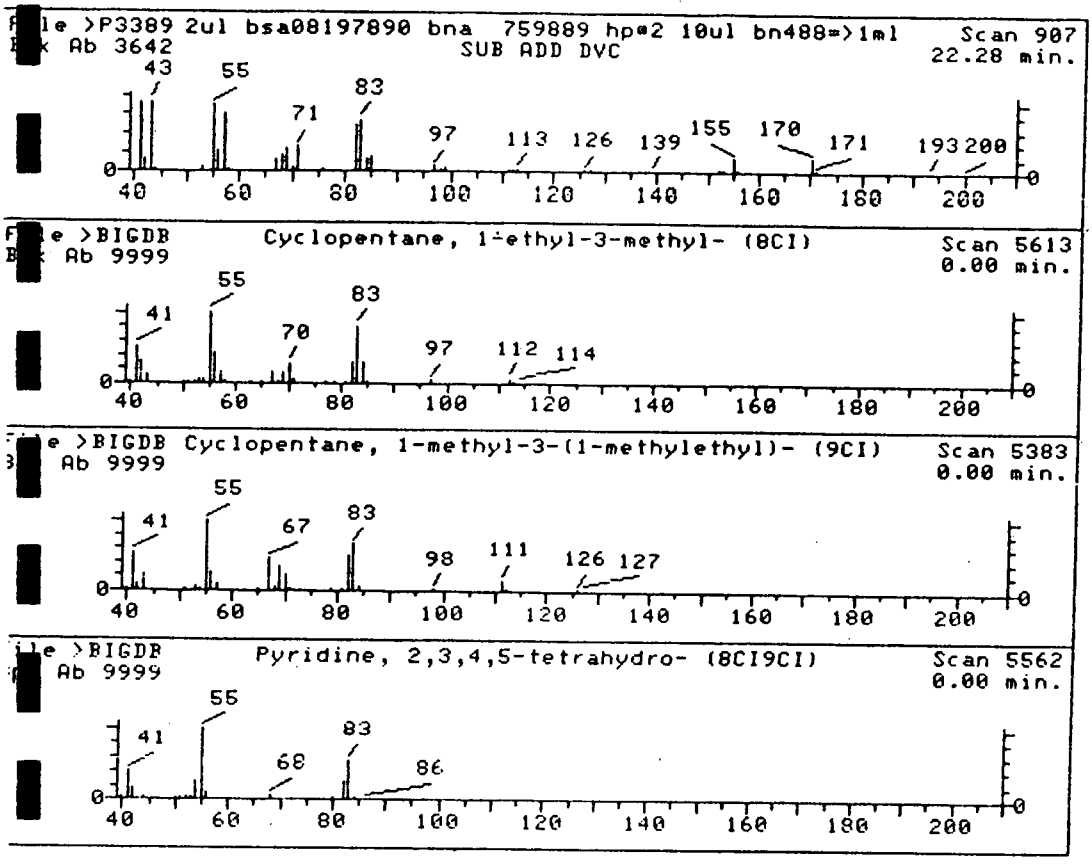


Unknown #,16
ea = 121233.0 Tentative Concentration is 26.00

1.	Naphthalene, 2-(1-methylethyl)- (9CI)	170	C13H14
2.	Naphthalene, (1-methylethyl)- (9CI)	170	C13H14
3.	Ethanone, 1-(2-naphthalenyl)- (9CI)	170	C12H10O
4.	Ethanone, 1-(1-naphthalenyl)- (9CI)	170	C12H10O
5.	Silane, (2-ethyl-1-methyl-1-butenyl)trimethyl- (9CI)	170	C10H22Si
6.	Ethanone, 1-(5-chloro-2-hydroxyphenyl)- (9CI)	170	C8H7ClO2
7.	Pyridine, 2-phenyl- (8CI9CI)	155	C11H9N

Sample file: >P3389 Spectrum #: 873
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
64*	2027170	18103	"BIGDB	62	38	2	0	82	23	28	40



Unknown #,17

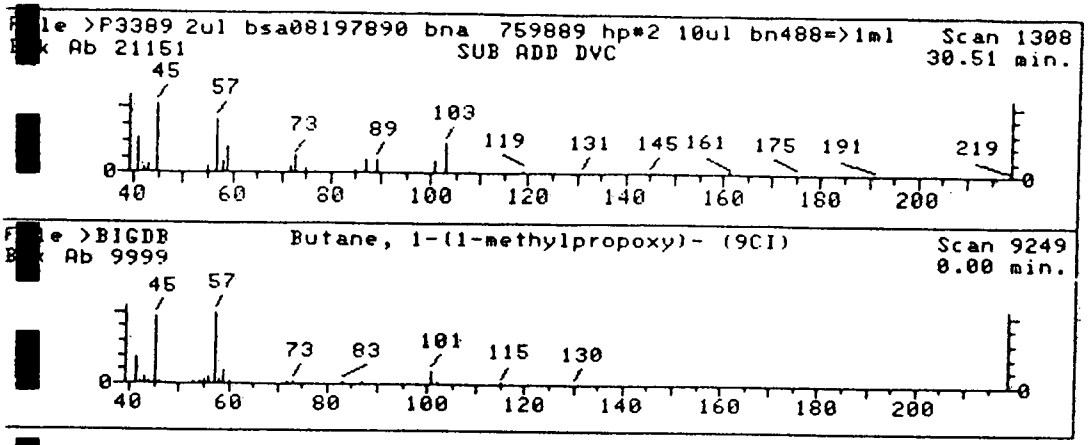
Area = 126135.0 Tentative Concentration is 27.00

1.	Cyclopentane, 1-ethyl-3-methyl- (8CI)	112 C8H16
2.	Cyclopentane, 1-methyl-3-(1-methylethyl)- (9CI)	126 C9H18
3.	Pyridine, 2,3,4,5-tetrahydro- (8CI9CI)	83 C5H9N
4.	Heptanenitrile (8CI9CI)	111 C7H13N
5.	1-Azabicyclo[3.1.0]hexane (8CI9CI)	83 C5H9N
6.	Cyclohexane, azido- (8CI9CI)	125 C6H11N3

Sample file: >P3389 Spectrum #: 907

Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1	30*	3726474	5613	"BIGDB	47	60	1	0	66	46	10	24



Unknown #,20
Area = 509302.0 Tentative Concentration is 110.00

1. Butane, 1-(1-methylpropoxy)- (9CI) 130 C8H18O

Sample file: >P3389 Spectrum #: 1308
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

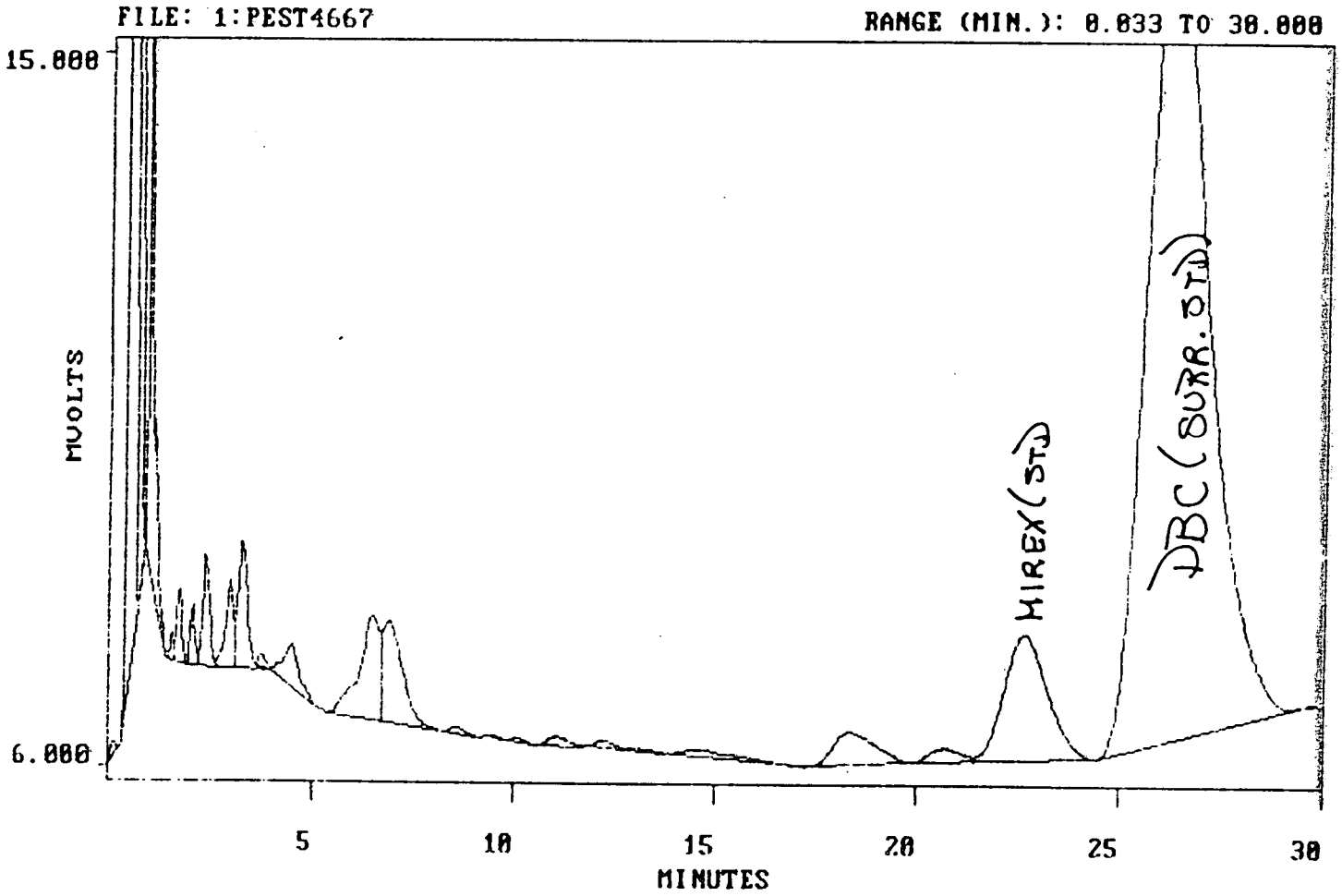
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26	999655	9249	"BIGDB	38	48	2	0	78	38	10	12

BSA08197890

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time: 16:41:51 Date: MON 14 SEP 87

Time: 19:03:18 Date: FRI 11 SEP 87
Method: PEST1



Channel # . . . . REINT Time 16:33:04 Date MON 14 SEP 87

Sample name
Data file 1:PEST4667
Method name PEST1

Author . . . . . URM
Instrument 4
Column . . . . . 1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes . . . . . SUPELCOPORT

Run time . . . . 30.00 min. Delay time . . 0.00 min.
Acq. time . . . . 19:03:18 Acq. date . . . FRI 11 SEP 87
Start PW . . . . . 20.00 sec. End PW . . . . . 150.00 sec.
Actual PW . . . 140.0
Slope sens . . . 0.70 uv/sec

Area reject . . 500
peaks found . 25
Vol Inj . . . . 5.0 ul Sample amount . . 1.000
Conv factor . . . 1.000

==========

METHOD NOT CALIBRATED!

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MISSING PEAKS LIST

R T (min)	Peak name	Group	Ref/Std
2.575	LINDANE	0	
3.130	HEPTACHLOR	0	
5.760	HEPTACHLOR EPOXI	0	
7.139	ENDOSULFAN I	0	
8.208	P,P'-DDE	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
27.978	DBC/METHOX/END K	0	

Ronarell 9/17/87

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AREA PERCENT REPORT

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Peak	R.T. (min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.168			0.033	2145	191	BB
2	0.534			74.869	4940770	859444	BE
3	0.703			1.380	91051	14275	EB
4	0.874						

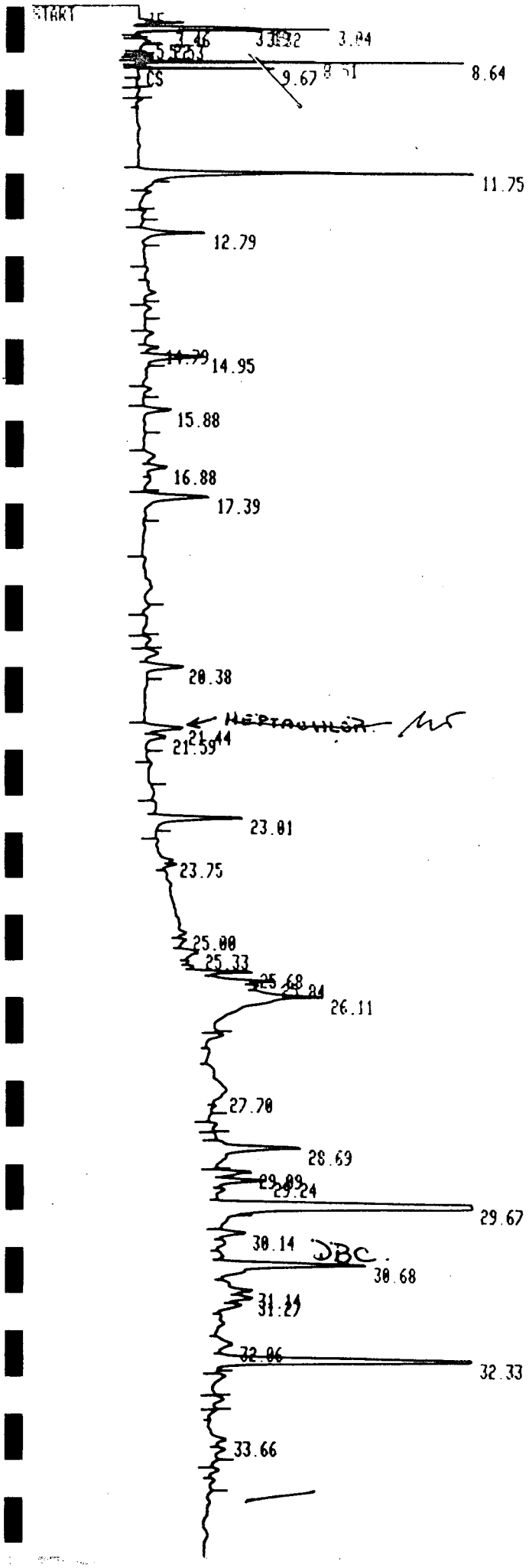
191

	6	1.756		0.122	8023	971	VB
.09-2.21	7	2.094	~~alpha BHC~~ MLK	0.100	6583	788	BV
	8	2.414		0.238	15679	1490	VV
2.95-3.13	9	2.986	~~beta BHC~~ MLK.	0.225	14863	1183	VV
3.15-3.33	10	3.281	~~delta-BHC~~ MLK. ~~HEPTACHLOR~~ MS	0.374	24674 265.2/.22	1668	VE
	11	3.763	~~ALDRIN~~ MLK	0.034	2218	187	EB
	12	4.487		0.204	13494	541	BB
	13	6.420		0.732	48306	1356	BV
	14	6.866		0.675	44566	1322	VB
~~8.43-8.91~~ MLK	15	8.544	~~DIELDRIN~~ MLK	0.029	1900	84	BB
	16	10.038		0.011	698	33	BB
	17	10.990	~~ENDO~~ MLK	0.061	3999	111	BB
~~12.09-12.81~~ MLK	18	12.264	~~P,P'-DDD~~ MLK.	0.063	4158	90	BB
	19	14.567		0.110	7284	82	BB
	20	18.340		0.484	31944	436	BB
	21	20.705		0.153	10109	184	BV
	22	22.652 S	MIREX (STD.)	1.885	124381	1644	VB
	23	26.239		17.069	1126405 300/9.01	10616	EE
	---			---	---		
	TOTALS			100.000	6599182		

4.0 ug/l DBC SPIKED ~~9.01~~ MLK

225%

172



759890

BSA08197890

RUN # 163 SEP/14/87 19:; 31
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 5

HP5890
SP8608

AREA%

RT	AREA	TYPE	AR/HT	AREA%
3.04	63100	BV	0.044	1.033
3.19	30407	VP	0.037	0.498
3.32	82704	PP	0.049	1.354
5.22	95395	BV	0.504	1.562
8.51	169600	PV	0.051	2.777
8.64	365900	VB	0.060	5.990
9.67	131890	PB	0.052	2.159
11.75	390950	PB	0.053	6.400
12.79	76868	PB	0.065	1.258
14.95	76516	PB	0.073	1.253
15.88	36830	BB	0.071	0.603
16.88	37733	VV	0.085	0.618
17.39	129360	BB	0.108	2.118
20.38	58955	PB	0.084	0.965
21.44	60244	PV	0.085	0.986
21.59	34494	VB	0.090	0.565
23.01	116120	PB	0.072	1.901
25.00	87493	PV	0.434	1.432
25.33	32532	PV	0.104	0.533
25.68	67938	VV	0.060	1.112
25.84	133200	VV	0.091	2.181
26.11	512760	VB	0.229	8.395
27.70	123240	PV	0.366	2.018
28.69	171950	BB	0.110	2.815
29.09	52371	BV	0.078	0.857
29.24	69860	VV	0.076	1.144
29.67	1778500	PB	0.081	29.116
30.14	33741	BP	0.070	0.552
30.68	280140	VV	0.102	4.586
31.14	84126	VV	0.125	1.377
31.27	67326	VV	0.099	1.102
32.06	45951	PV	0.141	0.752
32.33	589530	VB	0.080	9.651
33.66	20523	PV	0.082	0.336

TOTAL AREA= 6108200
MUL FACTOR= 1.0000E+00

RAW DATA TRANSMITTED FILE: RW4037::-27
CARD-PTS TRANSMITTED FILE: CP4078::-27

Ronarelli
9/17/87

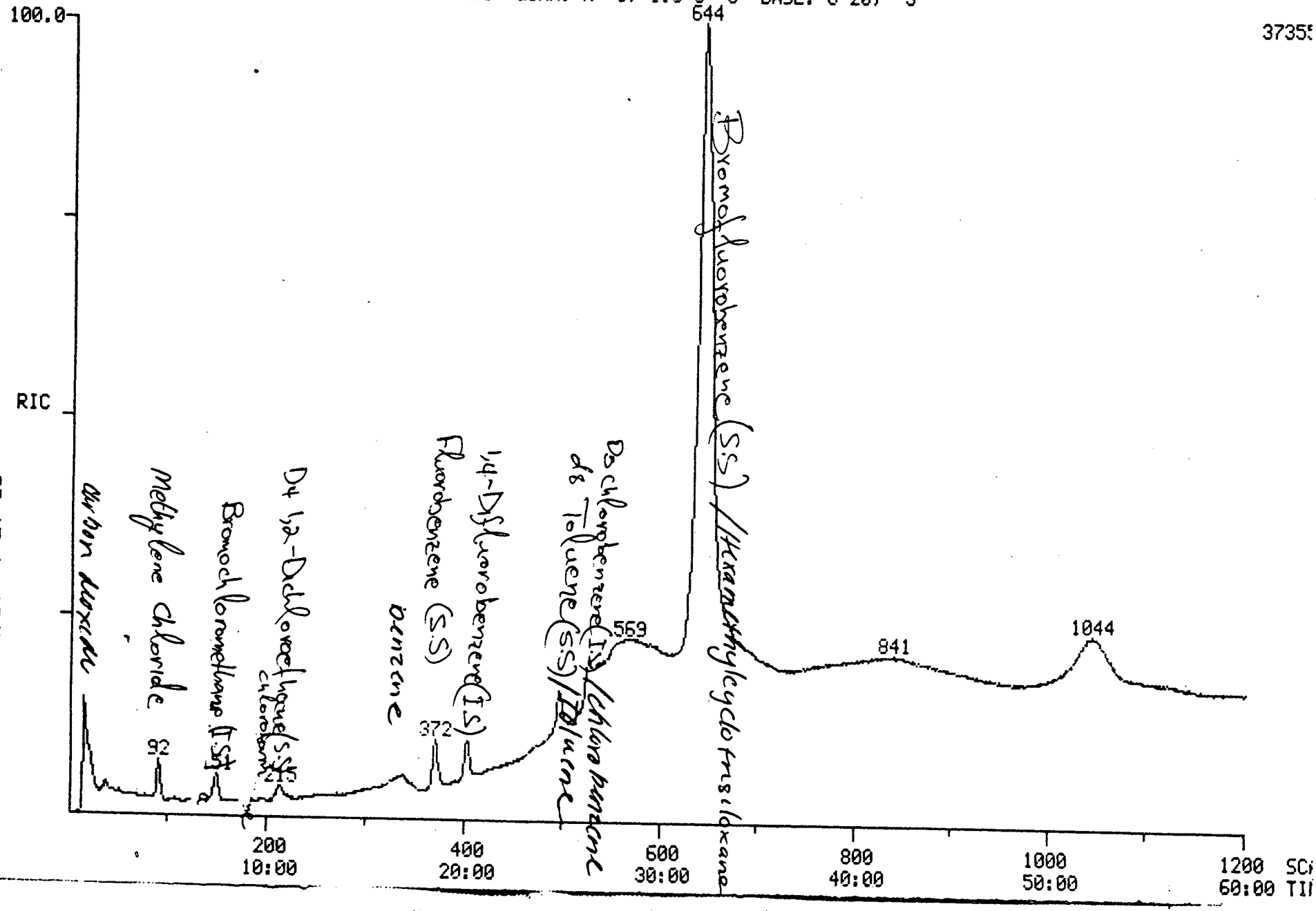
023

III. 2. Reporting Package for NJDEP # SW1

RIC
08/26/87 23:23:00
SAMPLE: 3MLS #BSA 08197991
CONDS.:
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU7418 #1
CALI: PU7418 #2

SCANS 1 TO 1200



TCA FINISHED, 10 FOUND
FINISHED AT: 9/04/87 9:17:58

QUANTITATION REPORT FILE: PU7418

DATA: PU7418.TI
08/26/87 23:23:00
SAMPLE: 3MLS #BSA 08197991
COMDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

No	Name
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	
1	128	151	7:33	1	1.000	A BB	71555.	30.000	UG/L	1.12	
2	65	215	10:45	1	1.424	A BB	112464.	34.462	UG/L	1.29	
3	50	20	1:00	1	0.132	A BB	11288.	1.196	UG/L	0.04	
4	94	33	1:39	1	0.219	A BB	976.	1.257	UG/L	0.05	
5	62	44	2:12	1	0.291	A BB	799.	0.329	UG/L	0.01	
6	64	61	3:03	1	0.404	A BB	434.	0.132	UG/L	0.00	
7	84	92	4:36	1	0.609	A BB	63488.	14.101	UG/L	24 0.53	
8	43	91	4:33	1	0.603	A*BB	19444.	2.810	UG/L	0.11	
9	76	79	3:57	1	0.523	A*BB	5906.	7.785	UG/L	0.29	
10	96	146	7:18	1	0.967	A*BB	3535.	0.738	UG/L	13 0.03	MIS IDENT
11	63	171	8:33	1	1.132	A BB	910.	0.119	UG/L	0.00	
12	96	188	9:24	1	1.245	A*BB	3394.	0.725	UG/L	1.2 0.03	MIS IDENT
13	83	198	9:54	1	1.311	A BB	14539.	1.862	UG/L	3.1 0.07	
14	62	218	10:54	1	1.444	A*BB	1970.	0.236	UG/L	0.01	
15	101	130	6:30	1	0.861	A BB	1780.	0.215	UG/L	0.01	
16	85	48	2:24	1	0.318	A BB	1836.	17.328	UG/L	0.65	
17	56	145	7:15	1	0.960	A BB	2698.	177.428	UG/L	6.64	
18	53	146	7:18	1	0.967	A*VB	3684.	292.478	UG/L	10.95	
19	114	404	20:12	19	1.000	A BV	519715.	30.000	UG/L	1.12	

136

~~43~~	~~160~~	~~8:00~~	~~19~~	~~0.396~~	~~A BB~~	~~11944.~~	~~88.184 UG/L~~	~~3.30~~	
97	220	11:00	19	0.545	A*VB	~~2566.~~	~~0.780 UG/L~~	~~1.40~~ 0.03	MIS IDENT
117	231	11:33	19	0.572	A BB	462.	0.275 UG/L	0.01	
~~43~~	~~252~~	~~12:29~~	~~19~~	~~0.626~~	~~A*VB~~	~~89768.~~	~~1448.890 UG/L~~	~~54.25~~	
83	271	13:33	19	0.671	A BV	~~7477.~~	~~1.546 UG/L~~	~~2.60~~ 0.06	MIS IDENT.
NOT	FOUND								
NOT	FOUND								
NOT	FOUND								
129	339	16:57	19	0.839	A VV	4050.	0.755 UG/L	1.3 0.03	
97	294	14:42	19	0.728	A*VV	9018.	1.414 UG/L	2.4 0.05	
NOT	FOUND								
NOT	FOUND	340				57953	14,17 NG		5 ug/l
63	342	17:06	19	0.847	A VB	1275.	0.109 UG/L	0.00	
173	415	20:45	19	1.027	A BB	1199.	0.329 UG/L	0.01	
117	527	26:21	34	1.000	A BB	343654.	30.000 UG/L	1.12	
~~43~~	~~363~~	~~18:09~~	~~34~~	~~0.689~~	~~A*BV~~	~~15224.~~	~~54.959 UG/L~~	~~2.06~~	
~~43~~	~~382~~	~~19:06~~	~~34~~	~~0.725~~	~~A VB~~	~~109304.~~	~~199.108 UG/L~~	~~7.46~~	
164	470	23:30	34	0.892	A*BB	1300.	0.216 UG/L	0.01	
83	472	23:36	34	0.896	A BB	6096.	~~0.799 UG/L~~	~~1.3~~ 0.03	MIS IDENT
92	502	25:06	34	0.953	A BV	50310.	4.789 UG/L	8.0 0.18	
112	531	26:33	34	1.008	A BB	11160.	0.727 UG/L	1.2 0.03	
106	580	29:00	34	1.101	A*BB	3440.	0.450 UG/L	0.02	
~~104~~	~~597~~	~~29:51~~	~~34~~	~~1.133~~	~~A*VB~~	~~34408.~~	~~173.008 UG/L~~	~~6.48~~	
~~NOT~~	~~FOUND~~								
~~NOT~~	~~FOUND~~								
NOT	FOUND								
146	829	41:27	34	1.573	A BV	9152.	~~0.770 UG/L~~	~~1.3~~ 0.03	N.G.
146	838	41:54	34	1.590	A VV	19467.	~~1.455 UG/L~~	~~2.4~~ 0.05	
96	372	18:36	34	0.706	A BB	595500.	38.698 UG/L	1.45	
95	640	32:00	34	1.214	A BB	385216.	33.880 UG/L	1.27	

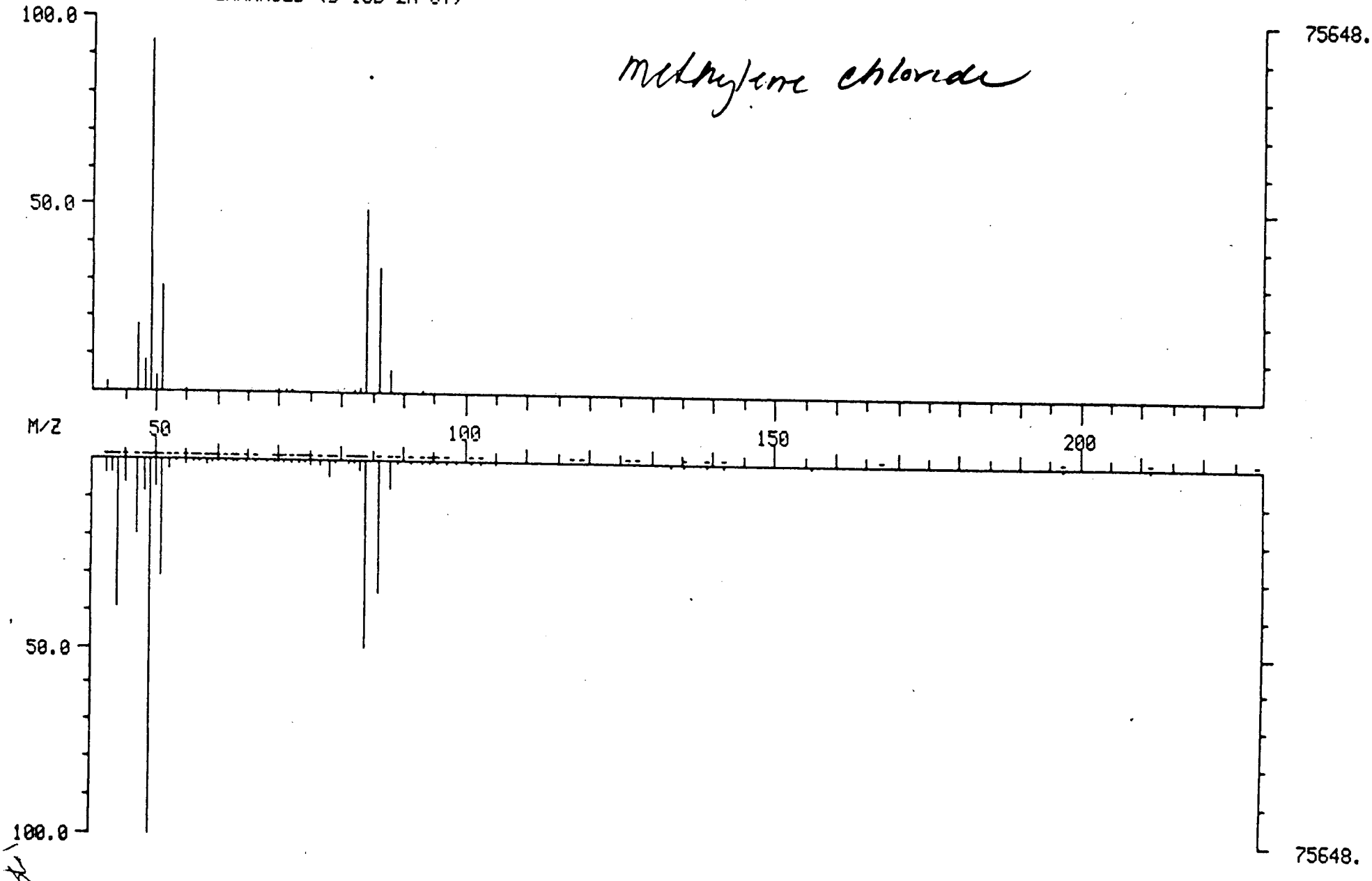
Non targeted compounds

scan #	Ref. pk.	Area	Amt (ug/l)
14	1	3565430	210
644	34	36507600	1200J

DUAL MASS SPECTRUM
08/26/87 23:23:00 + 4:36
SAMPLE: 3MLS #BSA 08197991
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7418 #92
CALI: PU7418 #2

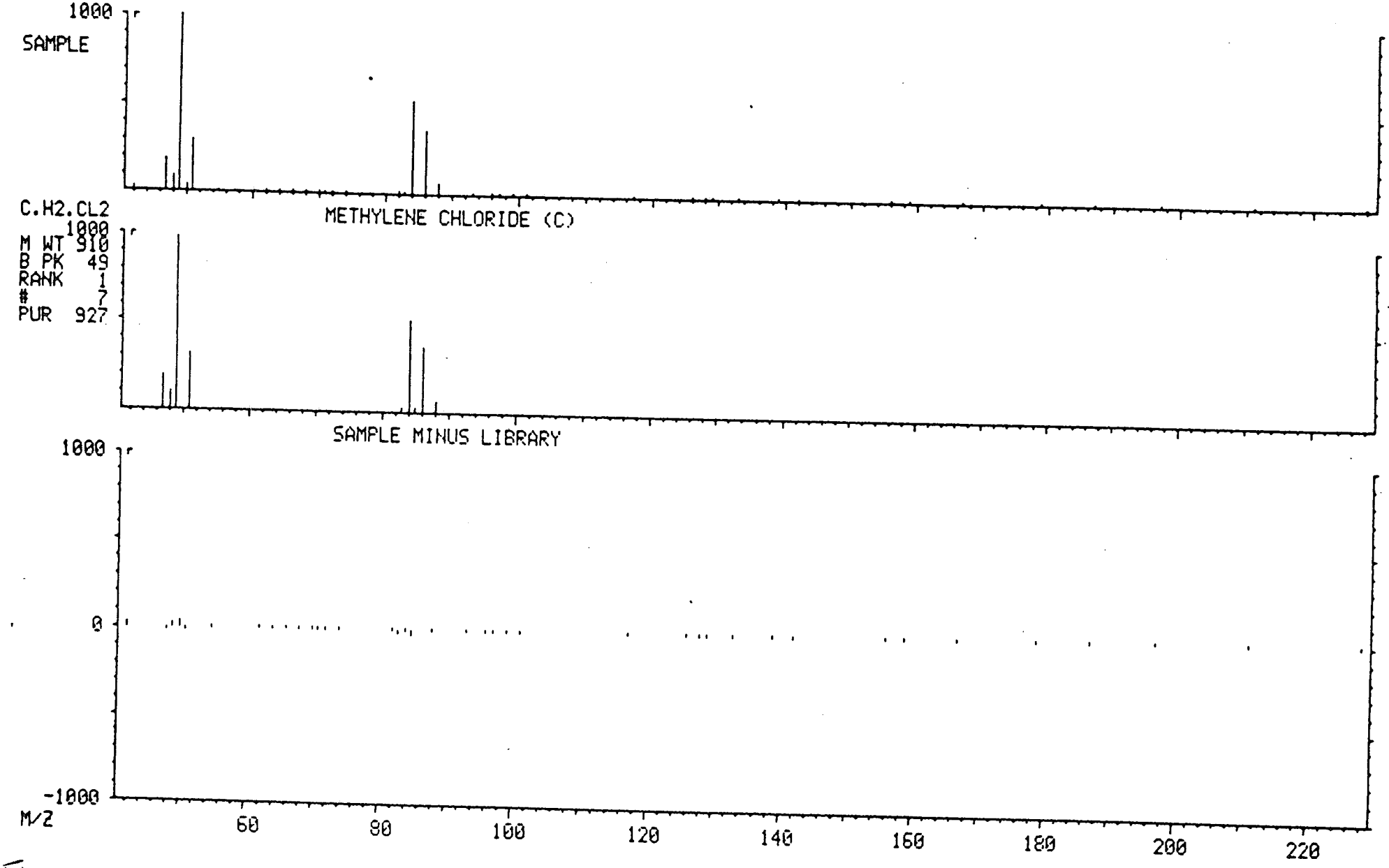
BASE M/Z: 49/ 49
RIC: 189695./ 259583.



LIBRARY SEARCH
08/26/87 23:23:00 + 4:36
SAMPLE: 3MLS #BSA 08197991
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7418 # 92
CALI: PU7418 # 2

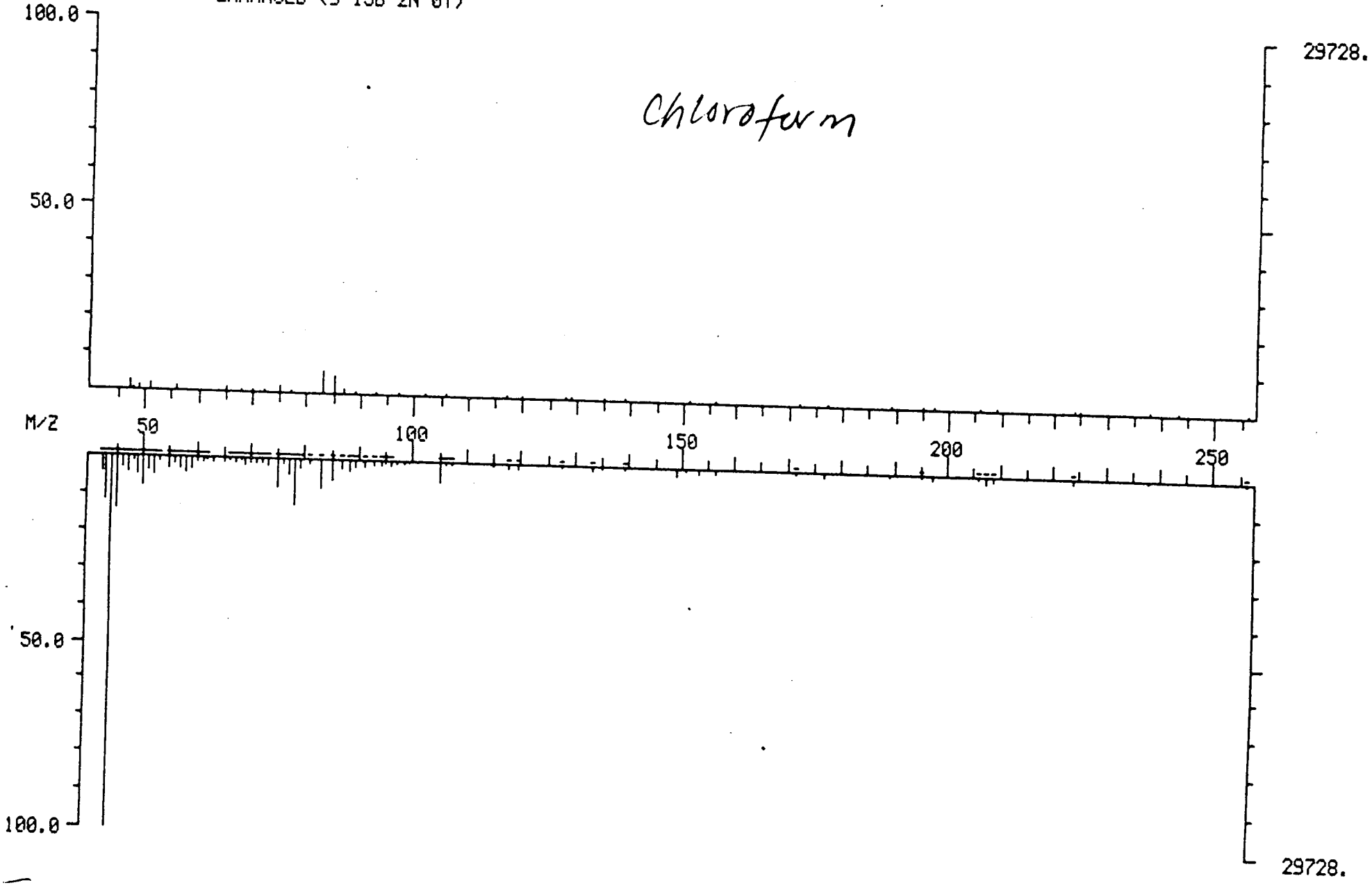
BASE M/Z: 49
RIC: 189695.



DUAL MASS SPECTRUM
08/26/87 23:23:00 + 9:54
SAMPLE: 3MLS #BSA 08197991
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7418 #198
CALI: PU7418 #2

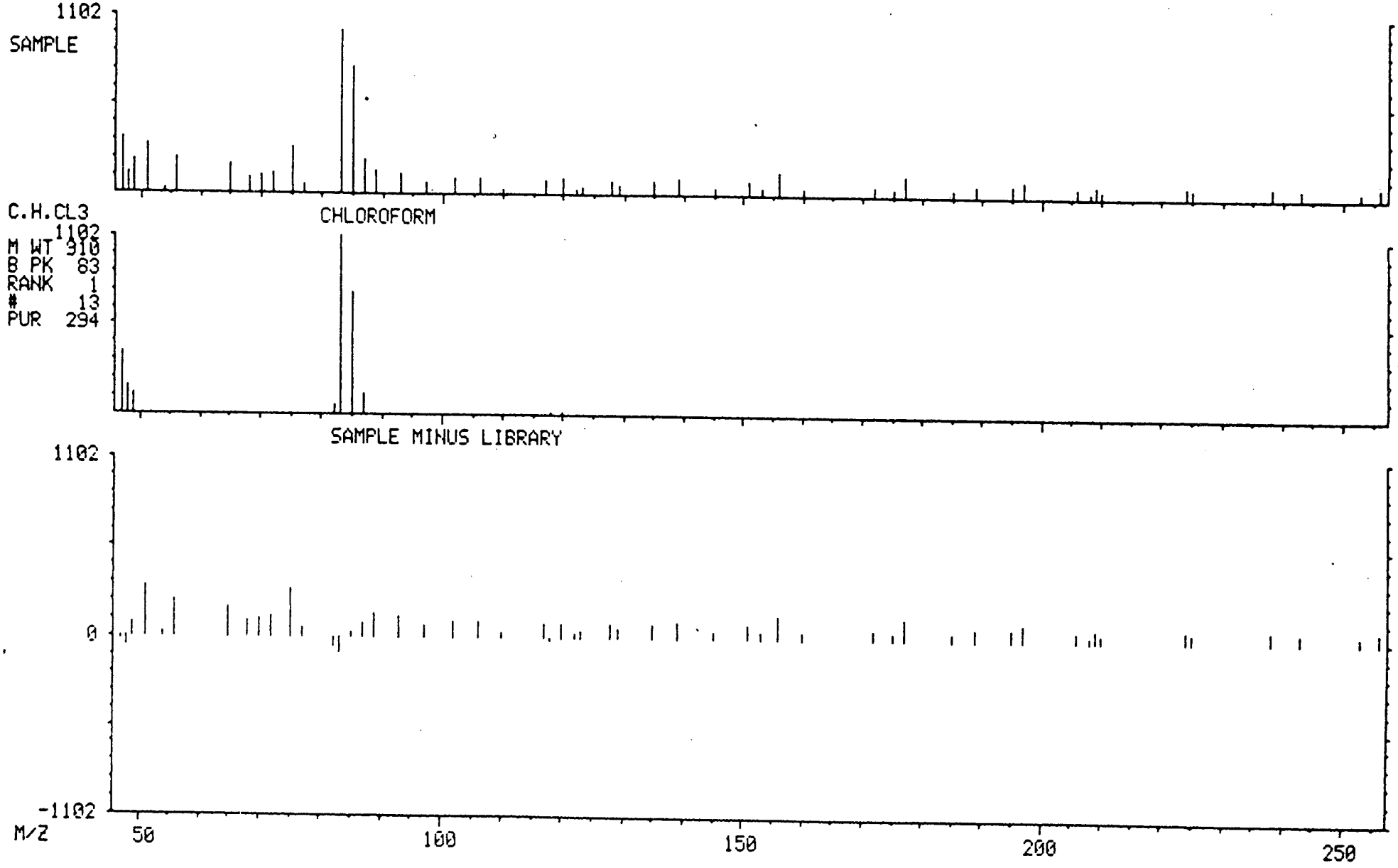
BASE M/Z: 83/ 44
RIC: 11983./ 81791.



LIBRARY SEARCH
08/26/87 23:23:00 + 9:54
SAMPLE: 3MLS #BSA 08197991
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7418 # 198
CALI: PU7418 # 2

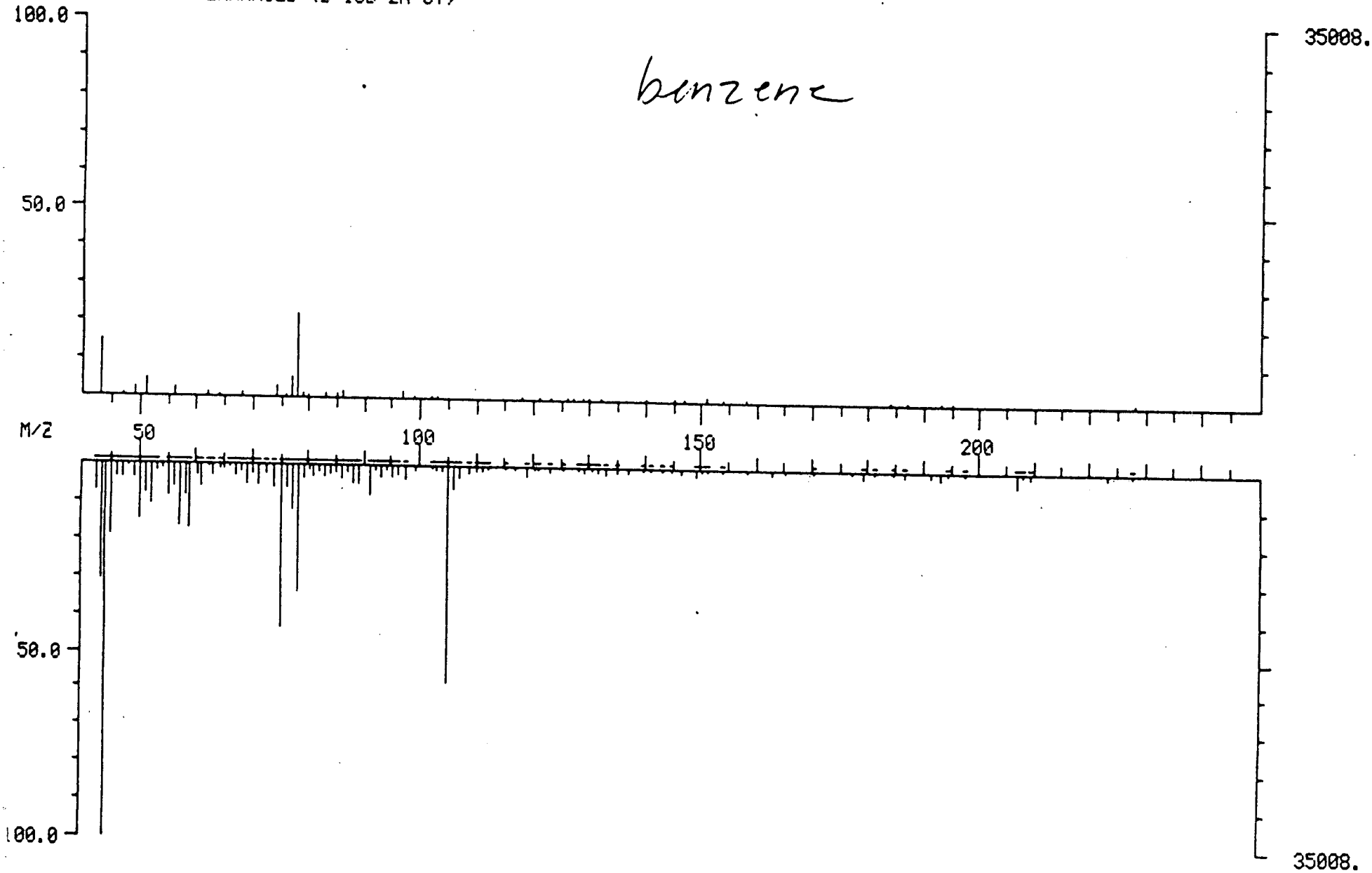
BASE M/Z: 83
RIC: 11983.



DUAL MASS SPECTRUM
08/26/87 23:23:00 + 17:00
SAMPLE: 3MLS #BSA 08197991
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7418 #340
CALI: PU7418 #2

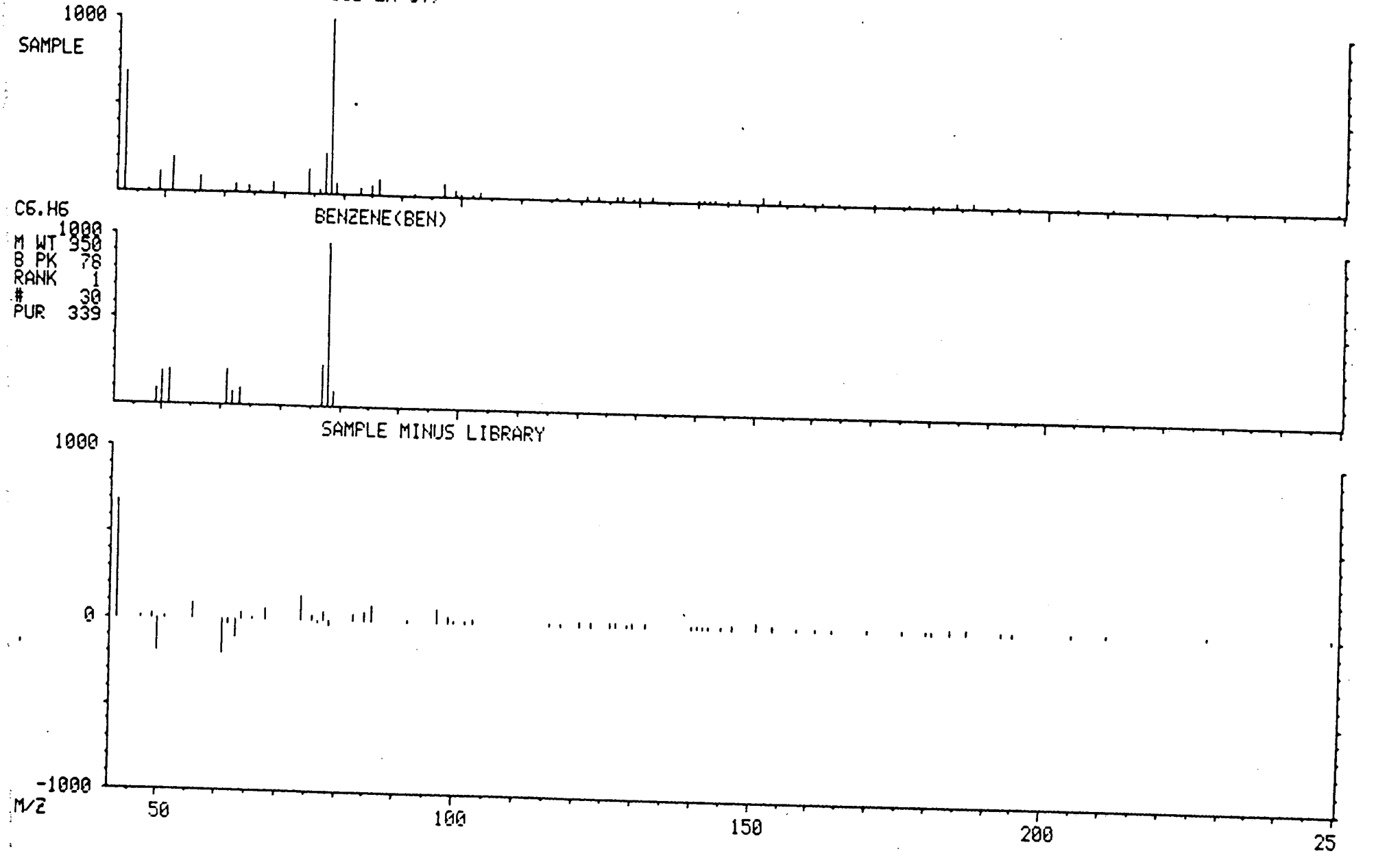
BASE M/Z: 78/ 44
RIC: 28127./ 197119.



LIBRARY SEARCH
08/26/87 23:23:00 + 17:00
SAMPLE: 3MLS #BSA 08197991
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7418 # 340
CALI: PU7418 # 2

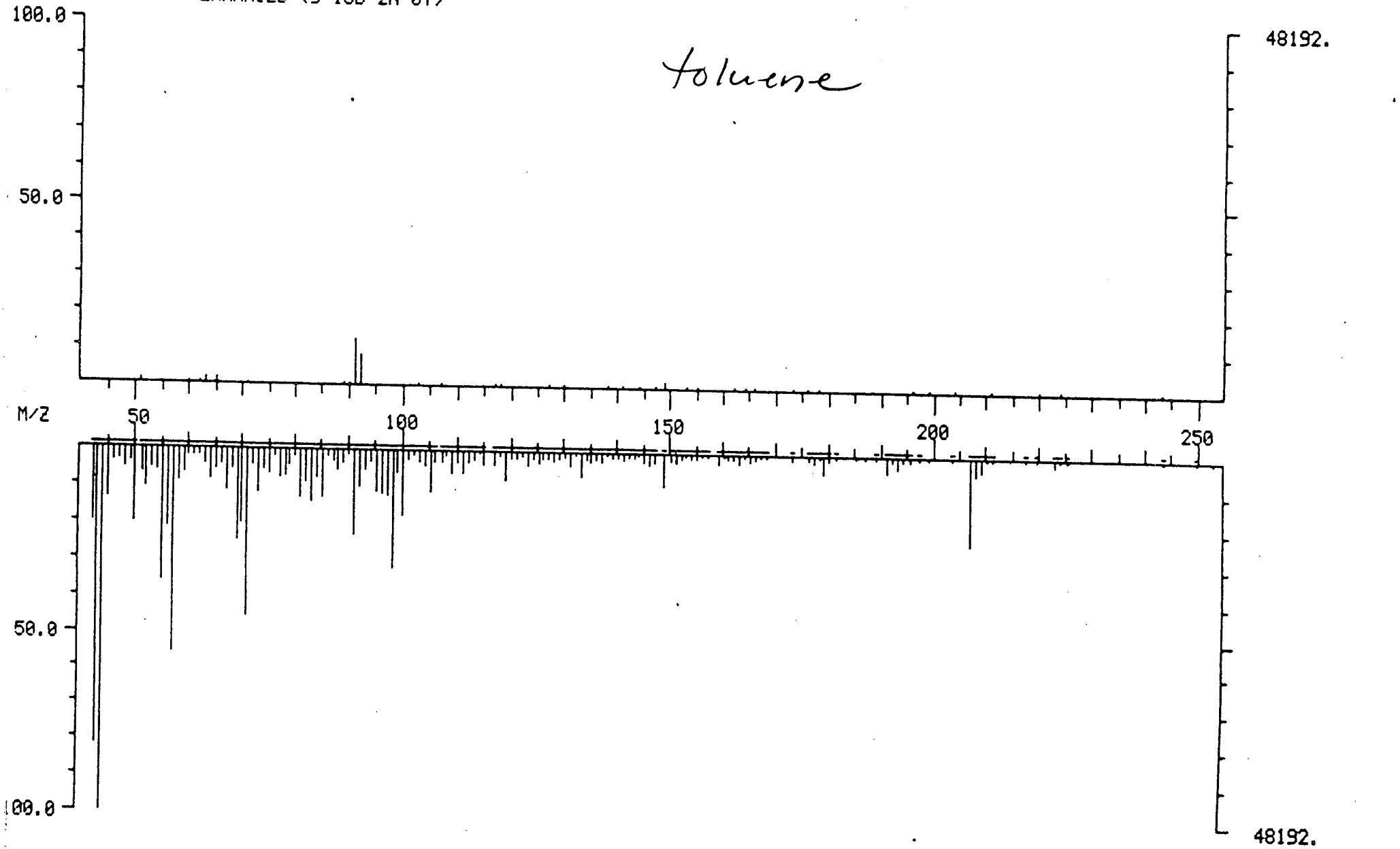
BASE M/Z: 78
RIC: 27935.



DUAL MASS SPECTRUM
08/26/87 23:23:00 + 25:06
SAMPLE: 3MLS #BSA 08137391
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7418 #502
CALI: PU7418 #2

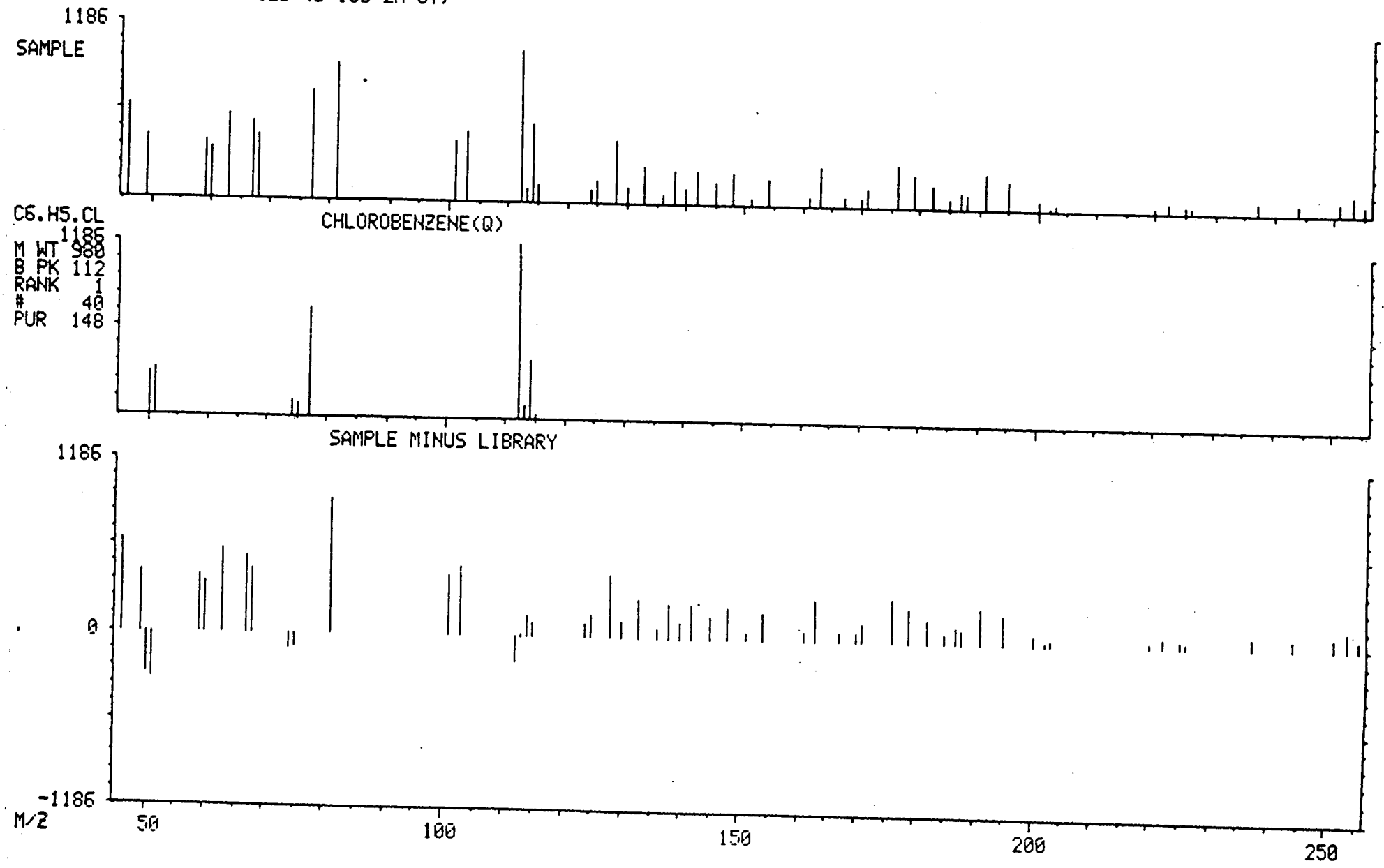
BASE M/Z: 91/ 44
RIC: 22015./ 488959.



LIBRARY SEARCH
08/26/87 23:23:00 + 26:33
SAMPLE: 3MLS #BSA 08197991
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7418 # 531
CALI: PU7418 # 2

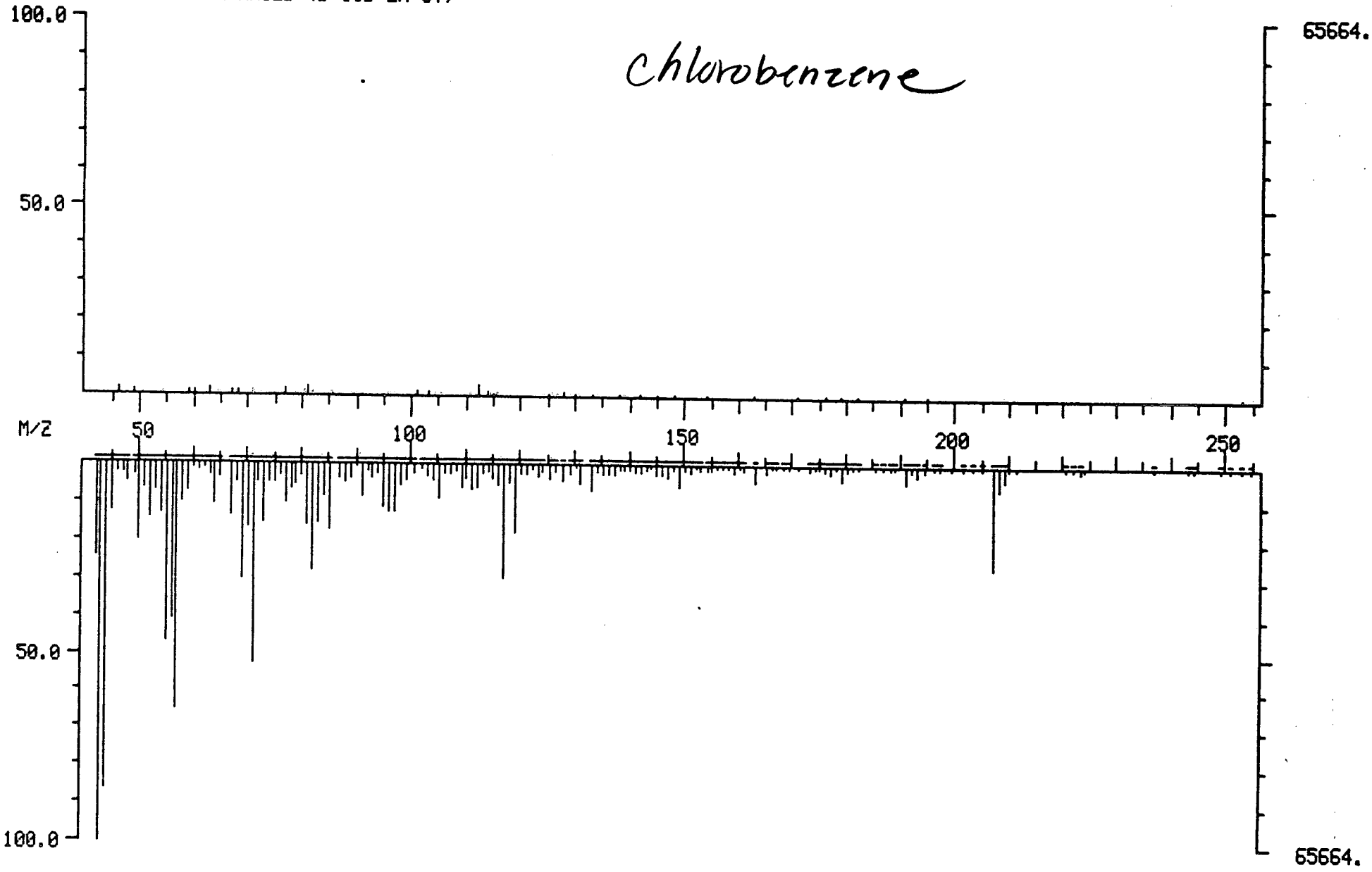
BASE M/Z: 112
RIC: 22751.



DUAL MASS SPECTRUM
08/26/87 23:23:00 + 26:33
SAMPLE: 3MLS #BSA 08197991
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7418 #531
CALI: PU7418 #2

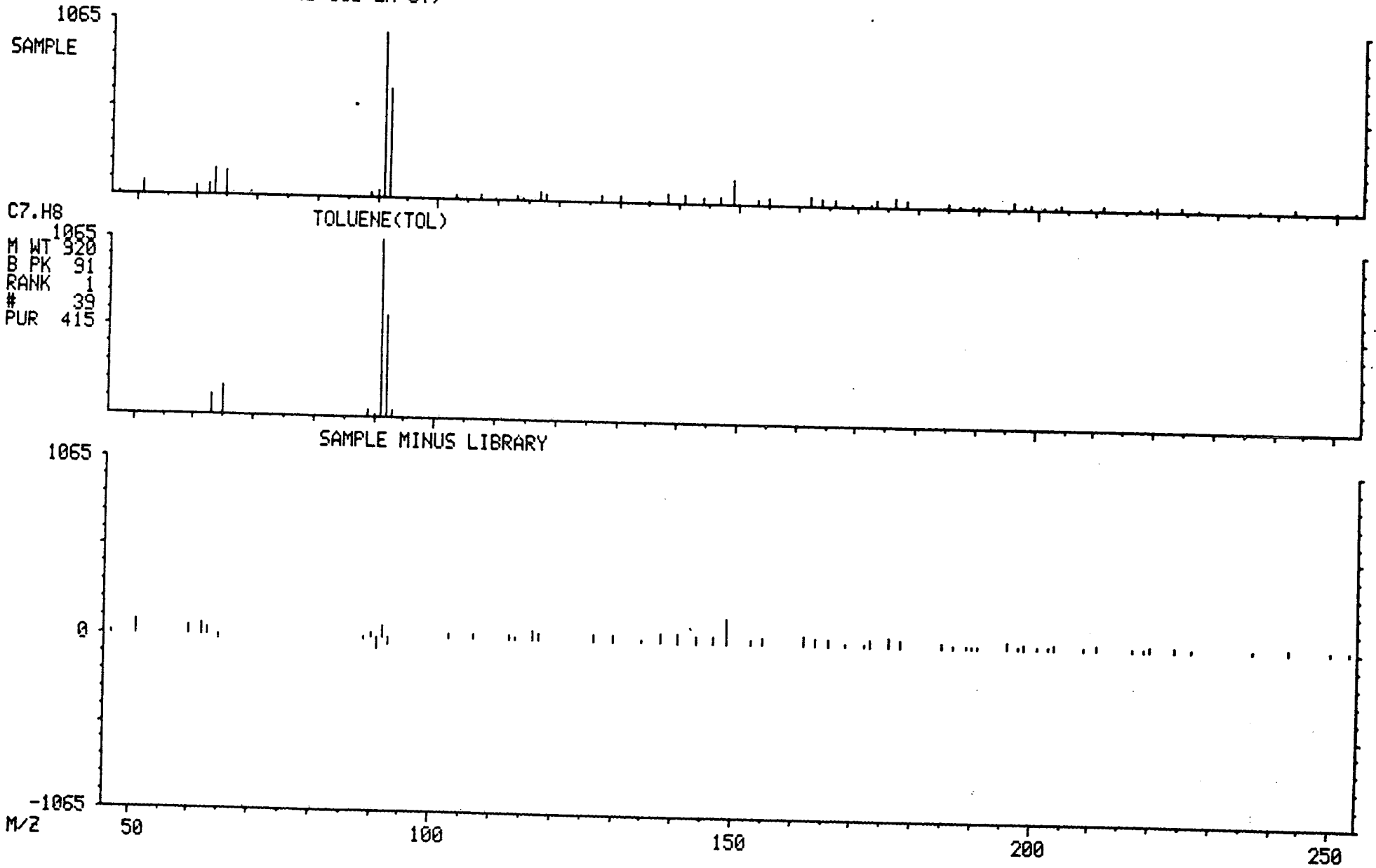
BASE M/Z: 112/ 43
RIC: 22783./ 706559.



LIBRARY SEARCH
08/26/87 23:23:00 + 25:06
SAMPLE: 3MLS #BSA 08197991
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7418 # 502
CALI: PU7418 # 2

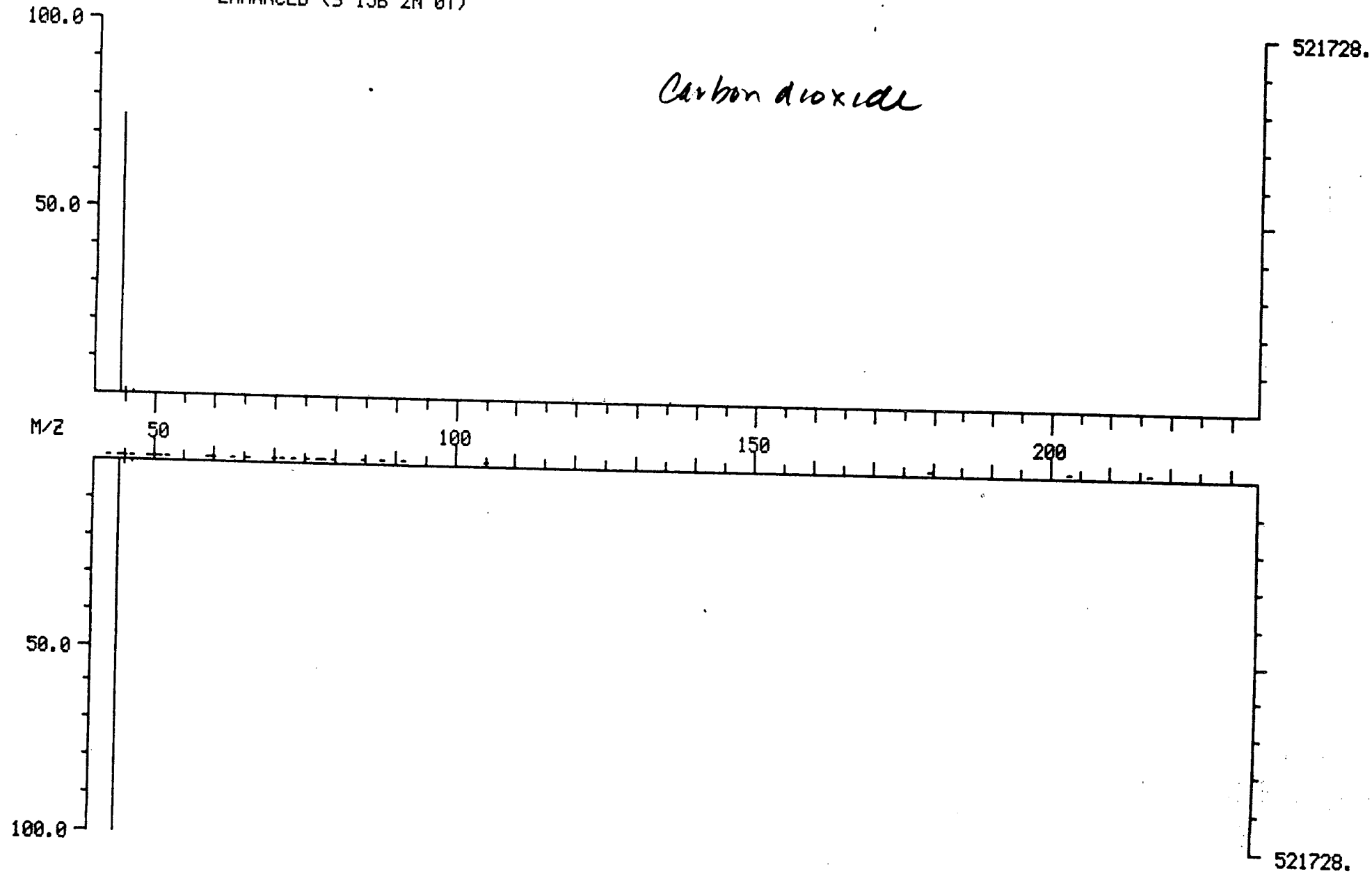
BASE M/Z: 91
RIC: 21951.



DUAL MASS SPECTRUM
08/26/87 23:23:00 + 0:48
SAMPLE: 3MLS #BSA 08197991
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7418 #16
CALI: PU7418 #2

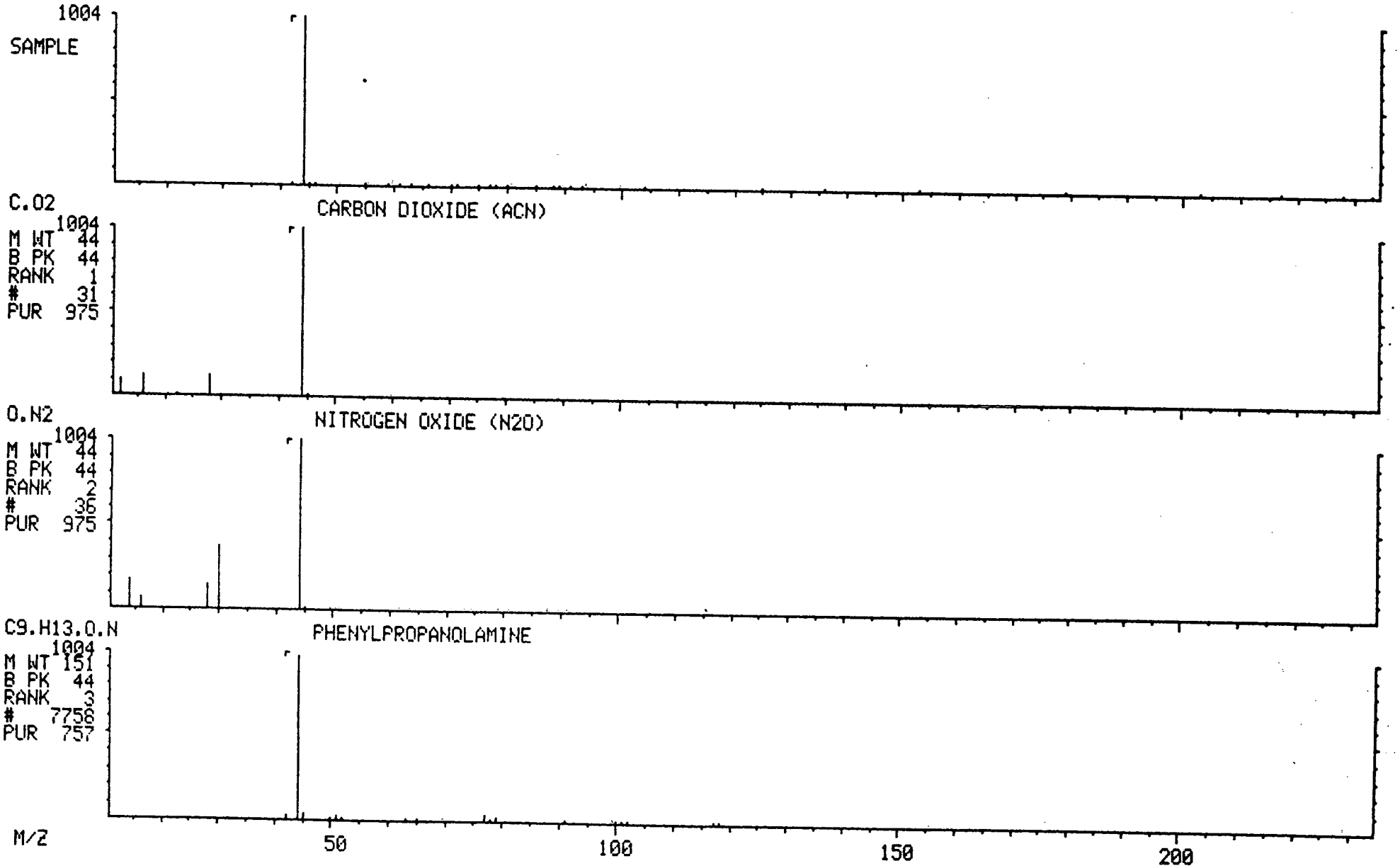
BASE M/Z: 44/ 44
RIC: 395775./ 534527.



LIBRARY SEARCH
08/26/87 23:23:00 + 0:48
SAMPLE: 3MLS #BSA 08197991
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7418 # 16
CALI: PU7418 # 2

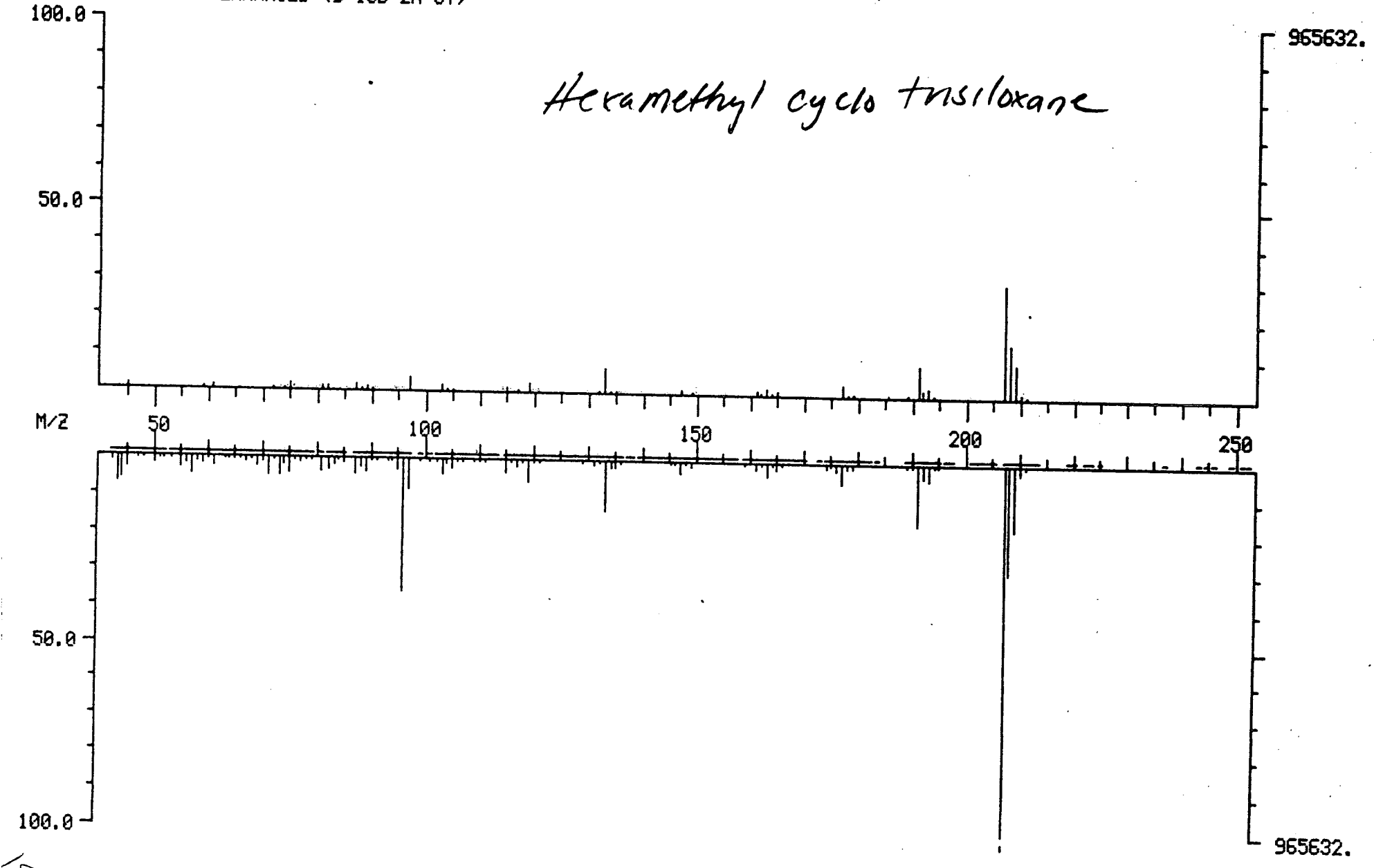
BASE M/Z: 44
RIC: 395775.



DUAL MASS SPECTRUM
08/26/87 23:23:00 + 32:12
SAMPLE: 3MLS #BSA 08197991
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7418 #644
CALI: PU7418 #2

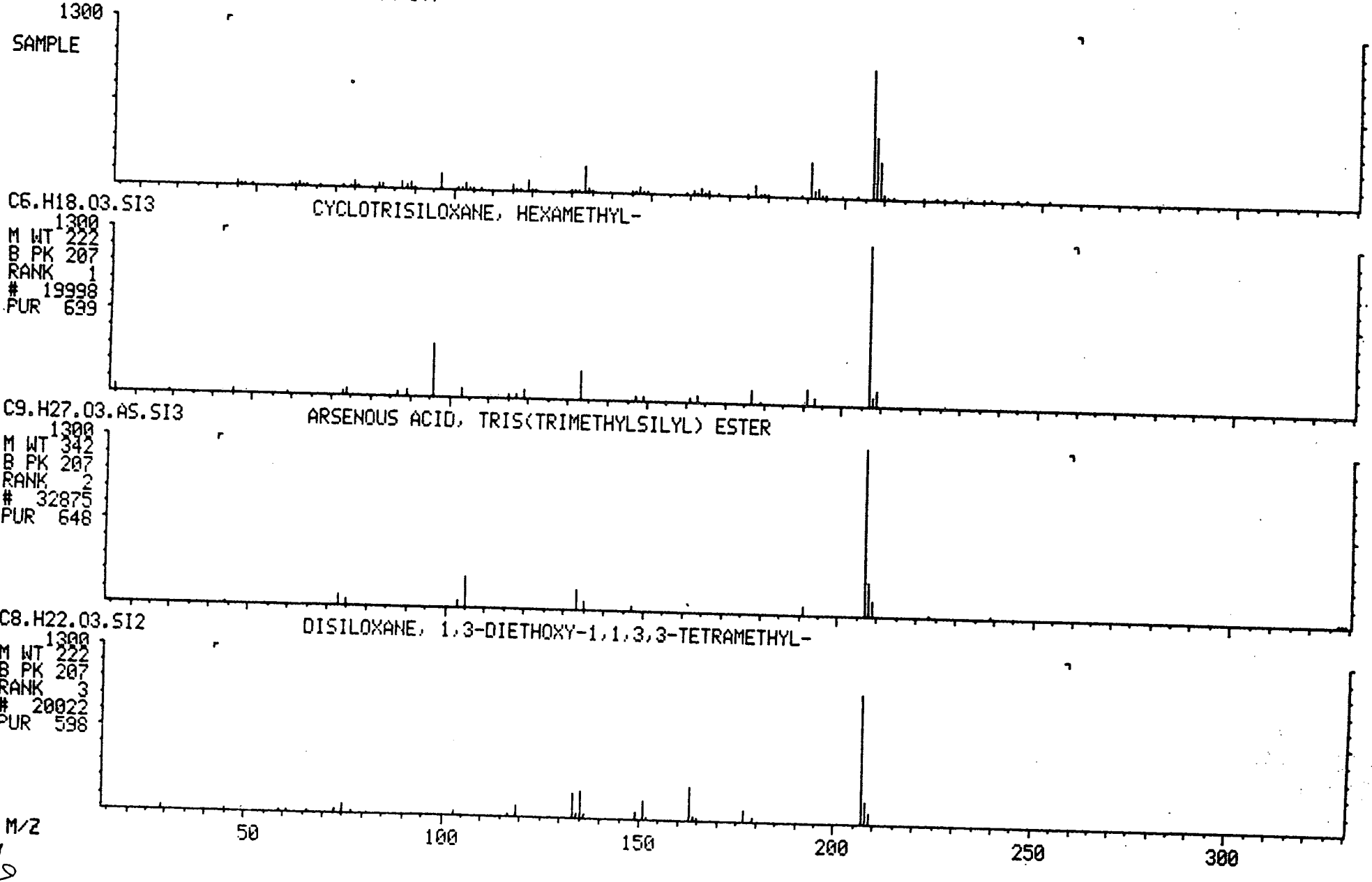
BASE M/Z: 207/ 207
RIC: 1099770./ 3719160.



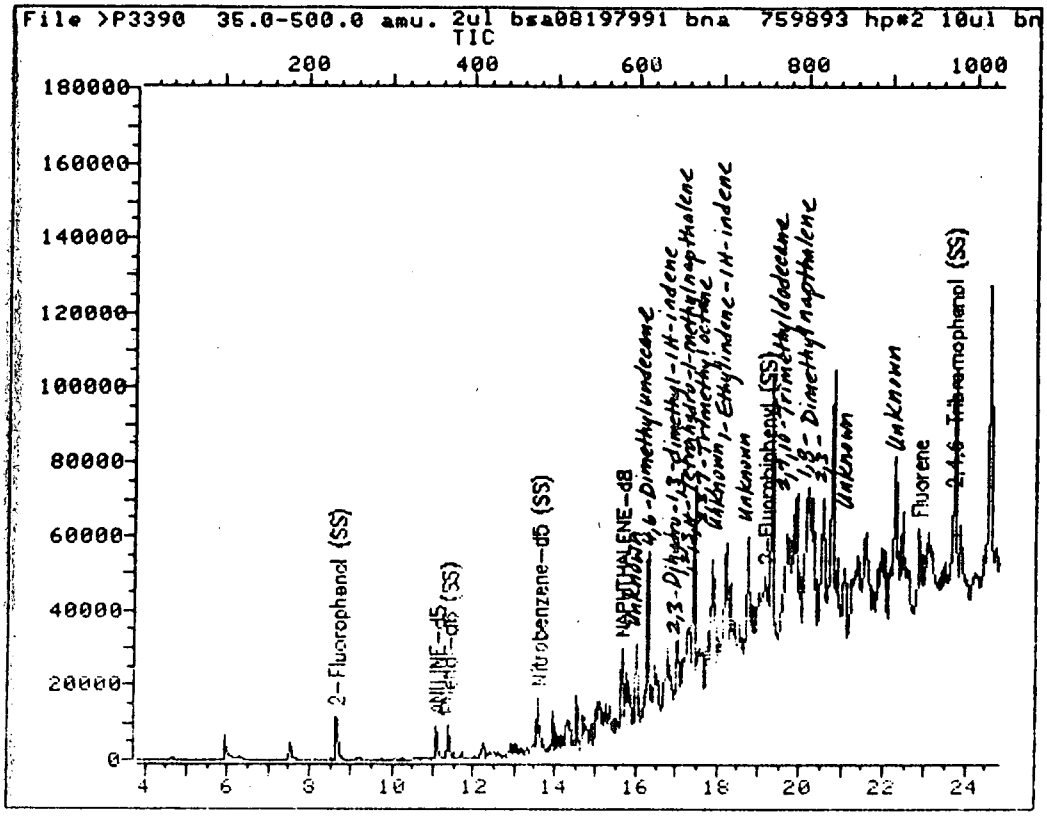
LIBRARY SEARCH
08/26/87 23:23:00 + 32:12
SAMPLE: 3MLS #BSA 08197991
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7418 # 644
CALI: PU7418 # 2

BASE M/Z: 207
RIC: 1095670.



TOTAL ION CHROMATOGRAM



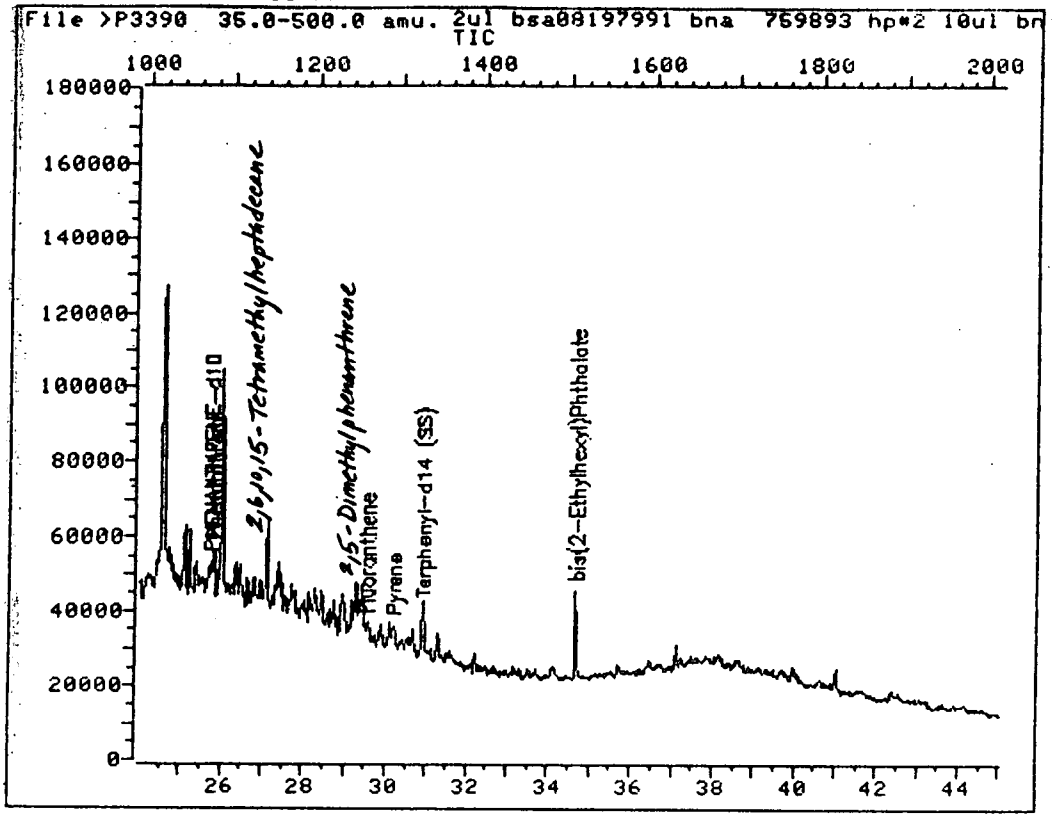
Data File: >P3390::B2 Quant Output File: ^P3390::QT
Name: 2ul bsa08197991 bna
Misc: 759893 hp#2 10ul bn488=>1ml sw1 BTL#60

Id File: ID_625::MS
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870909 20:53
Injected at: 870909 20:06

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >P3390::B2 Quant Output File: ^P3390::QT
Name: 2ul bsa08197991 bna
Misc: 759893 hp#2 10ul bn488=>1ml sw1 BTL#60

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870909 20:53
Injected at: 870909 20:06

TIC page 2 of 2

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 870909 20:53
Output File: ^P3390::QT Injected at: 870909 20:06
Data File: >P3390::B2 Dilution Factor: 1.00000
Name: 2ul bsa08197991 bna
Misc: 759893 hp#2 10ul bn488=>1ml sw1 BTL#60

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.07	357	9406	42.85	ug/mL	84
3)	2-Fluorophenol (SS)	8.65	238	10014	66.90	ug/mL	52
6)	Phenol-d6 (SS)	11.36	371	9770	47.01	ug/mL	83
14)	*NAPHTHALENE-d8	15.64	581	23343	41.04	ug/mL	64
15)	Nitrobenzene-d5 (SS)	13.58	480	13741	42.01	ug/mL	72
29)	2-Fluorobiphenyl (SS)	19.18	754	16541	48.69	ug/mL	97
39)	Fluorene	22.85	933	6101	14.62	ug/mL	84
40)	2,4,6-Tribromophenol (SS)	23.69	974	7869	44.19	ug/mL	78
41)	*PHENANTHRENE-d10	25.76	1075	14663	41.02	ug/mL	73
47)	Phenanthrene	25.82	1078	13692	31.21	ug/mL	50
50)	Fluoranthene	29.54	1259	1725	4.26	ug/mL	74
51)	Terphenyl-d14 (SS)	30.91	1326	20910	79.75	ug/mL	39
53)	Pyrene	30.19	1291	3587	8.75	ug/mL	59
57)	bis(2-Ethylhexyl)Phthalate	34.67	1509	11716	34.68	ug/mL	82

* Compound is ISTD

MS data file header from : >P3390

Sample: 2ul bsa08197991 bna Operator: GLENN MS 9/09/87 20:06
Misc : 759893 hp#2 10ul bn488=>1ml sw1 BTL#60
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures : 30. 300. 0. 0. 0.
Chromatographic times, min. : 4.0 7.3 0.0 0.0 0.0
Chromatographic rate, deg/min: 8.0 0.0 0.0 .5 0.0

>P3390 2ul bsa08197991 bna 759893 hp#2 10ul bn488=>1ml sw1
35.0 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 2776. Max Peaks: 20 Bunching: 1
Dnslope: 0.00 Results File IP3390 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	16.01	595	599	605	21528	218779	101132	38.43	3.757
2	16.31	611	614	616	42081	223039	134355	51.05	4.991
3	17.03	645	649	653	15732	246181	85972	32.67	3.193
4	17.29	658	662	665	16186	277512	103063	39.16	3.828
5	17.44	665	669	671	52430	344183	183239	69.62	6.806
6	17.76	681	685	686	15207	171152	54395	20.67	2.021
7	17.89	686	691	696	27850	474164	162447	61.72	6.034
8	18.21	702	707	708	27786	344231	118386	44.98	4.397
9	18.75	730	733	736	28381	339522	106622	40.51	3.961
10	19.34	759	762	764	67014	413360	192308	73.07	7.143
11	19.91	787	790	793	28194	433393	116894	44.41	4.342
12	20.18	796	803	805	36234	655611	248040	94.24	9.214
13	20.80	827	833	836	63903	731356	262390	99.69	9.747
14	20.92	836	839	843	15525	388205	58617	22.27	2.177
15	22.27	902	905	907	33582	398037	100784	38.29	3.744
16	24.61	1014	1019	1021	71167	747298	263193	100.00	9.776
17	25.12	1042	1044	1047	18472	329627	57086	21.69	2.120
18	26.05	1085	1089	1091	57829	541075	194168	73.77	7.212
19	27.13	1140	1142	1145	25164	325845	78869	29.97	2.930
20	28.96	1227	1231	1237	11261	479841	70170	26.66	2.606

Sum of corrected areas: 2692130.

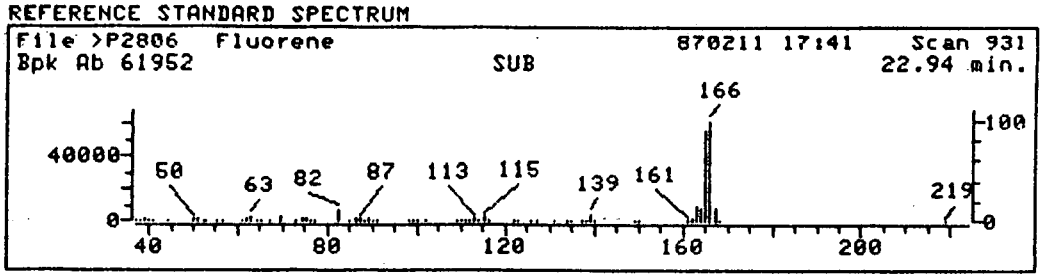
Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	42.8	27761.	11.07	3.82 - 13.39
2	41.0	74990.	15.64	13.35 - 20.70
3	41.0	194168.	25.76	20.70 - 45.03

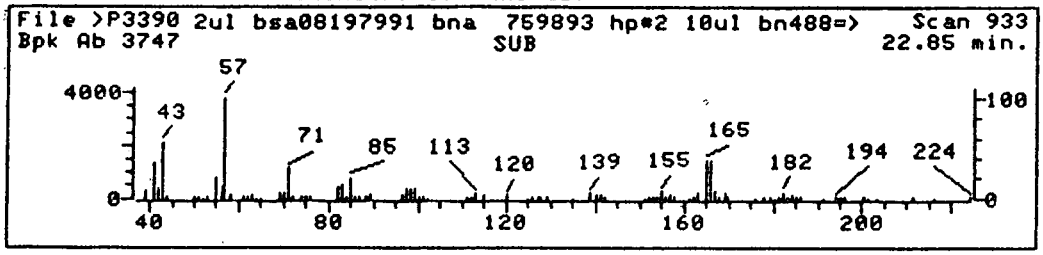
Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 0.00 Amount Used (AU) = 0.00

194

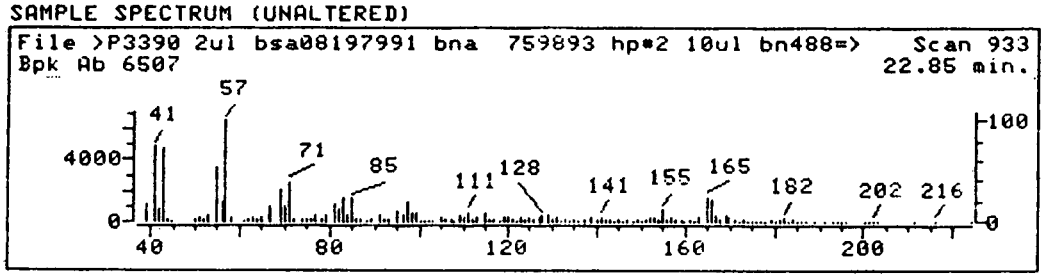
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



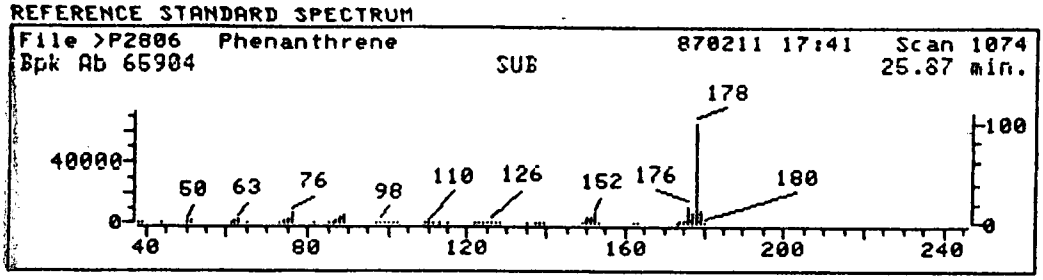
SAMPLE SPECTRUM (UNALTERED)



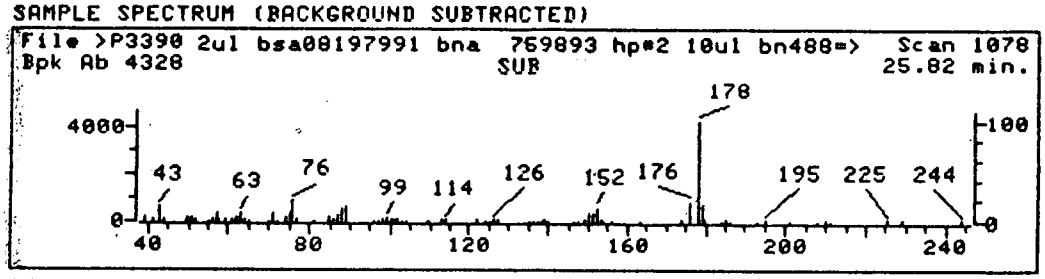
Data File: >P3390::B2 Quant Output File: ^P3390::QT
Name: 2ul bsa08197991 bna
Misc: 759893 hp#2 10ul bn488=>1ml sw1 BTL#60
Quant Time: 870909 20:53 Quant ID File: ID_625::ME
Injected at: 870909 20:06 Last Calibration: 870909 17:00

Compound No: 39
Compound Name: Fluorene
Scan Number: 933
Retention Time: 22.85 min.
Quant Ion: 166.0
Area: 6101
Concentration: 14.62 ug/mL
q-value: 84

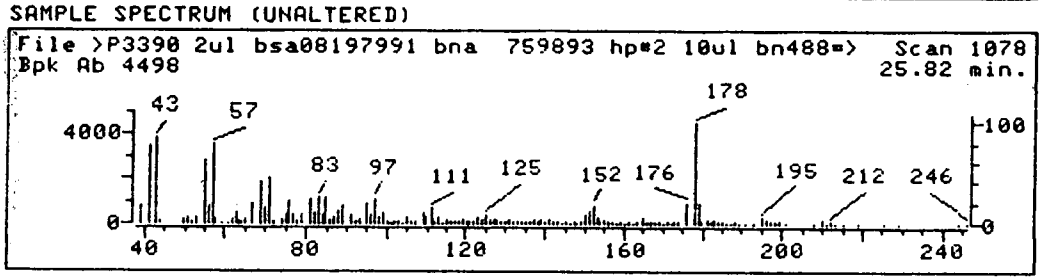
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



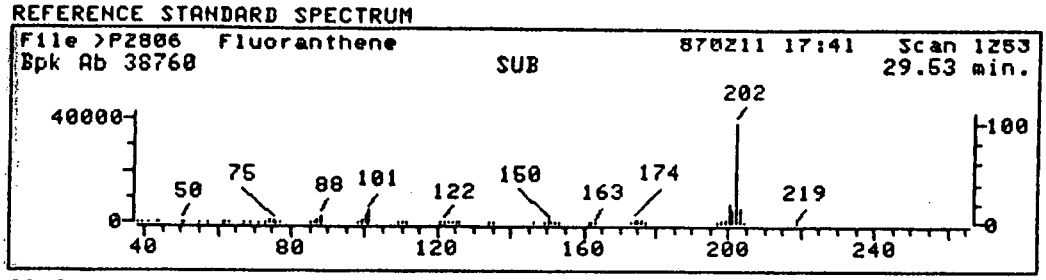
SAMPLE SPECTRUM (UNALTERED)



Data File: >P3390::B2 Quant Output File: ^P3390::QT
Name: 2ul bsa08197991 bna
Misc: 759893 hp#2 10ul bn488=>1ml sw1 BTL#60
Quant Time: 870909 20:53 Quant ID File: ID_625::ME
Injected at: 870909 20:06 Last Calibration: 870909 17:00

Compound No: 47
Compound Name: Phenanthrene
Scan Number: 1078
Retention Time: 25.82 min.
Quant Ion: 178.0
Area: 13692
Concentration: 31.21 ug/mL
q-value: 50

REFERENCE STANDARD SPECTRUM



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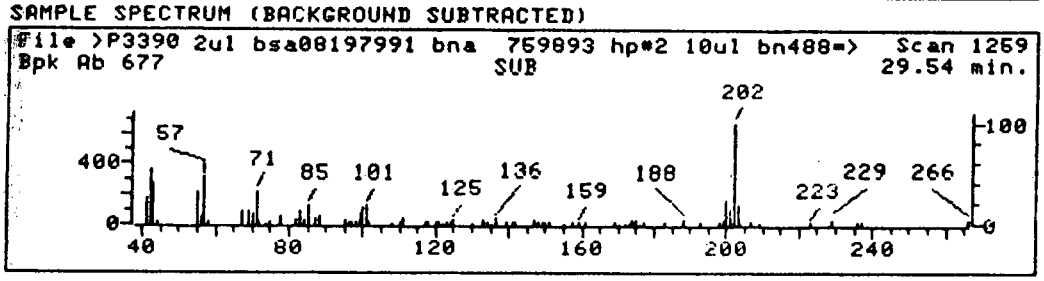

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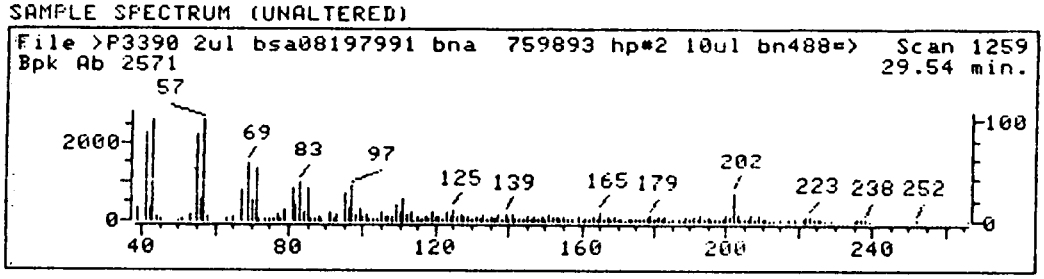
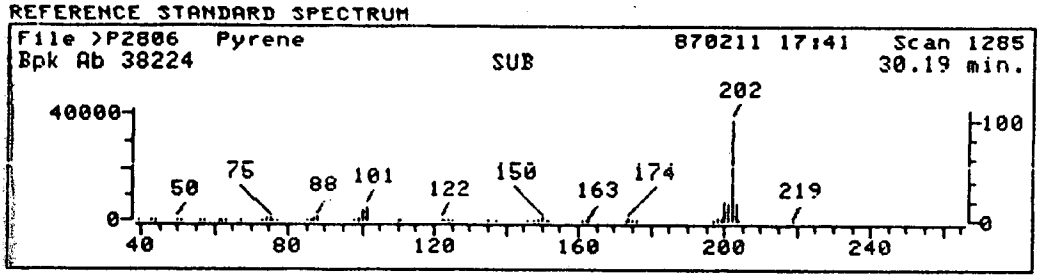


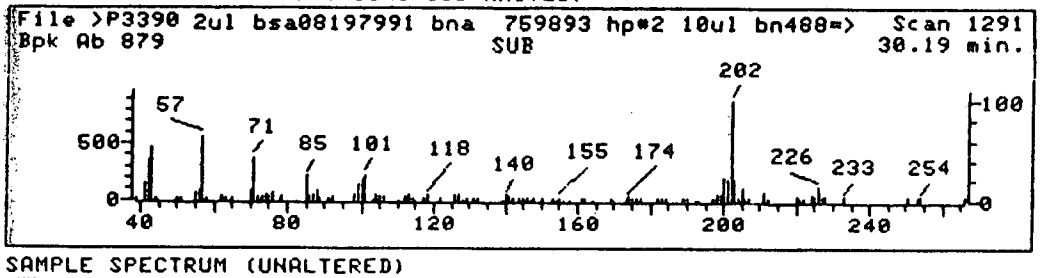
Data File: >P3390::B2 Quant Output File: ^P3390::QT
Name: 2ul bsa08197991 bna
Misc: 759893 hp#2 10ul bn488=>1ml sw1 BTL#60
Quant Time: 870909 20:53 Quant ID File: ID_625::ME
Injected at: 870909 20:06 Last Calibration: 870909 17:00

Compound No: 50
Compound Name: Fluoranthene
Scan Number: 1259
Retention Time: 29.54 min.
Quant Ion: 202.0
Area: 1725
Concentration: 4.26 ug/mL
q-value: 74

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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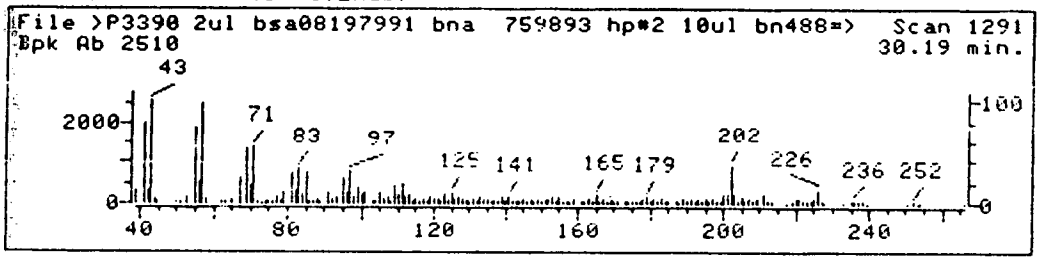

Data File: >P3390::B2 Quant Output File: ^P3390::QT
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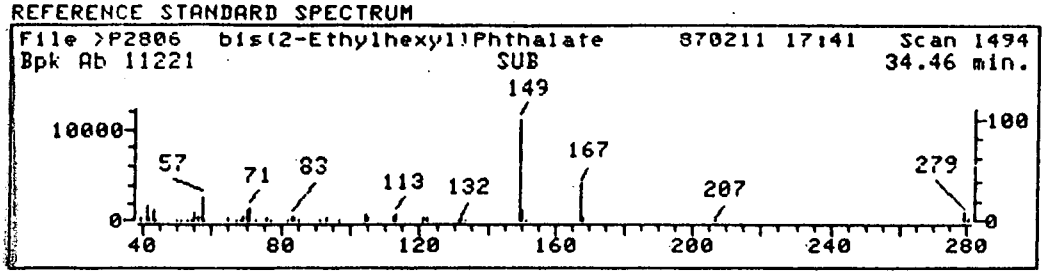
Misc: 759893 hp#2 10ul bn488=>1ml sw1 BTL#60
Quant Time: 870909 20:53 Quant ID File: ID_625::ME
Injected at: 870909 20:06 Last Calibration: 870909 17:00

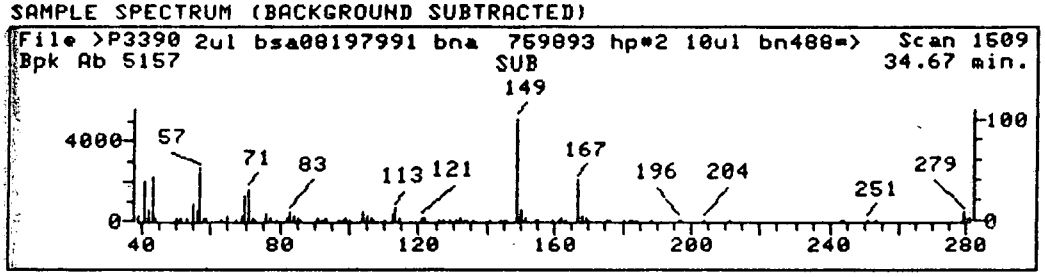
Compound No: 53
Compound Name: Pyrene
Scan Number: 1291
Retention Time: 30.19 min.
Quant Ion: 202.0
Area: 3587
Concentration: 8.75 ug/mL
q-value: 59

99

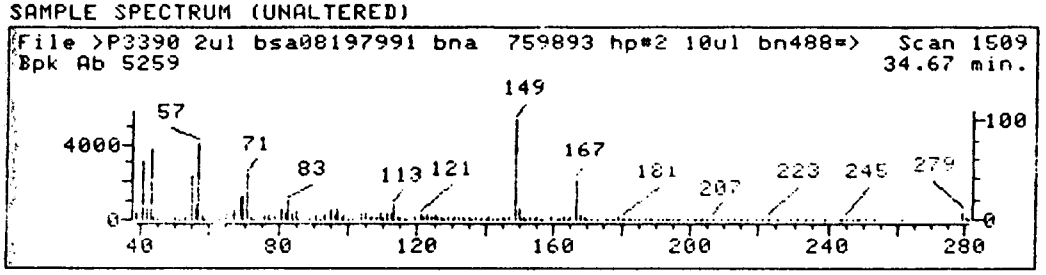
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

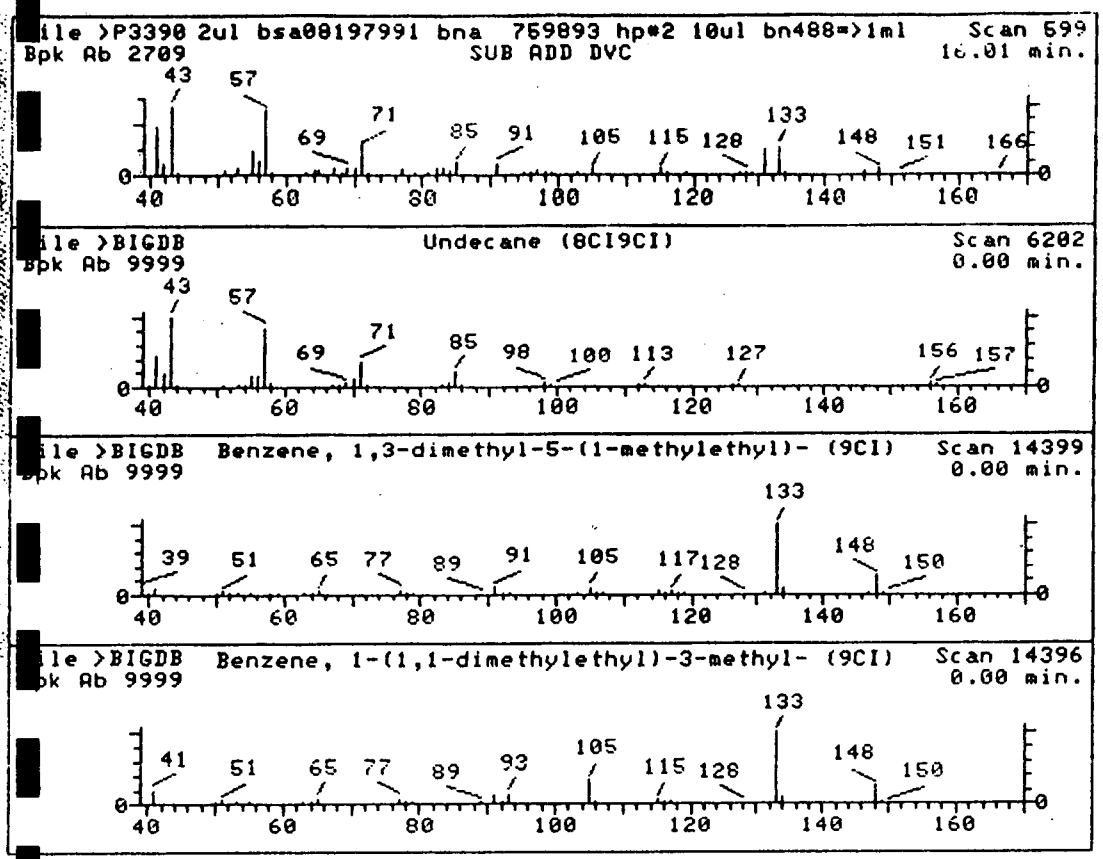


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3390::B2 Quant Output File: ^P3390::QT
Name: 2ul bsa08197991 bna
Misc: 759893 hp#2 10ul bn488=>1ml sw1 BTL#60
Quant Time: 870909 20:53 Quant ID File: ID_625::ME
Injected at: 870909 20:06 Last Calibration: 870909 17:00

Compound No: 57
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1509
Retention Time: 34.67 min.
Quant Ion: 149.0
Area: 11716
Concentration: 34.68 ug/mL
q-value: 82



Unknown #,1

rea = 101132.0 Tentative Concentration is 55.00

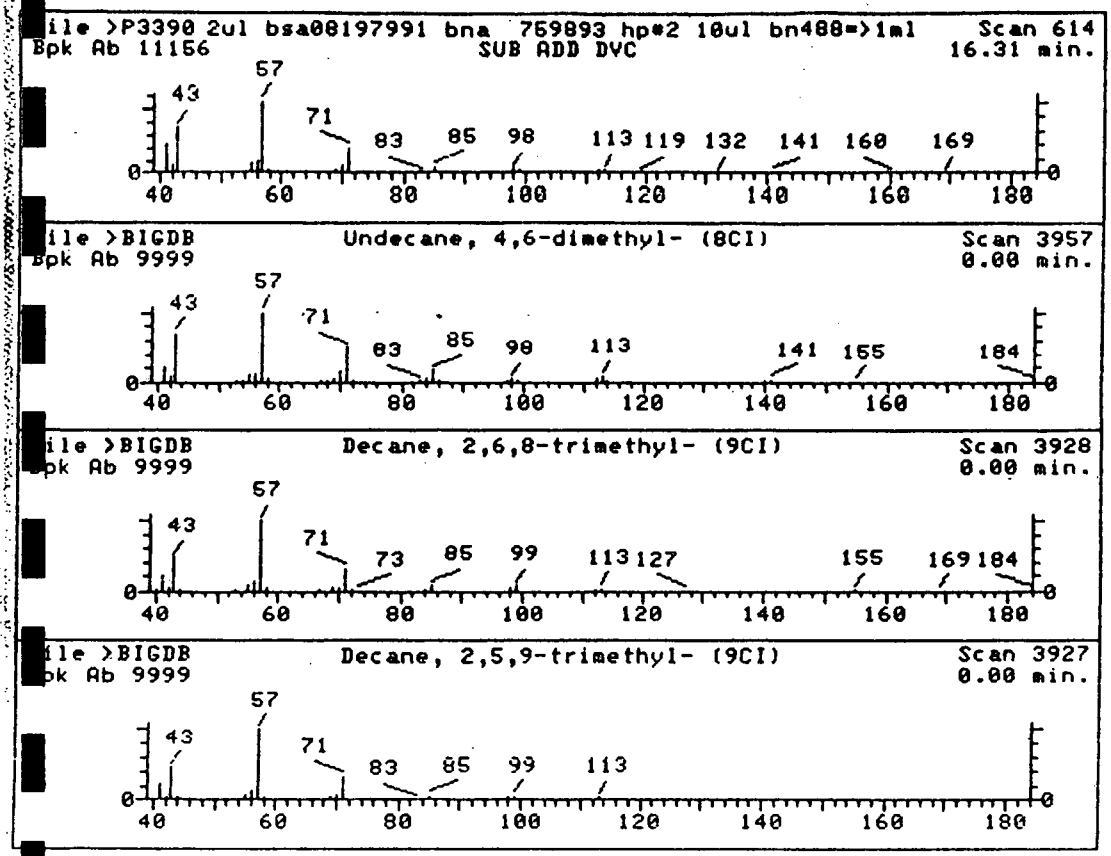
1.	Undecane (8CI9CI)	156 C11H24
2.	Benzene, 1,3-dimethyl-5-(1-methylethyl)- (9CI)	148 C11H16
3.	Benzene, 1-(1,1-dimethylethyl)-3-methyl- (9CI)	148 C11H16
4.	Nonane, 3-methyl-5-propyl- (8CI)	184 C13H28
5.	Benzene, (1,1-dimethylethyl)methyl- (9CI)	148 C11H16
6.	Benzene, 1-ethyl-4-(1-methylethyl)- (9CI)	148 C11H16
7.	Octane, 6-ethyl-2-methyl- (9CI)	156 C11H24

Sample file: >P3390 Spectrum #: 599

earch speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	13	1120214	6202	"BIGDB	77	20	1	0	91	65	3	38

201



Unknown #,2

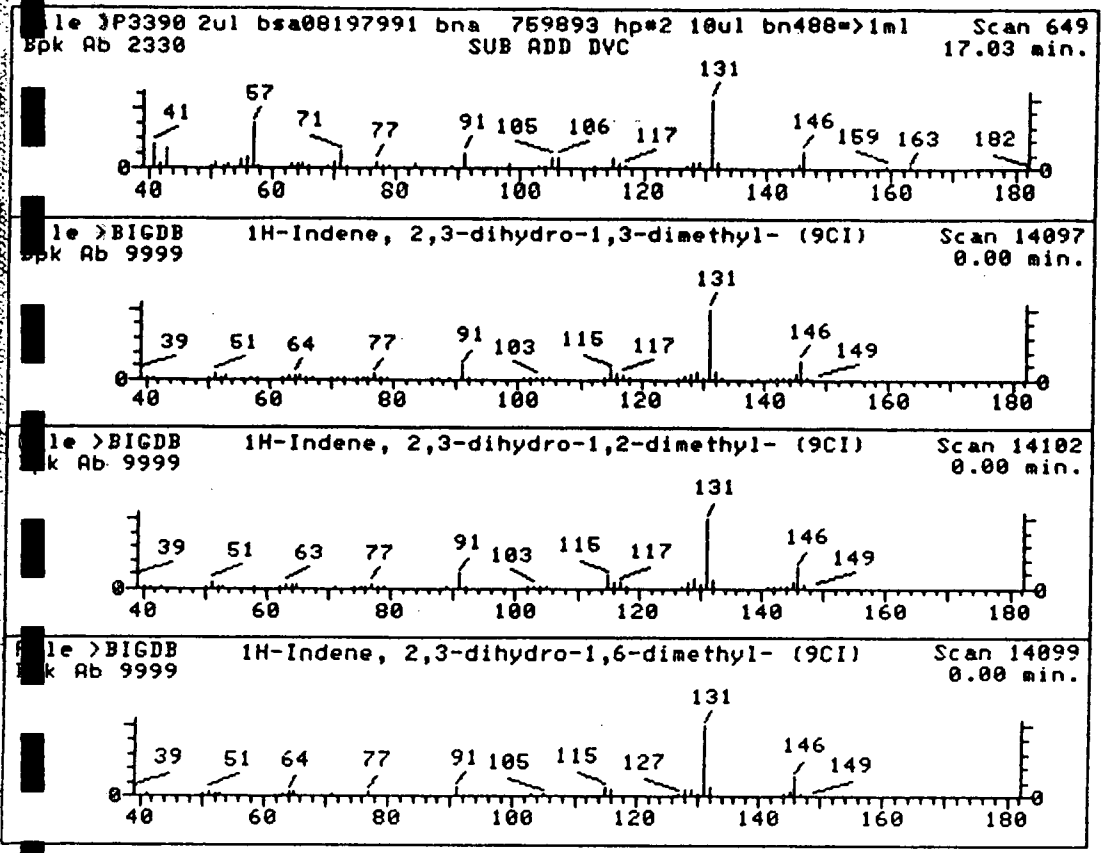
rea = 134355.0 Tentative Concentration is 74.00

1.	Undecane, 4,6-dimethyl- (8CI)	184 C13H28
2.	Decane, 2,6,8-trimethyl- (9CI)	184 C13H28
3.	Decane, 2,5,9-trimethyl- (9CI)	184 C13H28
4.	Nonane, 4-methyl-5-propyl- (9CI)	184 C13H28
5.	Decane, 6-ethyl-2-methyl- (9CI)	184 C13H28
6.	Heptane, 2,3,6-trimethyl- (8CI9CI)	142 C10H22
7.	Pentane, 2,2,3,3-tetramethyl- (8CI9CI)	128 C9H20

Sample file: >P3390 Spectrum #: 614

earch speed: 1 Tilting option: N No. of ion ranges searched: 53

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	87*	17312822	3957	"BIGDB	66	32	2	0	71	5	63	40
2.	78	62108263	3928	"BIGDB	51	41	2	0	100	5	55	17
3.	76	62108229	3927	"BIGDB	67	24	2	0	100	9	45	23
4.	70*	62185551	10880	"BIGDB	23	89	3	0	78	9	42	12
5.	70	62108218	6163	"BIGDB	58	41	2	0	84	9	42	17



Unknown #,3

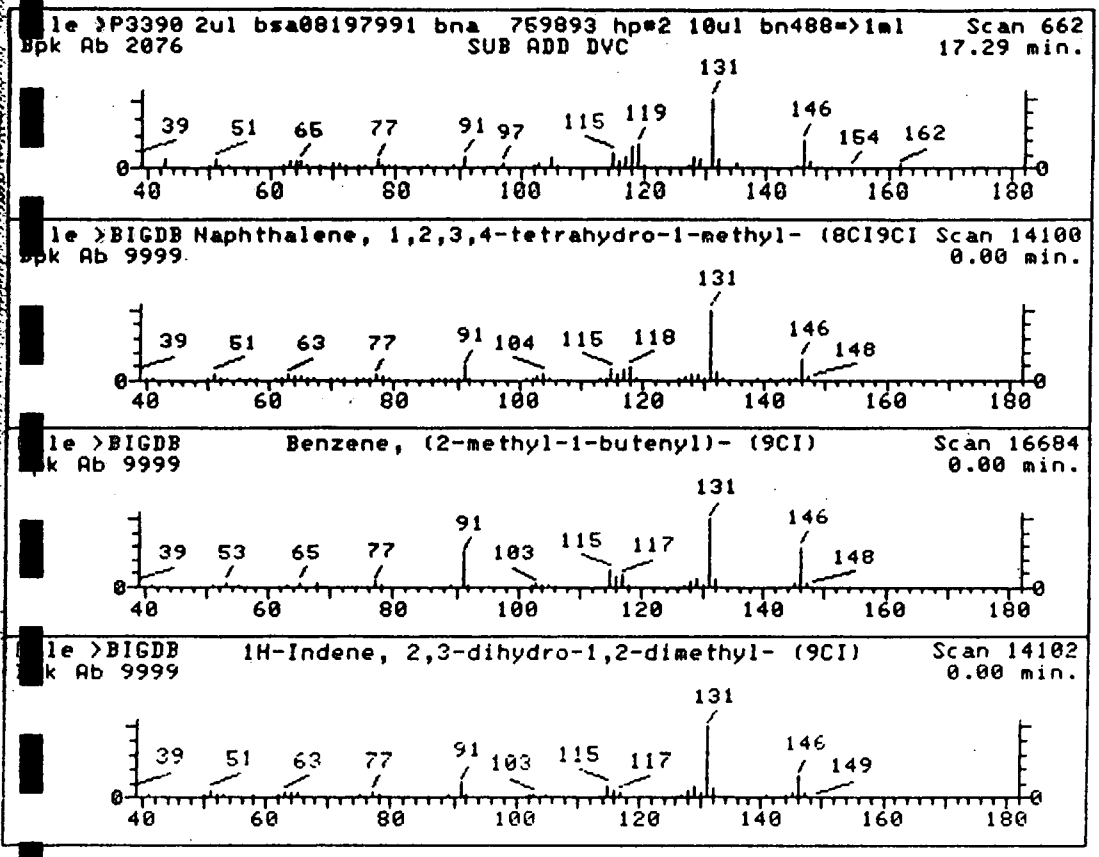
ea = 85972.00 Tentative Concentration is 47.00

1.	1H-Indene, 2,3-dihydro-1,3-dimethyl- (9CI)	146	C11H14
2.	1H-Indene, 2,3-dihydro-1,2-dimethyl- (9CI)	146	C11H14
3.	1H-Indene, 2,3-dihydro-1,6-dimethyl- (9CI)	146	C11H14
4.	Naphthalene, 1,2,3,4-tetrahydro-1-methyl- (8CI9CI)	146	C11H14
5.	1H-Indene, 2,3-dihydro-4,7-dimethyl- (9CI)	146	C11H14
6.	1H-Indene, 2,3-dihydro-1,1-dimethyl- (9CI)	146	C11H14
7.	1H-Indene, 2,3-dihydro-4,6-dimethyl- (9CI)	146	C11H14

Sample file: >P3390 Spectrum #: 649

arch speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	83*	4175535	14097	"BIGDB	77	24	2	0	92	6	54	59
2.	83*	17057828	14102	"BIGDB	77	27	2	0	73	6	54	59
.	81*	17059482	14099	"BIGDB	68	31	2	0	99	6	53	49
.	81*	1559815	14100	"BIGDB	69	35	2	0	88	6	53	49
5.	79*	6682719	14101	"BIGDB	57	48	2	0	75	6	48	34
.	75*	4912929	14098	"BIGDB	63	29	1	0	97	17	35	60
.	71*	1685821	14096	"BIGDB	55	45	2	0	77	12	38	32



Unknown #,4

rea = 103063.0 Tentative Concentration is 56.00

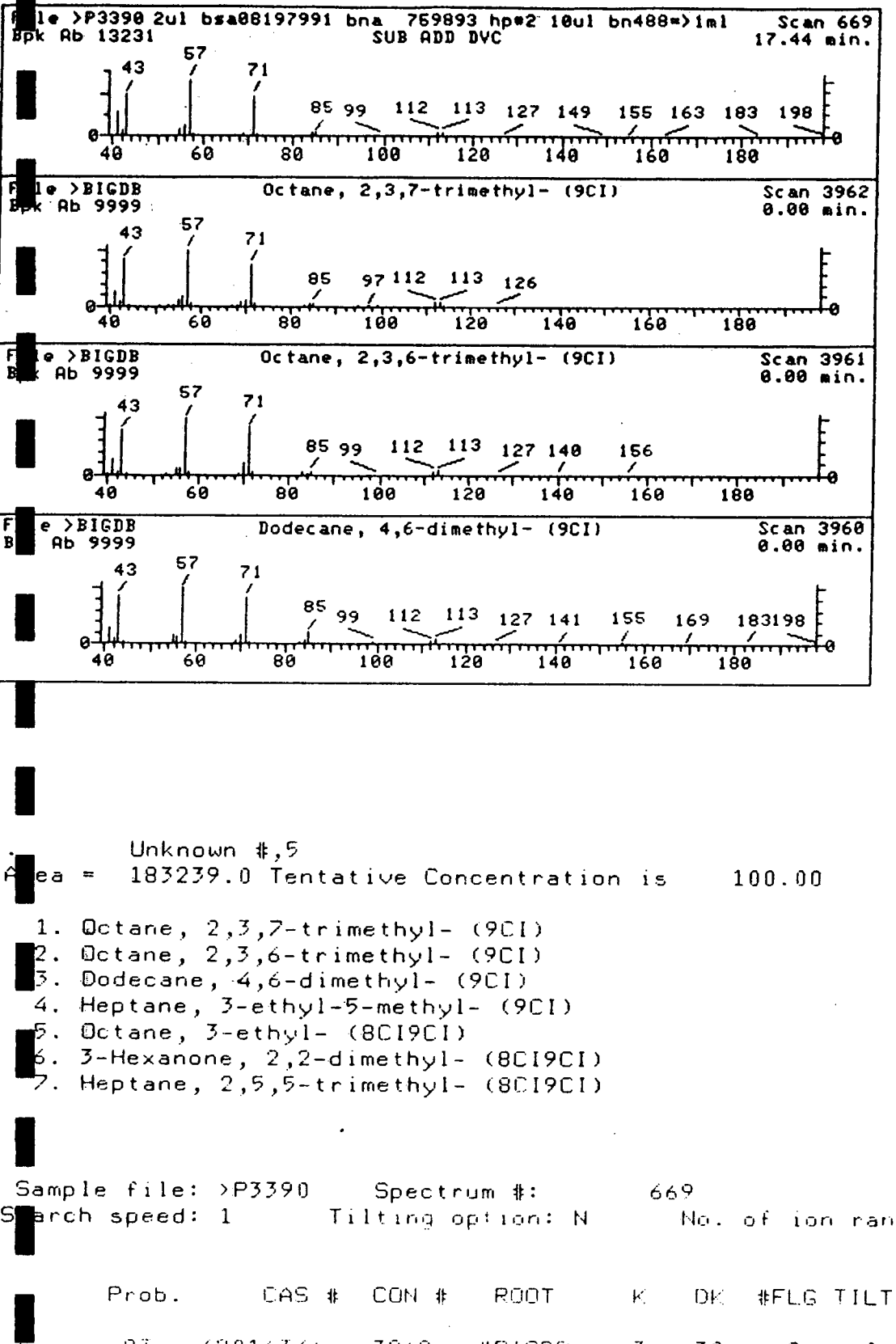
1.	Naphthalene, 1,2,3,4-tetrahydro-1-methyl- (8CI9CI)	146	C11H14
2.	Benzene, (2-methyl-1-butenyl)- (9CI)	146	C11H14
3.	1H-Indene, 2,3-dihydro-1,2-dimethyl- (9CI)	146	C11H14
4.	1H-Indene, 2,3-dihydro-4,7-dimethyl- (9CI)	146	C11H14
5.	Benzene, ethyl(1-methylethenyl)- (9CI)	146	C11H14
6.	Benzene, (1,1-dimethyl-2-propenyl)- (9CI)	146	C11H14
7.	1H-Indene, 2,3-dihydro-1,1-dimethyl- (9CI)	146	C11H14

Sample file: >P3390 Spectrum #: 662

earch speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	87*	1559815	14100	"BIGDB	84	20	1	0	100	15	55	80
2.	71*	56253646	16684	"BIGDB	68	38	1	0	69	26	29	66
3.	71*	17057828	14102	"BIGDB	62	42	1	0	92	28	29	60

20A

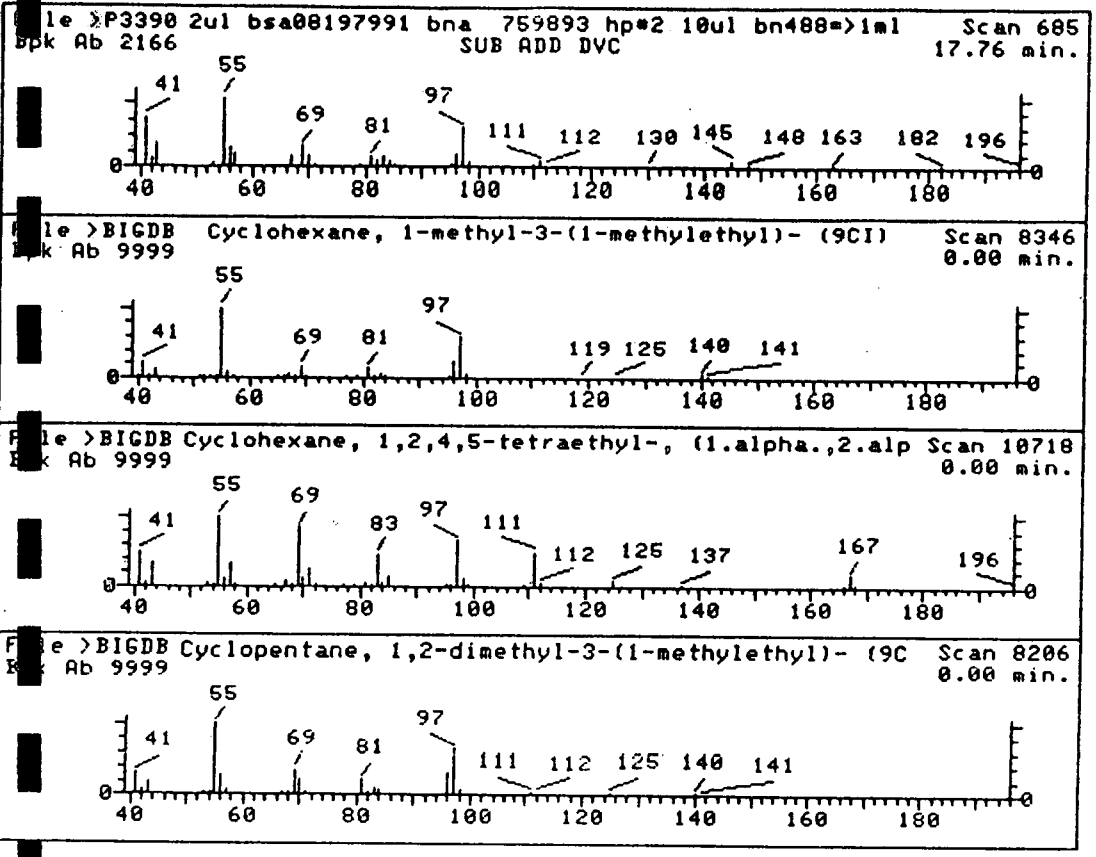


Unknown #,5
Area = 183239.0 Tentative Concentration is 100.00

1.	Octane, 2,3,7-trimethyl- (9CI)	156	C11H24
2.	Octane, 2,3,6-trimethyl- (9CI)	156	C11H24
3.	Dodecane, 4,6-dimethyl- (9CI)	198	C14H30
4.	Heptane, 3-ethyl-5-methyl- (9CI)	142	C10H22
5.	Octane, 3-ethyl- (8CI9CI)	142	C10H22
6.	3-Hexanone, 2,2-dimethyl- (8CI9CI)	128	C8H16O
7.	Heptane, 2,5,5-trimethyl- (8CI9CI)	142	C10H22

Sample file: >P3390 Spectrum #: 669
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	87	62016346	3962	"BIGDB	63	30	2	0	87	4	57	22
2.	76	62016335	3961	"BIGDB	56	36	1	0	77	10	45	23
3.	70*	61141728	3960	"BIGDB	45	65	3	0	84	9	42	13

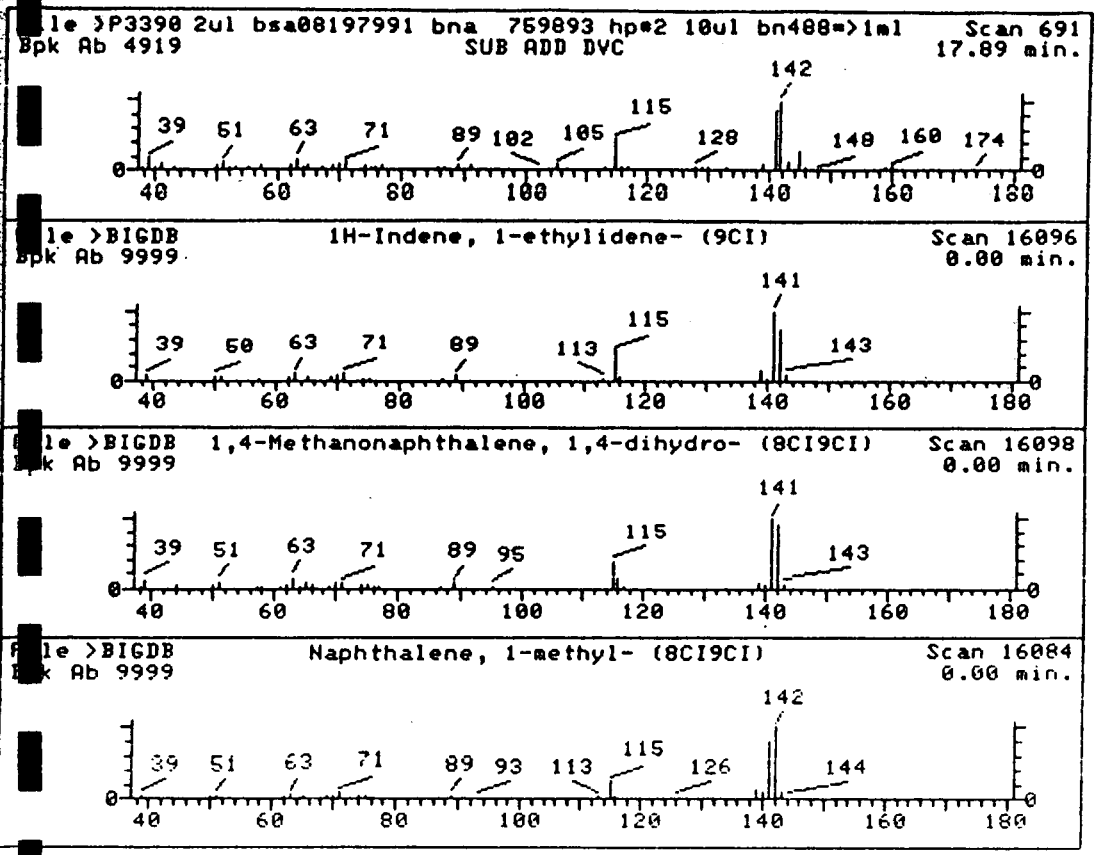


Unknown #,6
Area = 54395.00 Tentative Concentration is 30.00

1.	Cyclohexane, 1-methyl-3-(1-methylethyl)- (9CI)	140	C10H20
2.	Cyclohexane, 1,2,4,5-tetraethyl-, (1.alpha.,2.alpha. ,4.alpha.,5.alpha.)- (9CI)	196	C14H28
3.	Cyclopentane, 1,2-dimethyl-3-(1-methylethyl)- (9CI)	140	C10H20
4.	Cyclohexanone, 3-(3,3-dimethylbutyl)- (9CI)	182	C12H22O
5.	Cyclopropanemethanol, 2,2,3,3-tetramethyl- (8CI9CI)	128	C8H16O
6.	Cyclodecane, methyl- (8CI9CI)	154	C11H22
7.	Cyclopentane, 1-pentyl-2-propyl- (9CI)	182	C13H26

Sample file: >P3390 Spectrum #: 685
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	26	16580248	8346	"BIGDB	37	50	1	0	84	44	8	14

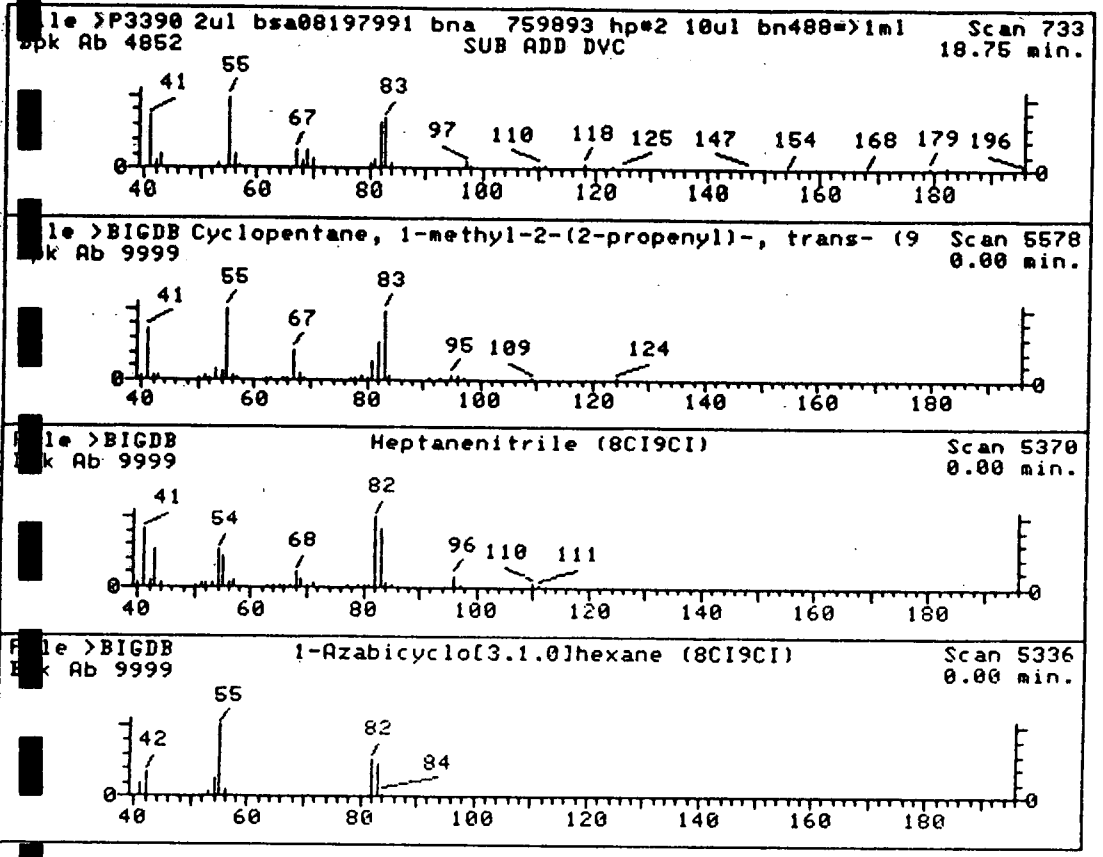


Unknown #,7
Area = 162447.0 Tentative Concentration is 89.00

1.	1H-Indene, 1-ethylidene- (9CI)	142	C11H10
2.	1,4-Methanonaphthalene, 1,4-dihydro- (8CI9CI)	142	C11H10
3.	Naphthalene, 1-methyl- (8CI9CI)	142	C11H10
4.	Naphthalene, 2-methyl- (8CI9CI)	142	C11H10
5.	Benzeneacetonitrile, 4-cyano- (9CI)	142	C9H6N2
6.	Phenol, 4-chloro-3-methyl- (9CI)	142	C7H7ClO
7.	Benzeneacetonitrile, 2-cyano- (9CI)	142	C9H6N2

Sample file: >P3390 Spectrum #: 691
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	76*	2471832	16096	"BIGDB	76	24	1	0	89	29	37	74
2.	74*	4453901	16098	"BIGDB	64	38	2	0	87	14	39	43

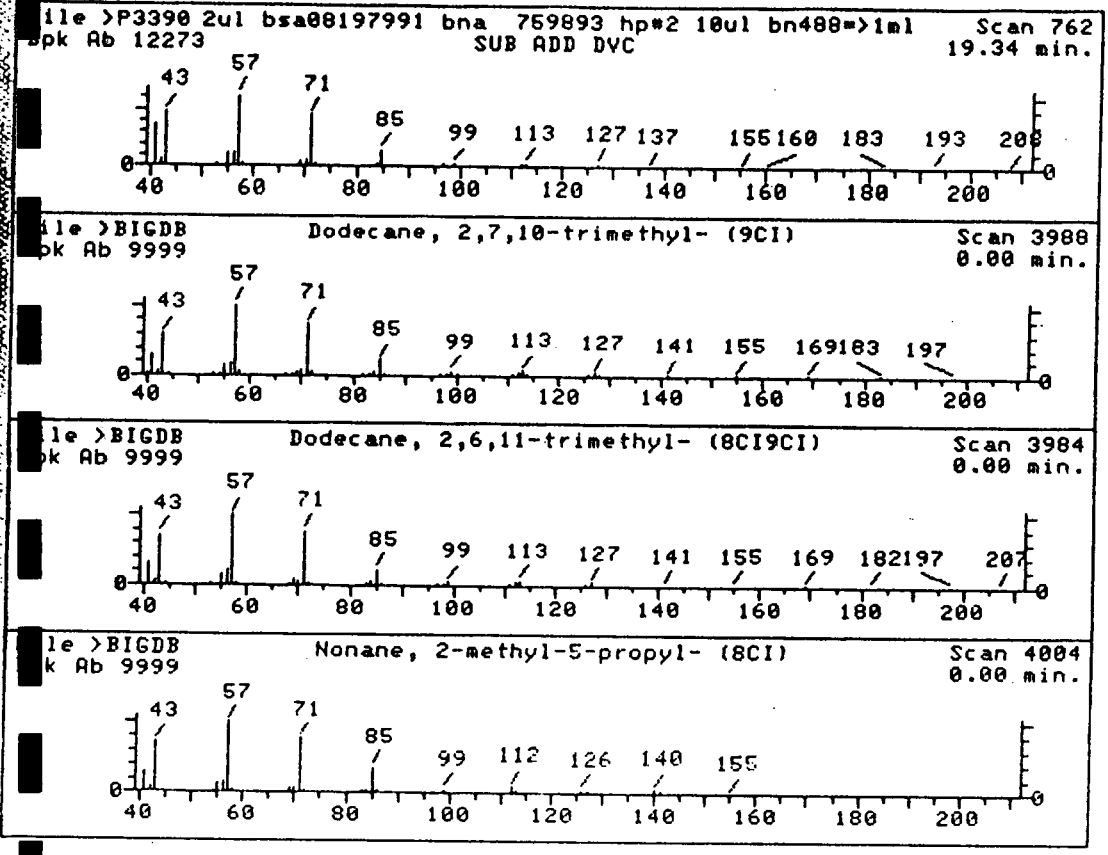


Unknown #,9
ea = 106622.0 Tentative Concentration is 58.00

1.	Cyclopentane, 1-methyl-2-(2-propenyl)-, trans- (9CI)	124 C9H16
2.	Heptanenitrile (8CI9CI)	111 C7H13N
3.	1-Azabicyclo[3.1.0]hexane (8CI9CI)	83 C5H9N
4.	Pyridine, 2,3,4,5-tetrahydro- (8CI9CI)	83 C5H9N
5.	2-Propenoic acid, cyclohexyl ester (9CI)	154 C9H14O2
6.	Cyclopentane, 1-ethyl-1-methyl- (8CI9CI)	112 C8H16
7.	Cyclopentane, 1-hexyl-3-methyl- (9CI)	168 C12H24

Sample file: >P3390 Spectrum #: 733
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	30*	50746537	5578	"BIGDB	36	50	2	0	48	44	8	18

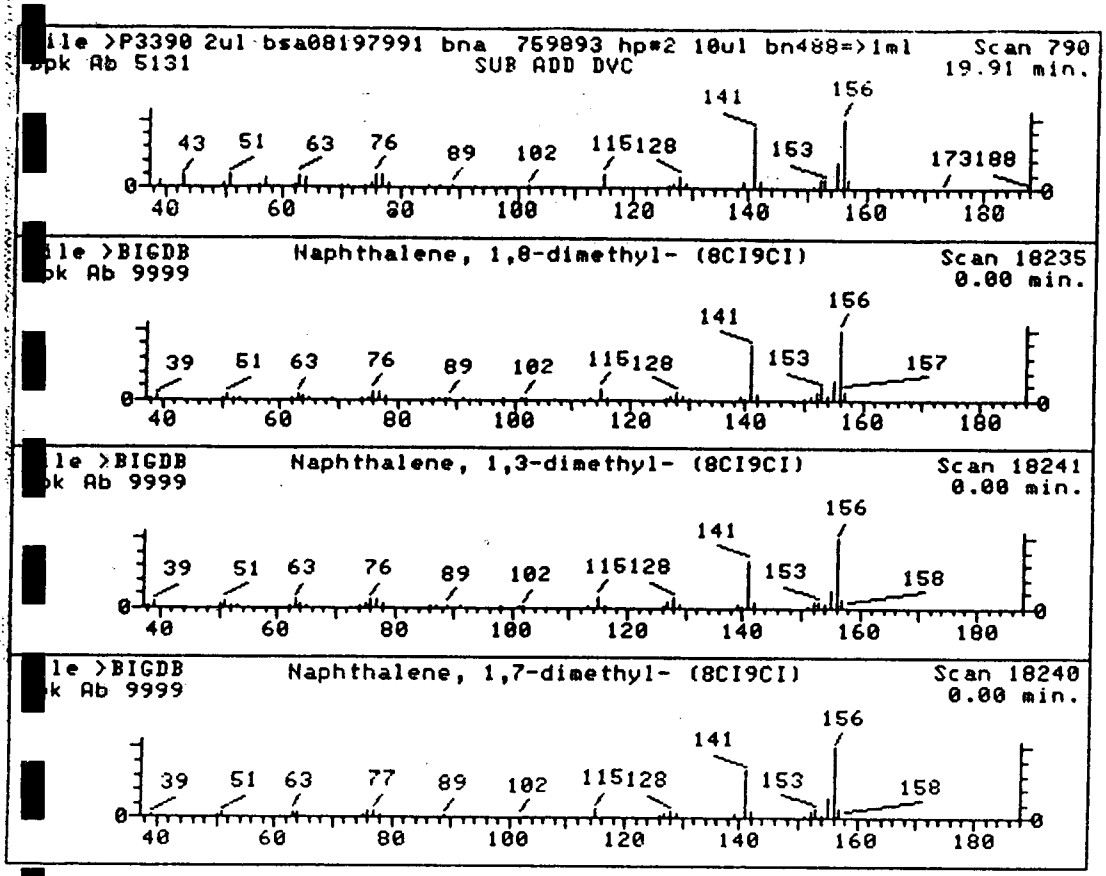


Unknown #,10
rea = 192308.0 Tentative Concentration is 110.00

1.	Dodecane, 2,7,10-trimethyl- (9CI)	212 C15H32
2.	Dodecane, 2,6,11-trimethyl- (8CI9CI)	212 C15H32
3.	Nonane, 2-methyl-5-propyl- (8CI)	184 C12H28
4.	2-Undecene, 4,5-dimethyl-, [R*,S*-(Z)]- (9CI)	182 C13H26
5.	Nonane, 3,7-dimethyl- (8CI,9CI)	156 C11H24
6.	Heptane, 3-ethyl-5-methyl- (9CI)	142 C10H22
7.	3-Hexanone, 2,2-dimethyl- (8CI9CI)	128 C8H16O

Sample file: P3390 Spectrum #: 762
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	79	74645980	3988	"BIGDB	82	27	1	0	70	9	48	38
2.	78	31295564	3984	"BIGDB	59	47	2	0	95	1	55	13
3.	70	31081171	4004	"BIGDB	58	45	2	0	67	10	47	14

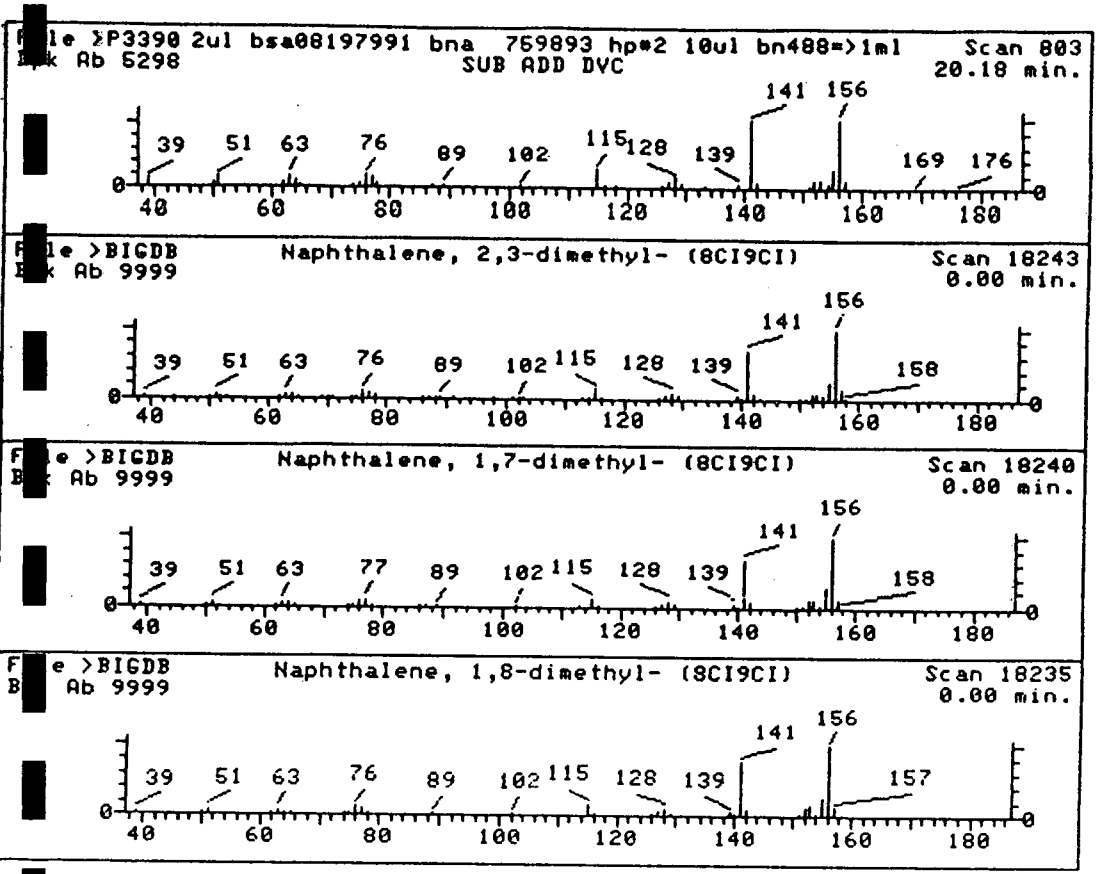


Unknown #,11
rea = 116894.0 Tentative Concentration is 64.00

1.	Naphthalene, 1,8-dimethyl- (8CI9CI)	156 C12H12
2.	Naphthalene, 1,3-dimethyl- (8CI9CI)	156 C12H12
3.	Naphthalene, 1,7-dimethyl- (8CI9CI)	156 C12H12
4.	Naphthalene, 1,4-dimethyl- (8CI9CI)	156 C12H12
5.	Naphthalene, 1,5-dimethyl- (8CI9CI)	156 C12H12
6.	Naphthalene, 2,3-dimethyl- (8CI9CI)	156 C12H12
7.	Naphthalene, 2,7-dimethyl- (8CI9CI)	156 C12H12

Sample file: >P3390 Spectrum #: 790
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	93*	569415	18235	"BIGDB	88	22	1	0	97	3	68	86
2.	89*	575417	18241	"BIGDB	78	29	2	0	93	3	66	60
3.	86*	575371	18240	"BIGDB	74	34	1	0	100	9	59	72
4.	84*	571584	18237	"BIGDB	66	42	1	0	99	9	55	66
5.	81*	571619	18238	"BIGDB	78	31	1	0	95	18	45	76
6.	76*	581408	18243	"BIGDB	77	29	2	0	100	11	40	59
7.	73*	582161	18247	"BIGDB	69	39	1	0	95	22	32	67

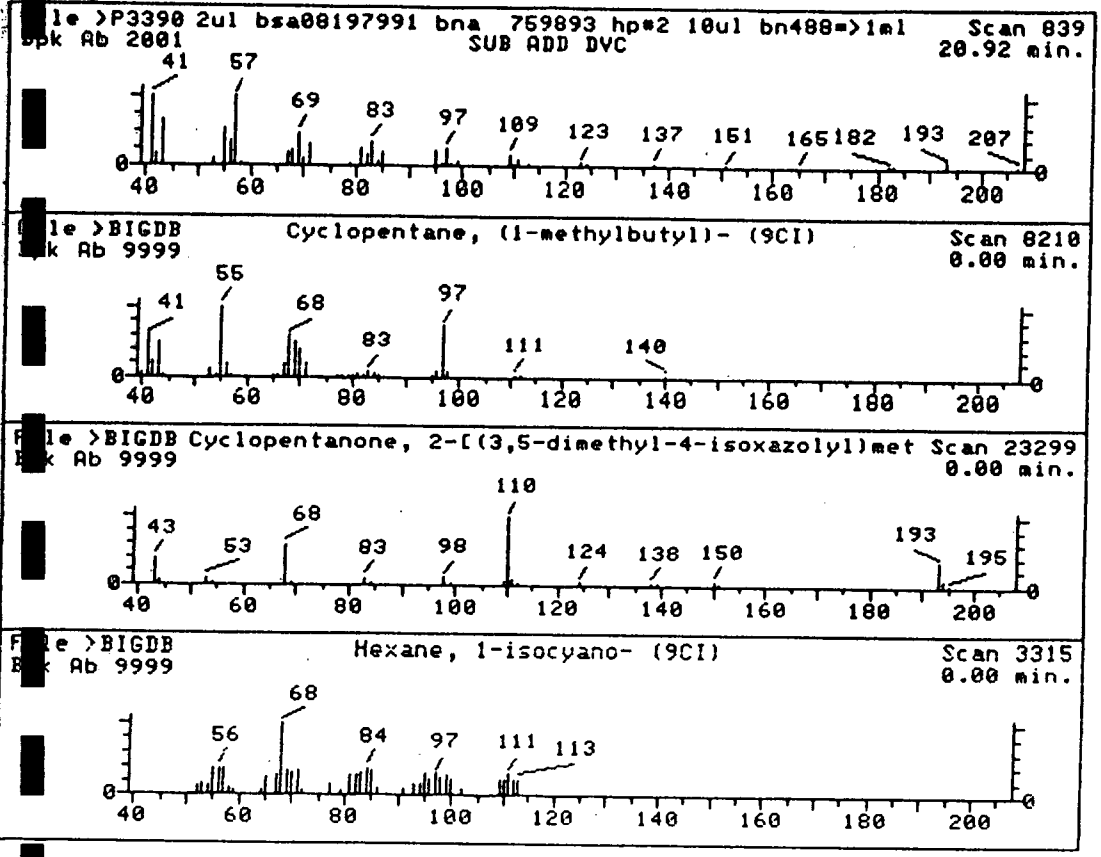


Unknown #,12
Area = 248040.0 Tentative Concentration is 140.00

1.	Naphthalene, 2,3-dimethyl- (8CI9CI)	156 C12H12
2.	Naphthalene, 1,7-dimethyl- (8CI9CI)	156 C12H12
3.	Naphthalene, 1,8-dimethyl- (8CI9CI)	156 C12H12
4.	Naphthalene, 1,2-dimethyl- (8CI9CI)	156 C12H12
5.	Naphthalene, 1,3-dimethyl- (8CI9CI)	156 C12H12
6.	Naphthalene, 1,4-dimethyl- (8CI9CI)	156 C12H12
7.	Naphthalene, 1,5-dimethyl- (8CI9CI)	156 C12H12

Sample file: >P3390 Spectrum #: 803
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	96*	581408	18243	"BIGDB	79	27	0	0	92	5	72	94
2.	95*	575371	18240	"BIGDB	86	22	0	0	98	5	72	95
3.	95*	569415	18235	"BIGDB	87	23	0	0	100	3	72	95
4.	95*	573988	18239	"BIGDB	77	36	0	0	99	5	72	93
5.	93*	575417	18241	"BIGDB	86	21	1	0	99	3	68	83
6.	93*	571584	18237	"BIGDB	67	41	0	0	100	5	68	80
7.	92*	571619	18238	"BIGDB	77	32	0	0	91	21	53	93

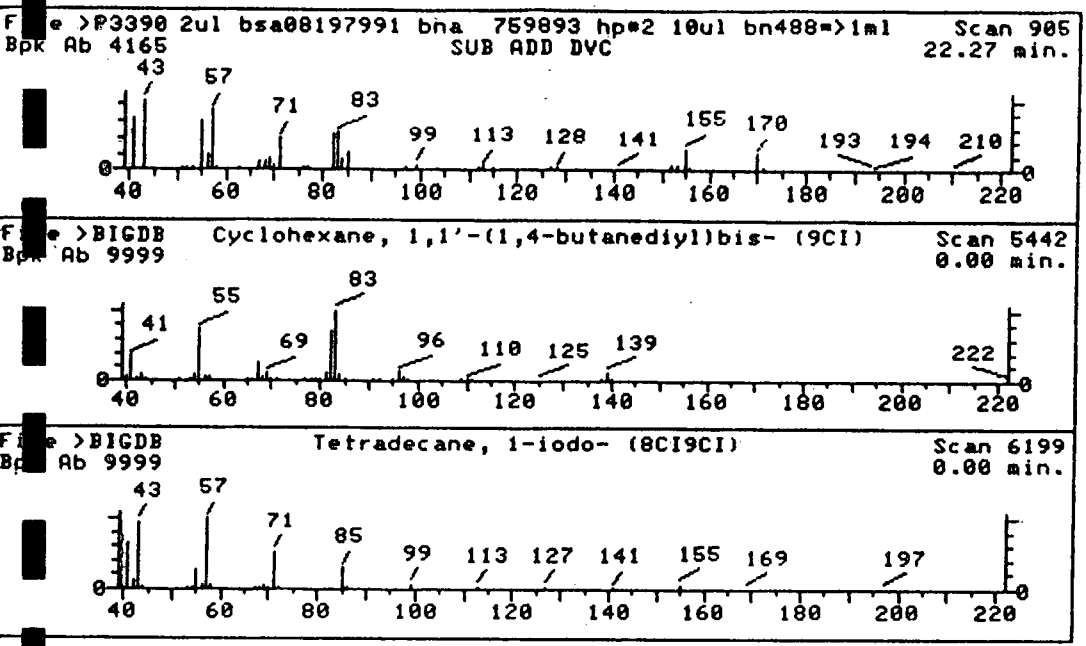


Unknown #,14
Area = 58617.00 Tentative Concentration is 12.00

1.	Cyclopentane, (1-methylbutyl)- (9CI)	140 C10H20
2.	Cyclopentanone, 2-[(3,5-dimethyl-4-isoxazolyl)methyl]- (8CI)	193 C11H15NO2
3.	Hexane, 1-isocyano- (9CI)	111 C7H13N

Sample file: >P3390 Spectrum #: 839
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	20*	4737433	8210	"BIGDB	28	65	0	0	29	55	5	19

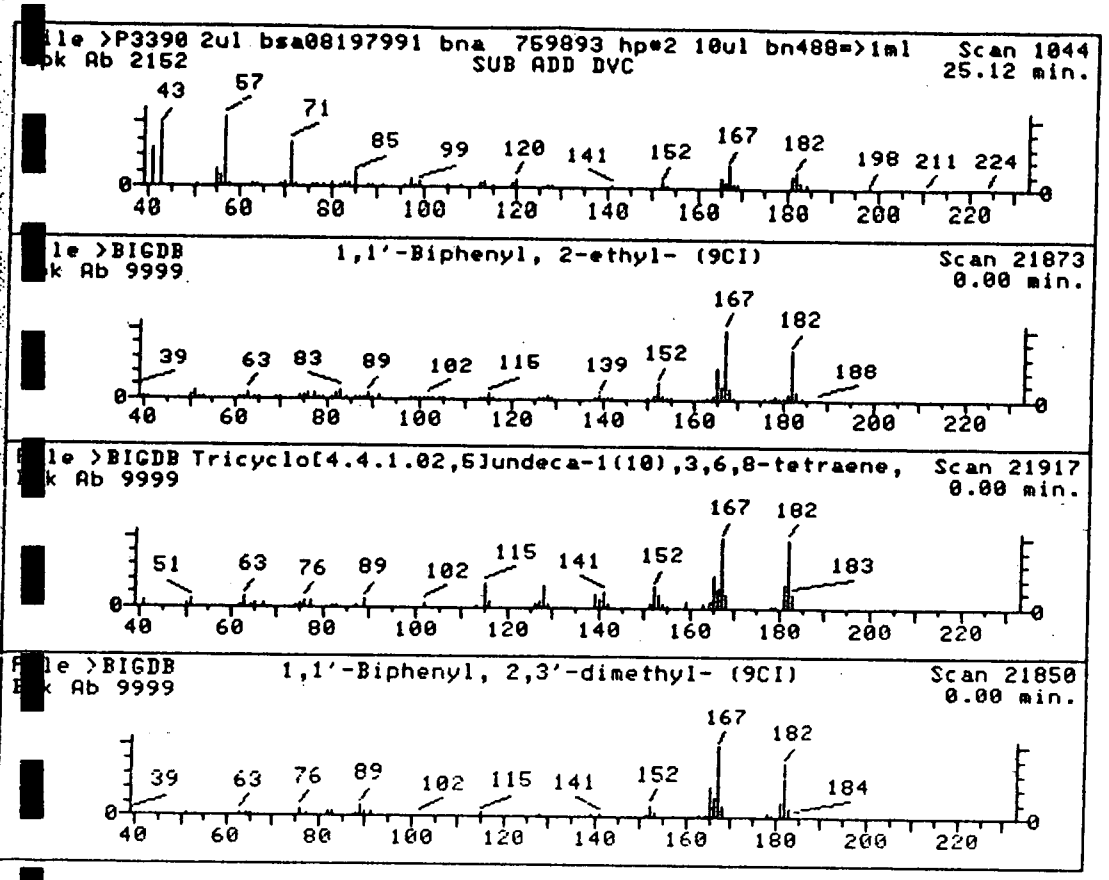


Unknown #,15
Area = 100784.0 Tentative Concentration is 21.00

1. Cyclohexane, 1,1'-(1,4-butanediyl)bis- (9CI) 222 C16H30
2. Tetradecane, 1-iodo- (8CI9CI) 324 C14H29I

Sample file: >P3390 Spectrum #: 905
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1	15*	6165442	5442	"BIGDB	28	92	3	0	56	58	3	13



Unknown #,17

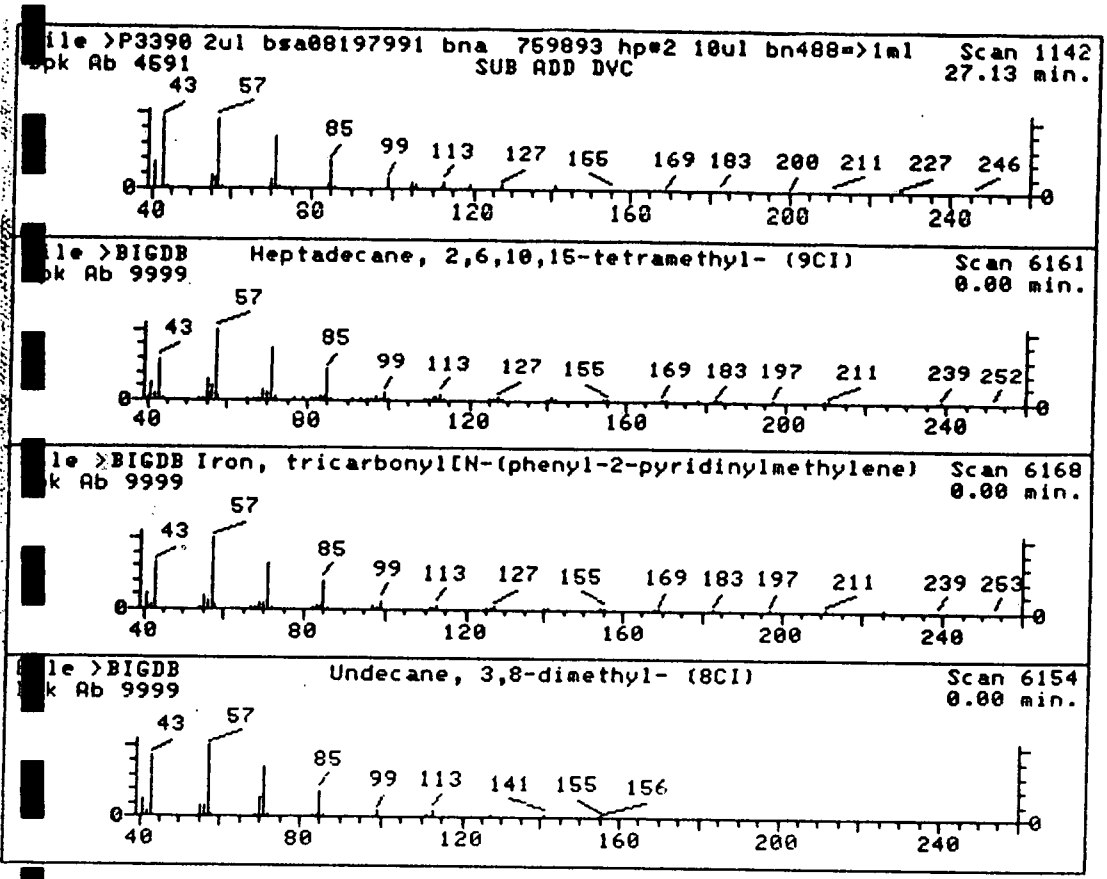
Area = 57086.00 Tentative Concentration is 12.00

1.	1,1'-Biphenyl, 2-ethyl- (9CI)	182 C14H14
2.	Tricyclo[4.4.1.02,5]undeca-1(10),3,6,8-tetraene, 11-(1-methylethylidene)- (9CI)	182 C14H14
3.	1,1'-Biphenyl, 2,3'-dimethyl- (9CI)	182 C14H14
4.	1,1'-Biphenyl, 2,2'-dimethyl- (9CI)	182 C14H14
5.	1,1'-Biphenyl, 2,4'-dimethyl- (9CI)	182 C14H14
6.	Benzene, 1-methyl-2-(phenylmethyl)- (9CI)	182 C14H14
7.	Benzene, 1-methyl-4-(phenylmethyl)- (9CI)	182 C14H14

Sample file: >P3390 Spectrum #: 1044

Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	59*	1812517	21873	"BIGDB	75	34	2	0	33	40	21	57



Unknown #,19

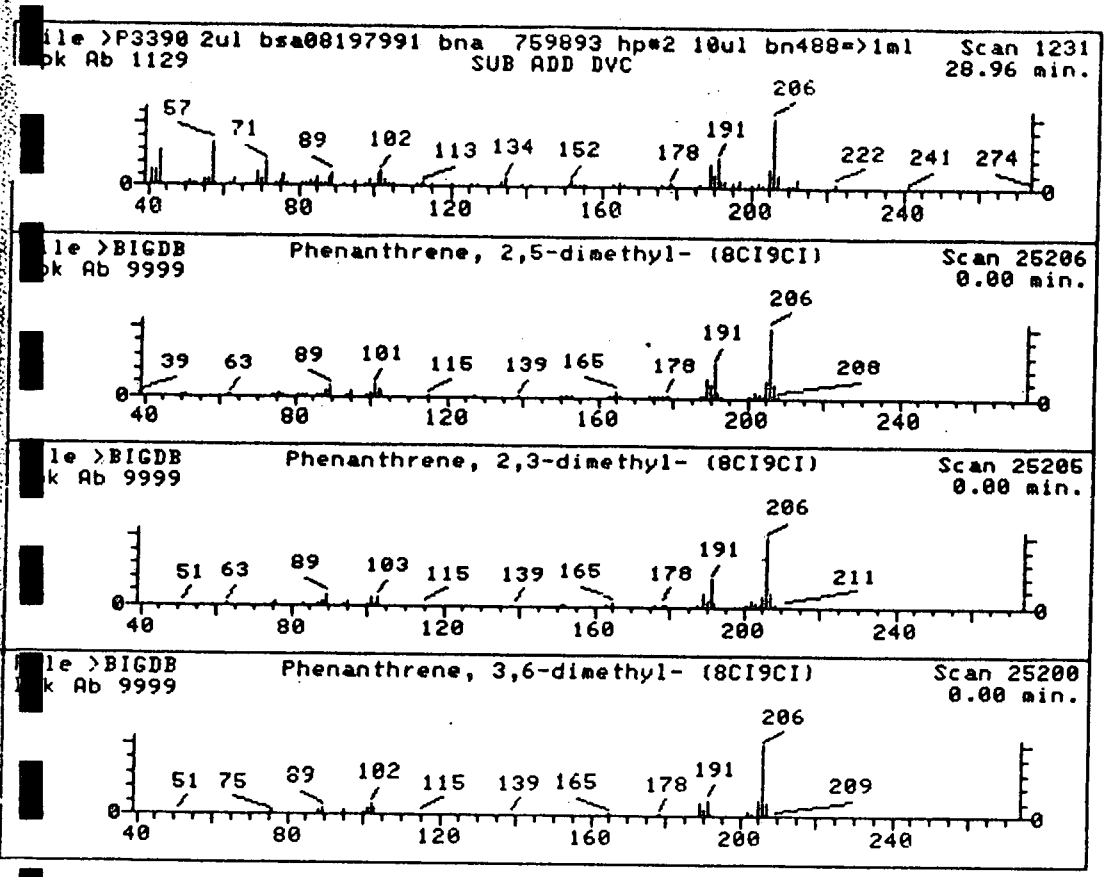
Area = 78869.00 Tentative Concentration is 17.00

1.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
2.	Iron, tricarbonyl[N-(phenyl-2-pyridinylmethylene)benzenamine-N,N']- (9CI)	398 C21H14FeN2O3
3.	Undecane, 3,8-dimethyl- (8CI)	184 C13H28
4.	Heneicosane, 11-(1-ethylpropyl)- (9CI)	366 C26H54
5.	Pentatriacontane (8CI9CI)	492 C35H72
6.	Dodecane, 1-iodo- (8CI9CI)	296 C12H25I
7.	Pentadecane (8CI9CI)	212 C15H32

Sample file: >P3390 Spectrum #: 1142

Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	83	54833486	6161	"BIGDB	86	47	2	0	84	4	57	24
2.	83	74764117	6168	"BIGDB	79	58	2	0	100	3	57	21
3.	79	17301303	6154	"BIGDB	84	24	2	0	97	6	48	31
4.	78	55282116	6162	"BIGDB	81	65	3	0	98	4	55	14
5.	78	630079	6147	"BIGDB	82	69	3	0	98	3	55	15
6.	70	4292197	6222	"BIGDB	64	65	2	0	82	7	42	14
7.	70	629629	6265	"BIGDB	75	45	2	0	92	9	42	19



Unknown #,20

rea = 70170.00 Tentative Concentration is 15.00

1.	Phenanthrene, 2,5-dimethyl- (8CI9CI)	206 C16H14
2.	Phenanthrene, 2,3-dimethyl- (8CI9CI)	206 C16H14
3.	Phenanthrene, 3,6-dimethyl- (8CI9CI)	206 C16H14
4.	Naphthalene, 1,2-dihydro-4-phenyl- (8CI9CI)	206 C16H14
5.	Benzene, 1,1'-(1-cyclobutene-1,2-diyl)bis- (9CI)	206 C16H14
6.	Phenanthrene, 2,7-dimethyl- (8CI9CI)	206 C16H14
7.	2H-1-Benzopyran-2-one, 6,7-dimethoxy- (9CI)	206 C11H1004

Sample file: >P3390 Spectrum #: 1231
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

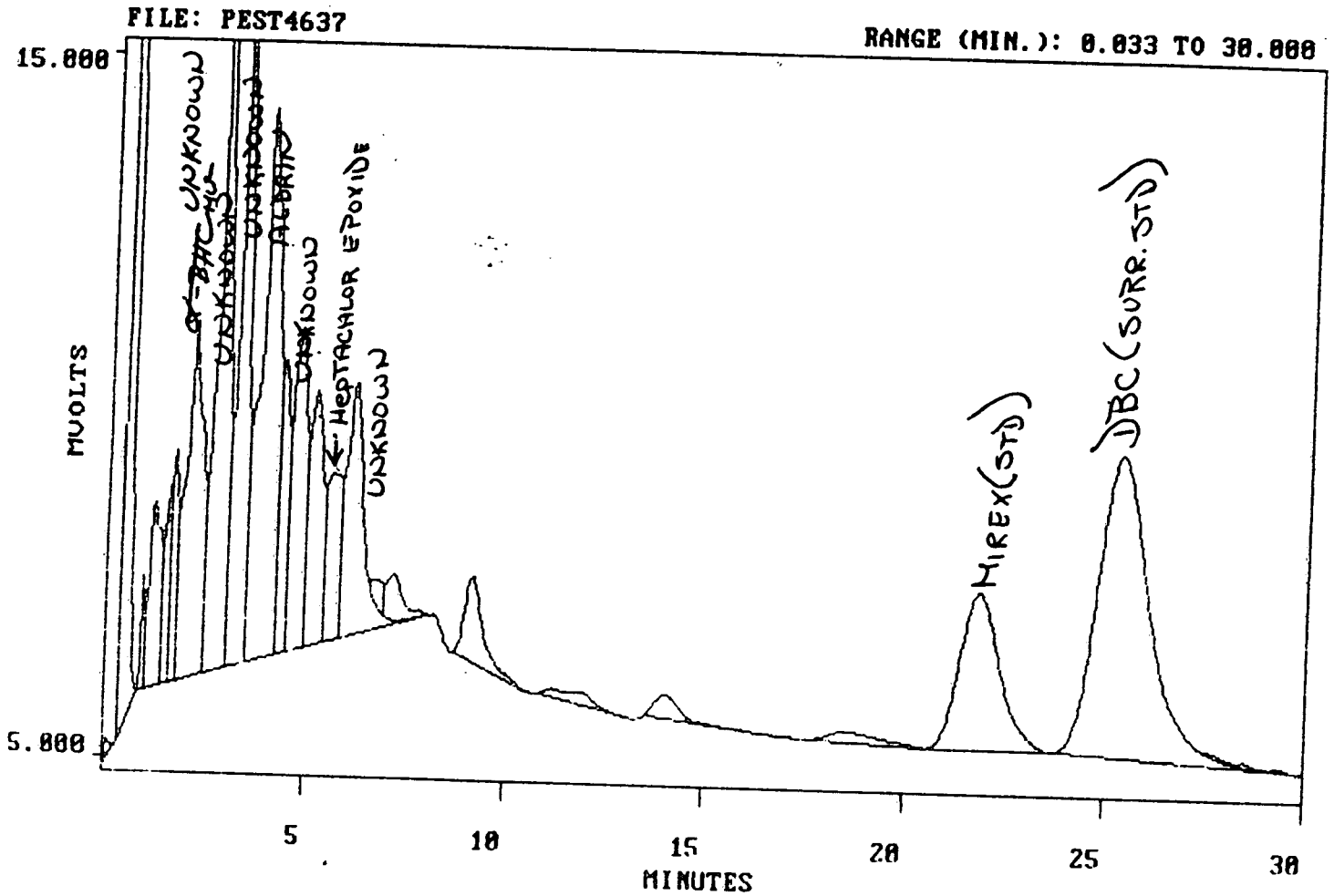
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	76*	3674666	25206	"BIGDB	74	58	2	0	83	12	40	56

BSA 08197991

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time: 10:49:27 Date: THU 17 SEP 87

Time: 07:55:08 Date: THU 10 SEP 87
Method: PEST1



Channel # . . . . . 4 Time: 08:25:46 Date: THU 10 SEP 87
Run #27 of 50

Sample name . . . . . .
Data file DAT351:PEST4637
Method name PEST1

Author . . . . . URM
Instrument 4
Column . . . . . 1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes . . . . . SUPELCOPORT

Run time . . . . . 30.00 min. Delay time . . . 0.00 min.
Acq. time . . . . . 07:55:08 Acq. date . . . . THU 10 SEP 87
Start PW . . . . . 20.00 sec. End PW . . . . . 150.00 sec.
Actual PW 140.0
Slope sens . . . . . 0.70 uv/sec.

Area reject 500
peaks found . . 24
Vol. Inj . . . . . 5.0 ul Sample amount . . 1.000
Conv. factor . . . 1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.575	LINDANE	0	
3.130	HEPTACHLOR	0	
8.208	P,P'-DDE	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
12.395	P,P'-DDD	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
22.759	MIREX (STD.)	0	S

Ronaxell ? 9/17/87.

==========

AREA PERCENT REPORT

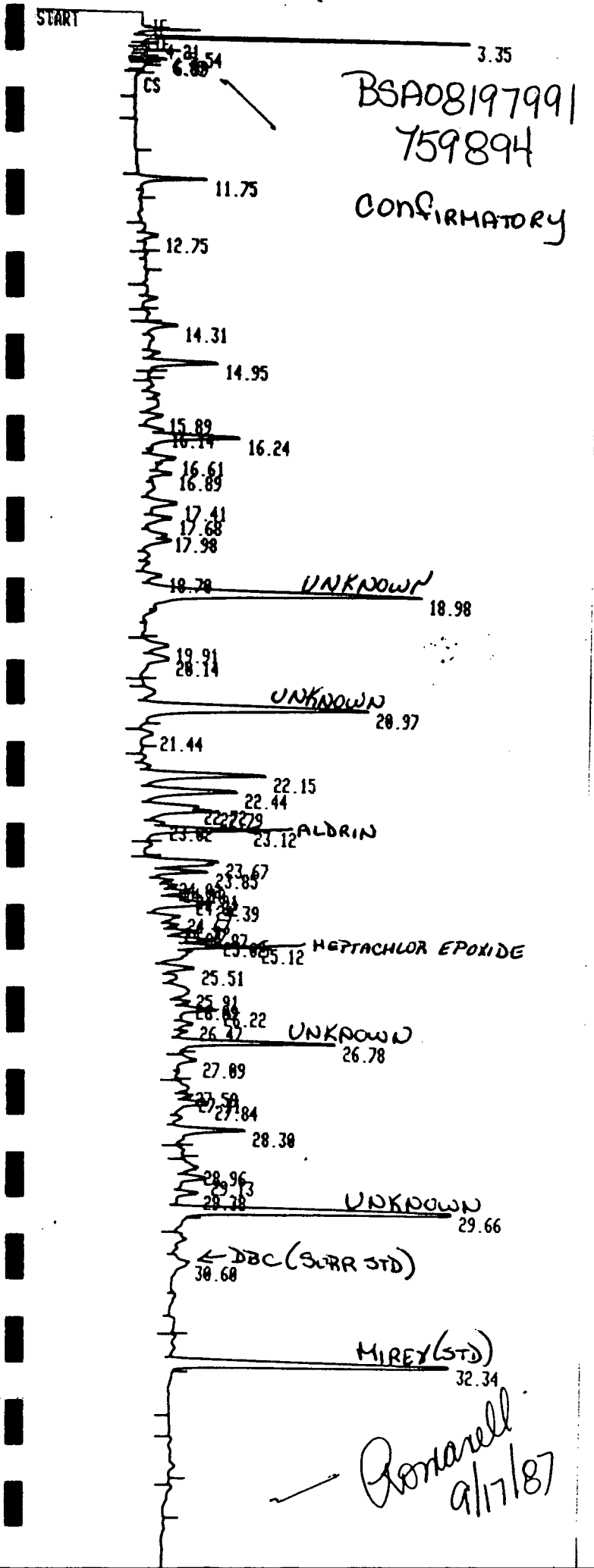
==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.130			0.055	2921	283	BB
2	0.504			61.349	3229036	724478	BB

214

3	0.958		0.255	12368	1885	BV
4	1.197		1.001	52704	2730	VV
5	1.572		0.477	25092	2927	VV
6	1.672		0.694	36531	3443	VV
7	2.105	~~alpha-BHC~~ MLK	2.825	148683200/.89	5307	VV
8	2.794	~~beta-BHC~~ MLK	4.140	217878200/1.3	11845	VV
9	3.288	~~delta-BHC~~ MLK	3.521	185312200/1.1	10970	VV
10	3.893	ALDRIN	4.711	247944	8218	VV
11	4.328		1.025	53957	4353	VV
12	4.721		2.106	110869200/.67	4796	VV
13	5.122		1.617	85128	3782	VV
14	5.577	HEPTACHLOR EPOXIDE	1.089	57308	2479	VV
15	6.085		2.167	114062200/.68	3767	VE
16	6.722		0.190	10003	413	EV
17	7.114	~~ENDOSULFAN I~~ MLK	0.405	21324	689	EB
18	9.129		0.752	39591	1253	BB
19	11.149		0.237	12468	136	BB
20	14.033		0.290	15249	363	BB
21	18.543		0.245	12887	158	BB
22	21.828	MIREX (STD)	3.064	161282	2302	BB
23	25.371	DBC (SURR. STD)	7.713	405975300/1.62	4449	BE
24	28.503	~~DBC/METHOX/END. I~~ MLK	0.090	4755	61	EB
TOTALS			100.000	5263347		

1.0 ug/l SPIKED INTO SAMPLE
162% REC.



RUN # 165 SEP/14/87 20:56:44
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 7

HP5890
SPB608

AREA%

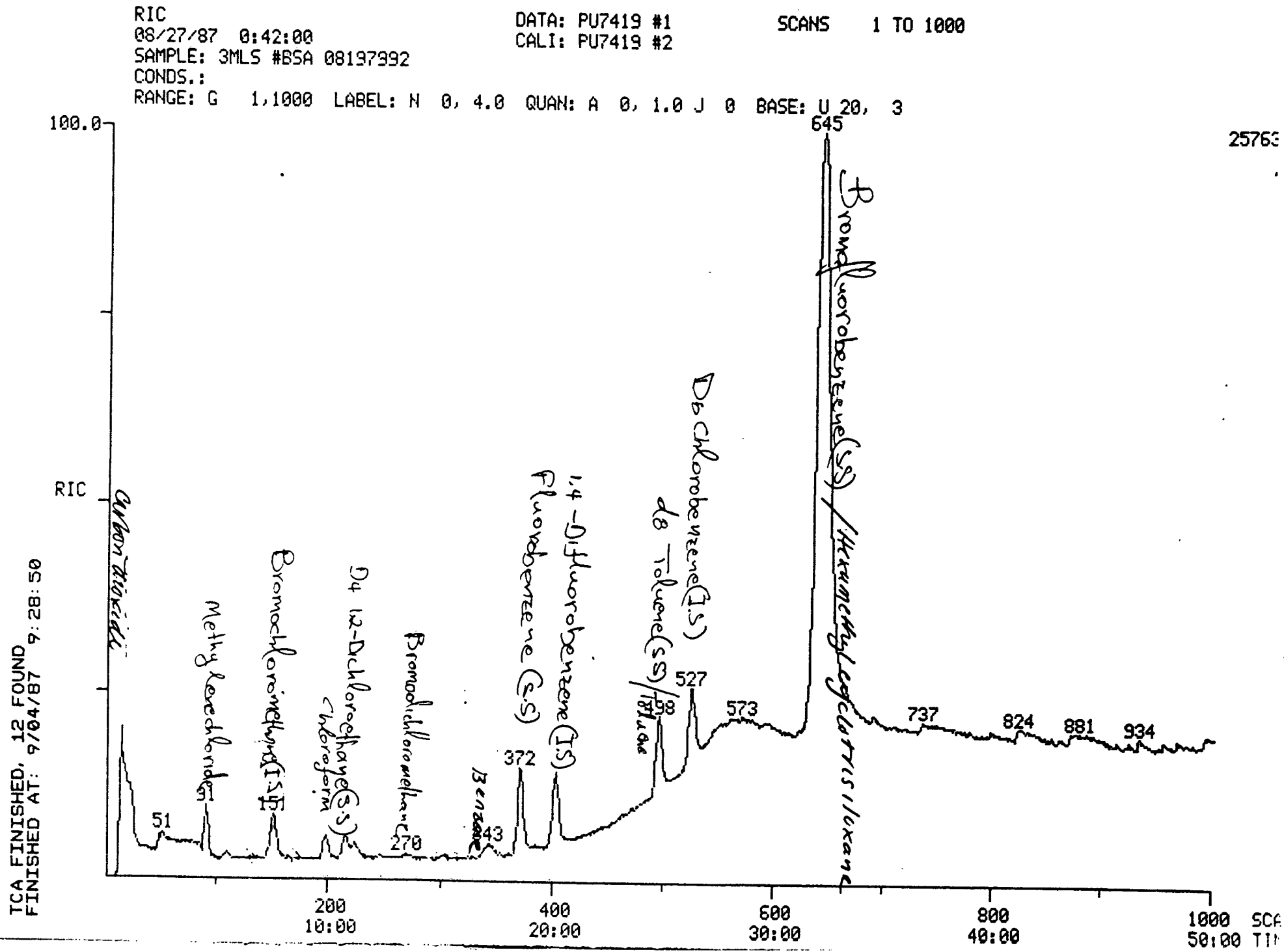
RT		AREA	TYPE	AR/HT	AREA%
3.35		2651000	BB	0.114	30.662
4.21		22920	BB	0.071	0.265
5.54		25479	BB	0.042	0.295
11.75		71994	BV	0.056	0.833
12.75		22323	VP	0.072	0.258
14.31		43782	PV	0.074	0.506
14.95		91677	PB	0.073	1.060
15.89		28776	VP	0.083	0.333
16.14		26721	PV	0.071	0.309
16.24		173910	VV	0.097	2.012
16.61		56230	VV	0.092	0.650
16.89		57631	VV	0.107	0.667
17.41		91643	VV	0.142	1.060
17.68		60934	VV	0.111	0.705
17.98		47687	VV	0.103	0.552
18.70		35624	PV	0.096	0.412
18.98		593250	VV	0.112	6.862
19.91		66678	BV	0.129	0.771
20.14		84503	VB	0.159	0.977
20.97		444110	PB	0.105	5.137
21.44		23452	PB	0.098	0.271
22.15		226550	VV	0.097	2.620
22.44		186310	VV	0.106	2.155
22.72		66342	VV	0.065	0.767
22.79		124990	VV	0.098	1.446
23.02		23530	VV	0.064	0.272
23.12	ALDRIN	156500	VB	0.083	1.810
23.67		80366	BV	0.059	0.930
23.85		85088	VV	0.076	0.984
24.02		31303	VV	0.067	0.362
24.10		34990	VV	0.065	0.405
24.21		68177	VV	0.090	0.789
24.32		38123	VV	0.054	0.441
24.39		118590	VP	0.107	1.372
24.63		46061	PV	0.090	0.533
24.77		32005	VV	0.072	0.370
24.87		61206	VV	0.080	0.708
25.02		87993	VV	0.081	1.018
25.12	HEPT EPOX	124400	VV	0.069	1.439
25.51		51487	PV	0.085	0.596
25.91		78006	VV	0.185	0.902
26.09		27038	VV	0.068	0.313
26.22		79482	VV	0.095	0.919
26.47		42122	VV	0.118	0.487
26.78		184880	VB	0.062	2.138
27.09		29715	BP	0.086	0.344
27.59		35299	PV	0.126	0.408
27.71		25313	VV	0.071	0.293
27.84		70471	VV	0.107	0.815
28.30		118700	PB	0.089	1.373
28.96		41132	BV	0.121	0.476
29.13		48982	VV	0.100	0.567
29.38		29040	VP	0.072	0.336
29.66		748470	PB	0.063	8.657
30.60	DBC	59605	PP	0.177	0.689
32.34		663230	PB	0.076	7.671

TOTAL AREA= 8645800
MUL FACTOR= 1.0000E+00

RAW DATA TRANSMITTED FILE: RW4067::-27
CARD-PTS TRANSMITTED FILE: CP4068::-27

229

III. 2. Reporting Package for NJDEP # SW2


RIC
08/27/87 0:42:00
SAMPLE: 3MLS #BSA 08197992
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: PU7419 #1
CALI: PU7419 #2
SCANS 1 TO 1000
100.0
RIC
25763
645
Bromofluorobenzene(SS) / Hexamethylcyclotrisiloxane
D6 Chlorobenzene(IS)
d8 Toluene(SS)
1,4-Difluorobenzene(IS)
Fluorobenzene (SS)
D4 1,2-Dichloroethane(SS)
Bromochloromethane(IS)
Methylenechloride
Carbon disulfide
Benzene
Chloroform
Toluene
51
372
527
573
737
824
881
934
200
10:00
400
20:00
600
30:00
800
40:00
1000
50:00
TCA FINISHED, 12 FOUND
FINISHED AT: 9/04/87 9:28:50

QUANTITATION REPORT FILE: PU7419

DATA: PU7419.TI
07/27/87 0:42:00
SAMPLE: 3MLS #BSA 08197992
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	151	7:33	1	1.000	A BB	105555.	30.000 UG/L	1.95
2	65	216	10:48	1	1.430	A BB	152153.	31.606 UG/L	2.05
3	50	22	1:06	1	0.146	A BB	15296.	1.099 UG/L	0.07
4	94	34	1:42	1	0.225	A*BV	~~12024~~	~~10.496 UG/L~~ 17.0	~~0.68~~
5	62	48	2:24	1	0.318	A BB	576.	0.161 UG/L	0.01
6	64	64	3:12	1	0.424	A*BB	3130.	0.645 UG/L	0.04
7	84	90	4:30	1	0.596	A BB	37456.	5.639 UG/L 9.4	0.37
~~8~~	~~43~~	~~90~~	~~4:30~~	~~1~~	~~0.596~~	~~A*BV~~	~~42125.~~	~~4.127 UG/L~~	~~0.27~~
~~9~~	~~76~~	~~78~~	~~3:54~~	~~1~~	~~0.517~~	~~A*BV~~	~~4592.~~	~~4.104 UG/L~~	~~0.27~~
10	96	142	7:06	1	0.940	A BB	4445.	~~0.629 UG/L~~ 1	0.04
11	63	170	8:30	1	1.126	A*BB	7408.	~~0.657 UG/L~~ 1	0.04
12	96	186	9:18	1	1.232	A BB	3238.	0.469 UG/L	0.03
13	83	198	9:54	1	1.311	A BB	188377.	16.351 UG/L 21.3	1.06
14	62	219	10:57	1	1.450	A*BB	6412.	0.520 UG/L	0.03
15	101	130	6:30	1	0.861	A BB	2314.	0.189 UG/L	0.01
~~16~~	~~NOT FOUND~~								
~~17~~	~~56~~	~~145~~	~~7:15~~	~~1~~	~~0.960~~	~~A*BB~~	~~6127.~~	~~272.589 UG/L~~	~~17.74~~
~~18~~	~~53~~	~~142~~	~~7:06~~	~~1~~	~~0.940~~	~~A*VB~~	~~2648.~~	~~142.512 UG/L~~	~~9.24~~
19	114	404	20:12	19	1.000	A BB	657923.	30.000 UG/L	1.95

MAS IDENT

MAS IDENT

23

~~20~~	~~43~~	~~136~~	~~6:48~~	~~19~~	~~0.337~~	~~A*BB~~	~~20816.~~	~~121.403 UG/L~~		~~7.87~~
21	97	210	10:30	19	0.520	A BB	1002.	0.240 UG/L		0.02
22	117	223	11:09	19	0.552	A BB	461.	0.216 UG/L		0.01
~~23~~	~~43~~	~~244~~	~~12:12~~	~~19~~	~~0.604~~	~~A*BV~~	~~33264.~~	~~424.112 UG/L~~		~~27.51~~
24	83	269	13:27	19	0.666	A BB	29695.	4.850 UG/L	8.1	0.31
25	NOT	FOUND								
26	75	287	14:21	19	0.710	A BB	~~18510.~~	~~3.260 UG/L~~	5.4	~~0.21~~ MIS IDENT.
27	NOT	FOUND								
28	129	339	16:57	19	0.839	A*BB	6226.	~~0.916 UG/L~~	1.5	~~0.06~~ MIS IDEN
29	97	300	15:00	19	0.743	A*BB	6184.	0.766 UG/L	1.3	0.05
30	NOT	FOUND	342							
31	NOT	FOUND					72189	13.9WG		5
32	63	340	17:00	19	0.842	A*BV	3242.	0.219 UG/L		0.01
33	173	403	20:09	19	0.998	A BB	1136.	0.246 UG/L		0.02
34	117	527	26:21	34	1.000	A BB	506491.	30.000 UG/L		1.95
~~35~~	~~43~~	~~302~~	~~15:06~~	~~34~~	~~0.573~~	~~A BB~~	~~100128.~~	~~264.846 UG/L~~		~~17.18~~
~~36~~	~~43~~	~~327~~	~~16:21~~	~~34~~	~~0.620~~	~~A*BV~~	~~54168.~~	~~66.749 UG/L~~		~~4.34~~
37	164	456	22:48	34	0.865	A BB	450.	0.051 UG/L		0.00
38	NOT	FOUND								
39	92	503	25:09	34	0.954	A BB	30398.	1.963 UG/L	3.3	0.13
40	112	546	27:18	34	1.036	A VB	6710.	0.296 UG/L		0.02
41	NOT	FOUND								
~~42~~	~~104~~	~~603~~	~~30:09~~	~~34~~	~~1.144~~	~~A*BB~~	~~8996.~~	~~30.691 UG/L~~		~~1.99~~
~~43~~	~~NOT~~	~~FOUND~~								
~~44~~	~~NOT~~	~~FOUND~~								
45	146	800	40:00	34	1.518	A VV	13606.	~~0.847 UG/L~~	1.4	~~0.05~~ MIS IDENT.
46	146	834	41:42	34	1.583	A VV	6912.	0.394 UG/L		0.03
47	146	834	41:42	34	1.583	A*VB	22618.	~~1.147 UG/L~~	1.9	~~0.07~~ MIS IDENT.
48	96	372	18:36	34	0.706	A BB	717976.	31.657 UG/L		2.05
49	95	641	32:03	34	1.216	A BB	465963.	27.806 UG/L		1.80

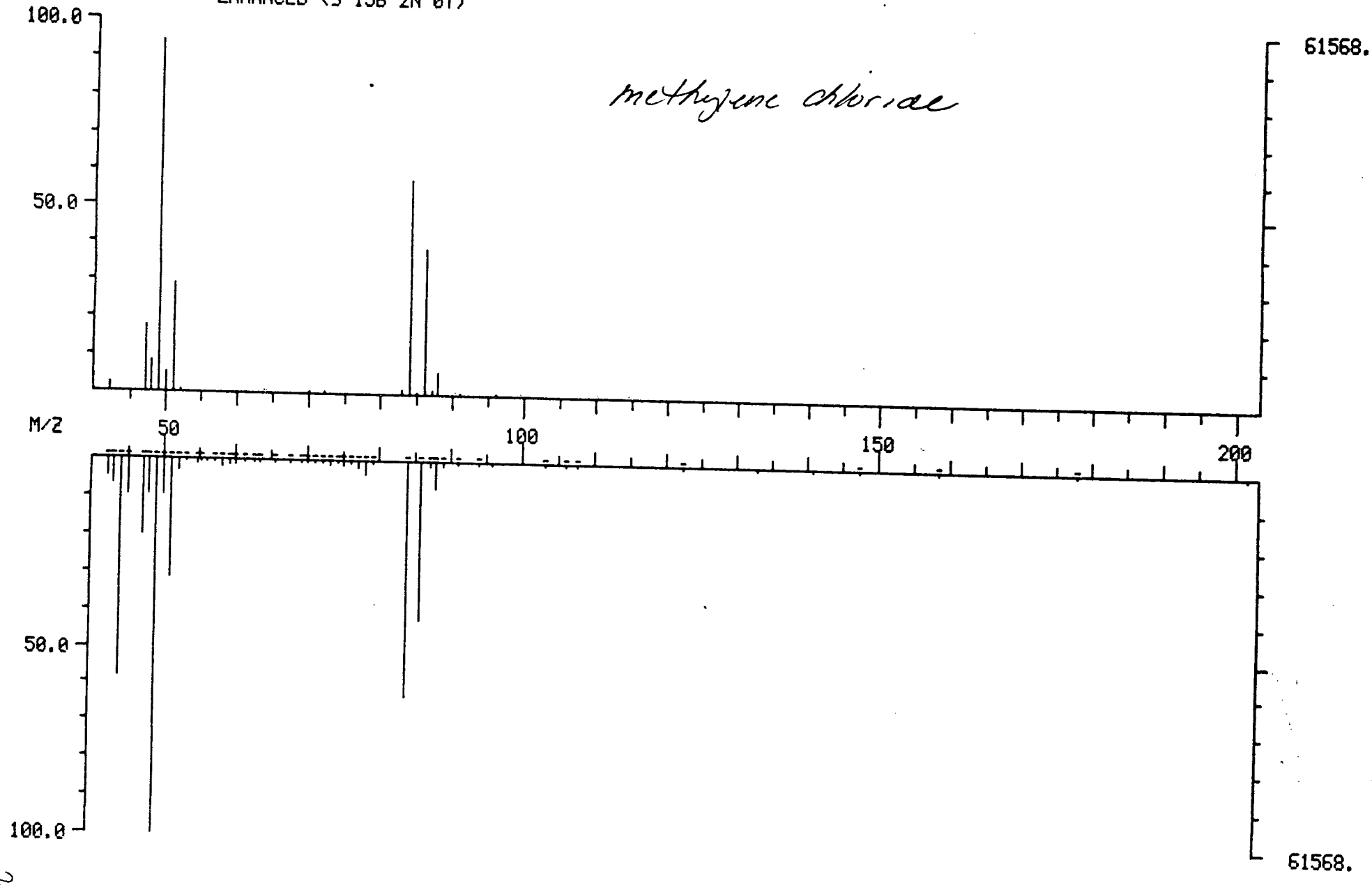
Non Targeted Compound-

	scan #	ref pk	Area	(Conc ug/l)
1.	14	1	4591570	230 J,B
2	645	34	24,336300	750 J,B

DUAL MASS SPECTRUM
08/27/87 0:42:00 + 4:30
SAMPLE: 3MLS #BSA 08197992
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7419 #90
CALI: PU7419 #2

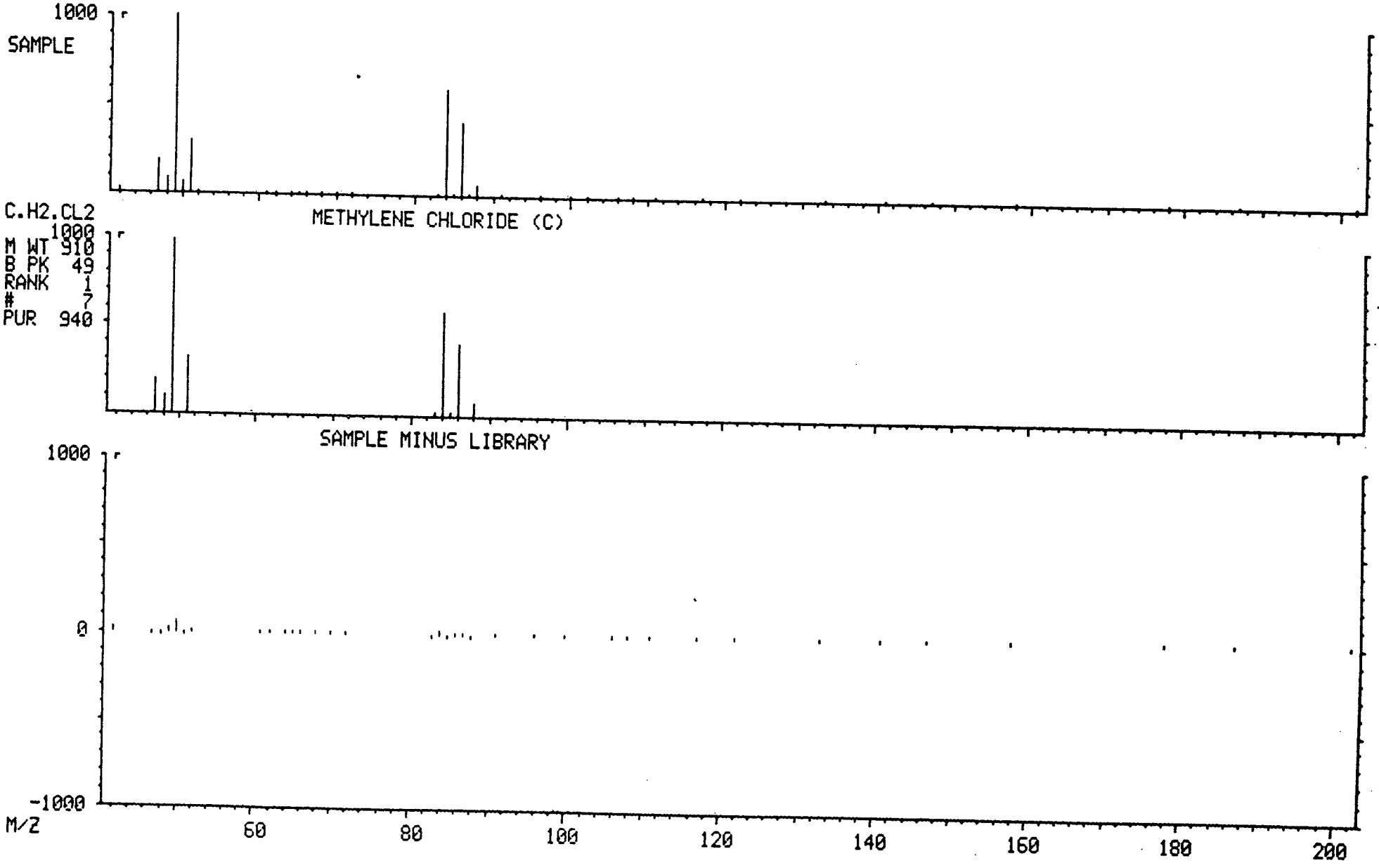
BASE M/Z: 49/ 49
RIC: 164607./ 242175.



LIBRARY SEARCH
08/27/87 0:42:00 + 4:30
SAMPLE: 3MLS #BSA 08197392
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7419 # 90
CALI: PU7419 # 2

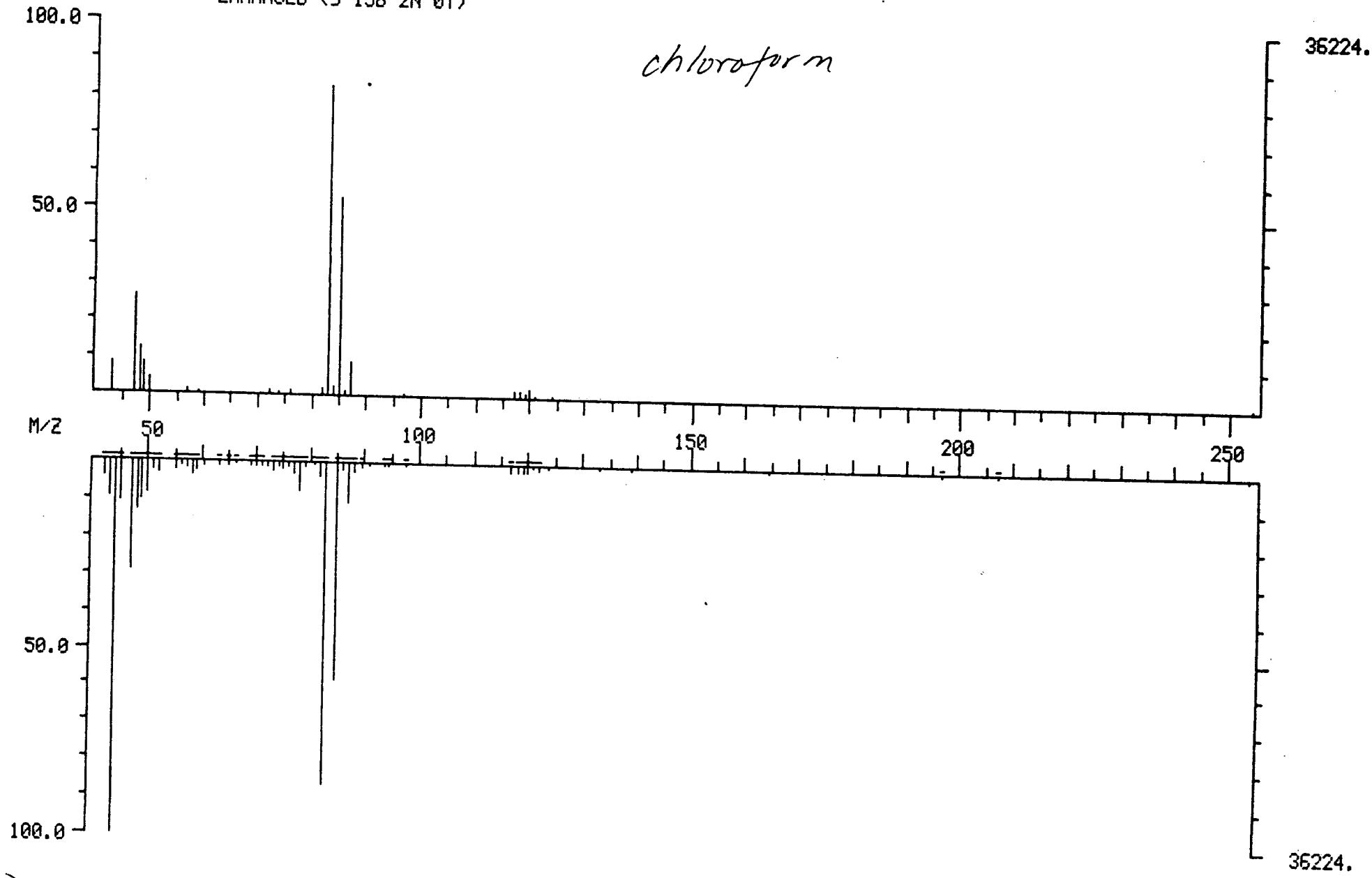
BASE M/Z: 49
RIC: 164607.



DUAL MASS SPECTRUM
08/27/87 0:42:00 + 9:54
SAMPLE: 3MLS #BSA 08197992
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7419 #198
CALI: PU7419 #2

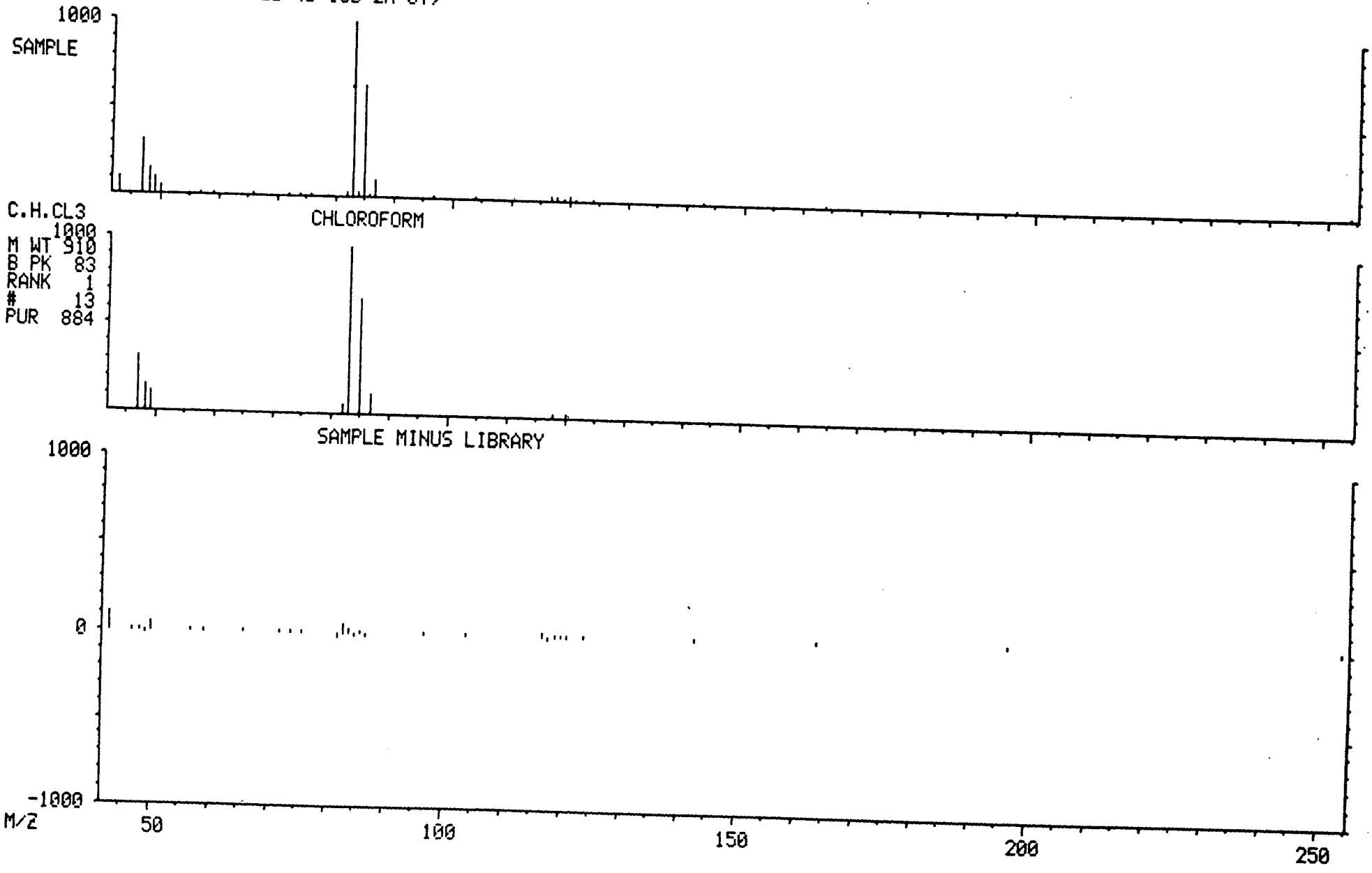
BASE M/Z: 83/ 44
RIC: 81663./ 149503.



LIBRARY SEARCH
08/27/87 0:42:00 + 9:54
SAMPLE: 3MLS #BSA 08197992
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7419 # 198
CALI: PU7419 # 2

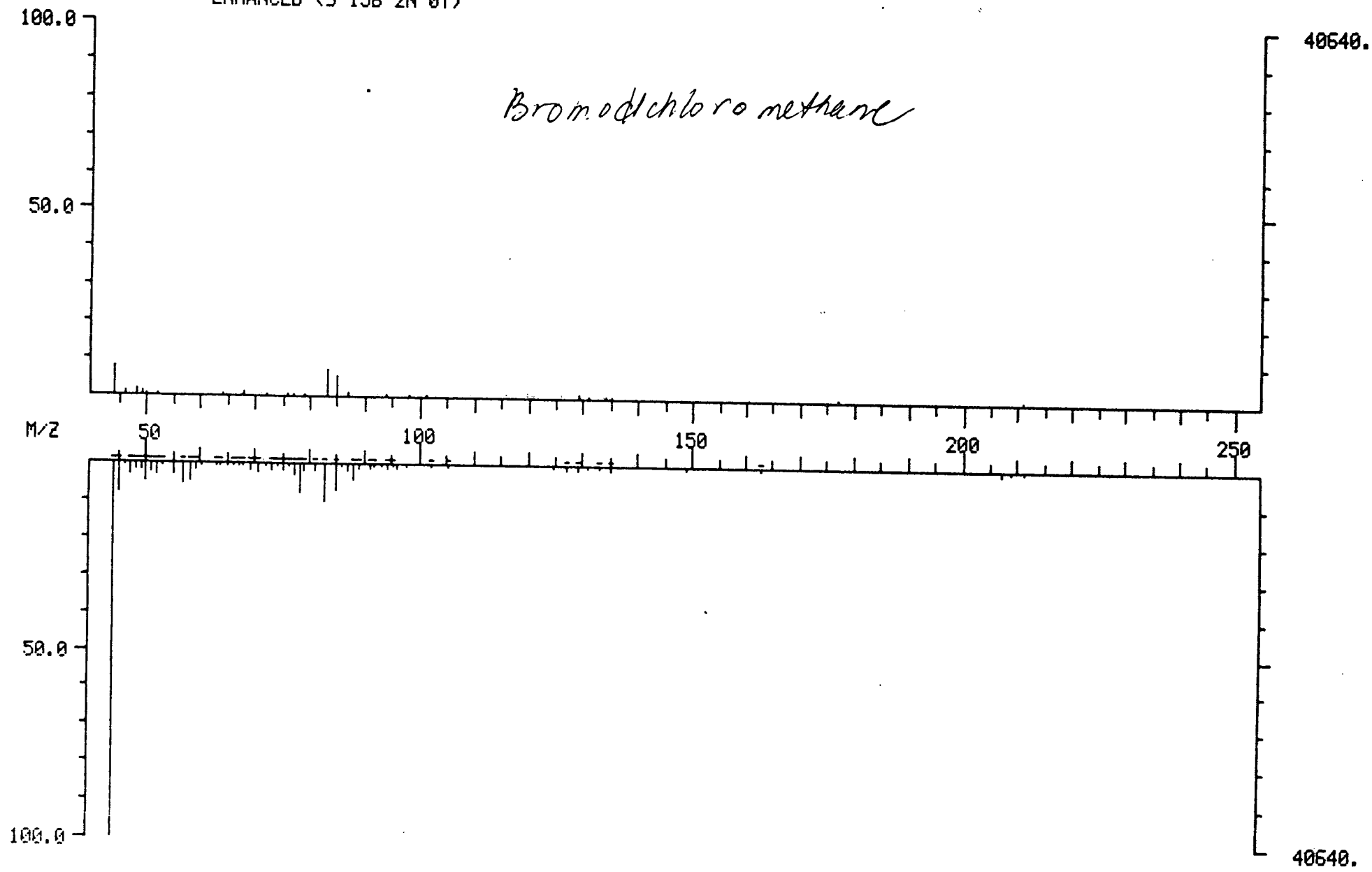
BASE M/Z: 83
RIC: 81663.



DUAL MASS SPECTRUM
08/27/87 0:42:00 + 13:27
SAMPLE: 3MLS #BSA 08197992
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7419 #269
CALI: PU7419 #2

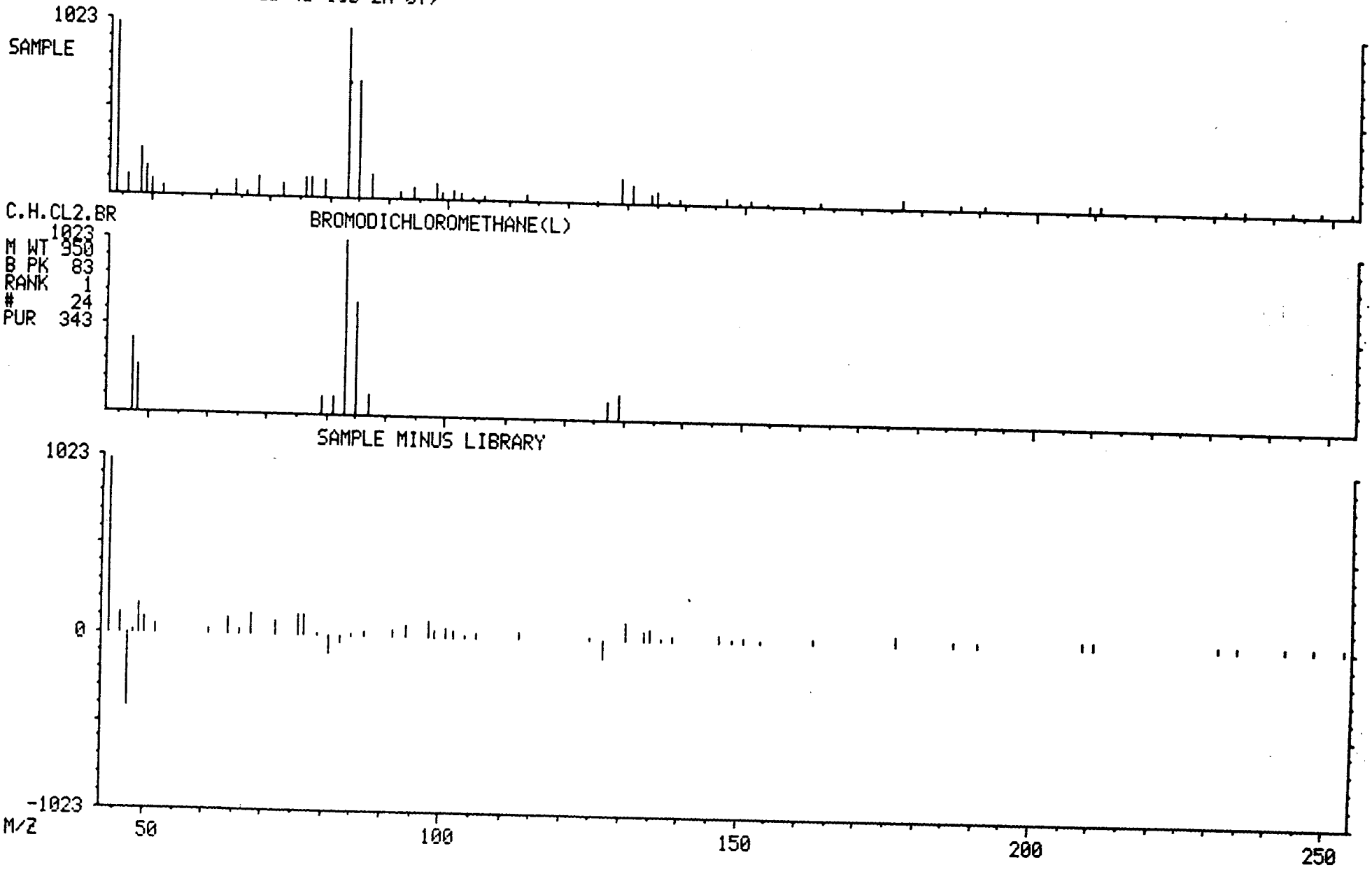
BASE M/Z: 44/ 44
RIC: 16767./ 85631.



LIBRARY SEARCH
08/27/87 0:42:00 + 13:27
SAMPLE: 3MLS #BSA 08197992
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7419 # 269
CALI: PU7419 # 2

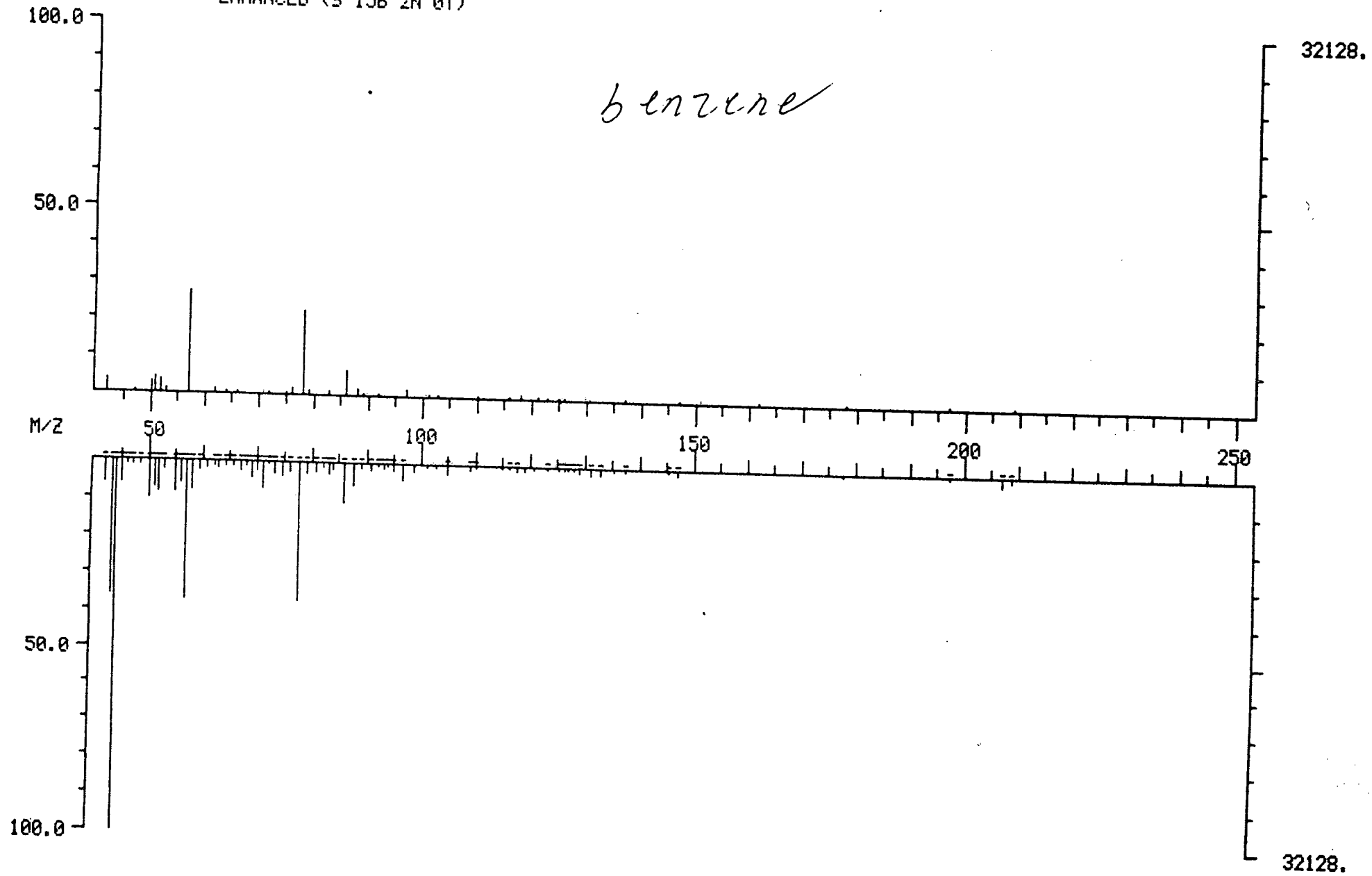
BASE M/Z: 44
RIC: 16575.



DUAL MASS SPECTRUM
08/27/87 0:42:00 + 17:06
SAMPLE: 3MLS #BSA 08197992
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7419 #342
CALI: PU7419 #2

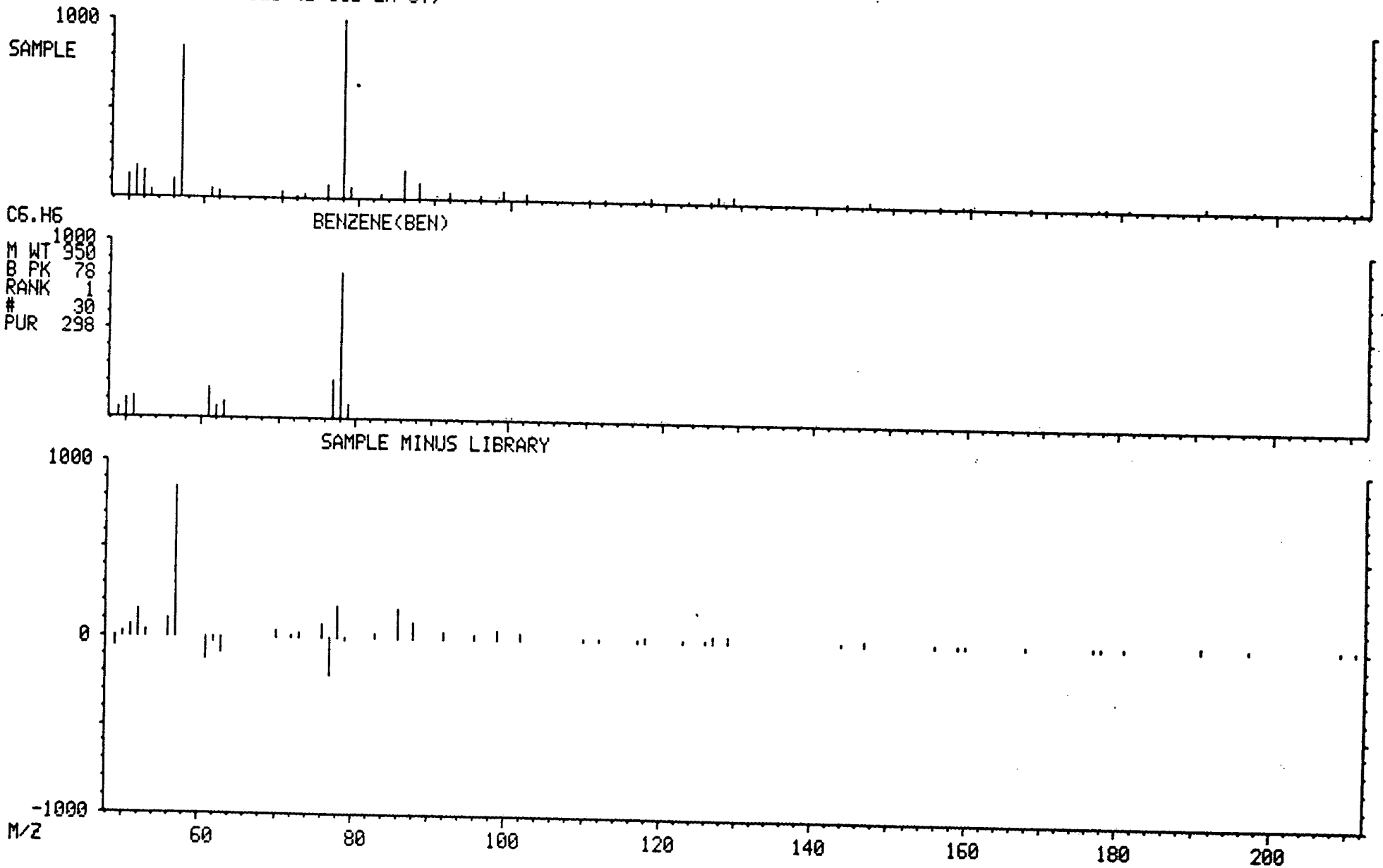
BASE M/Z: 57/ 44
RIC: 30271./ 122751.



LIBRARY SEARCH
08/27/87 0:42:00 + 17:03
SAMPLE: 3MLS #BSA 08197992
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7419 # 341
CALI: PU7419 # 2

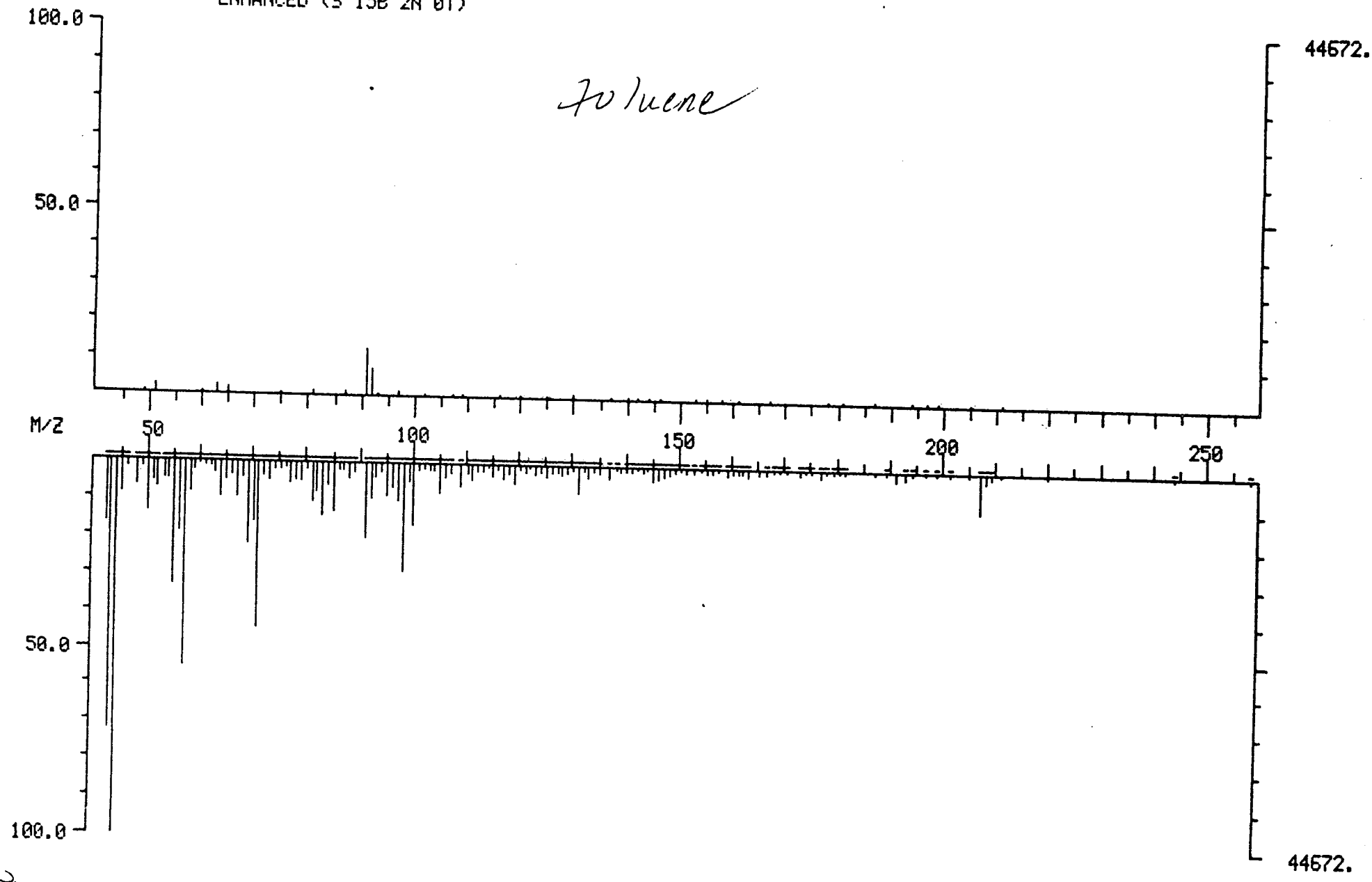
BASE M/Z: 78
RIC: 28575.



DUAL MASS SPECTRUM
08/27/87 0:42:00 + 25:09
SAMPLE: 3MLS #BSA 08197992
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7419 #503
CALI: PU7419 #2

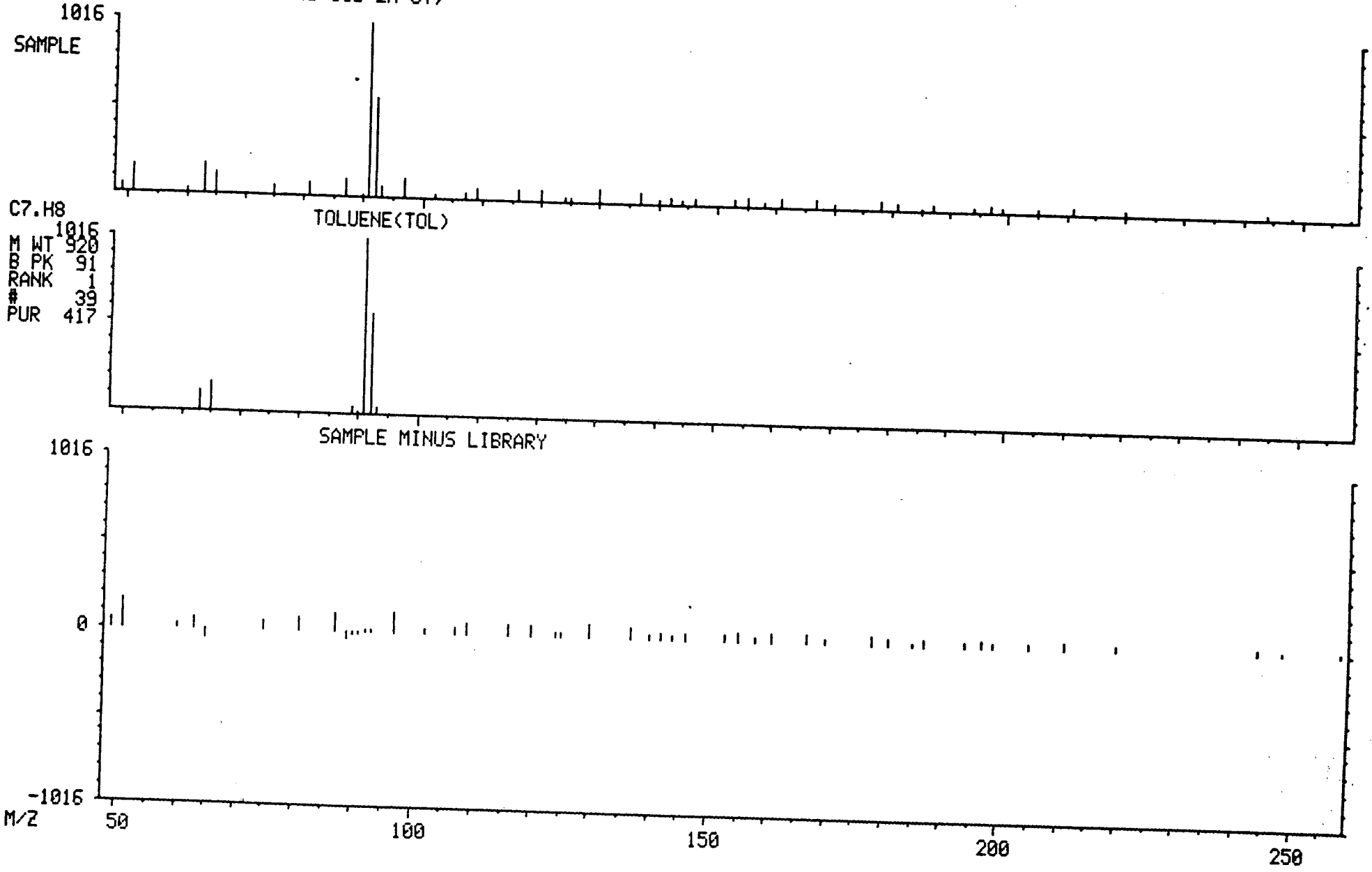
BASE M/Z: 91/ 44
RIC: 20735./ 375295.



LIBRARY SEARCH
08/27/87 0:42:00 + 25:09
SAMPLE: 3MLS #BSA 08197992
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7419 # 503
CALI: PU7419 # 2

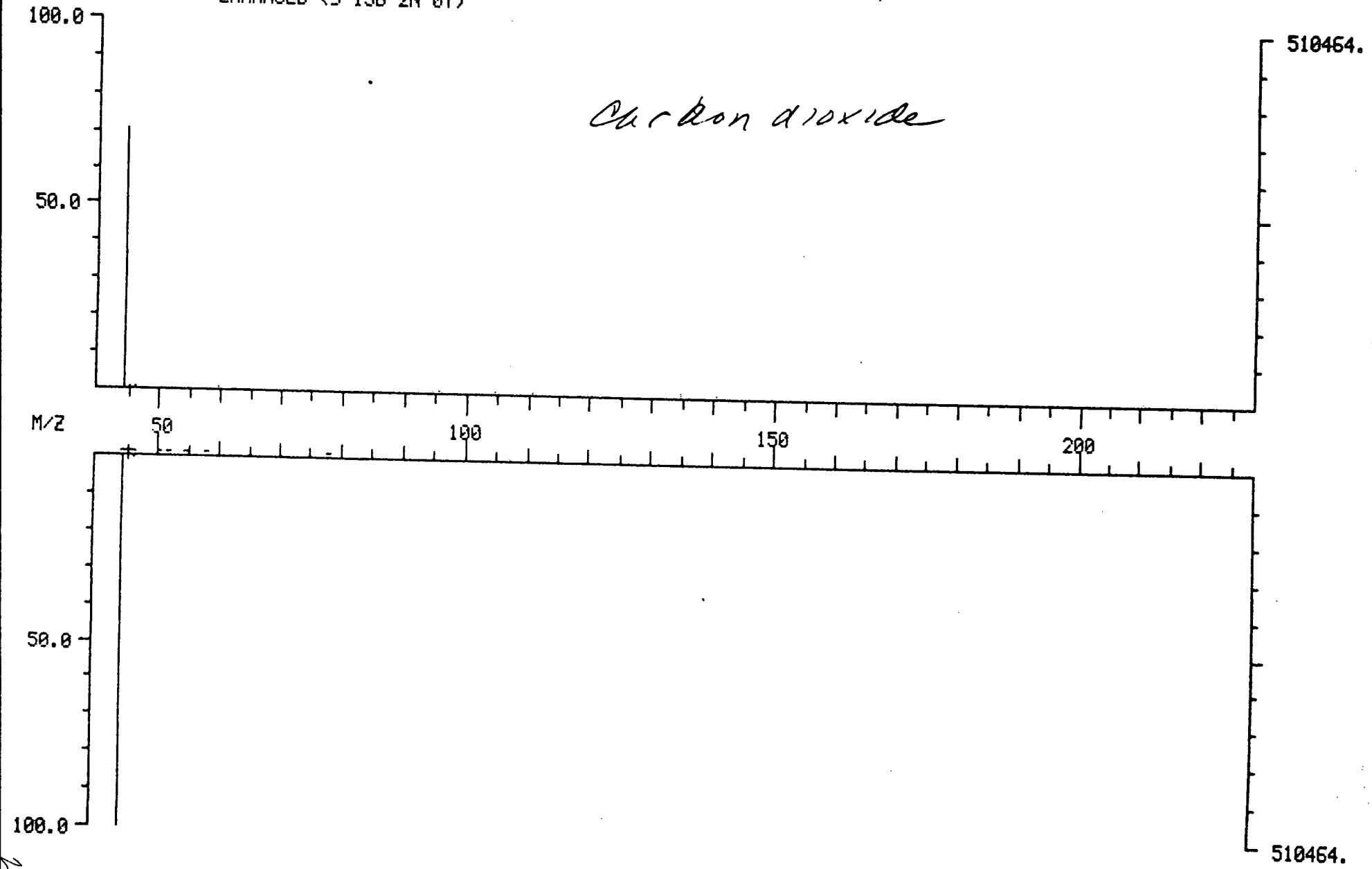
BASE M/Z: 91
RIC: 20735.



DUAL MASS SPECTRUM
08/27/87 0:42:00 + 0:42
SAMPLE: 3MLS #BSA 08197992
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7419 #14
CALI: PU7419 #2

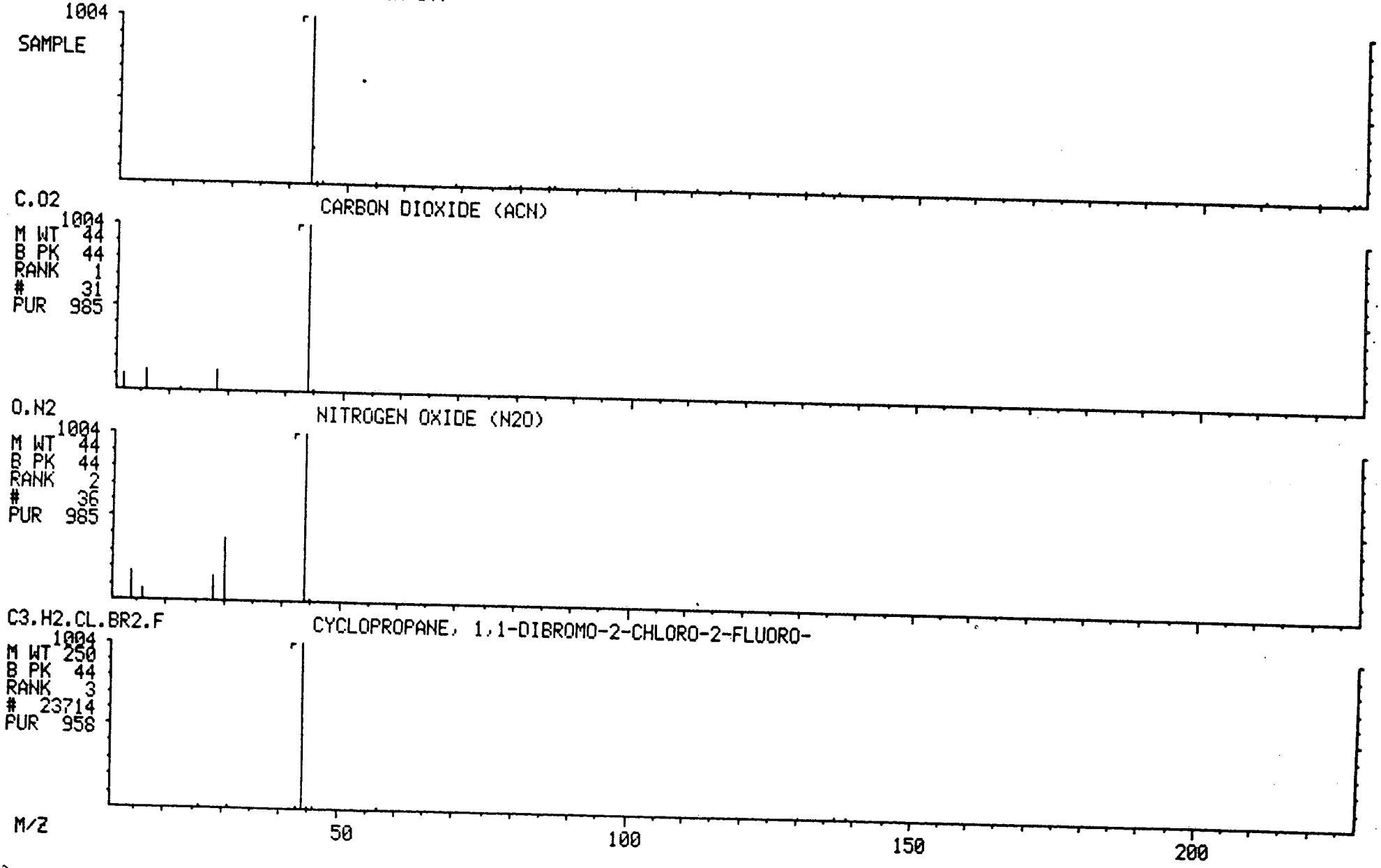
BASE M/Z: 44/ 44
RIC: 364543./ 520703.



LIBRARY SEARCH
08/27/87 0:42:00 + 0:42
SAMPLE: 3MLS #BSA 08197992
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7419 # 14
CALI: PU7419 # 2

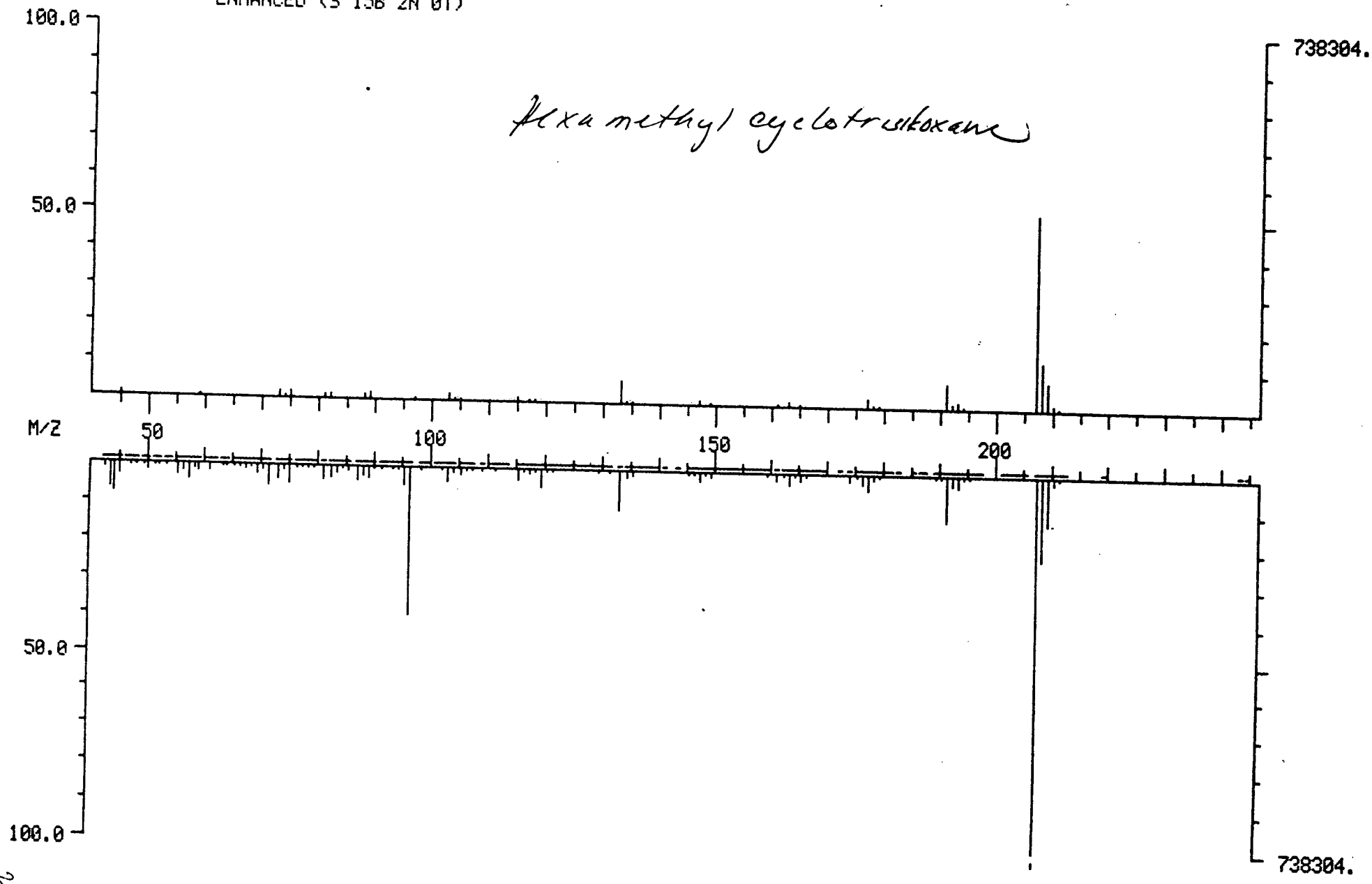
BASE M/Z: 44
RIC: 364543.



DUAL MASS SPECTRUM
08/27/87 0:42:00 + 32:15
SAMPLE: 3ML5 #BSA 08197992
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7419 #645
CALI: PU7419 #2

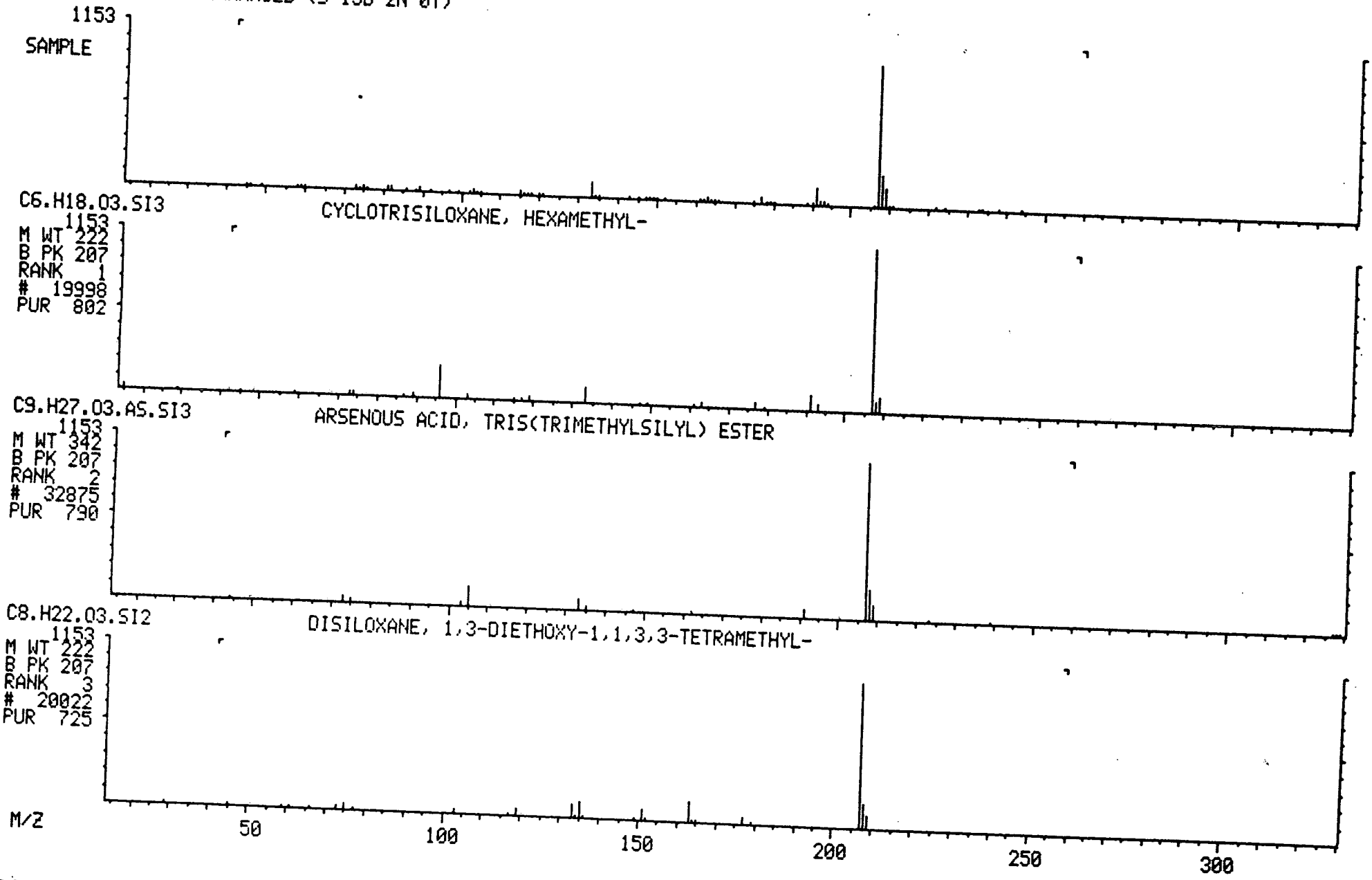
BASE M/Z: 207/ 207
RIC: 890879./ 2572280.



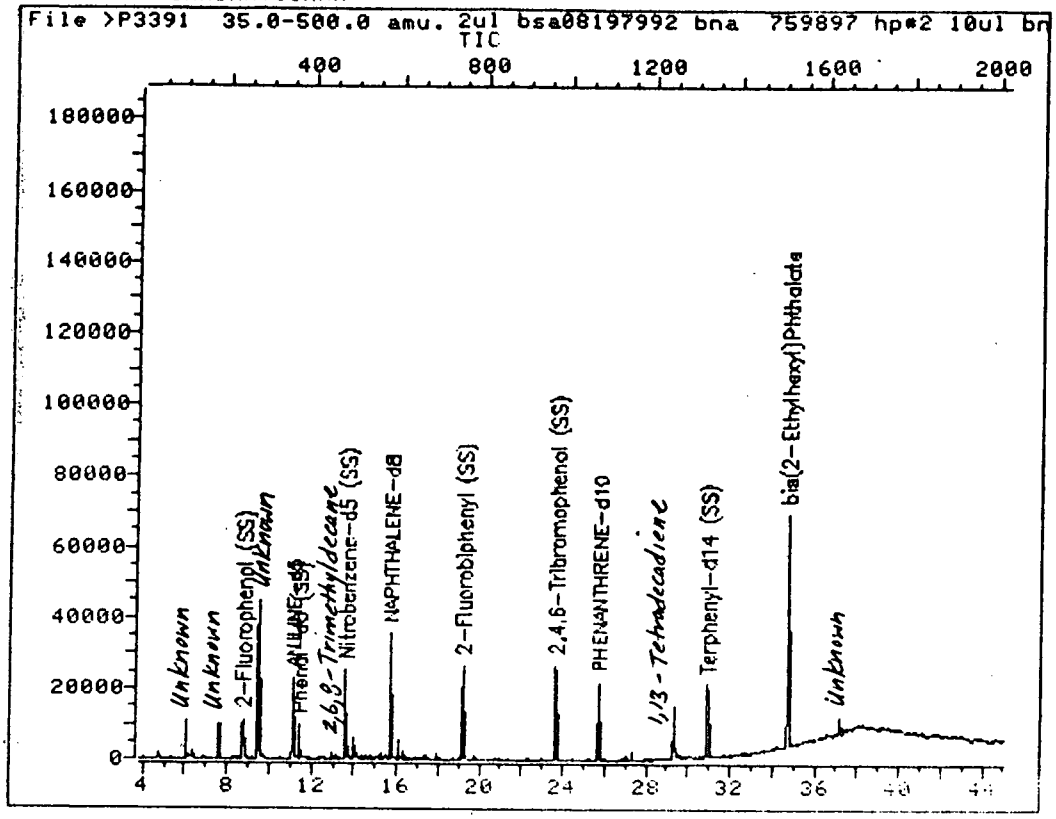
LIBRARY SEARCH
08/27/87 0:42:00 + 32:15
SAMPLE: 3MLS #BSA 08197992
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7419 # 645
CALI: PU7419 # 2

BASE M/Z: 207
RIC: 883711.



TOTAL ION CHROMATOGRAM



Data File: >P3391::B2 Quant Output File: ^P3391::QT
Name: 2ul bsa08197992 bna
Misc: 759897 hp#2 10ul bn498=>1ml sw2 BTL#61

Id File: ID_625::MF
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870909 21:50
Injected at: 870909 21:03

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 870909 21:50
Output File: ^P3391::QT Injected at: 870909 21:03
Data File: >P3391::B2 Dilution Factor: 1.00000
Name: 2ul bsa08197992 bna
Misc: 759897 hp#2 10ul bn488=>1ml sw2 BTL#61

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.11	358	18476	42.85	ug/mL	93
3)	2-Fluorophenol (SS)	8.73	241	11825	40.22	ug/mL	50
6)	Phenol-d6 (SS)	11.40	372	10447	25.59	ug/mL	69
14)	*NAPHTHALENE-d8	15.66	581	34938	41.04	ug/mL	60
15)	Nitrobenzene-d5 (SS)	13.60	480	18013	36.79	ug/mL	77
29)	2-Fluorobiphenyl (SS)	19.16	753	20182	39.69	ug/mL	99
40)	2,4,6-Tribromophenol (SS)	23.62	972	14485	54.35	ug/mL	78
41)	*PHENANTHRENE-d10	25.68	1073	25011	41.02	ug/mL	67
51)	Terphenyl-d14 (SS)	30.87	1328	23002	51.43	ug/mL	39
57)	bis(2-Ethylhexyl)Phthalate	34.69	1515	38964	67.61	ug/mL	82

* Compound is ISTD

MS data file header from : >P3391

Sample: 2ul bsa08197992 bna Operator: GLENN MS 9/09/87 21:03
Misc : 759897 hp#2 10ul bn488=>1ml sw2 BTL#61
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures : 30. 300. 0. 0. 0.
Chromatographic times, min. : 4.0 7.3 0.0 0.0 0.0
Chromatographic rate, deg/min: 8.0 0.0 0.0 .5 0.0

>P3391 2ul bsa08197992 bna 759897 hp#2 10ul bn488=>1ml sw2
35.01 500.0 CLP ADC TIC
bslope: .20 Area Reject: 5869. Max Peaks: 8 Bunching: 1
mslope: 0.00 Results File IP3391 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	4.66	40	41	53	1934	6862	5941	2.88	1.478
2	6.00	104	107	121	10982	41679	41097	19.92	10.227
3	7.59	183	185	198	9684	31993	29774	14.43	7.409
4	9.46	270	277	284	44337	207391	206279	100.00	51.330
5	13.97	496	498	500	5656	11299	10287	4.99	2.560
6	14.07	500	503	506	3288	9658	8138	3.95	2.025
7	29.26	1246	1249	1263	14786	99160	87490	42.41	21.771
8	37.12	1631	1634	1637	4360	67683	12859	6.23	3.200

Sum of corrected areas: 401865.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	42.8	58687.	11.11	3.84 - 13.39
2	41.0	83970.	15.66	13.39 - 20.67
3	41.0	70301.	25.68	20.67 - 45.05

Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 0.00 Amount Used (AU) = 0.00

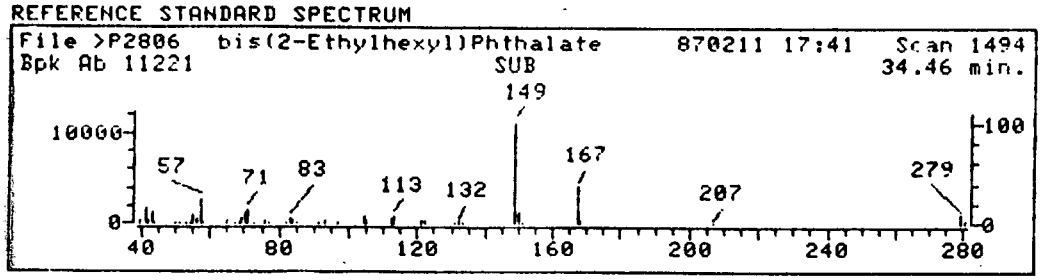
Correction Factor = ******** = (AM / AU) / (DF * FS)

$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unk} * \text{Correction Factor}$$

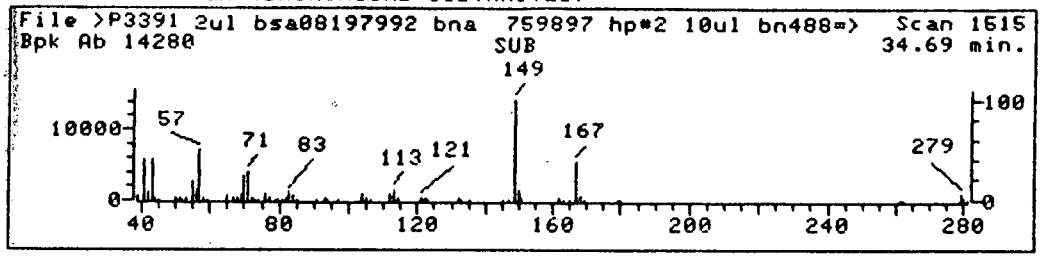
9:57 PM WED., 9 SEPT, 1987

24

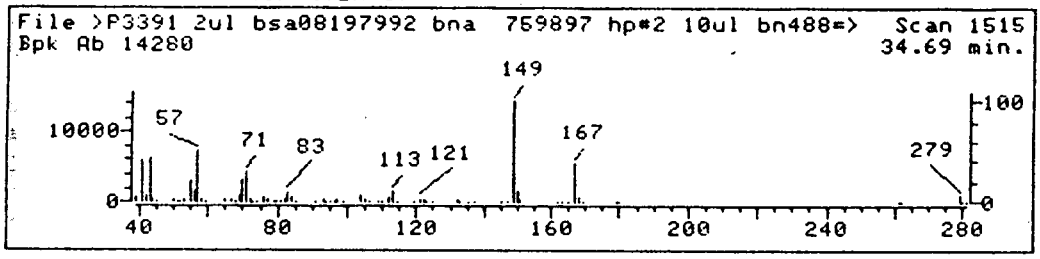
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

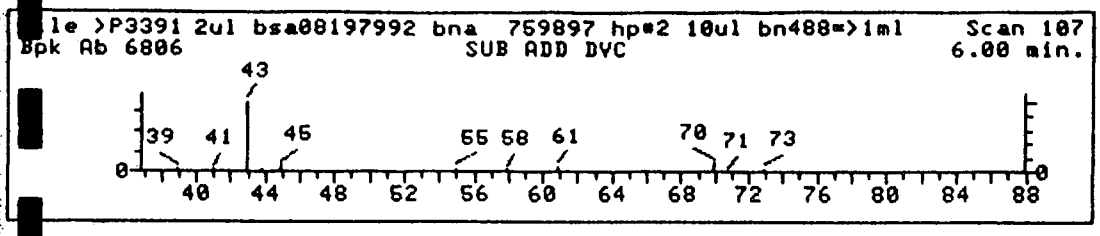


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3391::B2 Quant Output File: ^P3391::QT
Name: 2ul bsa08197992 bna
Misc: 759897 hp#2 10ul bn488=>1ml sw2 BTL#61
Quant Time: 870909 21:50 Quant ID File: ID_625::ME
Injected at: 870909 21:03 Last Calibration: 870909 17:00

Compound No: 57
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1515
Retention Time: 34.69 min.
Quant Ion: 149.0
Area: 38964
Concentration: 67.61 ug/mL
q-value: 82

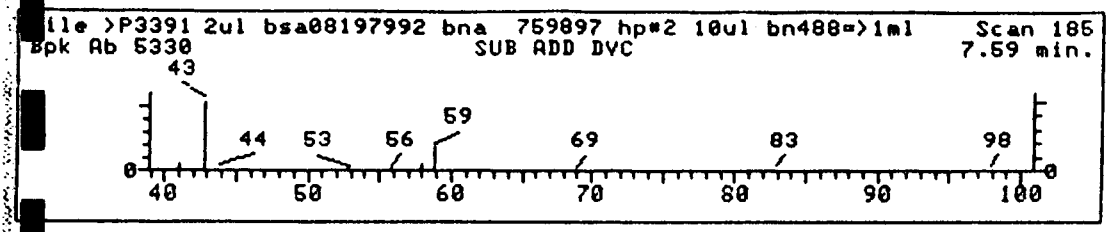


Unknown #,2

rea = 41097.00 Tentative Concentration is 30.00

Sample file: >P3391 Spectrum #: 107

No data base entries were retrieved.

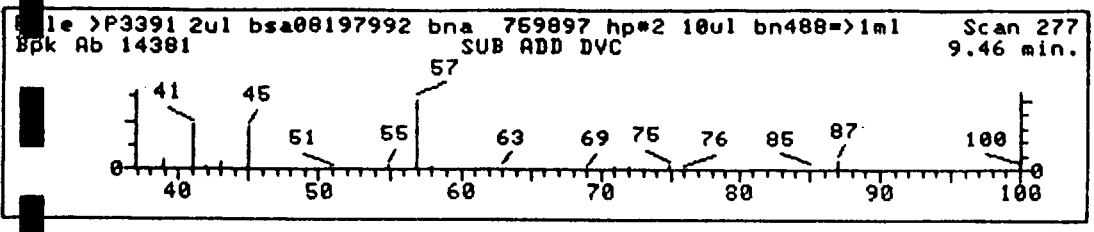


Unknown #,3

rea = 29774.00 Tentative Concentration is 22.00

Sample file: >P3391 Spectrum #: 185

No data base entries were retrieved.

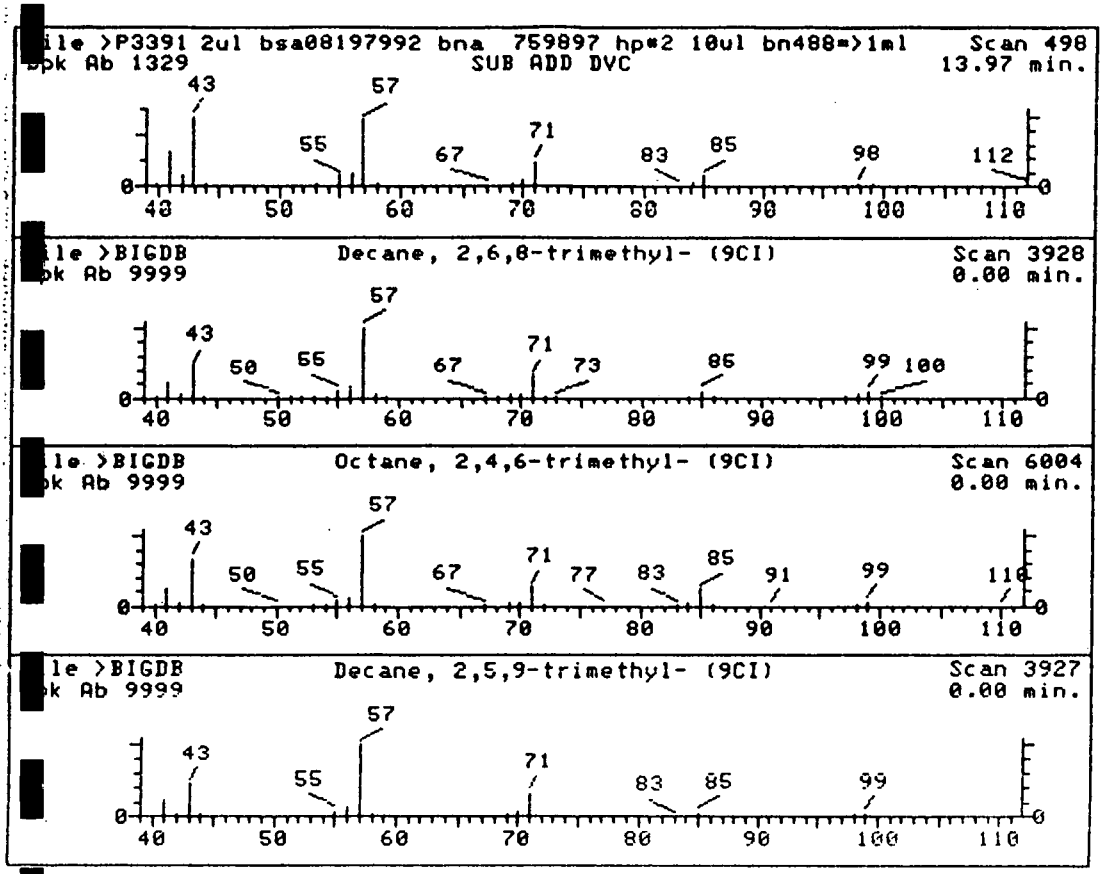


Unknown #,4

Area = 206279.0 Tentative Concentration is 150.00

Sample file: >P3391 Spectrum #: 277

No data base entries were retrieved.



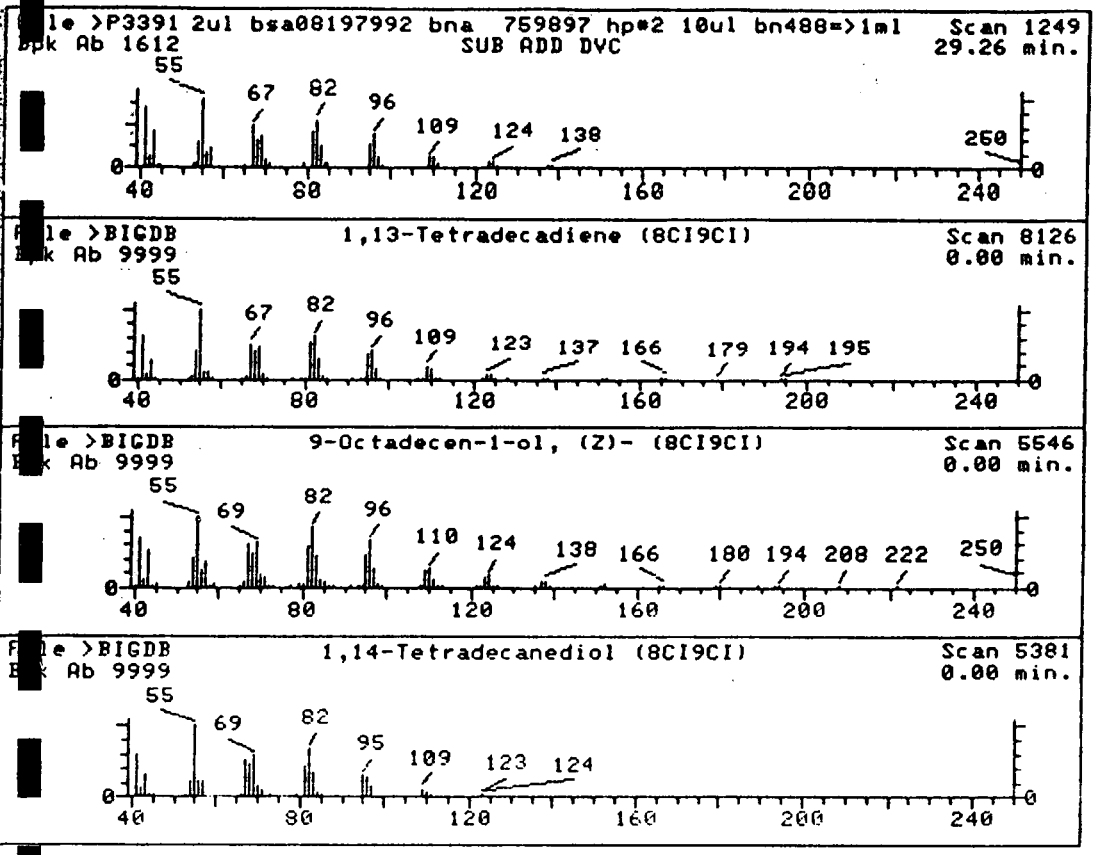
Unknown #,9

rea = 10287.00 Tentative Concentration is 5.00

1.	Decane, 2,6,8-trimethyl- (9CI)	184 C13H28
2.	Octane, 2,4,6-trimethyl- (9CI)	156 C11H24
3.	Decane, 2,5,9-trimethyl- (9CI)	184 C13H28
4.	Octane, 3,5-dimethyl- (8CI9CI)	142 C10H22
5.	Heptane, 2,3,6-trimethyl- (8CI9CI)	142 C10H22
6.	Heptane, 3,5-dimethyl- (8CI9CI)	128 C9H20
7.	Pentane, 2,2,3,4-tetramethyl- (8CI9CI)	128 C9H20

Sample file: >P3391 Spectrum #: 498
earch speed: 1 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78	62108263	3928	"BIGDB	52	40	2	0	95	1	55	17
2.	70	62016379	6004	"BIGDB	49	36	3	0	95	8	42	14



Unknown #,7

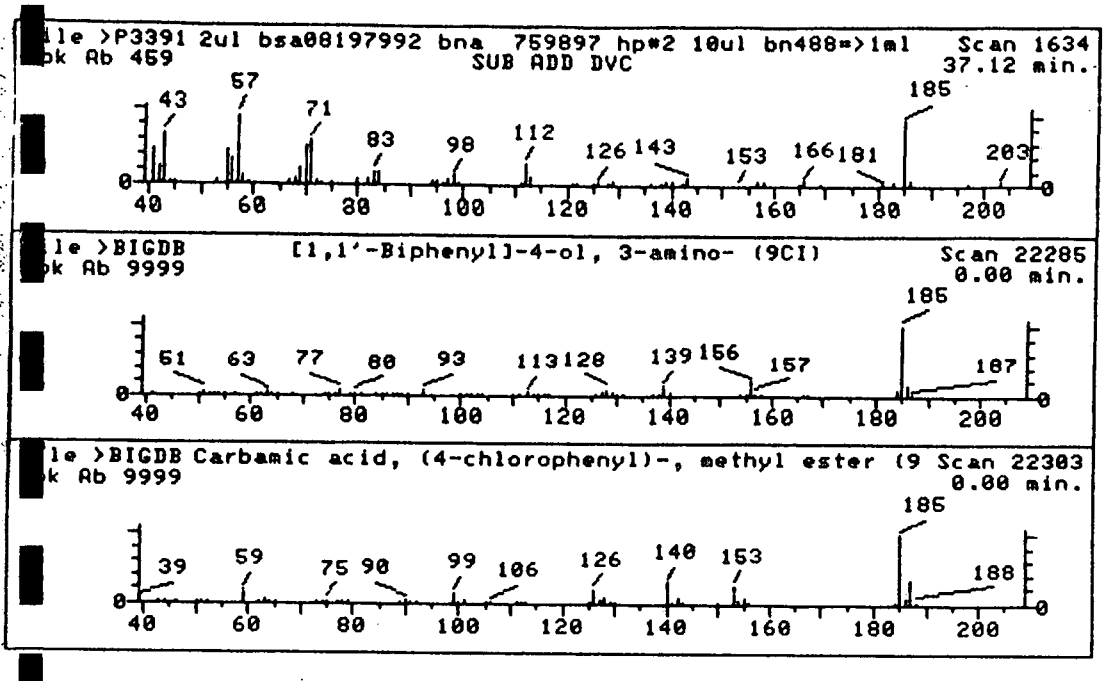
Area = 87490.00 Tentative Concentration is 51.00

1.	1,13-Tetradecadiene (8CI9CI)	194	C14H26
2.	9-Octadecen-1-ol, (Z)- (8CI9CI)	268	C18H36O
3.	1,14-Tetradecanediol (8CI9CI)	230	C14H30O2
4.	Cyclododecanol (8CI9CI)	184	C12H24O
5.	Cyclododecene, (E)- (8CI9CI)	166	C12H22
6.	1,12-Tridecadiene (8CI9CI)	180	C13H24
7.	1,12-Dodecanediol (8CI9CI)	202	C12H26O2

Sample file: >P3391 Spectrum #: 1249

Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	89	21964498	8126	"BIGDB	117	11	2	0	89	5	66	60
2.	71	143282	5546	"BIGDB	96	72	2	0	57	12	38	30



Unknown #,8
ea = 12859.00 Tentative Concentration is 8.00

1. [1,1'-Biphenyl]-4-ol, 3-amino- (9CI) 185 C12H11NO
2. Carbamic acid, (4-chlorophenyl)-, methyl ester (9CI) 185 C8H8ClNO2

ample file: >P3391 Spectrum #: 1634
earch speed: 1 Tilting option: N No. of ion ranges searched: 48

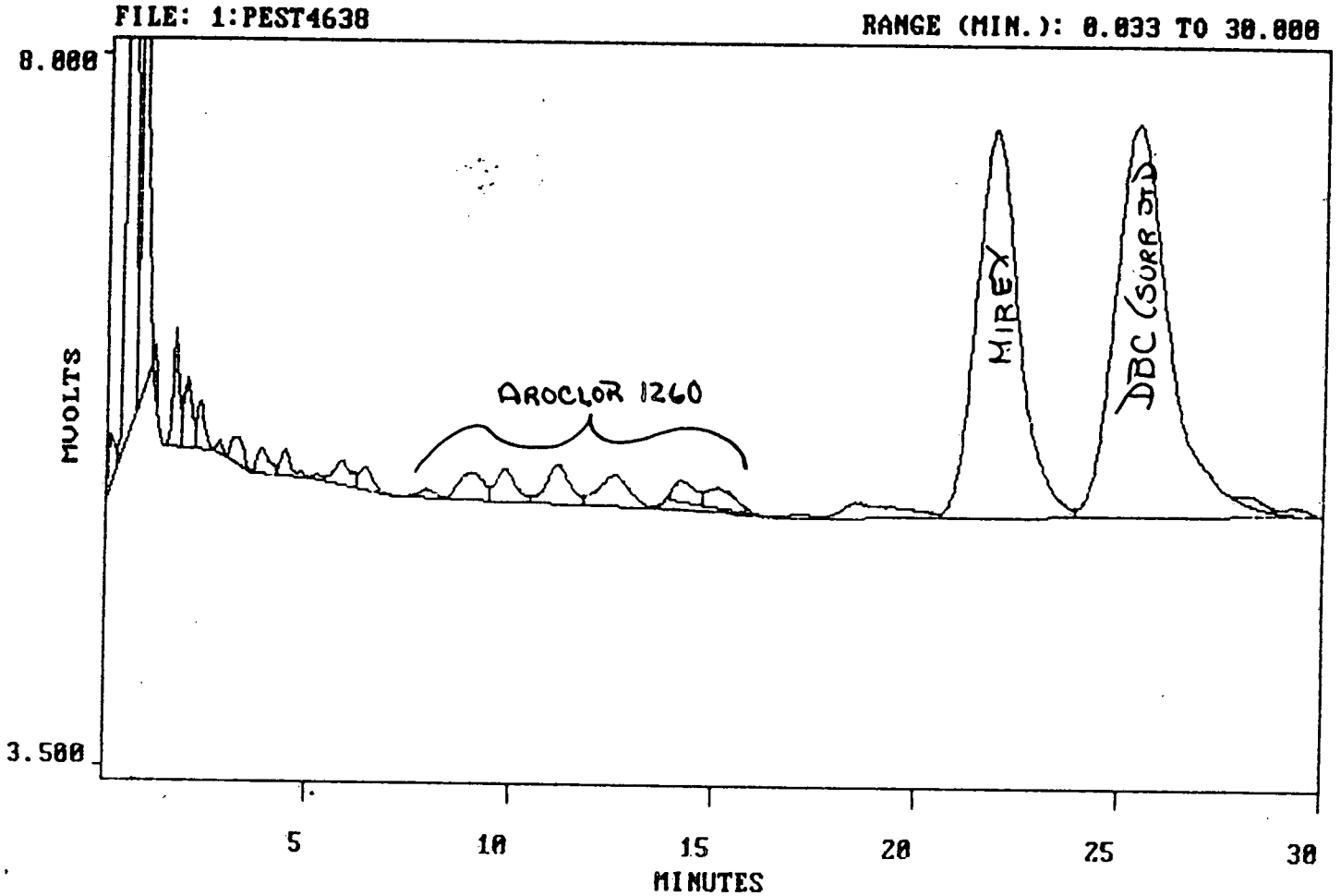
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	1134367	22285	"BIGDB	25	83	3	0	95	50	7	13

BSA08197992

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:11:40:21 Date:THU 10 SEP 87

Time:08:26:37 Date:THU 10 SEP 87
Method:PEST1



Channel #.....4 Time:08:57:16 Date:THU 10 SEP 87
Run #28 of 50

Sample name.....
Data file.....DAT351:PEST4638
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....08:26:37 Acq. date....THU 10 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..26
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.575	LINDANE	0	
3.393	delta-BHC	0	
7.139	ENDOSULFAN I	0	
8.208	P,P'-DDE	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	
16.676	ENDRIN ALDEHYDE	0	
22.759	MIREX (STD.)	0	S
27.978	DBC/METHOX/END.K	0	

Ronarell 9/17/87

==========

AREA PERCENT REPORT

==========

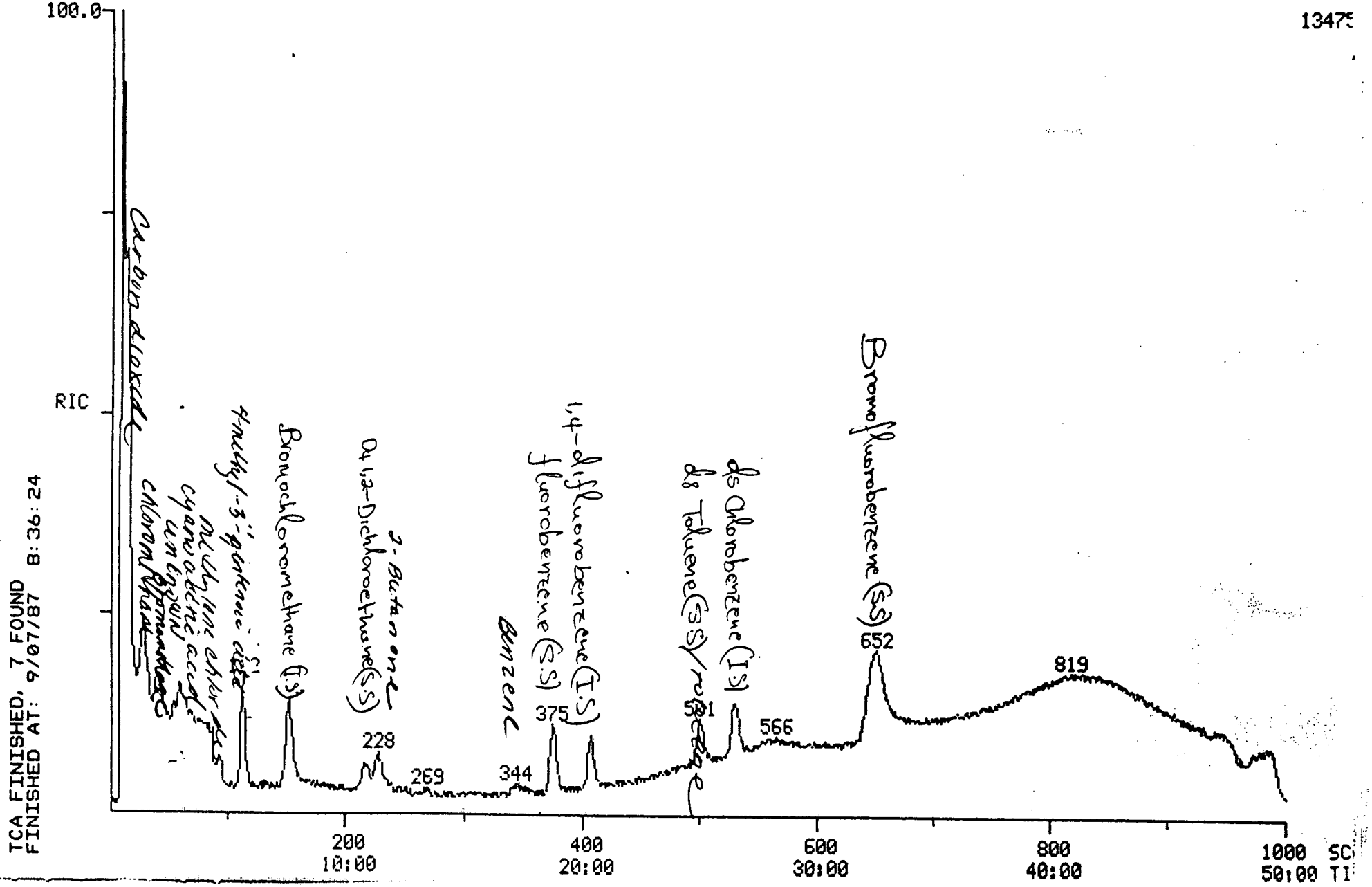
Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.136						
2	0.501			0.122	3905	333	BV
3	0.849			81.908	2628663	587994	VV
4	1.190			1.506	48341	4396	VB

5	1.683		0.250	8023	815	BV
6	1.998	~~alpha-BHC~~ MLL	0.203	6509	466	VV
7	2.328		0.120	3867	319	VB
8	2.805	~~beta-BHC~~ MLL	0.024	776	96	BB
9	3.150	~~HEPTACHLOR~~ MLL	0.113	3618	167	BB
10	3.830	~~ALDRIN~~ MLL	0.096	3082	159	BV
11	4.404		0.086	2773	169	VB
12	5.193		0.017	537	30	BV
13	5.810	~~HEPTACHLOR EPOXI~~ MLL	0.136	4349	156	VV
14	6.382		0.101	3226	142	VB
15	7.904		0.049	1568	55	BB
16	8.962	~~DIELDRIN~~	0.225	7207	172	BV
17	9.803		0.210	6747	202	VV
18	11.082		0.304	9755	243	VV
19	12.492	~~P,P'-DDD OR ENDO II~~ MLL	0.314	10071	198	VB
20	14.164	AROCHLOR 1260	0.174	5591	142	BV
21	15.060	~~P,P'-DDT~~ MLL	0.202	6498	131	VB
22	17.183		0.026	846	17	BV
23	18.517		0.290	9302	94	VV
24	21.849	MIREX (STD)	5.806	186343	2556	VV
25	25.419	DBC (SURR STD)	7.540	241991	2587	VE
26	29.337		0.151	4845	48	EB
TOTALS			100.000	3209274		

1.0 ug/l DBC SPIKED IN
97% REC

III. 2. Reporting Package for NJDEP # Soil 1

RIC
08/28/87 13:59:00
DATA: PU7435 #1
CALI: PU7435 #2
SCANS 1 TO 1000
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



TCA FINISHED, 7 FOUND
FINISHED AT: 9/07/87 8:36:24

1347

QUANTITATION REPORT FILE: PU7435

DATA: PU7435.TI
03/28/87 13:59:00
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

No	Name
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	152	7:36	1	1.000	A BV	52705.	30.000 UG/L	2.01
2	65	217	10:51	1	1.428	A BV	94417.	26.727 UG/L	1.79
3	NOT FOUND								
4	94	3240	1:36	1	0.211	A BV	12382	1,647 UG/L	0.11
5	NOT FOUND								
6	64	58	2:54	1	0.382	A*BB	1820.	0.681 UG/L	0.05
7	84	93	4:39	1	0.612	A VB	34402.	7.424 UG/L	0.50
8	NOT FOUND								
9	76	82	4:06	1	0.539	A*BB	1234.	31.341 UG/L	2.10
10	96	145	7:15	1	0.954	A*BB	2889.	0.782 UG/L	0.05
11	63	172	8:36	1	1.132	A*BB	3810.	0.824 UG/L	0.06
12	96	189	9:27	1	1.243	A BV	1914.	0.822 UG/L	0.06
13	83	200	10:00	1	1.316	A BB	5284.	0.767 UG/L	0.05
14	62	222	11:06	1	1.461	A BB	1820.	0.244 UG/L	0.02
15	101	132	6:36	1	0.868	A BV	3565.	0.848 UG/L	0.06
16	85	54	2:42	1	0.355	A*BB	1263.	21.738 UG/L	1.46
17	56	148	7:24	1	0.974	A*BV	3531.	371.259 UG/L	24.88
18	53	152	7:36	1	1.000	A*BV	713.	168.761 UG/L	11.31
19	114	407	20:21	19	1.000	A BB	210225.	30.000 UG/L	2.01

254

20	NOT FOUND									
21	97	223	11:09	19	0.548	A*BB	1026.	0.856 UG/L	0.05	
22	117	228	11:24	19	0.560	A*BB	567.	0.767 UG/L	0.05	
23	43	252	12:36	19	0.619	A*BB	24007.	18.991 UG/L	1.27	
24	83	263	13:09	19	0.646	A BB	856.	0.283 UG/L	0.02	
25	63	286	14:18	19	0.703	A*BV	1659.	1.026 UG/L	0.07	
26	75	316	15:48	19	0.776	A*VV	2141.	1.180 UG/L	0.08	MIG IDENT
27	NOT FOUND									
28	129	344	17:12	19	0.845	A BB	2721.	0.948 UG/L	0.06	
29	97	310	15:30	19	0.762	A*BB	1945.	0.620 UG/L	0.04	
30	78	305 314	15:15	19	0.749	A*BB	22961 3426.	0.360 UG/L	0.02	530 B
31	75	328	16:24	19	0.806	A BV	1717.	0.683 UG/L	0.05	
32	63	346	17:18	19	0.850	A*BV	4438.	0.550 UG/L	0.04	
33	173	411	20:33	19	1.010	A*BB	876.	0.539 UG/L	0.04	
34	117	531	26:33	34	1.000	A BB	158599.	30.000 UG/L	2.01	
35	43	461	23:03	34	0.868	A*VB	36968.	514.437 UG/L	34.48	
36	43	461	23:03	34	0.868	A VB	10876.	40.463 UG/L	2.71	
37	164	493	24:39	34	0.928	A BB	527.	0.223 UG/L	0.01	
38	83	496	24:48	34	0.934	A BB	656.	0.136 UG/L	0.01	
39	92	506	25:18	34	0.953	A BV	16646.	2.641 UG/L	0.18	600
40	112	511	25:33	34	0.962	A*VV	3554.	0.546 UG/L	0.04	
41	106	529	26:27	34	0.996	A*VB	2091.	0.659 UG/L	0.04	
42	104	605	30:15	34	1.139	A BB	2882.	49.706 UG/L	3.33	
43	106	622	31:06	34	1.171	A*BV	2331.	31.322 UG/L	2.10	
44	106	622	31:06	34	1.171	A*BV	2331.	62.645 UG/L	4.20	
45	146	805	40:15	34	1.516	A BB	1612.	0.359 UG/L	0.02	
46	146	833	41:39	34	1.569	A BB	1561.	0.370 UG/L	0.02	
47	146	842	42:06	34	1.586	A*BB	1757.	0.342 UG/L	0.02	
48	96	375	18:45	34	0.706	A BB	313999.	32.448 UG/L	2.17	
49	95	648	32:24	34	1.220	A*BB	139161.	25.545 UG/L	1.71	

Non Targeted Compounds

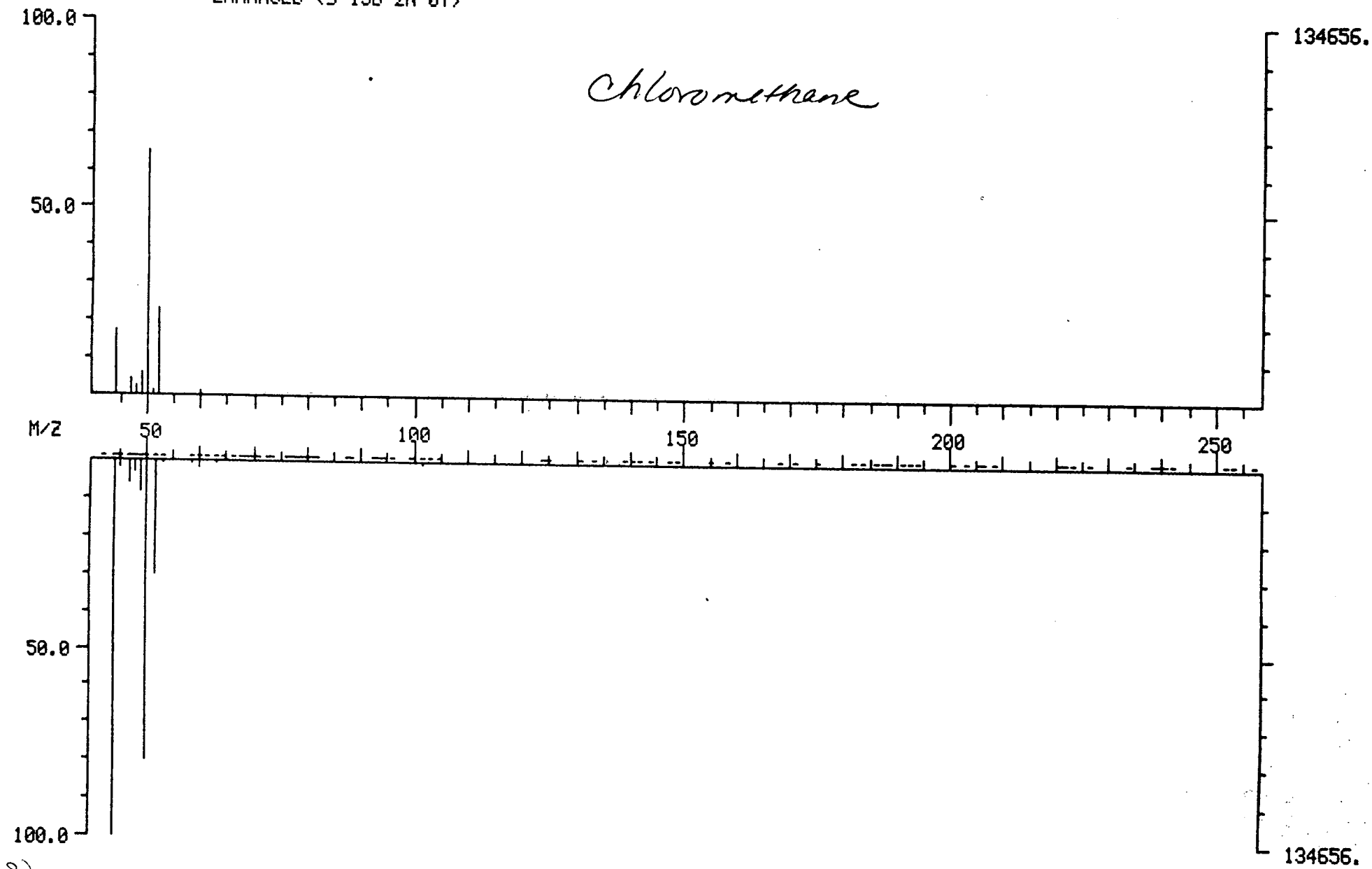
	Scan #	ref. Pk	area	Amt ug/kg
1	10	1	9844600	61000 J,B
2				
3	59	1	327386	2000 J
4	84	1	359918	2200 J
5	112	1	890880	5500 J
6	228	1	574795	3600 J

DUAL MASS SPECTRUM
08/28/87 13:59:00 + 1:24
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 #28
CALI: PU7435 #2

BASE M/Z: 50/ 44
RIC: 164863./ 318975.

Chloromethane

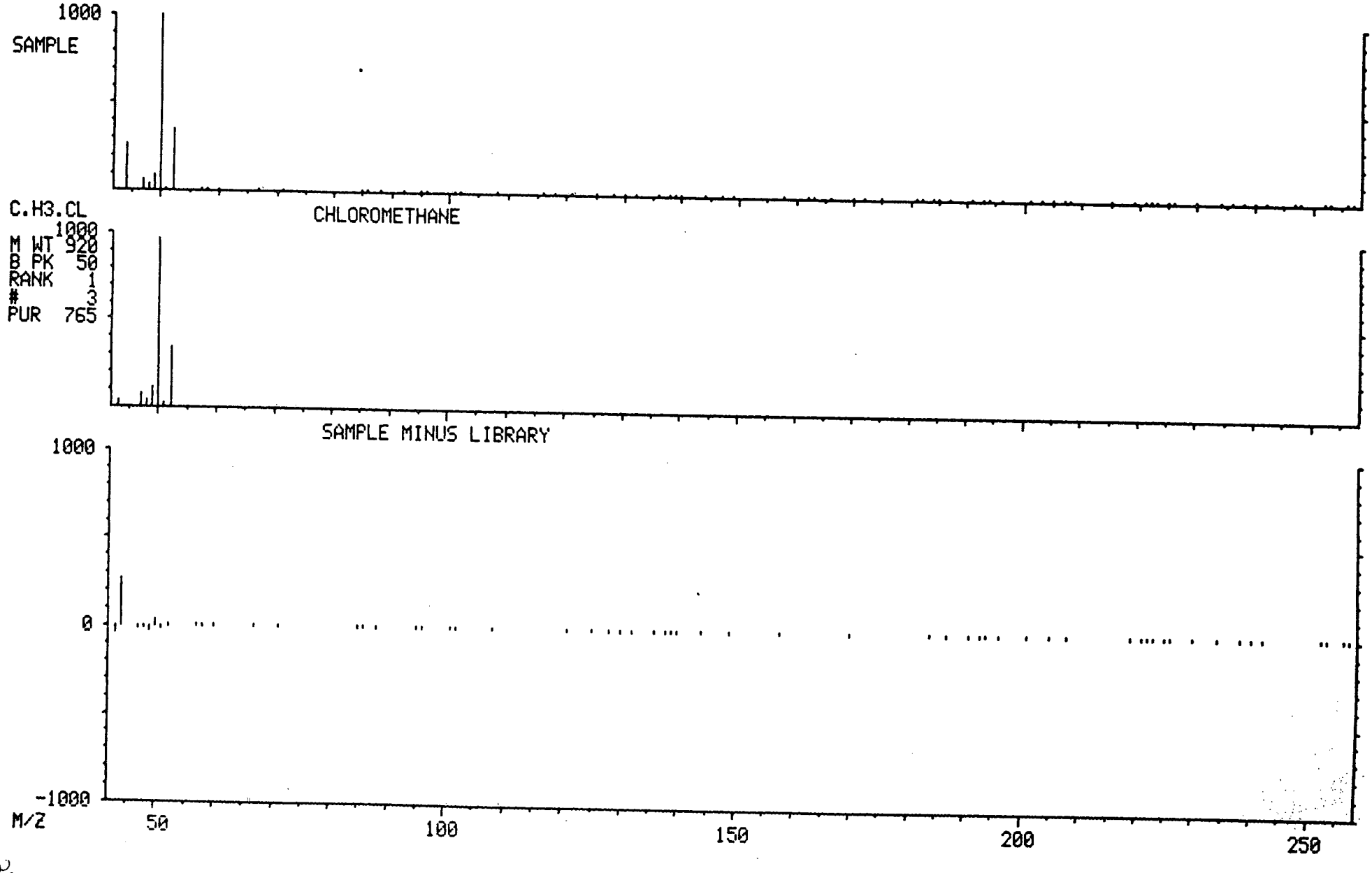


256

LIBRARY SEARCH
08/28/87 13:59:00 + 1:24
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 # 28
CALI: PU7435 # 2

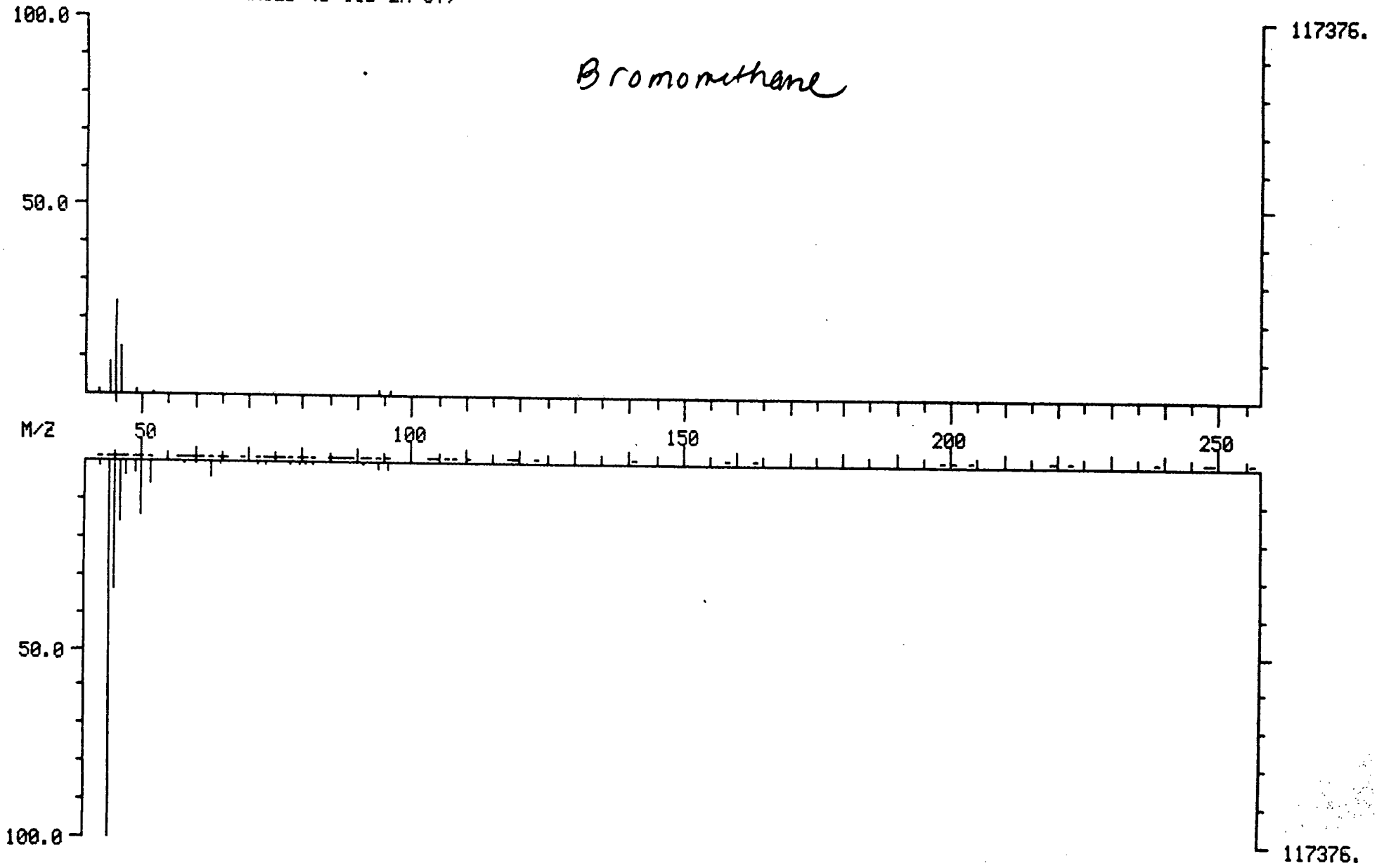
BASE M/Z: 50
RIC: 164607.



DUAL MASS SPECTRUM
08/28/87 13:59:00 + 2:00
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 #40
CALI: PU7435 #2

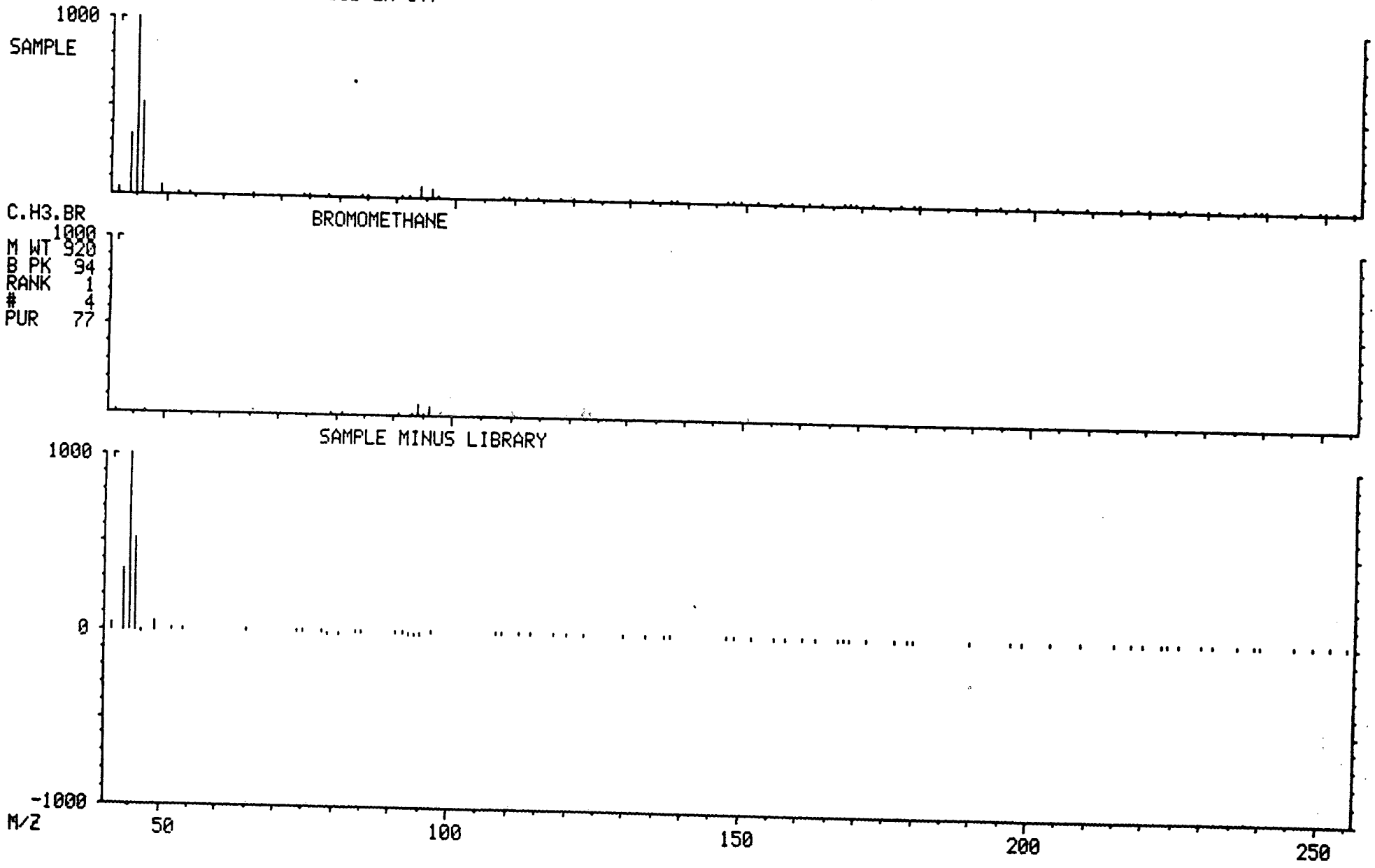
BASE M/Z: 45/ 44
RIC: 63615./ 234751.



LIBRARY SEARCH
08/28/87 13:59:00 + 2:00
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 # 40
CALI: PU7435 # 2

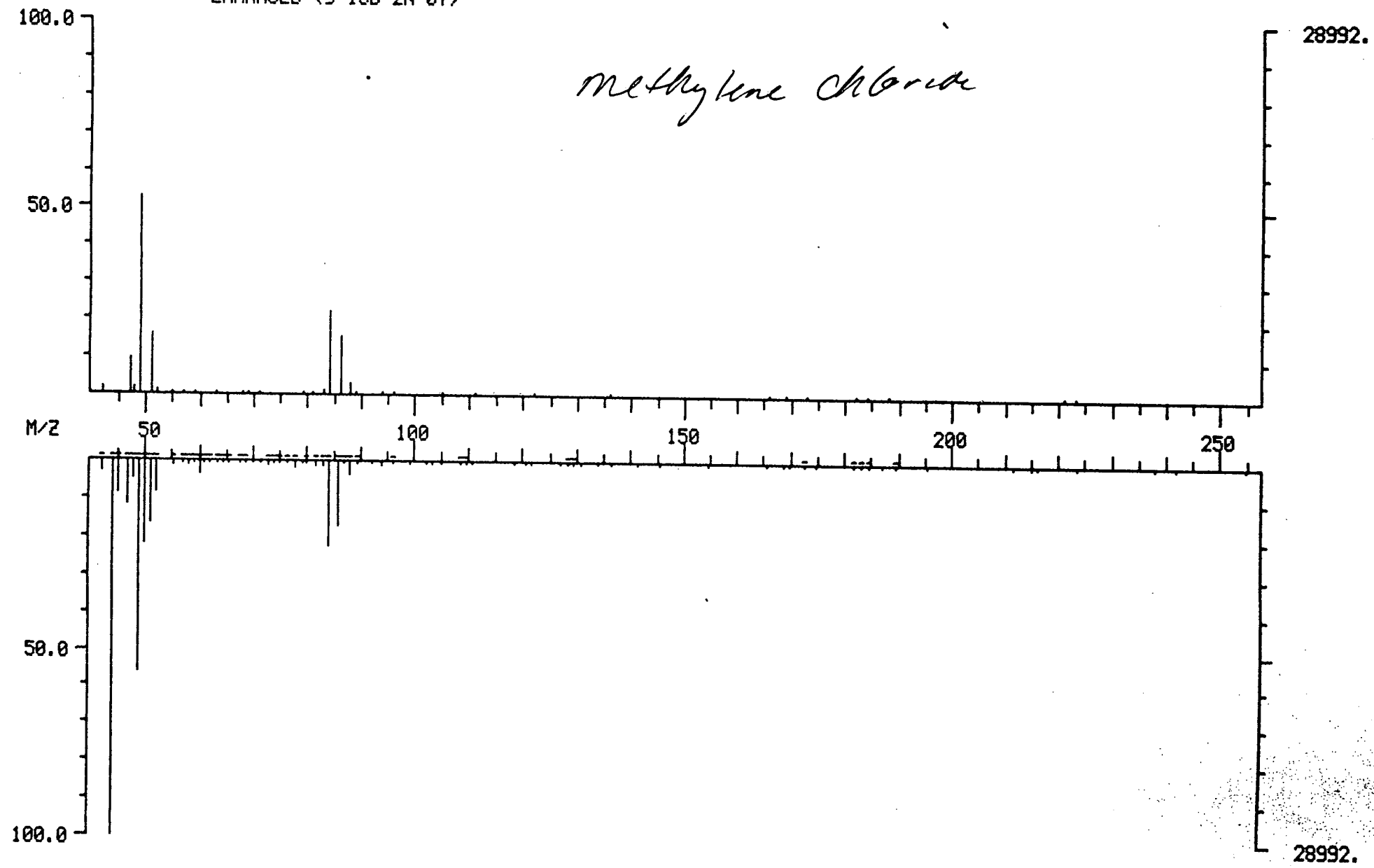
BASE M/Z: 45
RIC: 63615.



DUAL MASS SPECTRUM
08/28/87 13:59:00 + 4:39
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 #93
CALI: PU7435 #2

BASE M/Z: 49/ 44
RIC: 41599./ 91135.

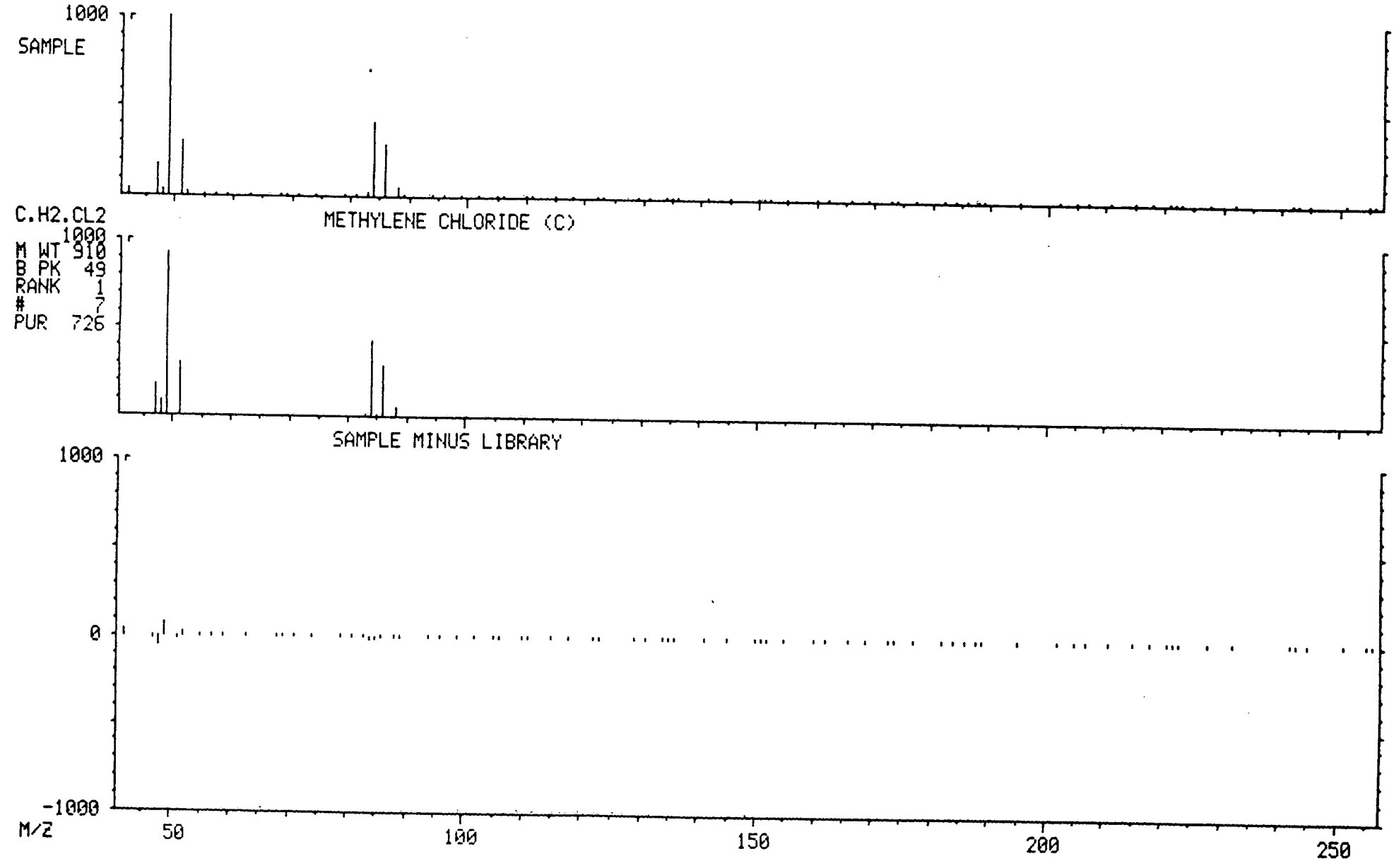


260

LIBRARY SEARCH
08/28/87 13:59:00 + 4:39
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 # 93
CALI: PU7435 # 2

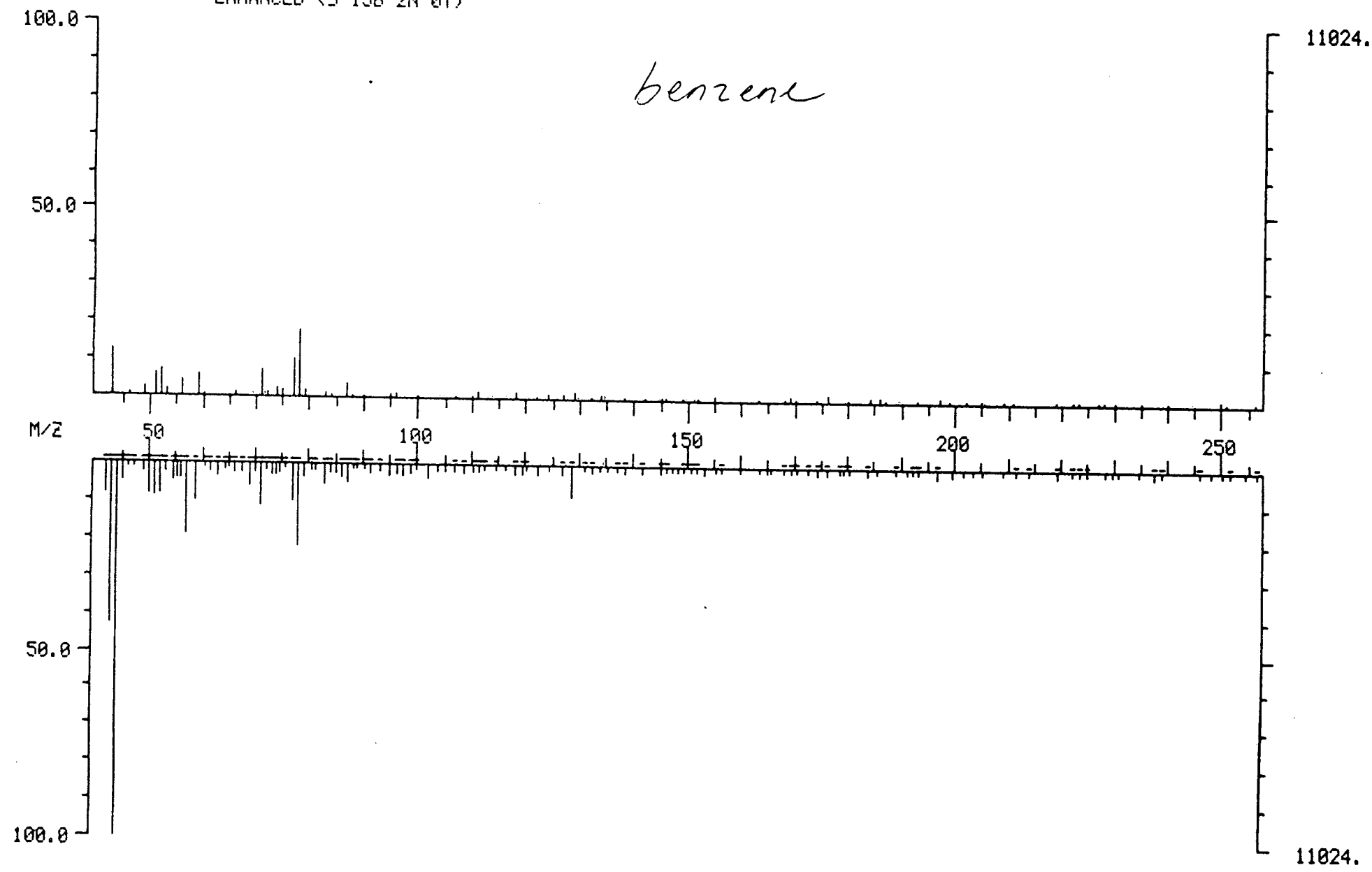
BASE M/Z: 49
RIC: 41407.



DUAL MASS SPECTRUM
08/28/87 13:59:00 + 17:12
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 #344
CALI: PU7435 #2

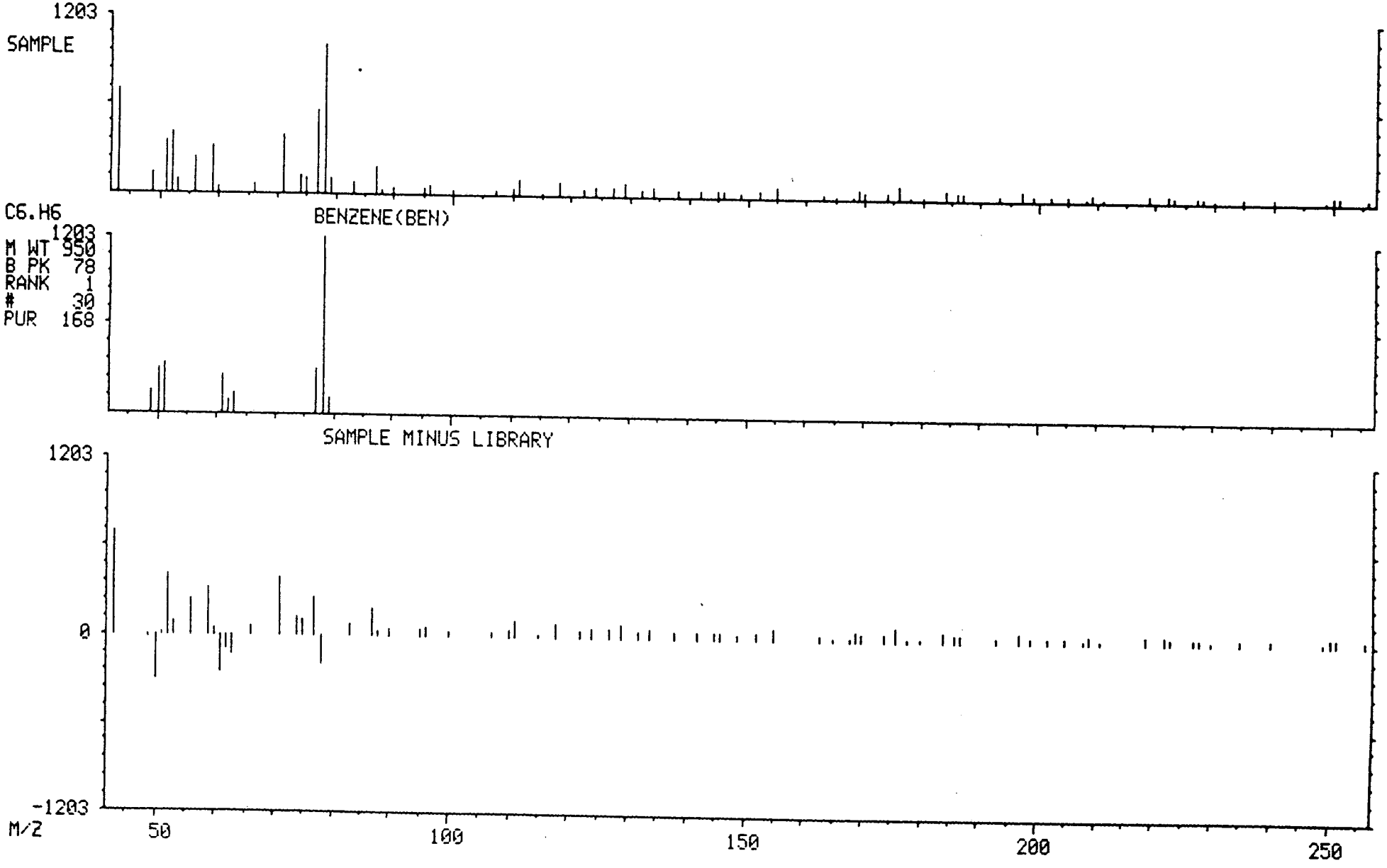
BASE M/Z: 78/ 44
RIC: 14511./ 52031.



LIBRARY SEARCH
08/28/87 13:59:00 + 17:12
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 # 344
CALI: PU7435 # 2

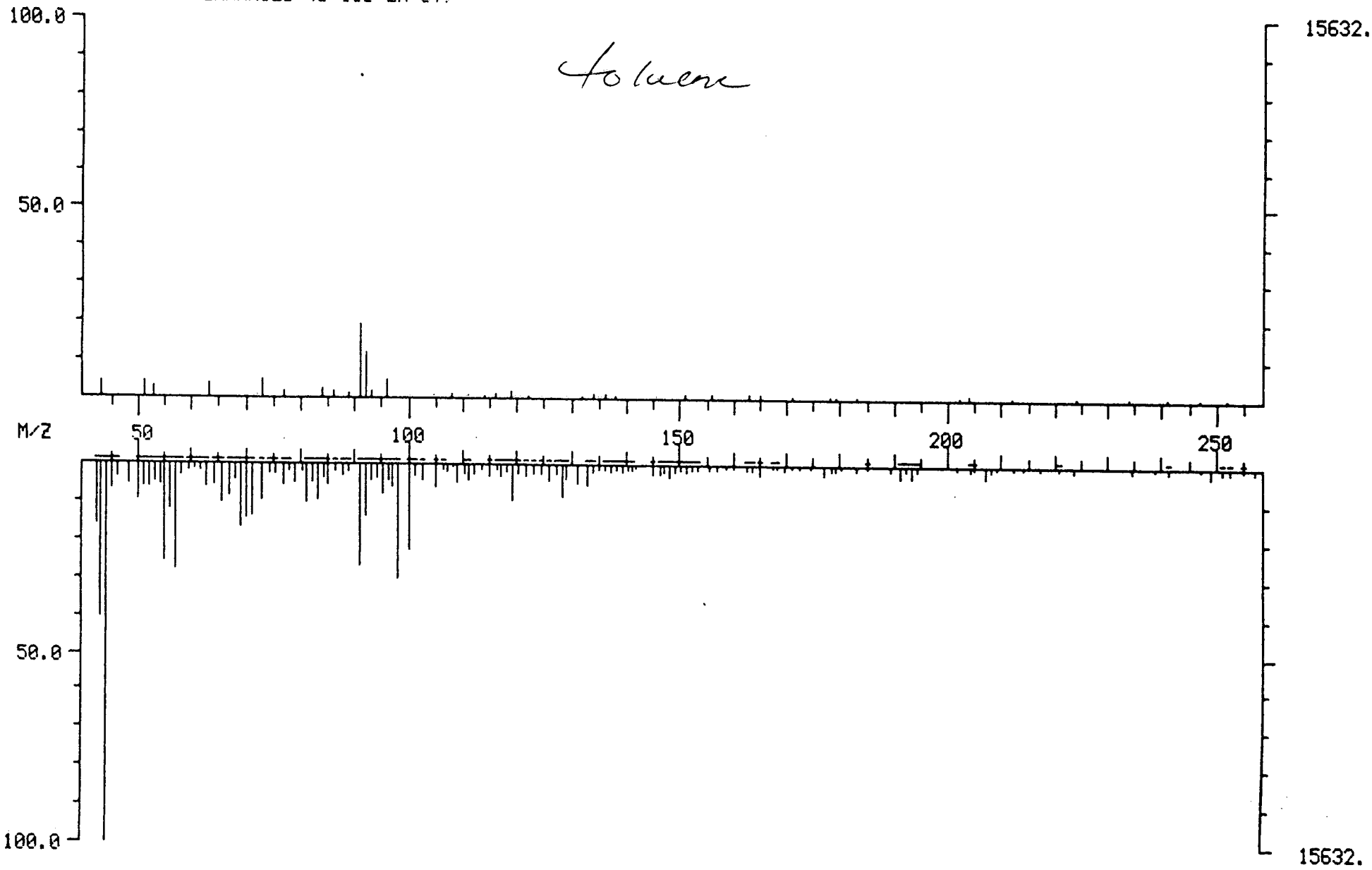
BASE M/Z: 78
RIC: 14239.



DUAL MASS SPECTRUM
08/28/87 13:59:00 + 25:18
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 #506
CALI: PU7435 #2

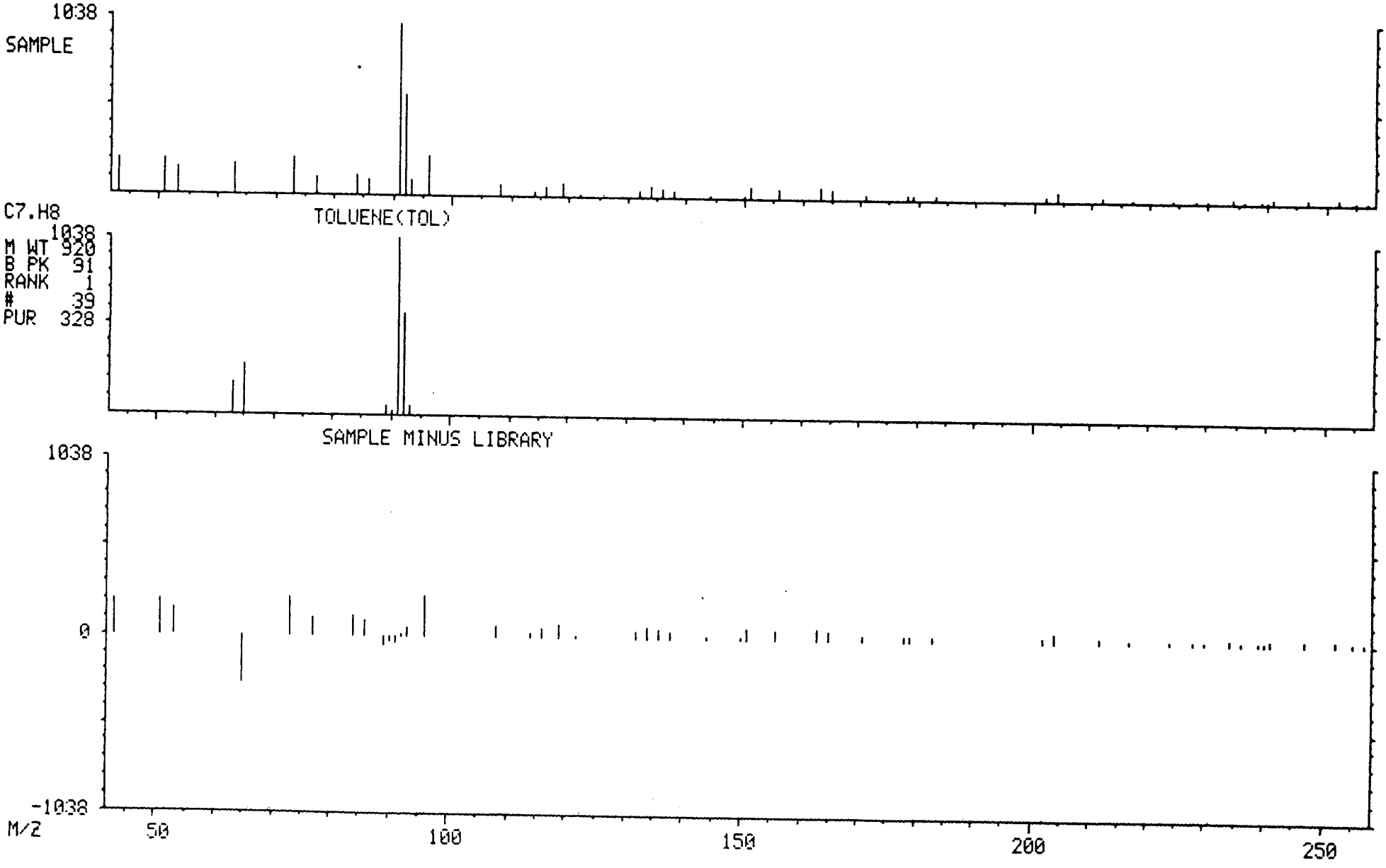
BASE M/Z: 91/ 44
RIC: 13567./ 110335.



LIBRARY SEARCH
08/28/87 13:59:00 + 25:18
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 # 506
CALI: PU7435 # 2

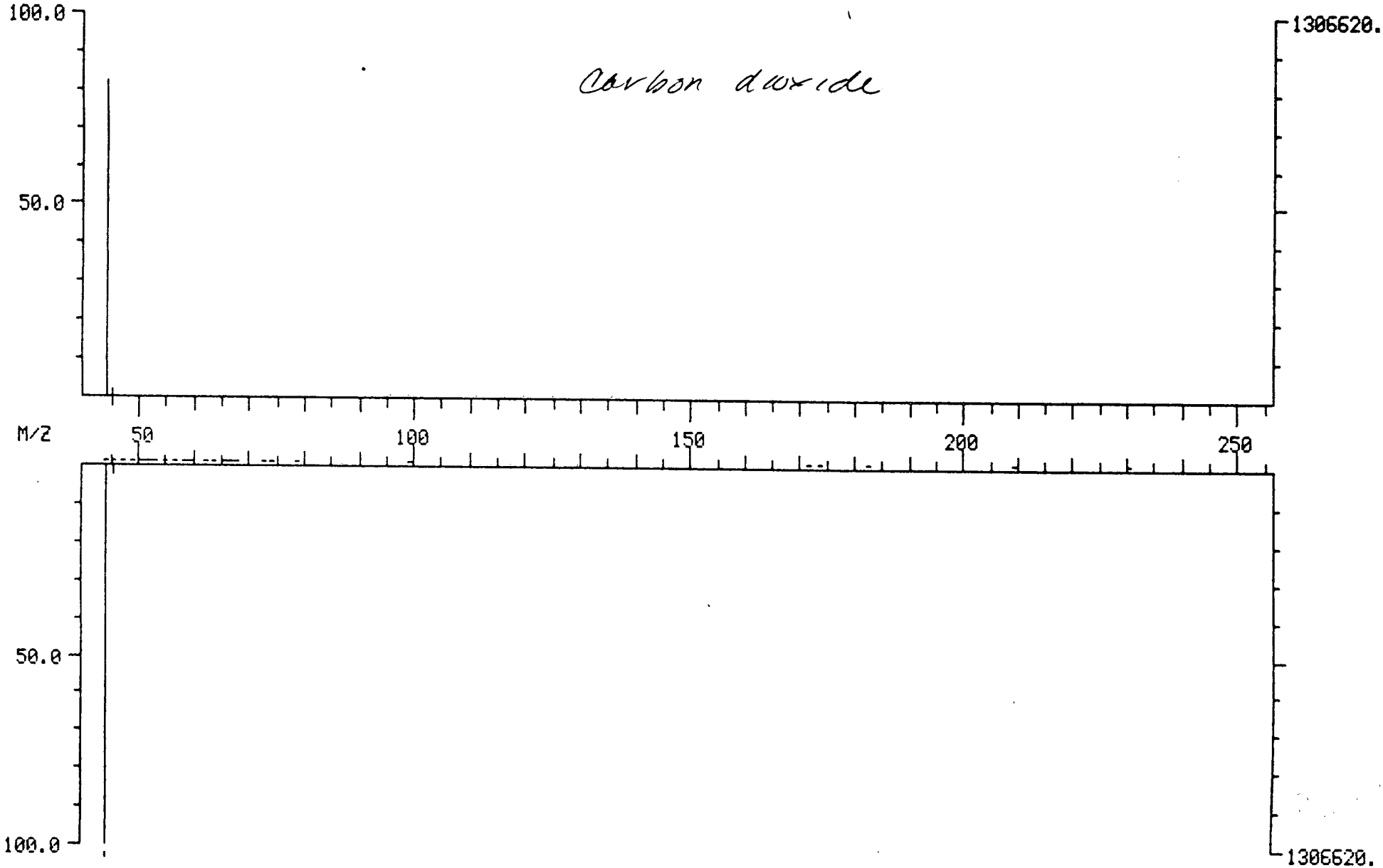
BASE M/Z: 91
RIC: 13375.



DUAL MASS SPECTRUM
08/28/87 13:59:00 + 0:30
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 #10
CALI: PU7435 #2

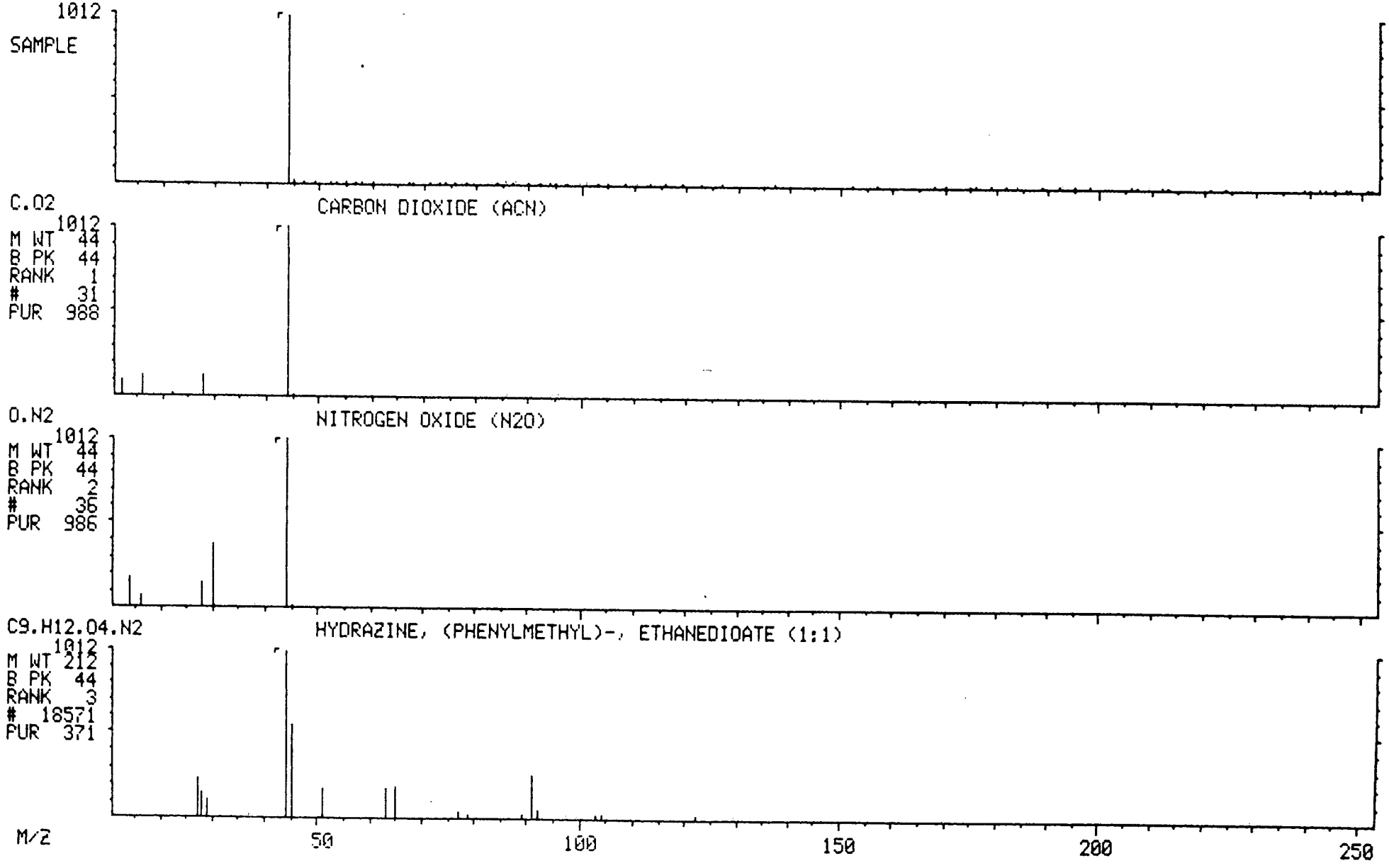
BASE M/Z: 44/ 44
RIC: 1101820./ 1333390.



LIBRARY SEARCH
08/28/87 13:59:00 + 0:30
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 # 10
CALI: PU7435 # 2

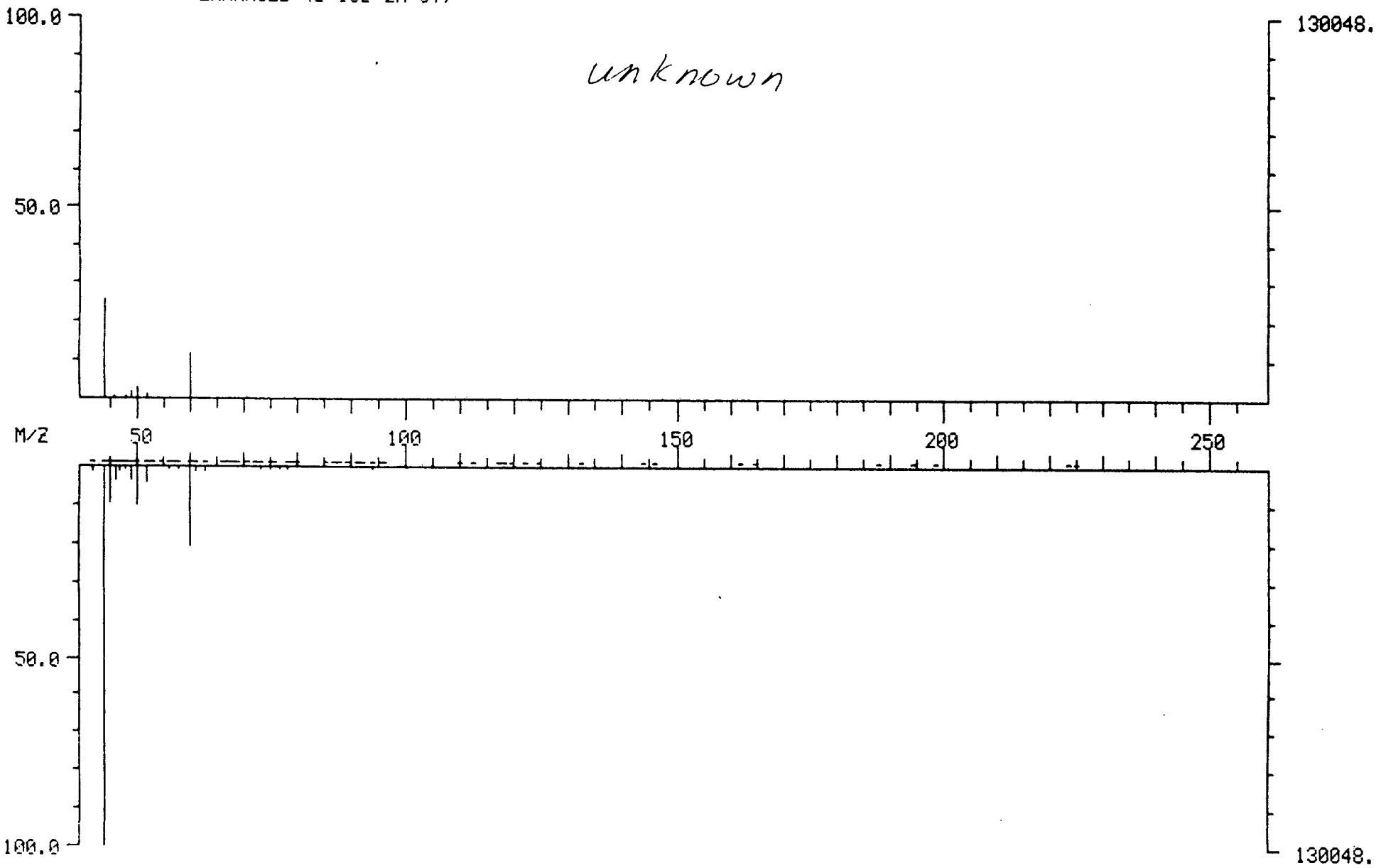
BASE M/Z: 44
RIC: 1101820.



DUAL MASS SPECTRUM
08/28/87 13:59:00 + 2:57
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5ML$ MEOH)=> 5ML$ H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 #59
CALI: PU7435 #2

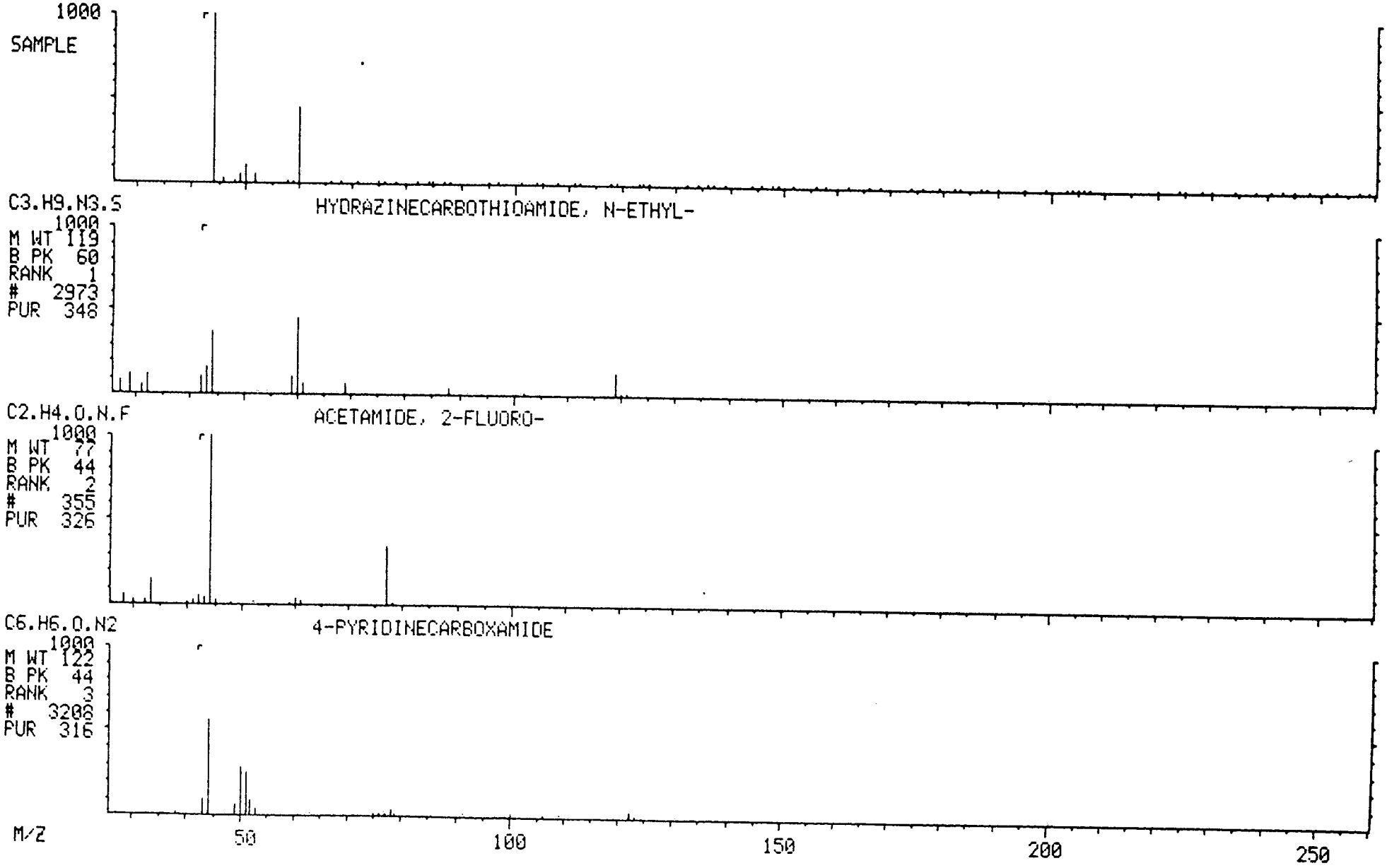
BASE M/Z: 44/ 44
RIC: 63423./ 217343.



LIBRARY SEARCH
08/28/87 13:59:00 + 2:57
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 # 59
CALI: PU7435 # 2

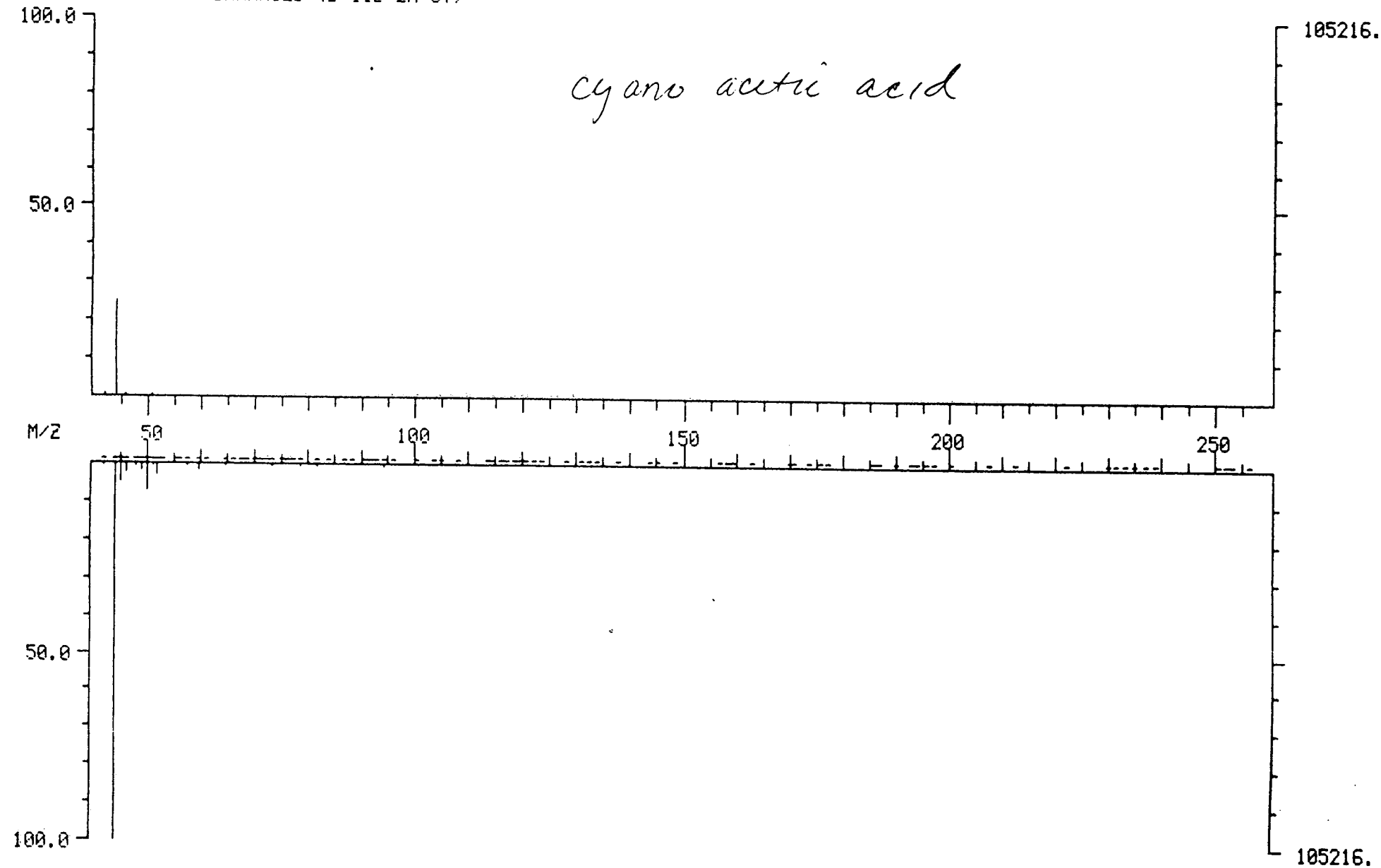
BASE M/Z: 44
RIC: 62975.



DUAL MASS SPECTRUM
08/28/87 13:59:00 + 4:12
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 #84
CALI: PU7435 #2

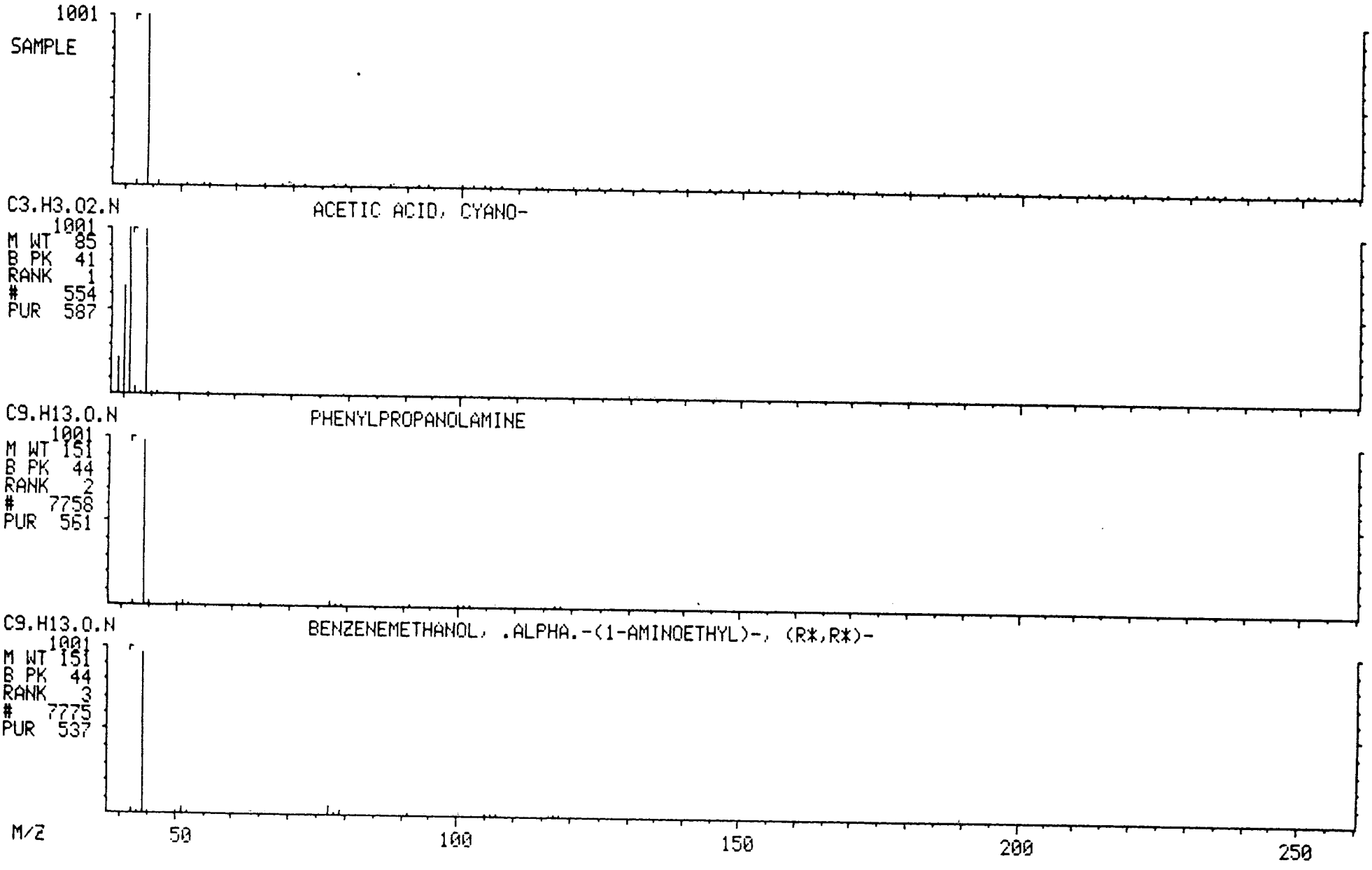
BASE M/Z: 44/ 44
RIC: 33471./ 150015.



LIBRARY SEARCH
08/28/87 13:59:00 + 4:12
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 # 84
CALI: PU7435 # 2

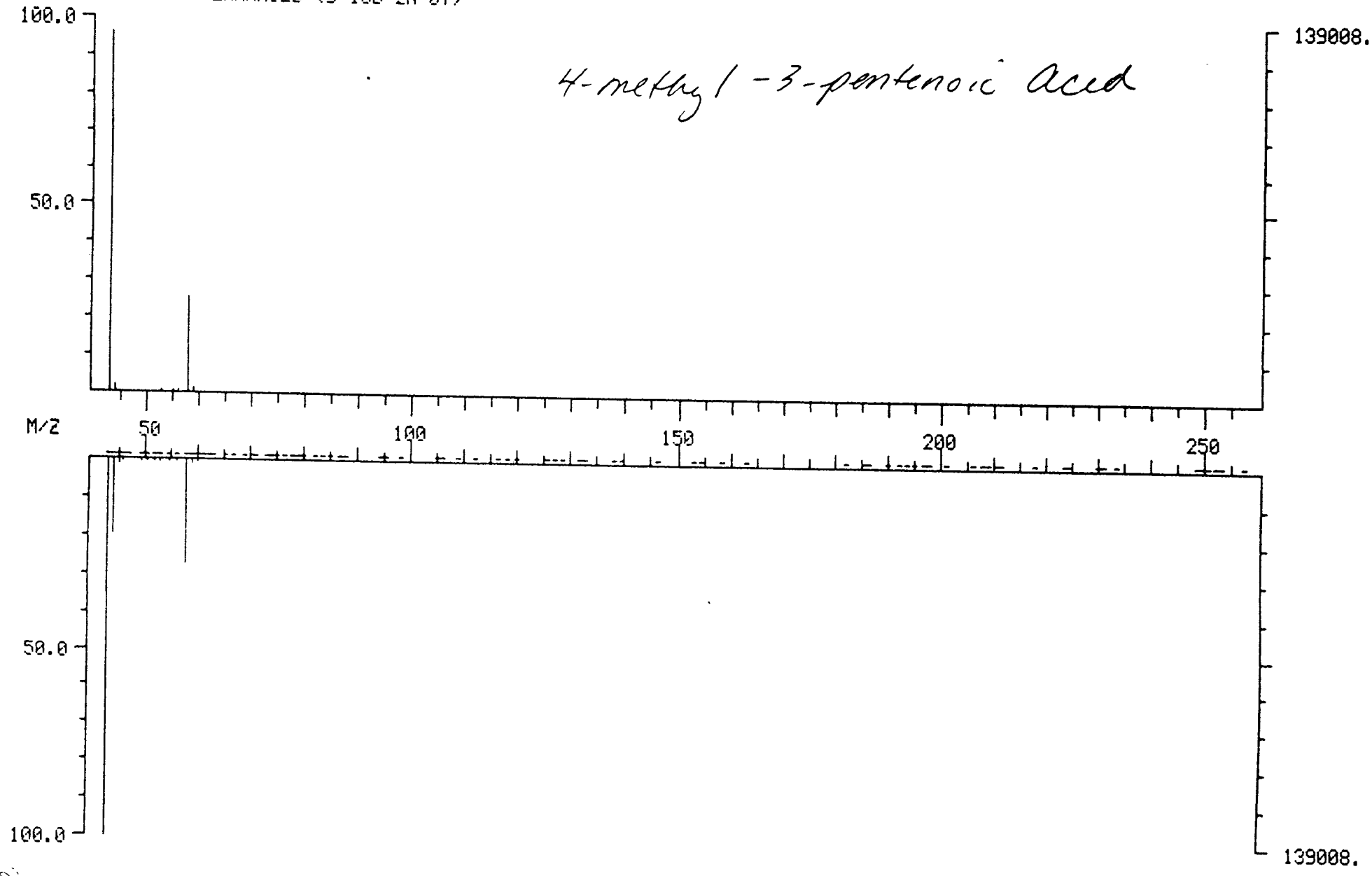
BASE M/Z: 44
RIC: 33407.



DUAL MASS SPECTRUM
08/28/87 13:59:00 + 5:36
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 #112
CALI: PU7435 #2

BASE M/Z: 43/ 43
RIC: 177919./ 226559.

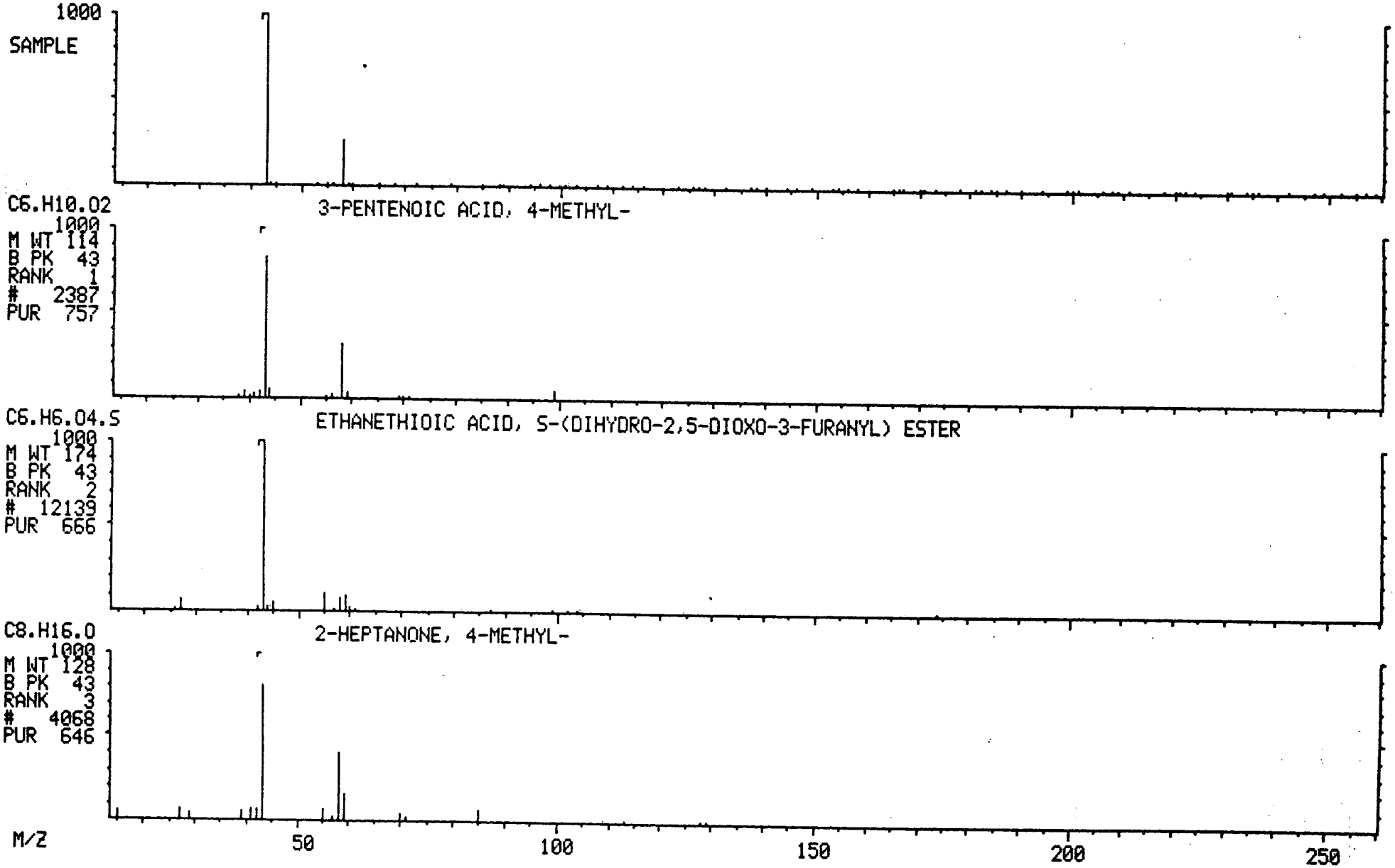


4-methyl-3-pentenoic acid

LIBRARY SEARCH
08/28/87 13:59:00 + 5:36
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 # 112
CALI: PU7435 # 2

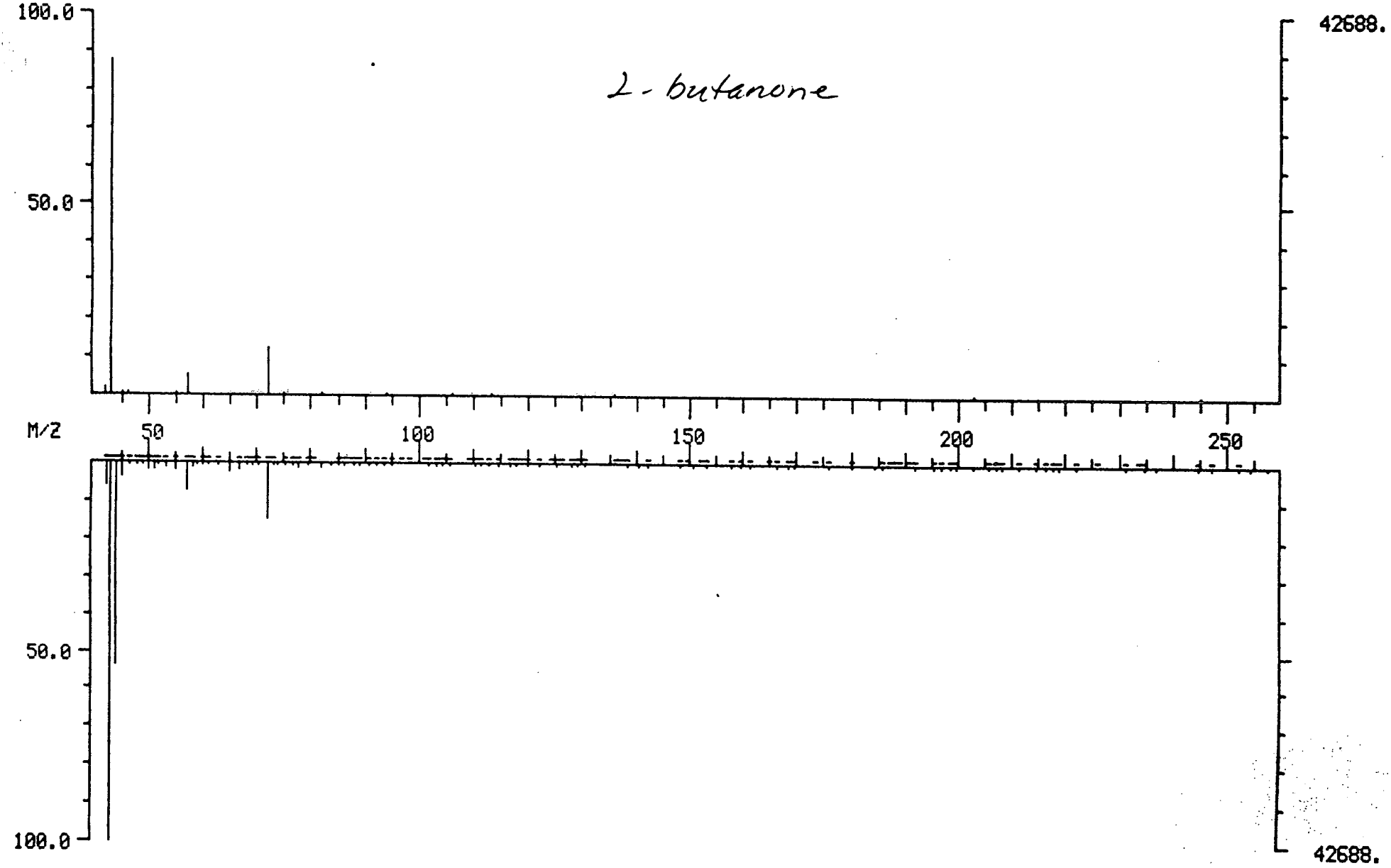
BASE M/Z: 43
RIC: 177407.



DUAL MASS SPECTRUM
08/28/87 13:59:00 + 11:24
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 #228
CALI: PU7435 #2

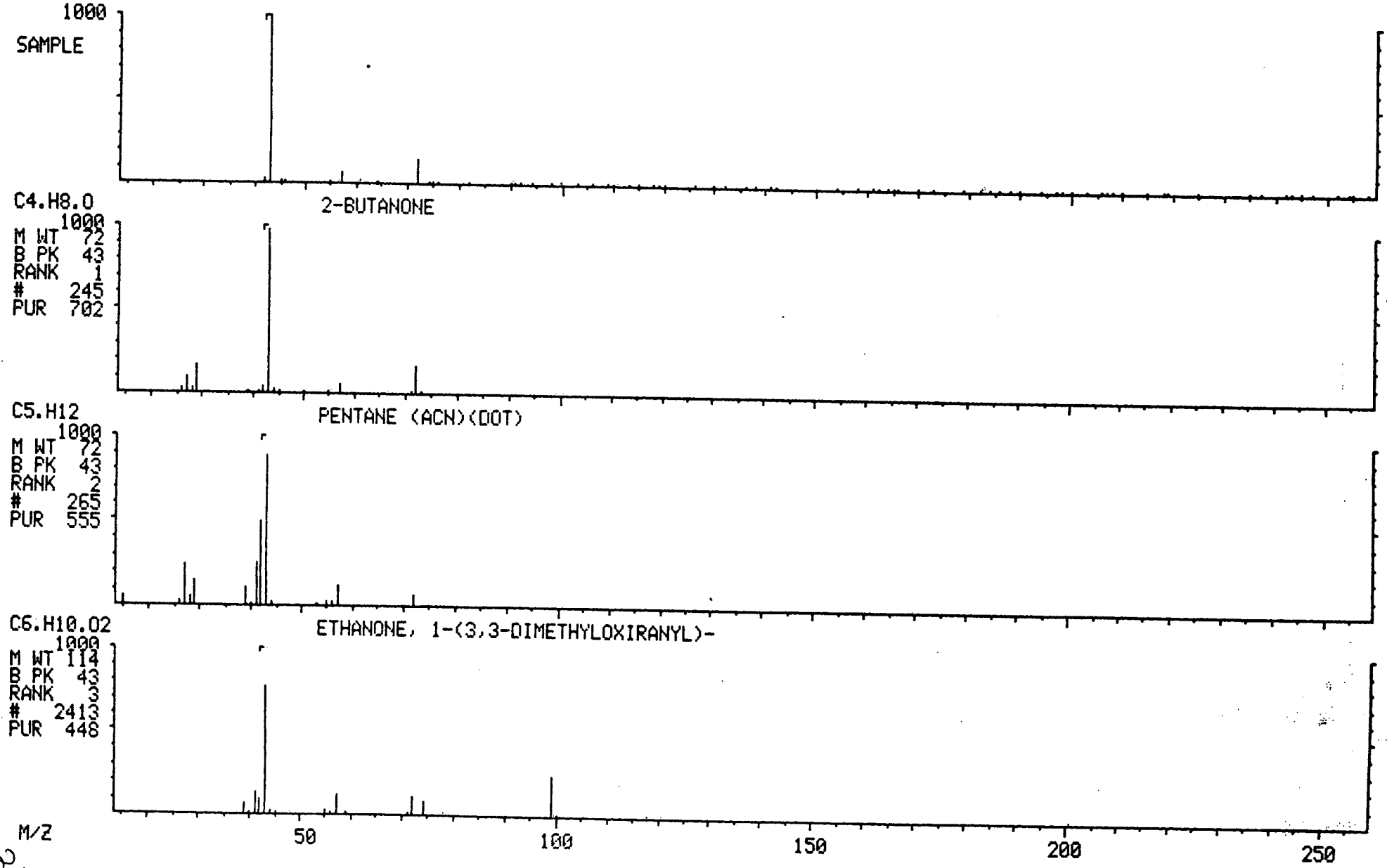
BASE M/Z: 43/ 43
RIC: 52415./ 102783.



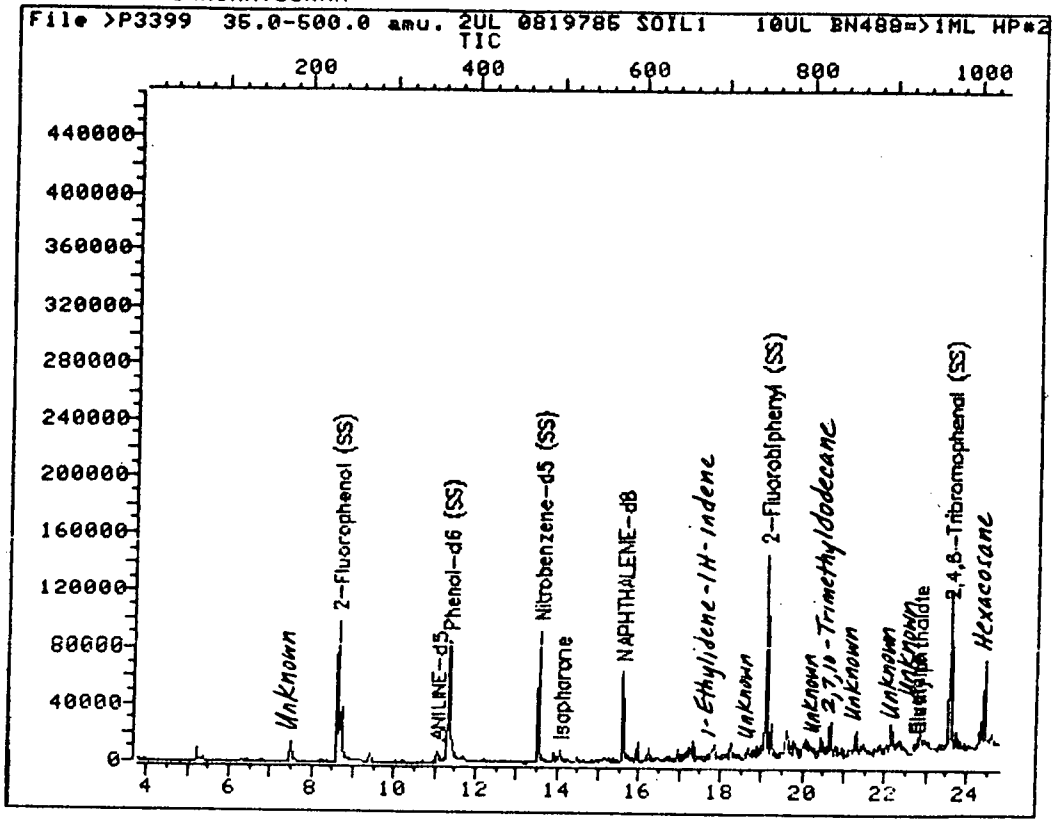
LIBRARY SEARCH
08/28/87 13:59:00 + 11:24
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=> 5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7435 # 228
CALI: PU7435 # 2

BASE M/Z: 43
RIC: 51839.



TOTAL ION CHROMATOGRAM



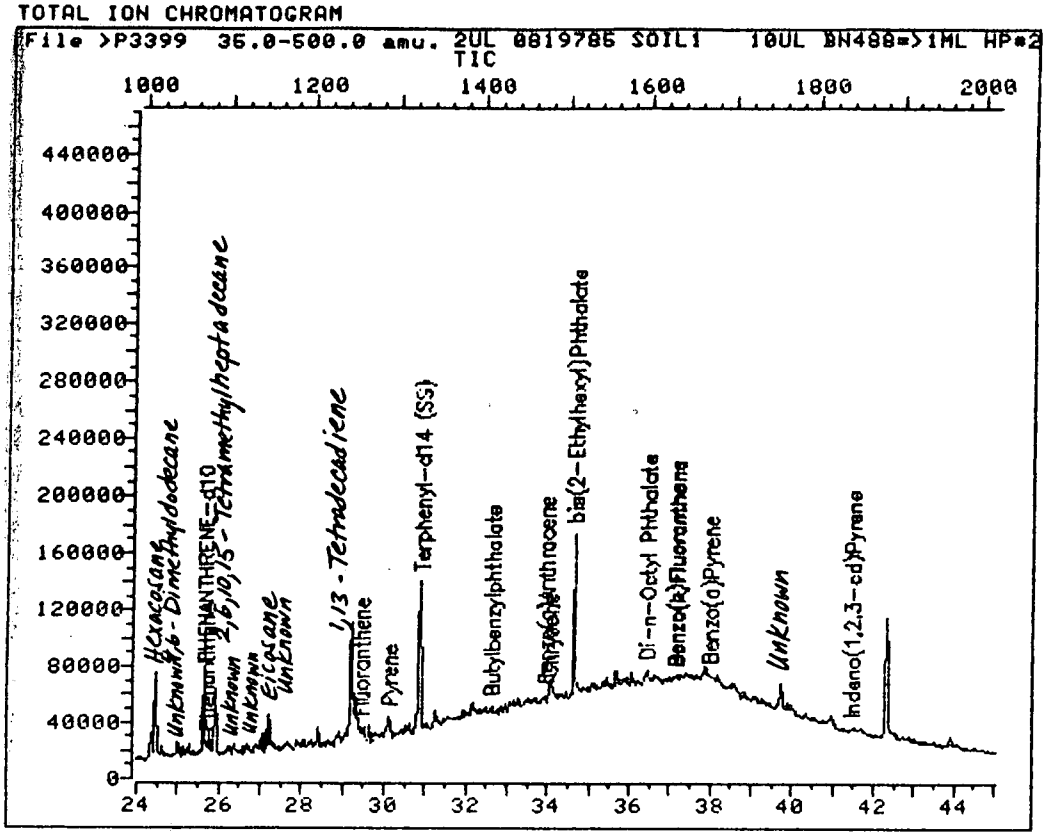
Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

Operator ID: GLENN
Quant Time: 870910 19:20
Injected at: 870910 18:33

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

Operator ID: GLENN
Quant Time: 870910 19:20
Injected at: 870910 18:33

TIC page 2 of 2

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 870910 19:20
Output File: ^P3399::QT Injected at: 870910 18:33
Data File: >P3399::B1 Dilution Factor: 1.00000
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.05	358	10382	42.85	ug/mL	92
3)	2-Fluorophenol (SS)	8.63	239	48786	284.35	ug/mL	41
6)	Phenol-d6 (SS)	11.34	372	118863	456.43	ug/mL	91
14)	*NAPHTHALENE-d8	15.60	581	64664	41.04	ug/mL	60
15)	Nitrobenzene-d5 (SS)	13.56	481	85631	91.57	ug/mL	70
17)	Isophorone	14.07	506	11237	5.74	ug/mL	37
29)	2-Fluorobiphenyl (SS)	19.11	753	110902	115.15	ug/mL	99
37)	Diethylphthalate	22.81	934	2143	1.32	ug/mL	97
39)	Fluorene	22.75	931	1623	1.47	ug/mL	87
40)	2,4,6-Tribromophenol (SS)	23.59	972	42433	152.51	ug/mL	82
41)	*PHENANTHRENE-d10	25.64	1072	69582	41.02	ug/mL	71
47)	Phenanthrene	25.70	1075	5645	2.69	ug/mL	51
50)	Fluoranthene	29.43	1257	9473	5.36	ug/mL	79
51)	Terphenyl-d14 (SS)	30.89	1328	156100	140.34	ug/mL	42
53)	Pyrene	30.11	1290	10696	6.02	ug/mL	67
54)	Butylbenzylphthalate	32.61	1412	1522	1.20	ug/mL	79
56)	Benzo(a)Anthracene	33.93	1476	4140	2.91	ug/mL	74
57)	bis(2-Ethylhexyl)Phthalate	34.63	1510	74586	45.92	ug/mL	87
58)	Chrysene	34.03	1481	5215	3.86	ug/mL	93
59)	Di-n-Octyl Phthalate	36.44	1598	3913	1.46	ug/mL	100
60)	Benzo(b)Fluoranthene	37.12	1631	5220M	3.46	ug/mL	89
61)	Benzo(k)Fluoranthene	37.16	1633	2327M	2.34	ug/mL	87
62)	Benzo(a)Pyrene	37.98	1673	3993	2.61	ug/mL	98
63)	Indeno(1,2,3-cd)Pyrene	41.46	1842	2774	1.83	ug/mL	74

* Compound is ISTD

MS data file header from : >P3399

Sample: 2UL 0819785 SOIL1 Operator: GLENN MS 9/10/87 18:33
Misc : 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

>P3399 2UL 0819785 SOIL1 10UL BN488=>1ML HP#2 579869 BNA
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 3085. Max Peaks: 20 Bunching: 1
Dnslope: 0.00 Results File IP3399 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	7.49	182	183	193	13332	40306	39473	12.68	2.800
2	8.73	241	244	249	37095	143371	142666	45.83	10.120
3	17.80	685	689	690	7465	52510	31429	10.10	2.229
4	18.66	728	731	735	7192	74483	34371	11.04	2.438
5	20.46	813	819	824	13624	147560	75012	24.10	5.321
6	20.68	828	830	833	22604	104391	58238	18.71	4.131
7	21.30	857	860	863	14535	105702	38833	12.47	2.755
8	22.16	899	902	906	18344	148903	63086	20.27	4.475
9	22.97	939	942	944	9134	90929	34642	11.13	2.457
10	24.37	1007	1010	1012	16284	144529	48609	15.62	3.448
11	24.45	1012	1014	1017	60005	247947	152407	48.96	10.811
12	25.00	1038	1041	1044	11000	147460	38257	12.29	2.714
13	25.92	1085	1086	1088	44899	131909	65142	20.93	4.621
14	26.35	1105	1107	1112	8076	177615	36598	11.76	2.596
15	26.91	1130	1134	1138	5560	213887	38494	12.37	2.731
16	27.03	1138	1140	1143	13268	149534	36721	11.80	2.605
17	27.13	1143	1145	1147	15362	127792	37556	12.06	2.664
18	27.21	1147	1149	1151	24073	162786	62484	20.07	4.432
19	29.20	1241	1246	1249	84605	585264	311290	100.00	22.081
20	39.73	1755	1758	1762	18603	486201	64436	20.70	4.571

Sum of corrected areas: 1409744.

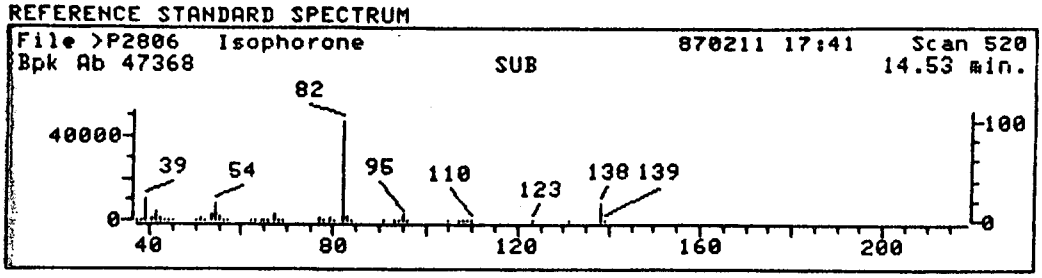
Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	42.8	30848.	11.05	3.78 - 13.33
2	41.0	160380.	15.60	13.33 - 20.62
3	41.0	169651.	25.64	20.62 - 45.05

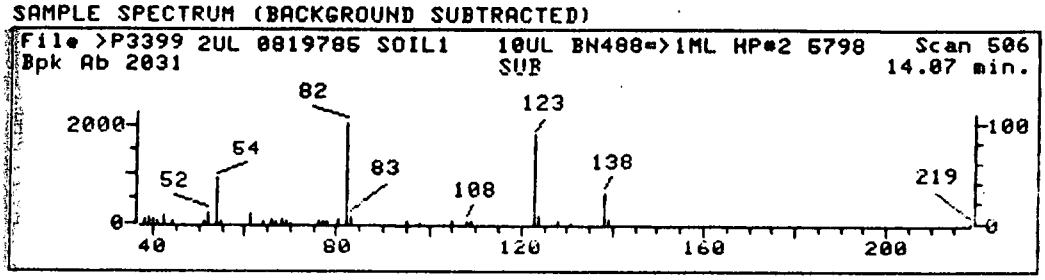
Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00

279

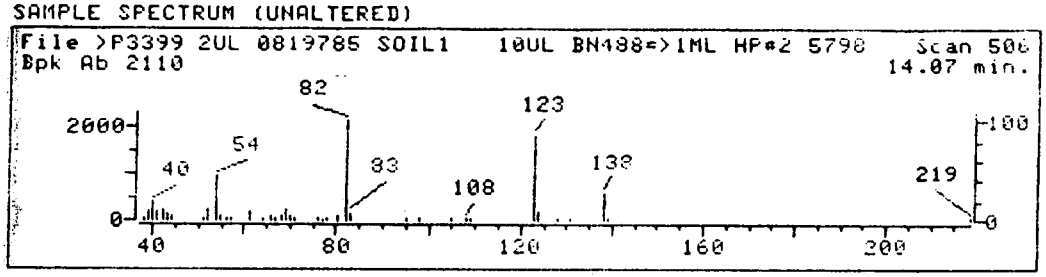
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



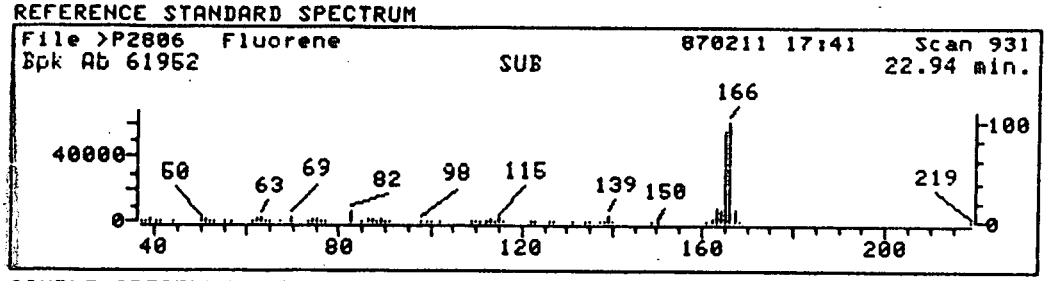
SAMPLE SPECTRUM (UNALTERED)



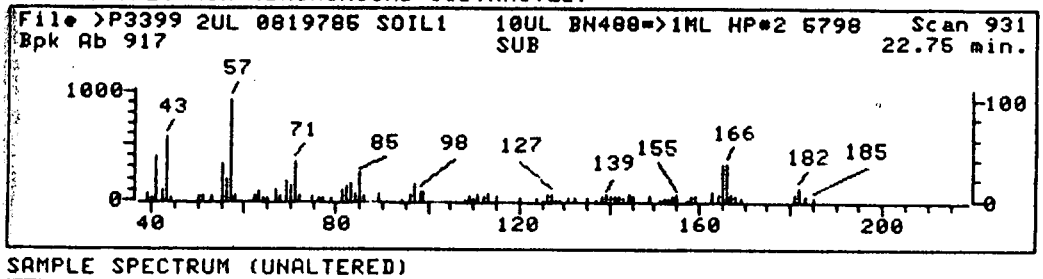
Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Quant Time: 870910 19:20 Quant ID File: ID_625::ME
Injected at: 870910 18:33 Last Calibration: 870910 15:35

Compound No: 17
Compound Name: Isophorone
Scan Number: 506
Retention Time: 14.07 min.
Quant Ion: 82.0
Area: 11237
Concentration: 5.74 ug/mL
q-value: 37

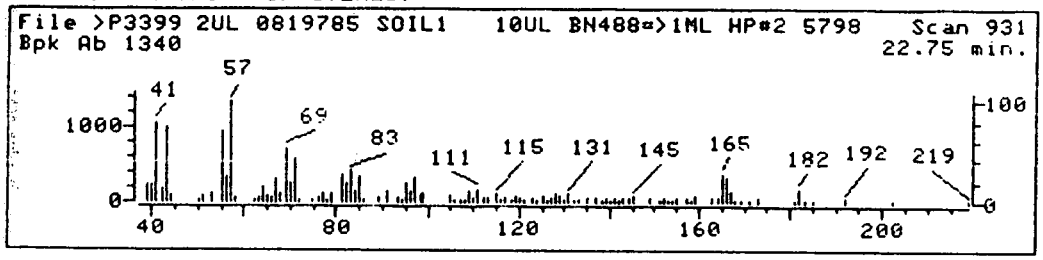
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



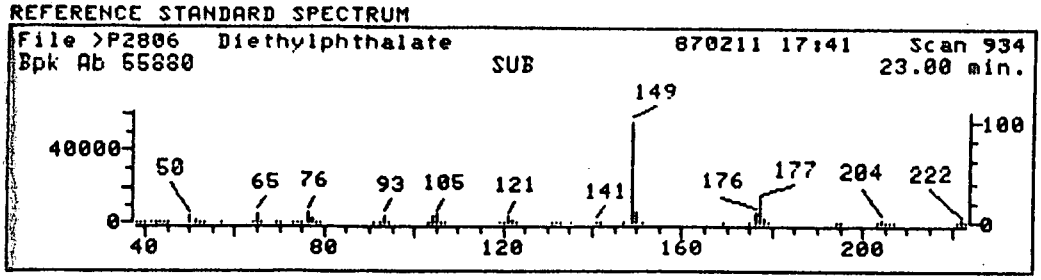
SAMPLE SPECTRUM (UNALTERED)



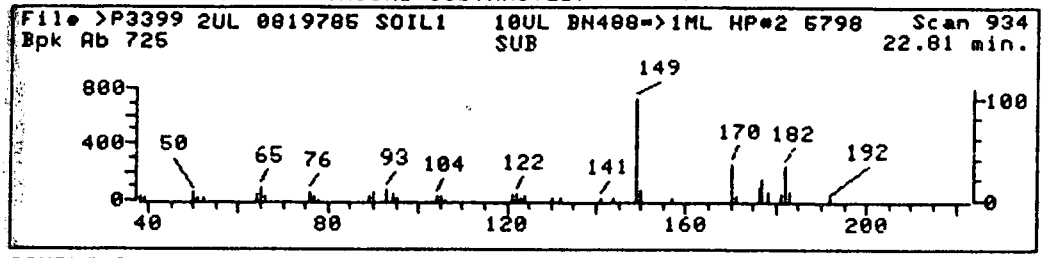
Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Quant Time: 870910 19:20 Quant ID File: ID_625::ME
Injected at: 870910 18:33 Last Calibration: 870910 15:35

Compound No: 39
Compound Name: Fluorene
Scan Number: 931
Retention Time: 22.75 min.
Quant Ion: 166.0
Area: 1623
Concentration: 1.47 ug/mL
q-value: 87

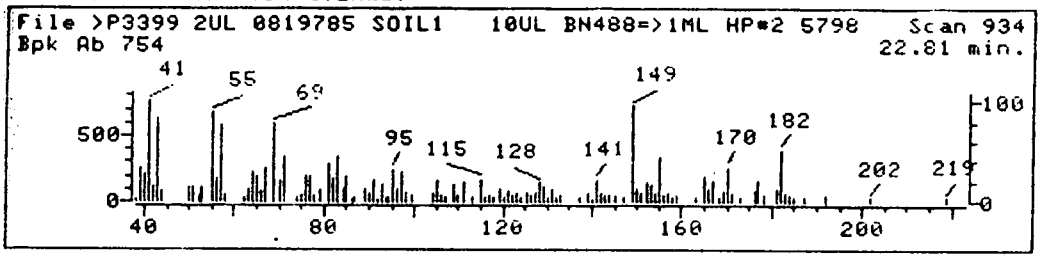
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



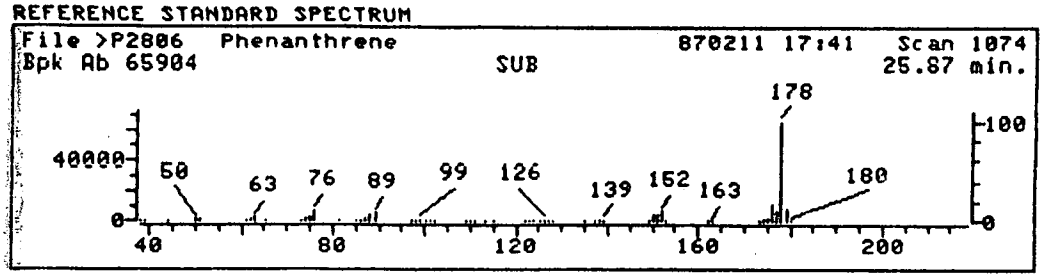
SAMPLE SPECTRUM (UNALTERED)



Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Quant Time: 870910 19:20 Quant ID File: ID_625::ME
Injected at: 870910 18:33 Last Calibration: 870910 15:35

Compound No: 37
Compound Name: Diethylphthalate
Scan Number: 934
Retention Time: 22.81 min.
Quant Ion: 149.0
Area: 2143
Concentration: 1.32 ug/mL
q-value: 97

REFERENCE STANDARD SPECTRUM



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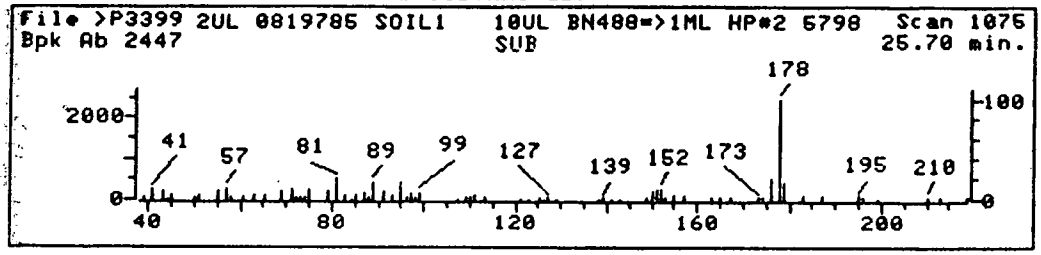
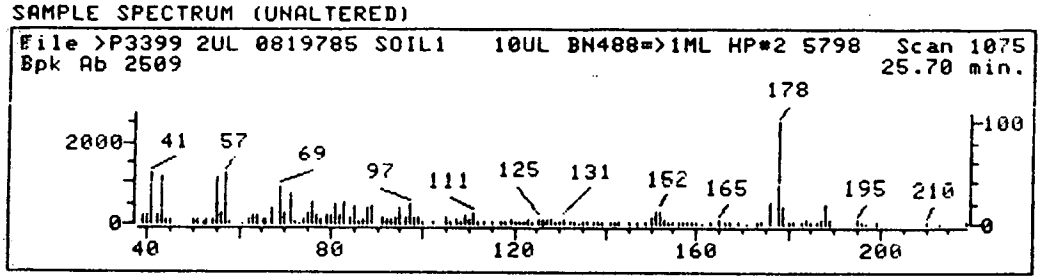


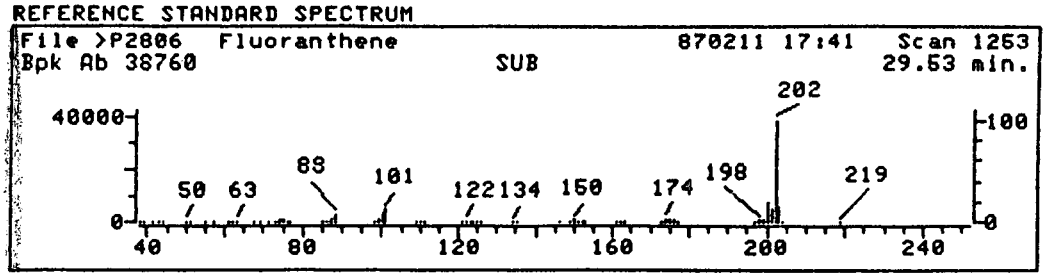
SAMPLE SPECTRUM (UNALTERED)



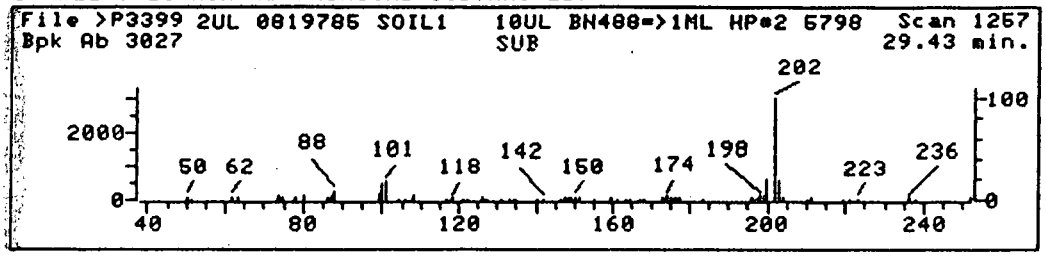
Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Quant Time: 870910 19:20 Quant ID File: ID_625::ME
Injected at: 870910 18:33 Last Calibration: 870910 15:35

Compound No: 47
Compound Name: Phenanthrene
Scan Number: 1075
Retention Time: 25.70 min.
Quant Ion: 178.0
Area: 5645
Concentration: 2.69 ug/mL
q-value: 51

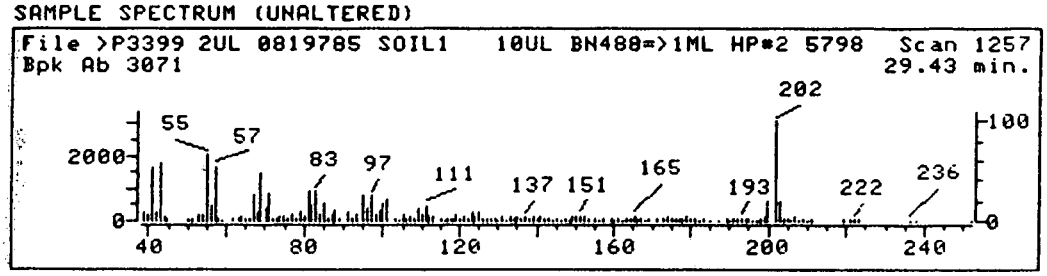
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



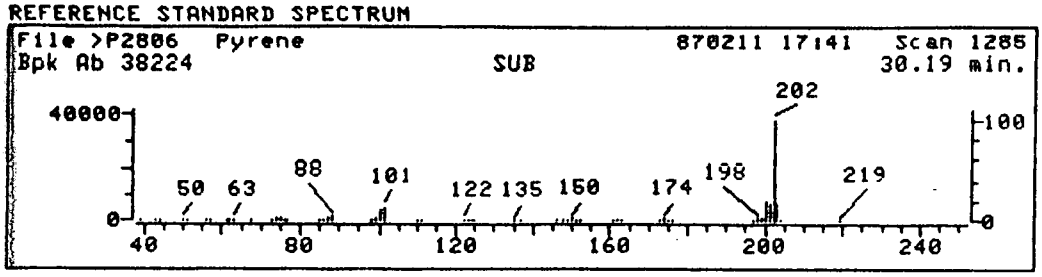
SAMPLE SPECTRUM (UNALTERED)



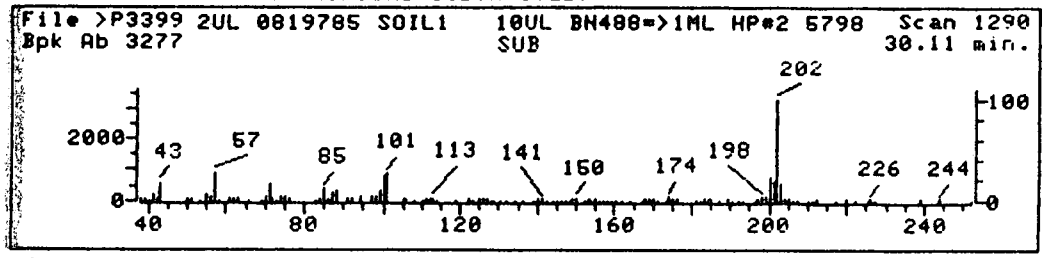
Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Quant Time: 870910 19:20 Quant ID File: ID_625::ME
Injected at: 870910 18:33 Last Calibration: 870910 15:35

Compound No: 50
Compound Name: Fluoranthene
Scan Number: 1257
Retention Time: 29.43 min.
Quant Ion: 202.0
Area: 9473
Concentration: 5.36 ug/mL
q-value: 79

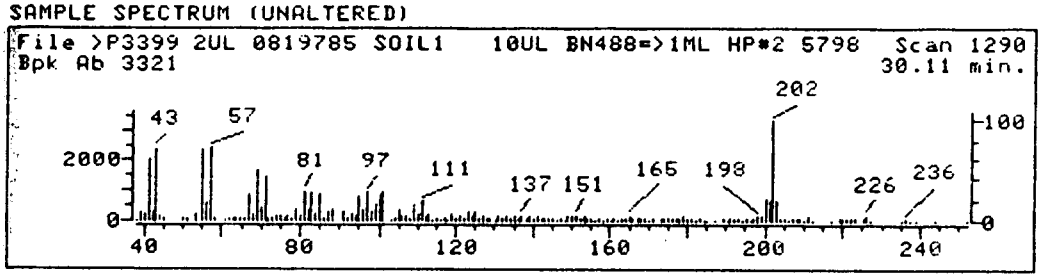
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



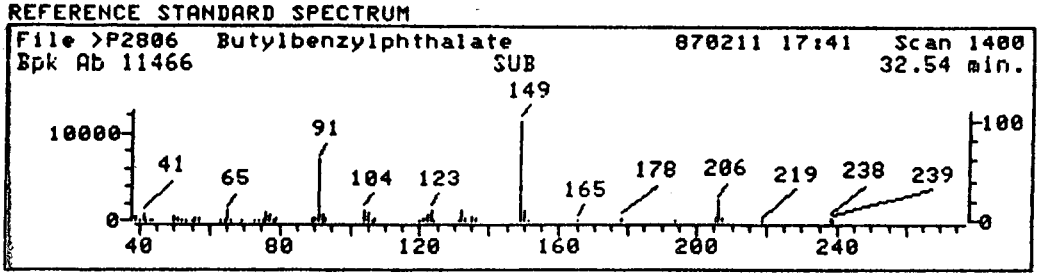
SAMPLE SPECTRUM (UNALTERED)



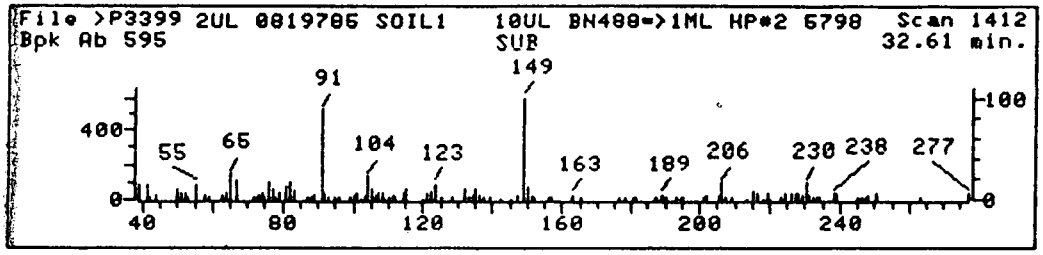
Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Quant Time: 870910 19:20 Quant ID File: ID_625::ME
Injected at: 870910 18:33 Last Calibration: 870910 15:35

Compound No: 53
Compound Name: Pyrene
Scan Number: 1290
Retention Time: 30.11 min.
Quant Ion: 202.0
Area: 10696
Concentration: 6.02 ug/mL
q-value: 62

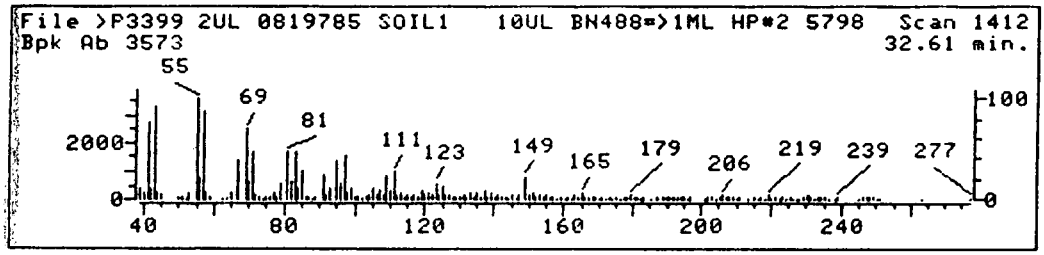
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



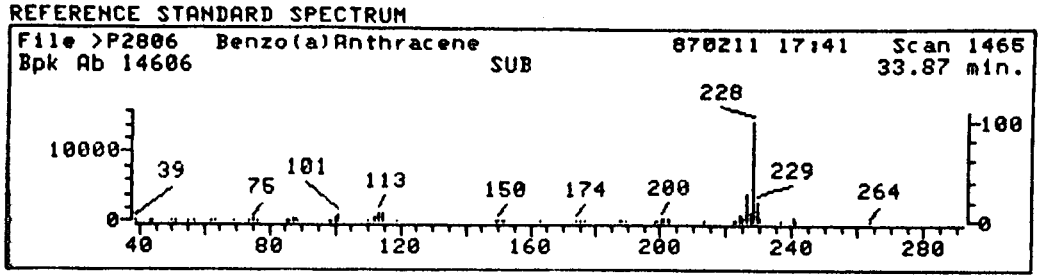
SAMPLE SPECTRUM (UNALTERED)



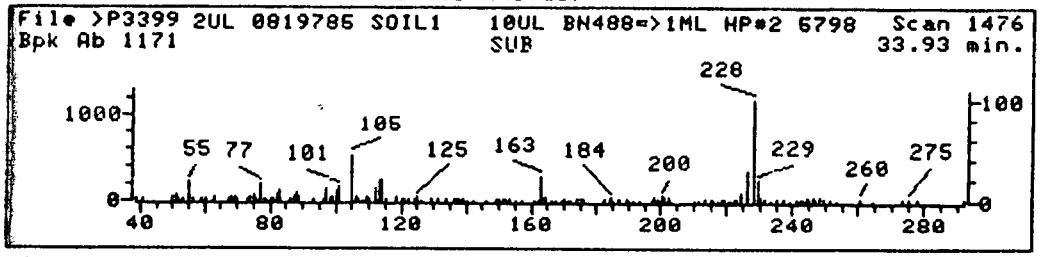
Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Quant Time: 870910 19:20 Quant ID File: ID_625::ME
Injected at: 870910 18:33 Last Calibration: 870910 15:35

Compound No: 54
Compound Name: Butylbenzylphthalate
Scan Number: 1412
Retention Time: 32.61 min.
Quant Ion: 149.0
Area: 1522
Concentration: 1.20 ug/mL
q-value: 79

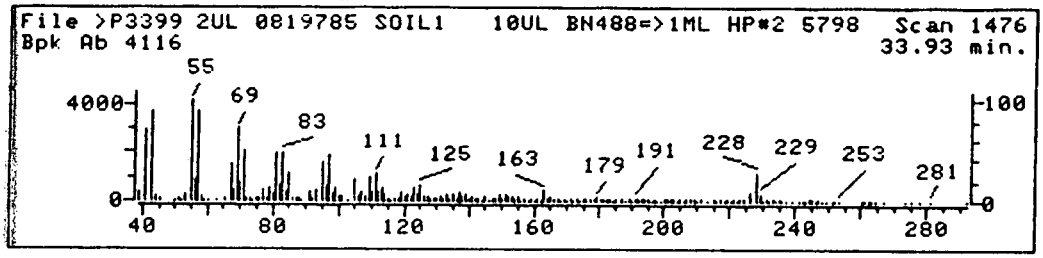
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



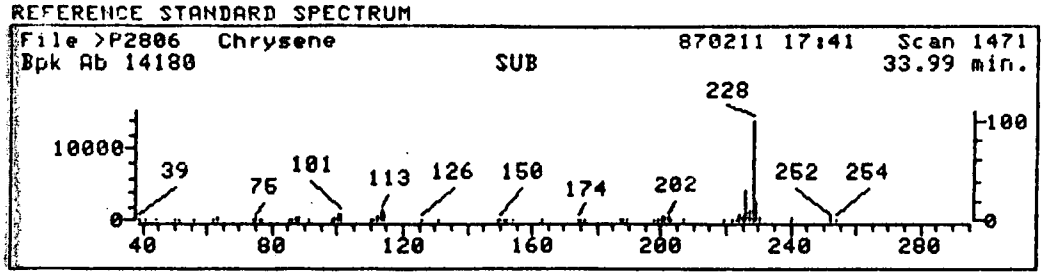
SAMPLE SPECTRUM (UNALTERED)



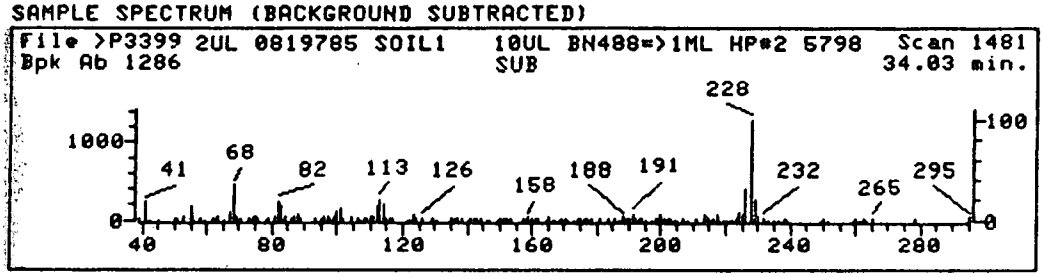
Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Quant Time: 870910 19:20 Quant ID File: ID_625::ME
Injected at: 870910 18:33 Last Calibration: 870910 15:35

Compound No: 56
Compound Name: Benzo(a)Anthracene
Scan Number: 1476
Retention Time: 33.93 min.
Quant Ion: 228.0
Area: 4140
Concentration: 2.91 ug/mL
q-value: 74

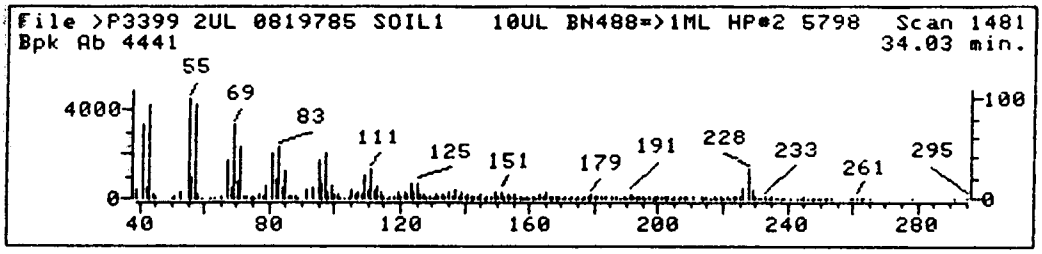
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



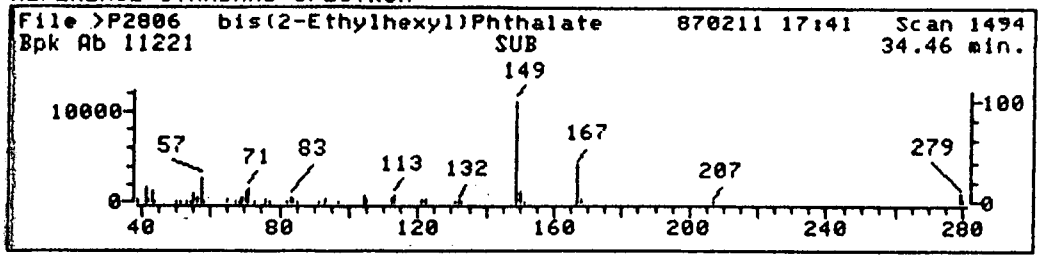
SAMPLE SPECTRUM (UNALTERED)



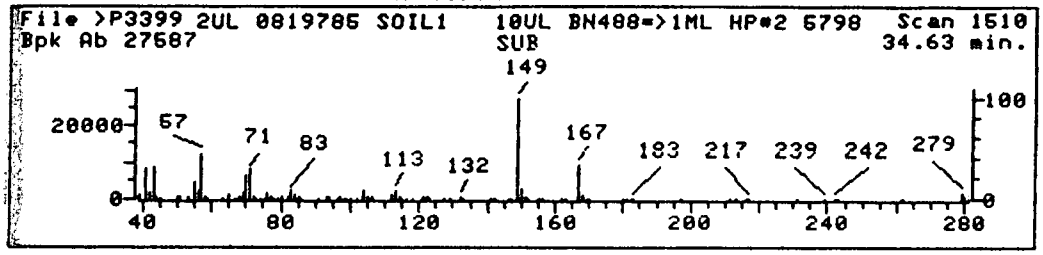
Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Quant Time: 870910 19:20 Quant ID File: ID_625::ME
Injected at: 870910 18:33 Last Calibration: 870910 15:35

Compound No: 58
Compound Name: Chrysene
Scan Number: 1481
Retention Time: 34.03 min.
Quant Ion: 228.0
Area: 5215
Concentration: 3.86 ug/mL
q-value: 97

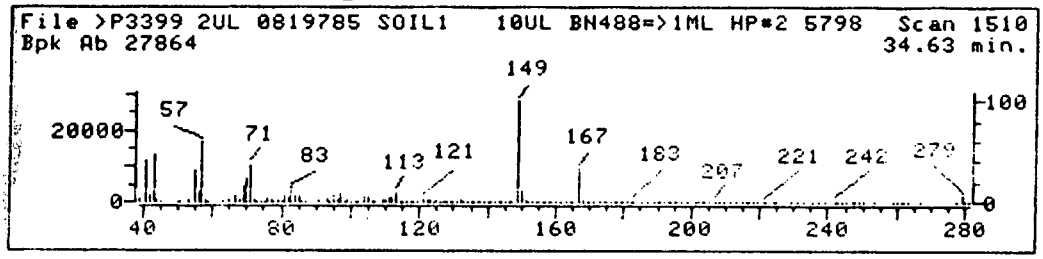
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



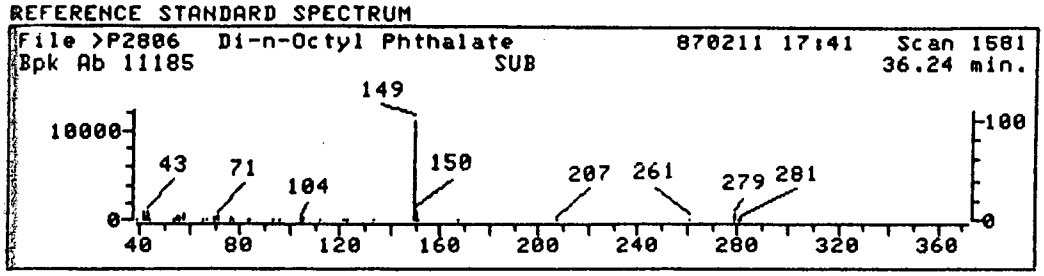
SAMPLE SPECTRUM (UNALTERED)



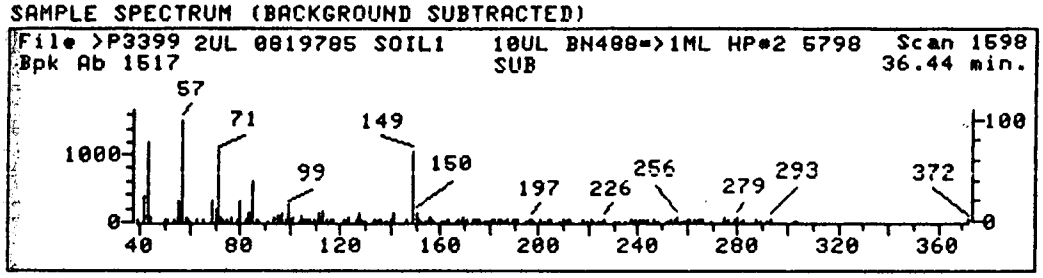
Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Quant Time: 870910 19:20 Quant ID File: ID_B2F::ME
Injected at: 870910 18:33 Last Calibration: 870910 19:[illegible]

Compound No: 57
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1910
Retention Time: 34.63 min.
Quant Ion: 149.0
Area: 74986
Concentration: 45.92 ug/mL
q-value: 87

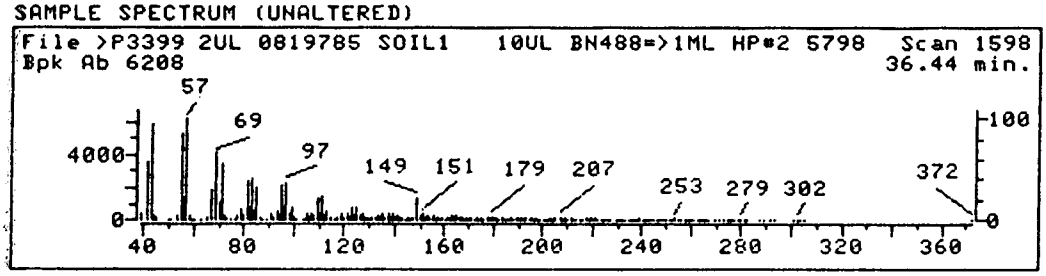
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



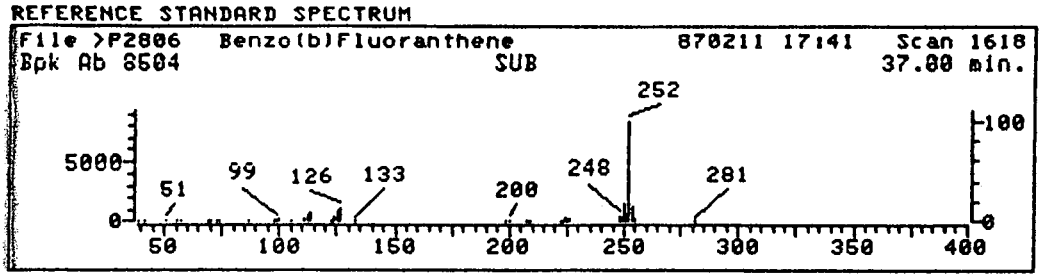
SAMPLE SPECTRUM (UNALTERED)



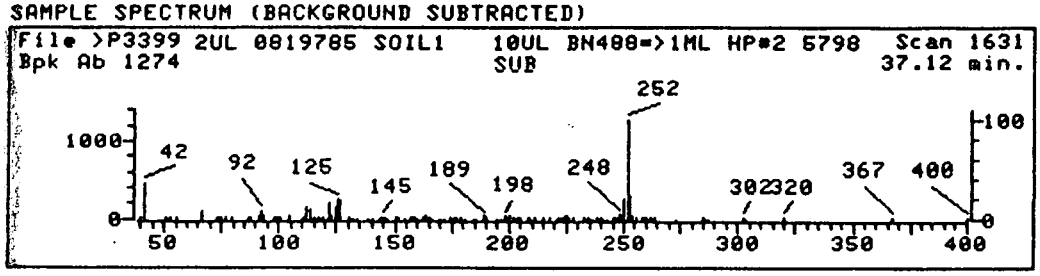
Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Quant Time: 870910 19:20 Quant ID File: ID_625::ME
Injected at: 870910 18:33 Last Calibration: 870910 15:35

Compound No: 59
Compound Name: Di-n-Octyl Phthalate
Scan Number: 1598
Retention Time: 36.44 min.
Quant Ion: 149.0
Area: 3913
Concentration: 1.46 ug/mL
q-value: 100

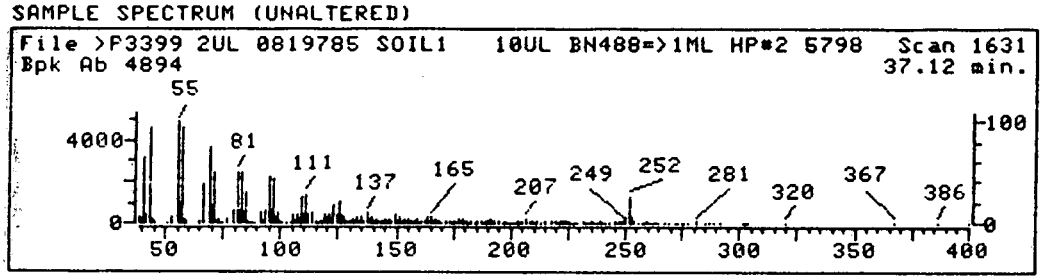
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



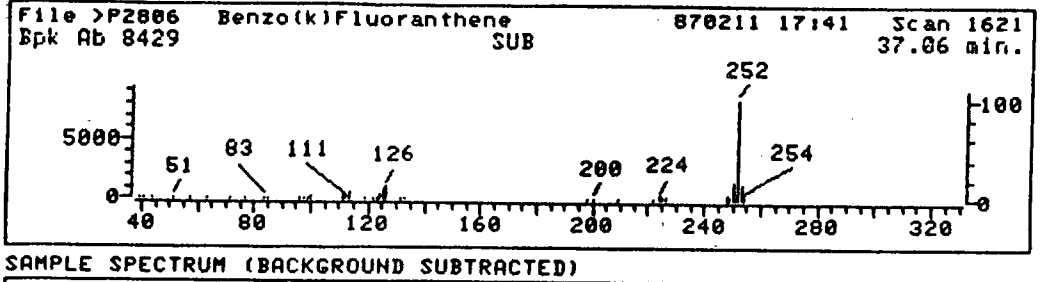
SAMPLE SPECTRUM (UNALTERED)



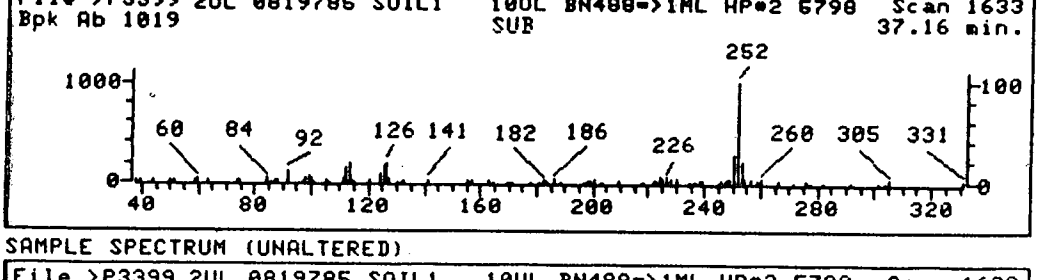
Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Quant Time: 870910 19:20 Quant ID File: ID_625::ME
Injected at: 870910 18:33 Last Calibration: 870910 15:35

Compound No: 60
Compound Name: Benzo(b)Fluoranthene
Scan Number: 1631
Retention Time: 37.12 min.
Quant Ion: 252.0
Area: 5220M
Concentration: 3.46 ug/mL
q-value: 89

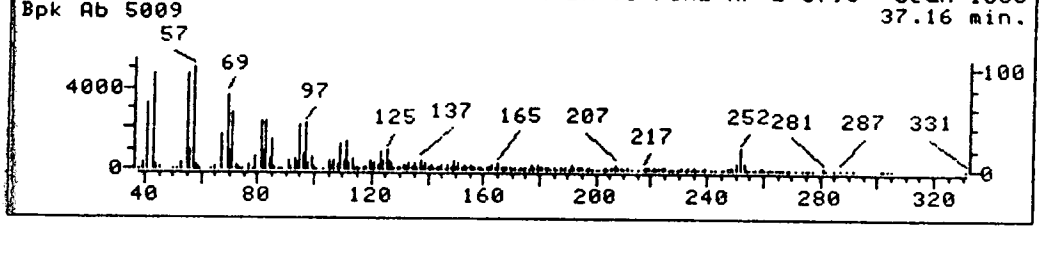
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



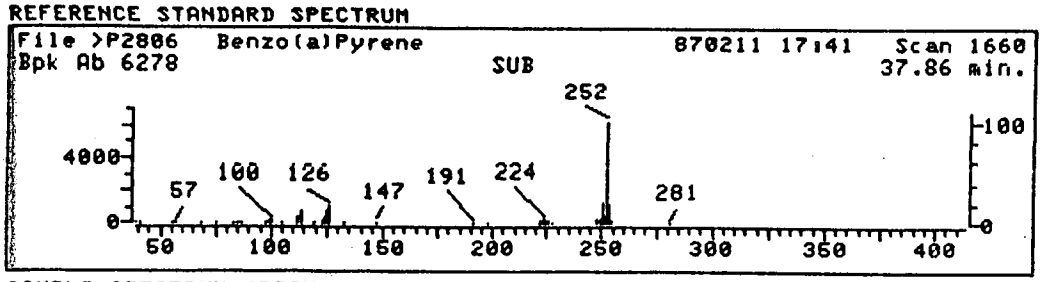
SAMPLE SPECTRUM (UNALTERED)



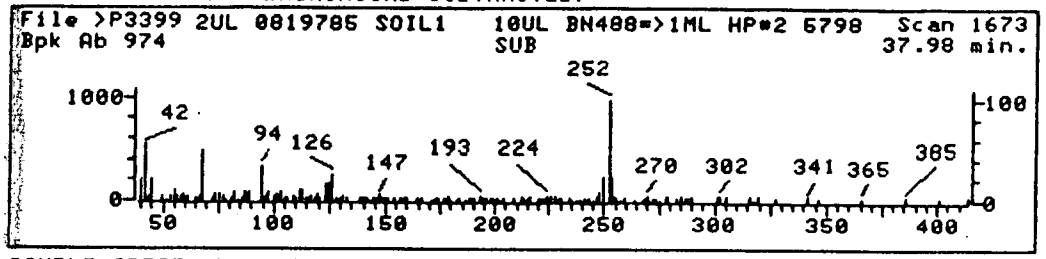
Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Quant Time: 870910 19:20 Quant ID File: ID_625::ME
Injected at: 870910 18:33 Last Calibration: 870910 15:35

Compound No: 61
Compound Name: Benzo(k)Fluoranthene
Scan Number: 1633
Retention Time: 37.16 min.
Quant Ion: 252.0
Area: 2327M
Concentration: 2.34 ug/mL
q-value: 87

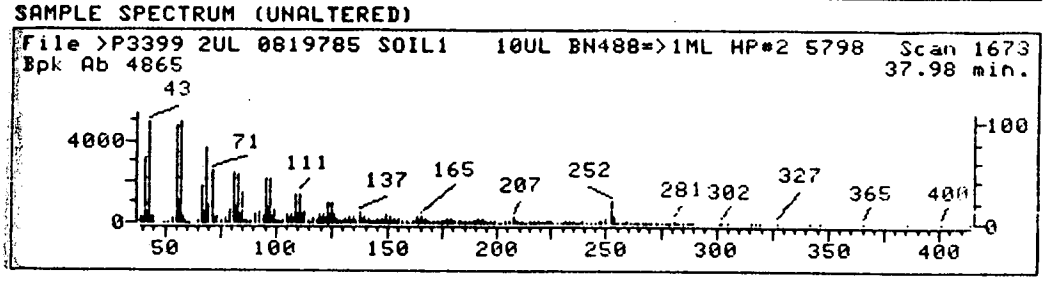
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



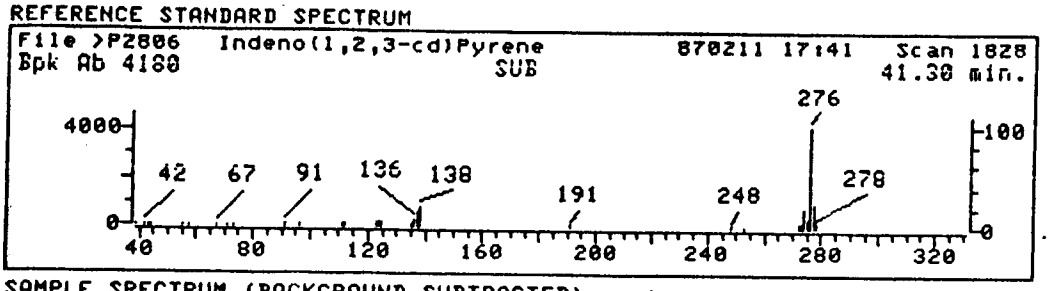
SAMPLE SPECTRUM (UNALTERED)



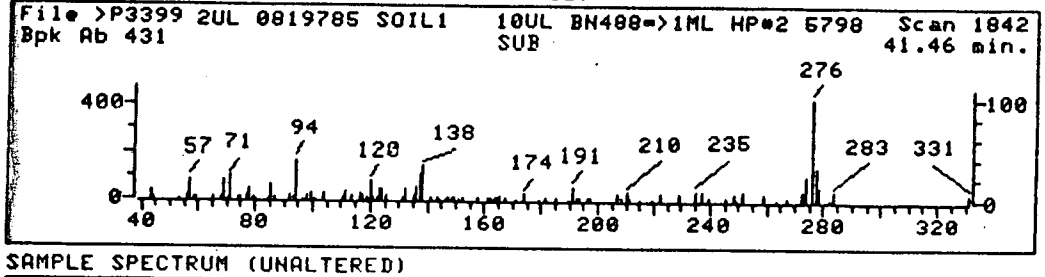
Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Quant Time: 870910 19:20 Quant ID File: ID_625::ME
Injected at: 870910 18:33 Last Calibration: 870910 15:35

Compound No: 62
Compound Name: Benzo(a)Pyrene
Scan Number: 1673
Retention Time: 37.98 min.
Quant Ion: 252.0
Area: 3993
Concentration: 2.61 ug/mL
q-value: 98

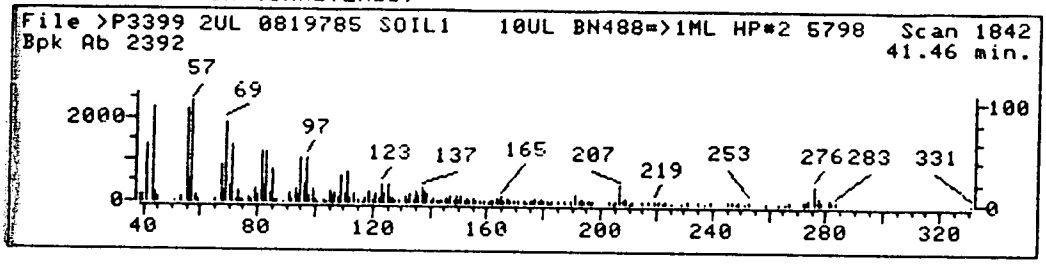
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

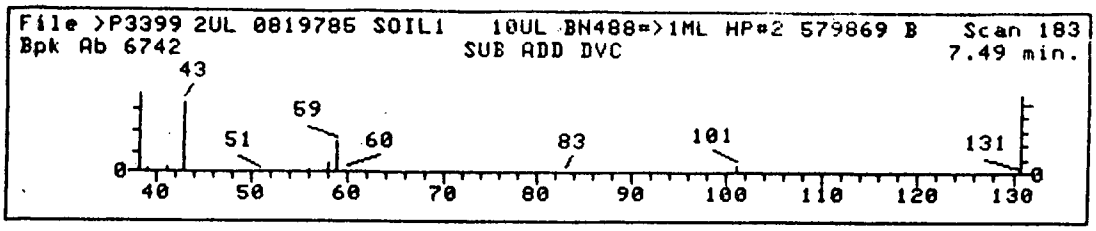


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3399::B1 Quant Output File: ^P3399::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 579869 BNA BTL#54
Quant Time: 870910 19:20 Quant ID File: ID_625::ME
Injected at: 870910 18:33 Last Calibration: 870910 15:35

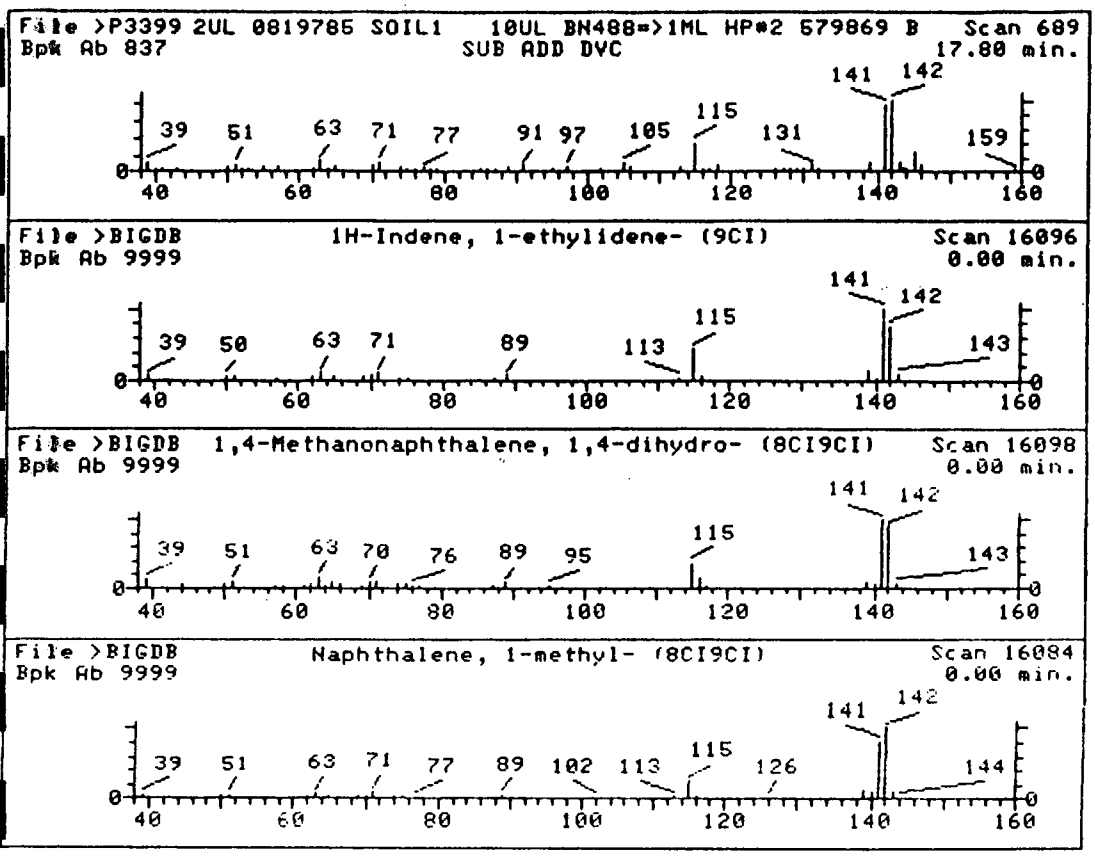
Compound No: 63
Compound Name: Indeno(1,2,3-cd)Pyrene
Scan Number: 1842
Retention Time: 41.46 min.
Quant Ion: 276.0
Area: 2774
Concentration: 1.83 ug/mL
q-value: 74



. Unknown #,1
Area = 39473.00 Tentative Concentration is 55.00

Sample file: >P3399 Spectrum #: 183

No data base entries were retrieved.

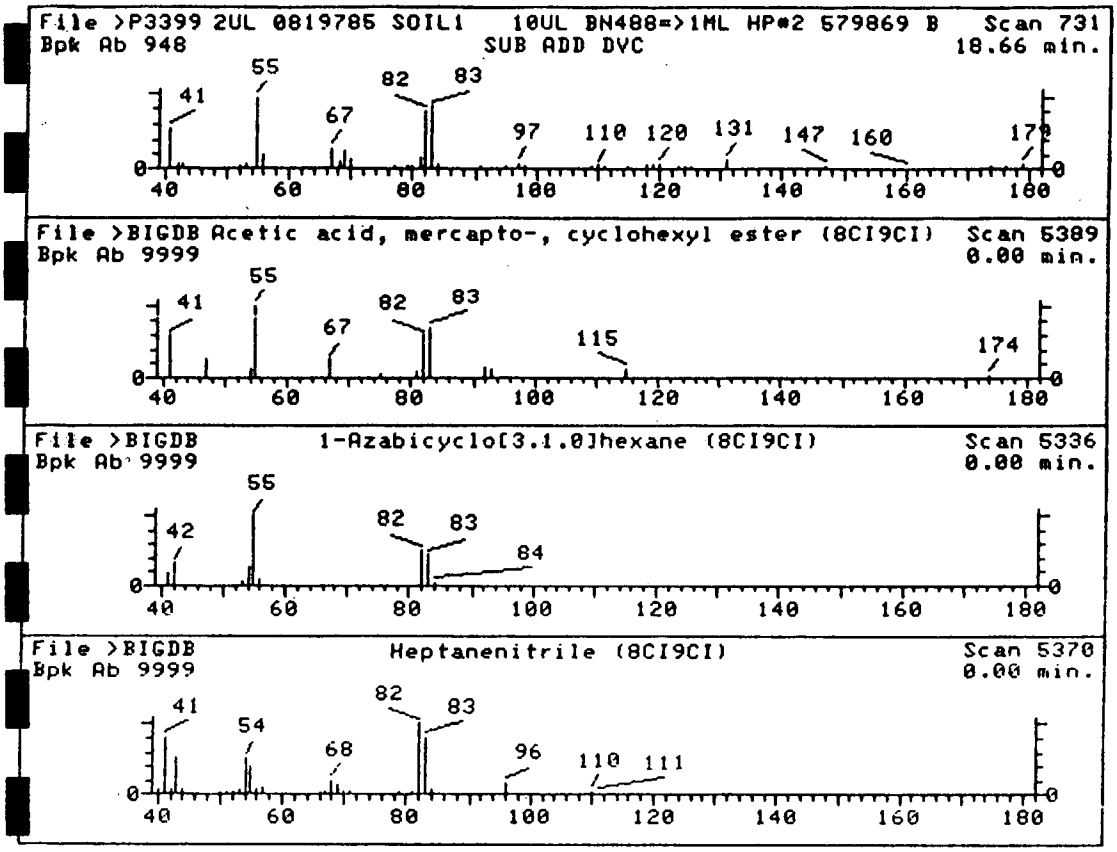


. Unknown #,3
Area = 31429.00 Tentative Concentration is 8.00

1.	1H-Indene, 1-ethylidene- (9CI)	142	C11H10
2.	1,4-Methanonaphthalene, 1,4-dihydro- (8CI9CI)	142	C11H10
3.	Naphthalene, 1-methyl- (8CI9CI)	142	C11H10
4.	Naphthalene, 2-methyl- (8CI9CI)	142	C11H10
5.	Benzeneacetonitrile, 4-cyano- (9CI)	142	C9H6N2
6.	Phenol, 4-chloro-3-methyl- (9CI)	142	C7H7ClO
7.	Benzeneacetonitrile, 2-cyano- (9CI)	142	C9H6N2

Sample file: >P3399 Spectrum #: 689
Search speed: 1 Tilting option: N No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	70*	2471832	16096	"BIGDB	72	28	1	0	81	31	32	71

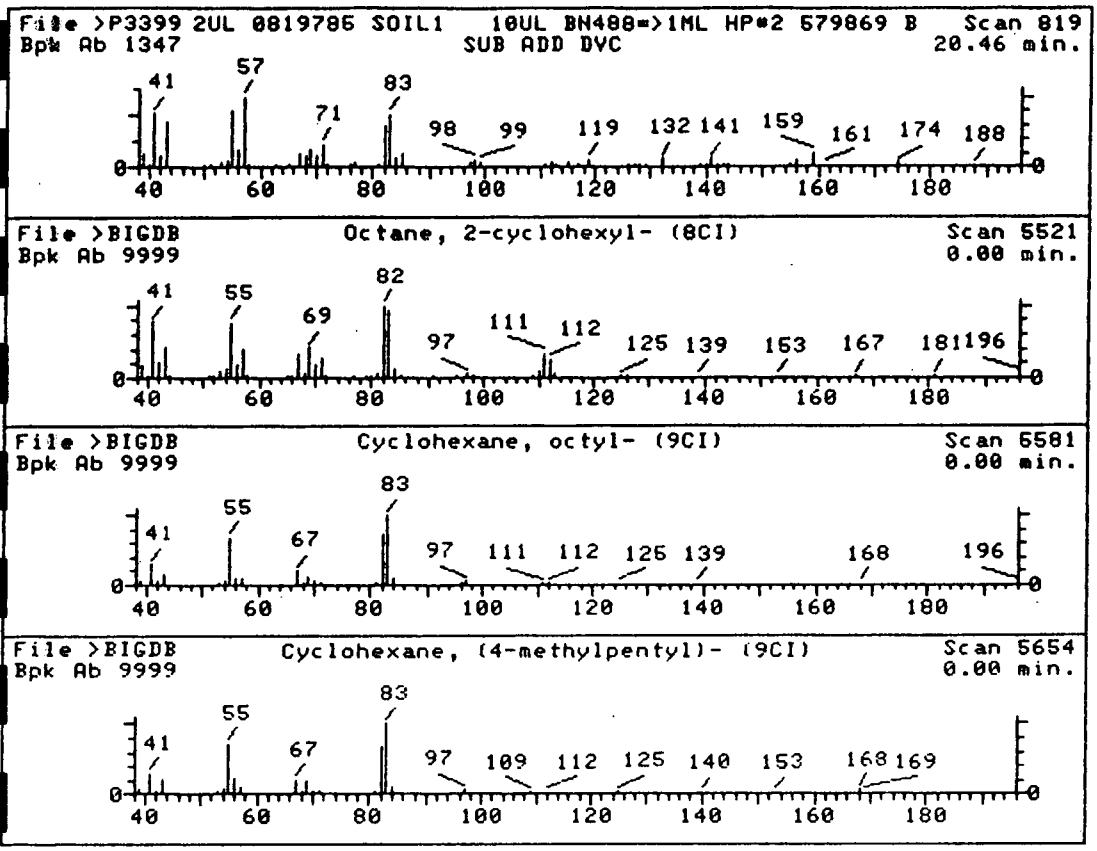


Unknown #,4
Area = 34371.00 Tentative Concentration is 9.00

1.	Acetic acid, mercapto-, cyclohexyl ester (8CI9CI)	174	C8H14O2S
2.	1-Azabicyclo[3.1.0]hexane (8CI9CI)	83	C5H9N
3.	Heptanenitrile (8CI9CI)	111	C7H13N
4.	Cyclopentane, 1-methyl-2-(2-propenyl)-, trans- (9CI)	124	C9H16
5.	Cyclohexane, chloro- (8CI9CI)	118	C6H11Cl
6.	Cyclopentane, 1-ethyl-1-methyl- (8CI9CI)	112	C8H16
7.	Cyclohexane, azido- (8CI9CI)	125	C6H11N3

Sample file: >P3399 Spectrum #: 731
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52*	16849982	5389	"BIGDB	47	62	3	0	95	19	20	13

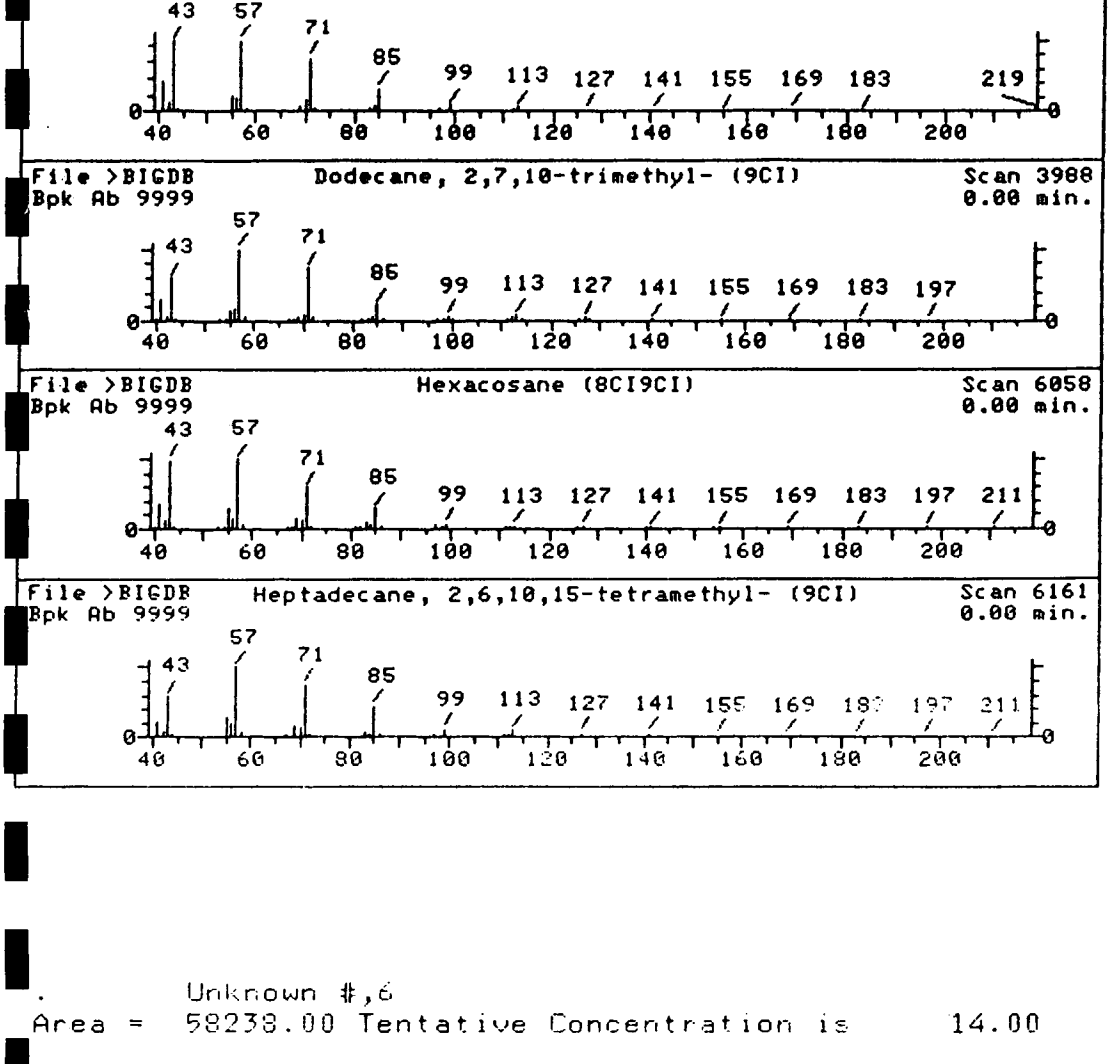


Unknown #,5
Area = 75012.00 Tentative Concentration is 19.00

1.	Octane, 2-cyclohexyl- (8CI)	196 C14H28
2.	Cyclohexane, octyl- (9CI)	196 C14H28
3.	Cyclohexane, (4-methylpentyl)- (9CI)	168 C12H24
4.	Cyclohexane, undecyl- (9CI)	238 C17H34
5.	Cyclohexane, hexyl- (9CI)	168 C12H24
6.	Cyclopentane, 1-methyl-2-(2-propenyl)-, trans- (9CI)	124 C9H16
7.	Acetic acid, mercapto-, cyclohexyl ester (8CI9CI)	174 C8H14O2S

Sample file: >P3399 Spectrum #: 819
Search speed: 1 Tilting option: N No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	54*	2883058	5521	"BIGDB	66	69	2	0	59	38	19	45



Unknown #,6

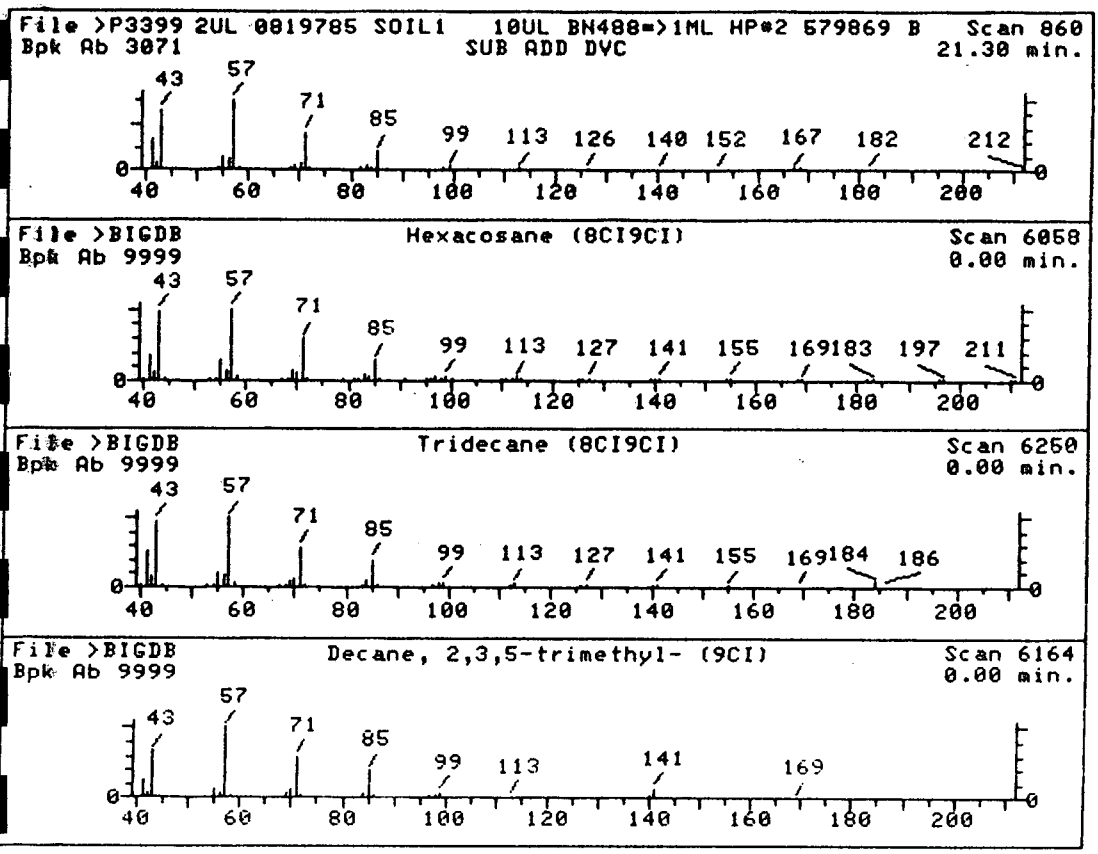
Area = 58238.00 Tentative Concentration is 14.00

1.	Dodecane, 2,7,10-trimethyl- (9CI)	212 C15H32
2.	Hexacosane (8CI9CI)	366 C26H54
3.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
4.	Heptadecane, 2,6-dimethyl- (9CI)	268 C19H40
5.	Decane, 3,6-dimethyl- (8CI9CI)	170 C12H26
6.	Hexadecane (8CI9CI)	226 C16H34
7.	Octane, 2,3,7-trimethyl- (9CI)	156 C11H24

Sample file: >P3399 Spectrum #: 830

Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	83	74645980	3988	"BIGDB	75	34	2	0	100	0	57	24
2.	78	630013	6058	"BIGDB	69	71	2	0	100	5	55	15
3.	78	54833486	6161	"BIGDB	76	57	2	0	73	0	55	19
4.	70	54105678	3959	"BIGDB	62	54	2	0	100	10	42	13
5.	70	17312537	11148	"BIGDB	53	45	2	0	85	7	42	14
6.	70	544763	6146	"BIGDB	61	59	2	0	82	6	42	12

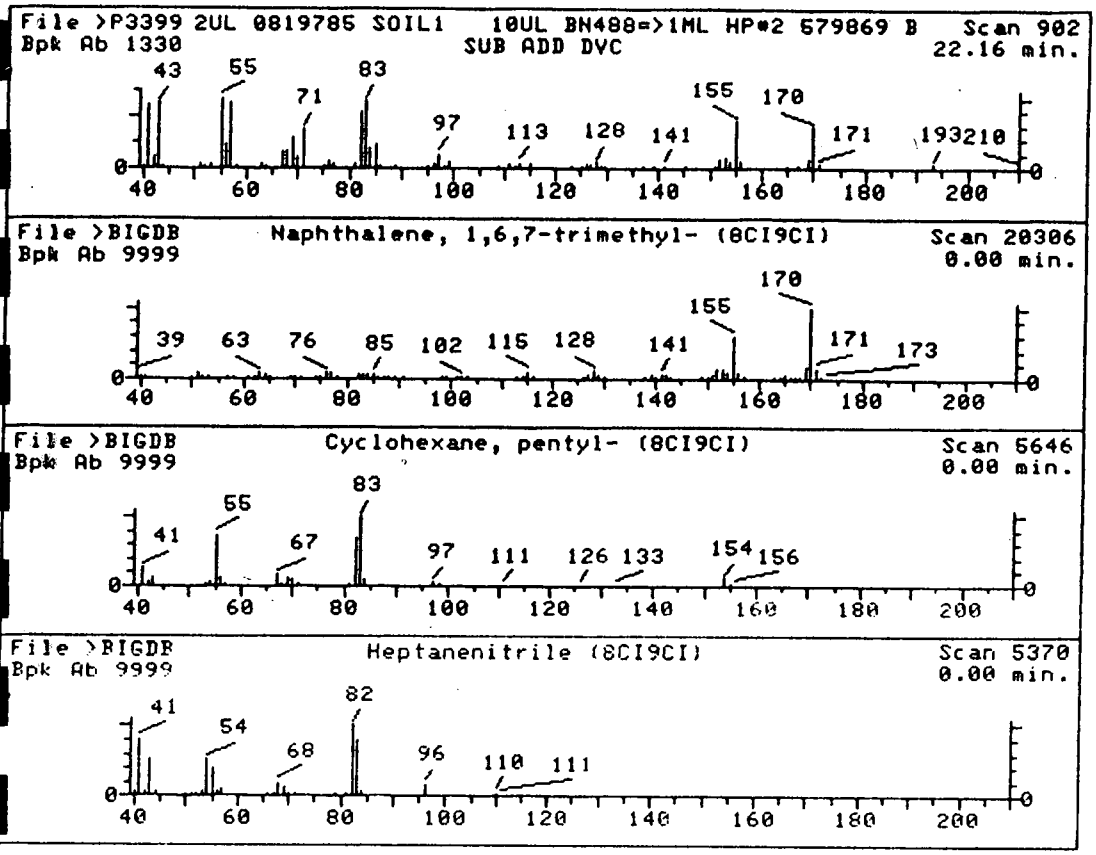


Unknown #,7
Area = 38833.00 Tentative Concentration is 9.00

1.	Hexacosane (8CI9CI)	366 C26H54
2.	Tridecane (8CI9CI)	184 C13H28
3.	Decane, 2,3,5-trimethyl- (9CI)	184 C13H28
4.	Tetradecane, 1-iodo- (8CI9CI)	324 C14H29I
5.	Decane, 6-ethyl-2-methyl- (9CI)	184 C13H28
6.	Octane, 2,4,6-trimethyl- (9CI)	156 C11H24
7.	Dodecane (8CI9CI)	170 C12H26

Sample file: >P3399 Spectrum #: 860
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	70	630013	6058	"BIGDB	63	77	2	0	87	8	42	13
2.	70	629505	6250	"BIGDB	68	45	2	0	69	8	42	15
3.	70	62238113	6164	"BIGDB	56	47	2	0	69	10	42	13

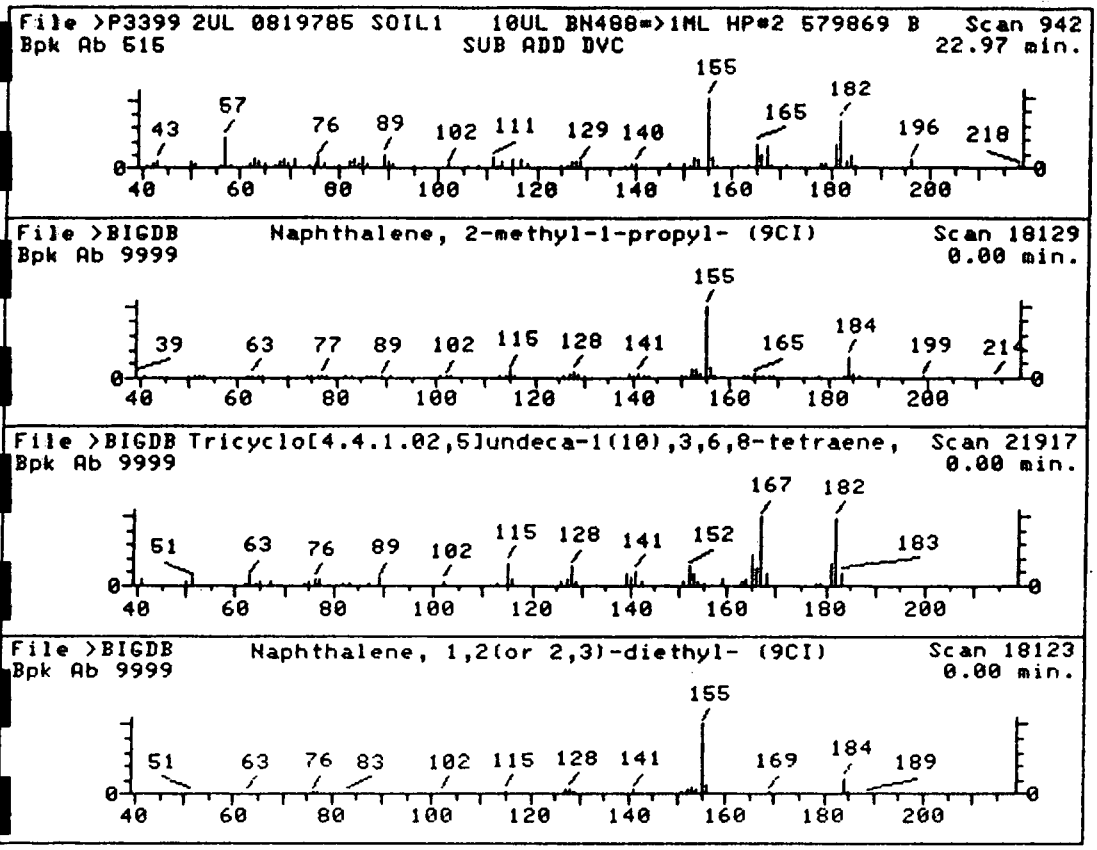


Unknown #,8
Area = 63086.00 Tentative Concentration is 15.00

1.	Naphthalene, 1,6,7-trimethyl- (8CI9CI)	170 C13H14
2.	Cyclohexane, pentyl- (8CI9CI)	154 C11H22
3.	Heptanenitrile (8CI9CI)	111 C7H13N
4.	Naphthalene, 2,3,6-trimethyl- (8CI9CI)	170 C13H14
5.	Hydrazinecarboxamide, 2-cyclohexylidene- (9CI)	155 C7H13N3O
6.	2H-Quinolizin-1-ol, octahydro-, cis- (9CI)	155 C9H17NO
7.	2H-Quinolizin-2-ol, octahydro-, trans- (9CI)	155 C9H17NO

Sample file: >P3399 Spectrum #: 902
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	32*	2245387	20306	"BIGDB	74	34	0	0	50	69	11	92

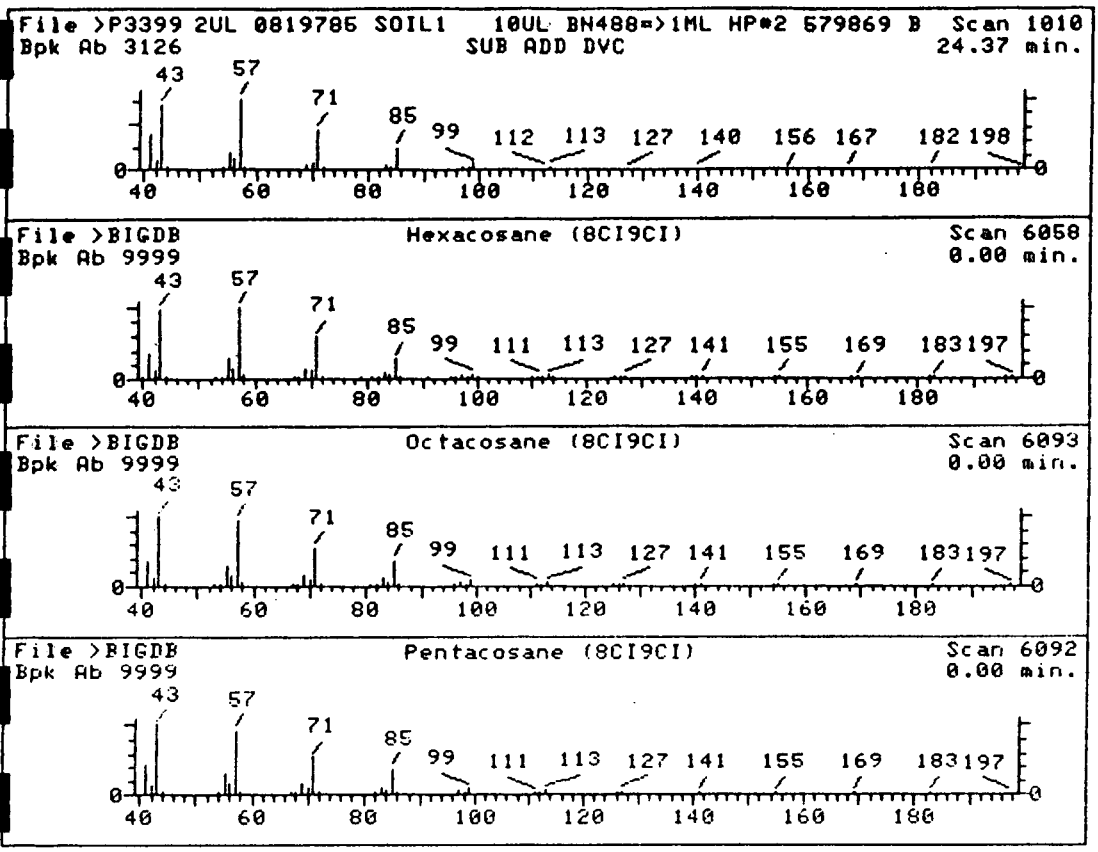


Unknown #,9
Area = 34642.00 Tentative Concentration is 8.00

1.	Naphthalene, 2-methyl-1-propyl- (9CI)	184	C14H16
2.	Tricyclo[4.4.1.02,5]undeca-1(10),3,6,8-tetraene, 11-(1-methylethylidene)- (9CI)	182	C14H14
3.	Naphthalene, 1,2(or 2,3)-diethyl- (9CI)	184	C14H16
4.	1,1'-Biphenyl, 2,4'-dimethyl- (9CI)	182	C14H14
5.	Benzene, 1-methyl-4-(phenylmethyl)- (9CI)	182	C14H14
6.	1,1'-Biphenyl, 2,3'-dimethyl- (9CI)	182	C14H14
7.	1,1'-Biphenyl, 3,3'-dimethyl- (9CI)	182	C14H14

Sample file: >P3399 Spectrum #: 942
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	24*	54774899	18129	"BIGDB	49	63	2	0	70	55	7	22

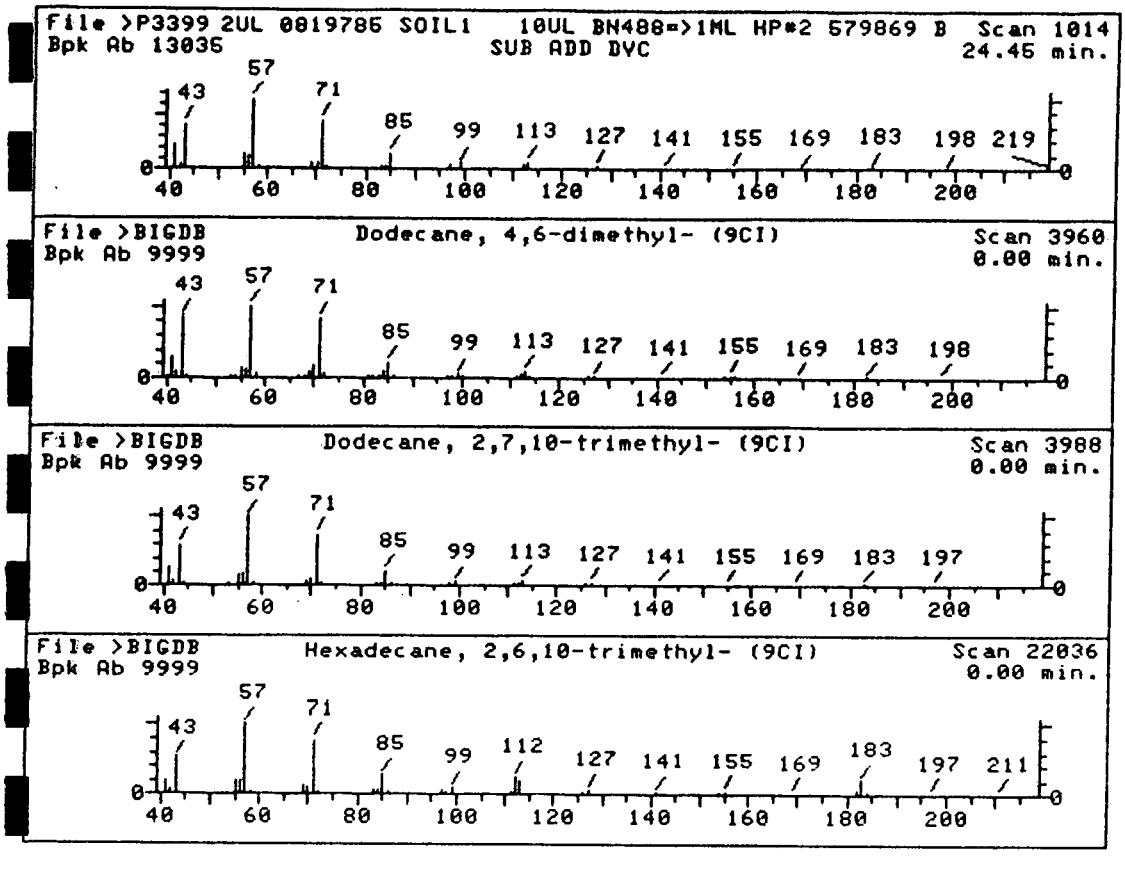


. Unknown #,10
Area = 48609.00 Tentative Concentration is 12.00

1.	Hexacosane (8CI9CI)	366 C26H54
2.	Octacosane (8CI9CI)	394 C28H58
3.	Pentacosane (8CI9CI)	352 C25H52
4.	Nonacosane (8CI9CI)	408 C29H60
5.	Tridecane (8CI9CI)	184 C13H28
6.	Hexadecane (8CI9CI)	226 C16H34
7.	Heptadecane (8CI9CI)	240 C17H36

Sample file: >P3399 Spectrum #: 1010
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78	630013	6058	"BIGDB	69	71	2	0	92	4	55	15
2.	78	630024	6093	"BIGDB	67	70	2	0	85	4	55	14
3.	78	629992	6092	"BIGDB	66	74	2	0	84	4	55	14
4.	78	630035	8905	"BIGDB	63	82	2	0	85	5	55	13
5.	78	629505	6250	"BIGDB	69	44	2	0	75	5	55	15
6.	78	544763	6146	"BIGDB	63	57	2	0	82	4	55	13
7.	78	629797	6090	"BIGDB	62	59	2	0	74	4	55	13

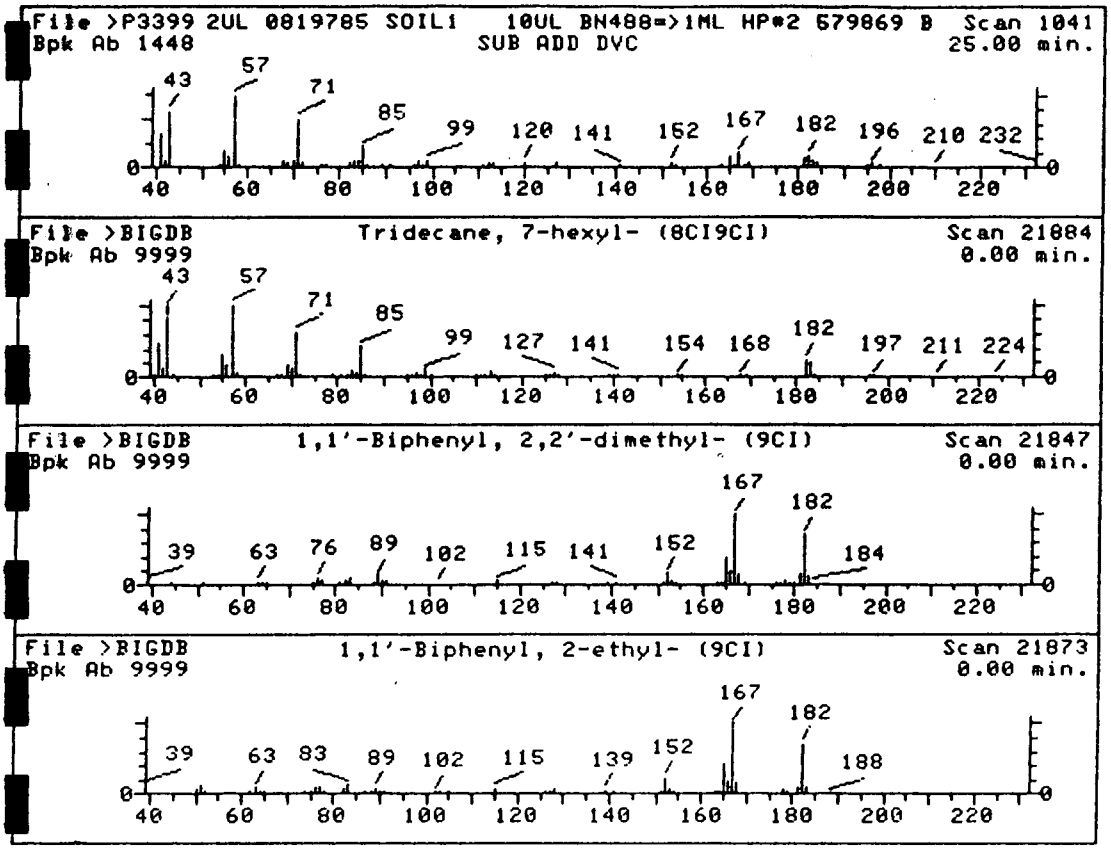


. Unknown #,11
Area = 152407.0 Tentative Concentration is 37.00

1.	Dodecane, 4,6-dimethyl- (9CI)	198 C14H30
2.	Dodecane, 2,7,10-trimethyl- (9CI)	212 C15H32
3.	Hexadecane, 2,6,10-trimethyl- (9CI)	268 C19H40
4.	Dodecane, 2-methyl-8-propyl- (9CI)	226 C16H34
5.	Tridecane, 5-propyl- (9CI)	226 C16H34
6.	Dodecane, 2,6,11-trimethyl- (8CI9CI)	212 C15H32
7.	Octane, 2,3,7-trimethyl- (9CI)	156 C11H24

Sample file: >P3399 Spectrum #: 1014
Search speed: 1 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	92*	61141728	3960	"BIGDB	75	35	0	0	59	24	53	93
2.	79	74645980	3988	"BIGDB	80	29	0	0	73	11	43	60
3.	78	55000527	22036	"BIGDB	66	68	2	0	59	0	55	14
4.	78	55045073	22037	"BIGDB	65	63	2	0	65	0	55	14
5.	70	55045119	10998	"BIGDB	62	51	2	0	92	8	42	13

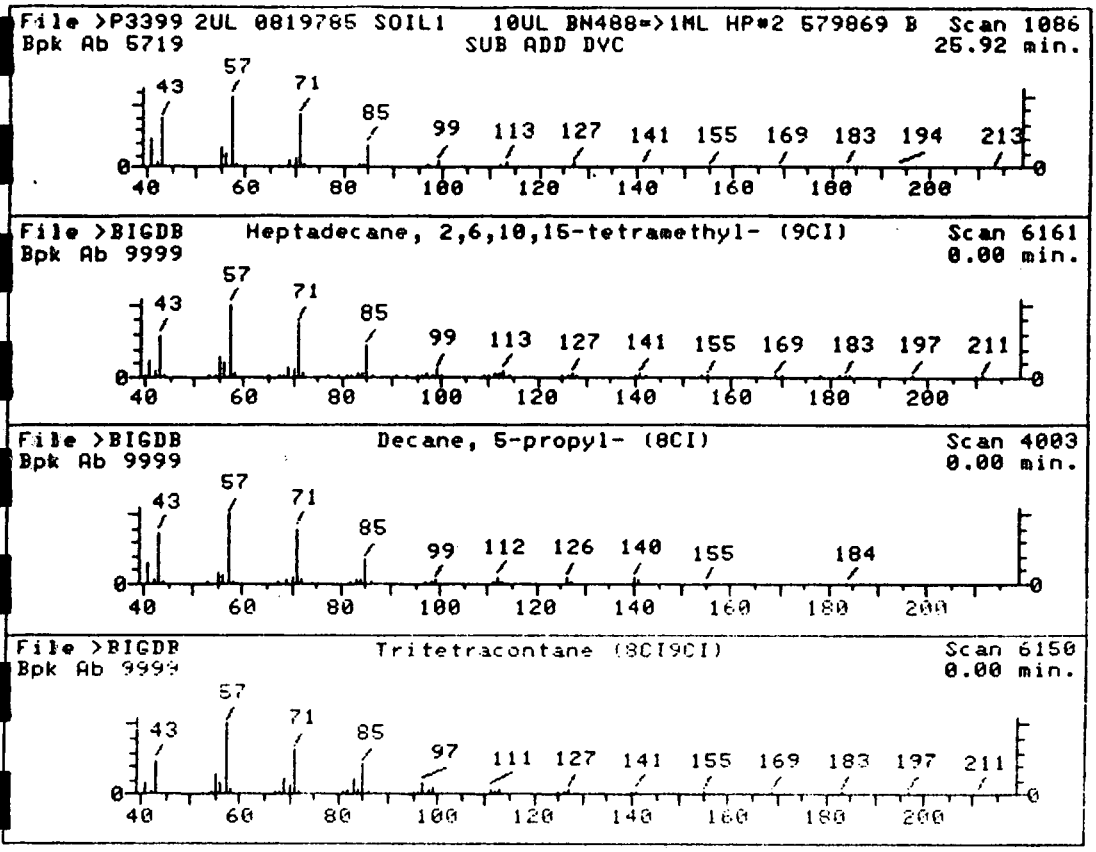


Unknown #,12
Area = 38257.00 Tentative Concentration is 9.00

1.	Tridecane, 7-hexyl- (8CI9CI)	268	C19H40
2.	1,1'-Biphenyl, 2,2'-dimethyl- (9CI)	182	C14H14
3.	1,1'-Biphenyl, 2-ethyl- (9CI)	182	C14H14
4.	Tricyclo[4.4.1.02,5]undeca-1(10),3,6,8-tetraene, 11-(1-methylethylidene)- (9CI)	182	C14H14
5.	Tridecane, 6-propyl- (9CI)	226	C16H34
6.	1,1'-Biphenyl, 2,4'-dimethyl- (9CI)	182	C14H14
7.	Benzene, 1-methyl-4-(phenylmethyl)- (9CI)	182	C14H14

Sample file: >P3399 Spectrum #: 1041
Search speed: 1 Tilting option: N No. of ion ranges searched: 49

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	40	7225663	21884	"BIGDB	68	62	0	0	52	50	12	41

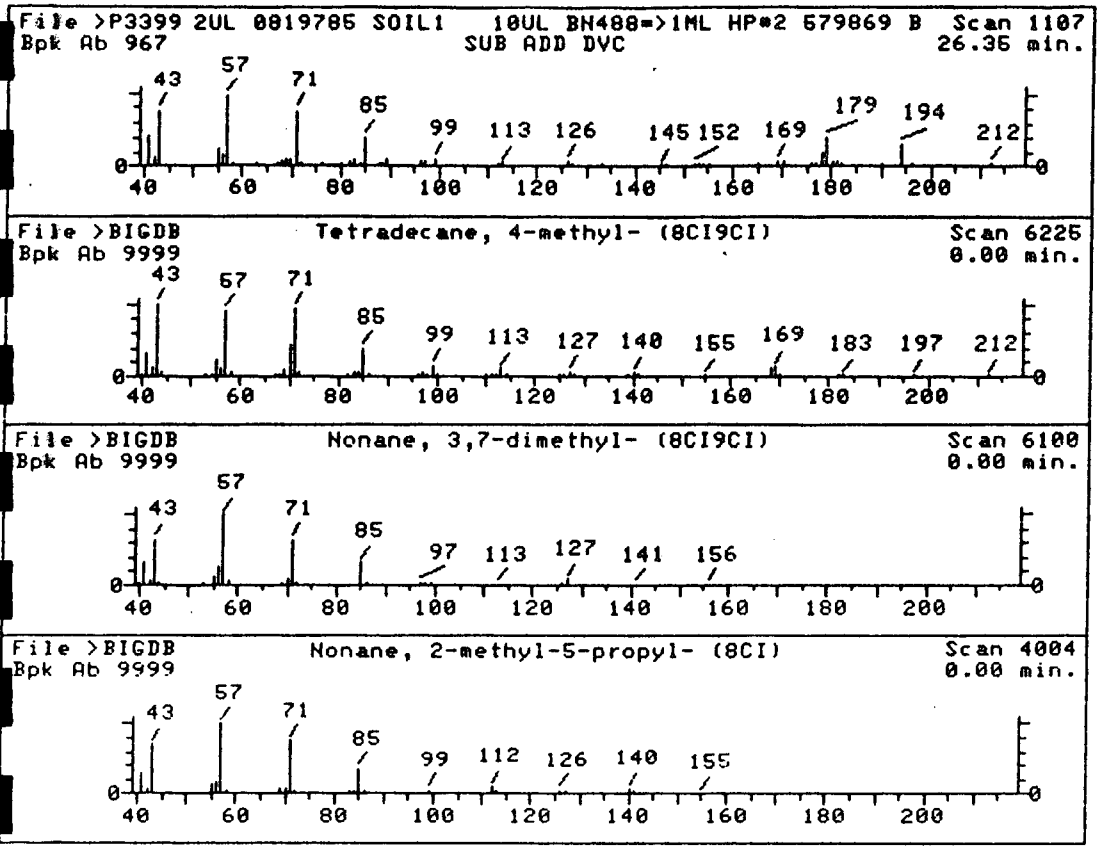


Unknown #,13
Area = 65142.00 Tentative Concentration is 16.00

1.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
2.	Decane, 5-propyl- (8CI)	184 C13H28
3.	Tritetracontane (8CI9CI)	604 C43H88
4.	Hexadecane (8CI9CI)	226 C16H34
5.	Dodecane, 2,6,11-trimethyl- (8CI9CI)	212 C15H32
6.	Dodecane, 2,7,10-trimethyl- (9CI)	212 C15H32
7.	Octane, 2,3,7-trimethyl- (9CI)	156 C11H24

Sample file: >P3399 Spectrum #: 1086
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	83	54833486	6161	"BIGDB	95	38	2	0	71	1	57	29
2.	79*	17312628	4003	"BIGDB	54	57	2	0	90	8	48	31
3.	78	7098217	6150	"BIGDB	62	106	2	0	78	5	55	13
4.	78	544763	6146	"BIGDB	78	42	2	0	84	5	55	19
5.	76	31295564	3984	"BIGDB	73	33	1	0	71	10	45	28
6.	74	74645980	3988	"BIGDB	70	39	0	0	67	12	39	46
7.	71	62016346	3962	"BIGDB	68	25	1	0	80	13	39	33

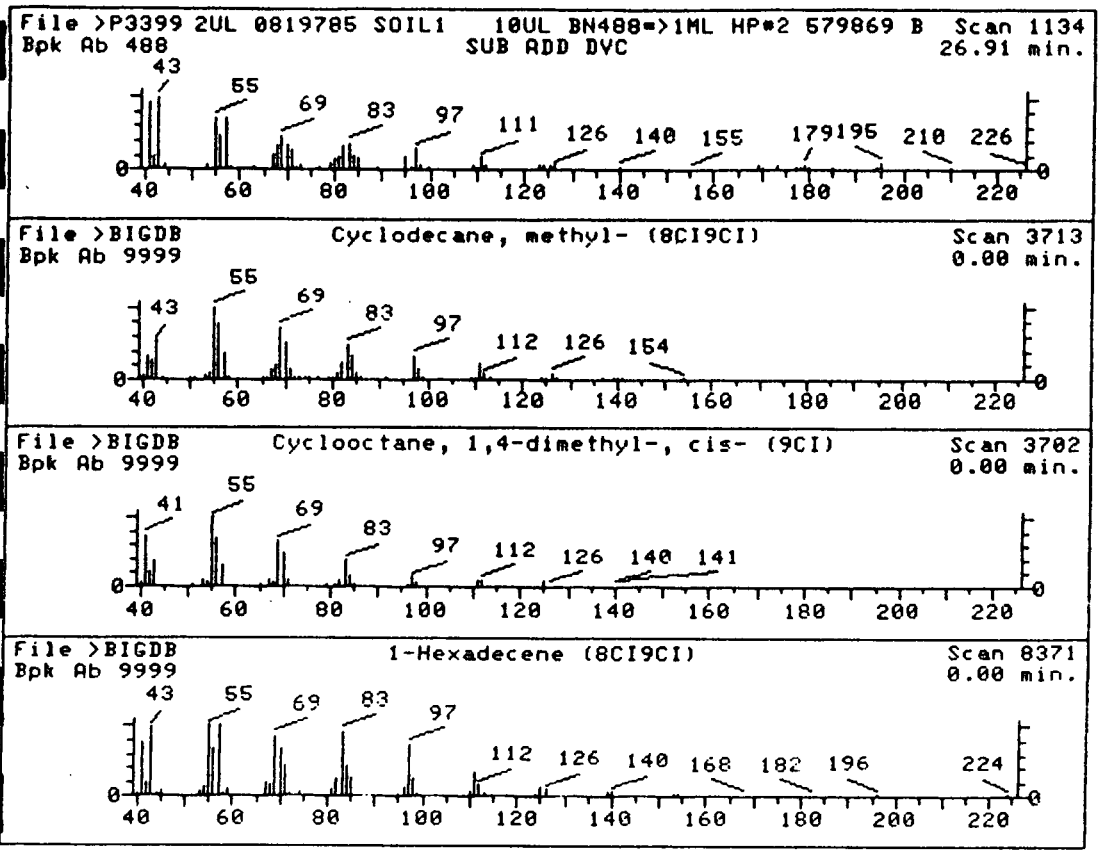


Unknown #,14
Area = 36598.00 Tentative Concentration is 9.00

1.	Tetradecane, 4-methyl- (8CI9CI)	212 C15H32
2.	Nonane, 3,7-dimethyl- (8CI9CI)	156 C11H24
3.	Nonane, 2-methyl-5-propyl- (8CI)	184 C13H28
4.	Dodecane, 2-methyl-6-propyl- (9CI)	226 C16H34
5.	Hexadecane (8CI9CI)	226 C16H34
6.	Tridecane, 6-propyl- (9CI)	226 C16H34
7.	Hexadecane, 7,9-dimethyl- (8CI9CI)	254 C18H38

Sample file: >P3399 Spectrum #: 1107
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	59*	25117242	6225	"BIGDB	76	53	2	0	76	38	21	59

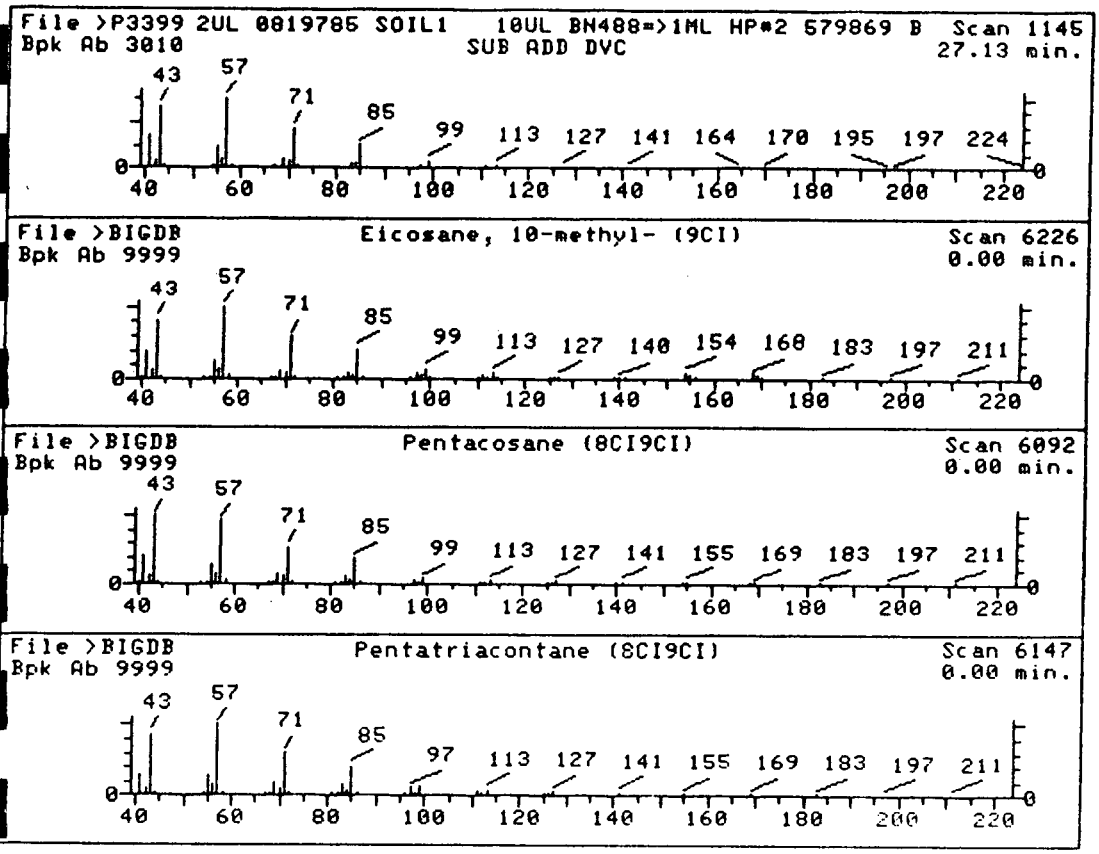


. Unknown #,15
Area = 38494.00 Tentative Concentration is 9.00

1.	Cyclodecane, methyl- (8CI9CI)	154 C11H22
2.	Cyclooctane, 1,4-dimethyl-, cis- (9CI)	140 C10H20
3.	1-Hexadecene (8CI9CI)	224 C16H32
4.	Hexadecane, 1,1-bis(dodecyloxy)- (9CI)	594 C40H82O2
5.	Cyclopropane, nonyl- (9CI)	168 C12H24
6.	Cyclopentane, (2-methylpropyl)- (9CI)	126 C9H18
7.	1-Tetradecanol (8CI9CI)	214 C14H30O

Sample file: >P3399 Spectrum #: 1134
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	74*	13151434	3713	"BIGDB	66	53	0	0	50	40	28	78

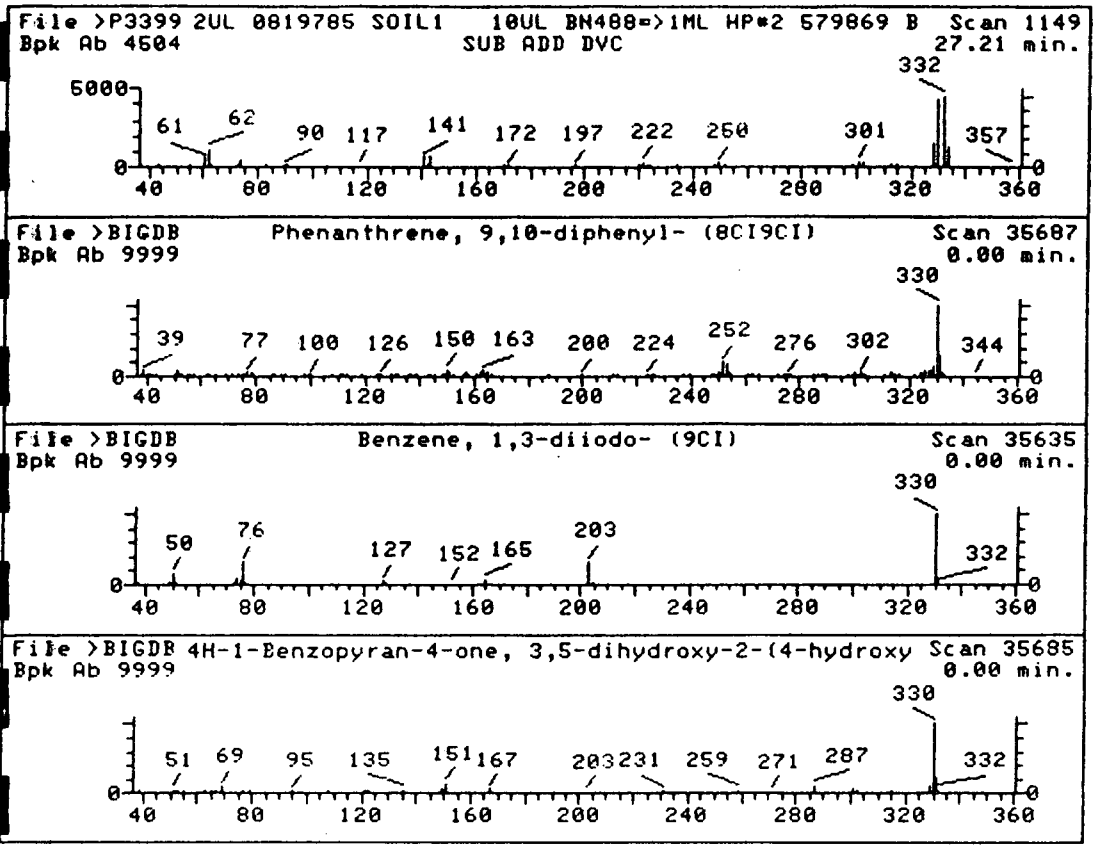


. Unknown #,17
Area = 37556.00 Tentative Concentration is 9.00

1.	Eicosane, 10-methyl- (9CI)	296 C21H44
2.	Pentacosane (8CI9CI)	352 C25H52
3.	Pentatriacontane (8CI9CI)	492 C35H72
4.	Hexadecane (8CI9CI)	226 C16H34
5.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
6.	Pentadecane (8CI9CI)	212 C15H32
7.	Heptadecane (8CI9CI)	240 C17H36

Sample file: >P3399 Spectrum #: 1145
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	83	54833237	6226	"BIGDB	83	50	2	0	74	5	57	23
2.	83	629992	6092	"BIGDB	79	61	2	0	84	4	57	21
3.	78	630079	6147	"BIGDB	64	87	2	0	71	4	55	14
4.	78	544763	6146	"BIGDB	74	46	2	0	87	2	55	18
5.	78	54833486	6161	"BIGDB	76	57	2	0	77	5	55	19
6.	78	629629	6265	"BIGDB	69	51	2	0	78	4	55	15
7.	78	629282	6090	"BIGDB	69	52	2	0	84	4	55	15

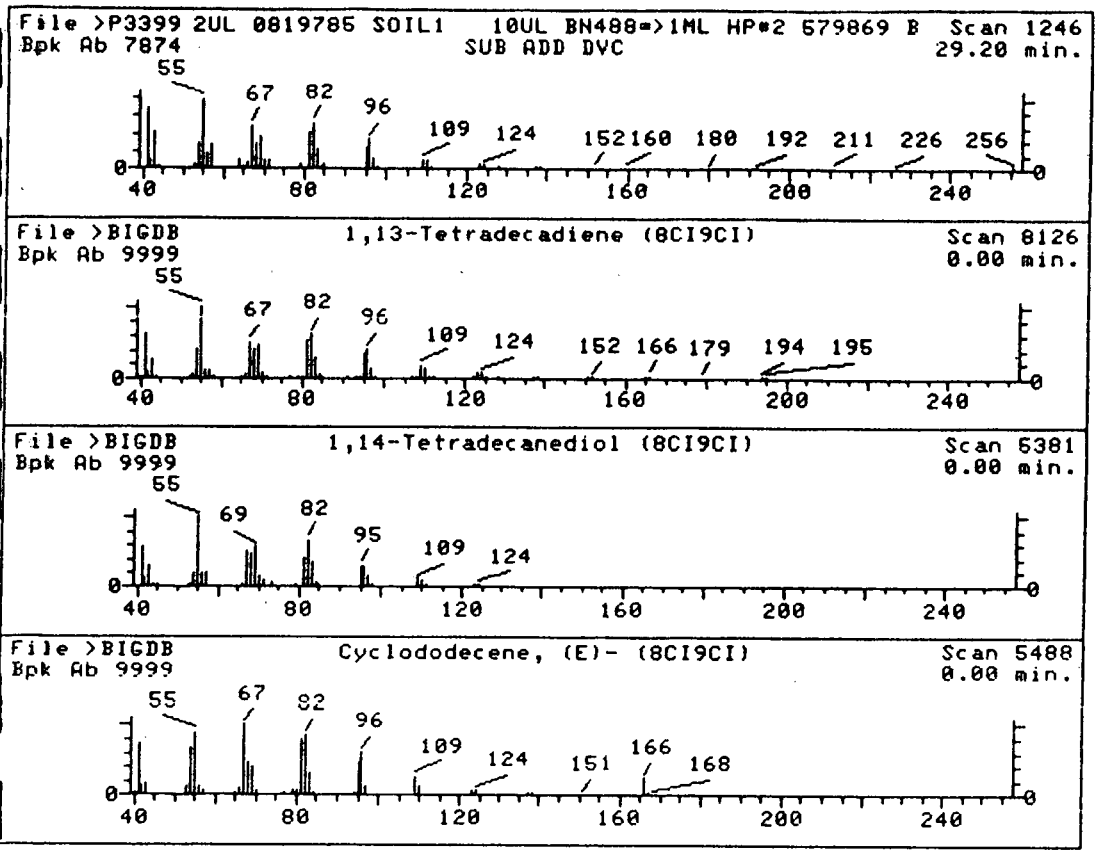


. Unknown #,18
Area = 62484.00 Tentative Concentration is 15.00

1.	Phenanthrene, 9,10-diphenyl- (8CI9CI)	330	C26H18
2.	Benzene, 1,3-diiodo- (9CI)	330	C6H4I2
3.	4H-1-Benzopyran-4-one, 3,5-dihydroxy-2-(4-hydroxy-3-methoxyphenyl)-7-methoxy- (9CI)	330	C17H14O7

Sample file: >P3399 Spectrum #: 1149
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15*	602153	35687	"BIGDB	22	135	3	0	97	60	3	12

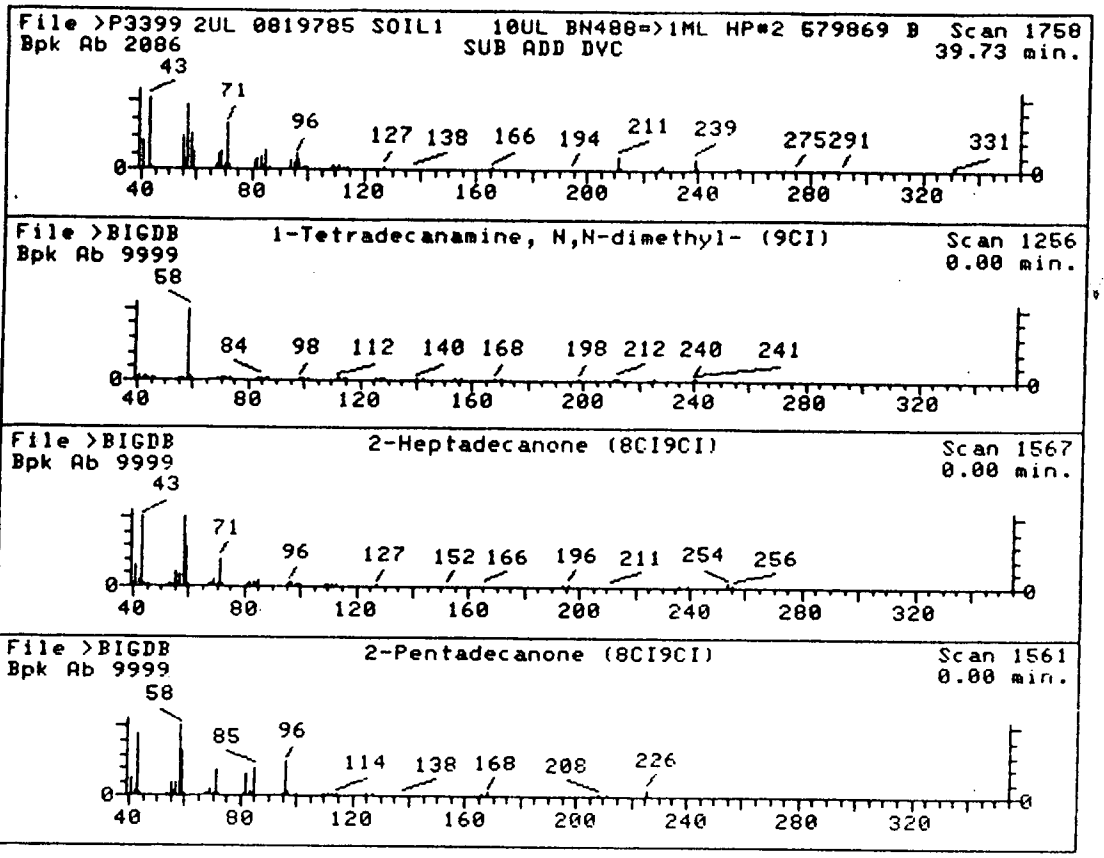


. Unknown #,19
Area = 311290.0 Tentative Concentration is 75.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	1,14-Tetradecanediol (8CI9CI)	230 C14H30O2
3.	Cyclododecene, (E)- (8CI9CI)	166 C12H22
4.	Cyclododecanol (8CI9CI)	184 C12H24O
5.	Cyclododecene, (Z)- (8CI9CI)	166 C12H22
6.	9-Octadecen-1-ol, (Z)- (8CI9CI)	268 C18H36O
7.	1,12-Tridecadiene (8CI9CI)	180 C13H24

Sample file: >P3399 Spectrum #: 1246
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	86	21964498	8126	"BIGDB	117	11	1	0	83	10	59	73
2.	73	19812647	5381	"BIGDB	102	41	1	0	81	25	32	61



. Unknown #,20
Area = 64436.00 Tentative Concentration is 16.00

1.	1-Tetradecanamine, N,N-dimethyl- (9CI)	241 C16H35N
2.	2-Heptadecanone (8CI9CI)	254 C17H34O
3.	2-Pentadecanone (8CI9CI)	226 C15H30O
4.	2-Hexanone, 5-methyl- (8CI9CI)	114 C7H14O
5.	Methanamine, N,N-dimethyl- (9CI)	59 C3H9N
6.	Propanenitrile, 3-(ethylamino)- (9CI)	98 C5H10N2
7.	Oxirane, 2,3-diethyl- (9CI)	100 C6H12O

Sample file: >P3399 Spectrum #: 1758
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	M	DM	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	112754	1256	"BIGDB	32	58	1	0	49	51	5	17

3/12

QUANTITATION FOR HSL COMPOUNDS AND TENTATIVELY IDENTIFIED COMPOUNDS

FOR SOIL/SEDIMENT SAMPLES

BSA0819785
Scan 1010
Hexacosane : $\frac{(48609)(80)(1000}{(169651)(1.0)(2.0)(2.0007)(.51)}$

µg/kg = 11,000 µg/kg

$$\mu g/kg = \frac{(A_x)\ (I_s)\ (V_t)}{(A_{IS})\ (RF)\ (V_i)\ (W_s)\ (D)}$$

9/16/87
JJ Bodnar

V_t = 1000 FOR LOW LEVEL (UNLESS GPC'd)

V_t = 2000 FOR MEDIUM LEVEL

$D = \frac{100 - \%\ \text{MOISTURE}}{100}$ (AFTER DECANTATION)

W_s = G. SAMPLE

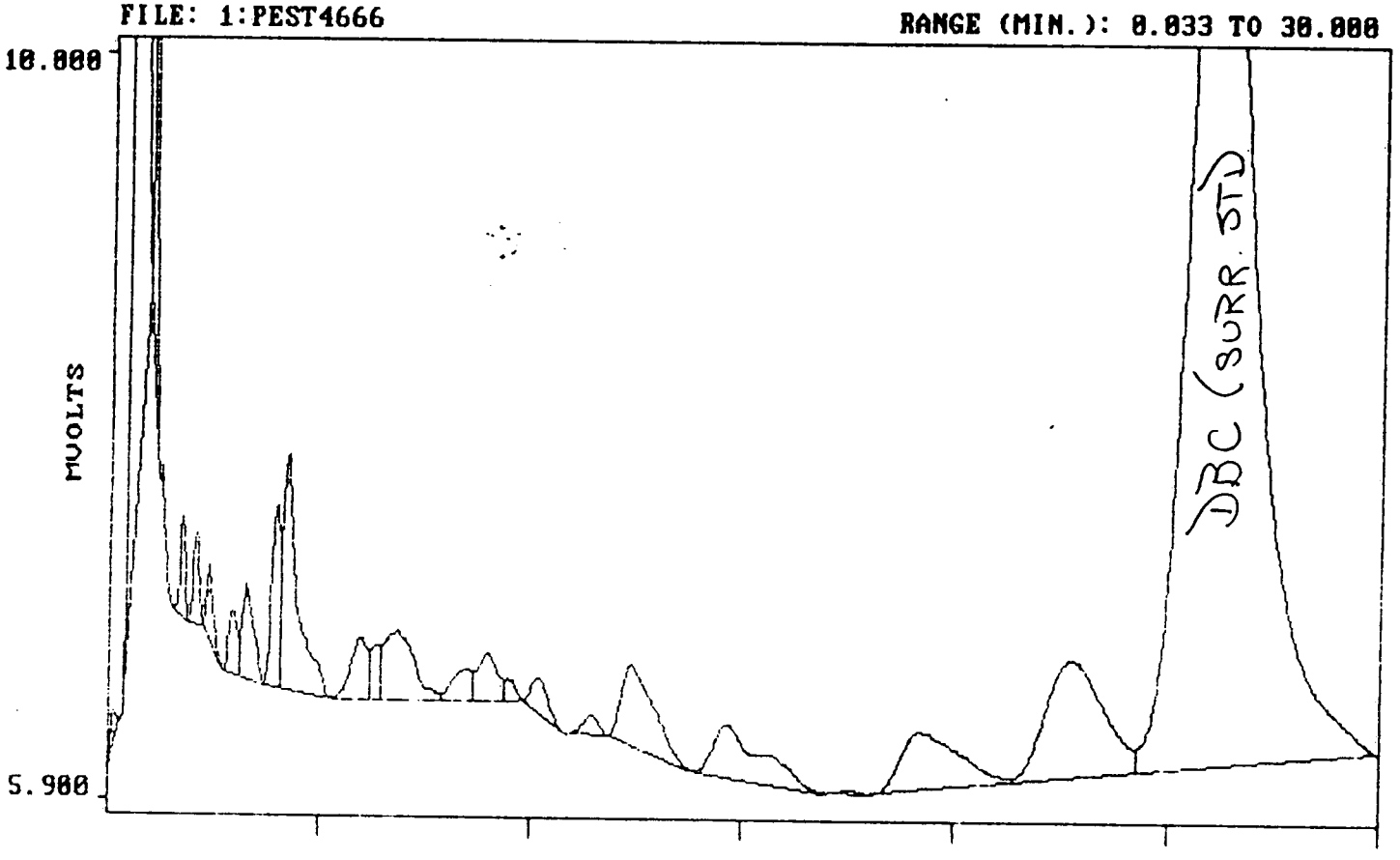
*IF SECONDARY ION MUST BE USED BECAUSE OF INTERFERENCES A RF MUST BE GENERATED USING THE SECONDARY ION.

BSA0819785

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:17:03:53 Date:MON 14 SEP 87

Time:18:31:48 Date:FRI 11 SEP 87
Method:PEST1



Channel #.....REINT Time:16:31:12 Date:MON 14 SEP 87

Sample name.....
Data file.....1:PEST4666
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....18:31:48 Acq. date....FRI 11 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..24
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.575	LINDANE	0	
3.130	HEPTACHLOR	0	
3.770	ALDRIN	0	
7.139	ENDOSULFAN I	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
27.978	DBC/METHOX/END.K	0	

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AREA PERCENT REPORT

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Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.169			0.037	2199	189	BB
2	0.536			84.052	5052274	858963	BB
3	0.973			0.330	19862	4162	BB
4	1.732			0.078	4711	586	BB
5	2.069		~~alpha-BHC~~ HCK	0.090	5408	518	BB
6	2.381						

8/16

7	2.943	~~beta-BHC~~ MLK	0.086	5141	360	BV
8	3.266	~~delta-BHC~~ MLK	0.159	9572	539	VB
9	3.953		0.236	14204	1038	BV
10	4.217		0.528	31719	1350	VB
11	5.954	~~HEPTACHLOR EPOXI~~ MLK	0.162	9734	351	BV
12	6.329		0.078	4704	311	VV
13	6.798		0.315	18922	391	VV
14	8.375	~~P,P'-DDE~~ MLK	0.094	5652	178	VV
15	8.929	~~DIELDRIN~~ MLK	0.149	8960	271	VV
16	9.429		0.034	2017	125	VB
17	10.185		0.091	5453	207	BB
18	11.404		0.047	2798	114	BB
19	12.370	~~P,P'-DDD~~ MLK	0.415	24928	465	BB
20	14.644		0.386	23184	297	BB
21	19.217		0.532	31989	327	BV
22	22.787 S	MIREX (STD)	1.059	63641	668	VV
23	26.096	DBC (SURR. STD)	10.974	659664 200/2286	6199	VB
TOTALS			100.000	6010908		

1700ug/Kg DBC SPIKED INTO SAMPLE

132% REC

Analytical Data Package

for

N.J.D.E.P.

at

N.J. Transit / Conrail Meadows Yard

PART II

September 1987

Submitted by:

H2M LABS, INC.

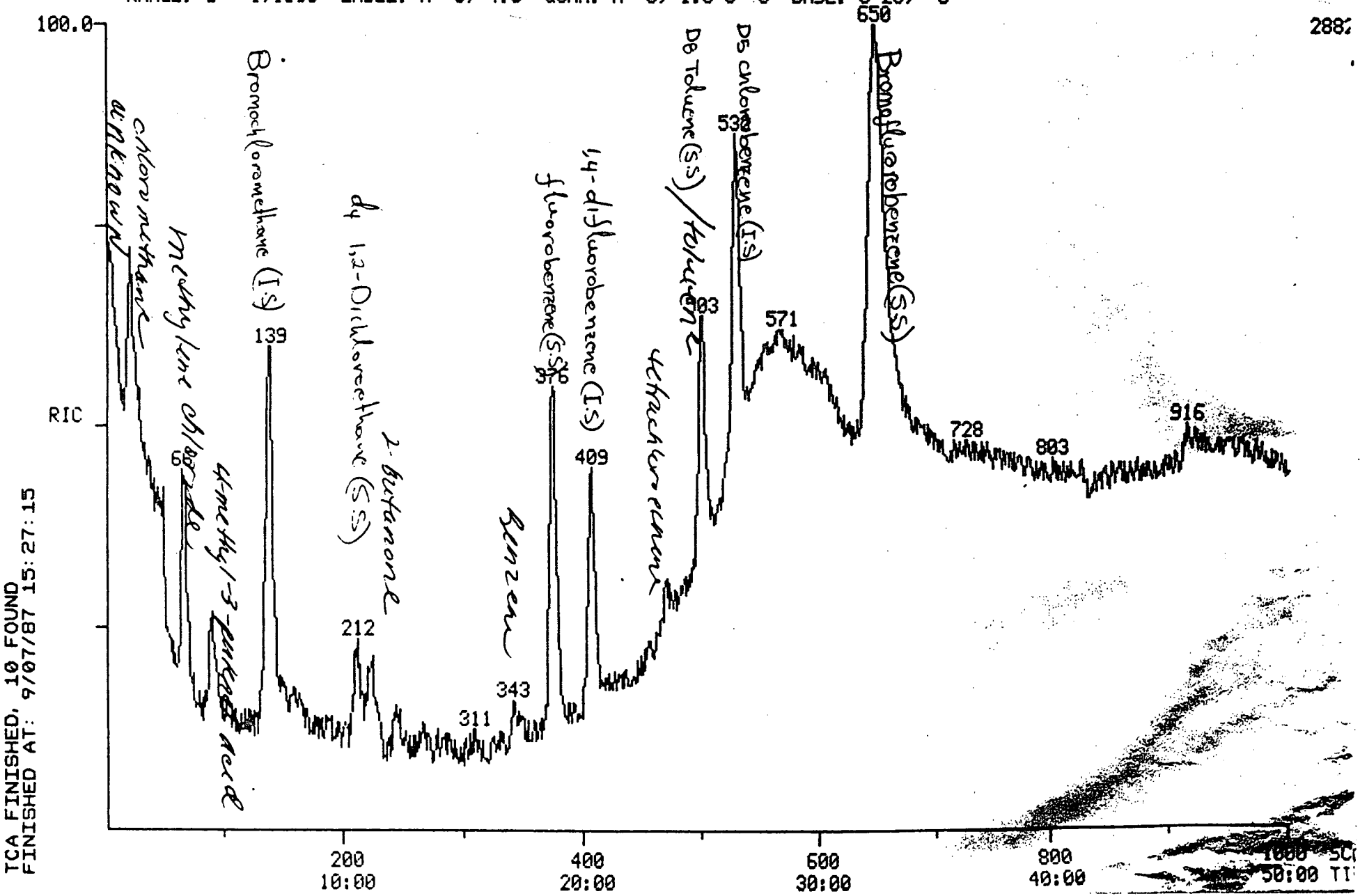
Consulting Engineers, Environmental Scientists, Architects and Planners
Melville, N.Y. Riverhead, N.Y. Fairfield, N.J.

III. 2. Reporting Package for NJDEP # Soil 2

RIC
08/28/87 17:04:00
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU7438 #1
CALI: PU7438 #2

SCANS 1 TO 1000



TCA FINISHED, 10 FOUND
FINISHED AT: 9/07/87 15:27:15

318

QUANTITATION REPORT FILE: PU7438

DATA: PU7438.TI
8/28/87 17:04:00
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

1200

No	M/Z	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	139	6:57	1	1.000	A BB	47447.	30.000 UG/L	2.73
2	65	212	10:36	1	1.525	A BB	82891.	26.064 UG/L	2.37
3	50	26	1:18	1	0.187	A*BV	23889.	4.475 UG/L	0.41
4	NOT FOUND								
5	62	38	1:54	1	0.273	A*BB	1449.	0.623 UG/L	0.06
6	64	61	3:03	1	0.439	A BB	466.	0.194 UG/L	0.02
7	84	~~84~~ 64	4:12	1	0.604	A BB	~~887~~ 85 708	0.213 UG/L	0.02
~~8~~	~~43~~	~~90~~	~~4:30~~	~~1~~	~~0.647~~	~~A BB~~	~~194088.~~	~~42.299 UG/L~~	~~3.85~~
~~9~~	~~76~~	~~73~~	~~3:39~~	~~1~~	~~0.525~~	~~A BB~~	~~657.~~	~~18.535 UG/L~~	~~1.69~~
10	96	131	6:33	1	0.942	A BB	2692.	0.809 UG/L	0.07
11	NOT FOUND								
12	96	186	9:18	1	1.338	A BB	291.	0.139 UG/L	0.01
13	83	202	10:06	1	1.453	A BB	1022.	0.165 UG/L	0.02
14	62	214	10:42	1	1.540	A*BB	2308.	0.344 UG/L	0.03
15	101	134	6:42	1	0.964	A BB	397.	0.105 UG/L	0.01
~~16~~	~~85~~	~~52~~	~~2:36~~	~~1~~	~~0.374~~	~~A BB~~	~~516.~~	~~7.865 UG/L~~	~~0.70~~
~~17~~	~~56~~	~~143~~	~~7:09~~	~~1~~	~~1.029~~	~~A*BB~~	~~1701.~~	~~198.665 UG/L~~	~~18.09~~
~~18~~	~~53~~	~~151~~	~~7:33~~	~~1~~	~~1.086~~	~~A*BB~~	~~696.~~	~~182.991 UG/L~~	~~16.67~~
19	114	409	20:27	19	1.000	A BB	213424.	30.000 UG/L	2.73

1200 SJB

57006

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~~20~~	~~43~~	~~158~~	~~7:54~~	~~19~~	~~0.386~~	~~A BB~~	~~22760.~~	~~27.330~~	~~UG/L~~	~~2.49~~
21	NOT FOUND									
22	NOT FOUND									
~~23~~	~~NOT FOUND~~									
24	83	261	13:03	19	0.638	A*BV	2124.	0.692	UG/L	0.06
25	63	281	14:03	19	0.687	A*BB	1292.	0.787	UG/L	0.07
26	NOT FOUND									
27	130	300	15:00	19	0.733	A BB	258.	0.076	UG/L	0.01
28	129	341	17:03	19	0.834	A*BB	977.	0.335	UG/L	0.03
29	97 B	298	14:54	19	0.729	A BB	1003.	0.315	UG/L	0.03
30	~~NOT FOUND~~ 343						23385	15 NG		820
31	75	327	16:21	19	0.800	A BB	640.	0.251	UG/L	0.02
32	63	343	17:09	19	0.839	A BB	2000.	0.244	UG/L	0.02
33	173	407	20:21	19	0.995	A BB	1011.	0.613	UG/L	0.06
34	117	532	26:36	34	1.000	A BB	191761.	30.000	UG/L	2.73
~~35~~	~~43~~	~~340~~	~~17:00~~	~~34~~	~~0.639~~	~~A*BB~~	~~26758.~~	~~307.966~~	~~UG/L~~	~~28.05~~
~~36~~	~~43~~	~~359~~	~~17:57~~	~~34~~	~~0.675~~	~~A BB~~	~~10720.~~	~~32.985~~	~~UG/L~~	~~3.00~~
37	164	472	23:36	34	0.887	A BB	11846.	4.146	UG/L	0.38
38	83	470	23:30	34	0.883	A*BB	5125.	0.876	UG/L	0.08
39	92	507	25:21	34	0.953	A BB	17829.	2.339	UG/L	0.21
40	112	549	27:27	34	1.032	A*VV	7054.	0.897	UG/L	0.08
41	106	600	30:00	34	1.128	A*VB	~~8586.~~	2.238	UG/L	0.20 MISIDENT
~~42~~	~~104~~	~~597~~	~~29:51~~	~~34~~	~~1.122~~	~~A*BV~~	~~3544.~~	~~50.553~~	~~UG/L~~	~~4.60~~
~~43~~	~~106~~	~~625~~	~~31:15~~	~~34~~	~~1.175~~	~~A BB~~	~~1716.~~	~~19.071~~	~~UG/L~~	~~1.74~~
~~44~~	~~106~~	~~625~~	~~31:15~~	~~34~~	~~1.175~~	~~A BB~~	~~1716.~~	~~38.142~~	~~UG/L~~	~~3.47~~
45	146	802	40:06	34	1.508	A*BB	1185.	0.219	UG/L	0.02
46	146	831	41:33	34	1.562	A*BB	3017.	0.591	UG/L	0.05
47	146	836	41:48	34	1.571	A*VV	2990.	0.482	UG/L	0.04
48	96	376	18:48	34	0.707	A BV	341953.	29.226	UG/L	2.66
49	95	~~646~~ 606	32:18	34	1.214	A BB	163740.	24.859	UG/L	2.26

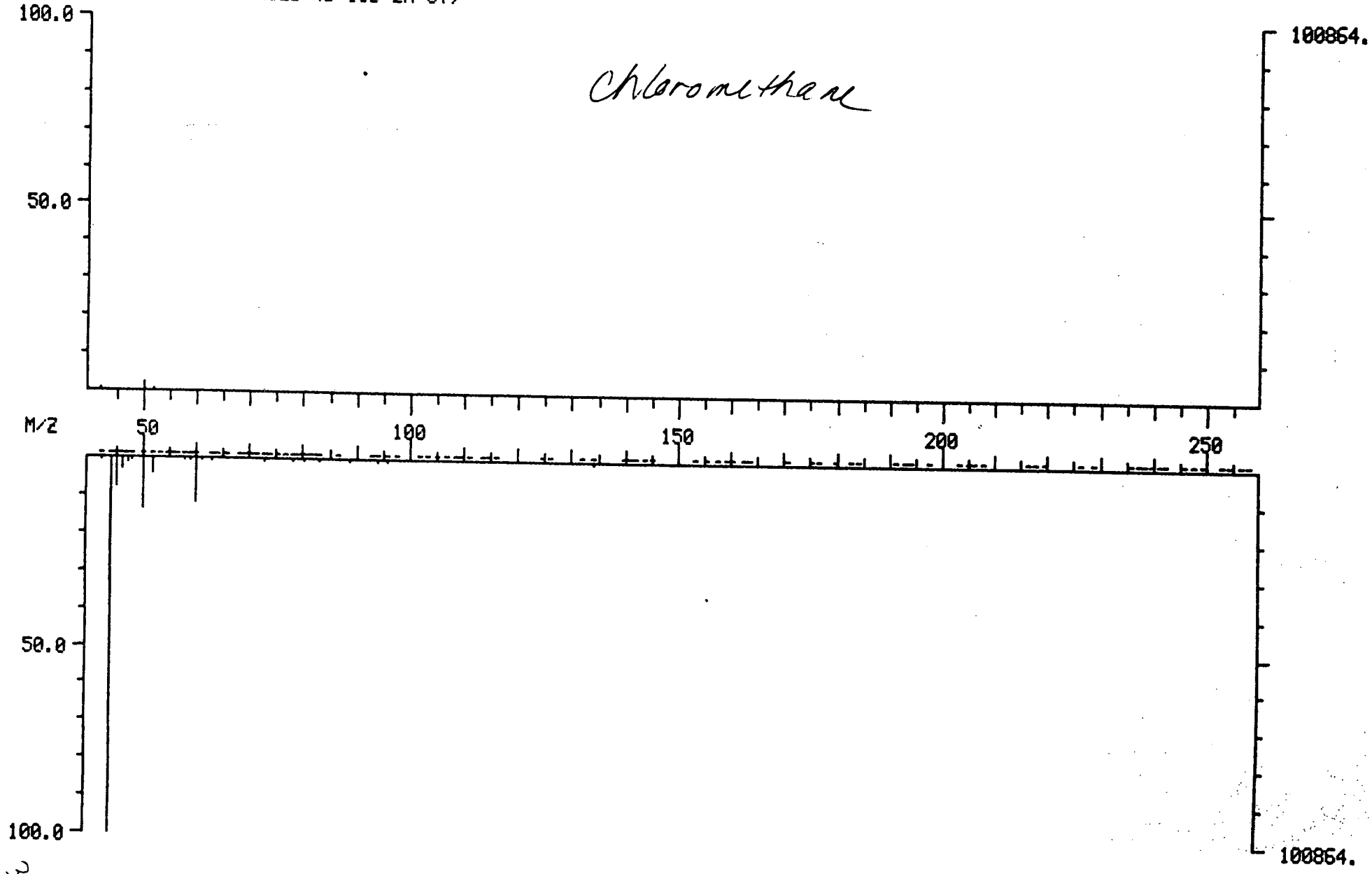
Non targeted compounds

	scan #	ref. pk.	area	Amt (ug/l)
1	4	4	170752	830 J,B
2	90	1	288632	1800 J
3	225	1	311968	2400 J

DUAL MASS SPECTRUM
08/28/87 17:04:00 + 1:18
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 #26
CALI: PU7438 #2

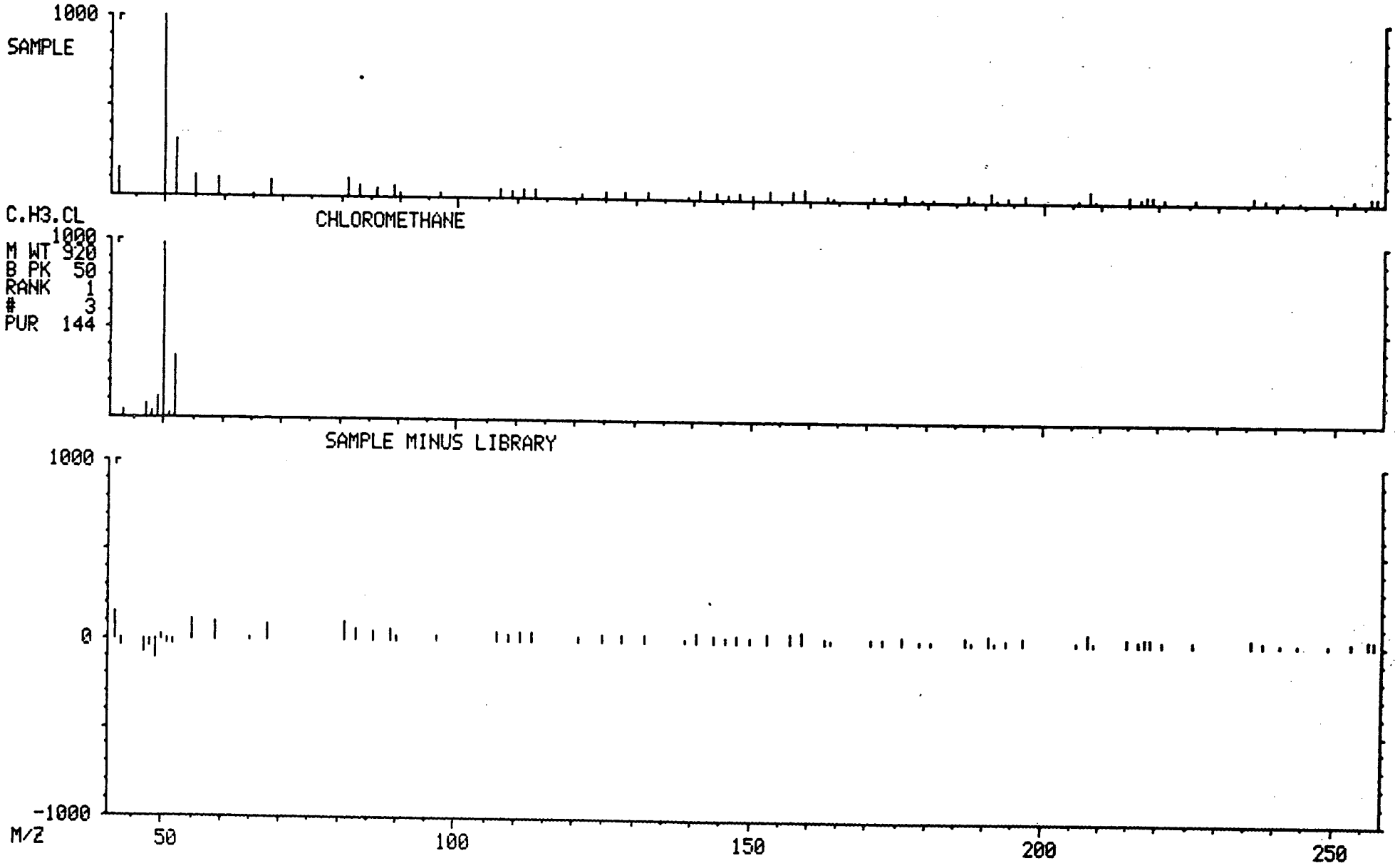
BASE M/Z: 50/ 44
RIC: 7903./ 167167.



LIBRARY SEARCH
08/28/87 17:04:00 + 1:18
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5ML5 MEOH)=>5ML5 H20
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 # 26
CALI: PU7438 # 2

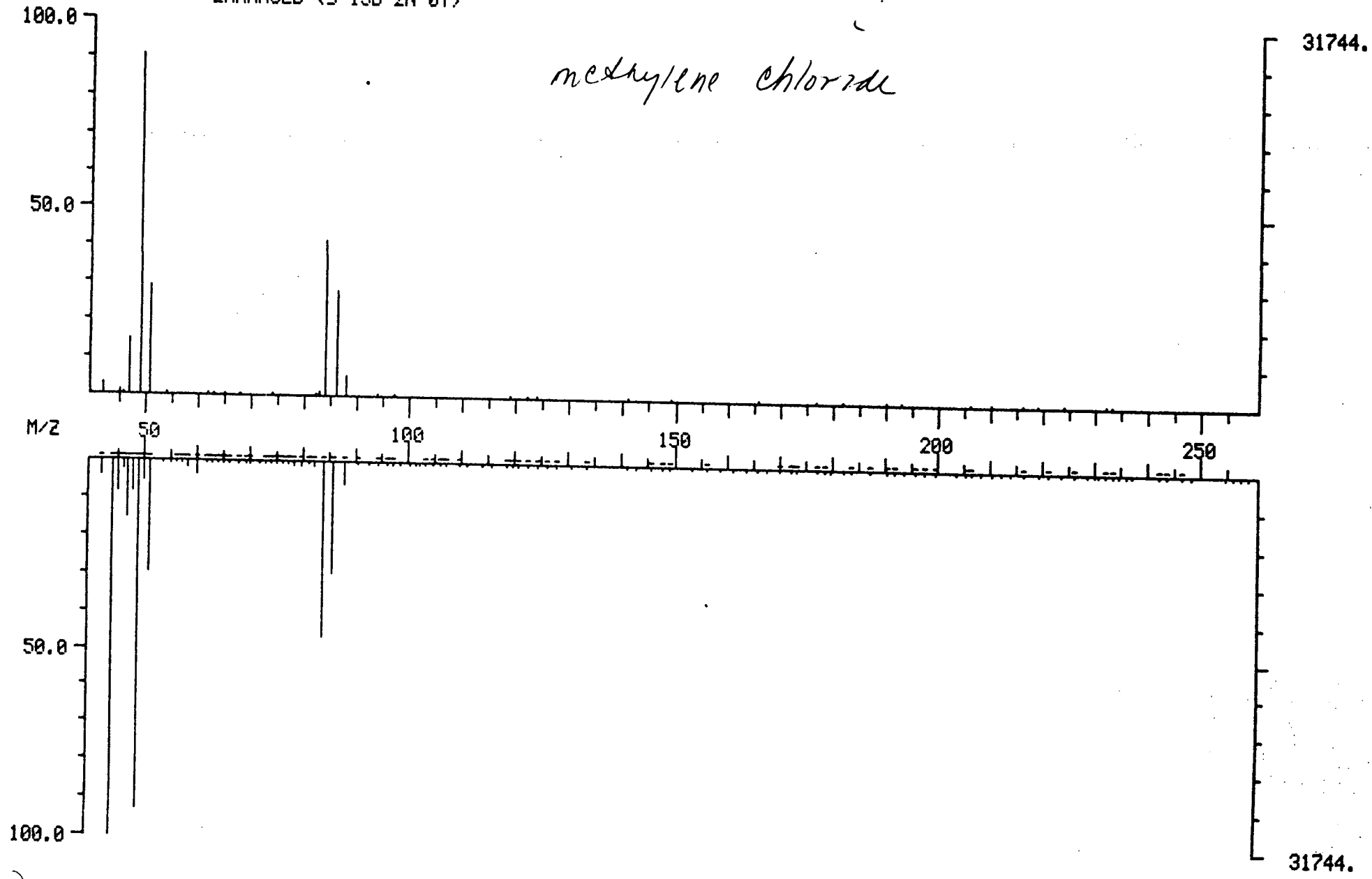
BASE M/Z: 50
RIC: 7903.



DUAL MASS SPECTRUM
08/28/87 17:04:00 + 3:18
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 #66
CALI: PU7438 #2

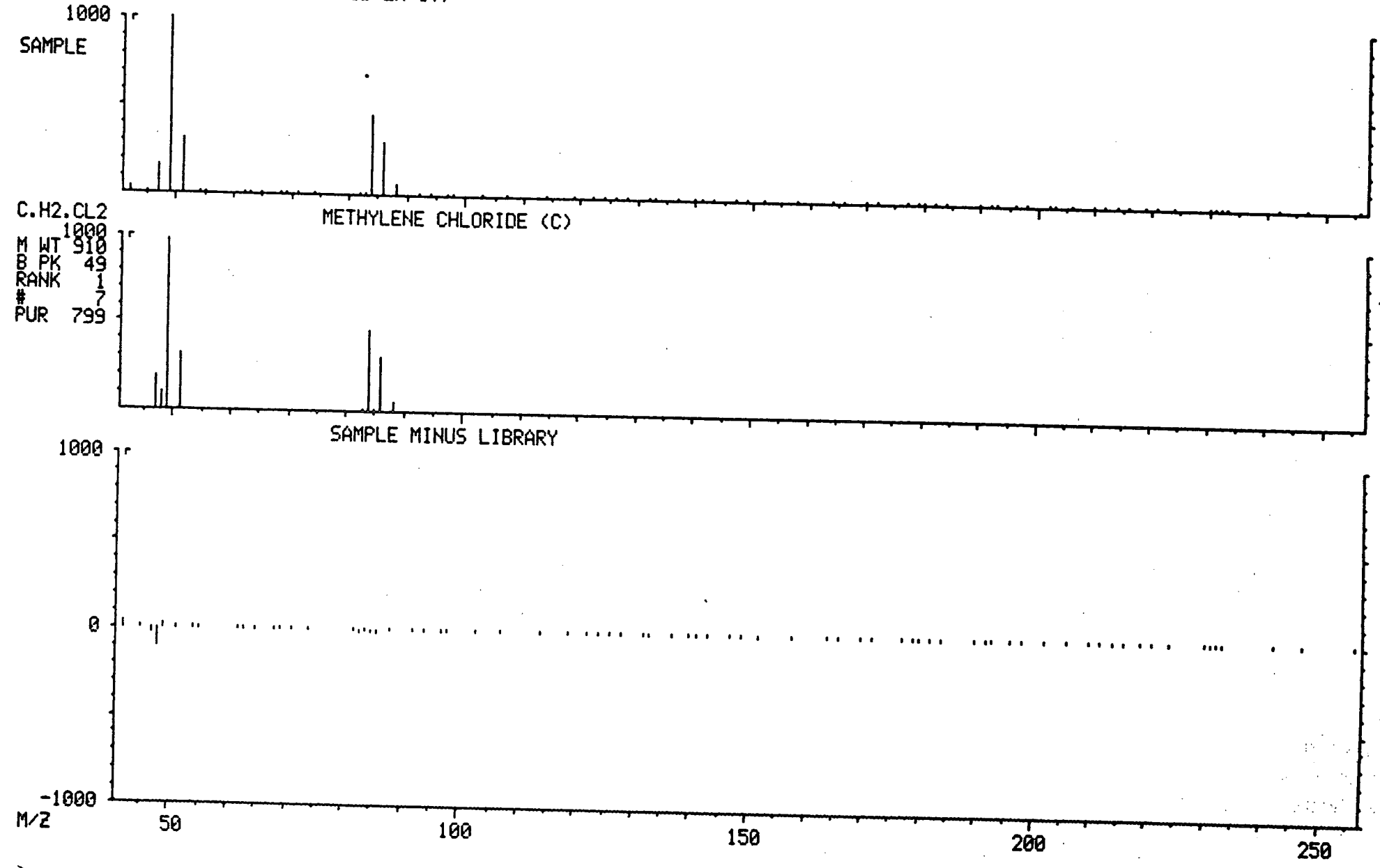
BASE M/Z: 49/ 44
RIC: 73471./ 128127.



LIBRARY SEARCH
08/28/87 17:04:00 + 3:18
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 # 66
CALI: PU7438 # 2

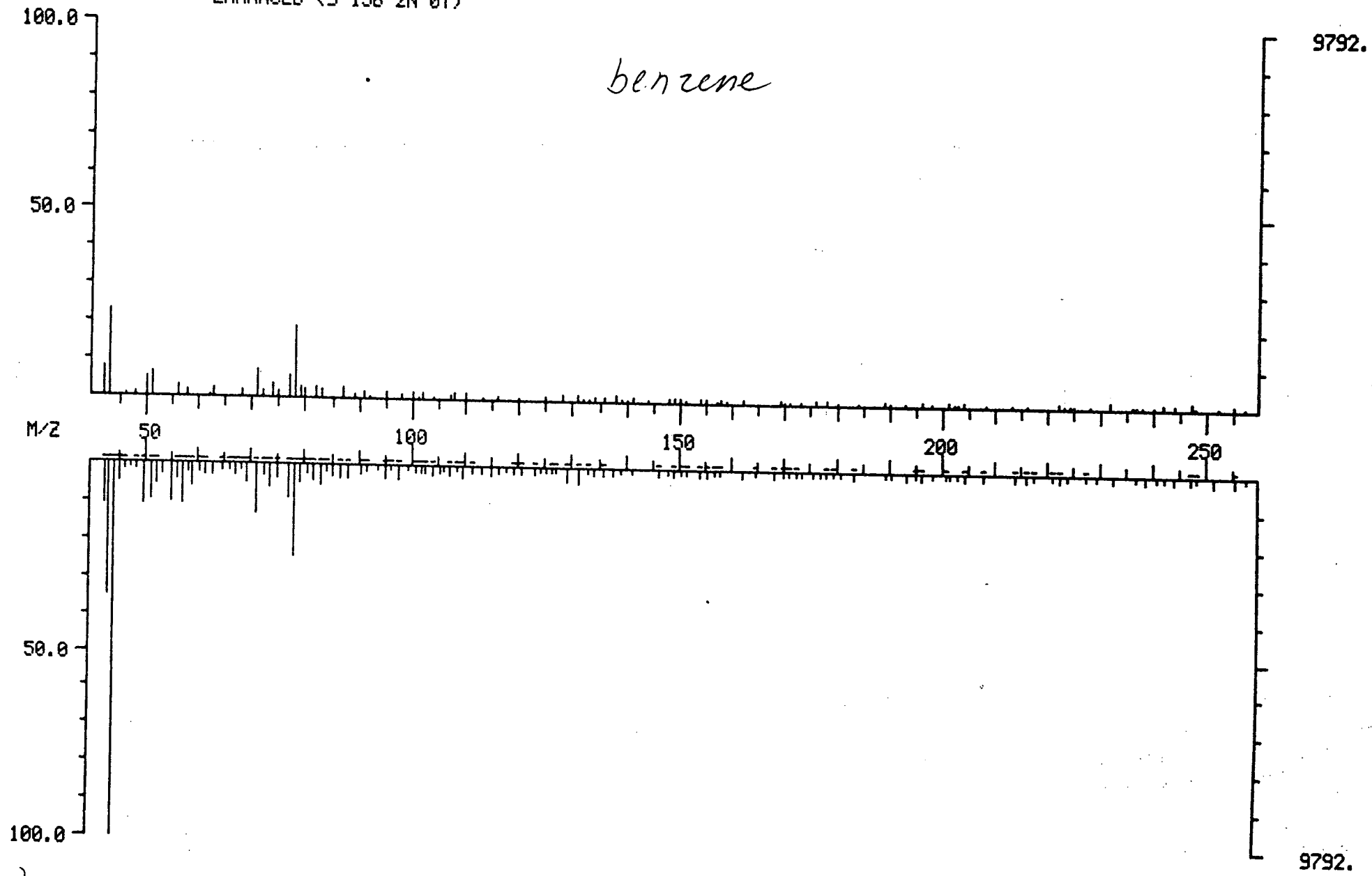
BASE M/Z: 49
RIC: 72959.



DUAL MASS SPECTRUM
08/28/87 17:04:00 + 17:09
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 #343
CALI: PU7438 #2

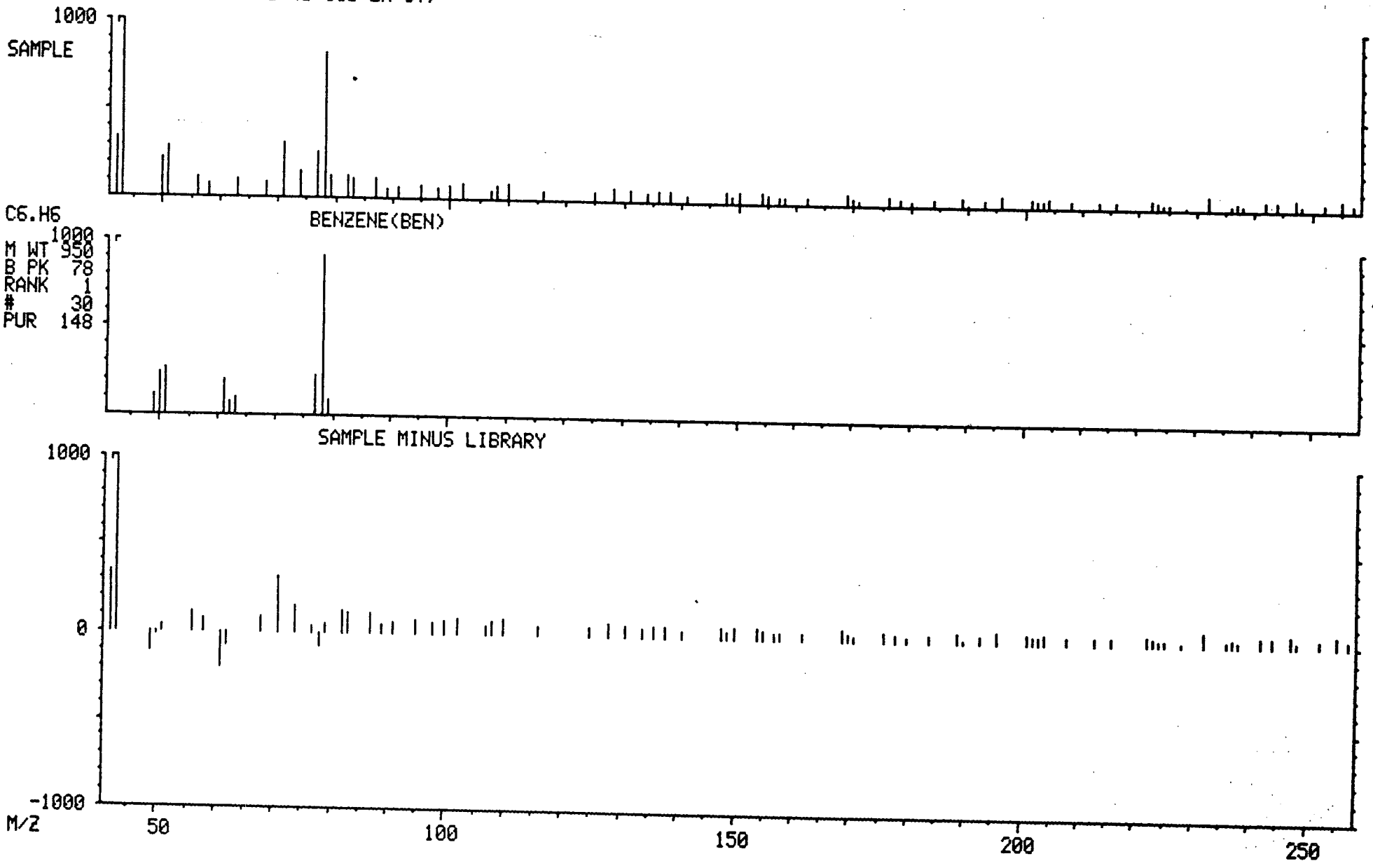
BASE M/Z: 43/ 44
RIC: 17823./ 45887.



LIBRARY SEARCH
08/28/87 17:04:00 + 17:09
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 # 343
CALI: PU7438 # 2

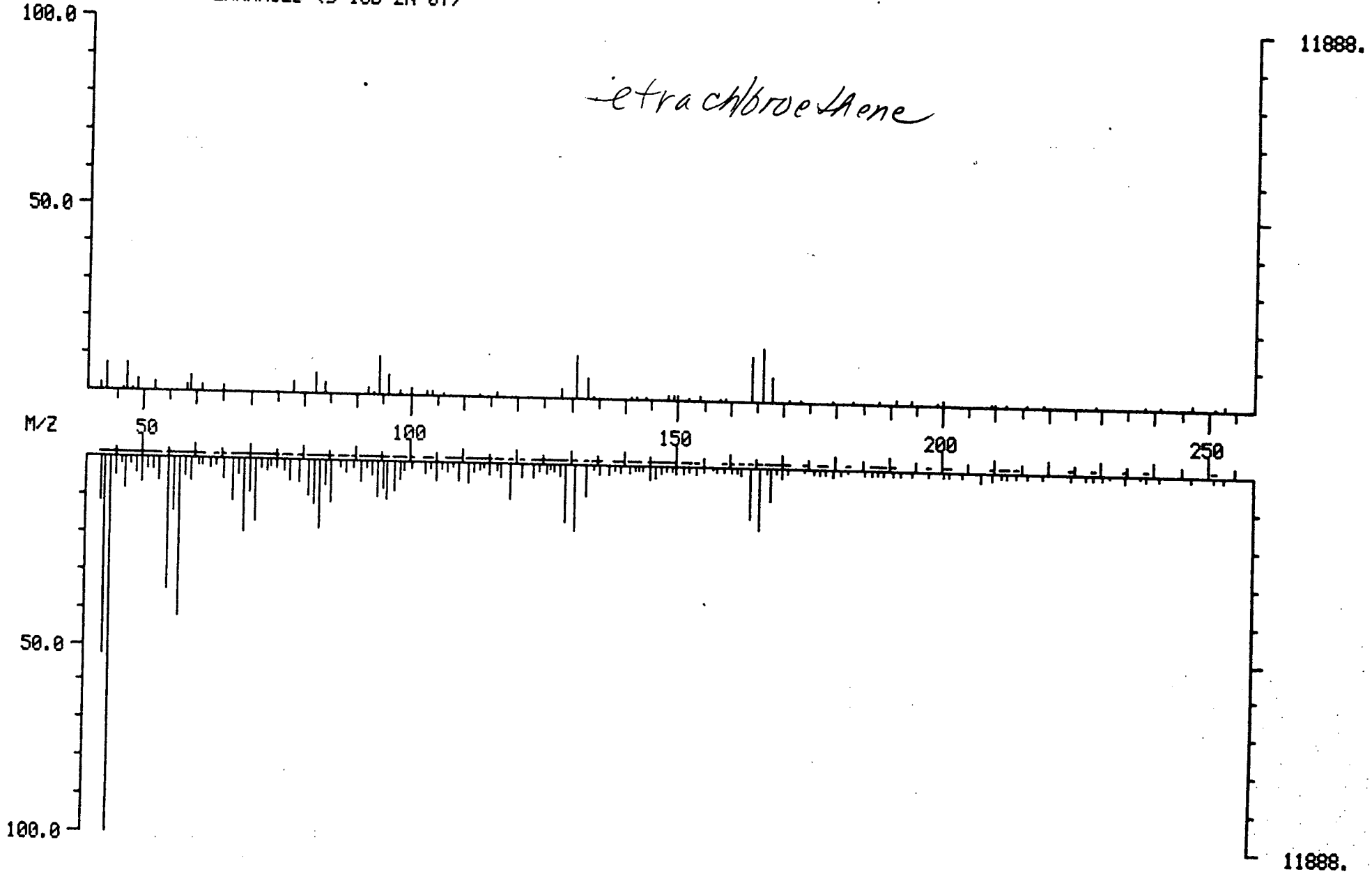
BASE M/Z: 43
RIC: 15855.



DUAL MASS SPECTRUM
08/28/87 17:04:00 + 23:36
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 #472
CALI: PU7438 #2

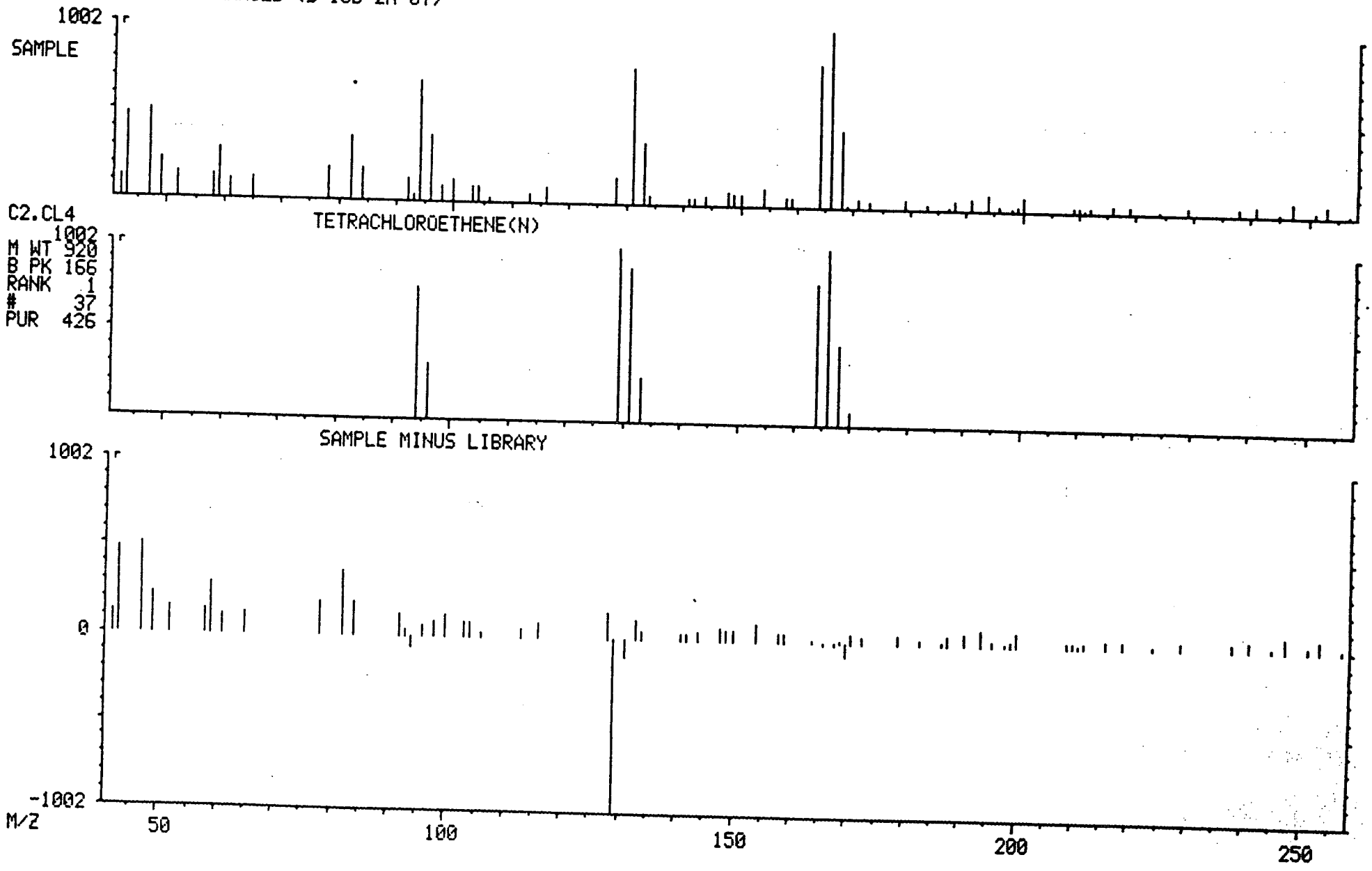
BASE M/Z: 166/ 44
RIC: 17151./ 89343.



LIBRARY SEARCH
08/28/87 17:04:00 + 23:36
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 # 472
CALI: PU7438 # 2

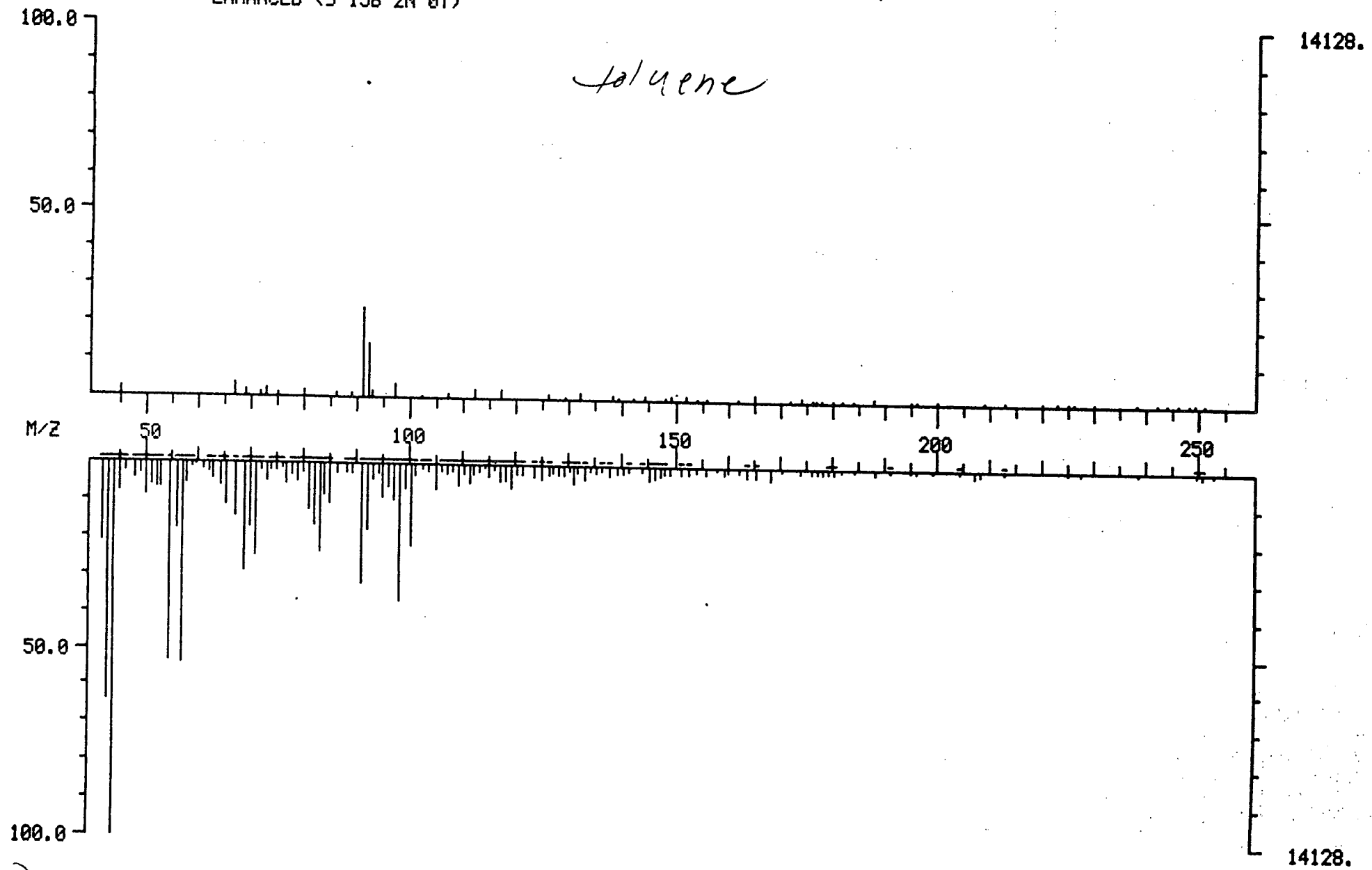
BASE M/Z: 166
RIC: 16991.



DUAL MASS SPECTRUM
08/28/87 17:04:00 + 25:21
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 #507
CALI: PU7438 #2

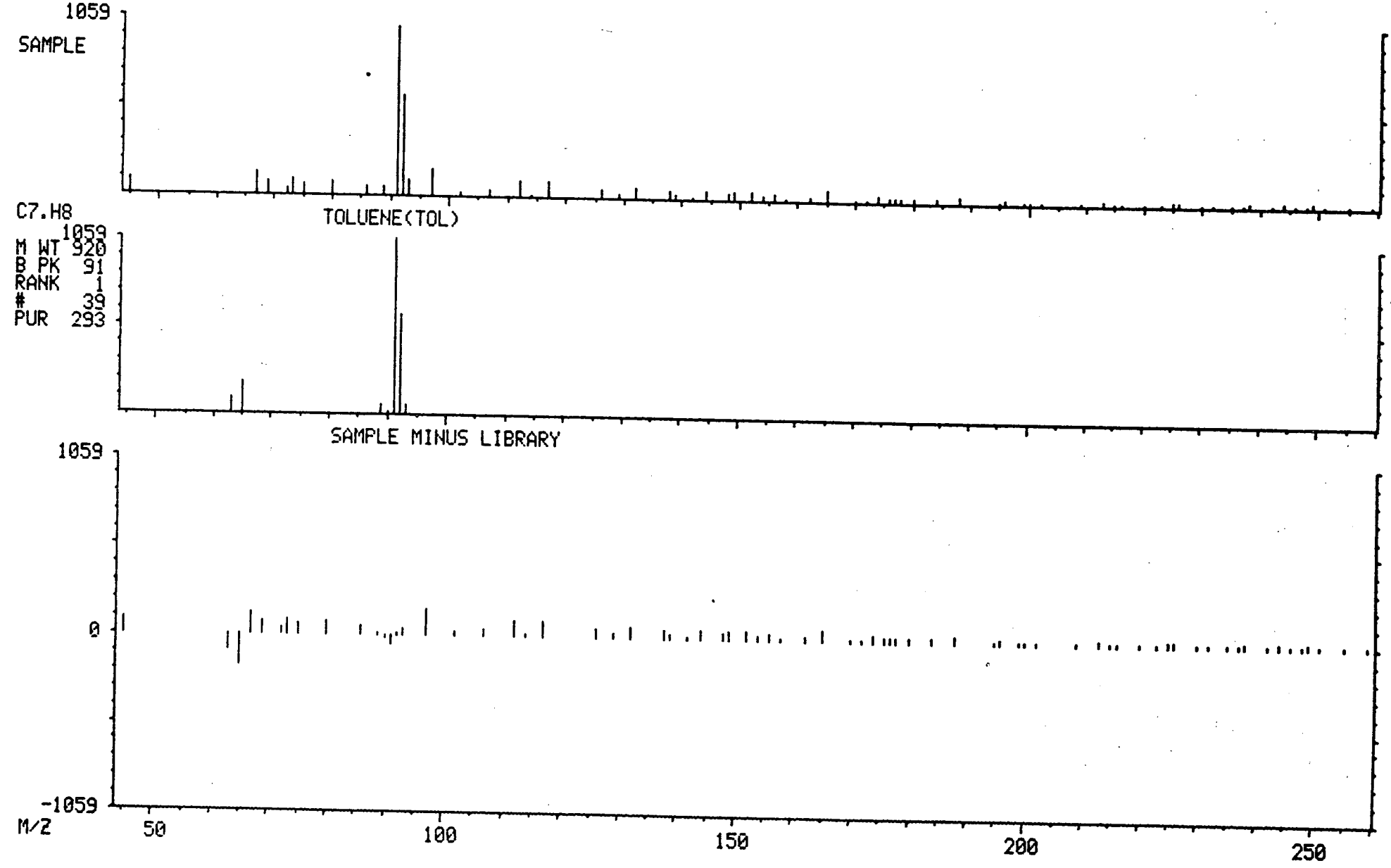
BASE M/Z: 91/ 44
RIC: 13807./ 124671.



LIBRARY SEARCH
08/28/87 17:04:00 + 25:21
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 # 507
CALI: PU7438 # 2

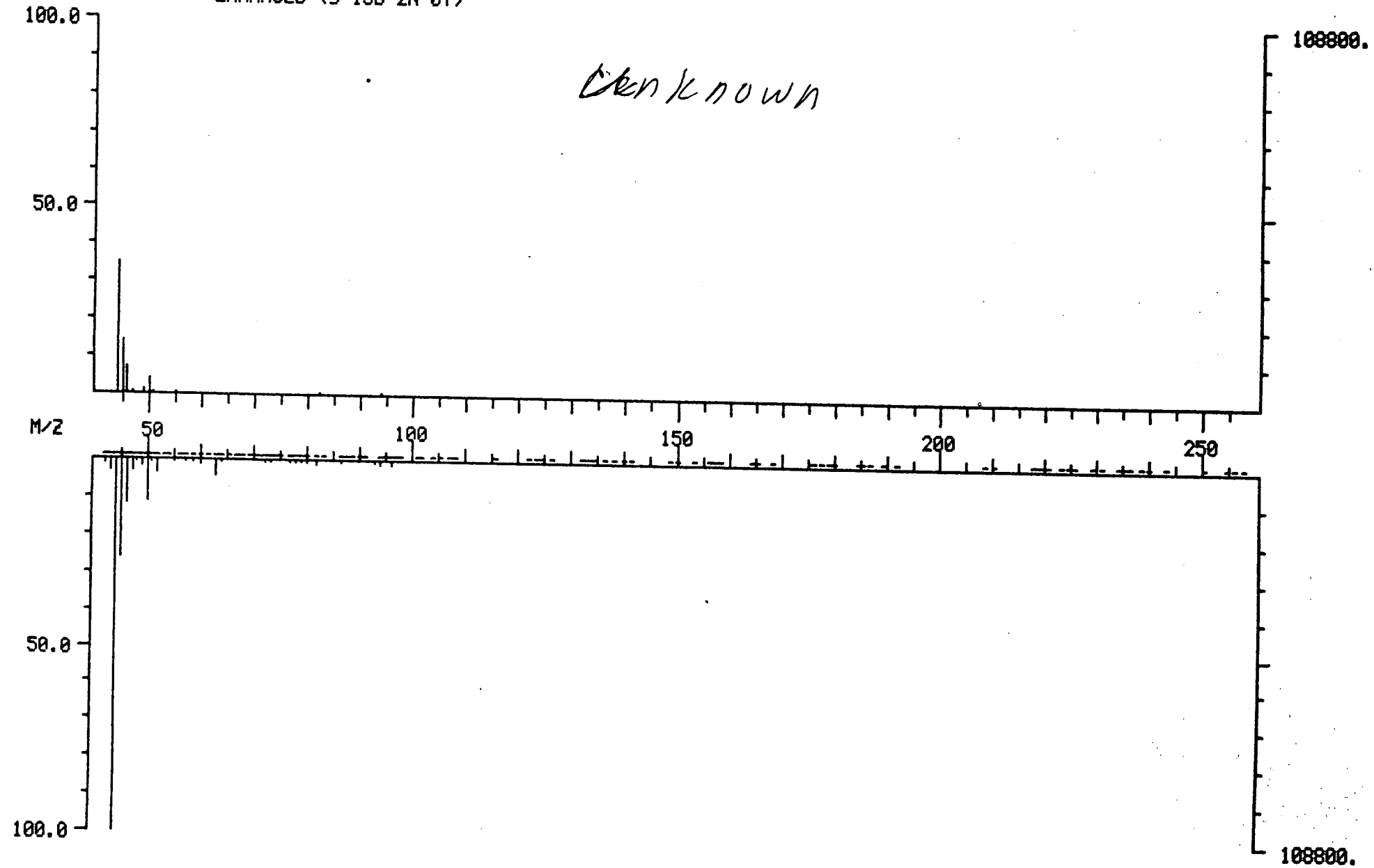
BASE M/Z: 91
RIC: 13663.



DUAL MASS SPECTRUM
08/28/87 17:04:00 + 0:12
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 #4
CALI: PU7438 #2

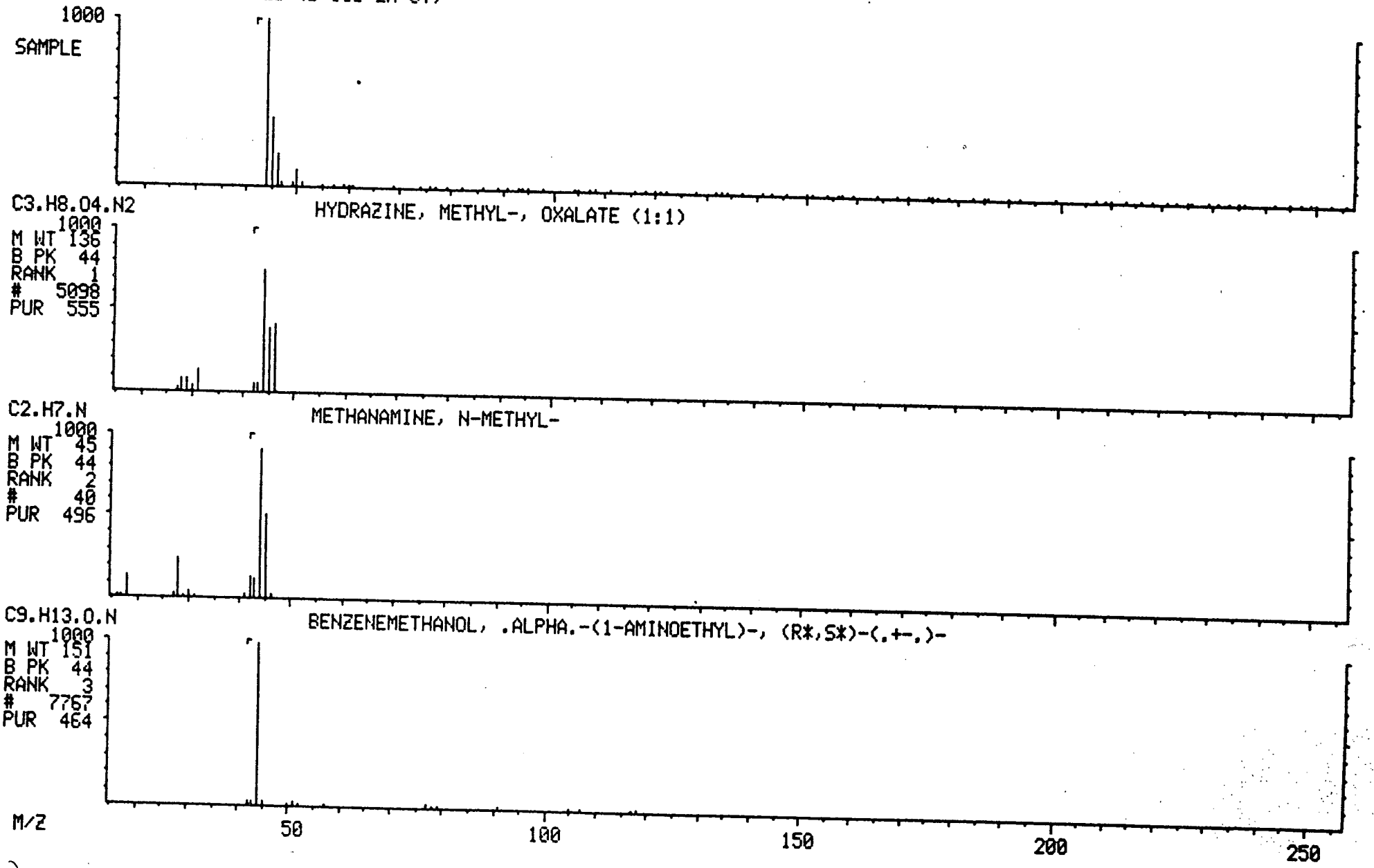
BASE M/Z: 44/ 44
RIC: 79743./ 213759.



LIBRARY SEARCH
08/28/87 17:04:00 + 0:12
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 # 4
CALI: PU7438 # 2

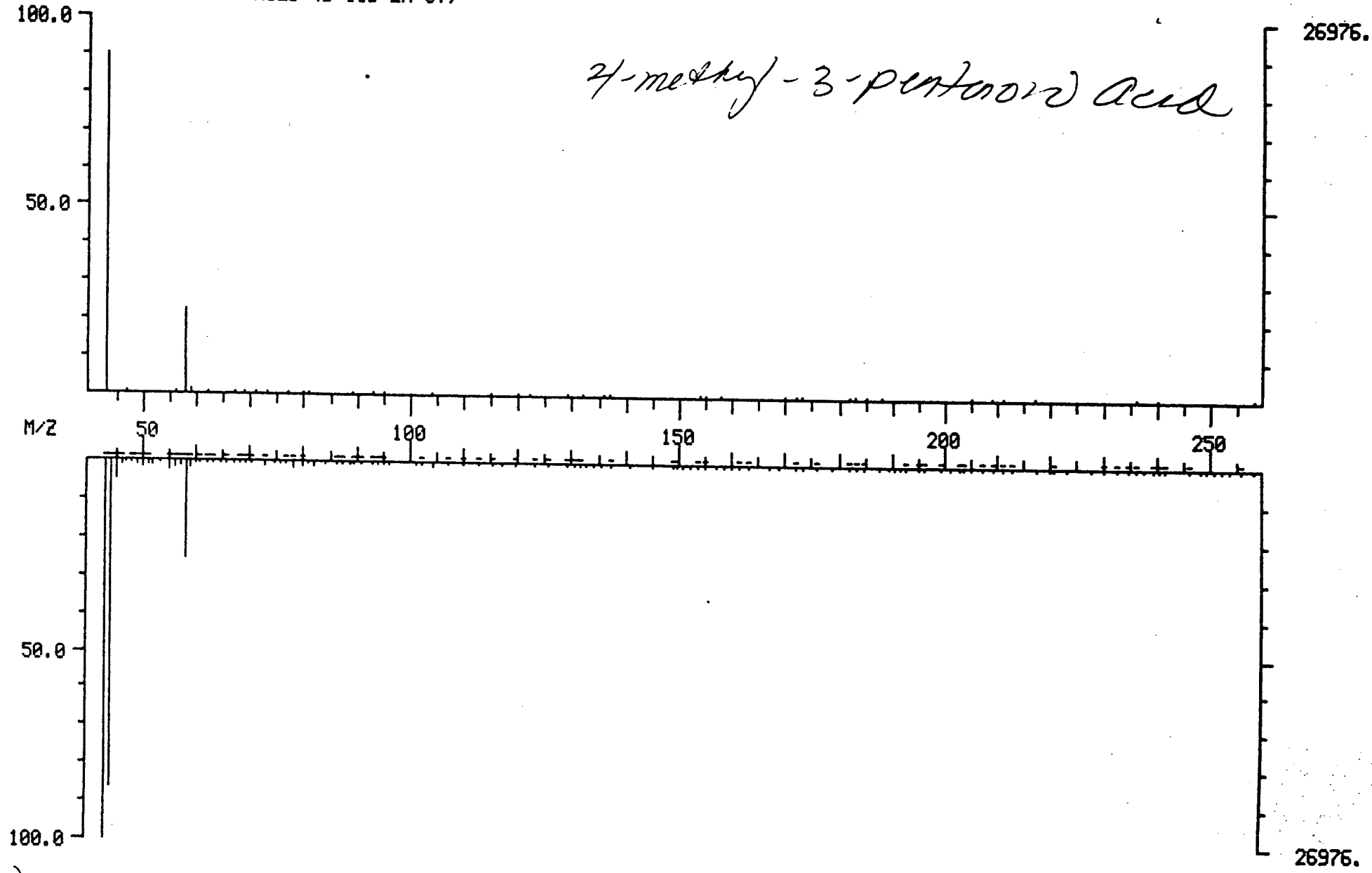
BASE M/Z: 44
RIC: 78719.



DUAL MASS SPECTRUM
08/28/87 17:04:00 + 4:30
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 #90
CALI: PU7438 #2

BASE M/Z: 43/ 43
RIC: 37567./ 77951.

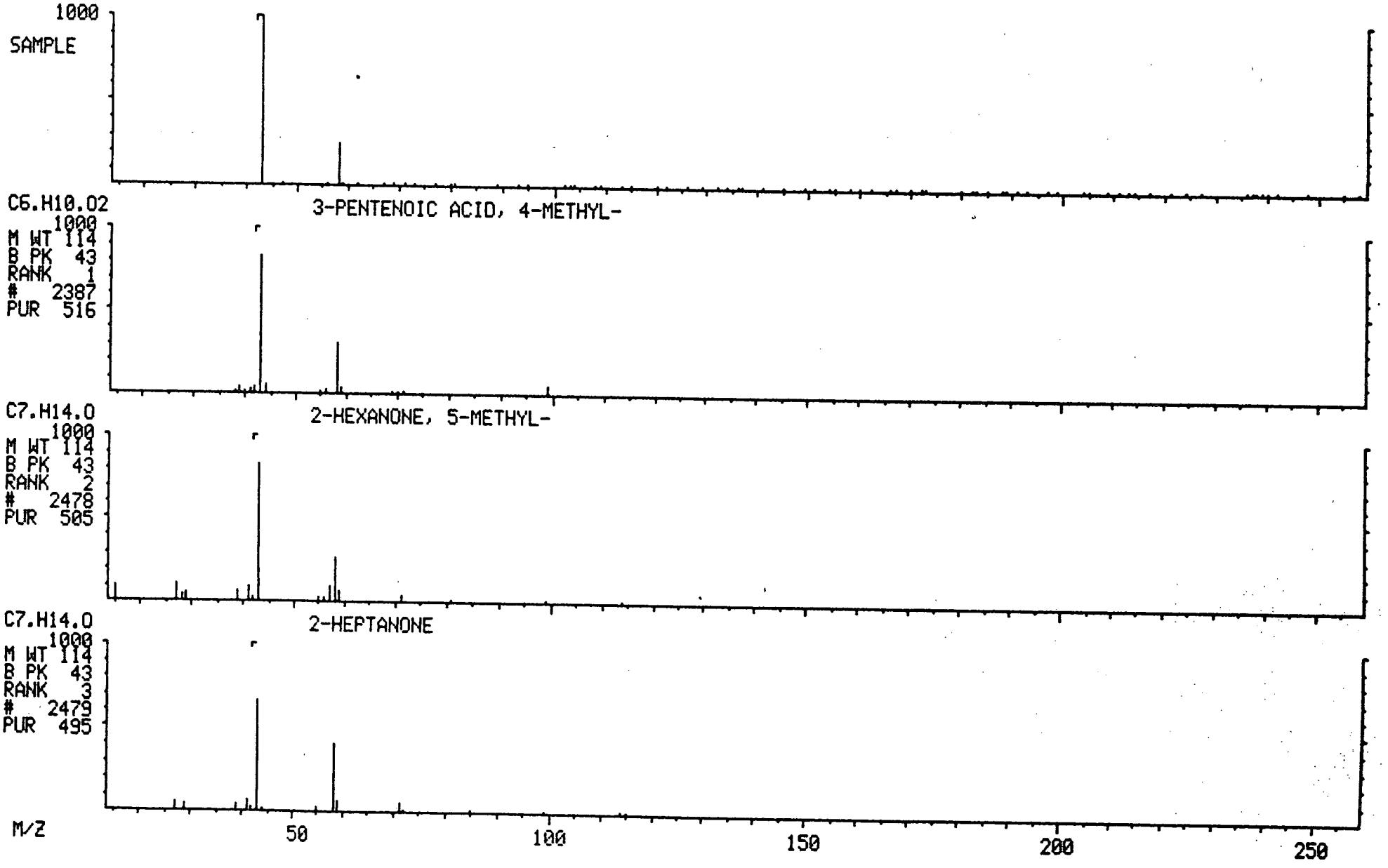


2-methyl-3-pentenoic acid

LIBRARY SEARCH
08/28/87 17:04:00 + 4:30
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 # 90
CALI: PU7438 # 2

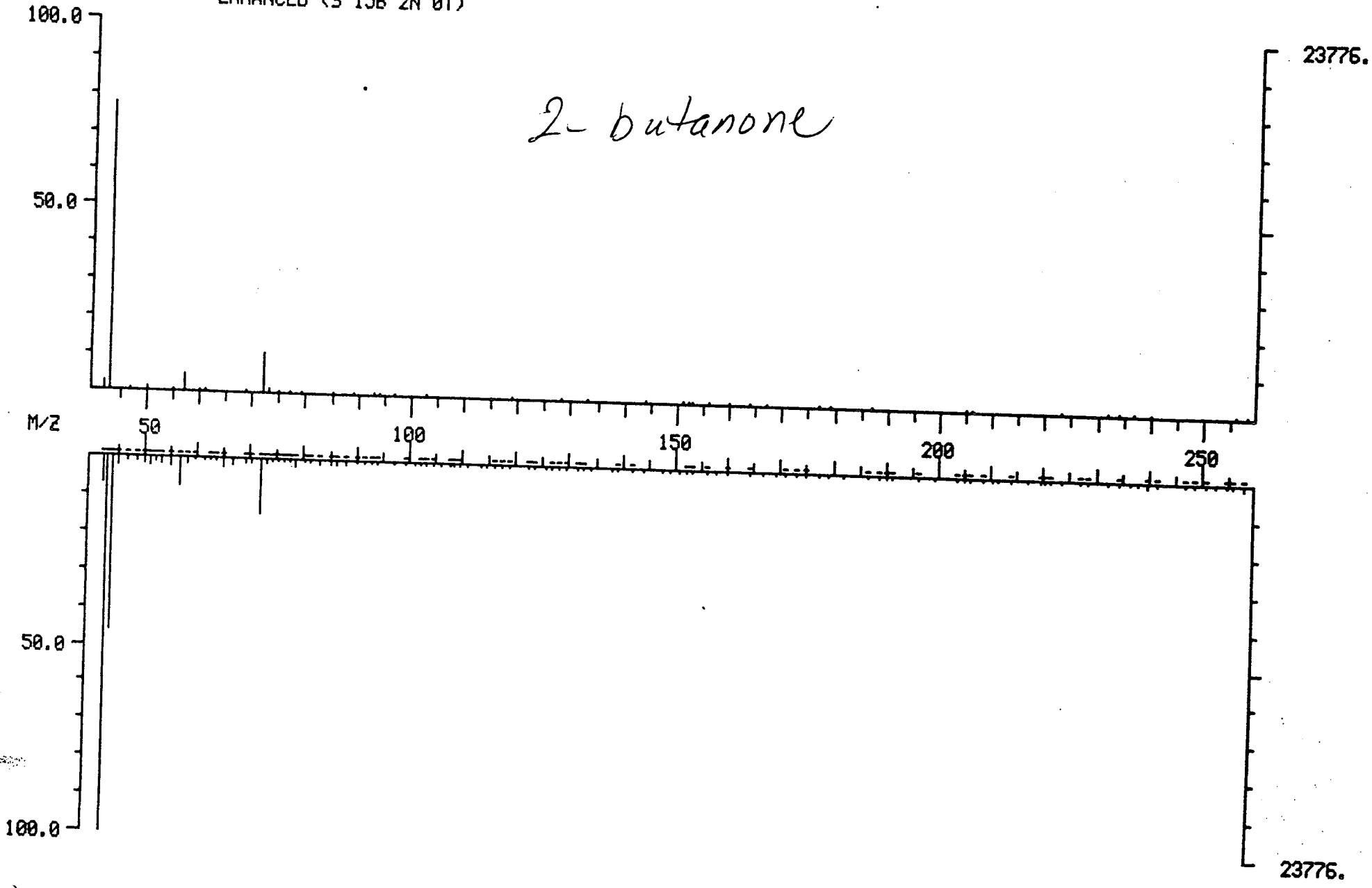
BASE M/Z: 43
RIC: 36991.



DUAL MASS SPECTRUM
08/28/87 17:04:00 + 11:15
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 #225
CALI: PU7438 #2

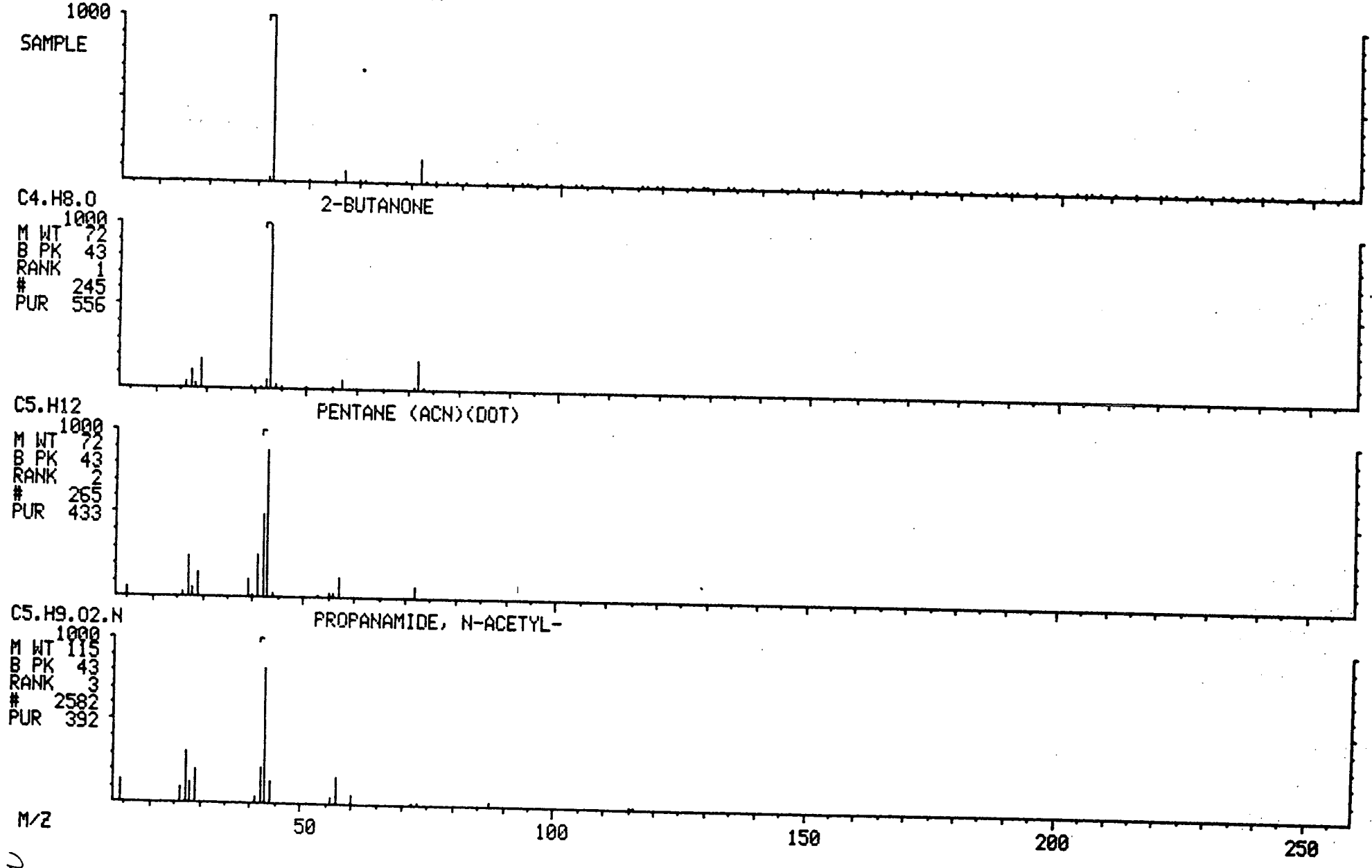
BASE M/Z: 43/ 43
RIC: 29471./ 62271.



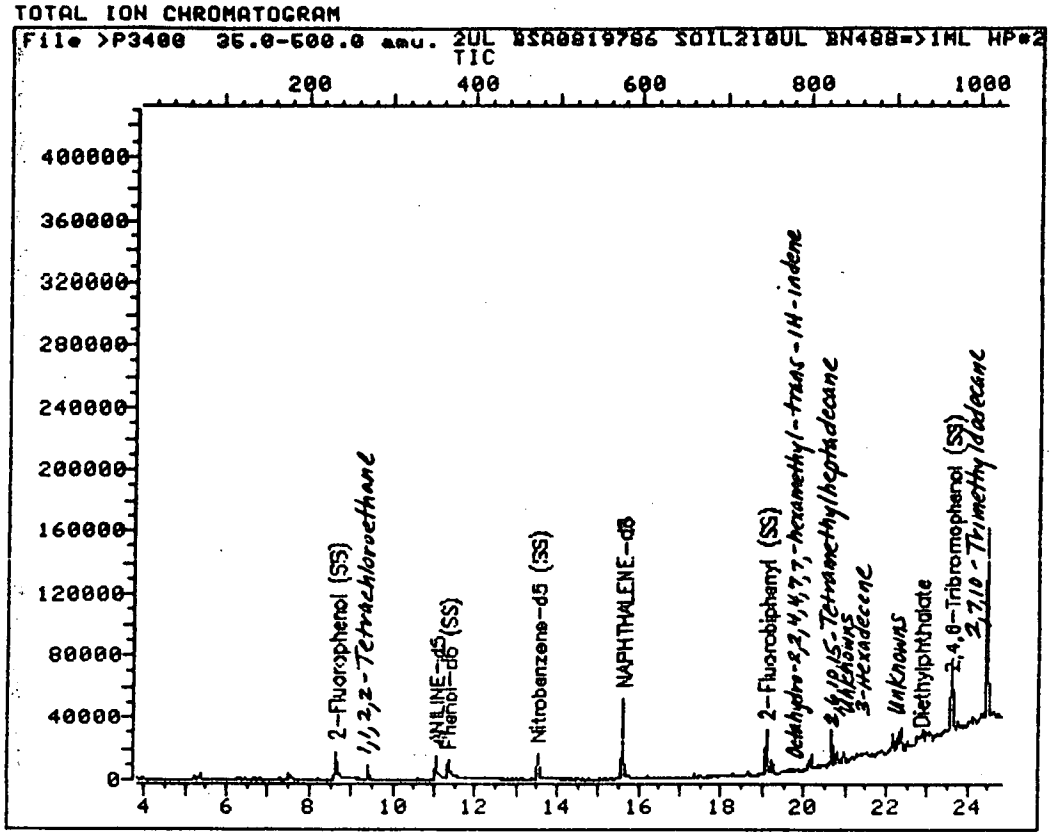
LIBRARY SEARCH
08/28/87 17:04:00 + 11:15
SAMPLE: 100UL #BSA 0819786(1.1205GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7438 # 225
CALI: PU7438 # 2

BASE M/Z: 43
RIC: 28735.



TOTAL ION CHROMATOGRAM



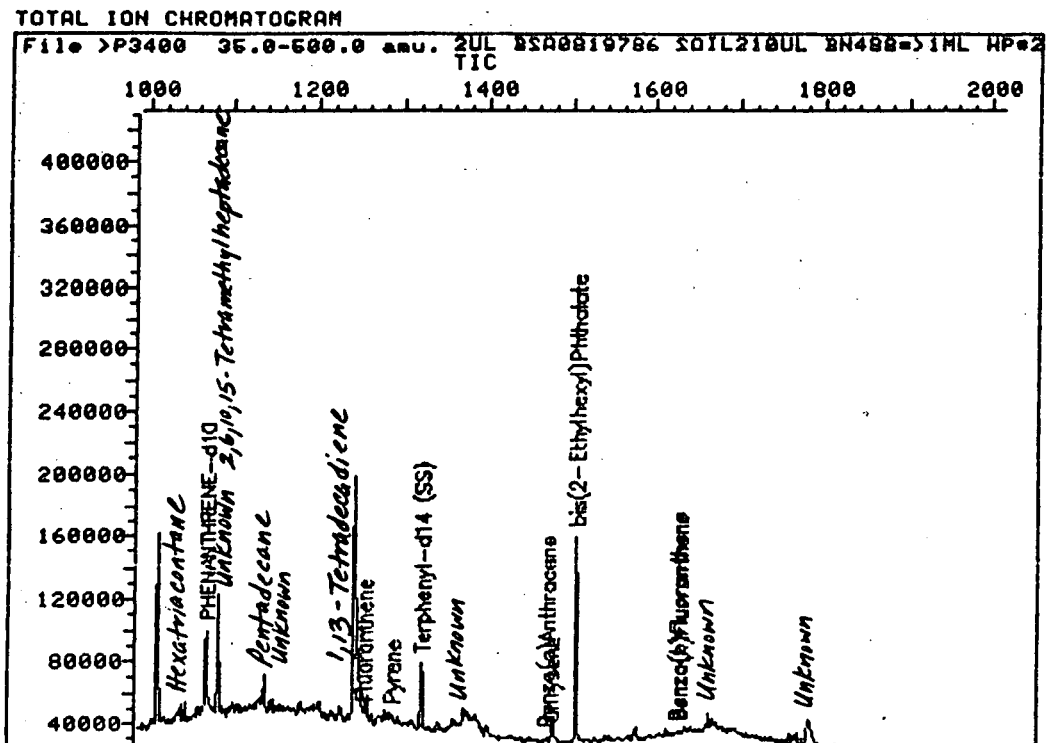
Data File: >P3400::B1 Quant Output File: ^P3400::QT
Name: 2UL BSA0819786 SOIL2
Misc: 10UL BN488=>1ML HP#2 579873 BNA [2ML] BTL#55

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

Operator ID: GLENN
Quant Time: 870910 20:17
Injected at: 870910 19:30

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >P3400::B1 Quant Output File: ^P3400::QT
Name: 2UL BSA0819786 SOIL2
Misc: 10UL BN488=>1ML HP#2 579873 BNA [2ML] BTL#55

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

Operator ID: GLENN
Quant Time: 870910 20:17
Injected at: 870910 19:30

TIC page 2 of 2

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 870910 20:17
Output File: ^P3400::QT Injected at: 870910 19:30
Data File: >P3400::B1 Dilution Factor: 1.00000
Name: 2UL BSA0819786 SOIL2
Misc: 10UL BN488=>1ML HP#2 579873 BNA [2ML] BTL#55

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.04	355	20080	42.85	ug/mL	92
3)	2-Fluorophenol (SS)	8.63	237	16448	49.57	ug/mL	51
6)	Phenol-d6 (SS)	11.34	370	25653	50.93	ug/mL	88
14)	*NAPHTHALENE-d8	15.60	579	60997	41.04	ug/mL	63
15)	Nitrobenzene-d5 (SS)	13.52	477	16684	18.91	ug/mL	82
29)	2-Fluorobiphenyl (SS)	19.09	750	24440	26.90	ug/mL	97
37)	Diethylphthalate	22.83	933	2522	1.65	ug/mL	96
40)	2,4,6-Tribromophenol (SS)	23.59	970	11260	42.90	ug/mL	86
41)	*PHENANTHRENE-d10	25.66	1071	61831	41.02	ug/mL	72
50)	Fluoranthene	29.44	1255	2587	1.65	ug/mL	71
51)	Terphenyl-d14 (SS)	30.84	1323	43333	43.84	ug/mL	40
53)	Pyrene	30.12	1288	4013	2.54	ug/mL	62
56)	Benzo(a)Anthracene	33.91	1472	1663	1.32	ug/mL	81
57)	bis(2-Ethylhexyl)Phthalate	34.63	1507	77557	53.74	ug/mL	86
58)	Chrysene	34.03	1478	2322	1.93	ug/mL	94
60)	Benzo(b)Fluoranthene	37.11	1628	2512M	1.88	ug/mL	89
61)	Benzo(k)Fluoranthene	37.17	1631	1009M	1.14	ug/mL	90

* Compound is ISTD

MS data file header from : >P3400

Sample: 2UL BSA0819786 SOIL2 Operator: GLENN MS 9/10/87 19:30
Misc : 10UL BN488=>1ML HP#2 579873 BNA [2ML] BTL#55
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

>P3400 2UL BSA0819786 SOIL210UL BN488=>1ML HP#2 579873 BNA [2ML]
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 6004. Max Peaks: 20 Bunching: 1
Dnslope: 0.00 Results File IP3400 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	9.41	272	275	280	8839	20521	18976	3.63	1.143
2	20.17	799	803	806	9066	88071	26277	5.02	1.583
3	20.68	823	828	830	22867	132887	57572	11.00	3.467
4	20.80	830	834	836	8217	100435	30715	5.87	1.850
5	20.97	839	842	845	7294	100620	26121	4.99	1.573
6	21.17	847	852	856	4586	148976	29401	5.62	1.771
7	22.17	898	901	904	10046	172264	32080	6.13	1.932
8	22.28	904	906	908	6517	113276	20281	3.88	1.221
9	22.36	908	910	915	14447	207819	45906	8.77	2.765
10	22.73	926	928	929	6056	98031	18597	3.55	1.120
11	24.47	1010	1013	1015	122071	534318	291964	55.80	17.583
12	25.13	1043	1045	1048	12600	286259	32286	6.17	1.944
13	25.81	1077	1078	1081	7504	235904	32770	6.26	1.971
14	25.93	1081	1084	1087	78998	552490	216064	41.29	13.010
15	27.06	1136	1139	1141	25017	366137	80977	15.48	4.877
16	27.14	1141	1143	1145	6948	245982	17820	3.41	1.073
17	29.22	1241	1244	1247	150260	875795	523222	100.00	31.511
18	32.43	1398	1400	1401	6296	133716	16131	3.08	.971
19	37.87	1663	1665	1666	9568	151634	19248	3.68	1.159
20	40.30	1779	1783	1792	15065	931568	124099	23.72	7.474

Sum of corrected areas: 1660467.

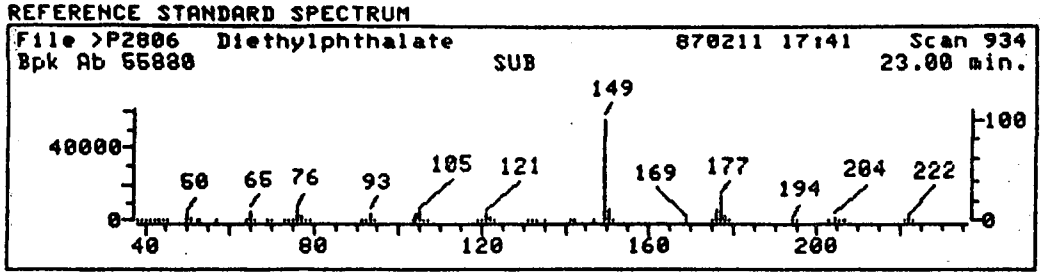
Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	42.8	60037.	11.04	3.83 - 13.32
2	41.0	142492.	15.60	13.32 - 20.63
3	41.0	143770.	25.66	20.63 - 45.03

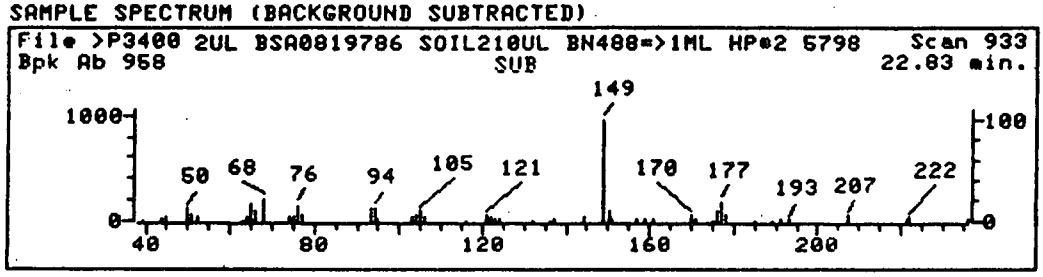
Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00

340

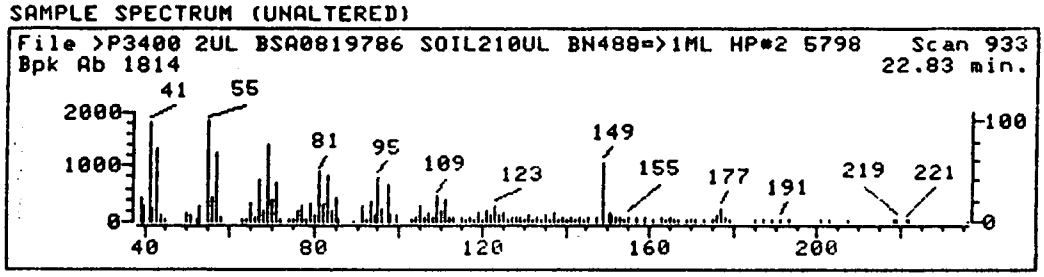
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



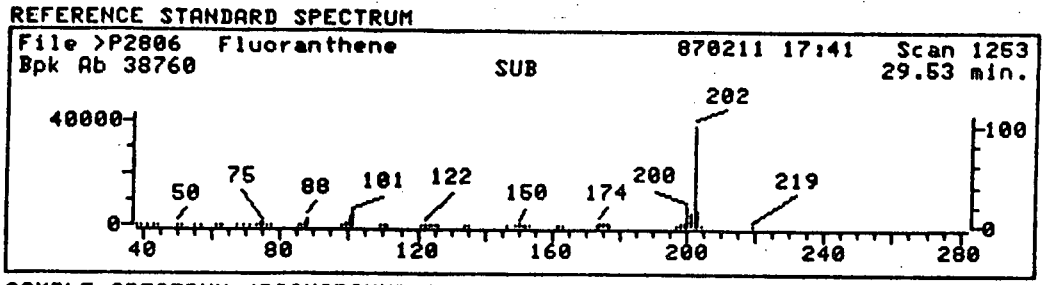
SAMPLE SPECTRUM (UNALTERED)



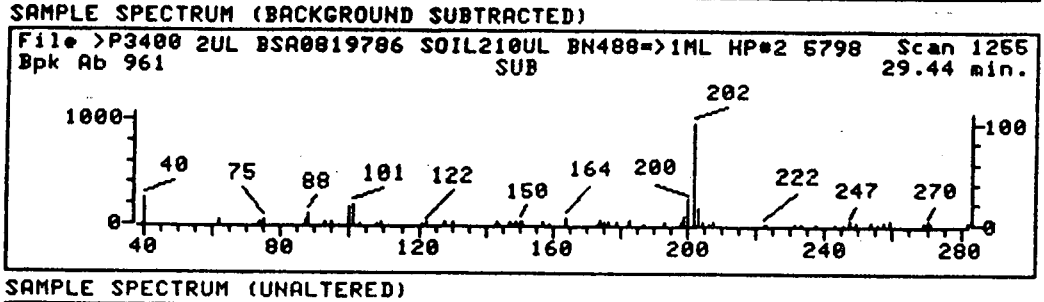
Data File: >P3400::B1 Quant Output File: ^P3400::QT
Name: 2UL BSA0819786 SOIL2
Misc: 10UL BN488=>1ML HP#2 579873 BNA [2ML] BTL#55
Quant Time: 870910 20:17 Quant ID File: ID_625::ME
Injected at: 870910 19:30 Last Calibration: 870910 15:35

Compound No: 37
Compound Name: Diethylphthalate
Scan Number: 933
Retention Time: 22.83 min.
Quant Ion: 149.0
Area: 2522
Concentration: 1.65 ug/mL
q-value: 96

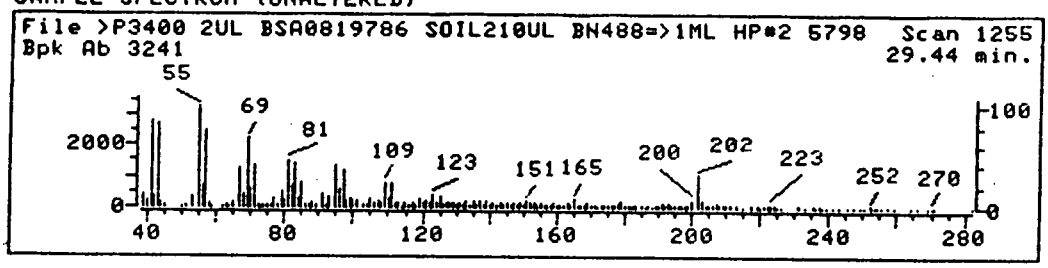
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



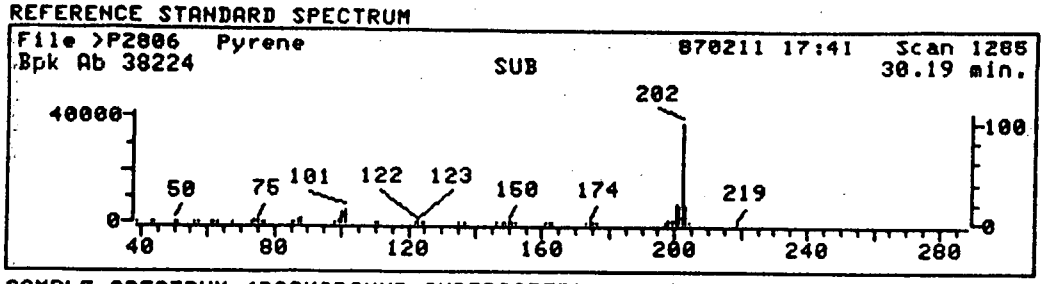
SAMPLE SPECTRUM (UNALTERED)



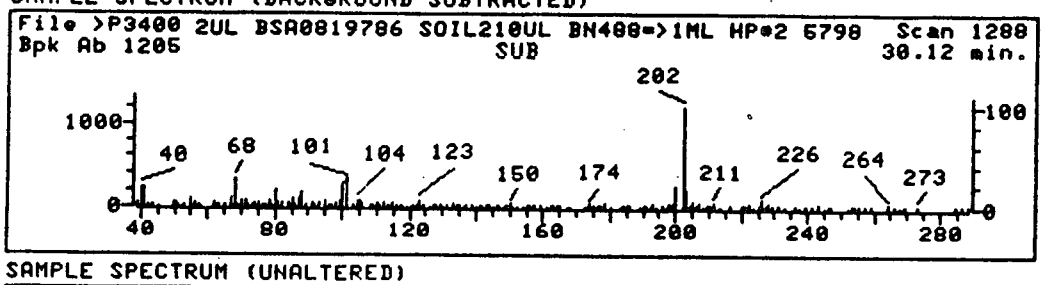
Data File: >P3400::B1 Quant Output File: ^P3400::QT
Name: 2UL BSA0819786 SOIL2
Misc: 10UL BN488=>1ML HP#2 579873 BNA [2ML] BTL#55
Quant Time: 870910 20:17 Quant ID File: ID_625::ME
Injected at: 870910 19:30 Last Calibration: 870910 15:35

Compound No: 50
Compound Name: Fluoranthene
Scan Number: 1255
Retention Time: 29.44 min.
Quant Ion: 202.0
Area: 2587
Concentration: 1.65 ug/mL
q-value: 71

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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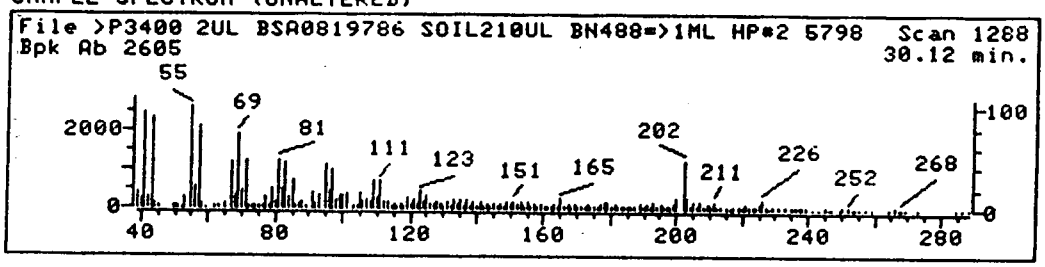
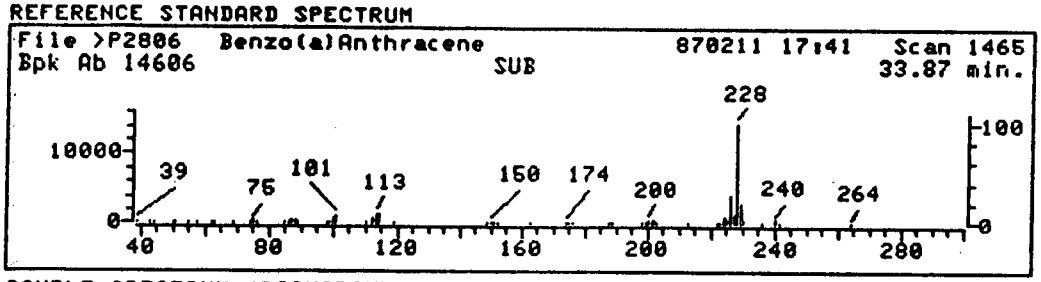


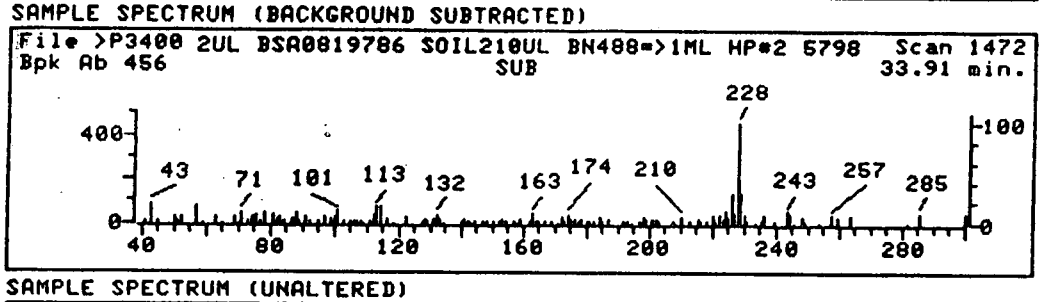
Data File: >P3400::B1 Quant Output File: ^P3400::QT
Name: 2UL BSA0819786 SOIL2
Misc: 10UL BN488=>1ML HP#2 579873 BNA [2ML] BTL#55
Quant Time: 870910 20:17 Quant ID File: ID_625::ME
Injected at: 870910 19:30 Last Calibration: 870910 15:35

Compound No: 53
Compound Name: Pyrene
Scan Number: 1288
Retention Time: 30.12 min.
Quant Ion: 202.0
Area: 4013
Concentration: 2.54 ug/mL
q-value: 62

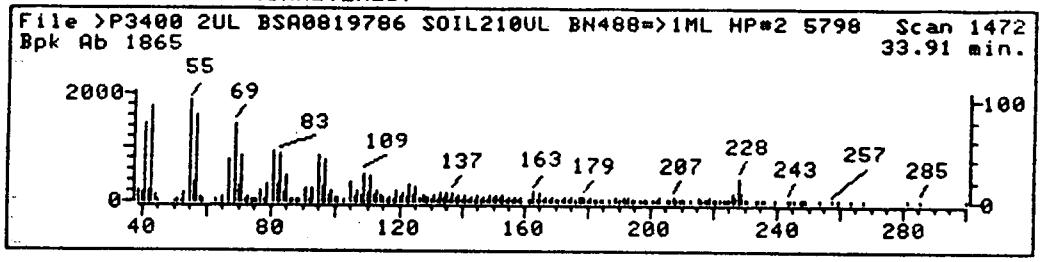
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



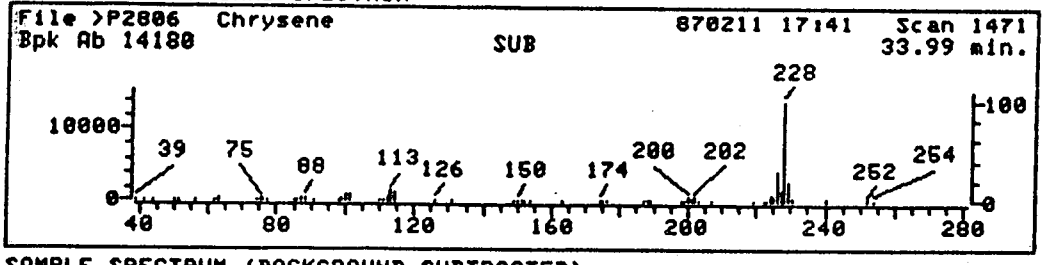
SAMPLE SPECTRUM (UNALTERED)



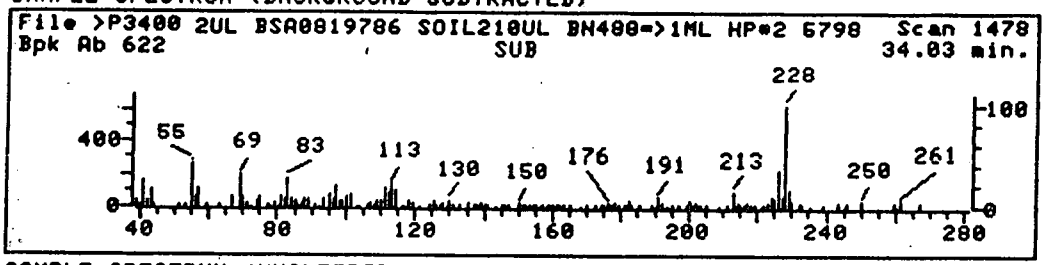
Data File: >P3400::B1 Quant Output File: ^P3400::QT
Name: 2UL BSA0819786 SOIL2
Misc: 10UL BN488=>1ML HP#2 579873 BNA [2ML] BTL#55
Quant Time: 870910 20:17 Quant ID File: ID_625::ME
Injected at: 870910 19:30 Last Calibration: 870910 15:35

Compound No: 56
Compound Name: Benzo(a)Anthracene
Scan Number: 1472
Retention Time: 33.91 min.
Quant Ion: 228.0
Area: 1663
Concentration: 1.32 ug/mL
q-value: 81

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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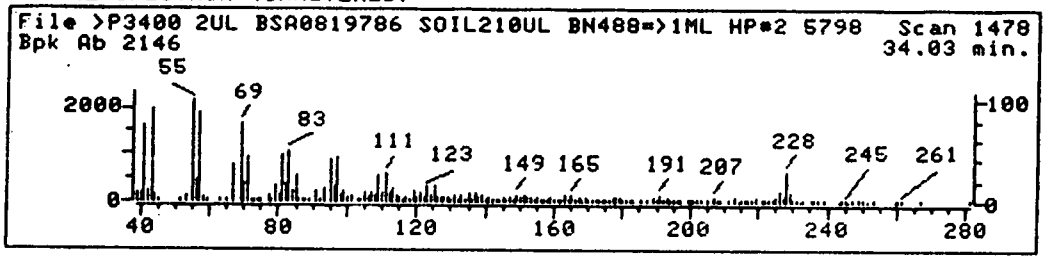
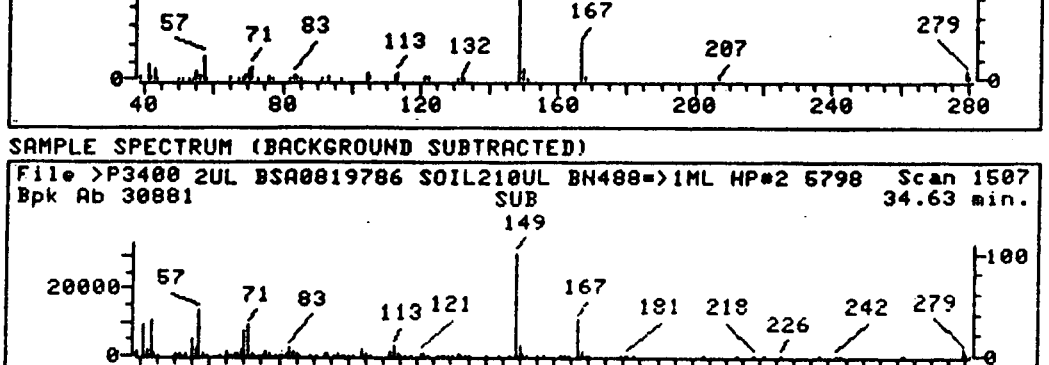


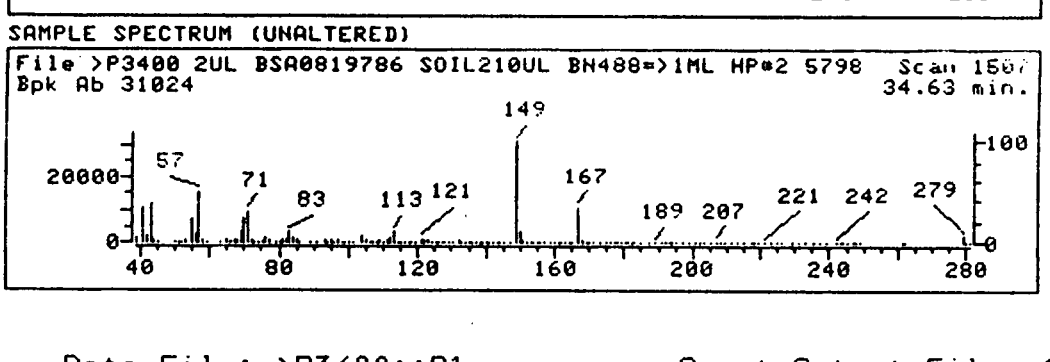
Data File: >P3400::B1 Quant Output File: ^P3400::QT
Name: 2UL BSA0819786 SOIL2
Misc: 10UL BN488=>1ML HP#2 579873 BNA [2ML] BTL#55
Quant Time: 870910 20:17 Quant ID File: ID_625::ME
Injected at: 870910 19:30 Last Calibration: 870910 15:35

Compound No: 58
Compound Name: Chrysene
Scan Number: 1478
Retention Time: 34.03 min.
Quant Ion: 228.0
Area: 2322
Concentration: 1.93 ug/mL
q-value: 94

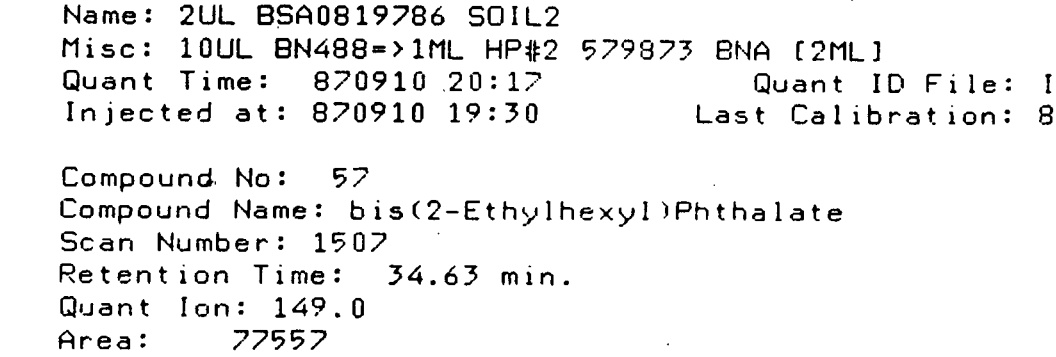
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



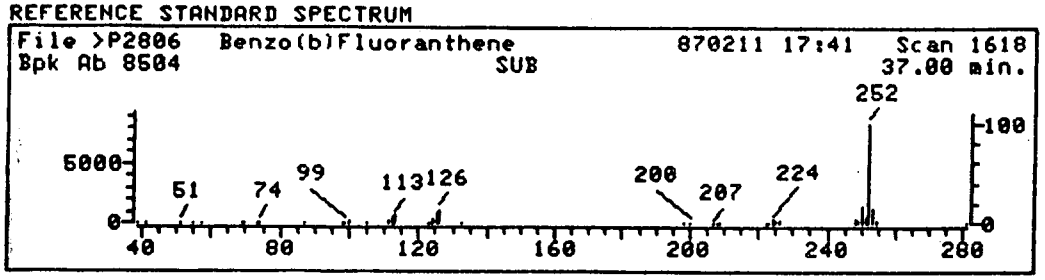
SAMPLE SPECTRUM (UNALTERED)



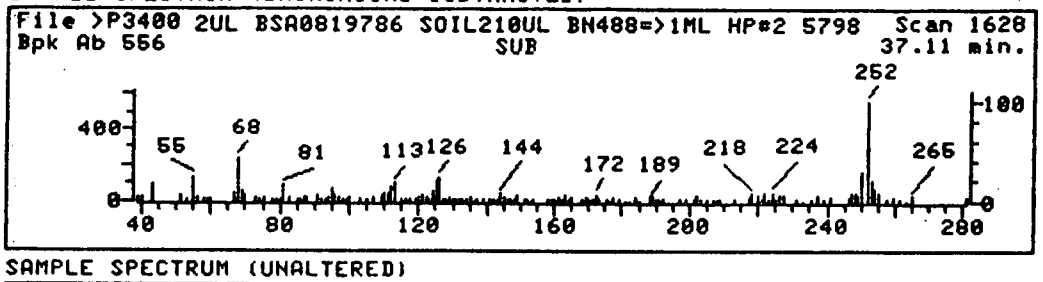
Data File: >P3400::B1 Quant Output File: ^P3400::QT
Name: 2UL BSA0819786 SOIL2
Misc: 10UL BN488=>1ML HP#2 579873 BNA [2ML] BTL#55
Quant Time: 870910 20:17 Quant ID File: ID_625::ME
Injected at: 870910 19:30 Last Calibration: 870910 15:35

Compound No: 57
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1507
Retention Time: 34.63 min.
Quant Ion: 149.0
Area: 77557
Concentration: 53.74 ug/mL
q-value: 86

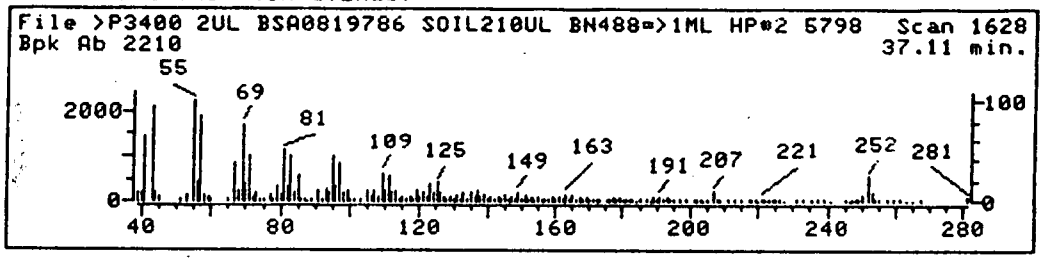
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



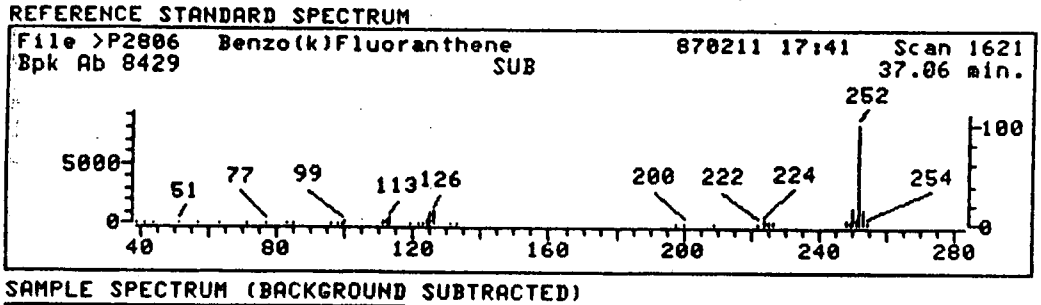
SAMPLE SPECTRUM (UNALTERED)



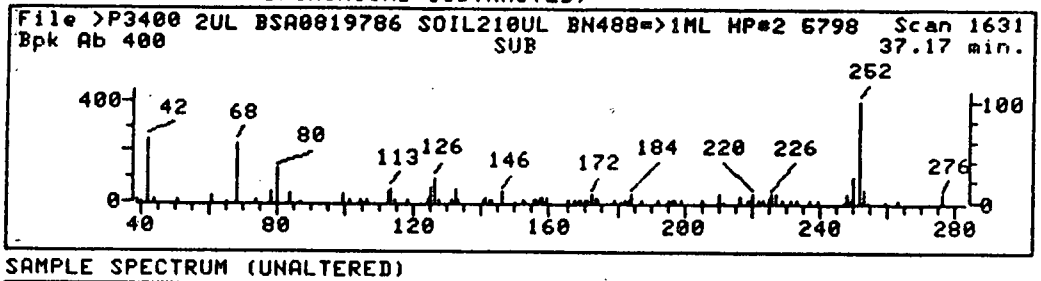
Data File: >P3400::B1 Quant Output File: ^P3400::QT
Name: 2UL BSA0819786 SOIL2
Misc: 10UL BN488=>1ML HP#2 579873 BNA [2ML] BTL#55
Quant Time: 870910 20:17 Quant ID File: ID_625::ME
Injected at: 870910 19:30 Last Calibration: 870910 15:35

Compound No: 60
Compound Name: Benzo(b)Fluoranthene
Scan Number: 1628
Retention Time: 37.11 min.
Quant Ion: 252.0
Area: 2512M
Concentration: 1.88 ug/mL
q-value: 89

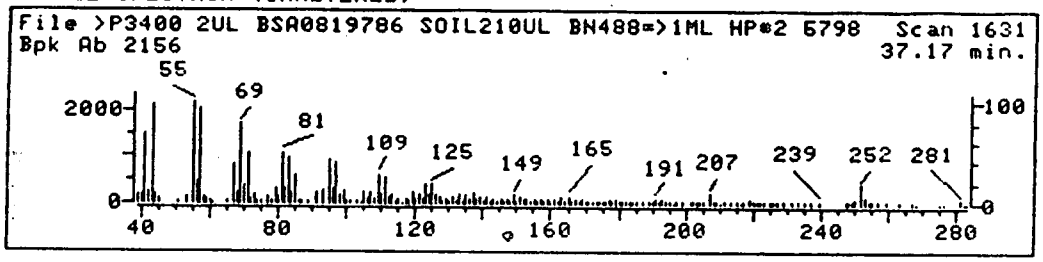
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

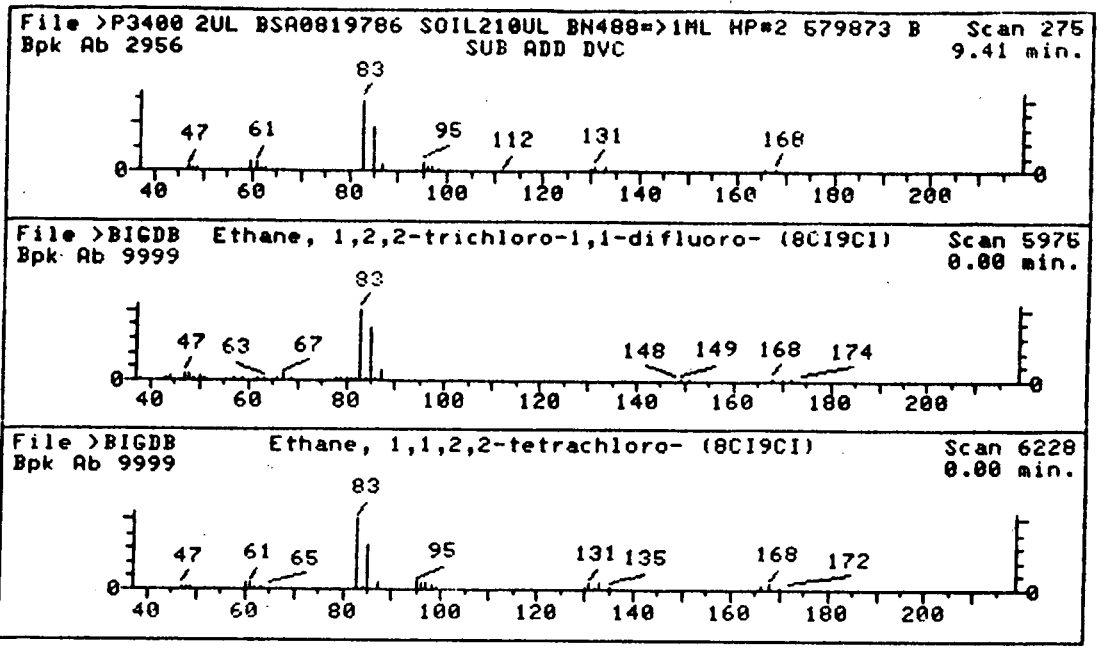


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3400::B1 Quant Output File: ^P3400::QT
Name: 2UL BSA0819786 SOIL2
Misc: 10UL BN488=>1ML HP#2 579873 BNA [2ML] BTL#55
Quant Time: 870910 20:17 Quant ID File: ID_625::ME
Injected at: 870910 19:30 Last Calibration: 870910 15:35

Compound No: 61
Compound Name: Benzo(k)Fluoranthene
Scan Number: 1631
Retention Time: 37.17 min.
Quant Ion: 252.0
Area: 1009M
Concentration: 1.14 ug/mL
q-value: 90

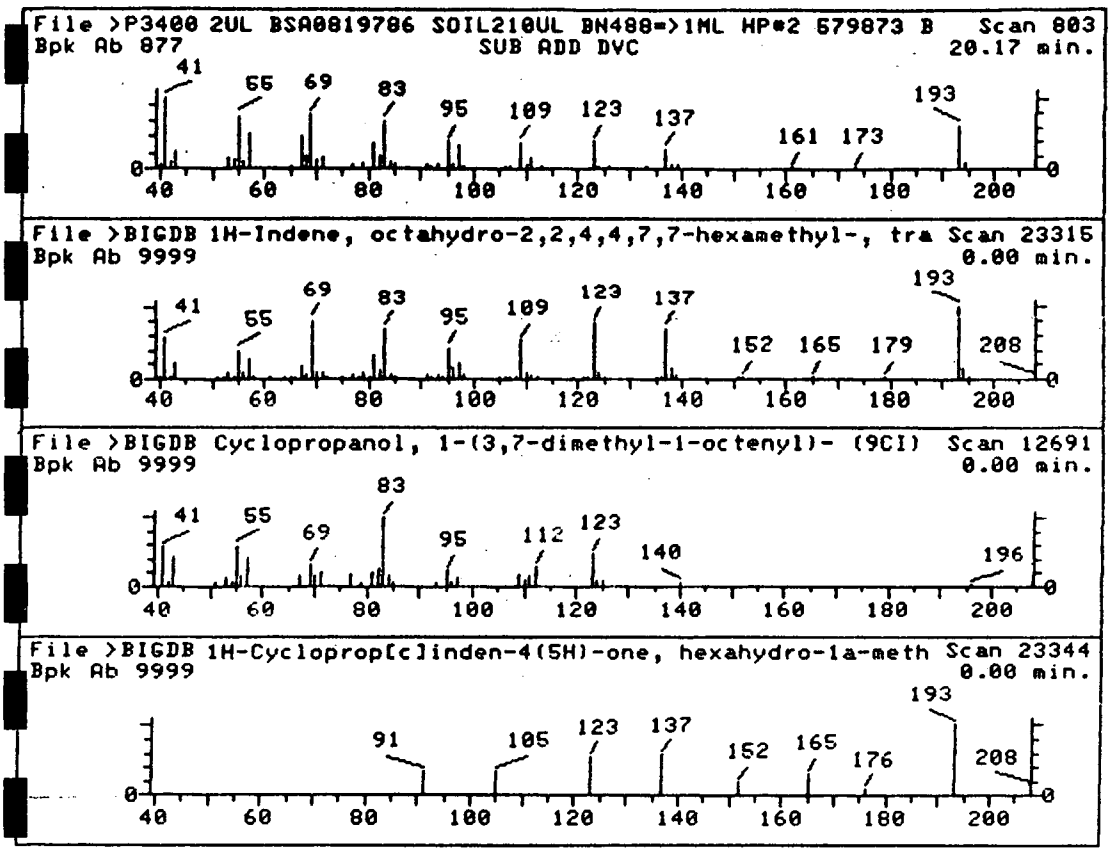


. Unknown #,1
Area = 18976.00 Tentative Concentration is 14.00

1. Ethane, 1,2,2-trichloro-1,1-difluoro- (8CI9CI) 168 C2HCl3F2
2. Ethane, 1,1,2,2-tetrachloro- (8CI9CI) 166 C2H2Cl4

Sample file: >P3400 Spectrum #: 275
Search speed: 1 · Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	52*	354212	5975	"BIGDB	48	54	2	0	71	17	20	19

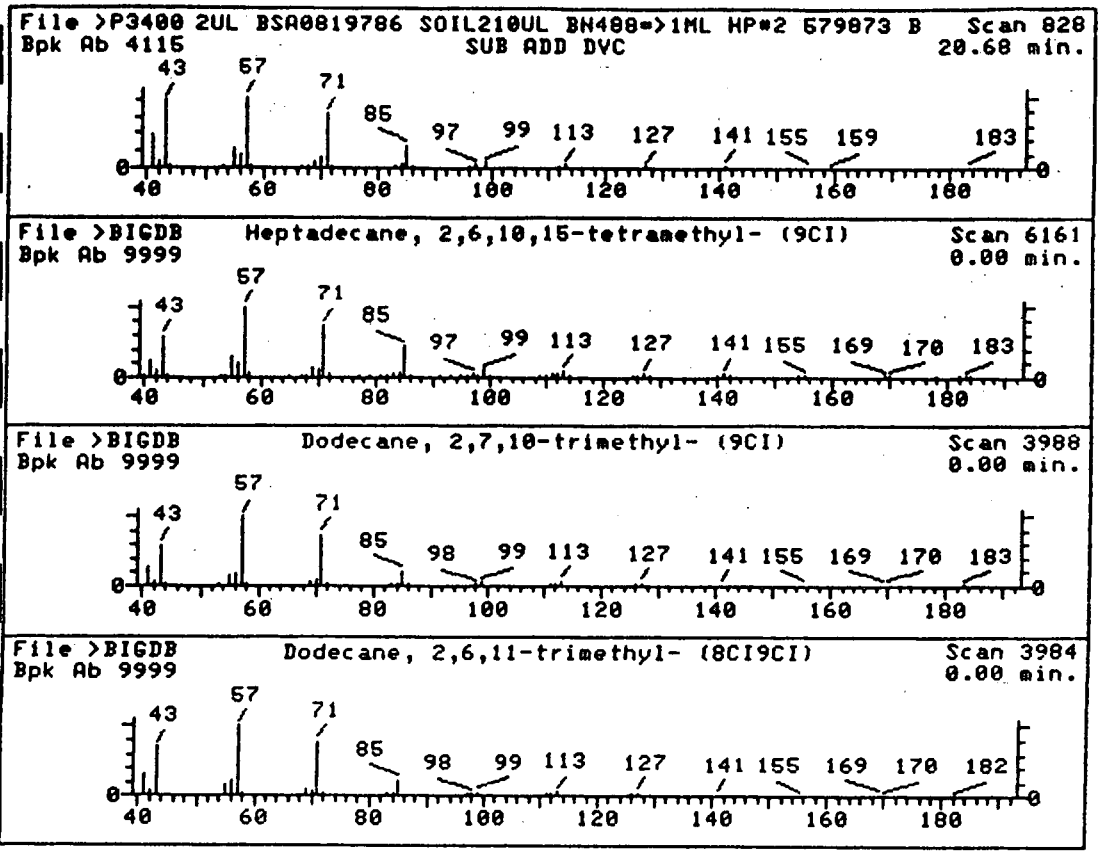


Unknown #,2
Area = 26277:00 Tentative Concentration is 8.00

1.	1H-Indene, octahydro-2,2,4,4,7,7-hexamethyl-, trans- (9CI)	208	C15H28
2.	Cyclopropanol, 1-(3,7-dimethyl-1-octenyl)- (9CI)	196	C13H24O
3.	1H-Cycloprop[c]inden-4(5H)-one, hexahydro-1a-methoxy -2,3a-dimethyl-, (1a.alpha.,2.beta.,3a.alpha.,7aR*)- (9CI)	208	C13H20O2
4.	4H-1,3,2-Dioxaborin, 4-ethenyl-2-ethyl-4-methyl-6-(2 -methylpropyl)- (9CI)	208	C12H21BO2
5.	7-Tetradecyne (9CI)	194	C14H26
6.	2(1H)-Naphthalenone, octahydro-4a-methyl-7-(1-methyl ethyl)-, (4a.alpha.,7.beta.,8a.beta.)- (9CI)	208	C14H24O

Sample file: >P3400 Spectrum #: 803
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	72*	54832836	23315	"BIGDB	60	64	0	0	42	34	39	73

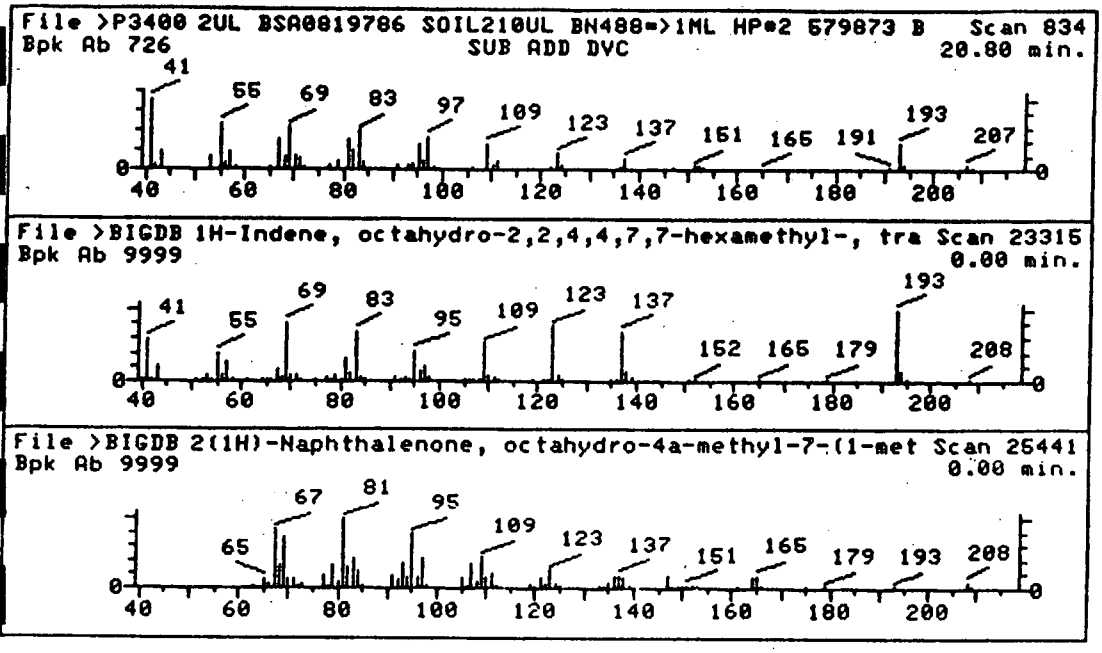


. Unknown #,3
Area = 57572.00 Tentative Concentration is 16.00

1.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
2.	Dodecane, 2,7,10-trimethyl- (9CI)	212 C15H32
3.	Dodecane, 2,6,11-trimethyl- (8CI9CI)	212 C15H32
4.	Decane, 3,6-dimethyl- (8CI9CI)	170 C12H26
5.	Nonane, 2-methyl-5-propyl- (8CI)	184 C13H28
6.	Octane, 2,3,7-trimethyl- (9CI)	156 C11H24
7.	Heptadecane, 2;6-dimethyl- (9CI)	268 C19H40

Sample file: >P3400 Spectrum #: 828
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	83	54833486	6161	"BIGDB	87	46	2	0	73	0	57	25
2.	83	74645980	3988	"BIGDB	74	35	2	0	100	2	57	23
3.	78	31295564	3984	"BIGDB	58	48	2	0	95	4	55	12
4.	76	17312537	11148	"BIGDB	64	34	2	0	85	6	45	23
5.	70	31081171	4004	"BIGDB	59	44	2	0	92	7	42	14

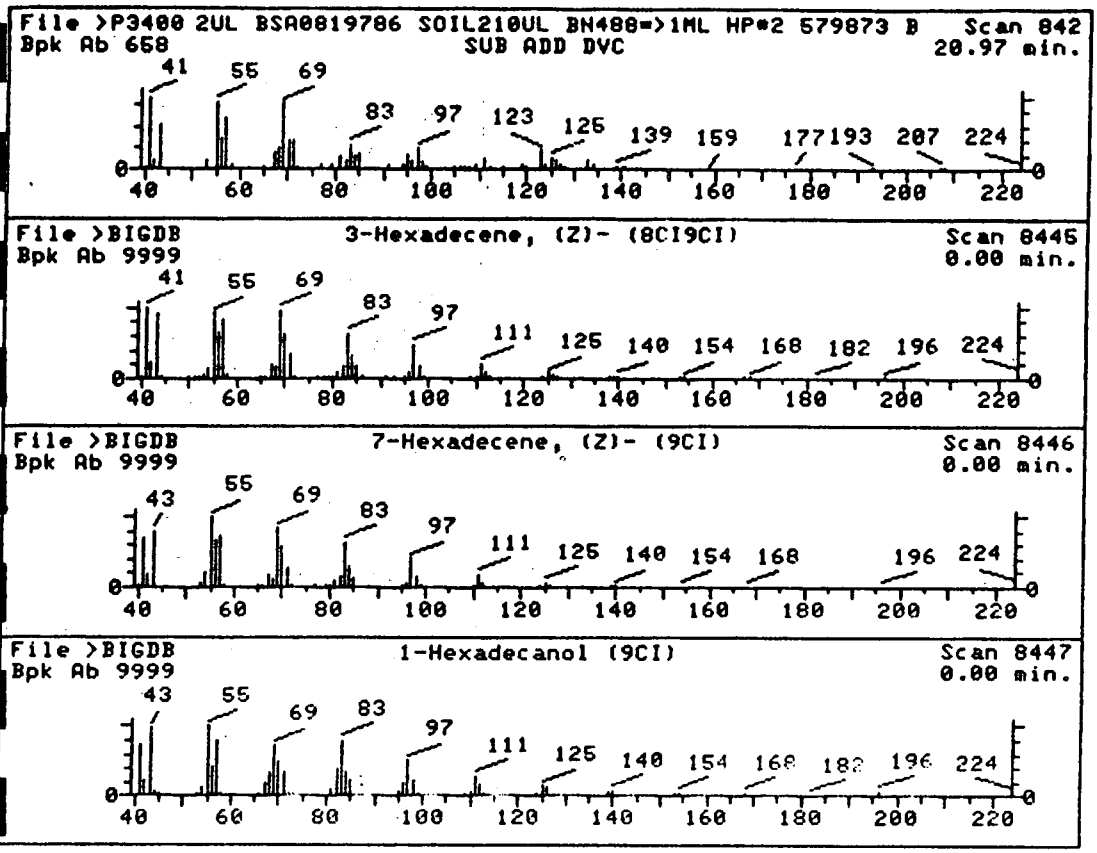


. Unknown #,4
Area = 30715.00 Tentative Concentration is 9.00

1. 1H-Indene, octahydro-2,2,4,4,7,7-hexamethyl-, trans- (9CI) 208 C15H28
2. 2(1H)-Naphthalenone, octahydro-4a-methyl-7-(1-methyl ethyl)-, (4a.alpha.,7.beta.,8a.beta.)- (9CI) 208 C14H24O

Sample file: >P3400 Spectrum #: 834
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	20*	54832836	23315	"BIGDB	29	95	2	0	31	54	5	14

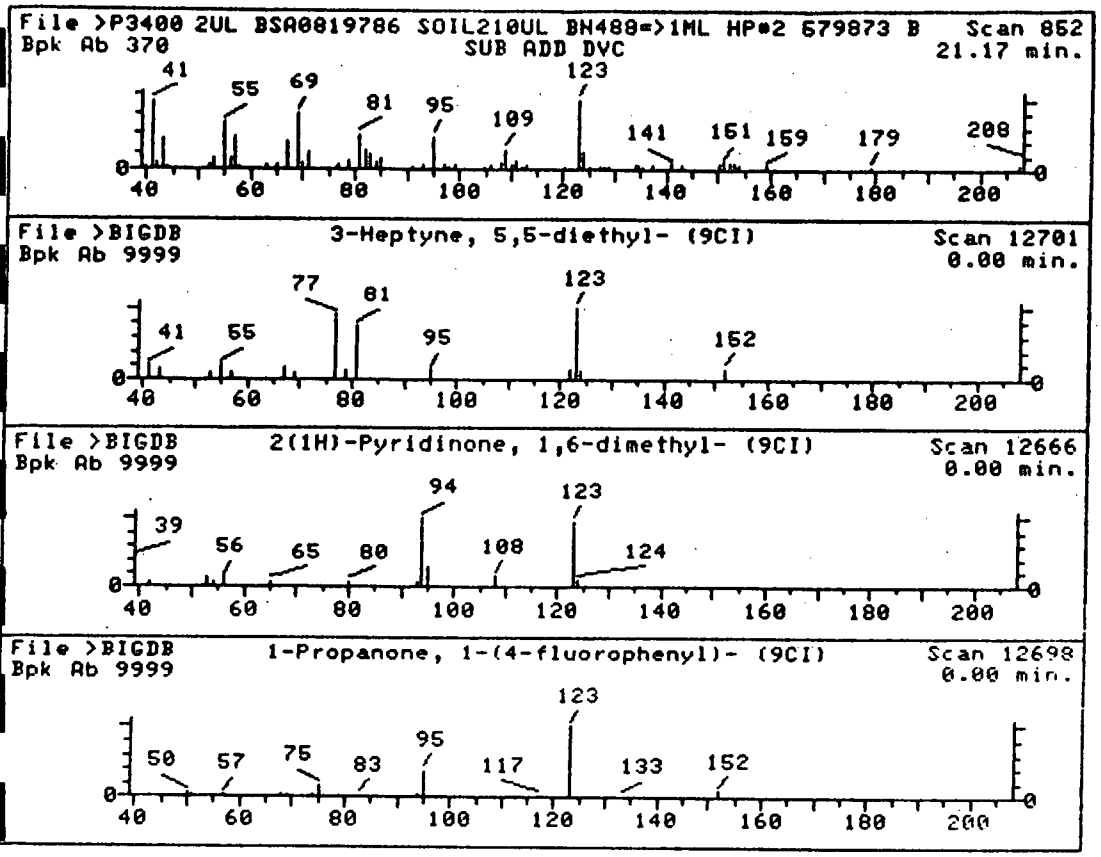


Unknown #,5
Area = 26121.00 Tentative Concentration is 7.00

1.	3-Hexadecene, (Z)- (8CI9CI)	224 C16H32
2.	7-Hexadecene, (Z)- (9CI)	224 C16H32
3.	1-Hexadecanol (9CI)	242 C16H34O
4.	3-Eicosene, (E)- (9CI)	280 C20H40
5.	5-Eicosene, (E)- (9CI)	280 C20H40
6.	Phosphonic acid, dioctadecyl ester (8CI9CI)	586 C36H75O3P
7.	9-Eicosene, (E)- (9CI)	280 C20H40

Sample file: >P3400 Spectrum #: 842
Search speed: 1 Tilting option: N No. of ion ranges searched: 52

	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IV
1.	74*	34303816	8445	"BIGDB	65	84	0	0	51	37	28	78

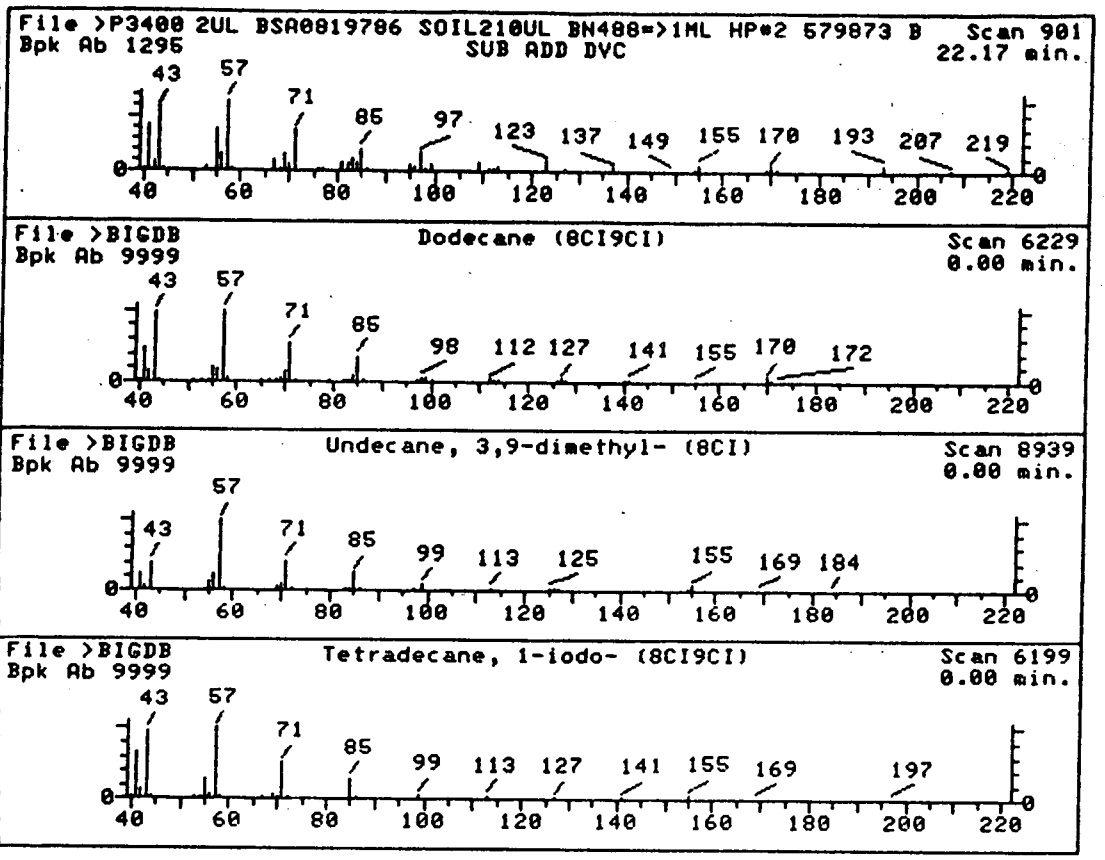


Unknown #,6
Area = 29401.00 Tentative Concentration is 8.00

1.	3-Heptyne, 5,5-diethyl- (9CI)	152	C11H20
2.	2(1H)-Pyridinone, 1,6-dimethyl- (9CI)	123	C7H9NO
3.	1-Propanone, 1-(4-fluorophenyl)- (9CI)	152	C9H9FO
4.	2-Cyclohexene-1-carboxaldehyde, 2,6,6-trimethyl- (8CI9CI)	152	C10H16O

Sample file: >P3400 Spectrum #: 852
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	61228066	12701	"BIGDB	32	74	2	0	67	48	7	14

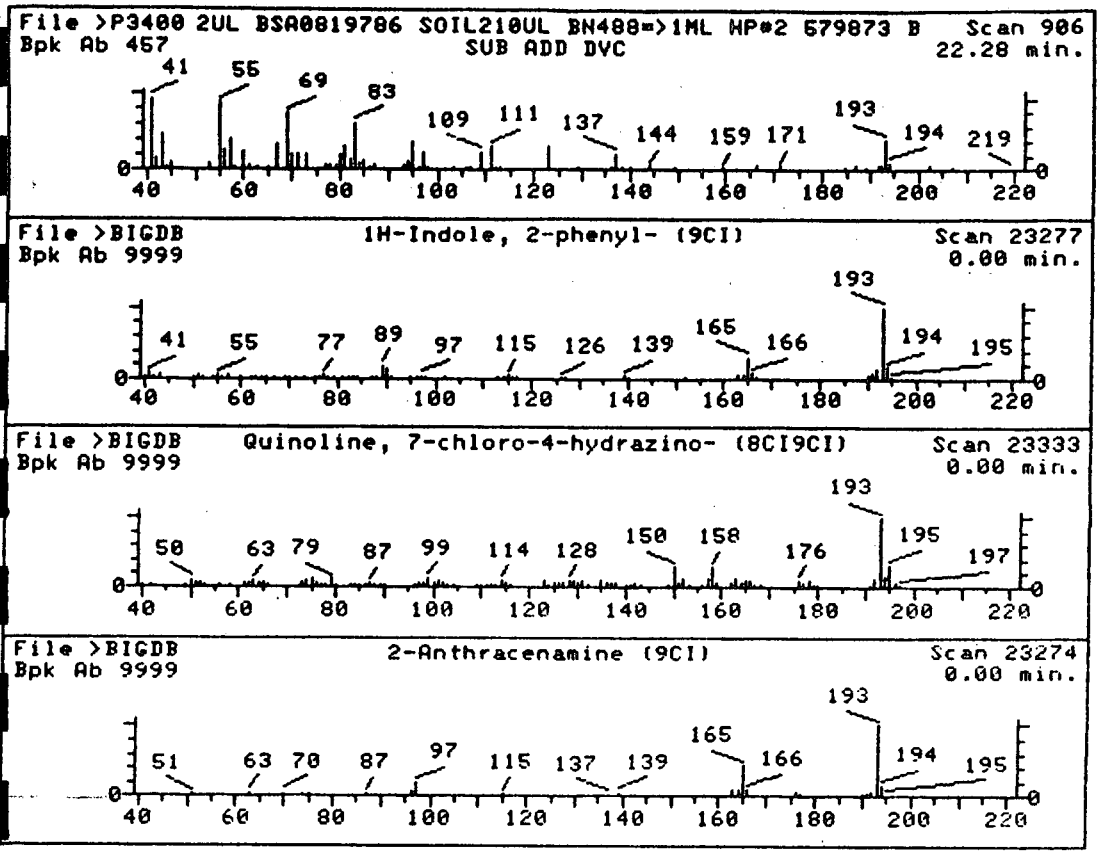


Unknown #,7
Area = 32080.00 Tentative Concentration is 9.00

1.	Dodecane (8CI9CI)	170 C12H26
2.	Undecane, 3,9-dimethyl- (8CI)	184 C13H28
3.	Tetradecane, 1-iodo- (8CI9CI)	324 C14H29I
4.	Dodecane, 1-iodo- (8CI9CI)	296 C12H25I
5.	Nonane, 3,7-dimethyl- (8CI9CI)	156 C11H24
6.	Docosane (8CI9CI)	310 C22H46
7.	Pentatriacontane (8CI9CI)	492 C35H72

Sample file: >P3400 Spectrum #: 901
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	58*	112403	6229	"BIGDB	68	33	2	0	83	37	19	49

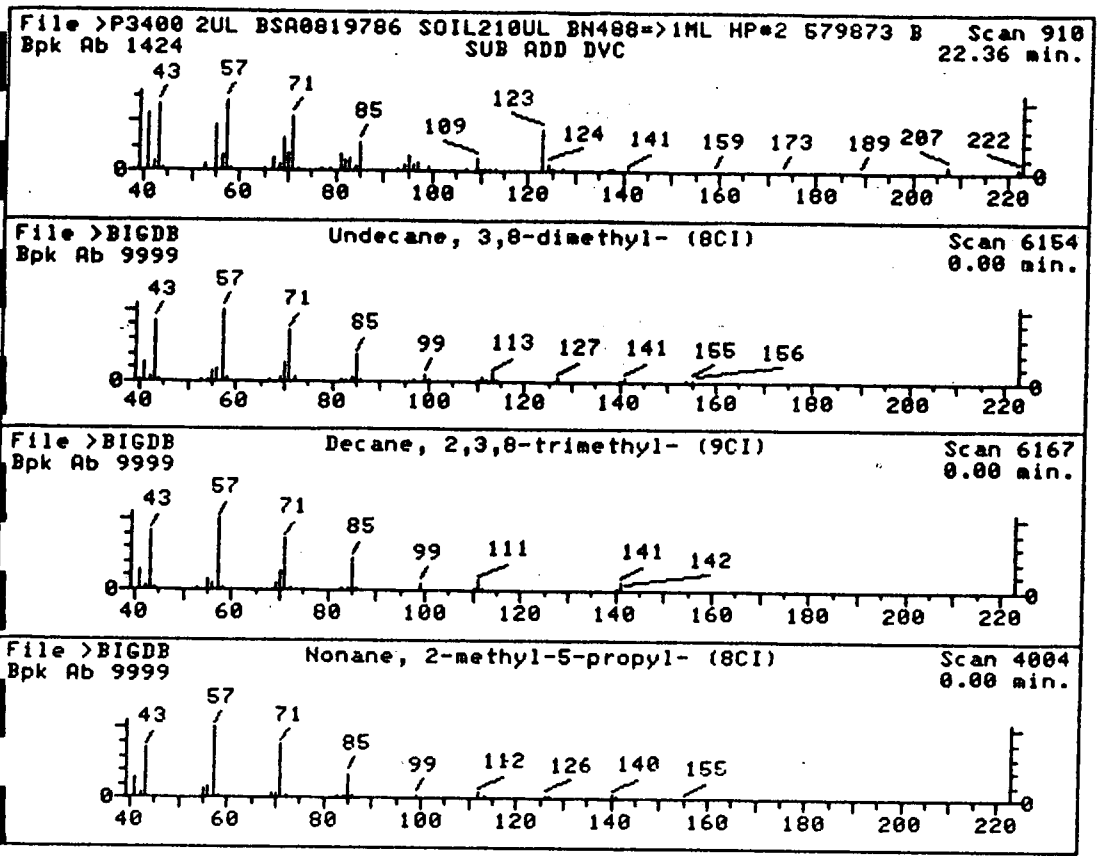


Unknown #,8
Area = 20281.00 Tentative Concentration is 6.00

1.	1H-Indole, 2-phenyl- (9CI)	193 C14H11N
2.	Quinoline, 7-chloro-4-hydrazino- (8CI9CI)	193 C9H8ClN3
3.	2-Anthracenamine (9CI)	193 C14H11N
4.	Thiazole, 2-(phenylthio)- (8CI9CI)	193 C9H7NS2
5.	Thiazole, 2-(phenylthio)- (8CI9CI)	193 C9H7NS2

Sample file: >P3400 Spectrum #: 906
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	P_IU
1.	20*	948652	23277	"BIGDB	24	72	3	0	43	55	5	12

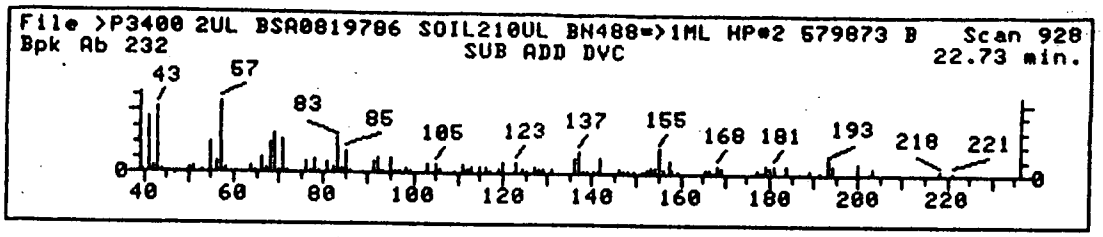


. Unknown #,9
Area = 45906.00 Tentative Concentration is 13.00

1.	Undecane, 3,8-dimethyl- (8CI)	184 C13H28
2.	Decane, 2,3,8-trimethyl- (9CI)	184 C13H28
3.	Nonane, 2-methyl-5-propyl- (8CI)	184 C13H28
4.	Undecane, 2,8-dimethyl- (8CI)	184 C13H28
5.	Undecane, 5-methyl- (8CI9CI)	170 C12H26
6.	Docosane (8CI9CI)	310 C22H46
7.	Decane, 5-propyl- (8CI)	184 C13H28

Sample file: >P3400 Spectrum #: 910
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

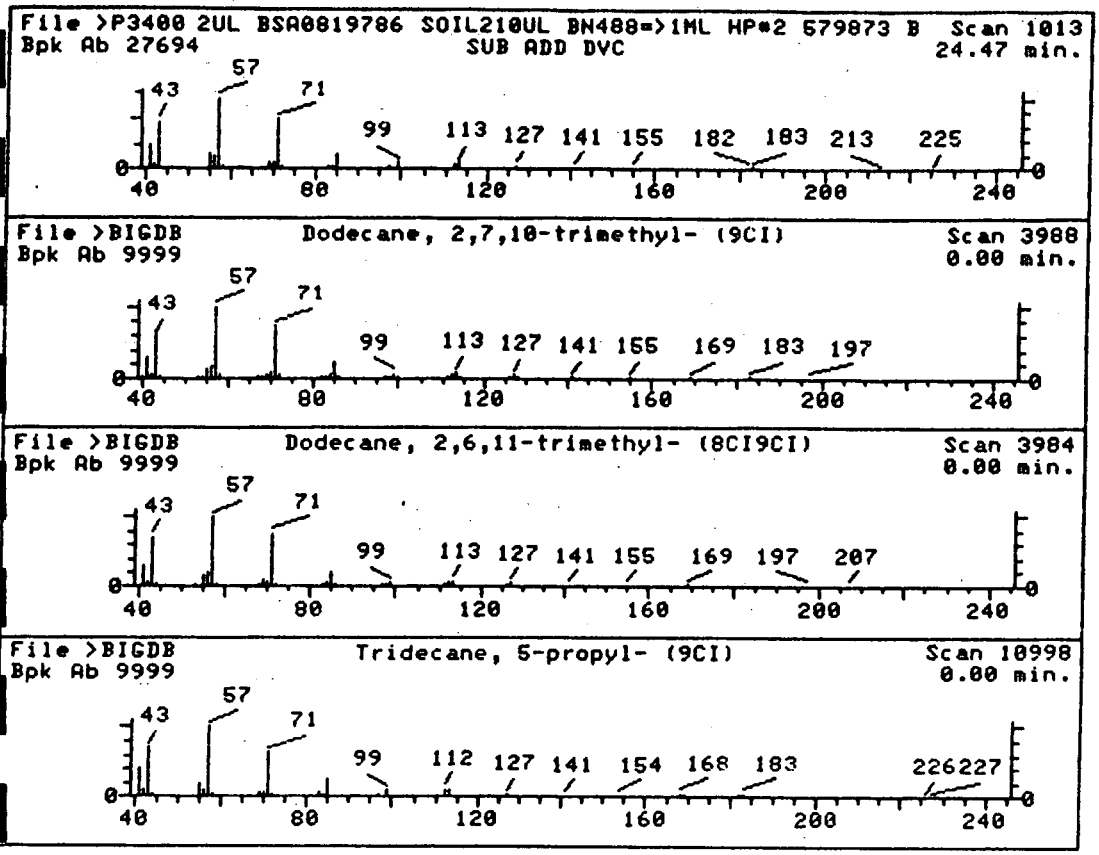
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26	17301303	6154	"BIGDB	60	48	2	0	94	39	10	12



Unknown #,10
Area = 18597.00 Tentative Concentration is 5.00

Sample file: >P3400 Spectrum #: 928

No data base entries were retrieved.

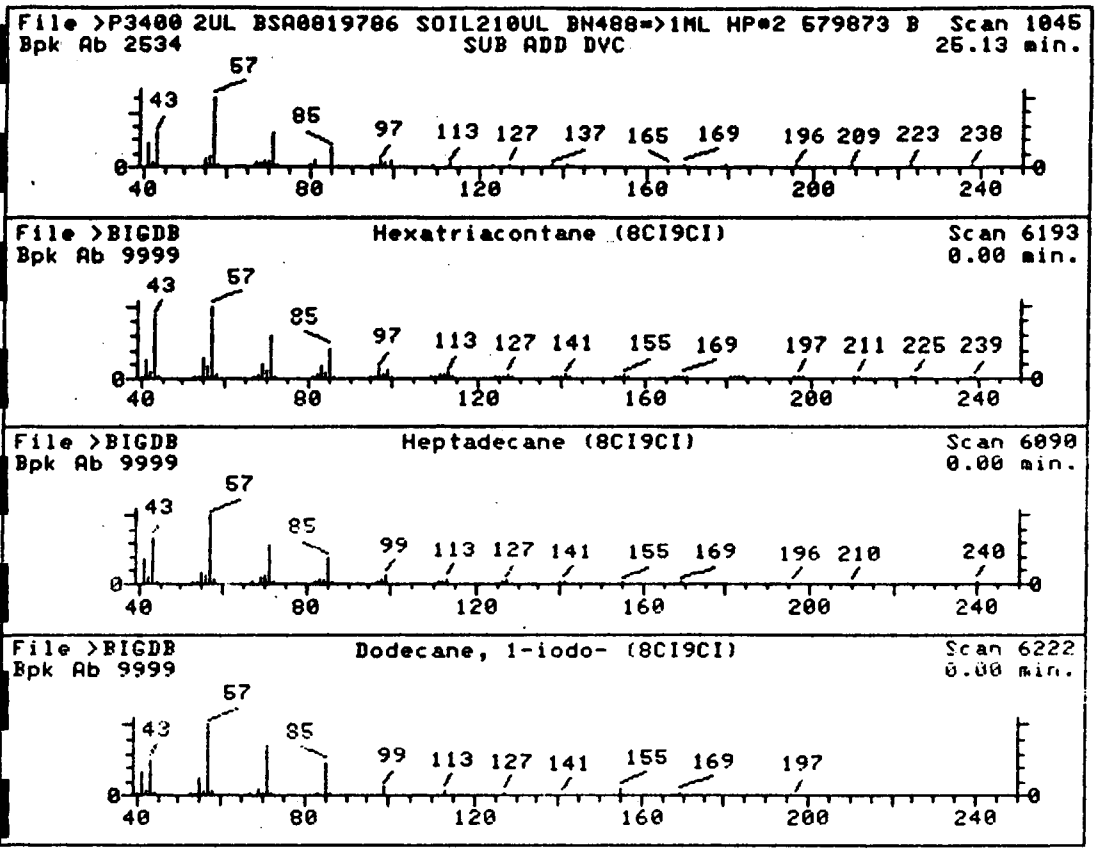


. Unknown #,11
Area = 291964.0 Tentative Concentration is 83.00

1.	Dodecane, 2,7,10-trimethyl- (9CI)	212 C15H32
2.	Dodecane, 2,6,11-trimethyl- (8CI9CI)	212 C15H32
3.	Tridecane, 5-propyl- (9CI)	226 C16H34
4.	Undecane, 3,6-dimethyl- (8CI)	184 C13H28
5.	Heptadecane, 2,6-dimethyl- (9CI)	268 C19H40
6.	Octane, 2,3,7-trimethyl- (9CI)	156 C11H24
7.	Nonane, 3,7-dimethyl- (8CI9CI)	156 C11H24

Sample file: >P3400 Spectrum #: 1013
Search speed: 1 Tilting option: N No. of ion ranges searched: 49

	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IV
1.	89	74645980	3988	"BIGDB	98	11	1	0	94	1	66	71
2.	83	31295564	3984	"BIGDB	72	34	2	0	91	4	57	24
3.	78	55045119	10998	"BIGDB	72	41	2	0	88	5	55	17
4.	76*	17301289	3955	"BIGDB	50	47	2	0	100	9	45	26
5.	70	54105678	3959	"BIGDB	84	32	3	0	100	9	42	19
6.	70	62016346	3962	"BIGDB	69	24	0	0	78	17	32	53
7.	70*	17302328	6100	"BIGDB	55	31	1	0	68	16	32	52

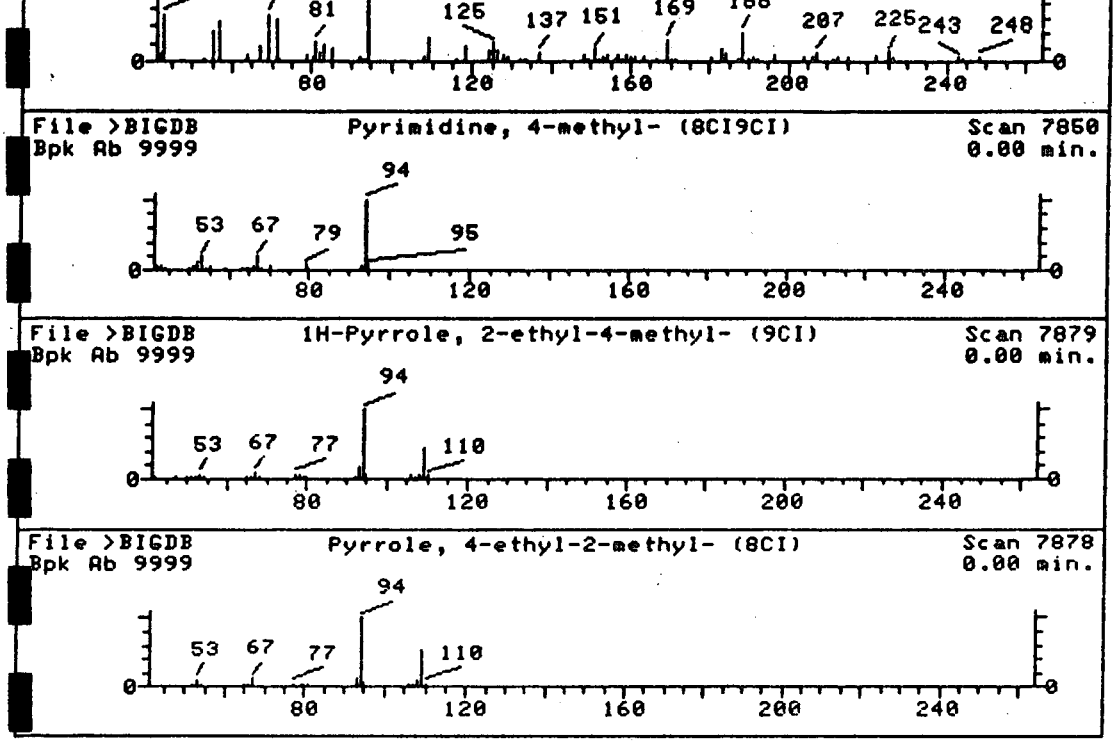


. Unknown #,12
Area = 32286.00 Tentative Concentration is 9.00

1.	Hexatriacontane (8CI9CI)	506	C36H74
2.	Heptadecane (8CI9CI)	240	C17H36
3.	Dodecane, 1-iodo- (8CI9CI)	296	C12H25I
4.	Tetradecane, 4-methyl- (8CI9CI)	212	C15H32
5.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296	C21H44
6.	Iron, tricarbonyl[N-(phenyl-2-pyridinylmethylene)benzenamine-N,N']- (9CI)	398	C21H14FeN2O3
7.	Pentatriacontane (8CI9CI)	492	C35H72

Sample file: >P3400 Spectrum #: 1045
Search speed: 1 Tilting option: N No. of ion ranges searched: 63

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60	630068	6193	"BIGDB	73	89	3	0	57	13	30	13

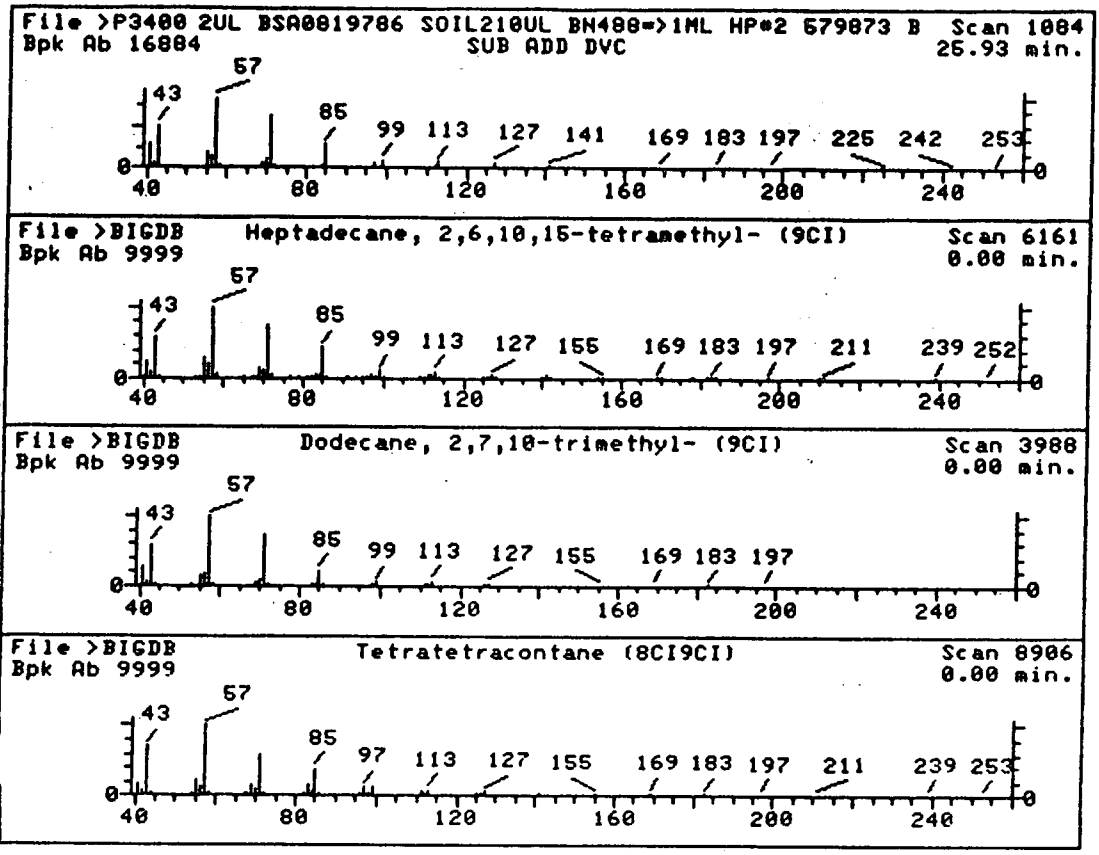


. Unknown #,13
Area = 32730.00 Tentative Concentration is 9.00

1.	Pyrimidine, 4-methyl- (8CI9CI)	94	C5H6N2
2.	1H-Pyrrole, 2-ethyl-4-methyl- (9CI)	109	C7H11N
3.	Pyrrole, 4-ethyl-2-methyl- (8CI)	109	C7H11N
4.	3-Cyclohexene-1-acetaldehyde, .alpha.,4-dimethyl- (8CI9CI)	152	C10H16O
5.	8-Azabicyclo[3.2.1]oct-6-en-3-one, 8-methyl- (8CI)	137	C8H11NO
6.	Phosphonic acid, methyl-, dimethyl ester (8CI9CI)	124	C3H9O3P
7.	Bicyclo[2.2.1]heptane, 2-methyl-3-methylene-2-(4-methyl-3-pentenyl)-, (1S-exo)- (9CI)	204	C15H24

Sample file: >P3400 Spectrum #: 1078
Search speed: 1 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	11*	3438468	7850	"BIGDB	26	66	3	0	100	62	2	13

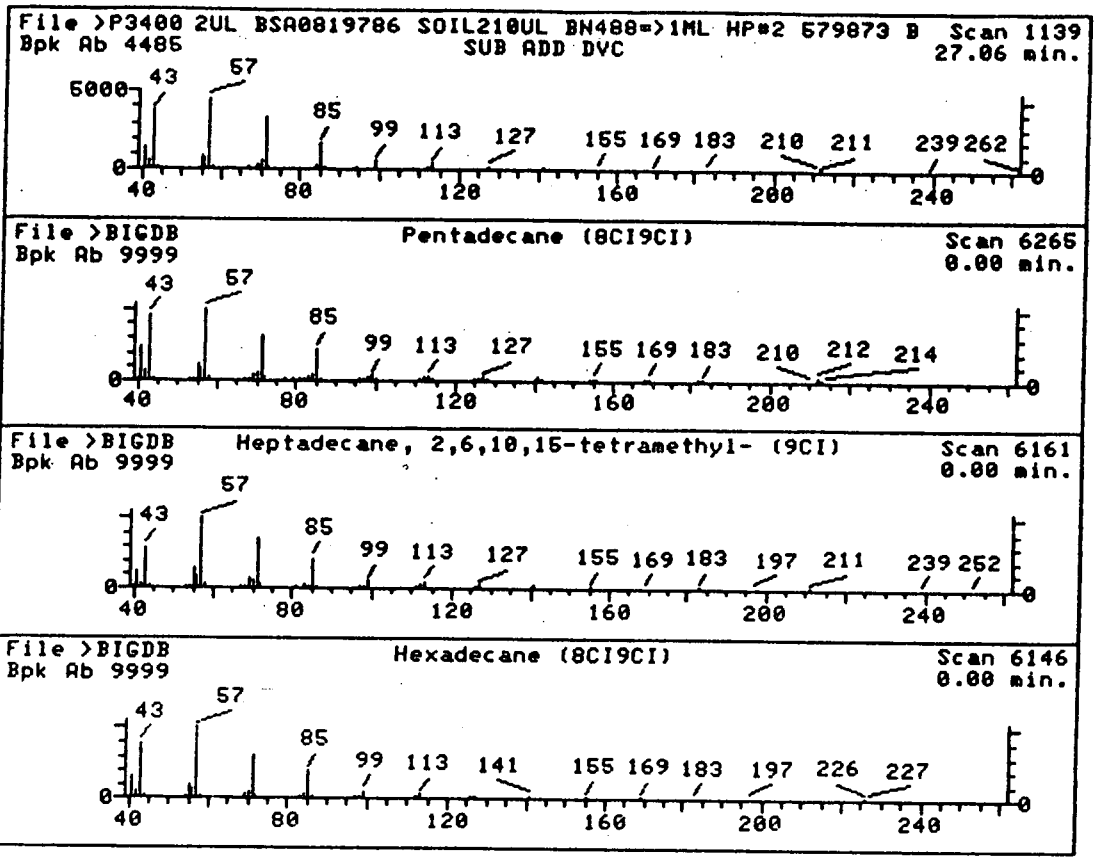


. Unknown #,14
Area = 216064.0 Tentative Concentration is 62.00

1.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296	C21H44
2.	Dodecane, 2,7,10-trimethyl- (9CI)	212	C15H32
3.	Tetratetracontane (8CI9CI)	618	C44H90
4.	Hexadecane, 7,9-dimethyl- (8CI9CI)	254	C18H38
5.	Hexadecane, 7-methyl- (8CI9CI)	240	C17H36
6.	Dodecane, 4,6-dimethyl- (9CI)	198	C14H30
7.	Iron, tricarbonyl[N-(phenyl-2-pyridinylmethylene)benzenamine-N,N']- (9CI)	398	C21H14FeN2O3

Sample file: >P3400 Spectrum #: 1084
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	83	54833486	6161	"BIGDB	93	40	2	0	78	3	57	28
2.	81	74645980	3988	"BIGDB	83	26	1	0	94	6	53	41
3.	70	7098228	8906	"BIGDB	67	89	2	0	90	8	42	14
4.	70	21164954	6224	"BIGDB	69	66	2	0	77	10	42	15
5.	70	26730201	4020	"BIGDB	63	61	2	0	86	6	42	13

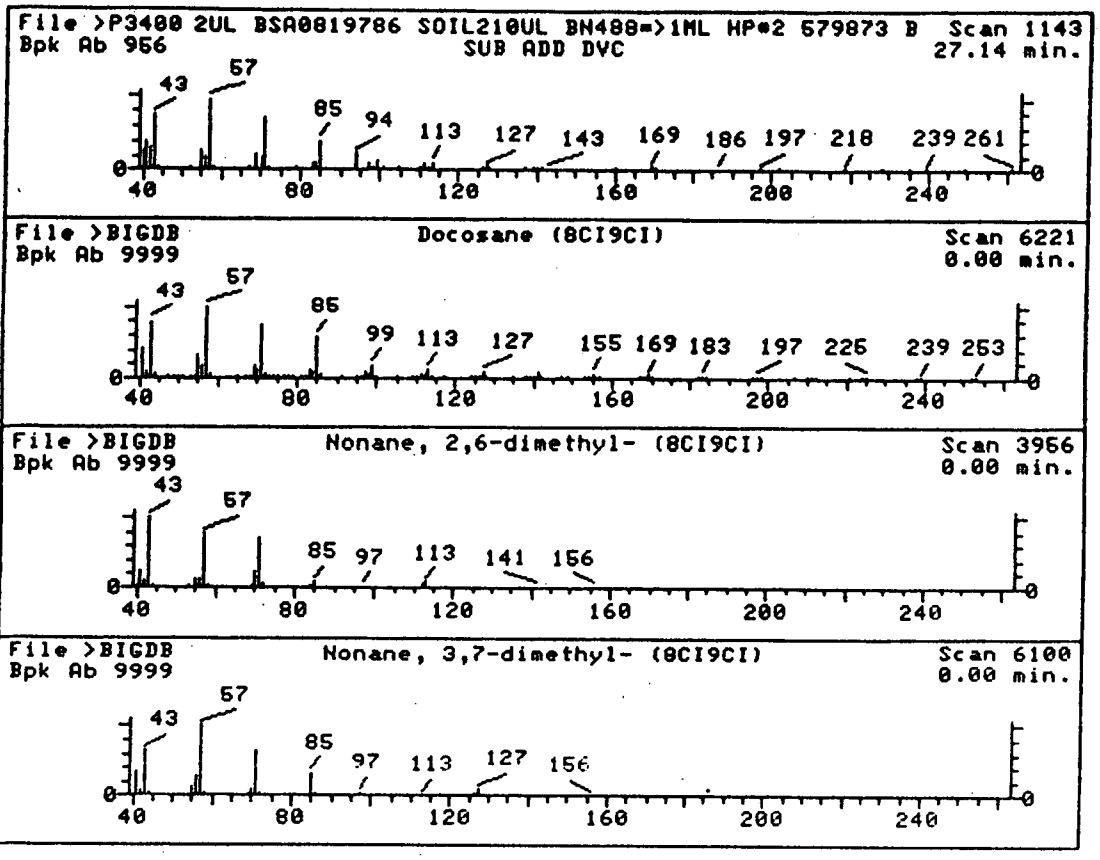


. Unknown #,15
Area = 80977.00 Tentative Concentration is 23.00

1.	Pentadecane (8CI9CI)	212 C15H32
2.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
3.	Hexadecane (8CI9CI)	226 C16H34
4.	Tridecane, 5-propyl- (9CI)	226 C16H34
5.	Hexatriacontane (8CI9CI)	506 C36H74
6.	Heptadecane (8CI9CI)	240 C17H36
7.	Undecane, 3,8-dimethyl- (8CI)	184 C13H28

Sample file: >P3400 Spectrum #: 1139
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	83	629629	6265	"BIGDB	81	39	2	0	86	5	57	22
2.	83	54833486	6161	"BIGDB	82	51	2	0	86	3	57	22
3.	81	544763	6146	"BIGDB	99	21	2	0	96	8	53	41
4.	79*	55045119	10998	"BIGDB	57	56	2	0	100	10	48	34
5.	78	630068	6193	"BIGDB	73	89	3	0	96	3	55	13
6.	76	629787	6090	"BIGDB	86	35	2	0	98	8	45	24
7.	76	17301303	6154	"BIGDB	76	32	2	0	97	3	45	26

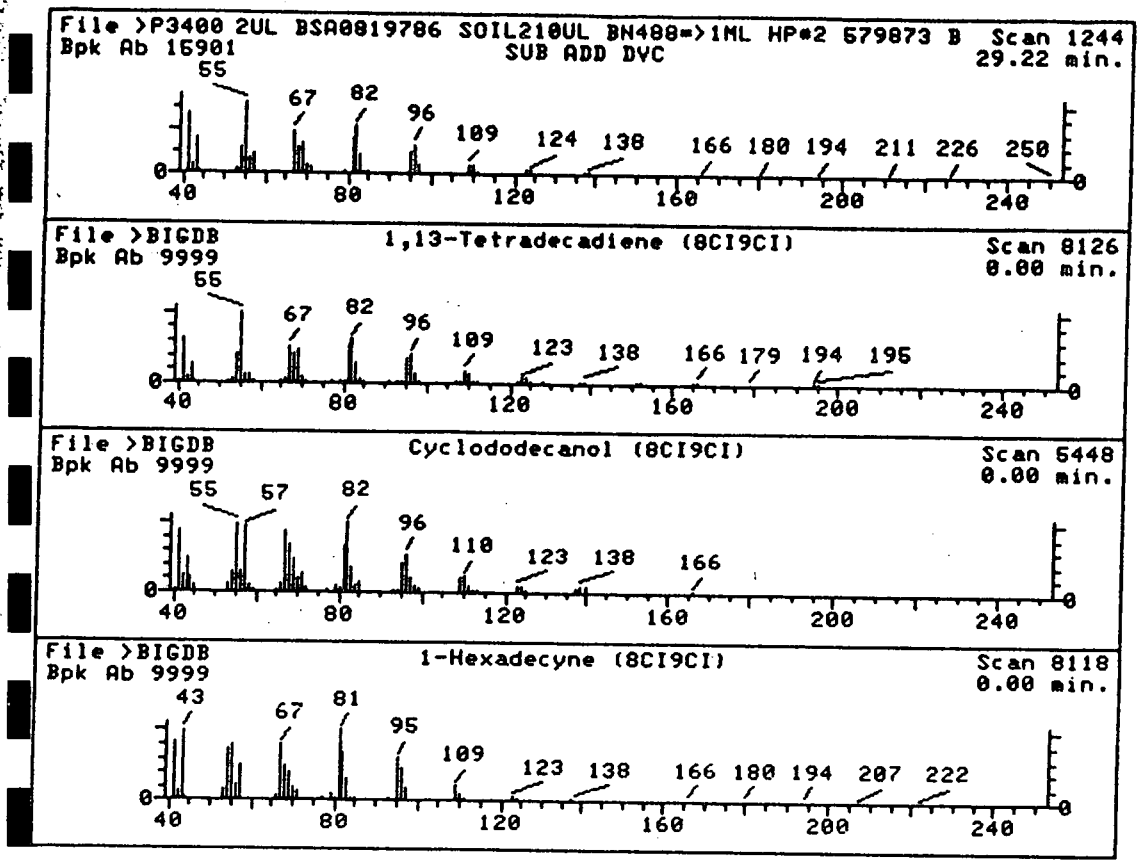


. Unknown #,16
Area = 17820.00 Tentative Concentration is 5.00

1.	Docosane (8CI9CI)	310 C22H46
2.	Nonane, 2,6-dimethyl- (8CI9CI)	156 C11H24
3.	Nonane, 3,7-dimethyl- (8CI9CI)	156 C11H24
4.	Hexadecane (8CI9CI)	226 C16H34
5.	Eicosane, 10-methyl- (9CI)	296 C21H44
6.	Pentatriacontane (8CI9CI)	492 C35H72
7.	Hexatriacontane (8CI9CI)	506 C36H74

Sample file: >P3400 Spectrum #: 1143
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	51	629970	6221	"BIGDB	95	52	2	0	71	29	19	29

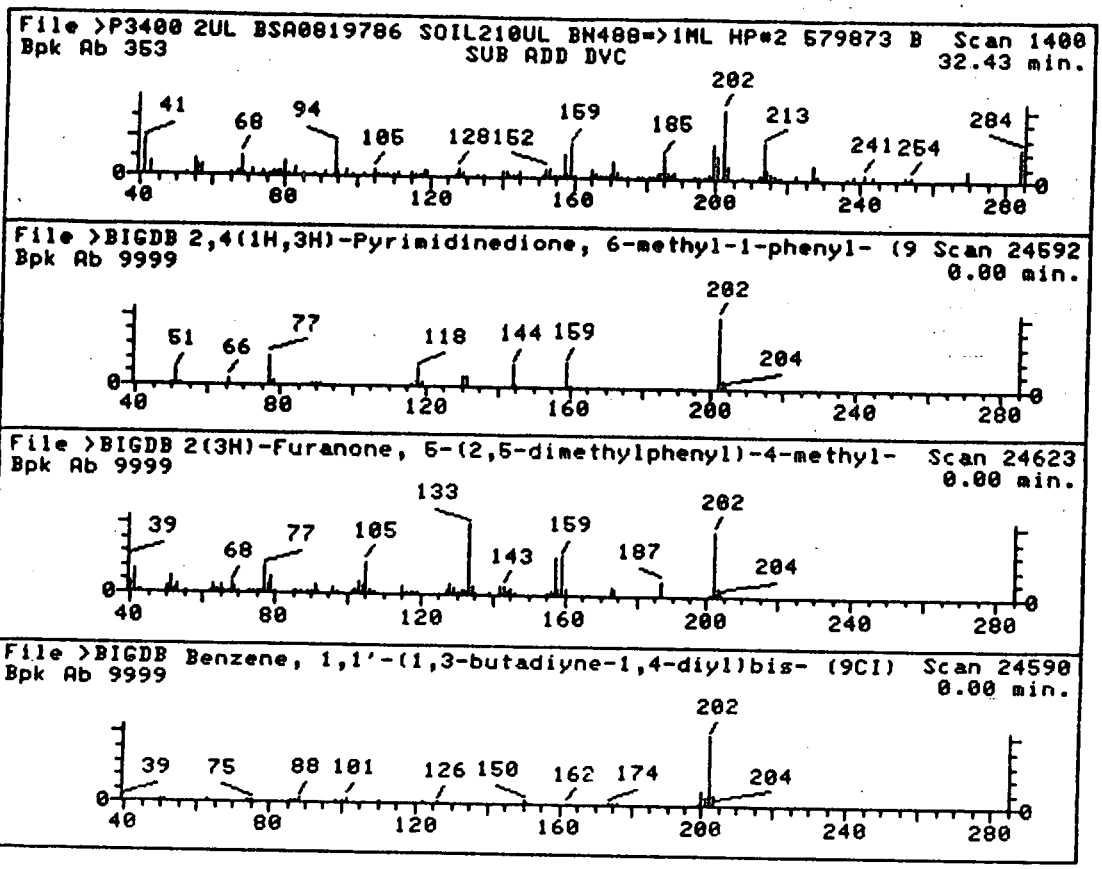


. Unknown #,17
Area = 523222.0 Tentative Concentration is 150.00

1. 1,13-Tetradecadiene (8CI9CI)	194 C14H26
2. Cyclododecanol (8CI9CI)	184 C12H24O
3. 1-Hexadecyne (8CI9CI)	222 C16H30
4. 1,12-Tridecadiene (8CI9CI)	180 C13H24
5. 1,14-Tetradecanediol (8CI9CI)	230 C14H30O2
6. 1,12-Dodecanediol (8CI9CI)	202 C12H26O2
7. Cyclododecene, (Z)- (8CI9CI)	166 C12H22

Sample file: >P3400 Spectrum #: 1244
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89	21964498	8126	"BIGDB	117	11	1	0	77	1	66	73
2.	76	1724396	5448	"BIGDB	95	48	3	0	55	9	45	21
3.	74*	629743	8118	"BIGDB	82	64	3	0	76	12	39	48

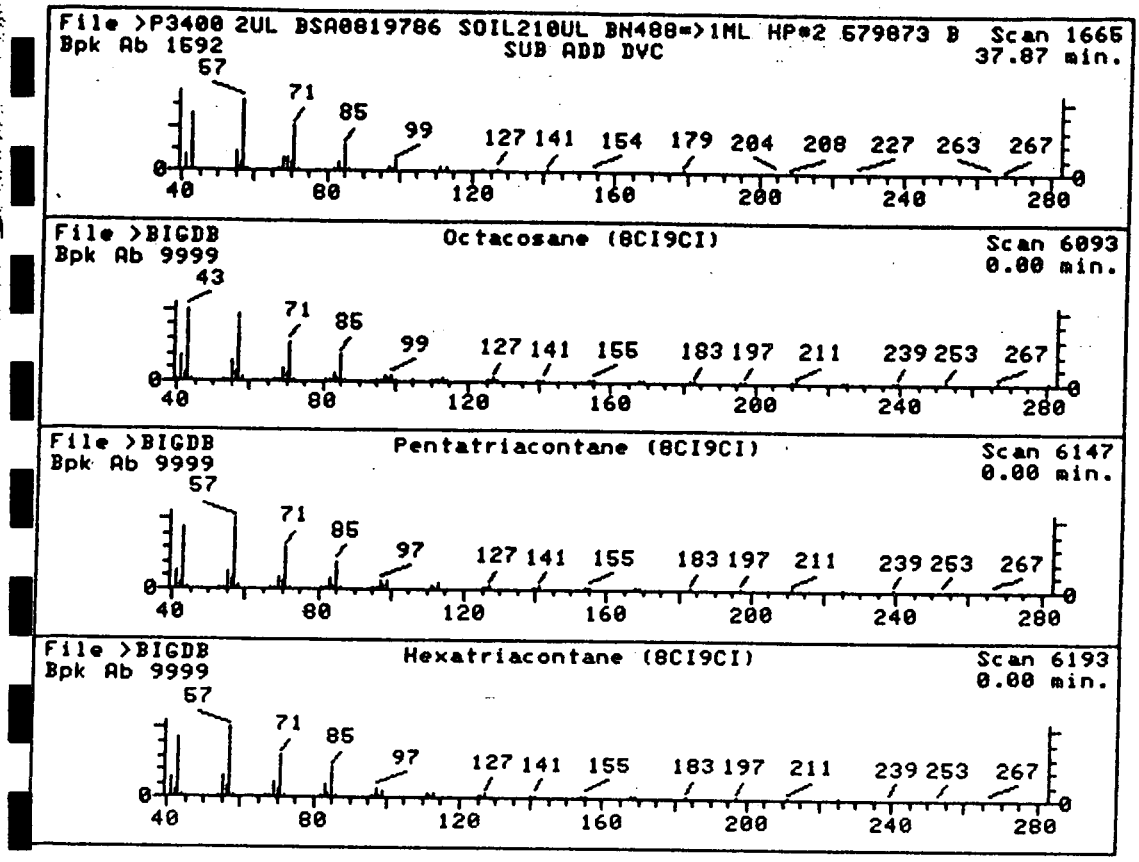


Unknown #,18
Area = 16131.00 Tentative Concentration is 5.00

1.	2,4(1H,3H)-Pyrimidinedione, 6-methyl-1-phenyl- (9CI)	202 C11H10N2O2
2.	2(3H)-Furanone, 5-(2,5-dimethylphenyl)-4-methyl- (9C	202 C13H14O2
3.	Benzene, 1,1'-(1,3-butadiyne-1,4-diyl)bis- (9CI)	202 C16H10
4.	Dibenzothiophene, 1,2,3,4-tetrahydro-8-methyl- (9CI)	202 C13H14S
5.	Fluoranthene (8CI9CI)	202 C16H10
6.	Pyrene (8CI9CI)	202 C16H10

Sample file: >P3400 Spectrum #: 1400
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15*	1015641	24592	"BIGDB	32	93	3	0	100	59	3	13

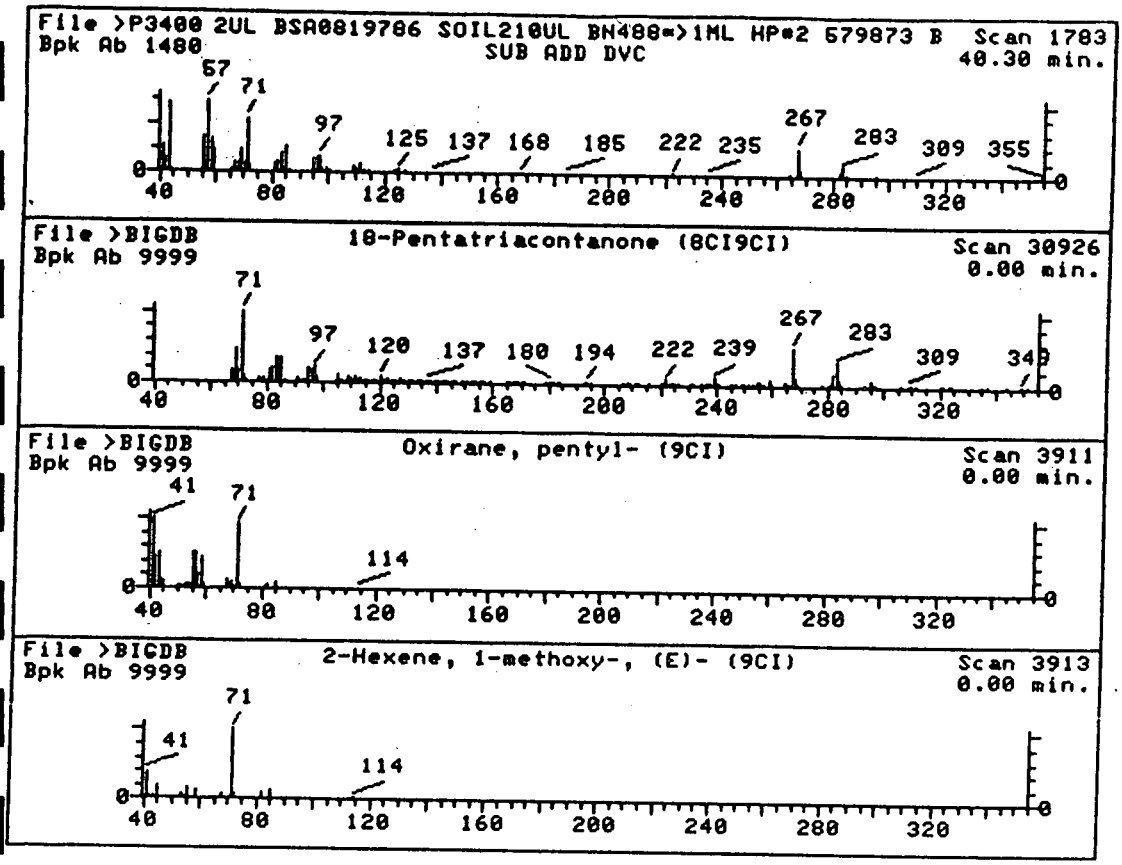


Unknown #,19
Area = 19248.00 Tentative Concentration is 5.00

1.	Octacosane (8CI9CI)	394 C28H58
2.	Pentatriacontane (8CI9CI)	492 C35H72
3.	Hexatriacontane (8CI9CI)	506 C36H74
4.	Eicosane (8CI9CI)	282 C20H42
5.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
6.	Pentacosane (8CI9CI)	352 C25H52
7.	Undecane, 3,8-dimethyl- (8CI)	184 C13H28

Sample file: >P3400 Spectrum #: 1665
Search speed: 1 Tilting option: N No. of ion ranges searched: 57

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	58	630024	6093	"BIGDB	90	47	1	0	71	38	19	49



Unknown #,20
Area = 124099.0 Tentative Concentration is 35.00

1.	18-Pentatriacontanone (8CI9CI)	506 C35H70O
2.	Oxirane, pentyl- (9CI)	114 C7H14O
3.	2-Hexene, 1-methoxy-, (E)- (9CI)	114 C7H14O
4.	Azacyclotridecan-2-one, 1-[3-(methylamino)propyl]- (9CI)	268 C16H32N2O
5.	Ether, methyl 1-octadecenyl (8CI)	282 C19H38O
6.	2,6-Octadiene-4,5-diol (8CI9CI)	142 C8H14O2
7.	Cyclohexanol, 3,5-dimethyl- (8CI9CI)	128 C8H16O

Sample file: >P3400 Spectrum #: 1783
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

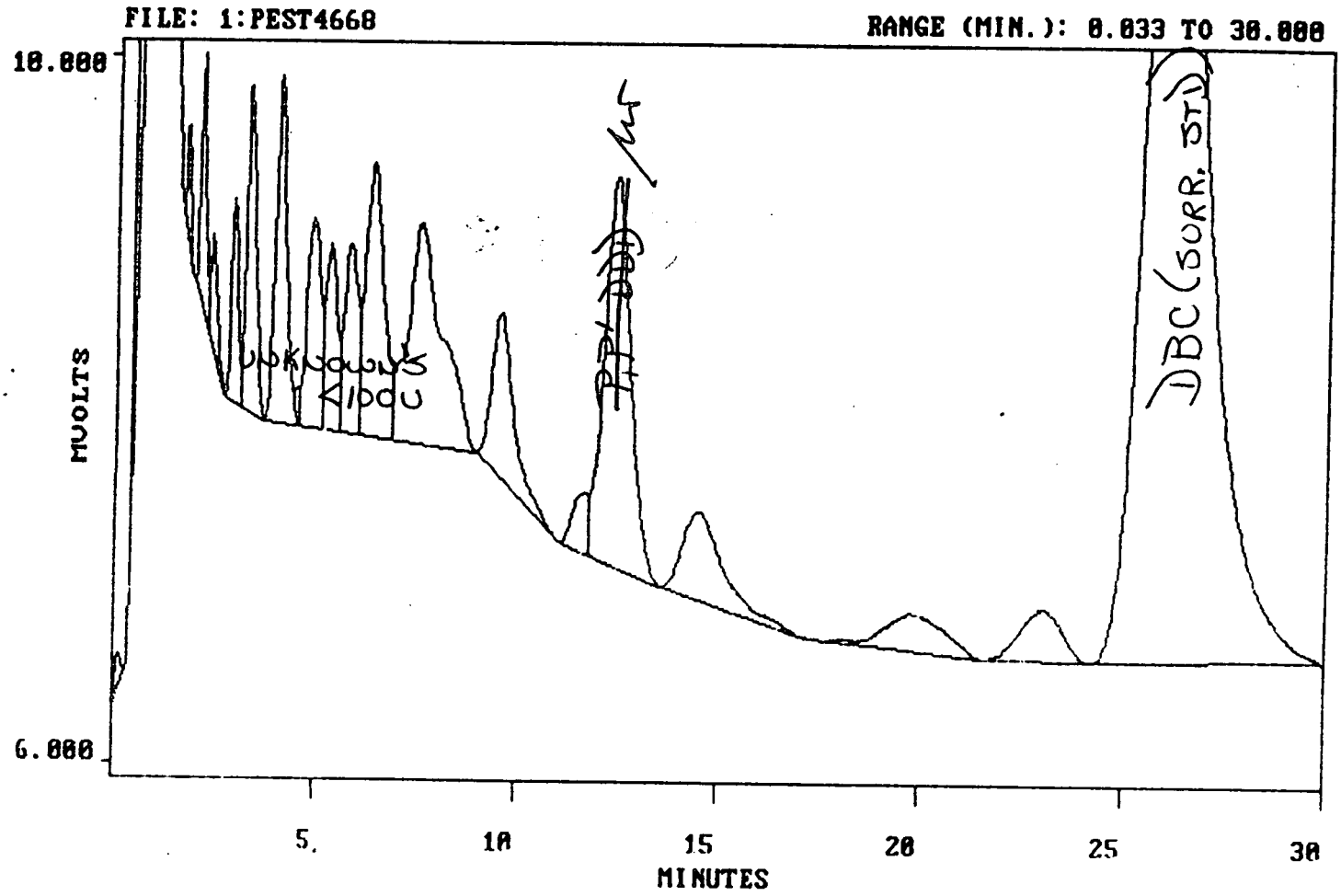
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	43	504530	30926	"BIGDB	81	115	3	0	75	22	17	14

BSA0819786

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:16:53:14 Date:MON 14 SEP 87

Time:19:34:46 Date:FRI 11 SEP 87
Method:PEST1



Channel # .....REINT Time:16:34:54 Date:MON 14 SEP 87

Sample name.....
Data file.....1:PEST4668
Method name... ....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....19:34:46 Acq. date....FRI 11 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
                Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..23
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.575	LINDANE	0	
3.130	HEPTACHLOR	0	
3.770	ALDRIN	0	
7.139	ENDOSULFAN I	0	
8.208	P,P'-DDE	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
27.978	DBC/METHOX/END.K	0	

Romanell
9/16/87

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.171			0.016	2337	203	BB
2	0.613			91.760	13647788	859128	BB
3	0.970			0.218	32362	8690	BB
4	1.719			0.027	3969	665	BB
5	2.098		~~alpha-BHC~~	0.100	[illegible]	[illegible]	[illegible]

370

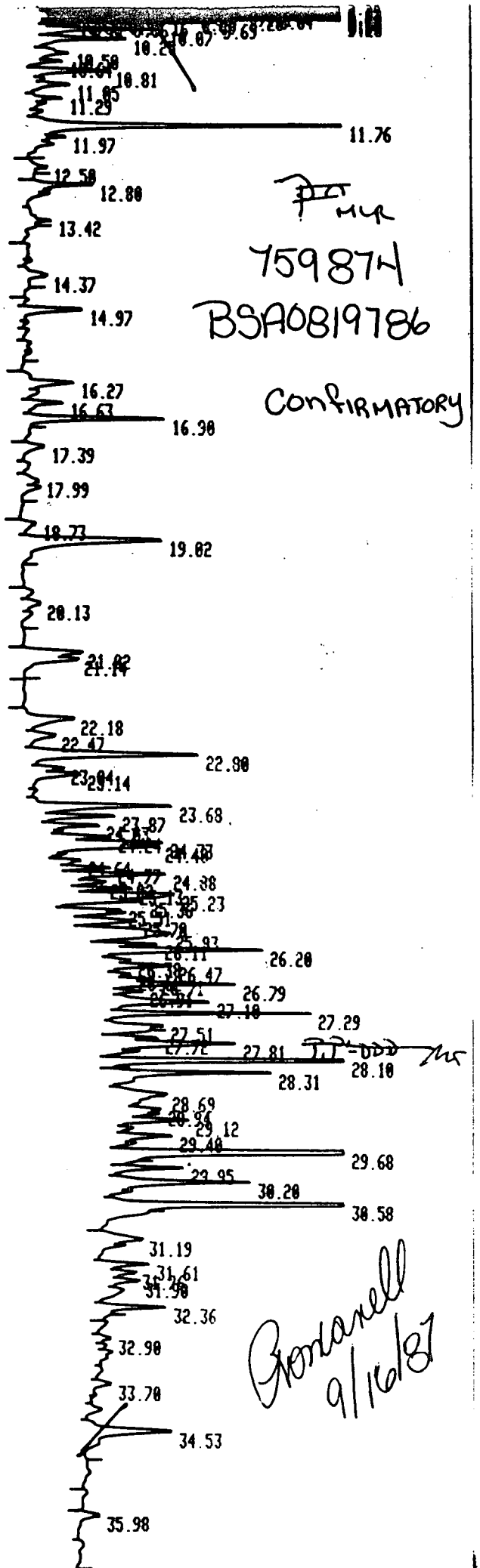
6	2.397		0.045	6742	687	VB
7	2.907	~~beta-BHC~~ MLK	0.092	13651	1213	BV
8	3.288	~~delta-BHC~~ MLK	0.206	30582 159.4/5.7	1947	VB
		UNKNOWNS <100U				
9	4.028		0.258	38351	2066	BE
10	4.508		0.011	1680	207	EV
11	4.848		0.193	28686	1239	VV
12	5.292		0.144	21474	1110	VV
13	5.774	Hept. Ep. ~~HEPTACHLOR EPOXIDE~~ MLK	0.175	25990 233.9/33	1124	VV
14	6.329		0.342	50923	1624	VV
15	7.529		0.525	78107	1310	VB
16	9.523		0.240	35696	963	BB
17	11.636 *	unknown	0.062	9283	352	BV
18	12.382	~~P,P' DDE~~	0.680	101154	2302	VB
19	14.483	~~P,P'-DDT~~ MLK	0.248	36910 81.5/184	524	BB
20	18.156		0.004	626	21	BV
21	19.830		0.149	22167	225	VB
22	23 088 S	MIREX (STD.)	0.145	21624	304	BB
23	26.134	DBC (SURR STD).	4.360	648452 300/639	6258	BB
TOTALS			100.000	14873377		

100U UNKNOWN

500 ug/kg DBC SPIKED IN

128% REC.

* $\frac{101\,154}{200 \times 5} \times 3 = 303$ ng/sample



759874

BSA0819786

Confirmatory

Gonzanell 9/16/87

WORKFILE NAME:
SAMPLE # 1

HP5840
SPB608

AREA%

RT	AREA	TYPE	AR/HT	AREA%
3.09	134560	BV	0.068	0.567
3.19	39537	VP	0.040	0.167
3.32	114820	PP	0.048	0.484
4.18	29563	BB	0.072	0.125
5.54	571320	PB	0.036	2.409
6.09	28429	PV	0.046	0.120
6.23	83347	VV	0.036	0.351
6.28	62344	D VP	0.042	0.263
6.47	73205	PV	0.045	0.309
6.57	107840	VV	0.039	0.455
6.72	57969	VP	0.041	0.244
6.87	483180	PV	0.036	2.037
7.02	1970000	VB	0.044	8.307
7.27	26817	BV	0.031	0.113
7.31	97819	VV	0.036	0.413
7.37	1342000	VV	0.035	5.659
7.49	50169	VV	0.037	0.212
7.61	318350	VP	0.083	1.342
7.78	36126	PV	0.040	0.152
7.89	463630	VV	0.051	1.955
8.04	211190	VV	0.049	0.891
8.13	312770	VV	0.051	1.319
8.23	123490	VV	0.043	0.521
8.28	217510	VV	0.057	0.917
8.39	29838	VV	0.049	0.126
8.46	47461	VV	0.041	0.200
8.53	454850	VV	0.077	1.918
8.65	2364800	VV	0.049	9.971
8.75	714520	VV	0.064	3.013
8.89	171790	VV	0.058	0.724
8.96	101350	D VV	0.064	0.427
9.16	131020	VV	0.063	0.552
9.25	416820	VV	0.052	1.758
9.36	145510	VV	0.085	0.614
9.62	76906	VV	0.081	0.324
9.69	223260	VV	0.065	0.941
9.99	48079	VV	0.055	0.203
10.07	151780	VV	0.061	0.640
10.25	142680	VV	0.080	0.602
10.50	85235	VV	0.119	0.359
10.64	40850	VP	0.067	0.172
10.81	110980	PV	0.075	0.468
11.05	68964	VV	0.091	0.291
11.29	38748	VV	0.063	0.163
11.76	556800	VV	0.063	2.348
11.97	48535	VV	0.072	0.205
12.80	72505	BV	0.064	0.306
14.37	43018	PB	0.104	0.181
14.97	86030	PV	0.078	0.363
16.27	103220	PV	0.111	0.435
16.63	55534	VV	0.082	0.234
16.90	168340	VB	0.066	0.710
17.39	41346	PP	0.108	0.174
17.99	37864	VV	0.122	0.160
18.73	38356	BV	0.128	0.162
19.02	332950	VB	0.126	1.404
20.13	42484	VV	0.126	0.179
21.02	112150	PV	0.099	0.473
21.14	116340	VB	0.110	0.491
22.18	130560	PV	0.135	0.551
22.47	75050	VV	0.132	0.317
22.80	305110	VV	0.095	1.287
23.04	49748	VV	0.074	0.210
23.14	97255	VV	0.102	0.410
23.68	223220	PV	0.086	0.941

372

23.87	106540	VV	0.073	0.449
24.03	78404	VV	0.071	0.331
24.24	98676	VV	0.077	0.416
24.33	136850	VV	0.061	0.577
24.40	169740	VV	0.080	0.716
24.64	51909	VV	0.087	0.219
24.77	71269	VV	0.064	0.301
24.88	163410	VV	0.076	0.689
25.02	86548	VV	0.088	0.365
25.13	92550	VV	0.065	0.390
25.23	252940	VV	0.114	1.067
25.36	88032	VP	0.057	0.371
25.51	55858	PV	0.051	0.236
25.70	132920	VV	0.103	0.561
25.93	340860	VV	0.185	1.434
26.11	95259	VV	0.064	0.402
26.20	314970	VV	0.092	1.328
26.38	75999	VV	0.086	0.321
26.47	149980	VV	0.095	0.632
26.62	52124	VV	0.069	0.220
26.71	76871	VV	0.067	0.324
26.79	190430	VV	0.072	0.803
26.91	55309	VV	0.067	0.233
27.10	221180	VV	0.110	0.933
27.29	204560	VP	0.053	0.863
27.51	24298	PB	0.042	0.103
27.72	42466	PV	0.054	0.179
27.81	216470	VV	0.094	0.913
28.10	776540	PB	0.047	3.274
28.31	253980	BP	0.086	1.071
28.69	189810	PV	0.187	0.800
28.94	72419	VV	0.083	0.305
29.12	123050	VV	0.089	0.519
29.40	91786	VV	0.087	0.387
29.68	1264200	PB	0.070	5.331
29.95	69419	BP	0.060	0.293
30.20	248260	PV	0.096	1.047
30.58	865280	PB	0.056	3.649
31.19	104720	BV	0.127	0.442
31.61	81522	PV	0.085	0.344
31.76	74392	VV	0.102	0.314
31.90	82145	VV	0.104	0.346
32.36	82837	PB	0.073	0.349
32.90	25456	PV	0.092	0.107
33.70	49429	VV	0.124	0.208
34.53	246680	PB	0.151	1.040
35.98	34955	BP	0.098	0.147
38.46	45330	BV	0.135	0.191
38.68	30552 I	VH	0.091	0.129

TOTAL AREA= 2.3716E+07
MUL FACTOR= 1.0000E+00

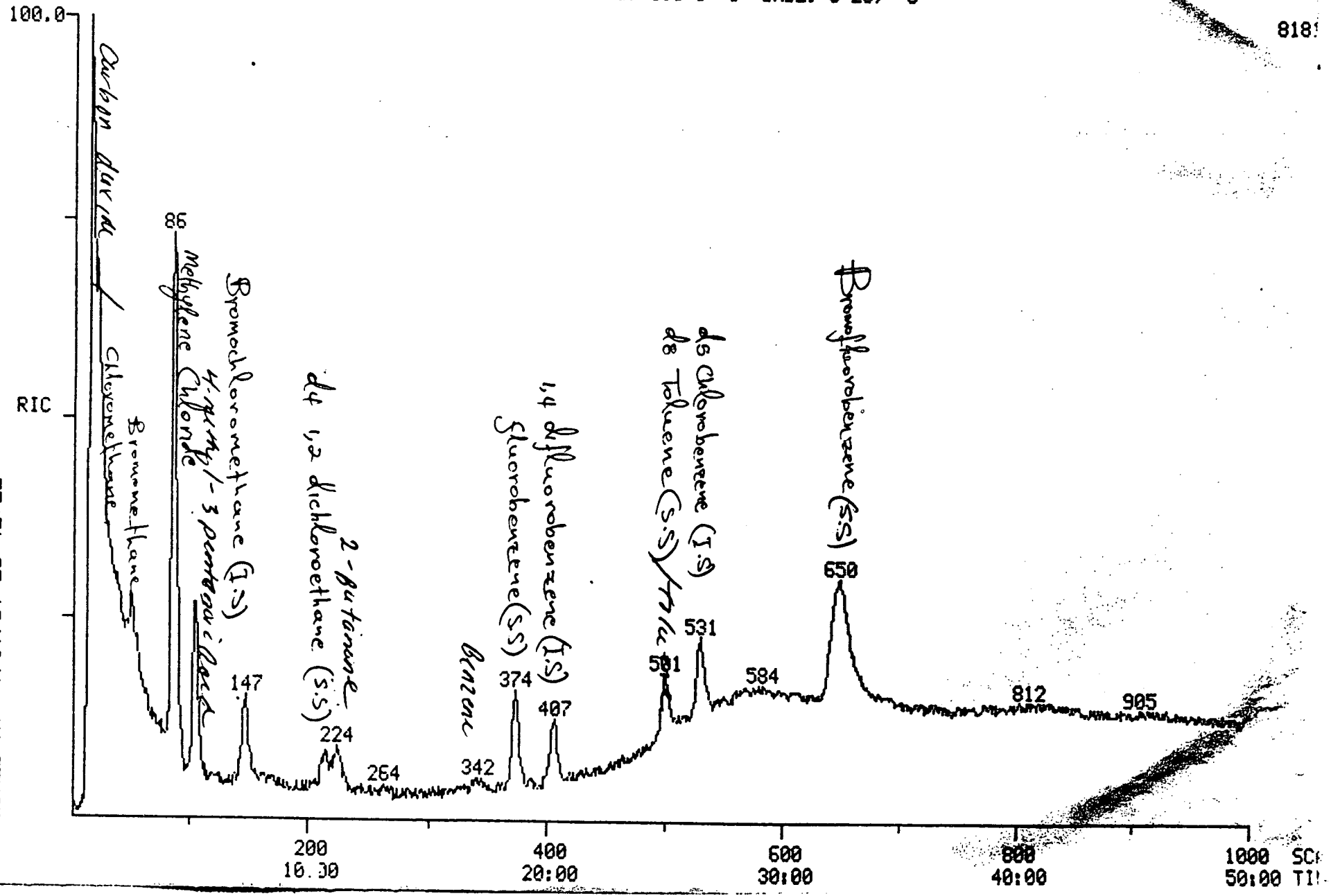
RAW DATA TRANSMITTED FILE: RW4076::-27
CARD-PTS TRANSMITTED FILE: CP4011::-27

III. 2. Reporting Package for NJDEP # Soil 3

RIC
08/28/87 18:02:00
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU7439 #1
CALI: PU7439 #2

SCANS 1 TO 1000



TCA FINISHED, 8 FOUND
FINISHED AT: 9/07/87 15:41:22

375

QUANTITATION REPORT FILE: PU7439

DATA: PU7439.TI
08/28/87 18:02:00
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	147	7:21	1	1.000	A BV	39413.	30.000 UG/L	1.11
2	65	214	10:42	1	1.456	A BB	82512.	31.234 UG/L	1.16
3	50	23	1:09	1	0.156	A BB	760272.	171.448 UG/L	6.34
4	94	34	1:42	1	0.231	A BV	14998.	37.688 UG/L	1.39
5	62	49	2:27	1	0.333	A BB	604.	0.313 UG/L	0.01
6	64	62	3:06	1	0.422	A*BB	2653.	1.328 UG/L	0.05
7	84	86	4:18	1	0.585	A BB	498843.	143.963 UG/L	5.32
8	43	104	5:12	1	0.707	A BB	856444.	224.700 UG/L	8.31
9	76	85	4:15	1	0.578	A BB	413.	14.027 UG/L	0.52
10	96	143	7:09	1	0.973	A BB	1801.	0.652 UG/L	0.02
11	NOT FOUND								
12	96	189	9:27	1	1.286	A*VB	1357.	0.780 UG/L	0.03
13	83	199	9:57	1	1.354	A*BV	1541.	0.299 UG/L	0.01
14	62	218	10:54	1	1.483	A BV	898.	0.161 UG/L	0.01
15	101	127	6:21	1	0.864	A*BV	1649.	0.525 UG/L	0.02
16	85	45	2:15	1	0.306	A BB	434.	9.789 UG/L	0.37
17	56	145	7:15	1	0.986	A*BB	1288.	181.095 UG/L	6.70
18	53	152	7:36	1	1.034	A*BB	1003.	317.464 UG/L	11.74
19	114	407	20:21	19	1.000	A BB	164445.	30.000 UG/L	1.11

54000
12000
N.G

~~20~~	~~NOT~~	~~FOUND~~								
21	97	216	10:48	19	0.531	A BB	526.	0.561	UG/L	0.02
22	117	224	11:12	19	0.550	A*BB	~~745.~~	~~1.289~~	~~UG/L~~	~~0.05~~
~~23~~	~~43~~	~~252~~	~~12:36~~	~~19~~	~~0.619~~	~~A BB~~	~~5147.~~	~~5.305~~	~~UG/L~~	~~0.19~~
24	83	269	13:27	19	0.661	A*BV	2345.	0.992	UG/L	0.04
25	63	280	14:00	19	0.688	A BB	403.	0.319	UG/L	0.01
26	75	312	15:36	19	0.767	A BV	1078.	0.760	UG/L	0.03
27	130	304	15:12	19	0.747	A*BB	784.	0.300	UG/L	0.01
28	129	344	17:12	19	0.845	A*BB	1439.	0.641	UG/L	0.02
29	97	304	15:12	19	0.747	A BB	843.	0.343	UG/L	0.01
30	78	~~305~~ 342	15:15	19	0.749	A BB	~~1238.~~ 1995	~~0.157~~	~~UG/L~~ 1260	0.01
31	75	333	16:39	19	0.818	A*BB	~~3669.~~	1.866	UG/L	0.07
32	63	342	17:06	19	0.840	A*BB	3226.	0.511	UG/L	0.02
33	173	407	20:21	19	1.000	A BB	342.	0.269	UG/L	0.01
34	117	531	26:33	34	1.000	A BB	130623.	30.000	UG/L	1.11
~~35~~	~~43~~	~~431~~	~~21:33~~	~~34~~	~~0.812~~	~~A*BV~~	~~57640.~~	~~973.893~~	~~UG/L~~	~~36.02~~
~~36~~	~~43~~	~~442~~	~~22:06~~	~~34~~	~~0.832~~	~~A VB~~	~~27340.~~	~~123.499~~	~~UG/L~~	~~4.57~~
37	164	487	24:21	34	0.917	A BB	293.	0.151	UG/L	0.01
38	83	488	24:24	34	0.919	A VV	6499.	~~1.630~~	~~UG/L~~	0.06
39	92	508	25:24	34	0.957	A*BB	10724.	2.066	UG/L	0.08
40	112	526	26:18	34	0.991	A*VV	3143.	0.586	UG/L	0.02
41	106	543	27:09	34	1.023	A*BB	~~3044.~~	1.165	UG/L	0.04
~~42~~	~~104~~	~~601~~	~~30:03~~	~~34~~	~~1.132~~	~~A*BB~~	~~1453.~~	~~30.427~~	~~UG/L~~	~~1.13~~
~~43~~	~~106~~	~~621~~	~~31:03~~	~~34~~	~~1.169~~	~~A*VB~~	~~5762.~~	~~94.008~~	~~UG/L~~	~~3.48~~
~~44~~	~~106~~	~~621~~	~~31:03~~	~~34~~	~~1.169~~	~~A*VB~~	~~5762.~~	~~188.017~~	~~UG/L~~	~~6.95~~
45	146	796	39:48	34	1.499	A BB	1302.	0.353	UG/L	0.01
46	146	833	41:39	34	1.569	A BB	2963.	0.852	UG/L	0.03
47	146	833	41:39	34	1.569	A*BB	3867.	0.915	UG/L	0.03
48	96	374	18:42	34	0.704	A BB	258325.	32.412	UG/L	1.20
49	95	646	32:18	34	1.217	A BB	162062.	36.120	UG/L	1.34

~~MB ID#~~

~~N.G~~ 790 J,B

~~N.G~~

~~N.G~~ 630 J,B

~~N.G 100%~~

C Chapman 9/14/87

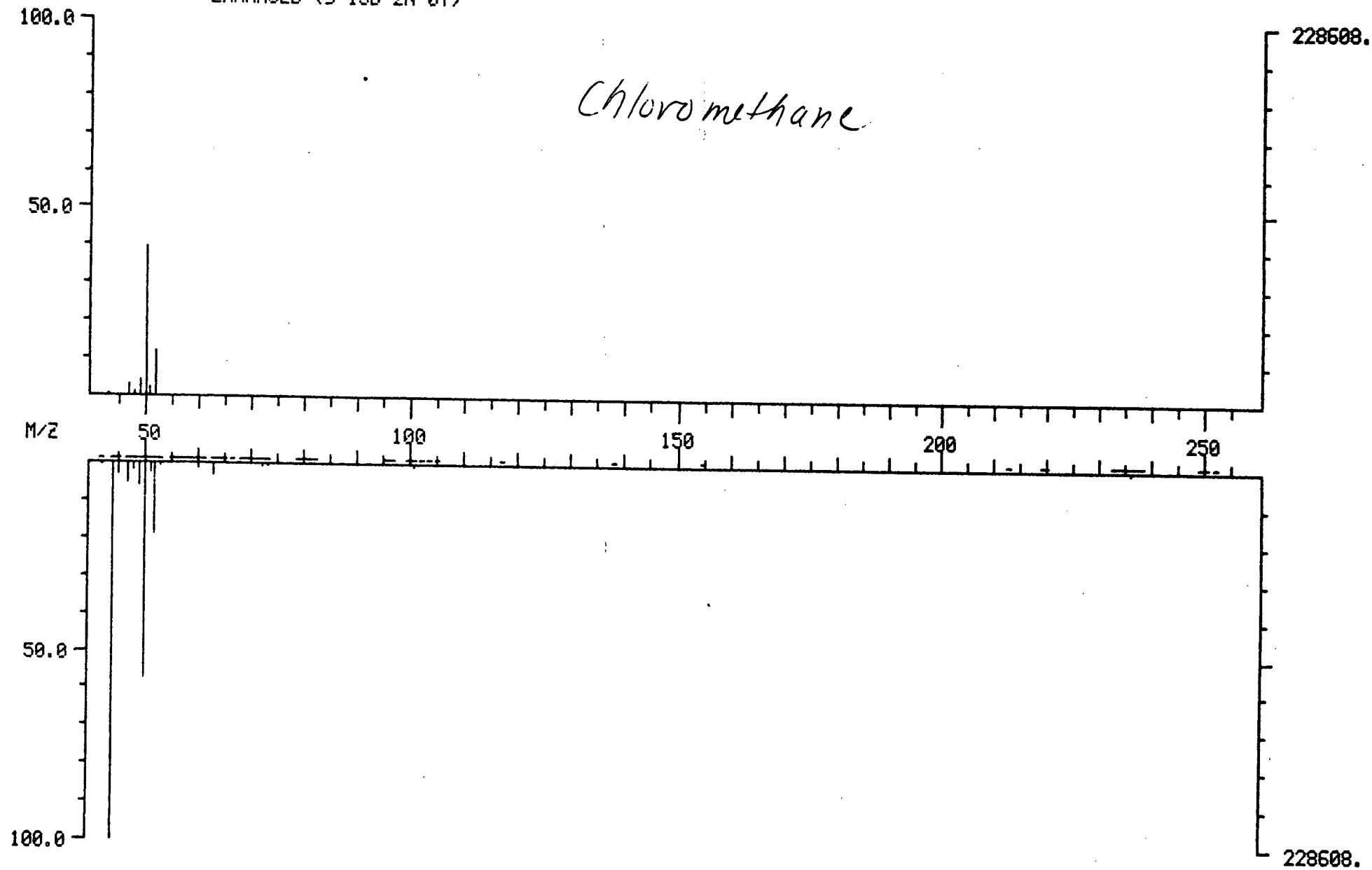
Non Targeted Compounds

	scan	Mf pk	area	amt (ug/kg)
1.	15	1	6911990	9500 J,B
2.	104	1	1043800	14000 J
3.	224	1	371008	5100 J.

DUAL MASS SPECTRUM
08/28/87 18:02:00 + 1:09
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 #23
CALI: PU7439 #2

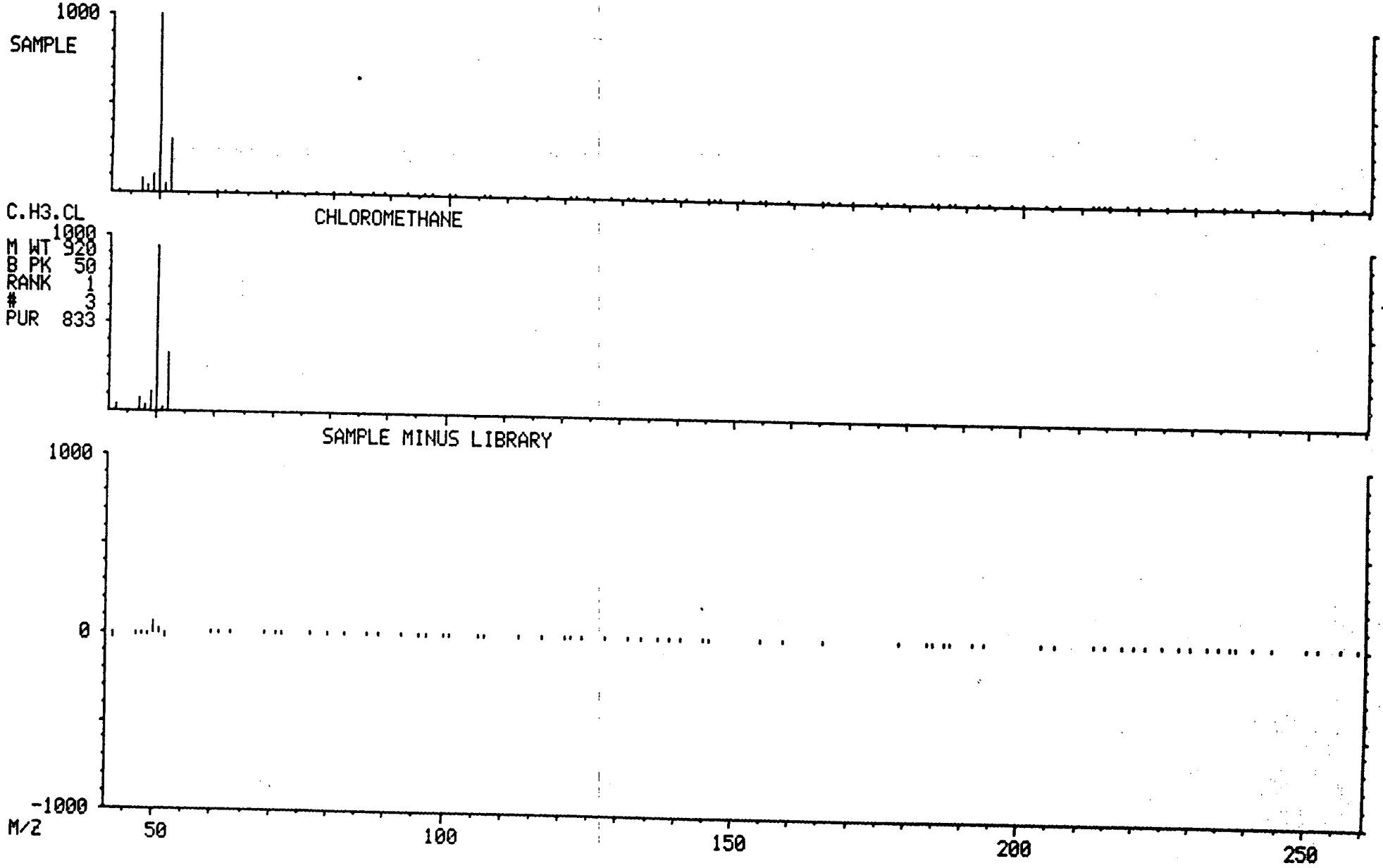
BASE M/Z: 50/ 44
RIC: 150527./ 474111.



LIBRARY SEARCH
08/28/87 18:02:00 + 1:09
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 # 23
CALI: PU7439 # 2

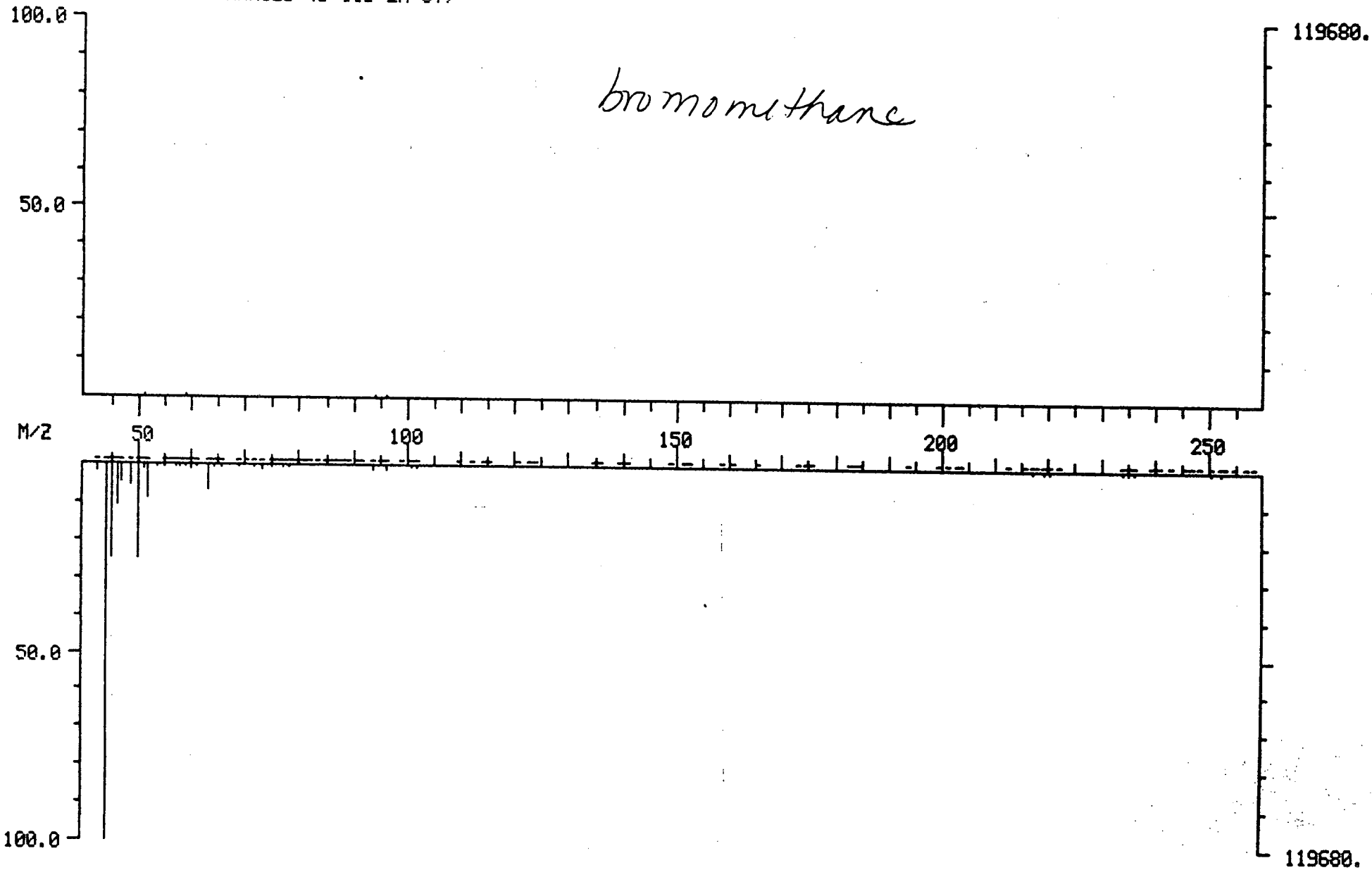
BASE M/Z: 50
RIC: 149247.



DUAL MASS SPECTRUM
08/28/87 18:02:00 + 1:42
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 #34
CALI: PU7439 #2

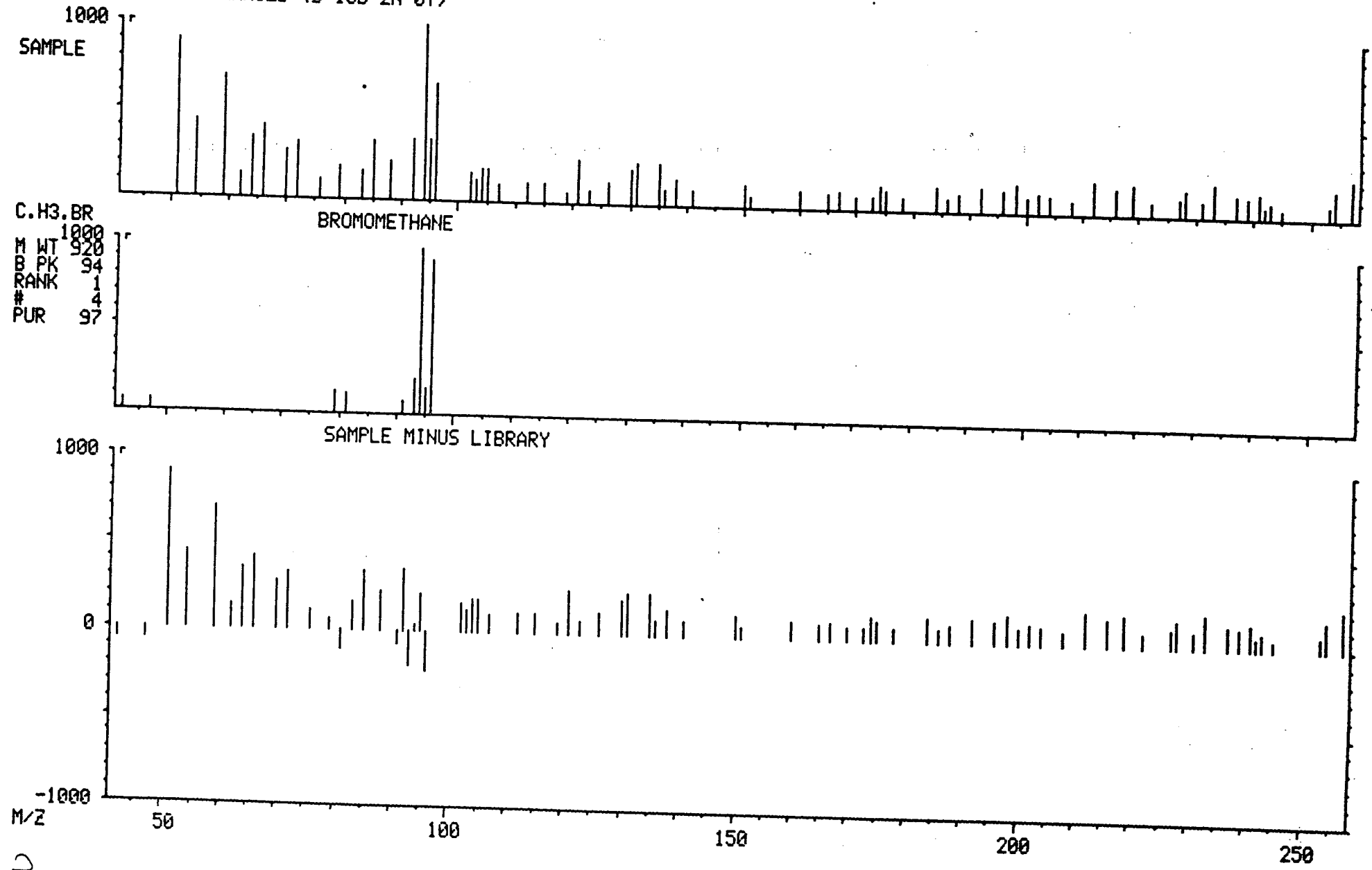
BASE M/Z: 94/ 44
RIC: 10415./ 261887.



LIBRARY SEARCH
08/28/87 18:02:00 + 1:42
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 # 34
CALI: PU7439 # 2

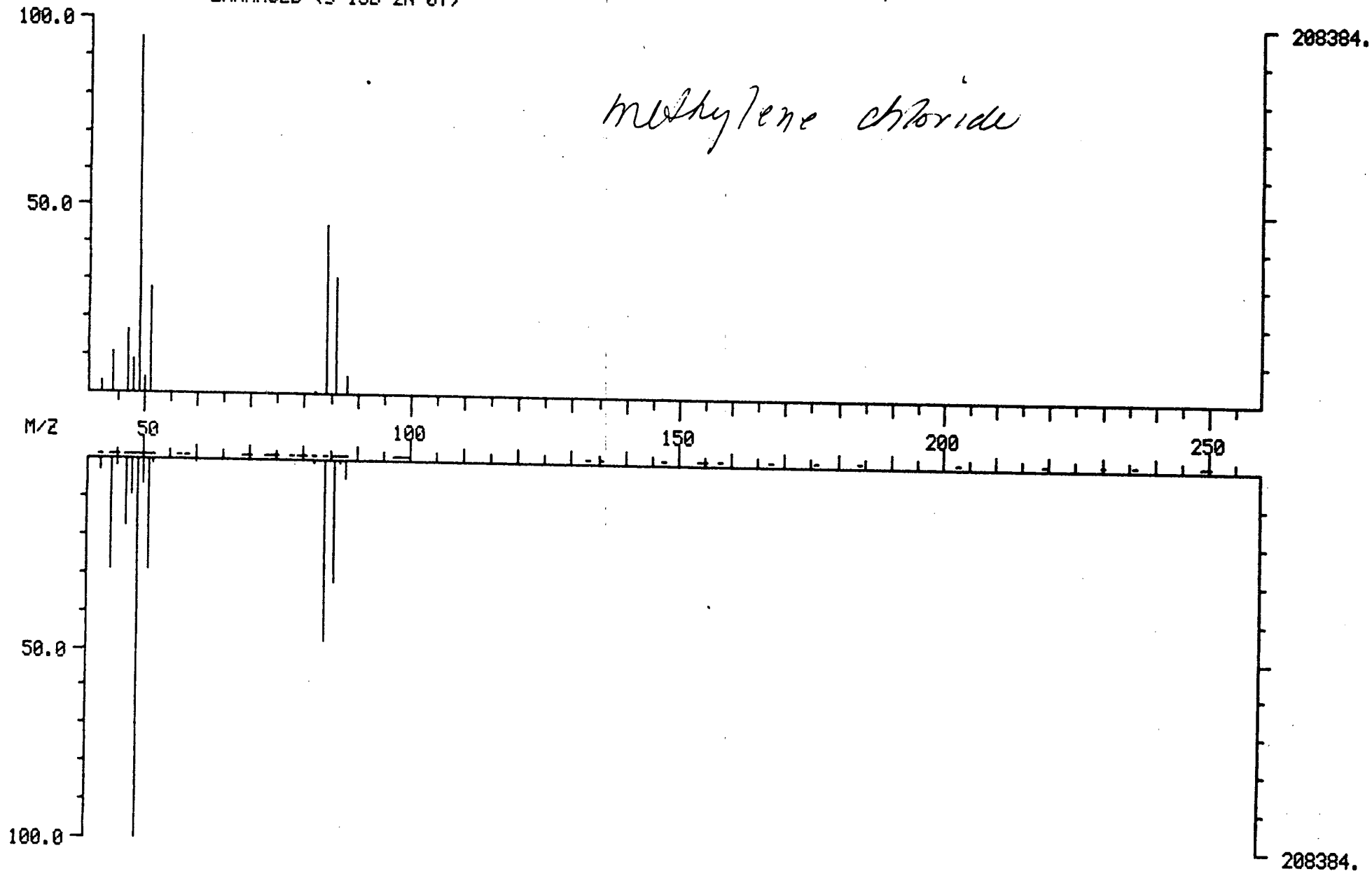
BASE M/Z: 94
RIC: 9759.



DUAL MASS SPECTRUM
08/28/87 18:02:00 + 4:18
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 #86
CALI: PU7439 #2

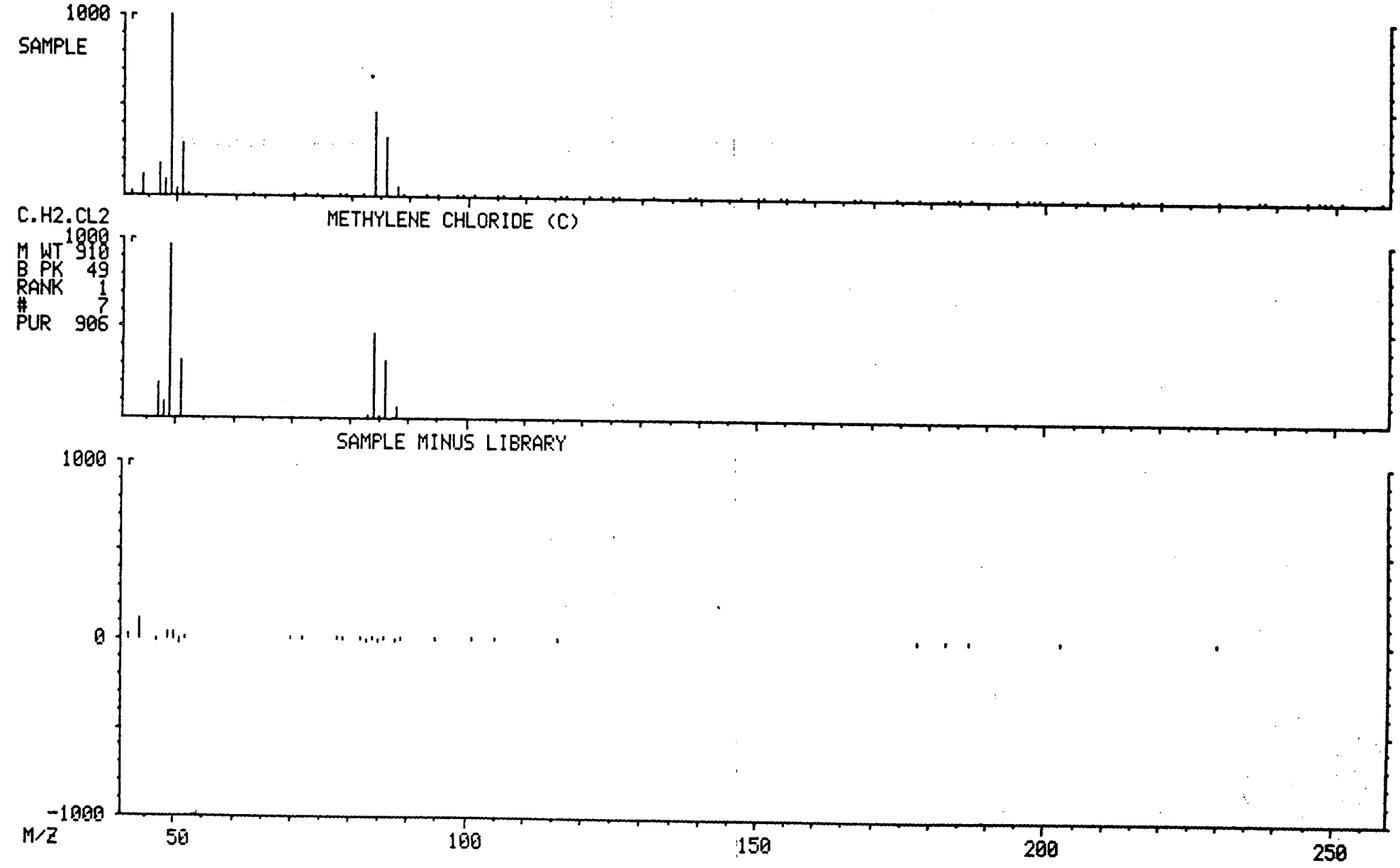
BASE M/Z: 49/ 49
RIC: 515583./ 592895.



LIBRARY SEARCH
08/28/87 18:02:00 + 4:18
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 # 86
CALI: PU7439 # 2

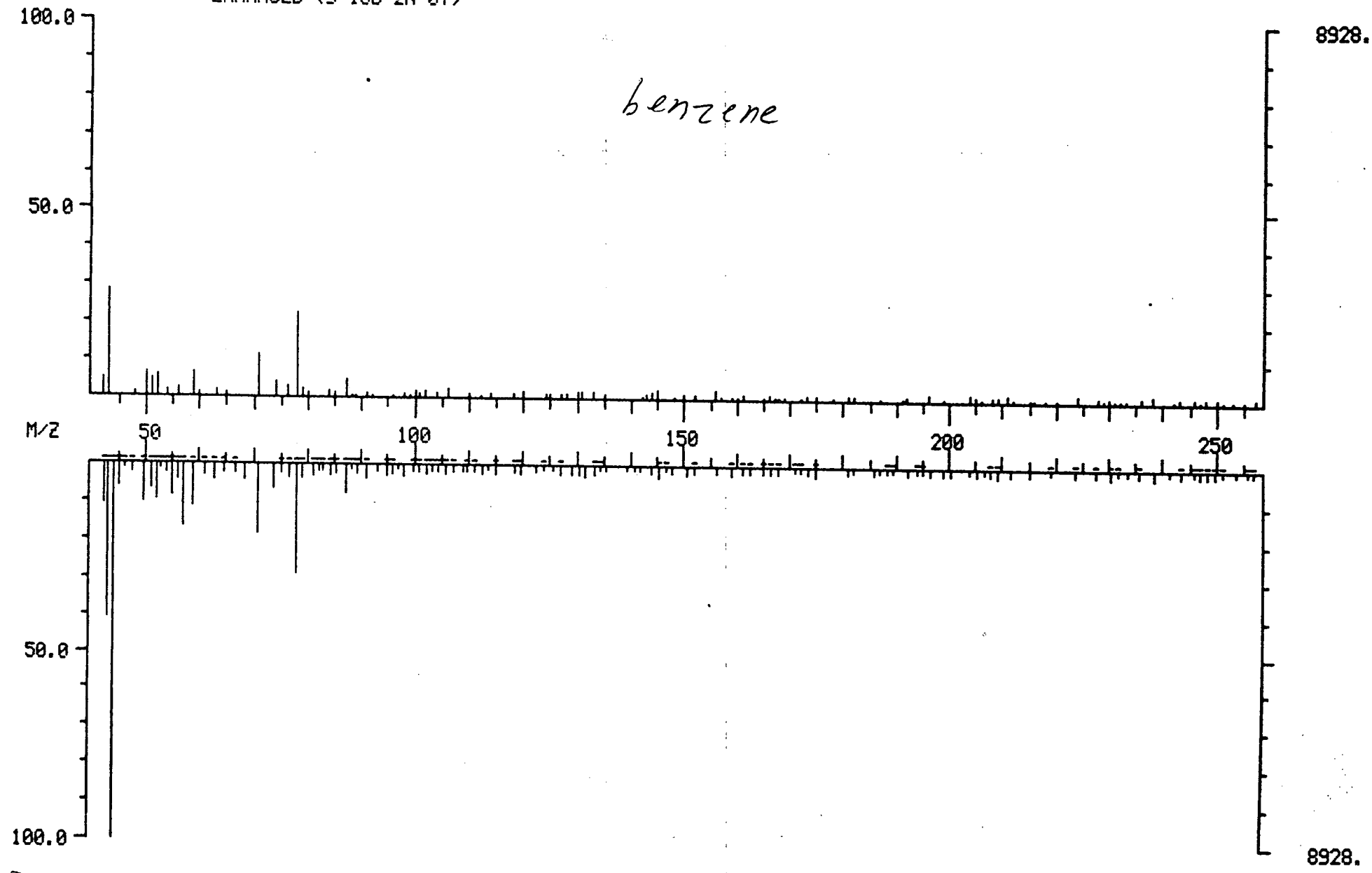
BASE M/Z: 49
RIC: 515071.



DUAL MASS SPECTRUM
08/28/87 18:02:00 + 17:06
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 #342
CALI: PU7439 #2

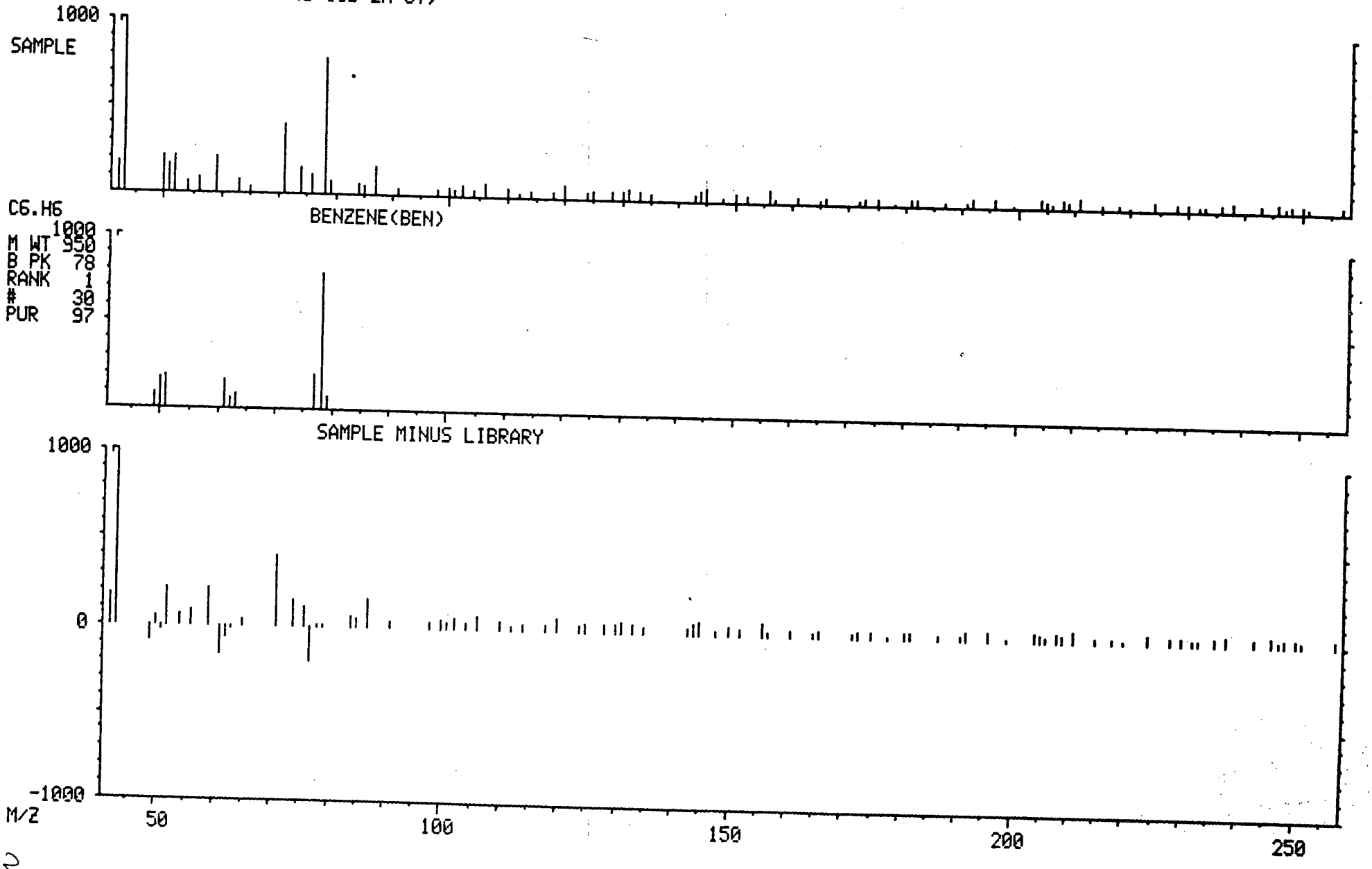
BASE M/Z: 43/ 44
RIC: 18143./ 43839.



LIBRARY SEARCH
08/28/87 18:02:00 + 17:06
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 # 342
CALI: PU7439 # 2

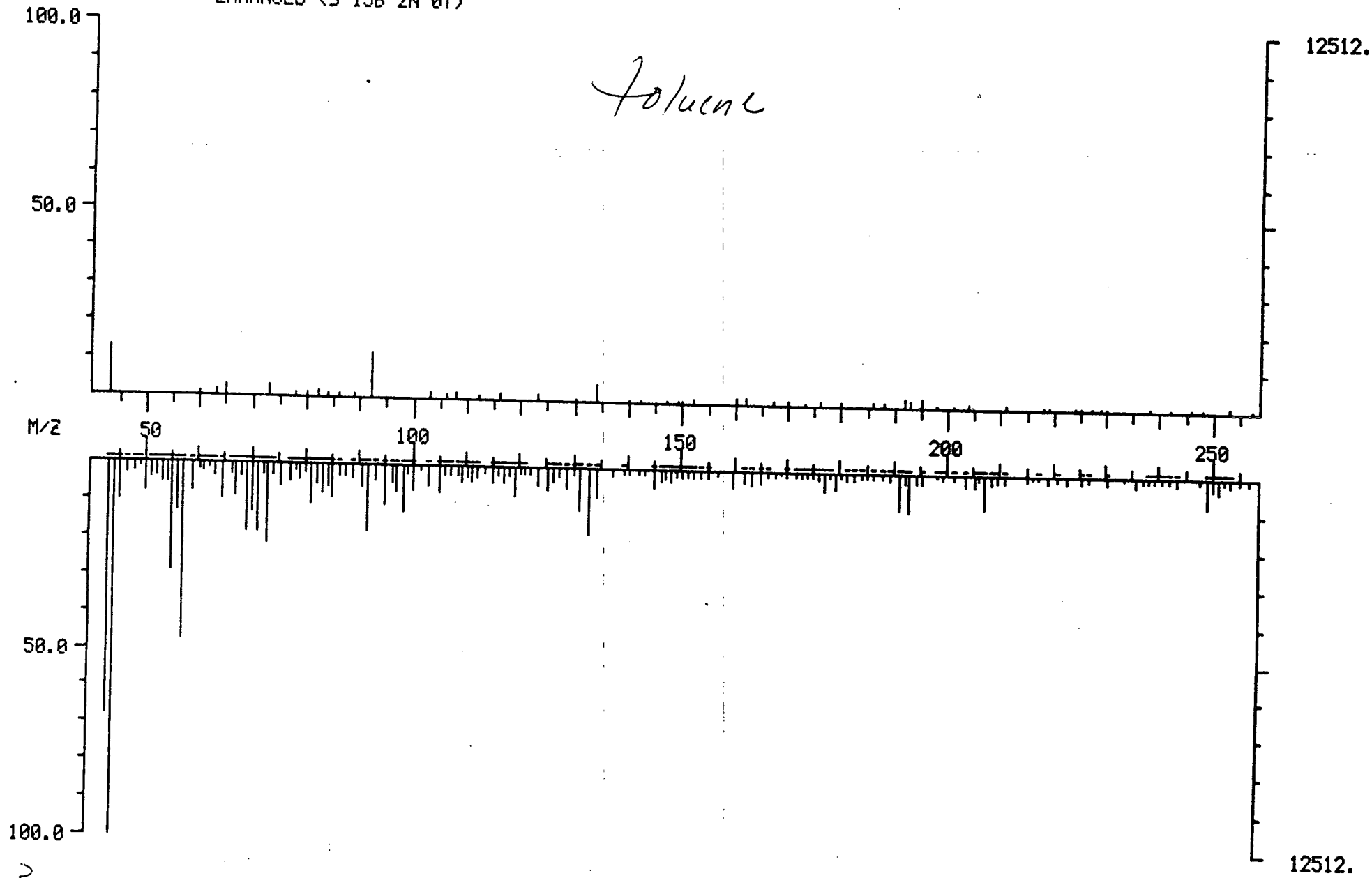
BASE M/Z: 43
RIC: 16831.



DUAL MASS SPECTRUM
08/28/87 18:02:00 + 25:24
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 #508
CALI: PU7439 #2

BASE M/Z: 43/ 44
RIC: 11327./ 106111.

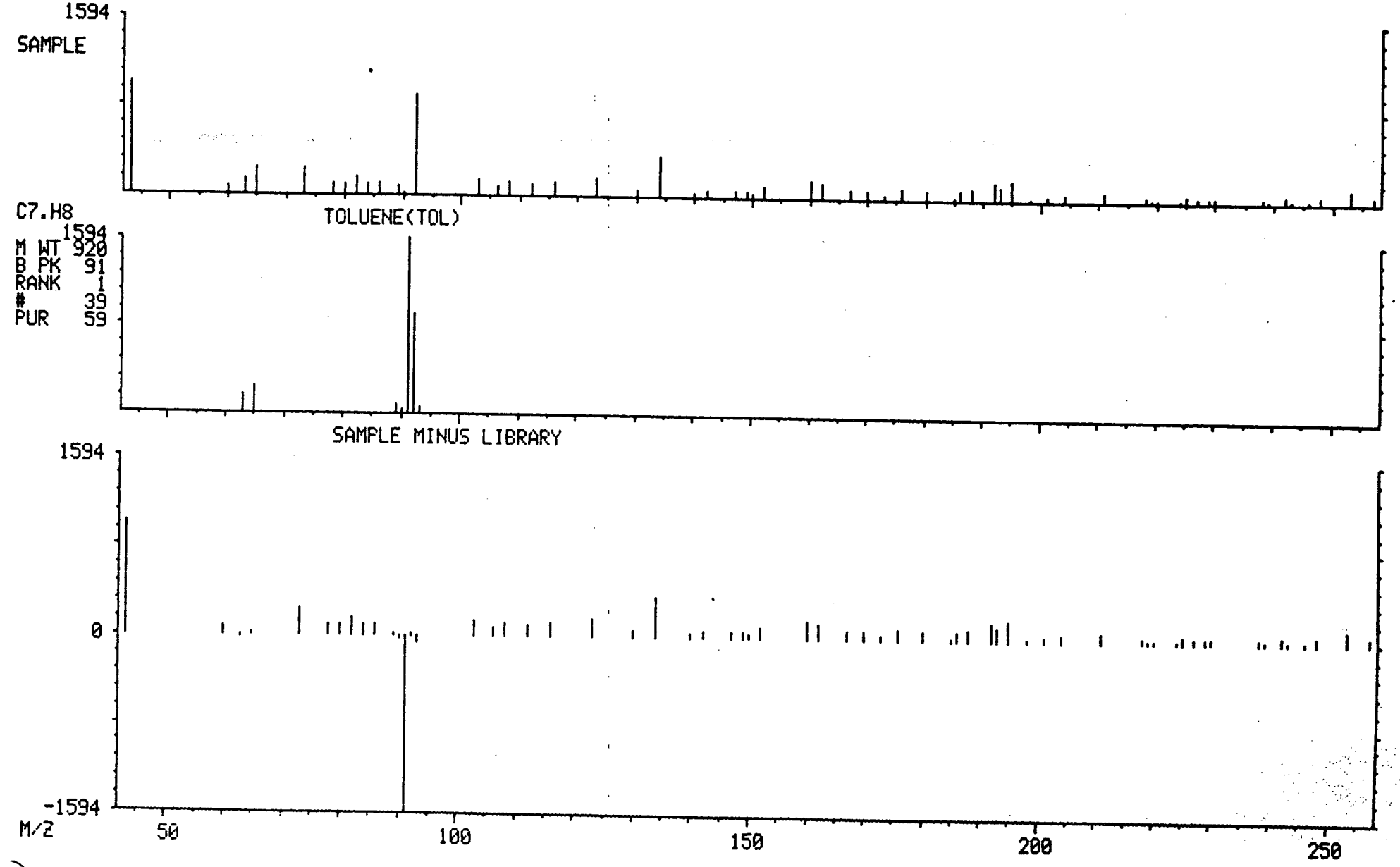


356

LIBRARY SEARCH
08/28/87 18:02:00 + 25:24
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 # 508
CALI: PU7439 # 2

BASE M/Z: 43
RIC: 11311.

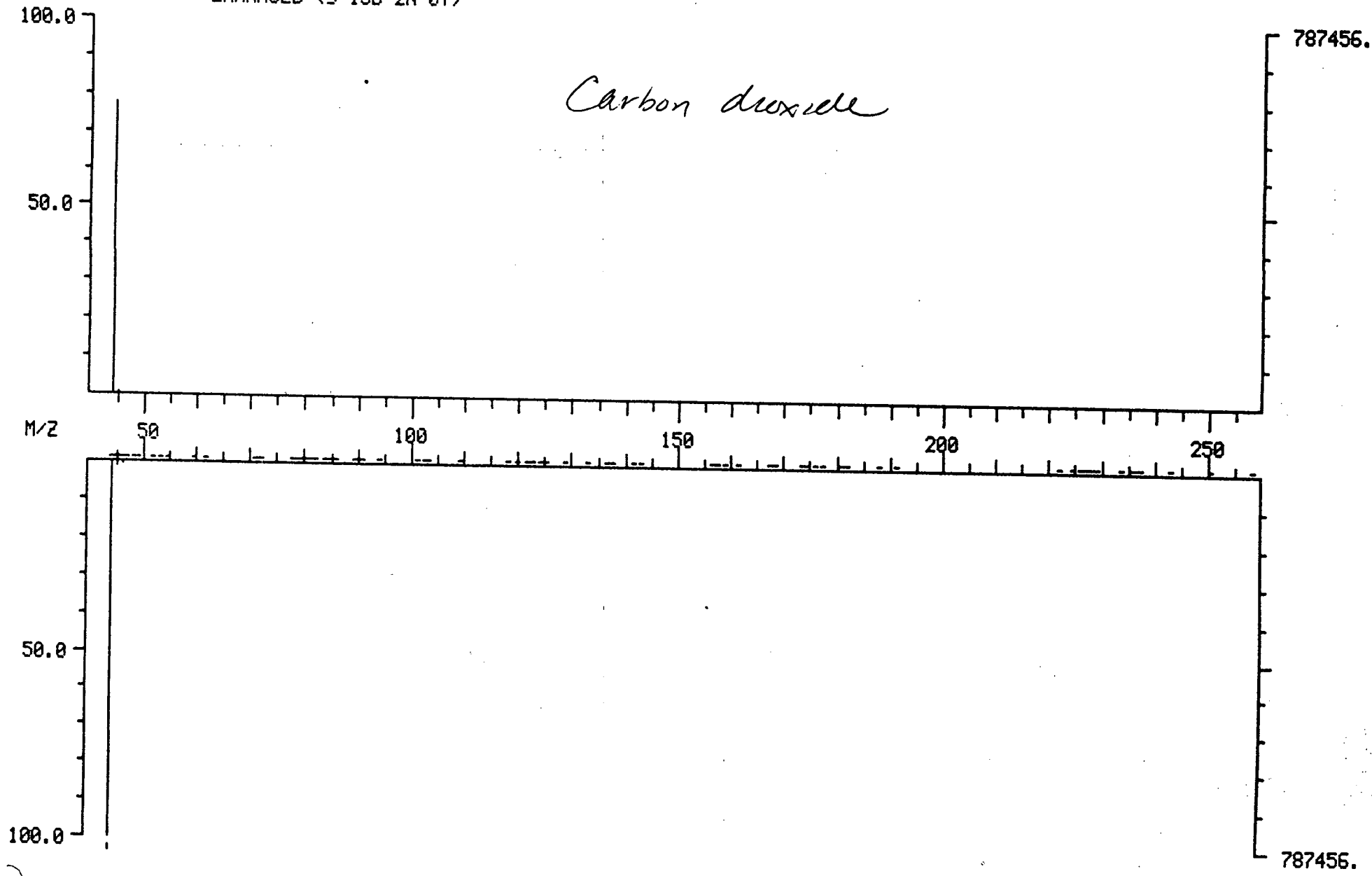


38

DUAL MASS SPECTRUM
08/28/87 18:02:00 + 0:45
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 #15
CALI: PU7439 #2

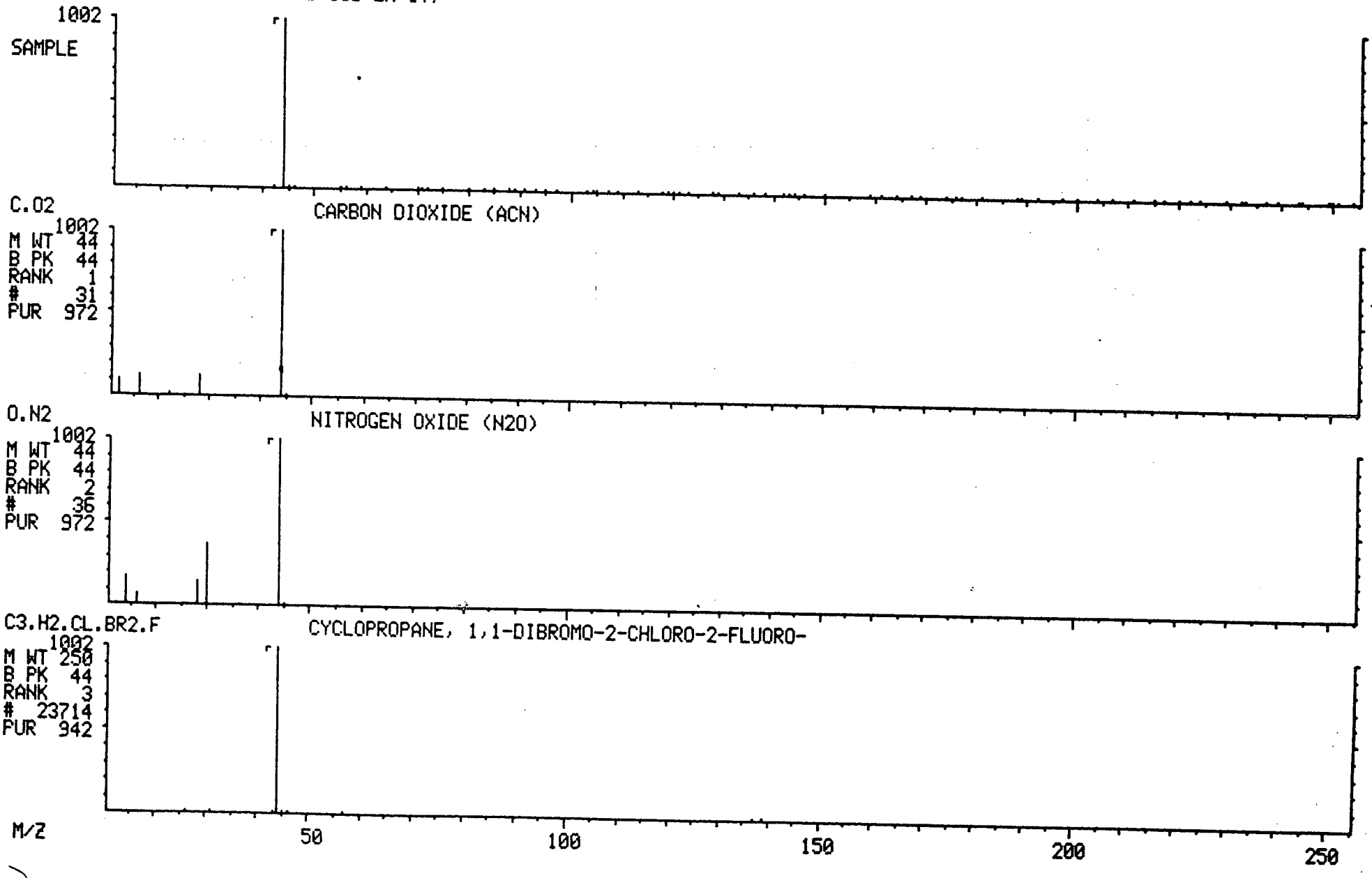
BASE M/Z: 44/ 44
RIC: 616447./ 803839.



LIBRARY SEARCH
08/28/87 18:02:00 + 0:45
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 # 15
CALI: PU7439 # 2

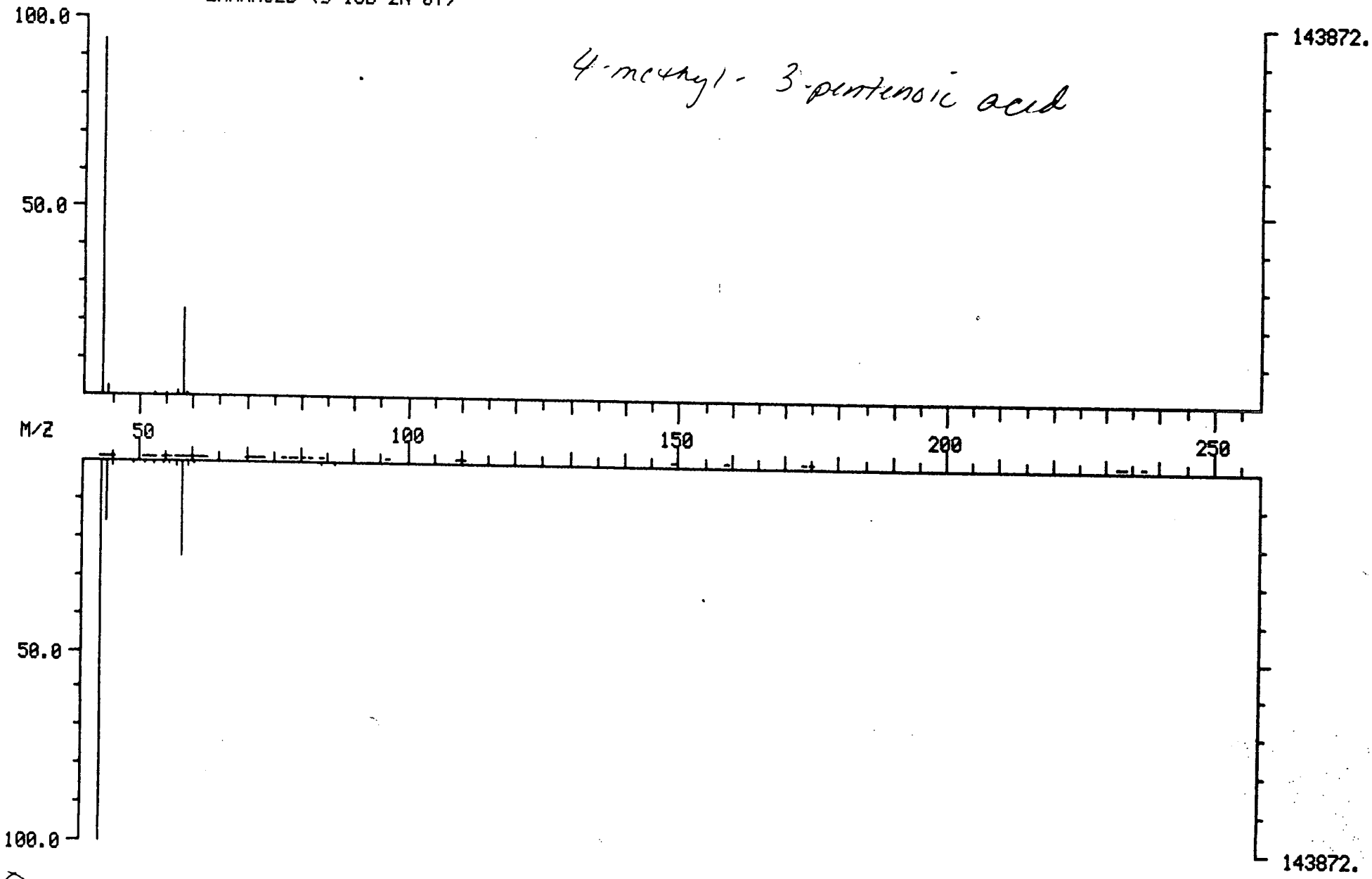
BASE M/Z: 44
RIC: 616447.



DUAL MASS SPECTRUM
08/28/87 18:02:00 + 5:12
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 #104
CALI: PU7439 #2

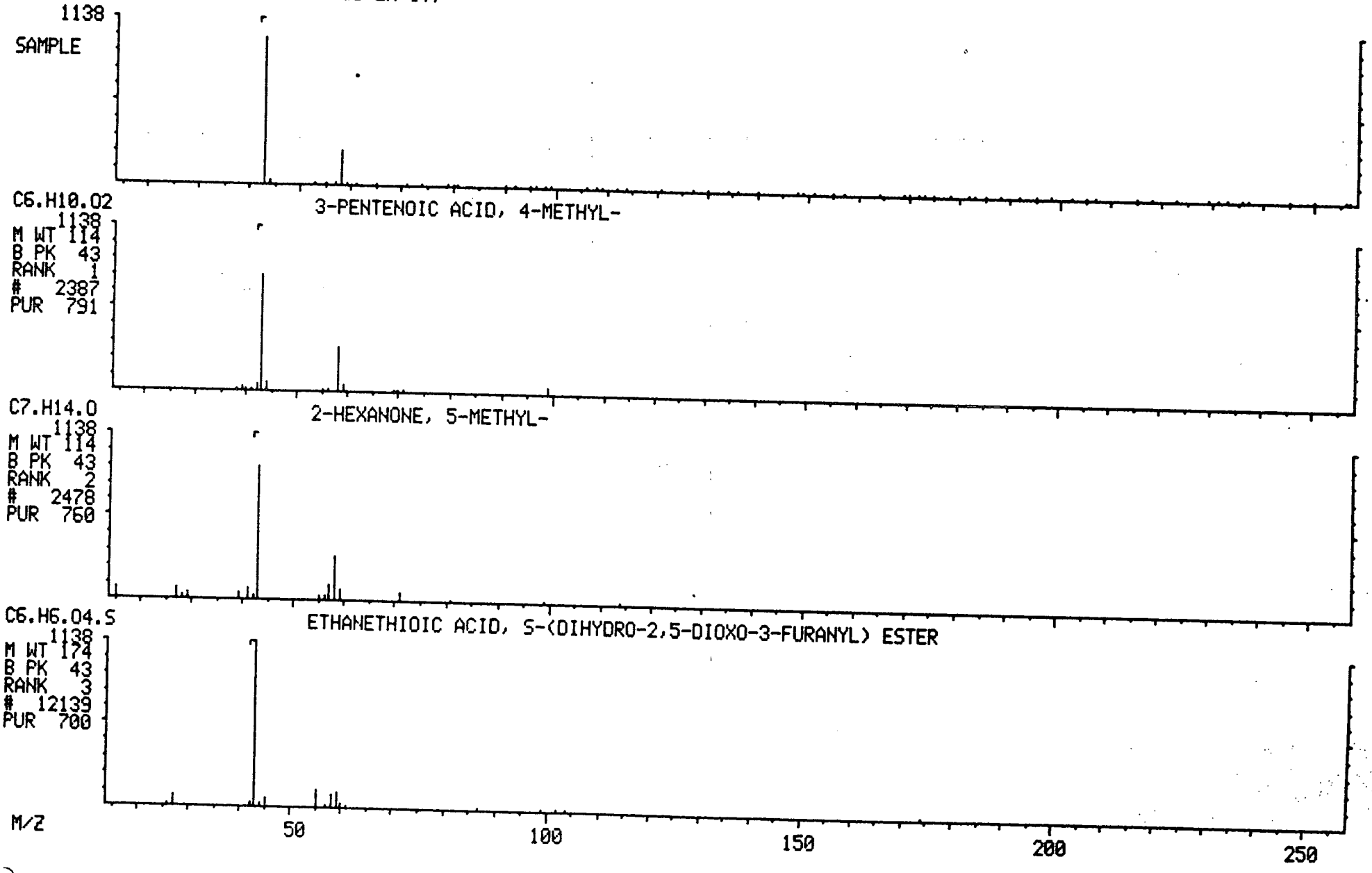
BASE M/Z: 43/ 43
RIC: 176383./ 220671.



LIBRARY SEARCH
08/28/87 18:02:00 + 5:12
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 # 104
CALI: PU7439 # 2

BASE M/Z: 43
RIC: 176383.

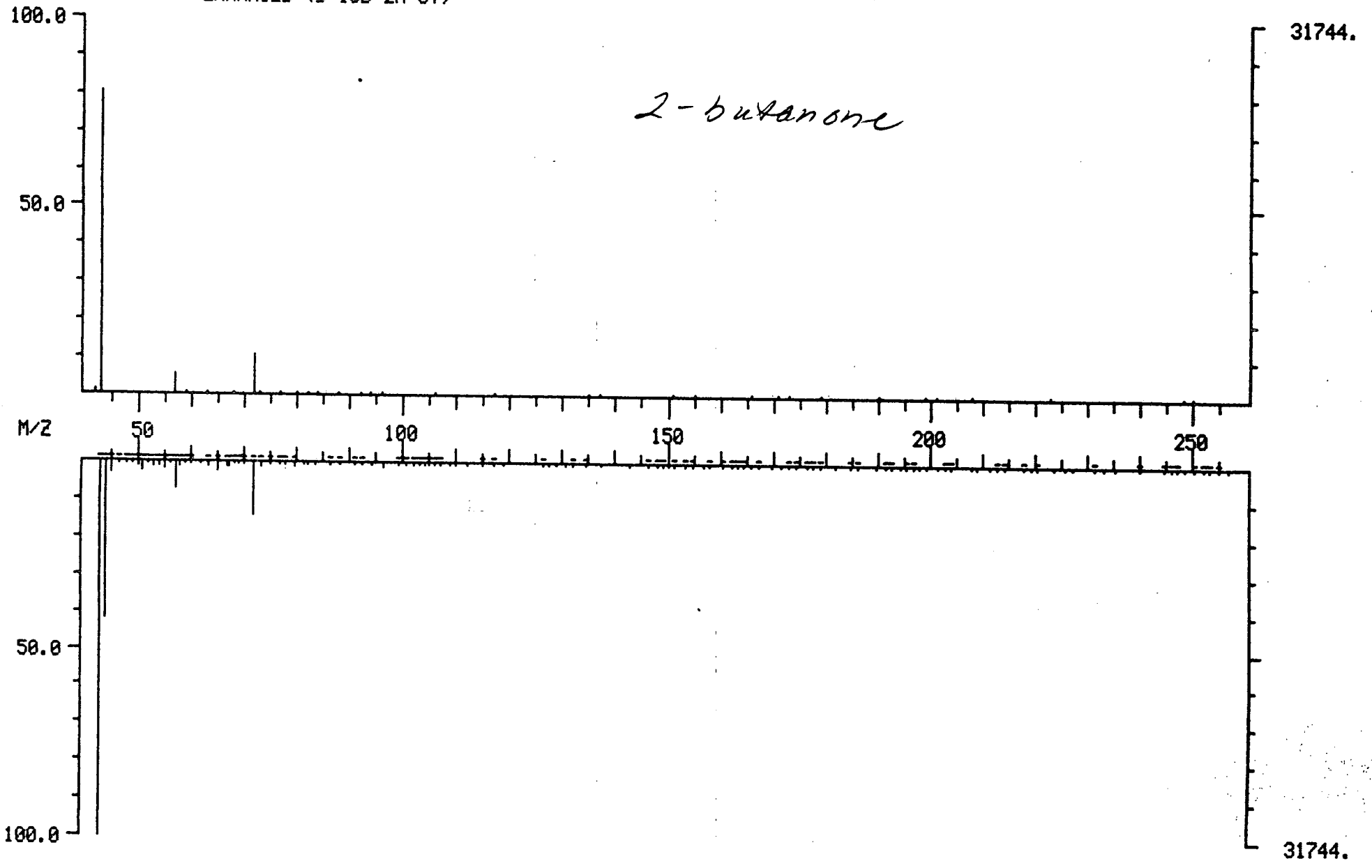


3-9

DUAL MASS SPECTRUM
08/28/87 18:02:00 + 11:12
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 #224
CALI: PU7439 #2

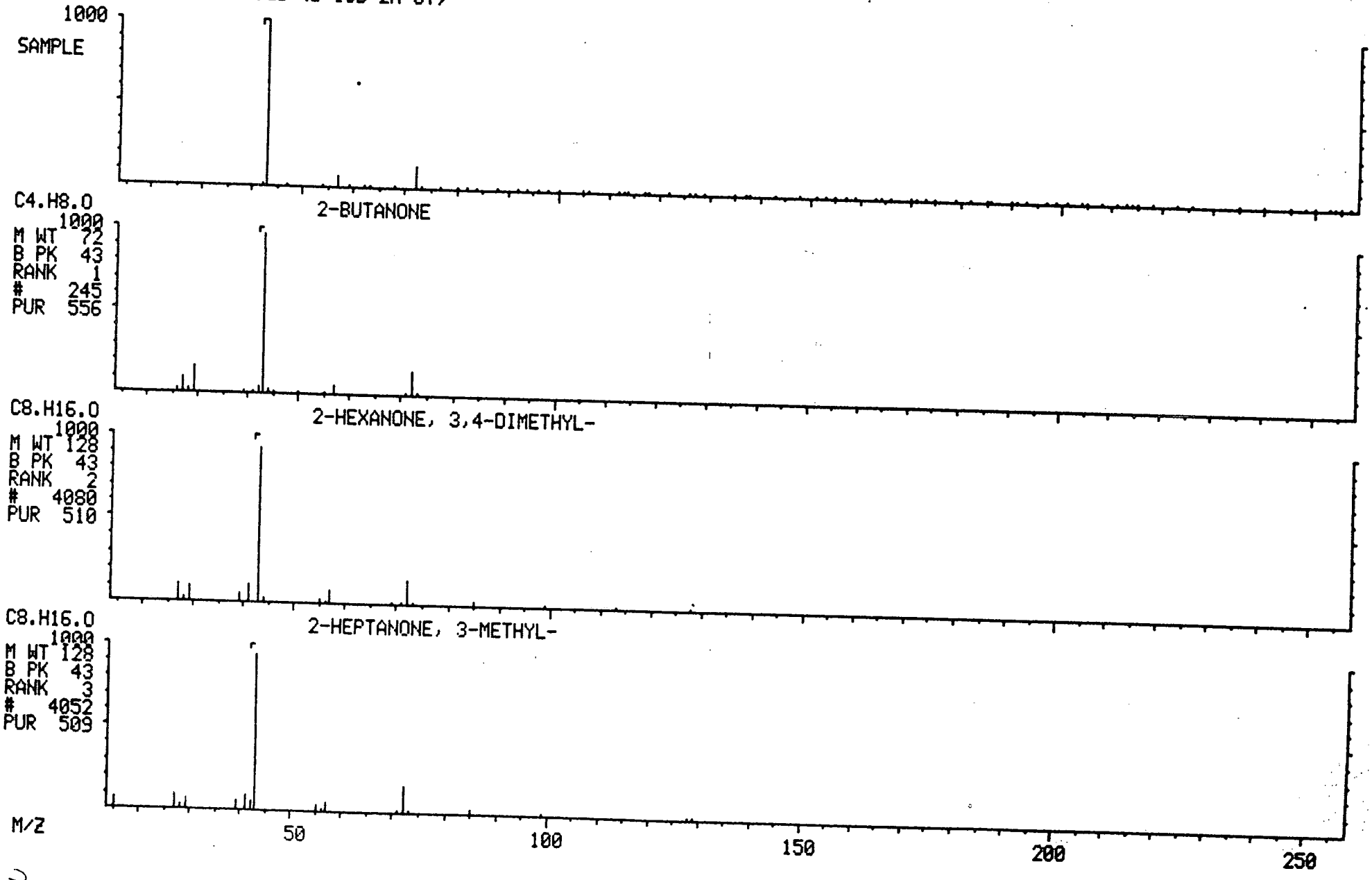
BASE M/Z: 43/ 43
RIC: 39103./ 74879.



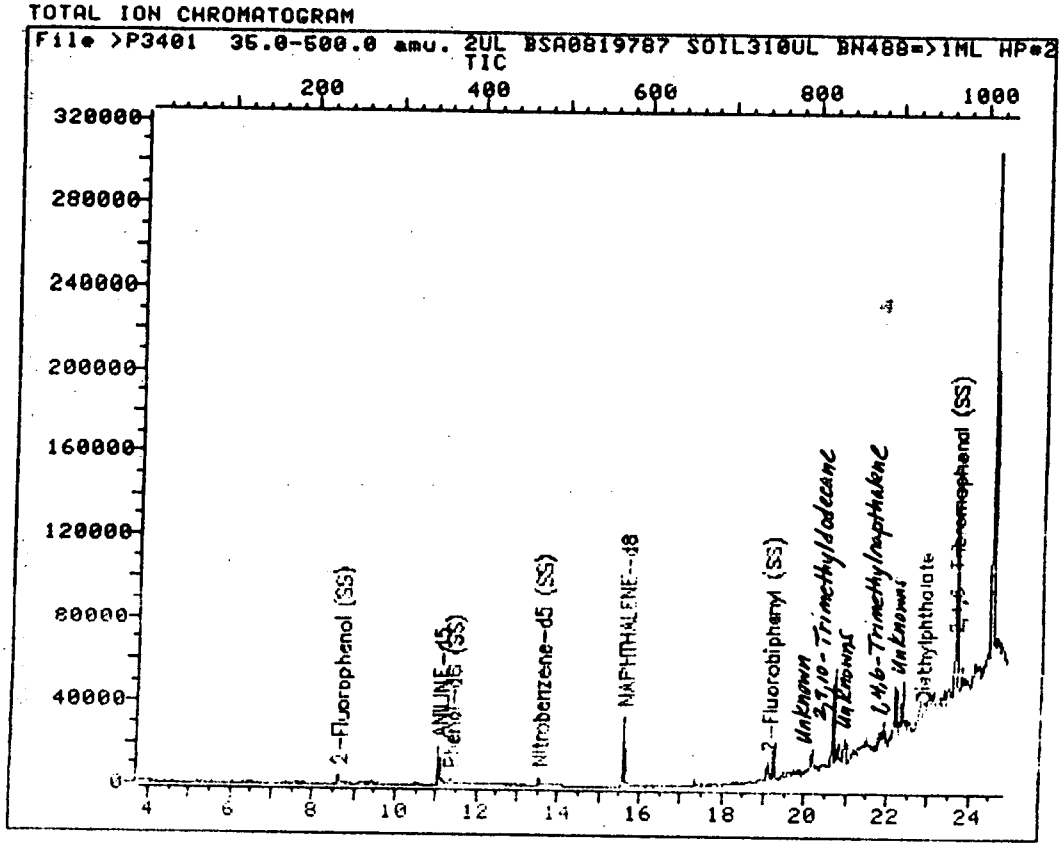
LIBRARY SEARCH
08/28/87 18:02:00 + 11:12
SAMPLE: 100UL #BSA 0819787(0.9725GMS=>5MLS MEOH)=>5MLS H20
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7439 # 224
CALI: PU7439 # 2

BASE M/Z: 43
RIC: 38399.



TOTAL ION CHROMATOGRAM



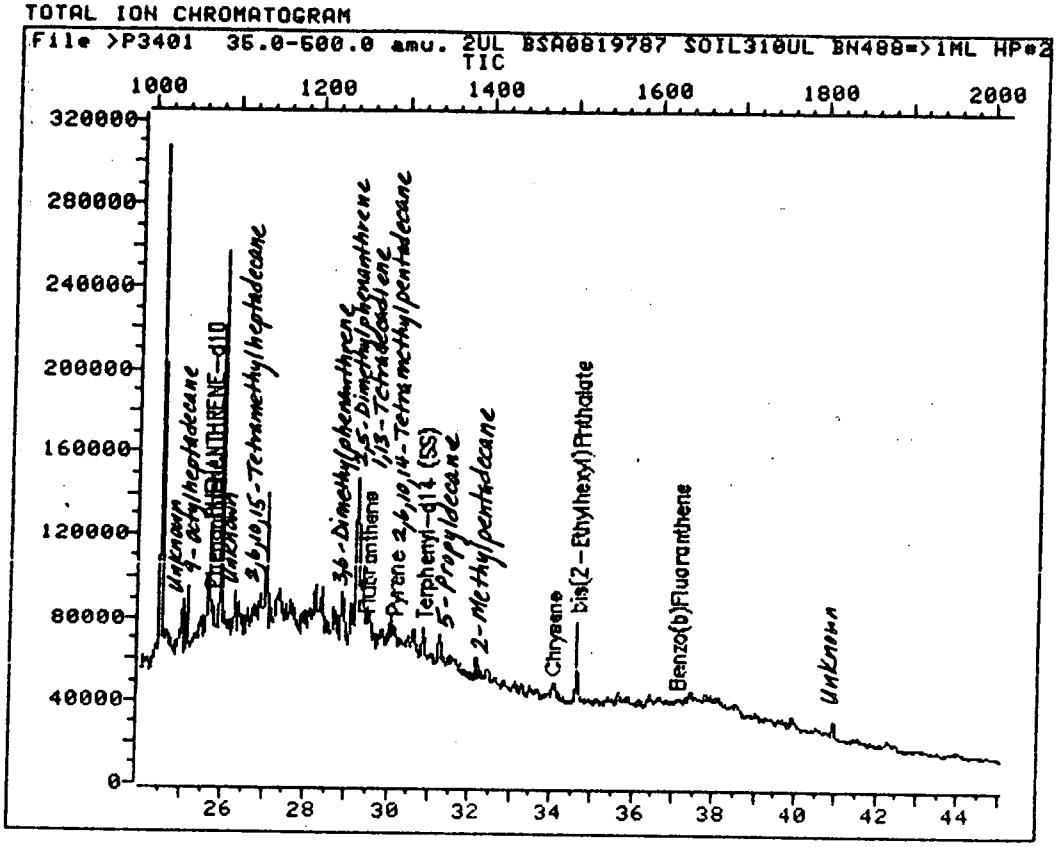
Data File: >P3401::B1 Quant Output File: ^P3401::QT
Name: 2UL BSA0819787 SOIL3
Misc: 10UL BN488=>1ML HP#2 579877 BNA [5ML] BTL#56

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

Operator ID: GLENN
Quant Time: 870910 21:14
Injected at: 870910 20:27

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >P3401::B1 Quant Output File: ^P3401::QT
Name: 2UL BSA0819787 SOIL3
Misc: 10UL BN488=>1ML HP#2 579877 BNA [5ML] BTL#56

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

Operator ID: GLENN
Quant Time: 870910 21:14
Injected at: 870910 20:27

TIC page 2 of 2

QUANT REPORT

Operator ID: GLENN
Output File: ^P3401::QT
Data File: >P3401::B1
Name: 2UL BSA0819787 SOIL3
Misc: 10UL BN488=>1ML HP#2 579877 BNA [5ML]

Quant Rev: 6
Quant Time: 870910 21:14
Injected at: 870910 20:27
Dilution Factor: 1.00000

BTL#56

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.05	357	21856	42.85	ug/mL	89
3)	2-Fluorophenol (SS)	8.62	238	3926	10.87	ug/mL	58
6)	Phenol-d6 (SS)	11.35	372	5786	10.55	ug/mL	89
14)	*NAPHTHALENE-d8	15.59	580	47638	41.04	ug/mL	59
15)	Nitrobenzene-d5 (SS)	13.53	479	3944	5.72	ug/mL	78
29)	2-Fluorobiphenyl (SS)	19.09	752	7111	10.02	ug/mL	99
37)	Diethylphthalate	22.82	934	1224	1.02	ug/mL	92
40)	2,4,6-Tribromophenol (SS)	23.60	972	4012	19.57	ug/mL	85
41)	*PHENANTHRENE-d10	25.67	1073	58330	41.02	ug/mL	74
47)	Phenanthrene	25.73	1076	7289	4.15	ug/mL	50
50)	Fluoranthene	29.48	1258	4331	2.92	ug/mL	81
51)	Terphenyl-d14 (SS)	30.86	1325	14684	15.75	ug/mL	41
53)	Pyrene	30.13	1290	6026	4.04	ug/mL	61
57)	bis(2-Ethylhexyl)Phthalate	34.62	1508	17672	12.98	ug/mL	85
58)	Chrysene	34.04	1480	2312	2.04	ug/mL	98
60)	Benzo(b)Fluoranthene	37.11	1629	2276	1.80	ug/mL	94

* Compound is ISTD

MS data file header from : >P3401

Sample: 2UL BSA0819787 SOIL3 Operator: GLENN MS 9/10/87 20:27
Misc : 10UL BN488=>1ML HP#2 579877 BNA [5ML] BTL#56
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

>P3401 2UL BSA0819787 SOIL310UL BN488=>1ML HP#2 579877 BNA [5ML]
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 6162. Max Peaks: 20 Bunching: 1
Onslope: 0.00 Results File IP3401 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	20.18	795	805	808	12093	177605	65349	9.48	2.436
2	20.69	825	830	832	46633	221562	125910	18.26	4.694
3	20.79	832	835	840	9787	162689	37081	5.38	1.383
4	20.97	840	844	847	12226	156428	49323	7.15	1.839
5	21.91	887	890	894	11665	227571	43120	6.25	1.608
6	22.16	900	902	906	24055	274895	76022	11.03	2.834
7	22.37	909	912	914	22944	248230	61846	8.97	2.306
8	24.50	1012	1016	1018	243606	1157993	689503	100.00	25.708
9	25.03	1040	1042	1044	26370	374645	67962	9.86	2.534
10	25.16	1045	1048	1050	31268	480948	87000	12.62	3.244
11	25.96	1084	1087	1089	182110	958382	500930	72.65	18.677
12	26.39	1106	1108	1110	15249	403867	44905	6.51	1.674
13	27.07	1138	1141	1144	65634	748428	199154	28.88	7.425
14	28.88	1226	1229	1236	24951	986075	153296	22.23	5.716
15	29.11	1238	1240	1243	15015	502024	53231	7.72	1.985
16	29.23	1243	1246	1249	71236	847844	282586	40.98	10.536
17	30.05	1284	1286	1287	14796	276662	27121	3.93	1.011
18	31.25	1342	1344	1348	12630	483136	42783	6.20	1.595
19	32.15	1386	1388	1391	10192	346753	33364	4.84	1.244
20	40.95	1814	1816	1827	9445	396761	41613	6.04	1.552

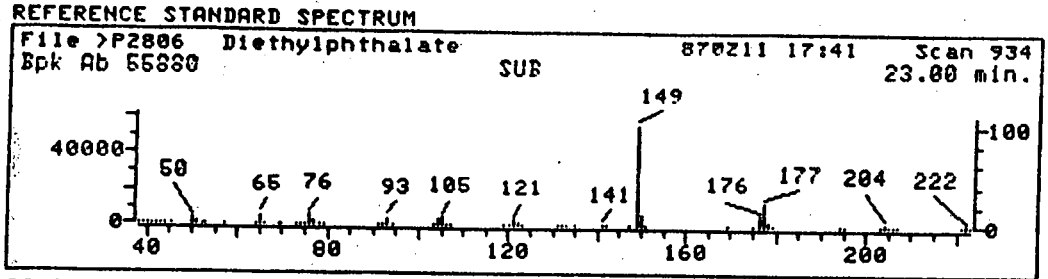
Sum of corrected areas: 2682099.

Summary of Unknowns PBM Library Search and Quantitation

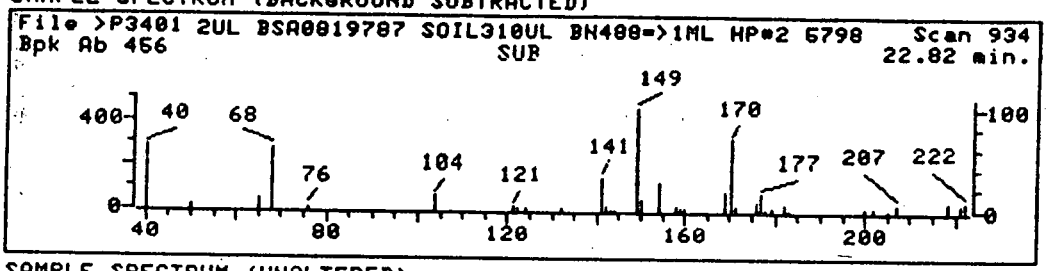
Standard	Concentration	Area	Retention Time	Unknown Window
1	42.8	61622.	11.05	3.79 - 13.32
2	41.0	98499.	15.59	13.32 - 20.63
3	41.0	120835.	25.67	20.63 - 45.07

Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00

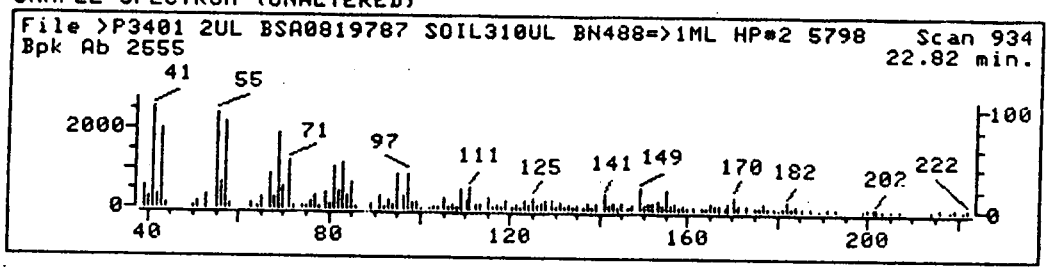
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



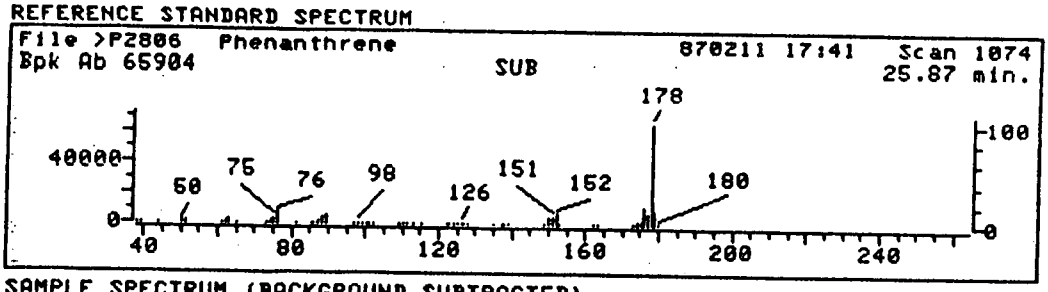
SAMPLE SPECTRUM (UNALTERED)



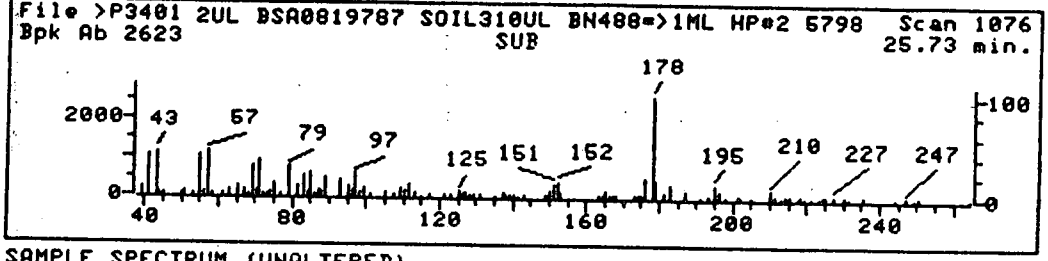
Data File: >P3401::B1 Quant Output File: ^P3401::QT
Name: 2UL BSA0819787 SOIL3
Misc: 10UL BN488=>1ML HP#2 579877 BNA [5ML] BTL#56
Quant Time: 870910 21:14 Quant ID File: ID_625::ME
Injected at: 870910 20:27 Last Calibration: 870910 15:35

Compound No: 37
Compound Name: Diethylphthalate
Scan Number: 934
Retention Time: 22.82 min.
Quant Ion: 149.0
Area: 1224
Concentration: 1.02 ug/mL
q-value: 92

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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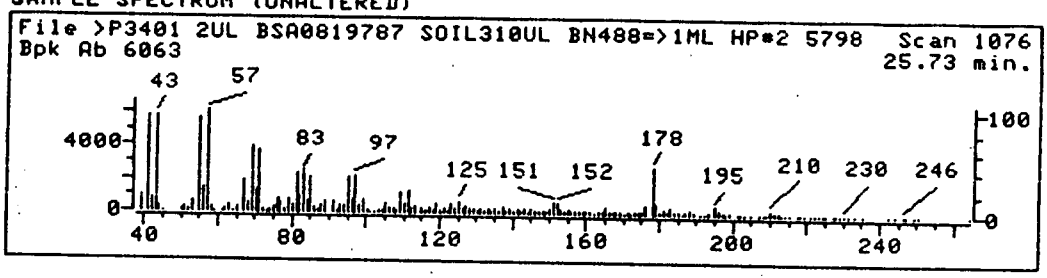
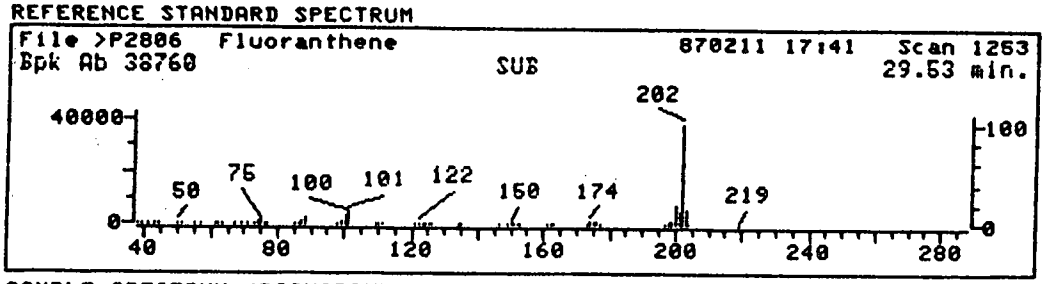


Data File: >P3401::B1 Quant Output File: ^P3401::QT
Name: 2UL BSA0819787 SOIL3
Misc: 10UL BN488=>1ML HP#2 579877 BNA [5ML] BTL#56
Quant Time: 870910 21:14 Quant ID File: ID_625::ME
Injected at: 870910 20:27 Last Calibration: 870910 15:35

Compound No: 47
Compound Name: Phenanthrene
Scan Number: 1076
Retention Time: 25.73 min.
Quant Ion: 178.0
Area: 7289
Concentration: 4.15 ug/mL
q-value: 50

REFERENCE STANDARD SPECTRUM



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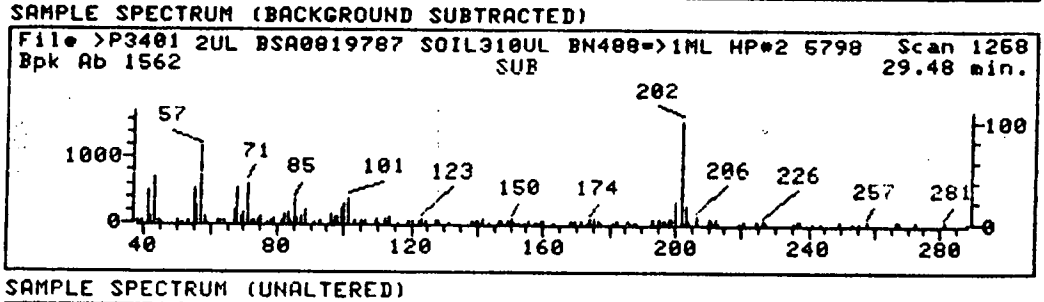

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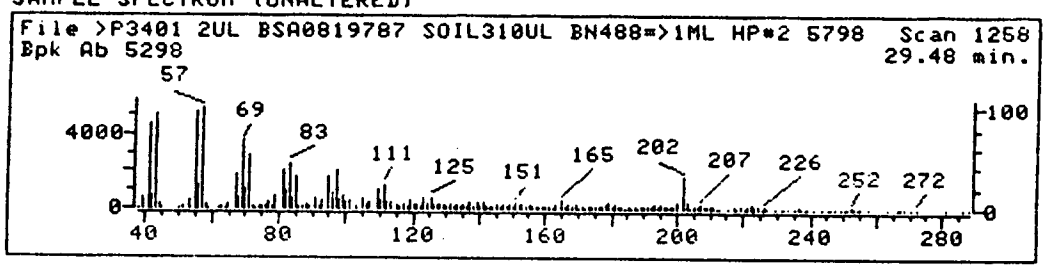
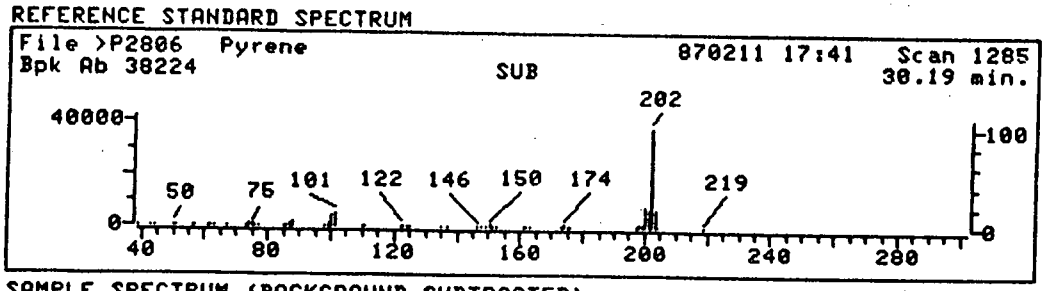


Data File: >P3401::B1 Quant Output File: ^P3401::QT
Name: 2UL BSA0819787 SOIL3
Misc: 10UL BN488=>1ML HP#2 579877 BNA [5ML] BTL#56
Quant Time: 870910 21:14 Quant ID File: ID_625::ME
Injected at: 870910 20:27 Last Calibration: 870910 15:35

Compound No: 50
Compound Name: Fluoranthene
Scan Number: 1258
Retention Time: 29.48 min.
Quant Ion: 202.0
Area: 4331
Concentration: 2.92 ug/mL
q-value: 81

REFERENCE STANDARD SPECTRUM



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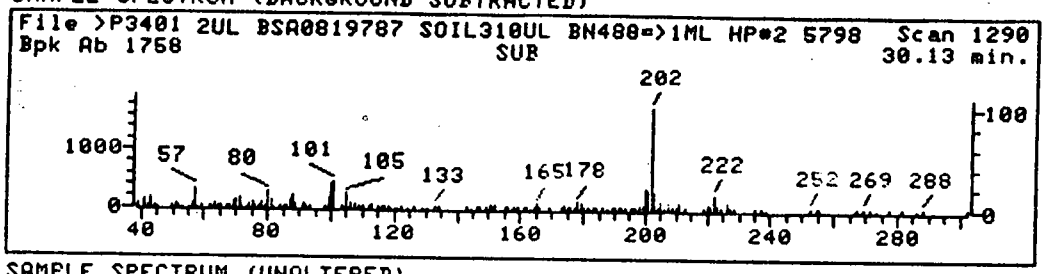

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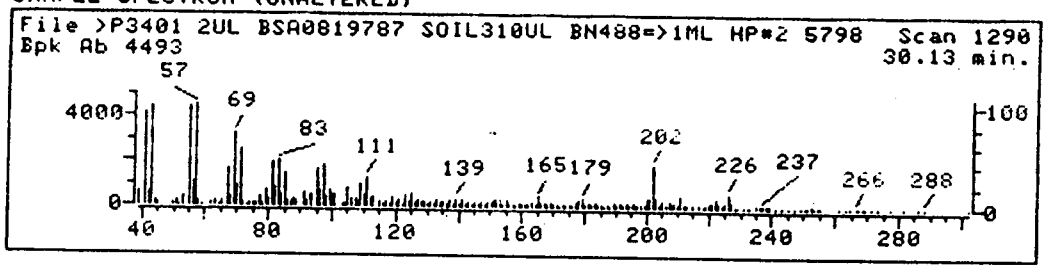
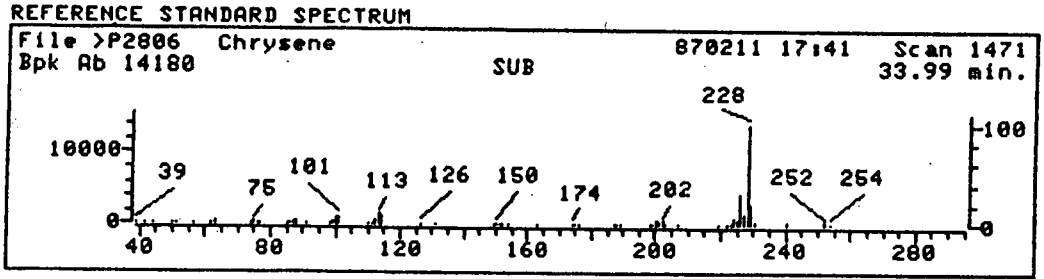


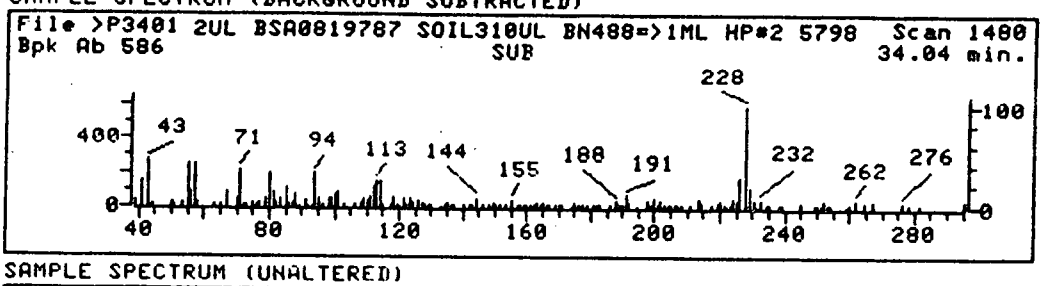
Data File: >P3401::B1 Quant Output File: ^P3401::QT
Name: 2UL BSA0819787 SOIL3
Misc: 10UL BN488=>1ML HP#2 579877 BNA [5ML] BTL#56
Quant Time: 870910 21:14 Quant ID File: ID_625::ME
Injected at: 870910 20:27 Last Calibration: 870910 15:35

Compound No: 53
Compound Name: Pyrene
Scan Number: 1290
Retention Time: 30.13 min.
Quant Ion: 202.0
Area: 6026
Concentration: 4.04 ug/mL
q-value: 61

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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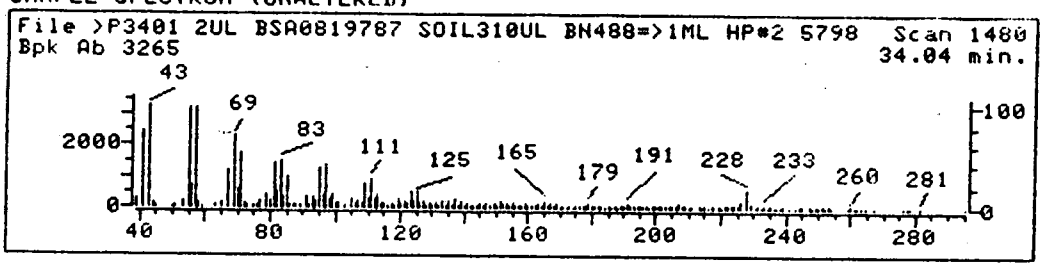
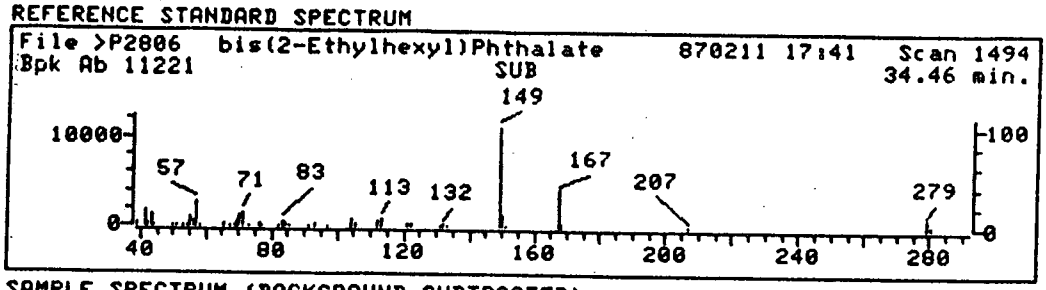


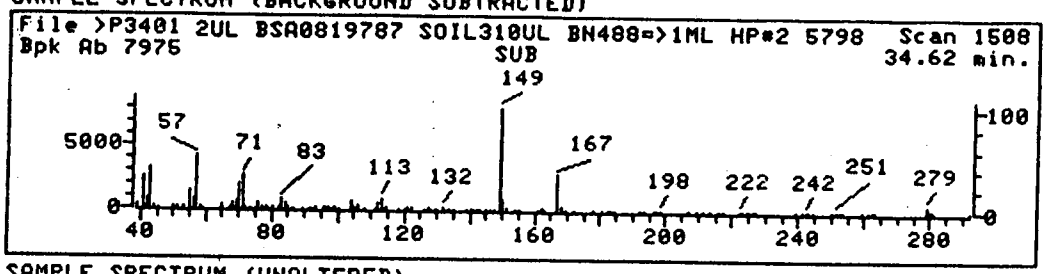
Data File: >P3401::B1 Quant Output File: ^P3401::QT
Name: 2UL BSA0819787 SOIL3
Misc: 10UL BN488=>1ML HP#2 579877 BNA [5ML] BTL#56
Quant Time: 870910 21:14 Quant ID File: ID_625::ME
Injected at: 870910 20:27 Last Calibration: 870910 15:35

Compound No: 58
Compound Name: Chrysene
Scan Number: 1480
Retention Time: 34.04 min.
Quant Ion: 228.0
Area: 2312
Concentration: 2.041 ug/mL
q-value: 98

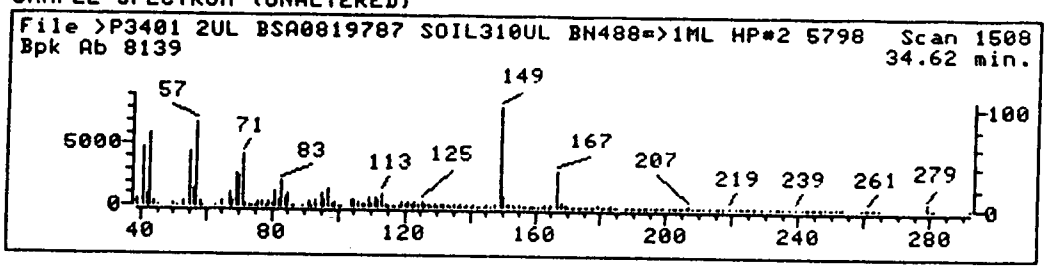
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



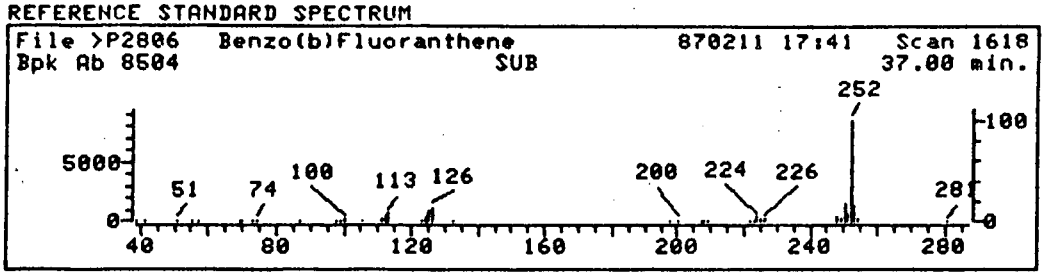
SAMPLE SPECTRUM (UNALTERED)



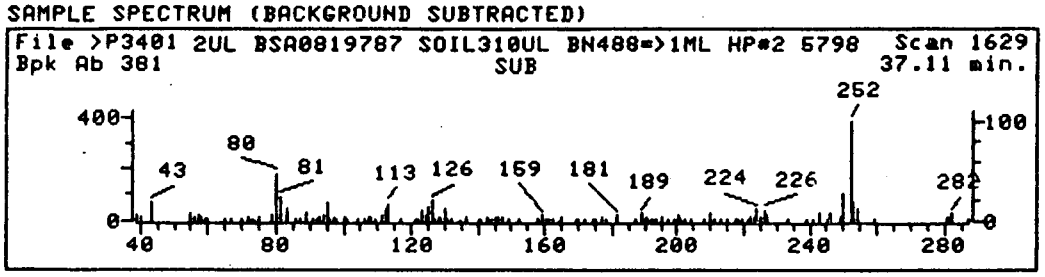
Data File: >P3401::B1 Quant Output File: ^P3401::QT
Name: 2UL BSA0819787 SOIL3
Misc: 10UL BN488=>1ML HP#2 579877 BNA [5ML] BTL#56
Quant Time: 870910 21:14 Quant ID File: ID_625::ME
Injected at: 870910 20:27 Last Calibration: 870910 15:35

Compound No: 57
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1508
Retention Time: 34.62 min.
Quant Ion: 149.0
Area: 17672
Concentration: 12.98 ug/mL
q-value: 85

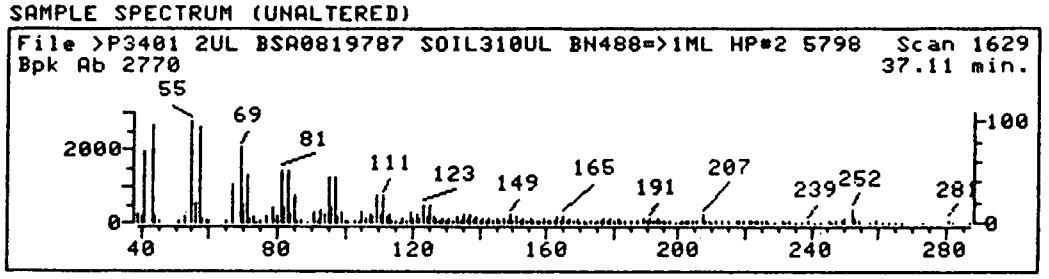
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

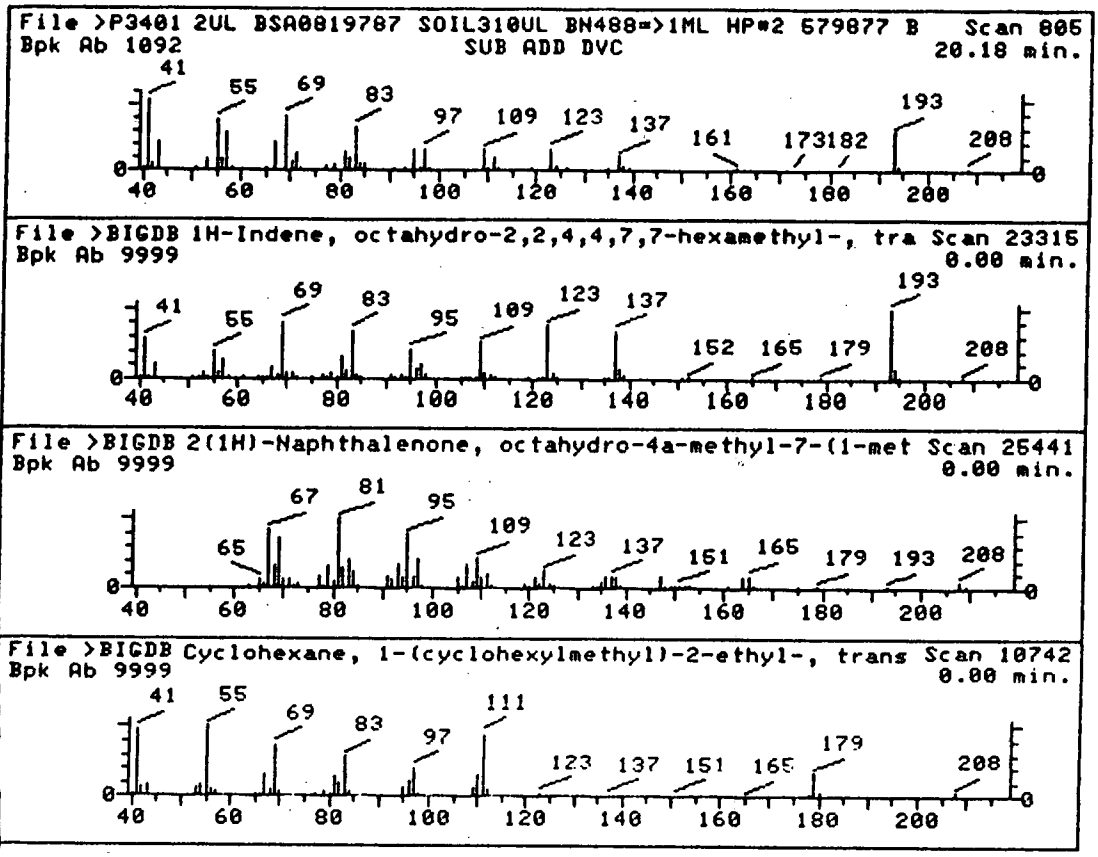


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3401::B1 Quant Output File: ^P3401::QT
Name: 2UL BSA0819787 SOIL3
Misc: 10UL BN488=>1ML HP#2 579877 BNA [5ML] BTL#56
Quant Time: 870910 21:14 Quant ID File: ID_625::ME
Injected at: 870910 20:27 Last Calibration: 870910 15:35

Compound No: 60
Compound Name: Benzo(b)Fluoranthene
Scan Number: 1629
Retention Time: 37.11 min.
Quant Ion: 252.0
Area: 2276
Concentration: 1.80 ug/mL
q-value: 94

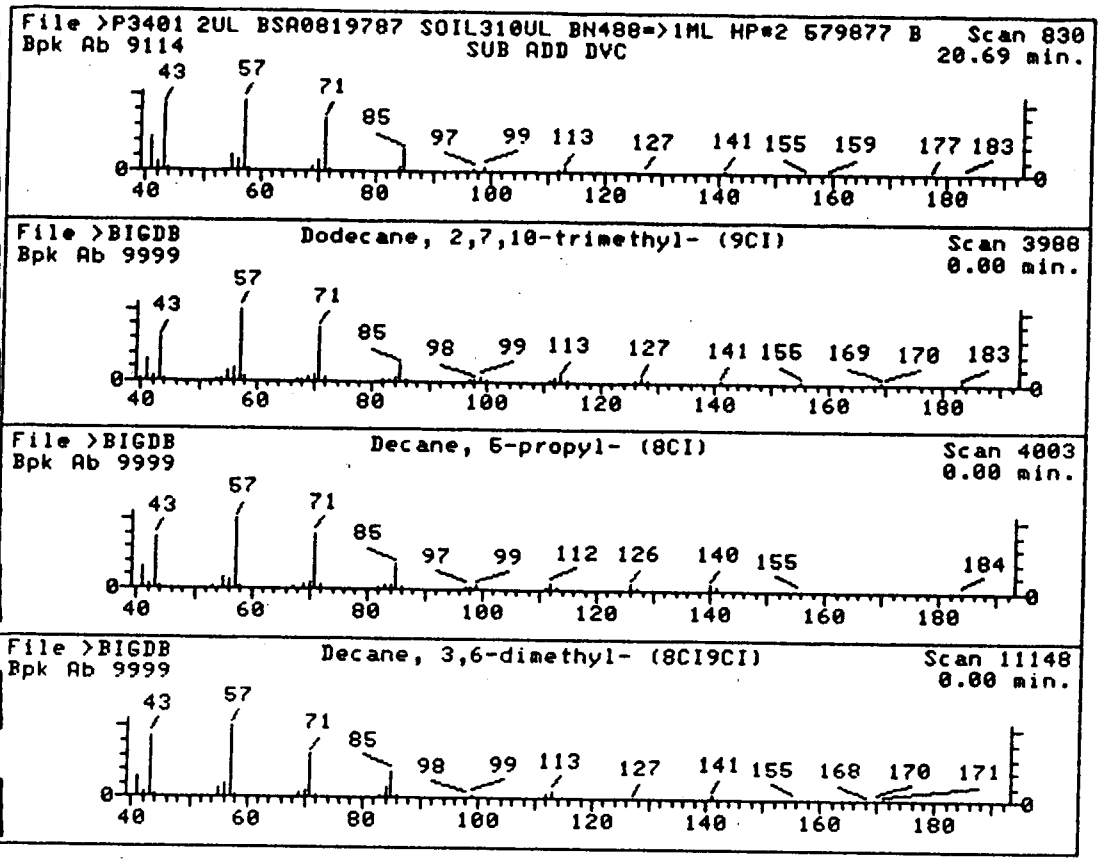


. Unknown #,1
Area = 65349.00 Tentative Concentration is 27.00

1.	1H-Indene, octahydro-2,2,4,4,7,7-hexamethyl-, trans- (9CI)	208	C15H28
2.	2(1H)-Naphthalenone, octahydro-4a-methyl-7-(1-methyl ethyl)-, (4a.alpha.,7.beta.,8a.beta.)- (9CI)	208	C14H24O
3.	Cyclohexane, 1-(cyclohexylmethyl)-2-ethyl-, trans- (9CI)	208	C15H28
4.	Cyclopentane, 1-methyl-2-(2-propenyl)-, trans- (9CI)	124	C9H16

Sample file: >P3401 Spectrum #: 805
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	28*	54832836	23315	"BIGDB	35	89	0	0	31	54	8	31



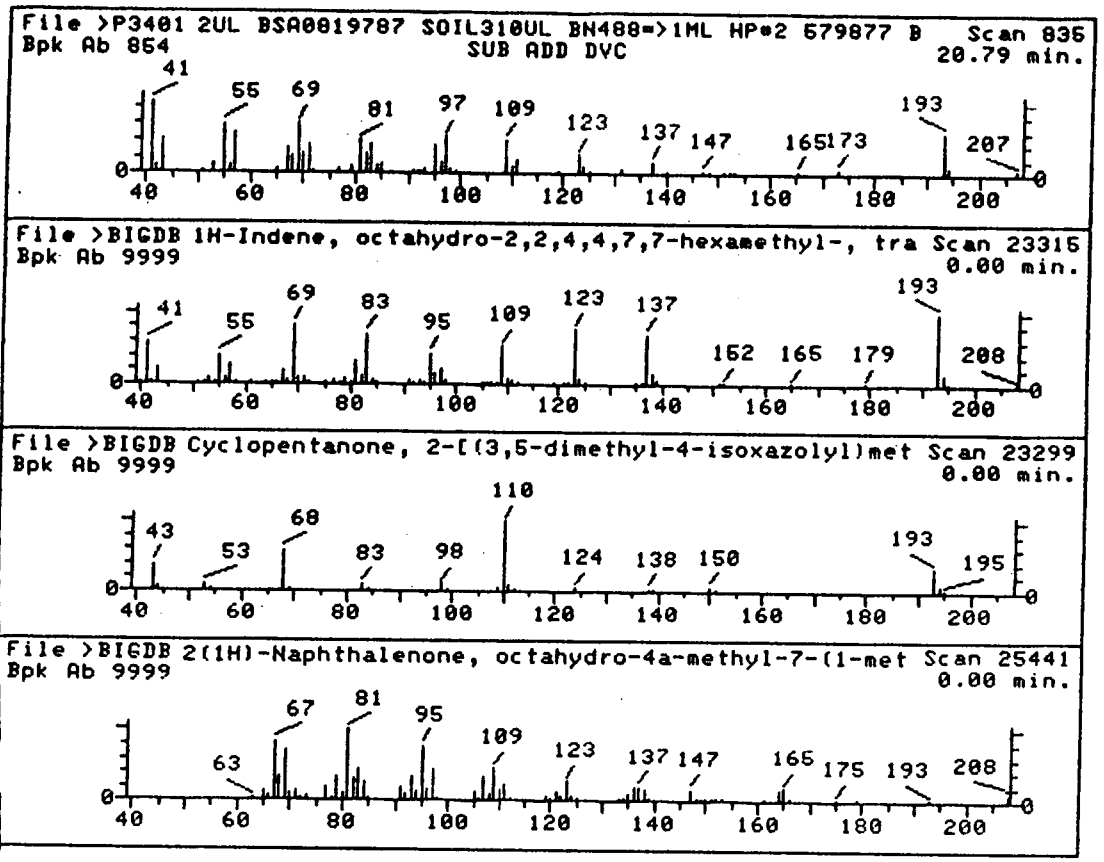
Unknown #,2
Area = 125910.0 Tentative Concentration is 43.00

1.	Dodecane, 2,7,10-trimethyl- (9CI)	212 C15H32
2.	Decane, 5-propyl- (8CI)	184 C13H28
3.	Decane, 3,6-dimethyl- (8CI9CI)	170 C12H26
4.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
5.	Octane, 3-ethyl- (8CI9CI)	142 C10H22
6.	Iron, tricarbonyl[N-(phenyl-2-pyridinylmethylene)benzenamine-N,N']- (9CI)	398 C21H14FeN2O3
7.	Hexacosane (8CI9CI)	366 C26H54

Sample file: >P3401 Spectrum #: 830
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	86	74645980	3988	"BIGDB	86	23	2	0	96	3	60	32
2.	78	17312628	4003	"BIGDB	67	44	2	0	86	2	55	14
3.	78	17312537	11148	"BIGDB	58	40	2	0	83	5	55	17
4.	78	54833486	6161	"BIGDB	75	58	2	0	71	1	55	19
5.	75*	5881174	3951	"BIGDB	62	31	1	0	80	16	35	60
6.	70	24264117	6140	"BIGDB	68	38	2	0	78	2	55	14

406

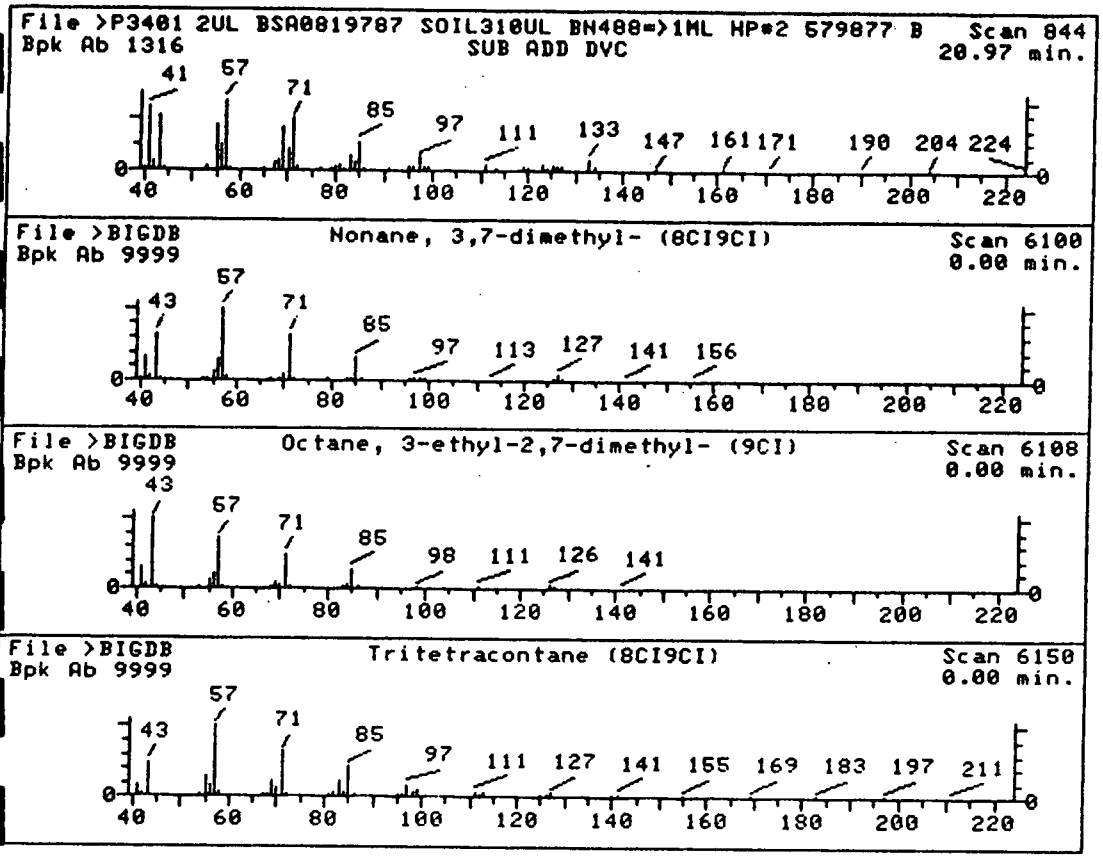


Unknown #,3
Area = 37081.00 Tentative Concentration is 13.00

1.	1H-Indene, octahydro-2,2,4,4,7,7-hexamethyl-, trans- (9CI)	208	C15H28
2.	Cyclopentanone, 2-[(3,5-dimethyl-4-isoxazolyl)methyl]- (8CI)	193	C11H15NO2
3.	2(1H)-Naphthalenone, octahydro-4a-methyl-7-(1-methylethyl)-, (4a.alpha.,7.beta.,8a.beta.)- (9CI)	208	C14H24O
4.	Tricyclo[3.3.1:13,7]decane-2,6-dione, 4-(methylamino)- (9CI)	193	C11H15NO2

Sample file: >P3401 Spectrum #: 835
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	20*	54832836	23315	"BIGDB	31	111	3	0	57	51	5	13

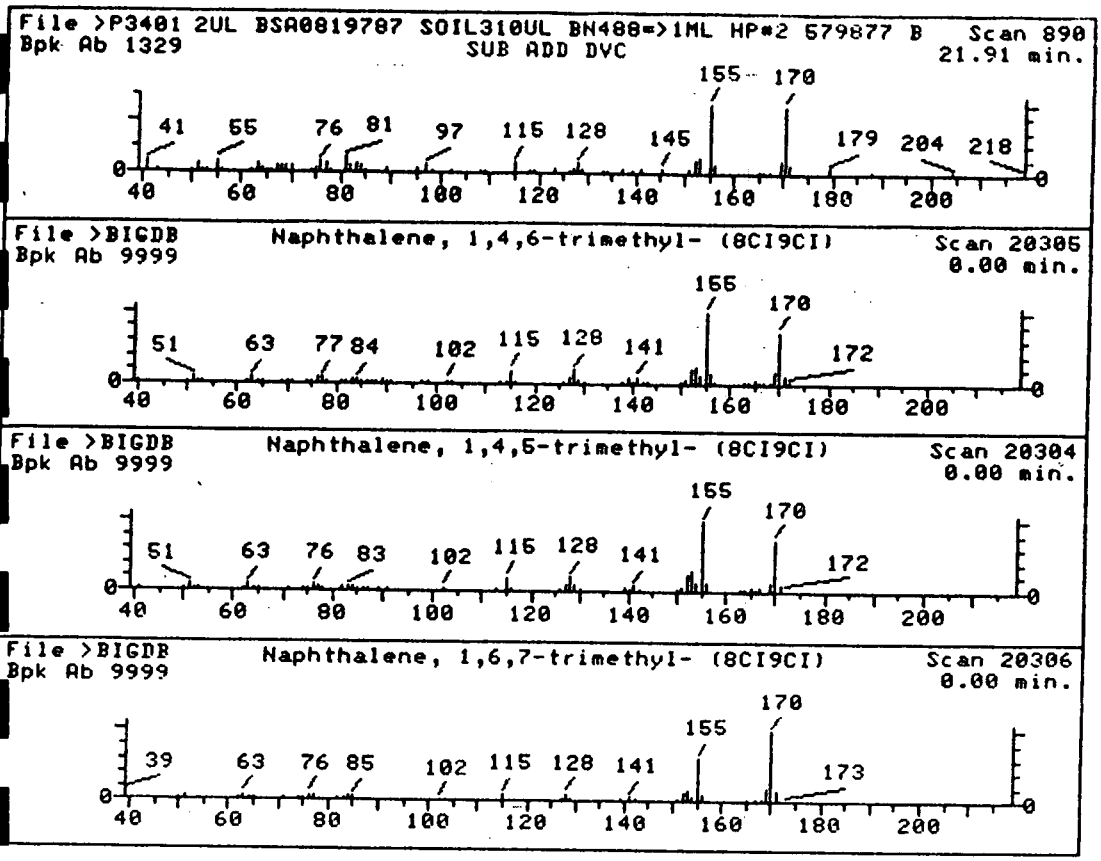


. Unknown #,4
Area = 49323.00 Tentative Concentration is 17.00

1.	Nonane, 3,7-dimethyl- (8CI9CI)	156 C11H24
2.	Octane, 3-ethyl-2,7-dimethyl- (9CI)	170 C12H26
3.	Tritetracontane (8CI9CI)	604 C43H88
4.	Hexatriacontane (8CI9CI)	506 C36H74
5.	Undecane, 2,8-dimethyl- (8CI)	184 C13H28
6.	1-Hexene, 3,4,5-trimethyl- (9CI)	126 C9H18
7.	Hexane, 3,3-dimethyl- (8CI9CI)	114 C8H18

Sample file: >P3401 Spectrum #: 844
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	59	17302328	6100	"BIGDB	58	28	0	0	97	23	22	39

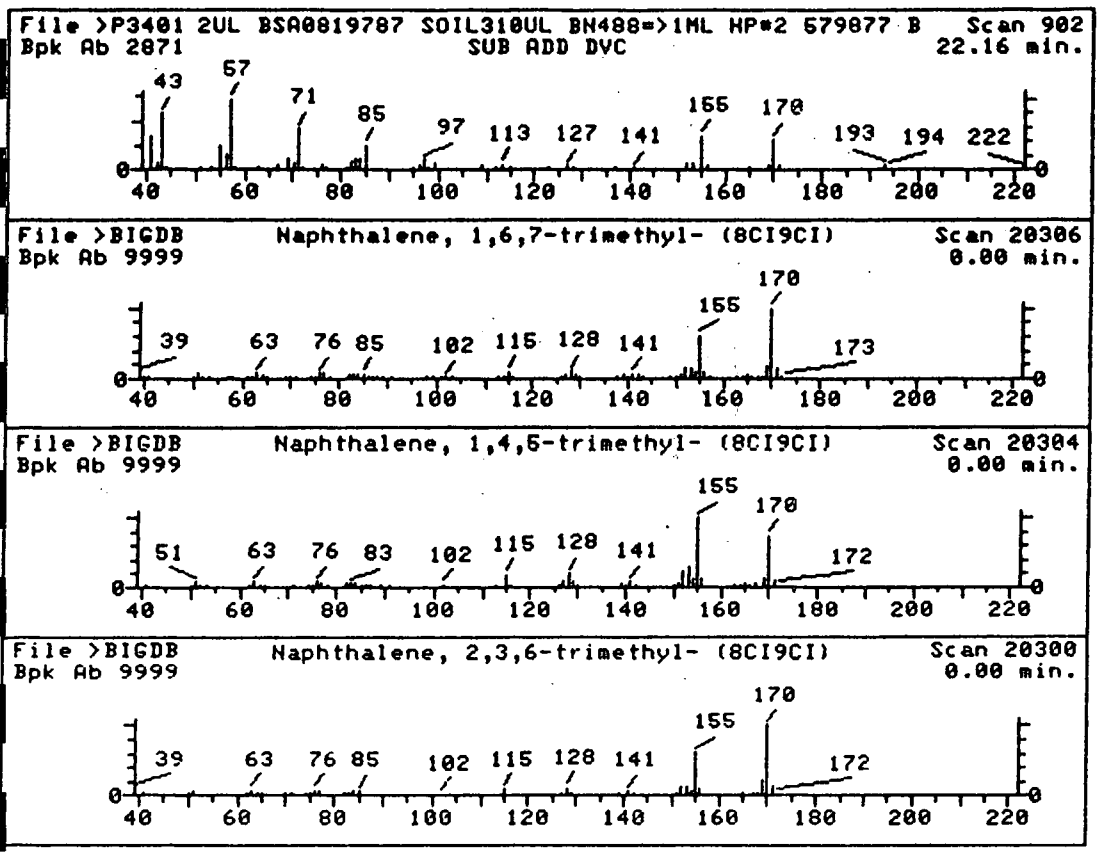


Unknown #,5
Area = 43120.00 Tentative Concentration is 15.00

1.	Naphthalene, 1,4,6-trimethyl- (8CI9CI)	170 C13H14
2.	Naphthalene, 1,4,5-trimethyl- (8CI9CI)	170 C13H14
3.	Naphthalene, 1,6,7-trimethyl- (8CI9CI)	170 C13H14
4.	Naphthalene, 2,3,6-trimethyl- (8CI9CI)	170 C13H14
5.	Ethanone, 1-(1-naphthalenyl)- (9CI)	170 C12H10O
6.	Naphthalene, 1,3,6-trimethyl- (8CI9CI)	170 C13H14
7.	Ethanone, 1-(2-naphthalenyl)- (9CI)	170 C12H10O

Sample file: >P3401 Spectrum #: 890
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	73*	2131422	20305	"BIGDB	84	35	2	0	83	24	32	65

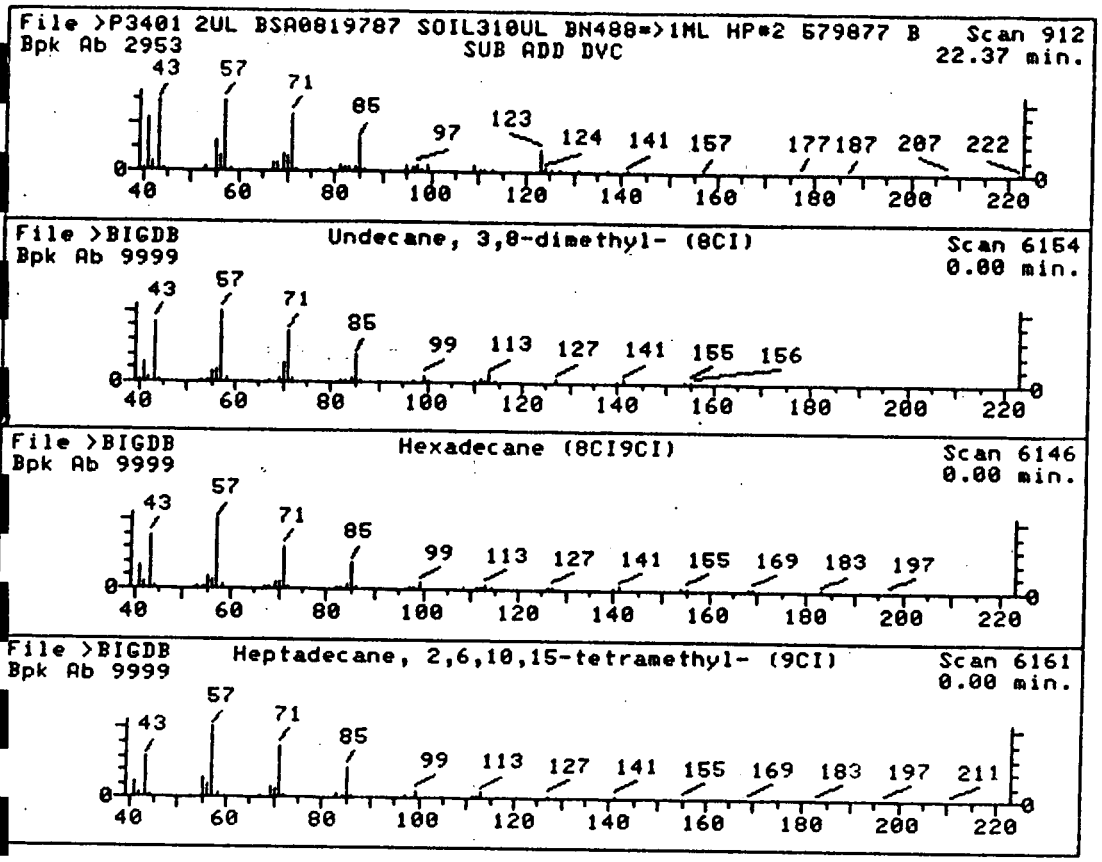


. Unknown #,6
Area = 76022.00 Tentative Concentration is 26.00

1.	Naphthalene, 1,6,7-trimethyl- (8CI9CI)	170 C13H14
2.	Naphthalene, 1,4,5-trimethyl- (8CI9CI)	170 C13H14
3.	Naphthalene, 2,3,6-trimethyl- (8CI9CI)	170 C13H14
4.	Dodecane (8CI9CI)	170 C12H26
5.	Undecane, 3,9-dimethyl- (8CI)	184 C13H28
6.	Undecane, 2,9-dimethyl- (8CI)	184 C13H28
7.	Hexatriacontane (8CI9CI)	506 C36H74

Sample file: >P3401 Spectrum #: 902
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_I
1.	23*	2245387	20306	"BIGDB	63	30	2	0	42	57	6	4



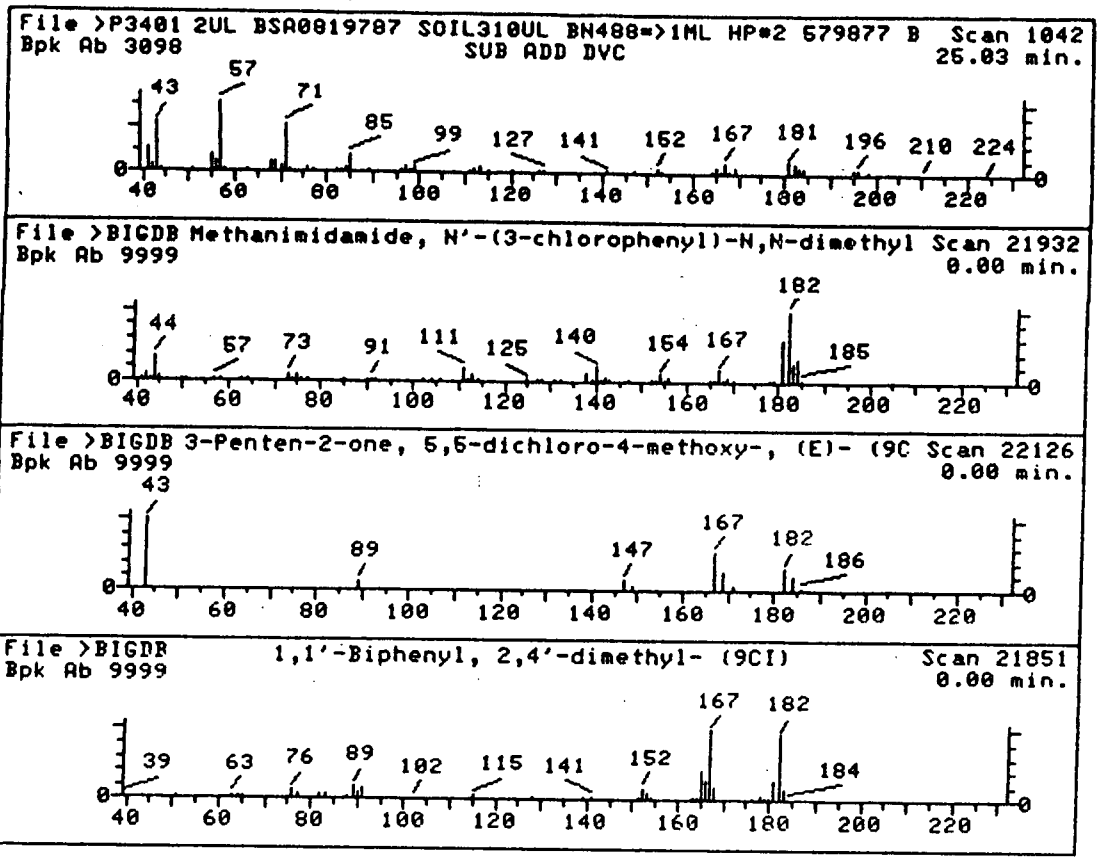
Unknown #,7

Area = 61846.00 Tentative Concentration is 21.00

1.	Undecane, 3,8-dimethyl- (8CI)	184 C13H28
2.	Hexadecane (8CI9CI)	226 C16H34
3.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
4.	Pentacosane (8CI9CI)	352 C25H52
5.	Hexane, 2,4,4-trimethyl- (8CI9CI)	128 C9H20
6.	Decane, 5-propyl- (8CI)	184 C13H28
7.	Nonane, 2-methyl-5-propyl- (8CI)	184 C13H28

Sample file: >P3401 Spectrum #: 912
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52	17301303	6154	"BIGDB	69	39	2	0	87	18	20	19

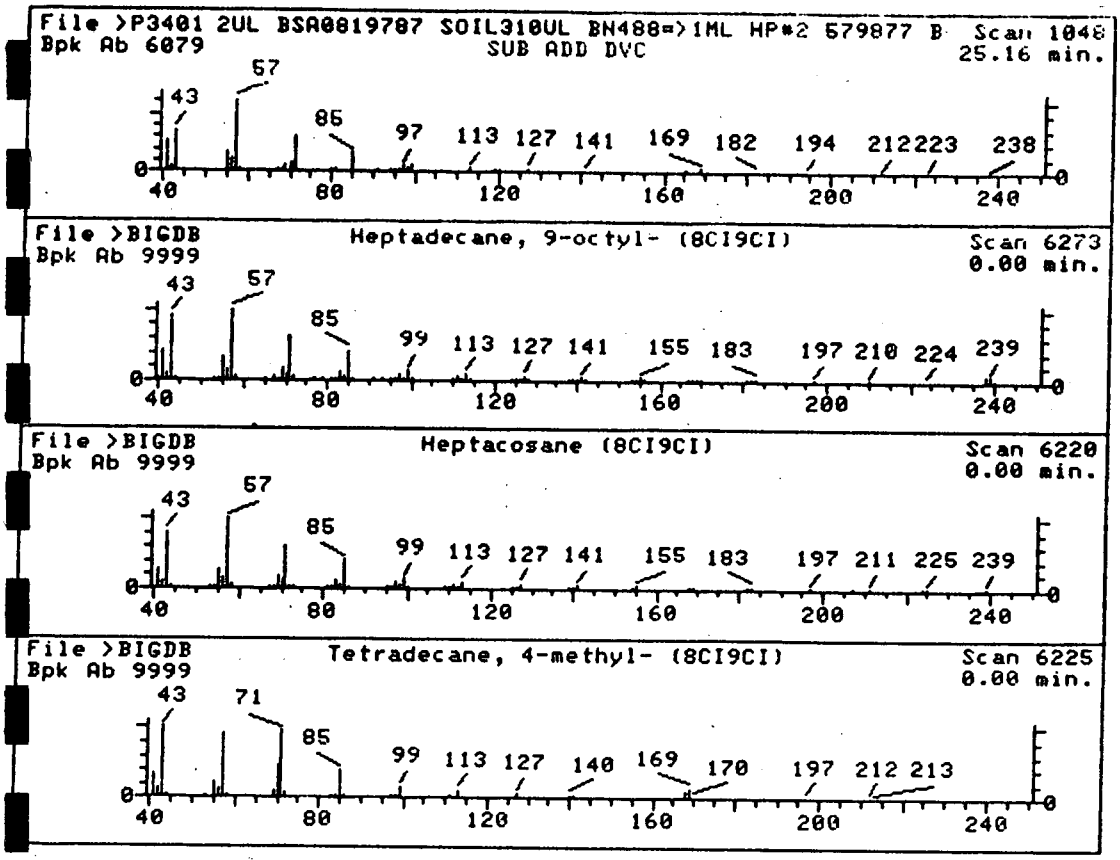


Unknown #,9
Area = 67962.00 Tentative Concentration is 23.00

1.	Methanimidamide, N'-(3-chlorophenyl)-N,N-dimethyl- (9CI)	182	C9H11ClN2
2.	3-Penten-2-one, 5,5-dichloro-4-methoxy-, (E)- (9CI)	182	C6H8Cl2O2
3.	1,1'-Biphenyl, 2,4'-dimethyl- (9CI)	182	C14H14
4.	1,1'-Biphenyl, 2,3'-dimethyl- (9CI)	182	C14H14
5.	Tricyclo[4.4.1.02,5]undeca-1(10),3,6,8-tetraene, 11-(1-methylethylidene)- (9CI)	182	C14H14
6.	Methanimidamide, N'-(4-chlorophenyl)-N,N-dimethyl- (9CI)	182	C9H11ClN2
7.	1,1'-Biphenyl, 2-ethyl- (9CI)	182	C14H14

Sample file: >P3401 Spectrum #: 1042
Search speed: 1 Tilting option: N No. of ion ranges searched: 51

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	25*	2103506	21932	"BIGDB	33	61	3	0	16	47	7	13

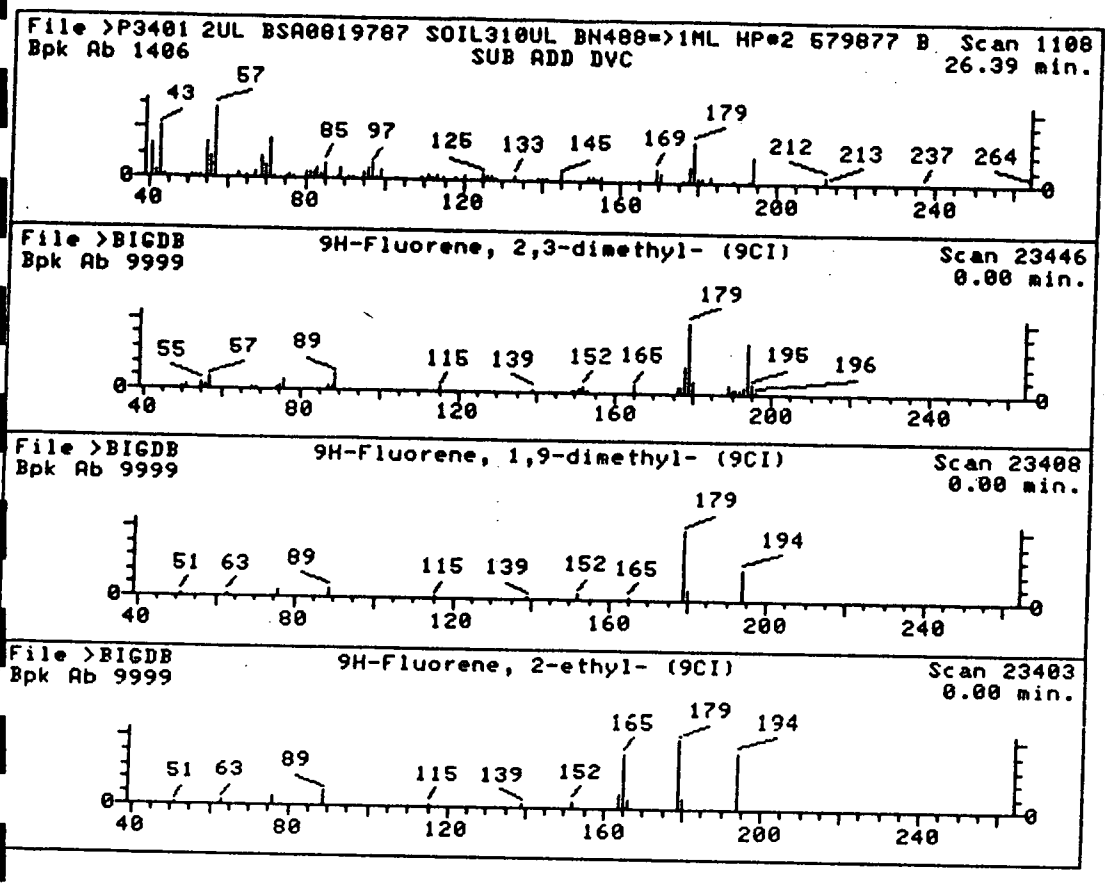


Unknown #,10
Area = 87000.00 Tentative Concentration is 30.00

1.	Heptadecane, 9-octyl- (8CI9CI)	352 C25H52
2.	Heptacosane (8CI9CI)	380 C27H56
3.	Tetradecane, 4-methyl- (8CI9CI)	212 C15H32
4.	Hexatriacontane (8CI9CI)	506 C36H74
5.	Hexadecane (8CI9CI)	226 C16H34
6.	Undecane, 3,9-dimethyl- (8CI)	184 C13H28
7.	Heptadecane (8CI9CI)	240 C17H36

Sample file: >P3401 Spectrum #: 1048
Search speed: 1 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	70	7225641	6273	"BIGDB	61	82	2	0	56	9	42	12
2.	70	593497	6220	"BIGDB	62	91	2	0	53	9	42	13

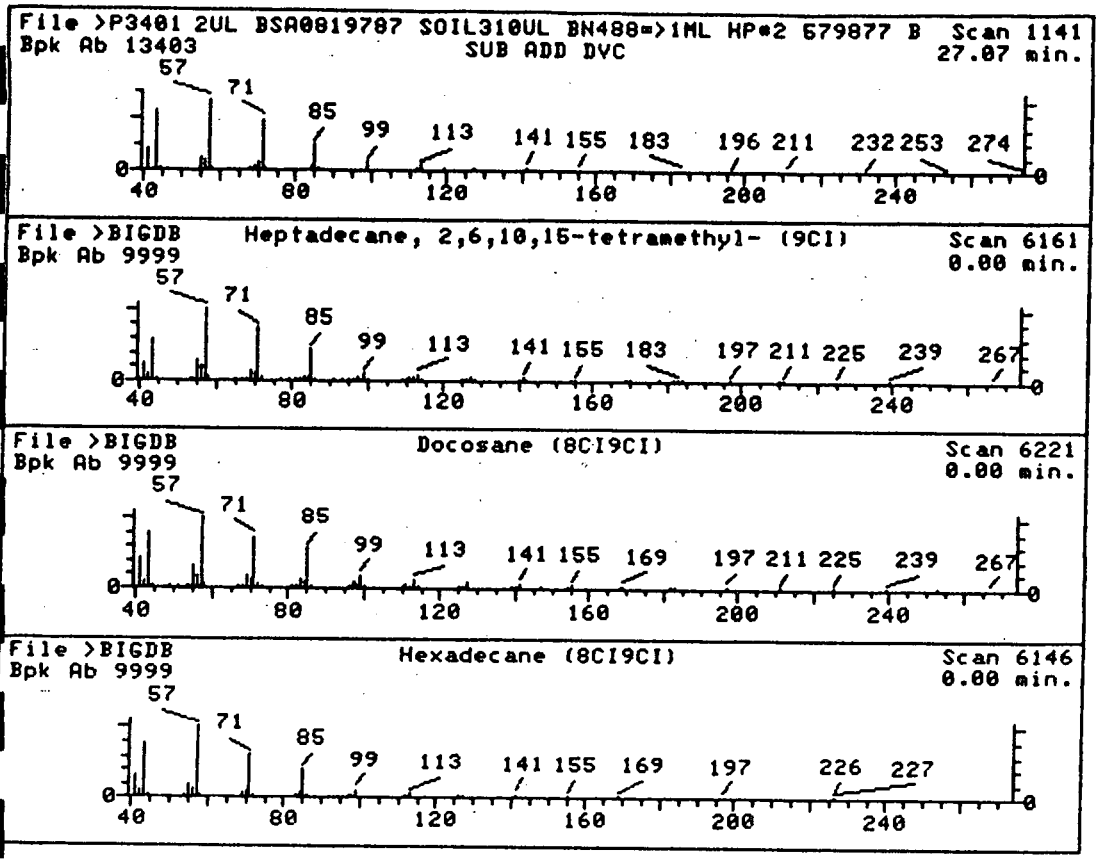


Unknown #,12
Area = 44905.00 Tentative Concentration is 15.00

1.	9H-Fluorene, 2,3-dimethyl- (9CI)	194 C15H14
2.	9H-Fluorene, 1,9-dimethyl- (9CI)	194 C15H14
3.	9H-Fluorene, 2-ethyl- (9CI)	194 C15H14
4.	Silane, trimethyl(3,5-xylyloxy)- (8CI)	194 C11H18OSi
5.	Benzene, 1-methyl-3-(2-phenylethenyl)-, (E)- (9CI)	194 C15H14
6.	Benzene, 1-methyl-2-(2-phenylethenyl)- (9CI)	194 C15H14
7.	Benzene, 1,4-dimethoxy-2,3,5,6-tetramethyl- (8CI9CI)	194 C12H18O2

Sample file: >P3401 Spectrum #: 1108
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	51*	4612639	23446	"BIGDB	58	69	2	0	52	34	20	35

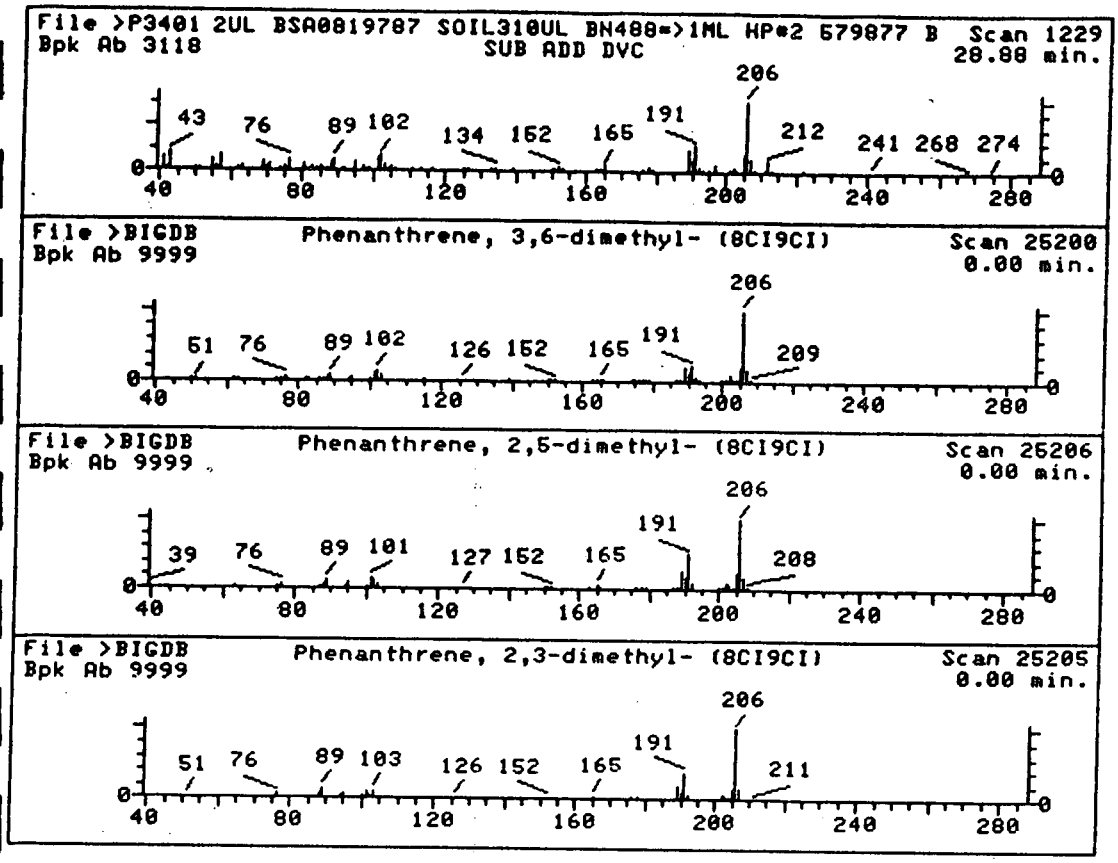


Unknown #,13
Area = 199154.0 Tentative Concentration is 68.00

1.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
2.	Docosane (8CI9CI)	310 C22H46
3.	Hexadecane (8CI9CI)	226 C16H34
4.	Heptadecane (8CI9CI)	240 C17H36
5.	Dodecane, 2,7,10-trimethyl- (9CI)	212 C15H32
6.	Pentatriacontane (8CI9CI)	492 C35H72
7.	Pentadecane (8CI9CI)	212 C15H32

Sample file: >P3401 Spectrum #: 1141
Search speed: 1 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	83	54833486	6161	"BIGDB	93	40	2	0	83	2	57	28
2.	78	629970	6221	"BIGDB	64	83	2	0	63	4	55	14
3.	76	544763	6146	"BIGDB	87	33	2	0	93	9	45	25
4.	76	629787	6090	"BIGDB	80	41	2	0	95	9	45	21
5.	71	74645980	3988	"BIGDB	83	26	2	0	94	13	38	31
6.	70	630079	6147	"BIGDB	72	79	3	0	95	6	42	12
7.	70	629629	6265	"BIGDB	75	45	2	0	83	9	42	19



Unknown #,14

Area = 153296.0 Tentative Concentration is 52.00

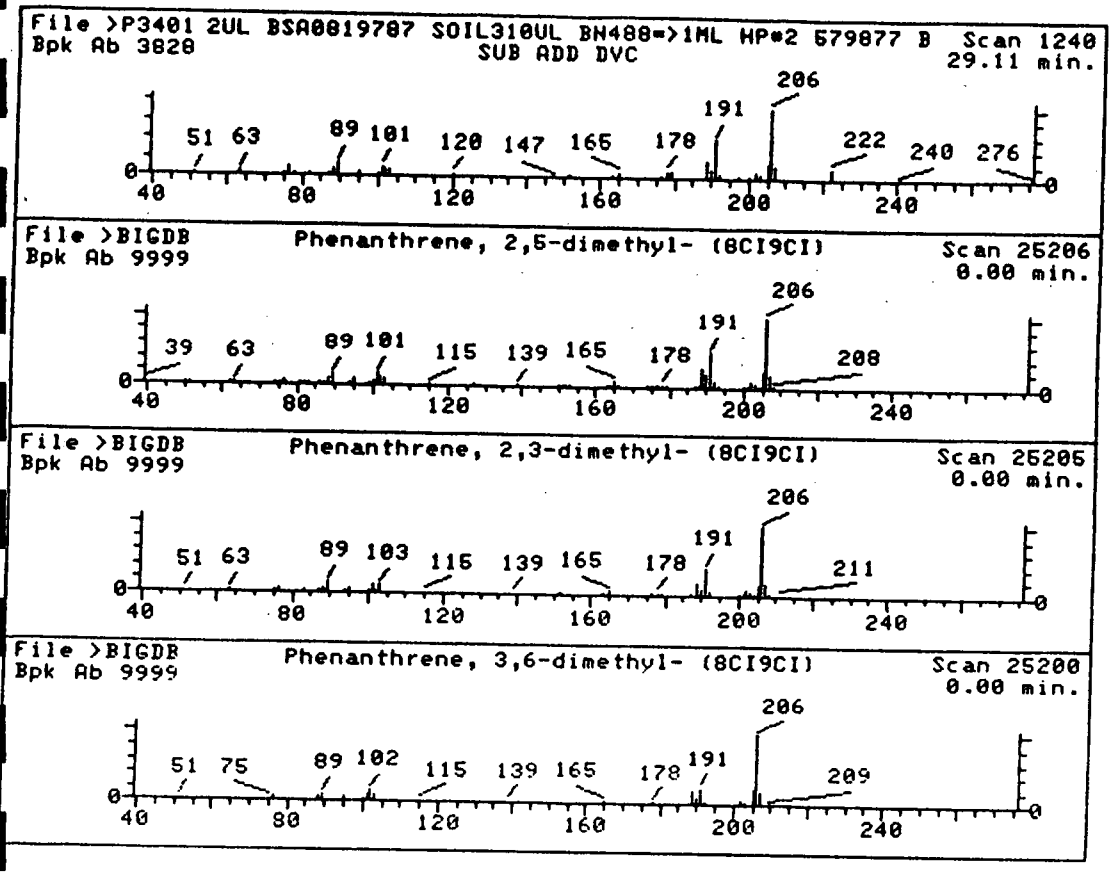
125

1.	Phenanthrene, 3,6-dimethyl- (8CI9CI)	206 C16H14
2.	Phenanthrene, 2,5-dimethyl- (8CI9CI)	206 C16H14
3.	Phenanthrene, 2,3-dimethyl- (8CI9CI)	206 C16H14
4.	Pyrene, 4,5,9,10-tetrahydro- (8CI9CI)	206 C16H14
5.	Naphthalene, 1,2-dihydro-4-phenyl- (8CI9CI)	206 C16H14
6.	Benzene, 1,1'-(1-cyclobutene-1,2-diyl)bis- (9CI)	206 C16H14
7.	Phenanthrene, 4,5-dimethyl- (8CI9CI)	206 C16H14

Sample file: >P3401 Spectrum #: 1229
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	71*	1576676	25200	"BIGDB	59	71	2	0	100	13	38	36

416

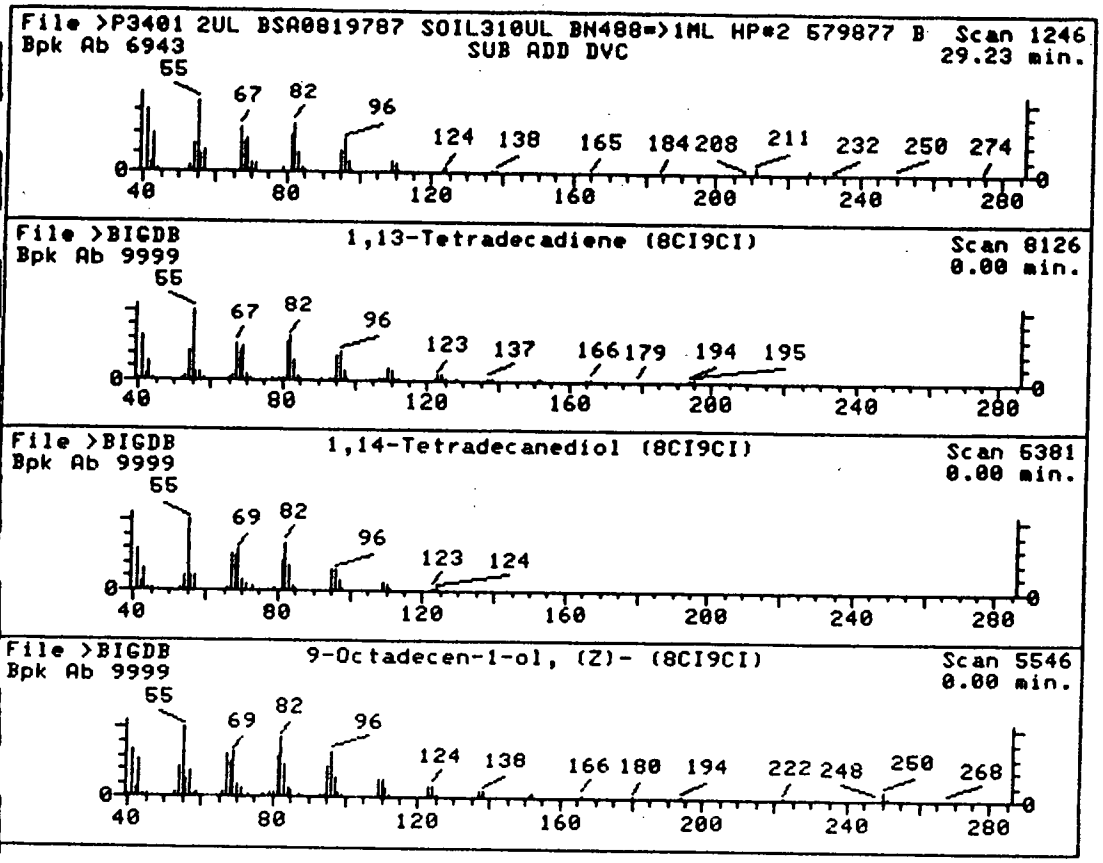


Unknown #,15
Area = 53231.00 Tentative Concentration is 18.00

1.	Phenanthrene, 2,5-dimethyl- (8CI9CI)	206 C16H14
2.	Phenanthrene, 2,3-dimethyl- (8CI9CI)	206 C16H14
3.	Phenanthrene, 3,6-dimethyl- (8CI9CI)	206 C16H14
4.	Phenanthrene, 2-ethyl- (8CI9CI)	206 C16H14
5.	Naphthalene, 1,2-dihydro-4-phenyl- (8CI9CI)	206 C16H14
6.	Phenanthrene, 9,10-dimethyl- (8CI9CI)	206 C16H14
7.	Phenanthrene, 2,7-dimethyl- (8CI9CI)	206 C16H14

Sample file: >P3401 Spectrum #: 1240
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	97*	3674666	25206	"BIGDB	118	14	1	0	88	8	68	97
2.	89*	3674655	25205	"BIGDB	102	28	2	0	100	4	66	78
3.	76*	1576676	25200	"BIGDB	86	44	3	0	100	15	40	52

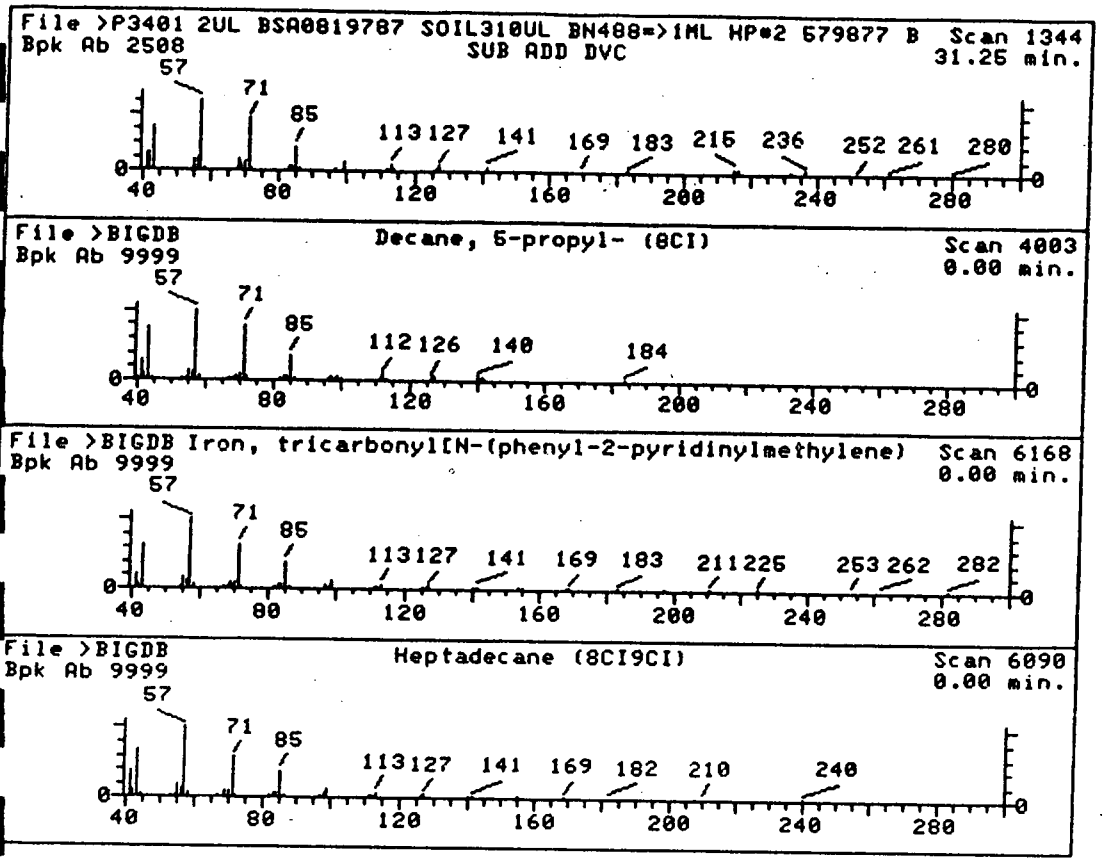


Unknown #,16
Area = 282586.0 Tentative Concentration is 96.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	1,14-Tetradecanediol (8CI9CI)	230 C14H30O2
3.	9-Octadecen-1-ol, (Z)- (8CI9CI)	268 C18H36O
4.	1,12-Dodecanediol (8CI9CI)	202 C12H26O2
5.	Cyclododecene, (E)- (8CI9CI)	166 C12H22
6.	1,12-Tridecadiene (8CI9CI)	180 C13H24
7.	Cyclodecanol (8CI9CI)	156 C10H20O

Sample file: >P3401 Spectrum #: 1246
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	86	21964498	8126	"BIGDB	117	11	1	0	86	10	59	73

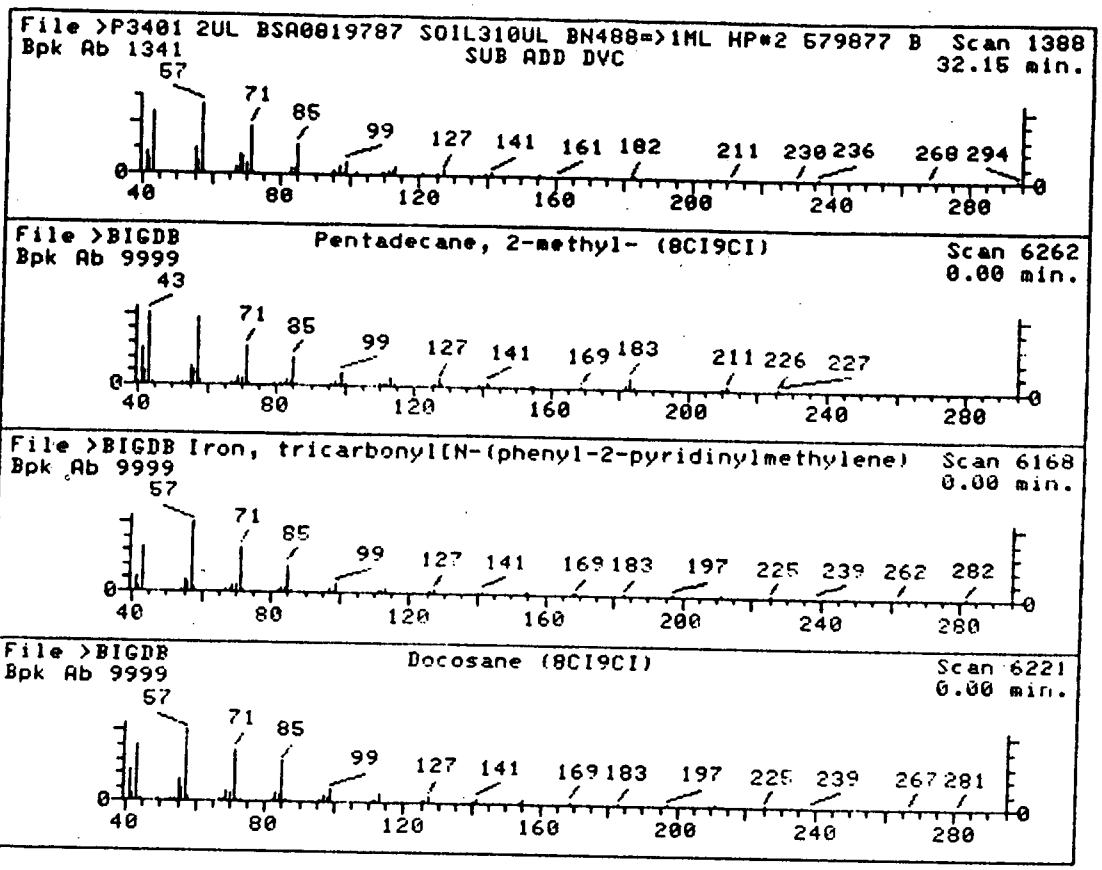


Unknown #,18
Area = 42783.00 Tentative Concentration is 15.00

1.	Decane, 5-propyl- (8CI)	184 C13H28
2.	Iron, tricarbonyl[N-(phenyl-2-pyridinylmethylene)benzenamine-N,N']- (9CI)	398 C21H14FeN2O3
3.	Heptadecane (8CI9CI)	240 C17H36
4.	Dodecane, 2,7,10-trimethyl- (9CI)	212 C15H32
5.	Tritetracontane (8CI9CI)	604 C43H88
6.	Decane, 2,3,5-trimethyl- (9CI)	184 C13H28
7.	Undecane, 2-methyl- (8CI9CI)	170 C12H26

Sample file: >P3401 Spectrum #: 1344
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	67*	17312628	4003	"BIGDB	72	39	2	0	83	27	27	54

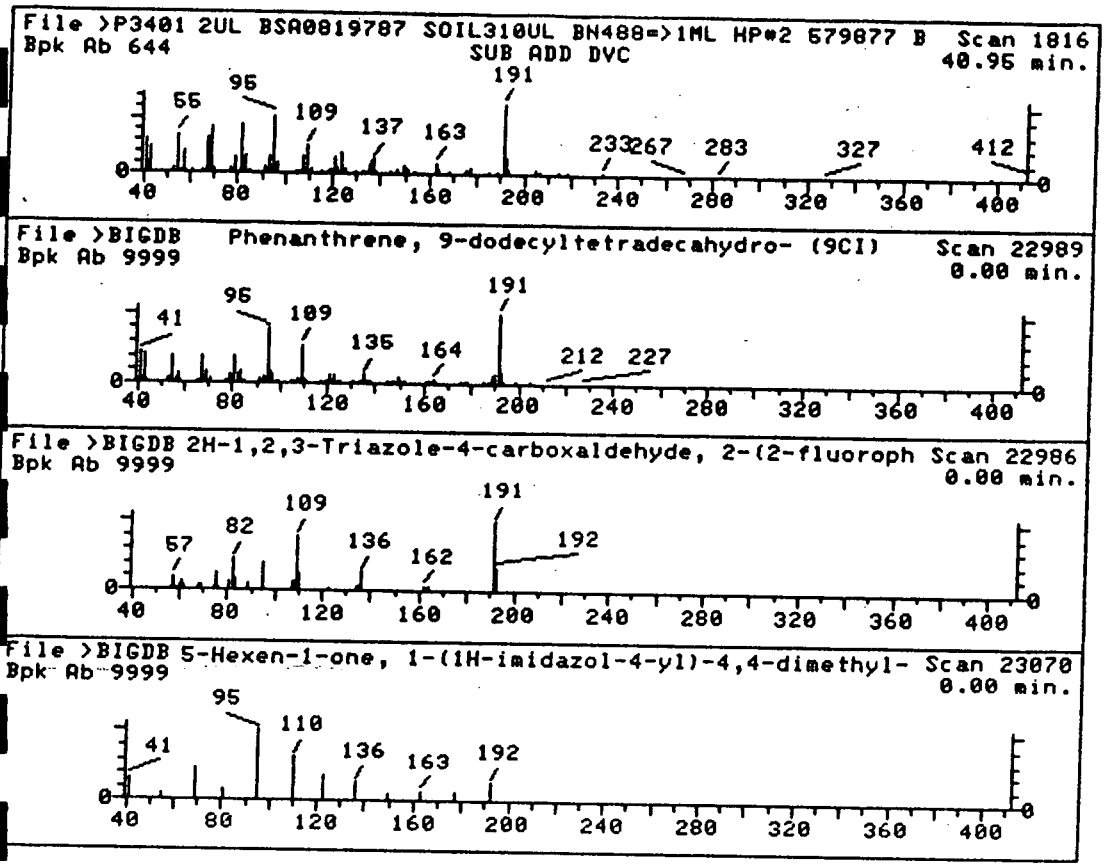


. Unknown #,19
Area = 33364.00 Tentative Concentration is 11.00

1.	Pentadecane, 2-methyl- (8CI9CI)	226 C16H34
2.	Iron, tricarbonyl[N-(phenyl-2-pyridinylmethylene)benzenamine-N,N']- (9CI)	398 C21H14FeN2O3
3.	Docosane (8CI9CI)	310 C22H46
4.	Pentatriacontane (8CI9CI)	492 C35H72
5.	Nonane, 3,7-dimethyl- (8CI9CI)	156 C11H24
6.	Eicosane, 10-methyl- (9CI)	296 C21H44
7.	Tridecane, 6-propyl- (9CI)	226 C16H34

Sample file: >P3401 Spectrum #: 1388
Search speed: 1 Tilting option: N No. of ion ranges searched: 54

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	73*	1560936	6262	"BIGDB	85	47	2	0	88	25	32	66



Unknown #,20
Area = 41613.00 Tentative Concentration is 14.00

1.	Phenanthrene, 9-dodecyltetradecahydro- (9CI)	360 C26H48
2.	2H-1,2,3-Triazole-4-carboxaldehyde, 2-(2-fluorophenyl)- (9CI)	191 C9H6FN3O
3.	5-Hexen-1-one, 1-(1H-imidazol-4-yl)-4,4-dimethyl- (9CI)	192 C11H16N2O
4.	2-Decyne (8CI9CI)	138 C10H18
5.	7-Oxabicyclo[2.2.1]heptane, 2-(2-butenylidene)-1,3,3-trimethyl-, (Z,E)- (9CI)	192 C13H20O
6.	Isoborneol (8CI)	154 C10H18O

Sample file: >P3401 Spectrum #: 1816
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

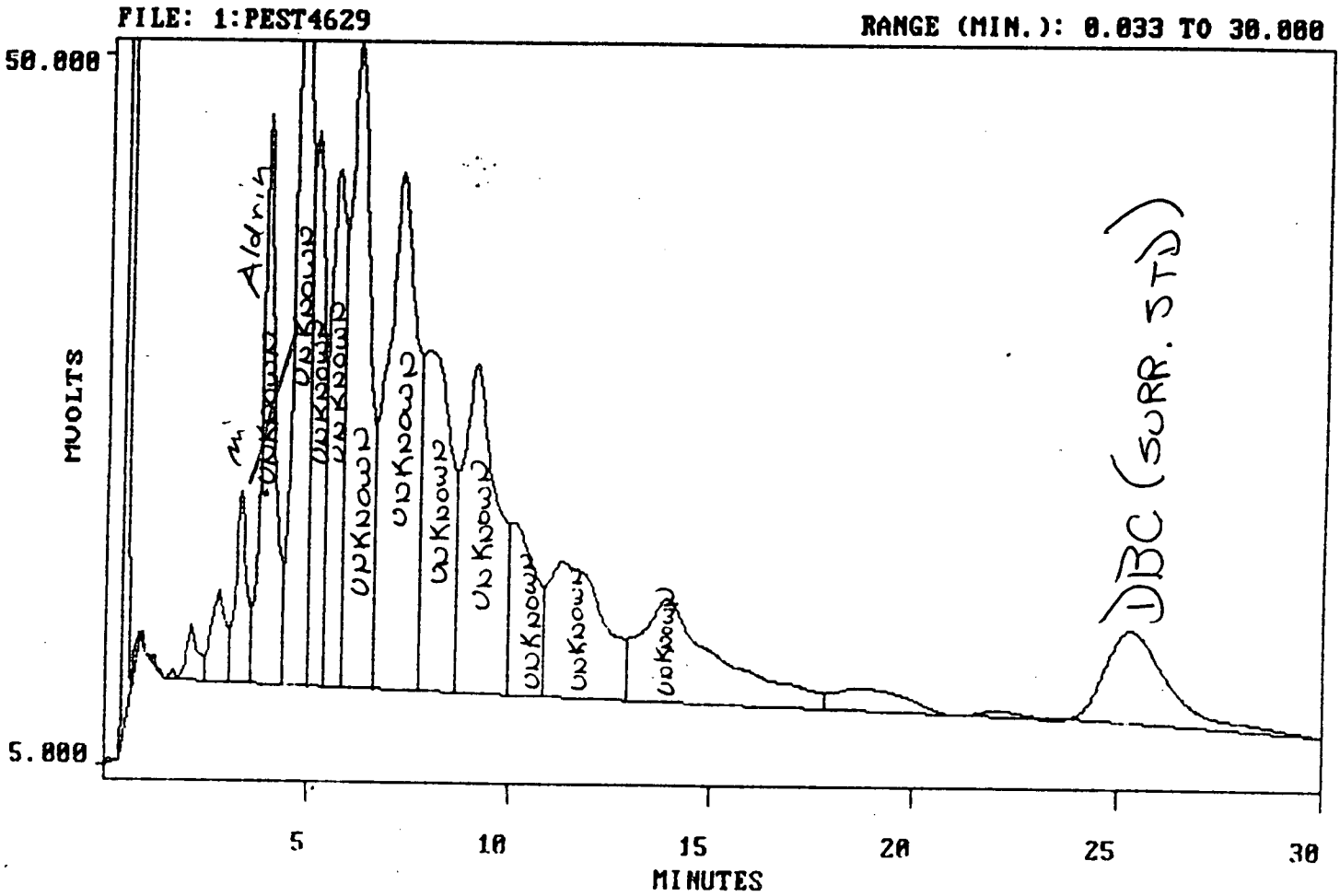
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	29	55334015	22989	"BIGDB	70	103	3	0	100	34	12	12

BSA 0819787

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:14:32:46 Date:THU 10 SEP 87

Time:03:34:45 Date:THU 10 SEP 87
Method:PEST1



422

Channel # . . . . 4 Time:04:05:26 Date:THU 10 SEP 87
Run #19 of 50

Sample name . . . . . .
Data file DAT351:PEST4629
Method name PEST1

Author . . . . . .URM
Instrument 4
Column . . . . . 1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes . . . . . .SUPELCOPORT

Run time . . . . . .30.00 min. Delay time . . . 0.00 min.
Acq. time . . . . .03:34:45 Acq. date . . . .THU 10 SEP 87
Start PW . . . . .20.00 sec. End PW . . . . . .150.00 sec.
Actual PW . . . 140.0
Slope sens . . . . 0.70 uv/sec.

Area reject 500
peaks found . .23
Vol. Inj . . . . . .5.0 ul Sample amount . .1.000
Conv factor . . .1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.575	LINDANE	0	
3.130	HEPTACHLOR	0	
3.770	ALDRIN	0	
8.208	P,P'-DDE	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
12.395	P,P'-DDD	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
22.759	MIREX (STD.)	0	S
27.978	DBC/METHOX/END.K	0	

Ronarell 9/16/87.

==========

AREA PERCENT REPORT

==========

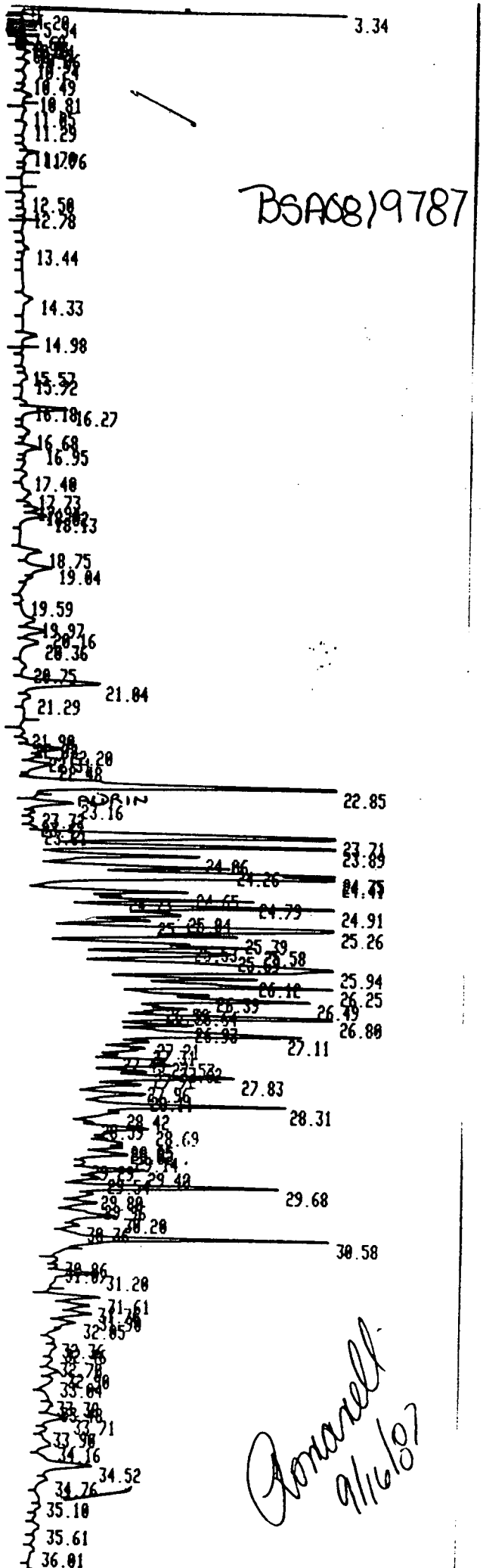
Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL

			0.017	2810	277	BB
2	0.509		20.152	3237567	724336	BE
3	0.845		0.124	19942	451	EB
4	0.921		0.012	1974	623	BB
5	1.222		0.020	3254	661	BB
6	1.686		0.044	7128	762	BV
7	2.130	~~alpha-BHC~~ MLR	0.466	74797	3716	VV
8	2.813	~~beta-BHC~~ MLR	0.926	148817200/218	6051	VV
9	3.335	~~delta-BHC~~ MLR	1.480	237826200/348	12594	VV
10	3.934	ALDRIN	4.974	799143297/1169	37734	VV
				27 µg/kg		
11	4.757		8.070	1296480200/1897	48783	VV
12	5.117		4.151	666909200/976	36871	VV
13	5.619	MLR ~~HEPTACHLOR EPOXIDE~~	5.244	842423200/1233	34271	VV
14	6.118		8.959	1439346200/2106	43027	VV
15	7.205	~~ENDOSULFAN I~~ MLR	10.901	1751340200/2576	34235	VV
16	7.873		6.847	1099972200/1610	22543	VV
17	9.105		7.586	1218798200/1784	21774	VV
18	10.025		3.109	499435200/730	11429	VV
19	11.244		5.323	855147200/1251	8966	VV
20	13.871		6.000	963915200/1410	6827	VV
21	18.635		1.179	189478200/277	1532	VB
22	22.050		0.162	25982	383	BB
23	25.304	DBC (SURR STD)	4.254	683410800/667	6127	BB
TOTALS			100.000	16065893		

500 ug/kg DBC SPIKE IN

133% REC.

424



RUN # 160 SEP/14/87 16:21:12
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 15

HP5890
SPB608

AREA%

RT	AREA	TYPE	AR/HT	AREA%
3.34	3125900	BB	0.112	4.353
4.20	32423	BB	0.071	0.045
5.54	40884	PB	0.041	0.057
8.75	41947	VV	0.105	0.058
9.16	20221	PV	0.060	0.028
9.24	42257	VV	0.054	0.059
10.06	34874	VV	0.062	0.049
10.24	47151	VV	0.085	0.066
10.49	37947	VV	0.113	0.053
10.81	51722	PB	0.072	0.072
11.05	24480	BP	0.080	0.034
11.29	34333	PV	0.094	0.048
11.76	74385	VV	0.063	0.104
13.44	27641	PV	0.065	0.039
14.33	98277	PV	0.120	0.137
14.98	76861	PB	0.070	0.107
15.57	22099	PV	0.070	0.031
15.72	63119	VP	0.126	0.088
16.18	29566	VV	0.060	0.041
16.27	292040	VV	0.083	0.407
16.68	68436	VV	0.097	0.095
16.95	124810	VV	0.095	0.174
17.40	52497	VV	0.096	0.073
17.73	131950	VV	0.159	0.184
17.94	57260	VV	0.070	0.080
18.02	122540	VV	0.087	0.171
18.13	195650	VV	0.096	0.273
18.75	183610	PV	0.114	0.256
19.04	320800	VV	0.134	0.447
19.59	21727	PV	0.088	0.030
19.97	195990	VV	0.161	0.273
20.16	215300	VV	0.108	0.300
20.36	172690	VP	0.119	0.241
20.75	51792	PV	0.118	0.072
21.04	623620	VV	0.103	0.869
21.29	62590	VP	0.093	0.087
21.90	24091	BP	0.081	0.034
22.07	38804	PV	0.078	0.054
22.20	251070	VV	0.083	0.350
22.31	138090	VV	0.098	0.192
22.48	221720	VV	0.108	0.309
22.85	2831300	PB	0.077	3.943
23.16 ALDRIN	225450	PP	0.073	0.314
23.47	29176	PH	0.074	0.041
23.61	39220	HH	0.057	0.055
23.71	3053900	HH	0.073	4.253
23.89	2013200	HH	0.062	2.804
24.06	1027100	HV	0.079	1.430
24.26	1068500	VV	0.071	1.488
24.35	1297900	VV	0.052	1.808
24.41	2326100	VV	0.069	3.239
24.65	702810	VV	0.059	0.979
24.73	298840	VV	0.044	0.416
24.79	1021200	VV	0.061	1.422
24.91	1939100	VV	0.075	2.701
25.04	1043300	VV	0.093	1.453
* 25.13 Heptachlor Epox	602830	VV	0.068	0.840
25.26	2692000	VV	0.099	3.749
25.39	882760	VV	0.057	1.229
25.53	684020	VV	0.059	0.953
25.58	980350	VV	0.059	1.365
25.69	1707300	VV	0.116	2.378

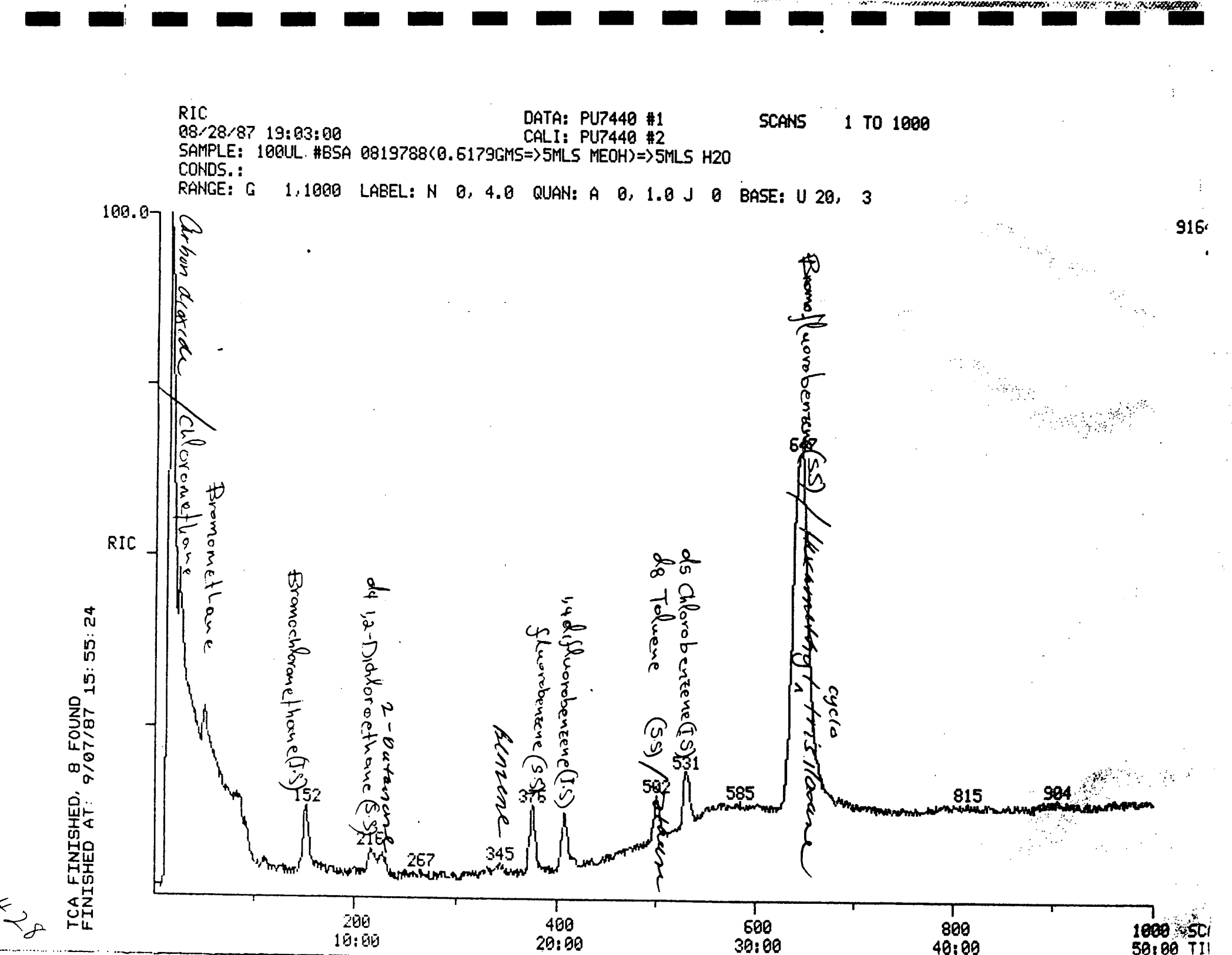
* integrated too high → area < 100000 ✓

25.94	4231200	VV	0.102	3.053
26.12	1134400	VV	0.068	1.580
26.25	2072800	VV	0.089	2.887
26.39	1160800	VV	0.091	1.617
26.49	1853300	VV	0.091	2.581
26.59	364820	VV	0.041	0.508
26.64	746350	VV	0.068	1.039
26.80	2577200	VV	0.078	3.589
26.93	757490	VV	0.066	1.055
27.11	2449600	VV	0.126	3.411
27.21	646070	VV	0.082	0.900
27.31	471200	VV	0.062	0.656
27.43	348840	VV	0.063	0.486
27.53	874540	VV	0.097	1.218
27.62	721870	VV	0.077	1.005
27.72	525050	VV	0.070	0.731
27.83	1476300	VV	0.105	2.056
27.96	650930	VV	0.092	0.907
28.11	786390	VV	0.107	1.095
28.31	1534600	VV	0.086	2.137
28.42	593420	VV	0.114	0.826
28.59	205480	VV	0.065	0.286
28.69	737100	VV	0.102	1.027
28.95	505700	VV	0.096	0.704
29.02	359970	VV	0.069	0.501
29.14	600350	VV	0.108	0.836
29.29	228860	VV	0.100	0.319
29.40	598510	VV	0.088	0.834
29.54	299890	VV	0.093	0.418
29.68	1220000	VV	0.073	1.699
29.80	275980	VV	0.105	0.384
29.96	266010	VV	0.089	0.371
30.20	500540	VV	0.117	0.697
30.36	104590	VP	0.077	0.146
30.58	1510900	PB	0.069	2.104
30.96	26921	BV	0.065	0.038
31.07	29483	VV	0.066	0.041
31.20	332930	VB	0.091	0.464
31.61	330680	BV	0.082	0.461
31.76	337820	VV	0.100	0.471
31.90	351060	VV	0.100	0.489
32.05	230380	VV	0.100	0.321
32.36	87888	VV	0.098	0.122
32.46	176530	VV	0.173	0.246
32.70	110990	VV	0.132	0.155
32.90	153450	VV	0.111	0.214
33.04	144590	VP	0.147	0.201
33.38	100280	PV	0.131	0.140
33.48	156860	VV	0.147	0.219
33.71	270610	VV	0.132	0.377
33.90	76036	VV	0.097	0.106
34.16	192450	VV	0.169	0.268
34.52	614990	VV	0.145	0.857
34.76	150060	VV	0.148	0.209
35.10	80955	VV	0.157	0.113
35.61	100190	VV	0.145	0.140
36.01	60789	VP	0.138	0.085
36.49	82974	BV	0.153	0.116
37.06	54743	VV	0.156	0.076
37.30	112900	VV	0.169	0.157
38.45	46848	PP	0.113	0.065
38.68	42948	I PH	0.079	0.060

TOTAL AREA= 7.1807E+07
MUL FACTOR= 1.0000E+00

REINTEGRATION COMPLETE
CARD-PTS TRANSMITTED FILE: CP4091::-27

III. 2. Reporting Package for NJDEP # Soil 4


RIC
08/28/87 19:03:00
DATA: PU7440 #1
CALI: PU7440 #2
SCANS 1 TO 1000
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
RANGE: G 1.1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
100.0
RIC
Carbon dioxide
Chloromethane
Bromomethane
Bromochloromethane(I.S.)
152
d4 1,2-Dichloroethane (S.S.)
216
2-butanone
267
Benzene
345
Fluorobenzene (S.S.)
1,4-difluorobenzene(I.S.)
d8 Toluene (S.S.)
d5 Chlorobenzene(I.S.)
531
585
Bromofluorobenzene (S.S.)
cyclo
815
904
TCA FINISHED, 8 FOUND
FINISHED AT: 9/07/87 15:55:24
200
10:00
400
20:00
600
30:00
800
40:00
1000
50:00

QUANTITATION REPORT FILE: PU7440

DATA: PU7440.TI
3/28/87 19:03:00
AMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H2O
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

O	M/Z	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT	
1	128	151	7:33	1	1.000	A BB	37982.	30.000 UG/L	1.53	
2	65	217	10:51	1	1.437	A BB	79955.	31.406 UG/L	1.60	
3	NOT FOUND 25						1145550	278.4 ug/L		130000 B
4	NOT FOUND 36						11828	29.7 ug/L		14000
5	62	44	2:12	1	0.291	A BB	282.	0.151 UG/L	0.01	
6	64	60	3:00	1	0.397	A*BB	1204.	0.625 UG/L	0.03	
7	84	91	4:33	1	0.603	A BB	35266.	10.561 UG/L	0.54	4900 B
~~8~~	~~43~~	~~89~~	~~4:27~~	~~1~~	~~0.589~~	~~A BB~~	~~5236.~~	~~1.425 UG/L~~	~~0.07~~	
~~9~~	~~76~~	~~84~~	~~4:12~~	~~1~~	~~0.556~~	~~A*BB~~	~~748.~~	~~26.362 UG/L~~	~~1.34~~	
10	96	145	7:15	1	0.960	A*BB	1304.	0.490 UG/L	0.02	
11	63	174	8:42	1	1.152	A VB	1133.	0.340 UG/L	0.02	
12	96	189	9:27	1	1.252	A*BV	1232.	0.734 UG/L	0.04	
13	83	199	9:57	1	1.318	A*BB	2920.	0.589 UG/L	0.03	
14	62	224	11:12	1	1.483	A*BB	734.	0.136 UG/L	0.01	
15	101	131	6:33	1	0.868	A*BB	905.	0.299 UG/L	0.02	
~~16~~	~~85~~	~~49~~	~~2:27~~	~~1~~	~~0.225~~	~~A*BB~~	~~1415.~~	~~33.795 UG/L~~	~~1.72~~	
~~17~~	~~56~~	~~144~~	~~7:12~~	~~1~~	~~0.954~~	~~A BB~~	~~437.~~	~~63.758 UG/L~~	~~3.24~~	
~~18~~	~~53~~	~~144~~	~~7:12~~	~~1~~	~~0.954~~	~~A*BB~~	~~1669.~~	~~548.166 UG/L~~	~~27.89~~	
19	114	408	20:24	19	1.000	A BB	178777.	30.000 UG/L	1.53	

29

~~20~~	~~NOT FOUND~~									
21	97	222	11:06	19	0.544	A*BB	1184.	~~1.162~~ UG/L	0.06	MUS IDENT
22	117	229	11:27	19	0.561	A BB	375.	0.597 UG/L	0.03	
~~23~~	~~43~~	~~256~~	~~12:48~~	~~19~~	~~0.627~~	~~A*BB~~	~~12374.~~	~~11.510 UG/L~~	~~0.59~~	
24	NOT FOUND									
25	63	283	14:09	19	0.694	A BB	1074.	0.781 UG/L	0.04	
26	75	308	15:24	19	0.755	A*BB	2225.	~~1.442 UG/L~~	~~0.07~~	MUS IDENT
27	130	310	15:30	19	0.760	A*BB	505.	0.177 UG/L	0.01	
28	129	346	17:18	19	0.848	A*BB	1707.	0.700 UG/L	0.04	
29	97	308	15:24	19	0.755	A*VV	1692.	0.634 UG/L	0.03	
30	78	~~313~~ 345	15:45	19	0.772	A BV	~~11973.~~ 18709	~~1.398~~ UG/L 2.185	0.07	1000 J,B
31	NOT FOUND									
32	63	348	17:24	19	0.853	A*VB	1997.	0.291 UG/L	0.01	
33	173	410	20:30	19	1.005	A BB	989.	0.716 UG/L	0.04	
34	117	531	26:33	34	1.000	A BB	132766.	30.000 UG/L	1.53	
~~35~~	~~43~~	~~433~~	~~21:39~~	~~34~~	~~0.815~~	~~A*BV~~	~~89422.~~	~~655.332 UG/L~~	~~93.85~~	
~~36~~	~~43~~	~~443~~	~~22:09~~	~~34~~	~~0.834~~	~~A*VV~~	~~8606.~~	~~38.247 UG/L~~	~~1.95~~	
37	NOT FOUND									
38	83	486	24:18	34	0.915	A BB	294.	0.073 UG/L	0.00	
39	92	507	25:21	34	0.955	A VB	17328.	3.284 UG/L	0.17	1500 B
40	112	518	25:54	34	0.976	A*VV	4658.	0.855 UG/L	0.04	
41	106	550	27:30	34	1.036	A*VB	~~6462.~~	~~2.433 UG/L~~	~~0.12~~	1100 ~~B~~
~~42~~	~~104~~	~~600~~	~~30:00~~	~~34~~	~~1.130~~	~~A BB~~	~~2376.~~	~~48.963 UG/L~~	~~2.47~~	MUS IDENT
~~43~~	~~106~~	~~621~~	~~31:03~~	~~34~~	~~1.169~~	~~A VV~~	~~7043.~~	~~113.054 UG/L~~	~~5.75~~	
~~44~~	~~106~~	~~621~~	~~31:03~~	~~34~~	~~1.169~~	~~A VV~~	~~7043.~~	~~226.108 UG/L~~	~~11.51~~	
45	146	801	40:03	34	1.508	A*BV	13972.	3.722 UG/L	0.19	
46	146	831	41:33	34	1.565	A VV	13076.	3.700 UG/L	0.19	
47	146	838	41:54	34	1.578	A BV	10580.	2.462 UG/L	0.13	
48	96	376	18:48	34	0.708	A BB	239130.	29.519 UG/L	1.50	
49	95	644	32:12	34	1.213	A BB	140697.	30.852 UG/L	1.57	

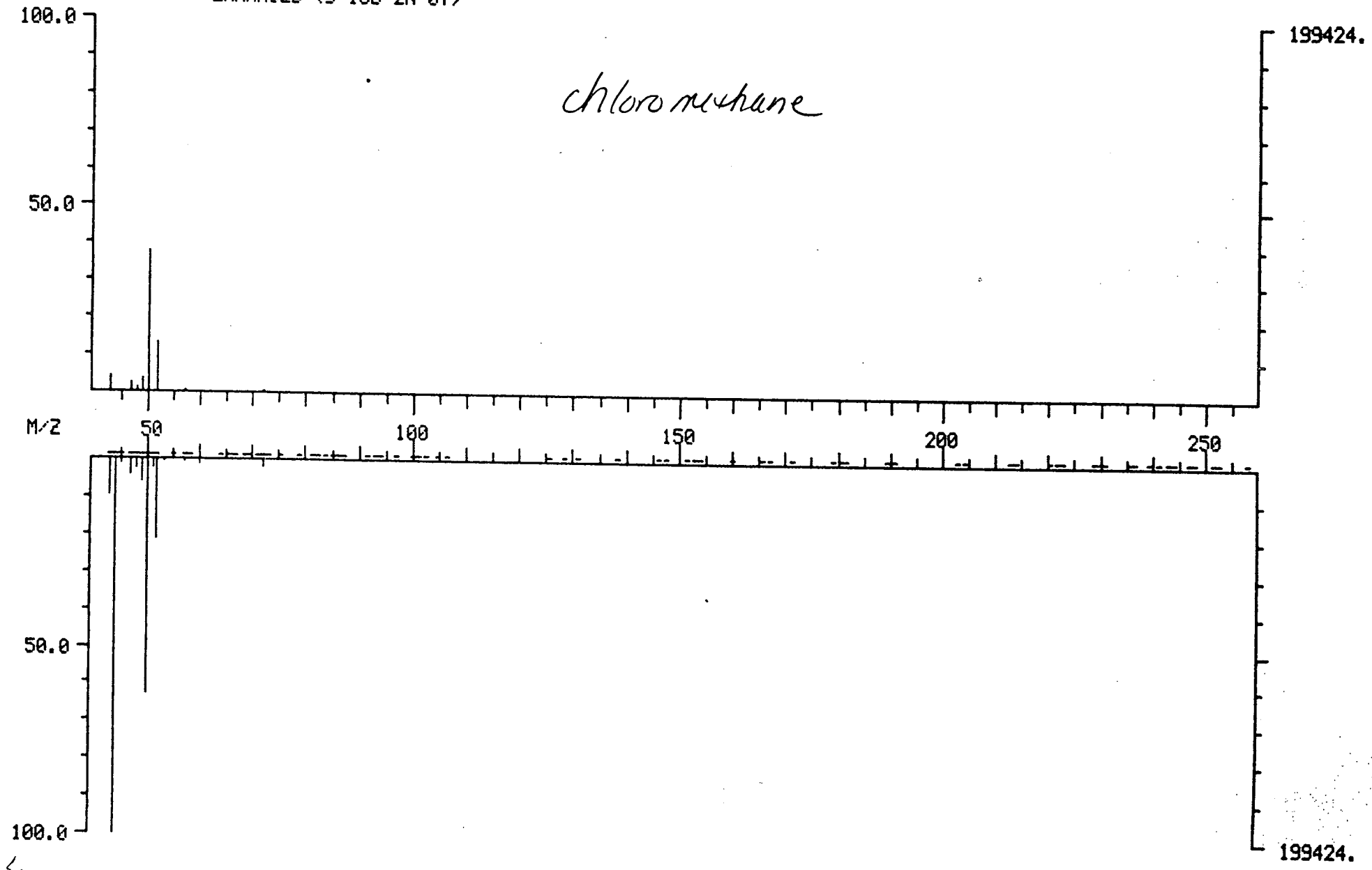
Non Targeted Compounds — Calculated 9/16/87

	Scan #	Ref pk.	Area	Amt (ug/kg)
1	15	1	768710	150000 J,B
2	22	1	209121	4200 J
3	647	34	7055350	260,000 J,B

DUAL MASS SPECTRUM
08/28/87 19:03:00 + 1:15
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 #25
CALI: PU7440 #2

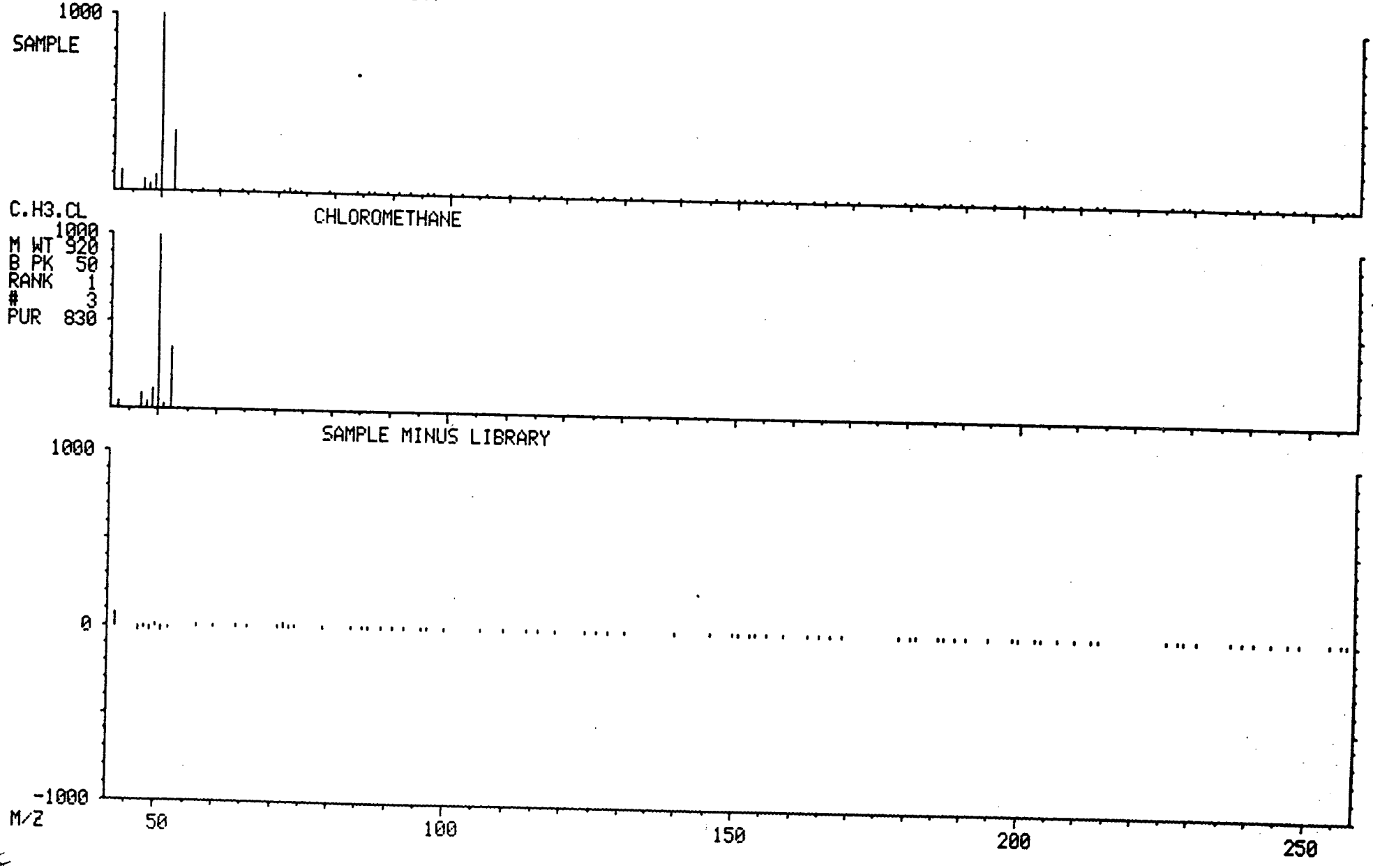
BASE M/Z: 50/ 44
RIC: 131839./ 427007.



LIBRARY SEARCH
08/28/87 19:03:00 + 1:15
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 # 25
CALI: PU7440 # 2

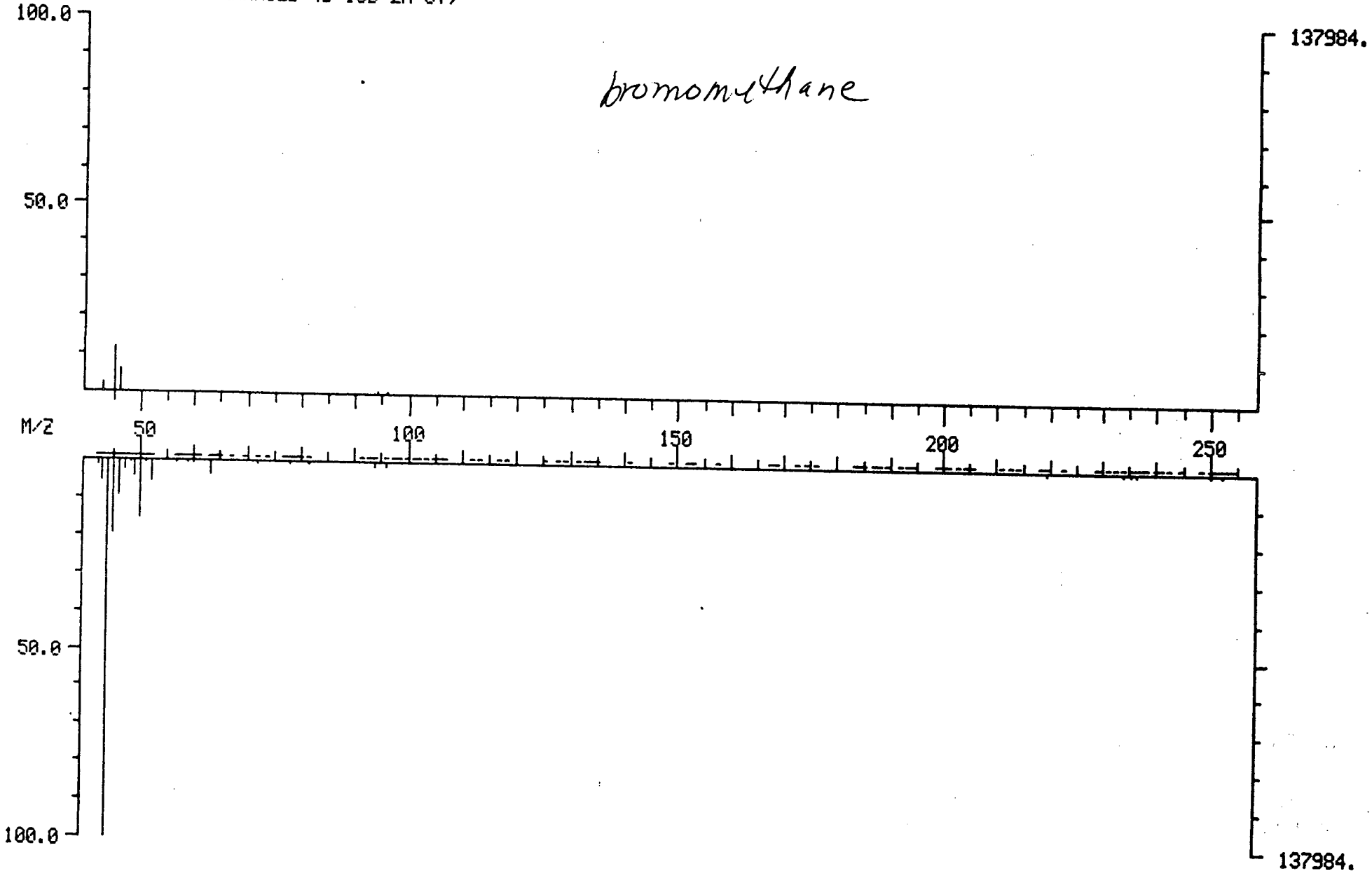
BASE M/Z: 50
RIC: 131583.



DUAL MASS SPECTRUM
08/28/87 19:03:00 + 1:54
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5ML5 MEOH)=>5ML5 H20
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 #38
CALI: PU7440 #2

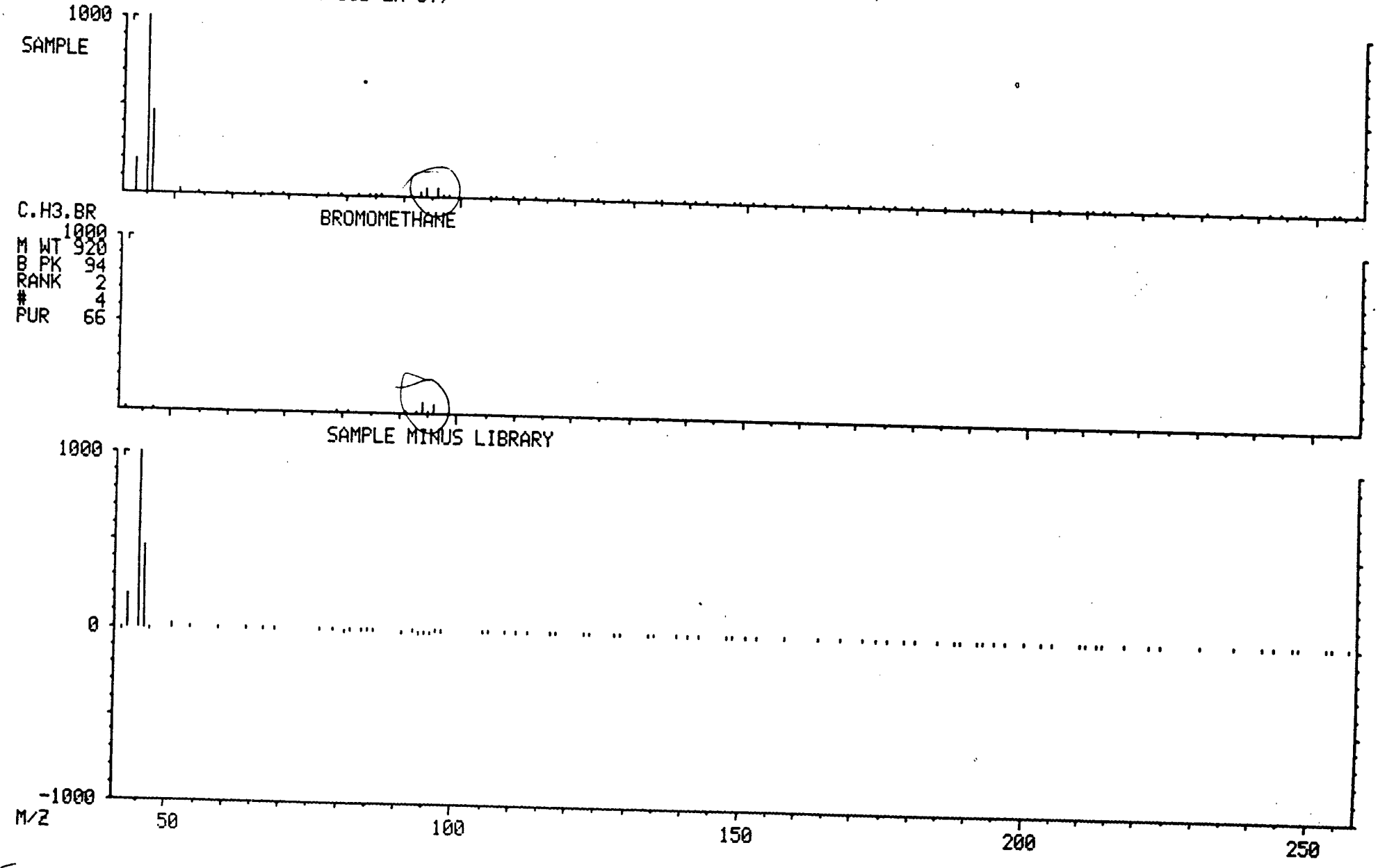
BASE M/Z: 45/ 44
RIC: 39679./ 262143.



LIBRARY SEARCH
08/28/87 19:03:00 + 1:54
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5ML5 MEOH)=>5ML5 H20
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 # 38
CALI: PU7440 # 2

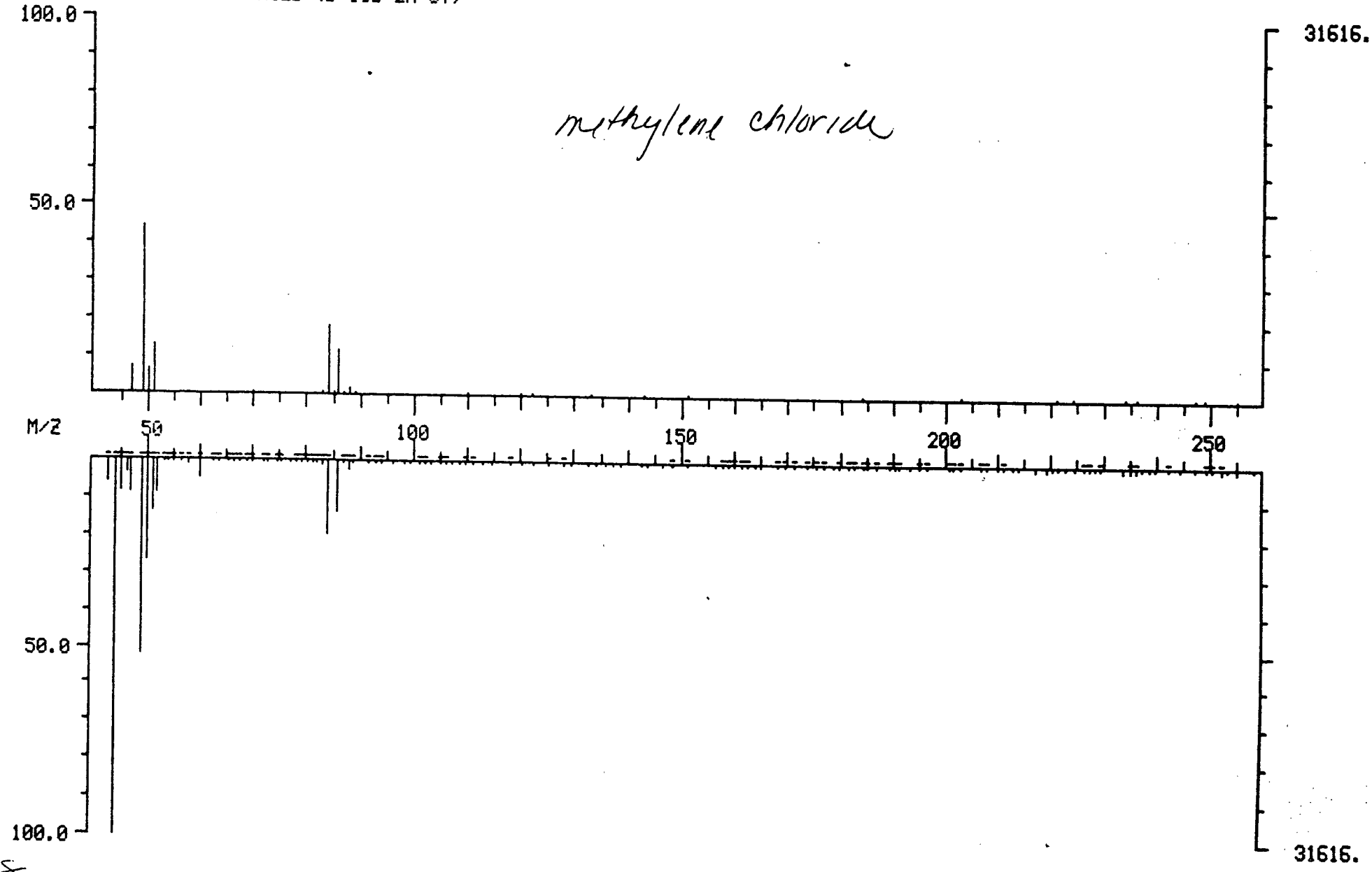
BASE M/Z: 45
RIC: 37887.



DUAL MASS SPECTRUM
08/28/87 19:03:00 + 4:33
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 #91
CALI: PU7440 #2

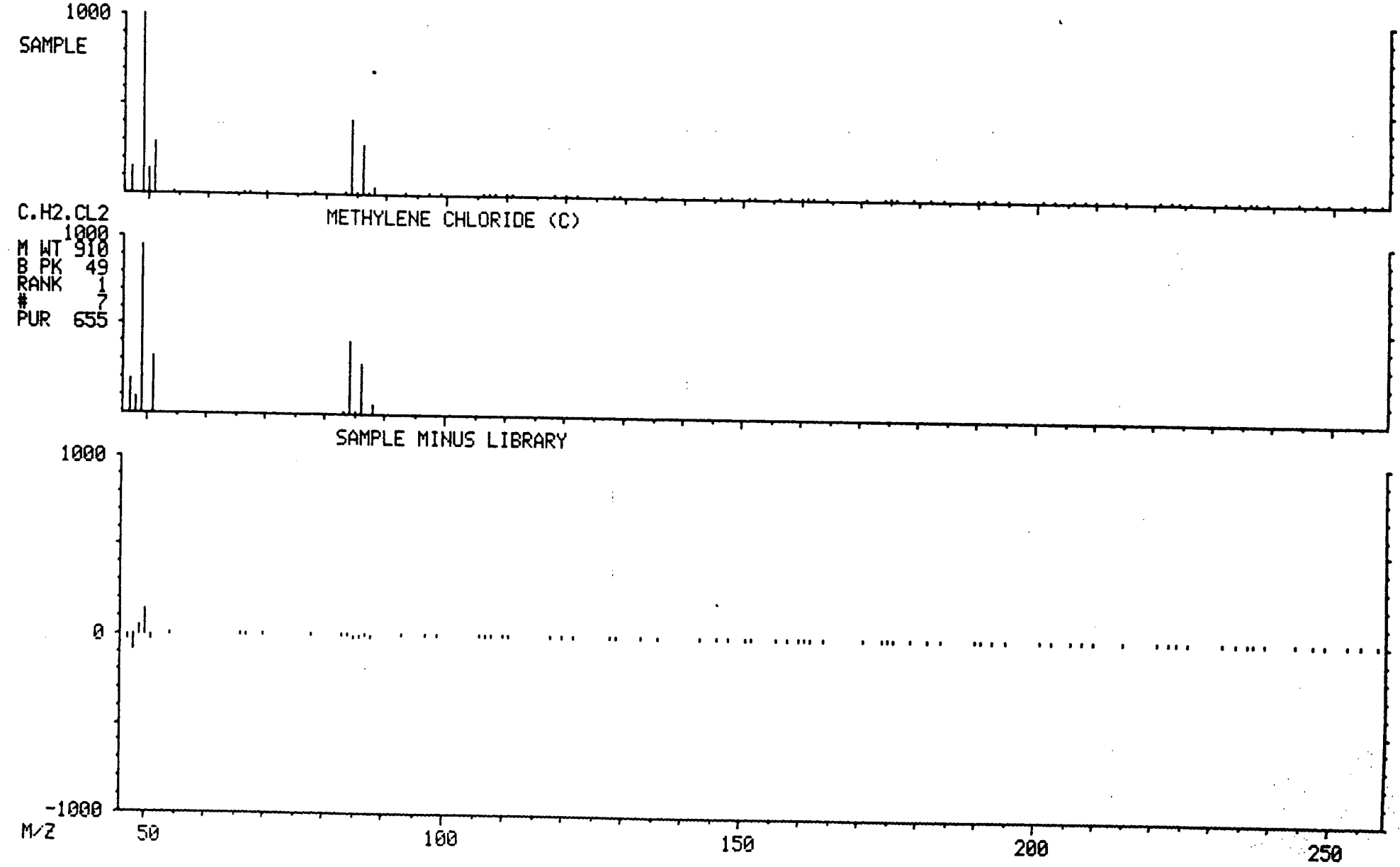
BASE M/Z: 49/ 44
RIC: 38207./ 104575.



LIBRARY SEARCH
08/28/87 19:03:00 + 4:33
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 # 91
CALI: PU7440 # 2

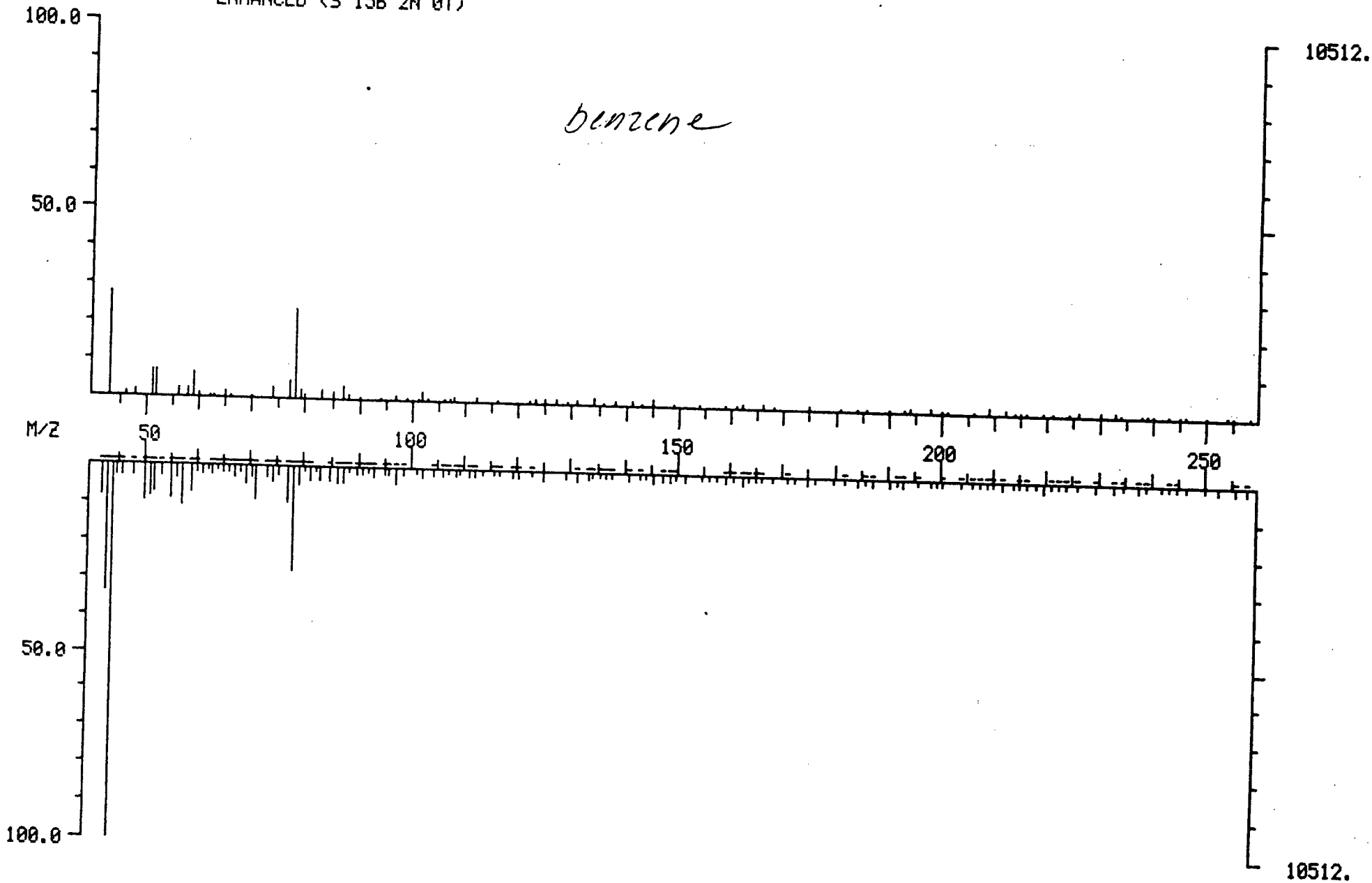
BASE M/Z: 49
RIC: 37823.



DUAL MASS SPECTRUM
08/28/87 19:03:00 + 17:15
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 #345
CALI: PU7440 #2

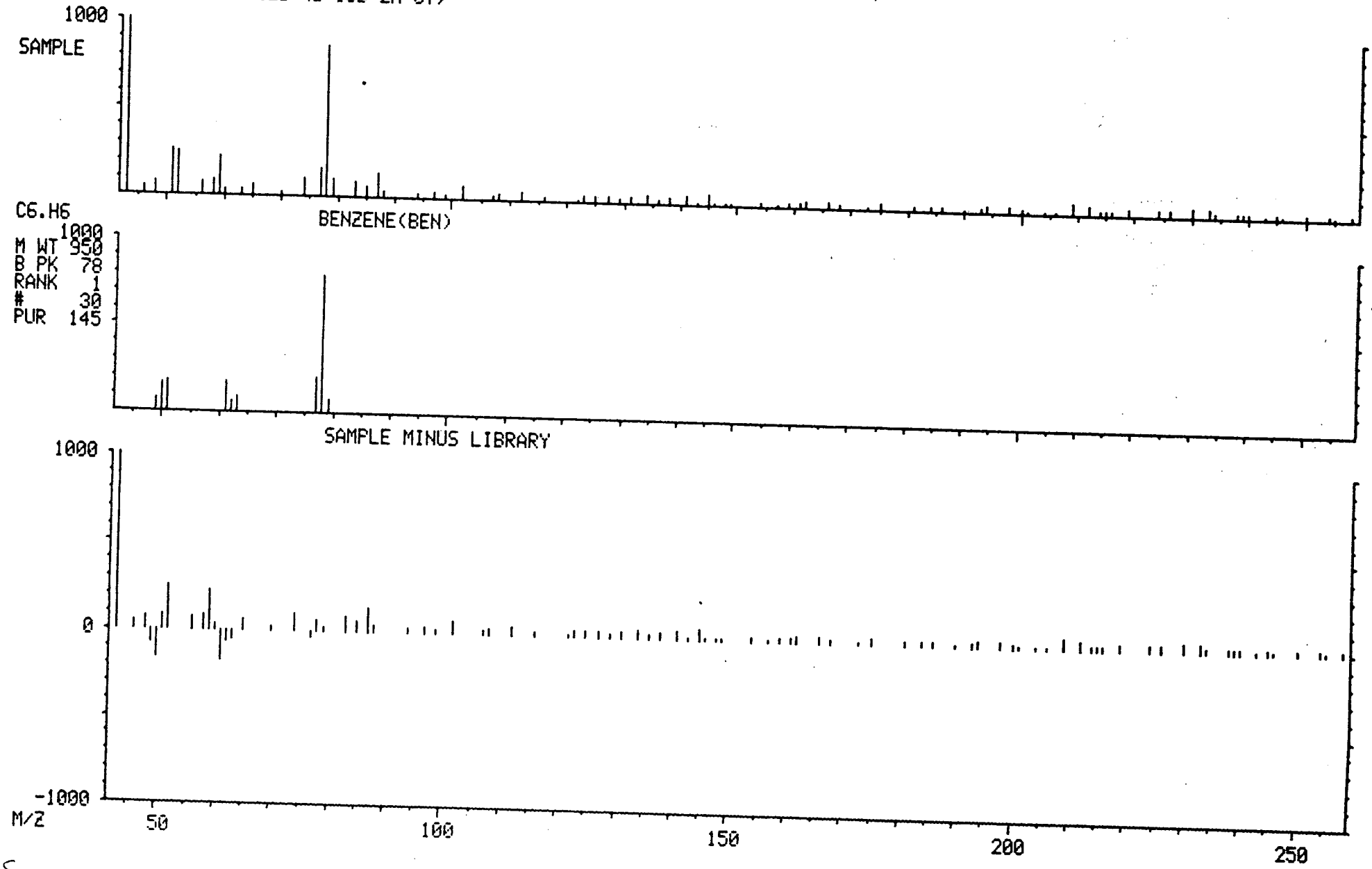
BASE M/Z: 43/ 44
RIC: 16831./ 47999.



LIBRARY SEARCH
08/28/87 19:03:00 + 17:15
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 # 345
CALI: PU7440 # 2

BASE M/Z: 43
RIC: 16255.

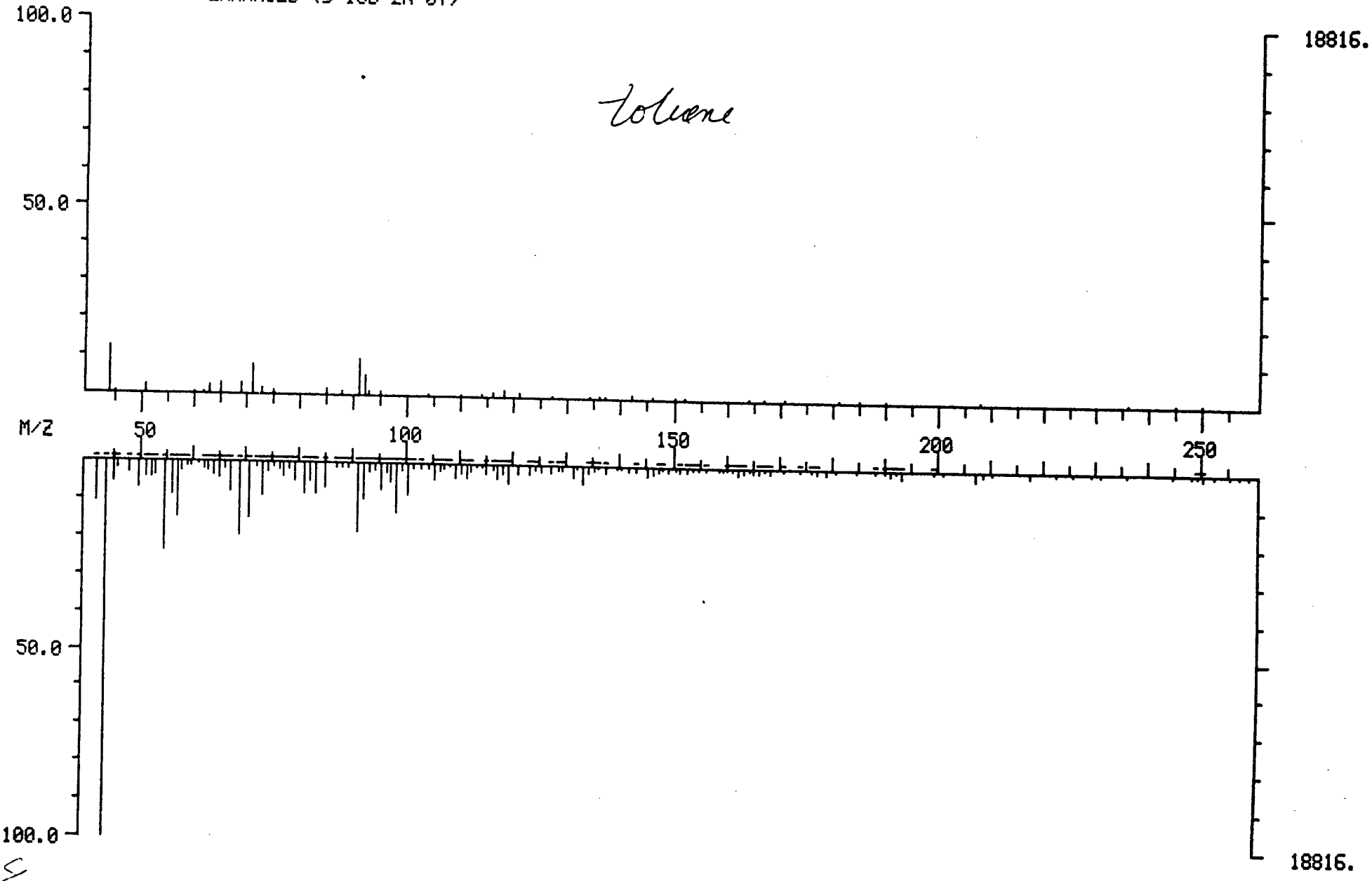


438

DUAL MASS SPECTRUM
08/28/87 19:03:00 + 25:21
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 #507
CALI: PU7440 #2

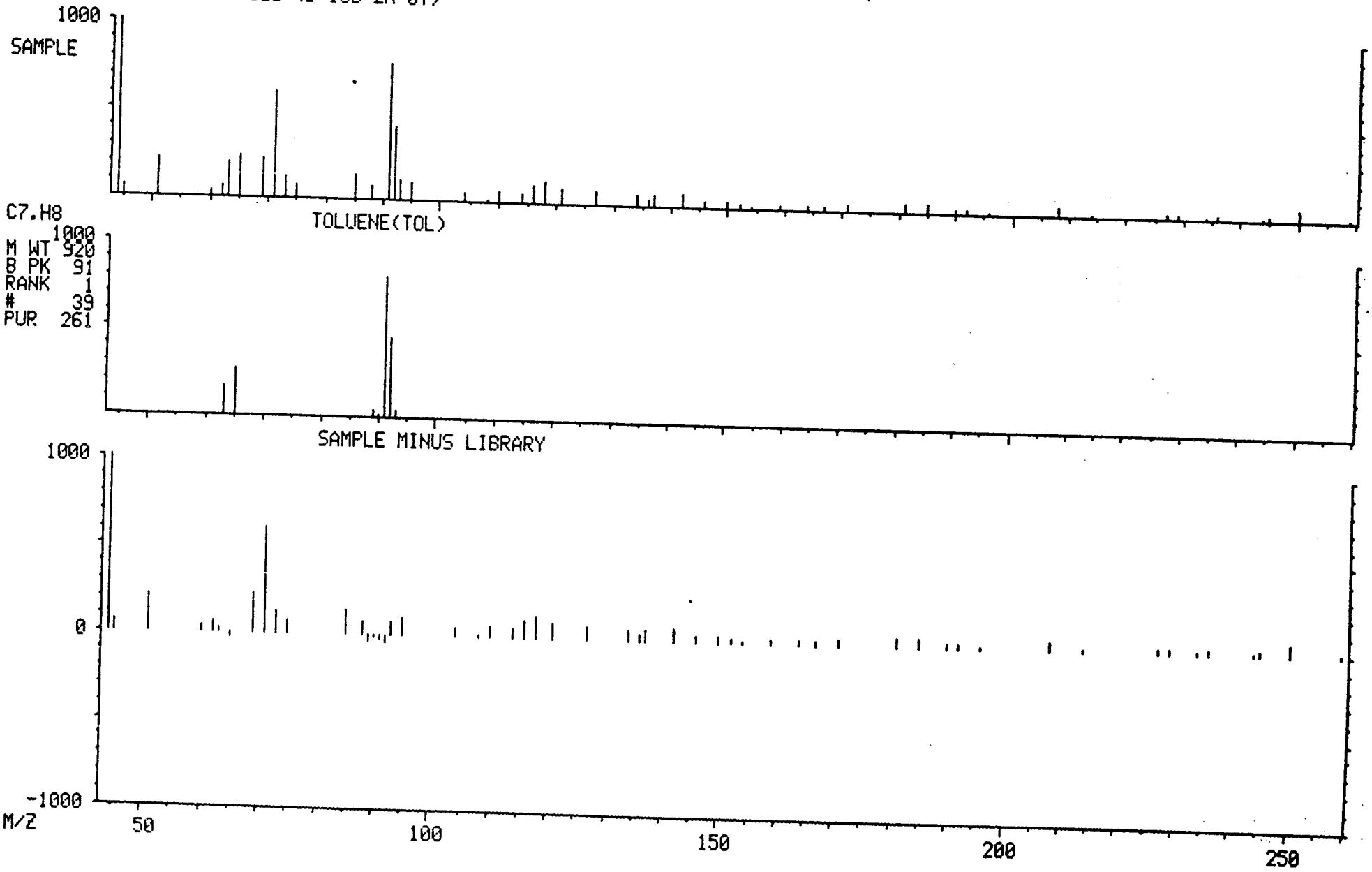
BASE M/Z: 44/ 44
RIC: 14063./ 92799.



LIBRARY SEARCH
08/28/87 19:03:00 + 25:21
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 # 507
CALI: PU7440 # 2

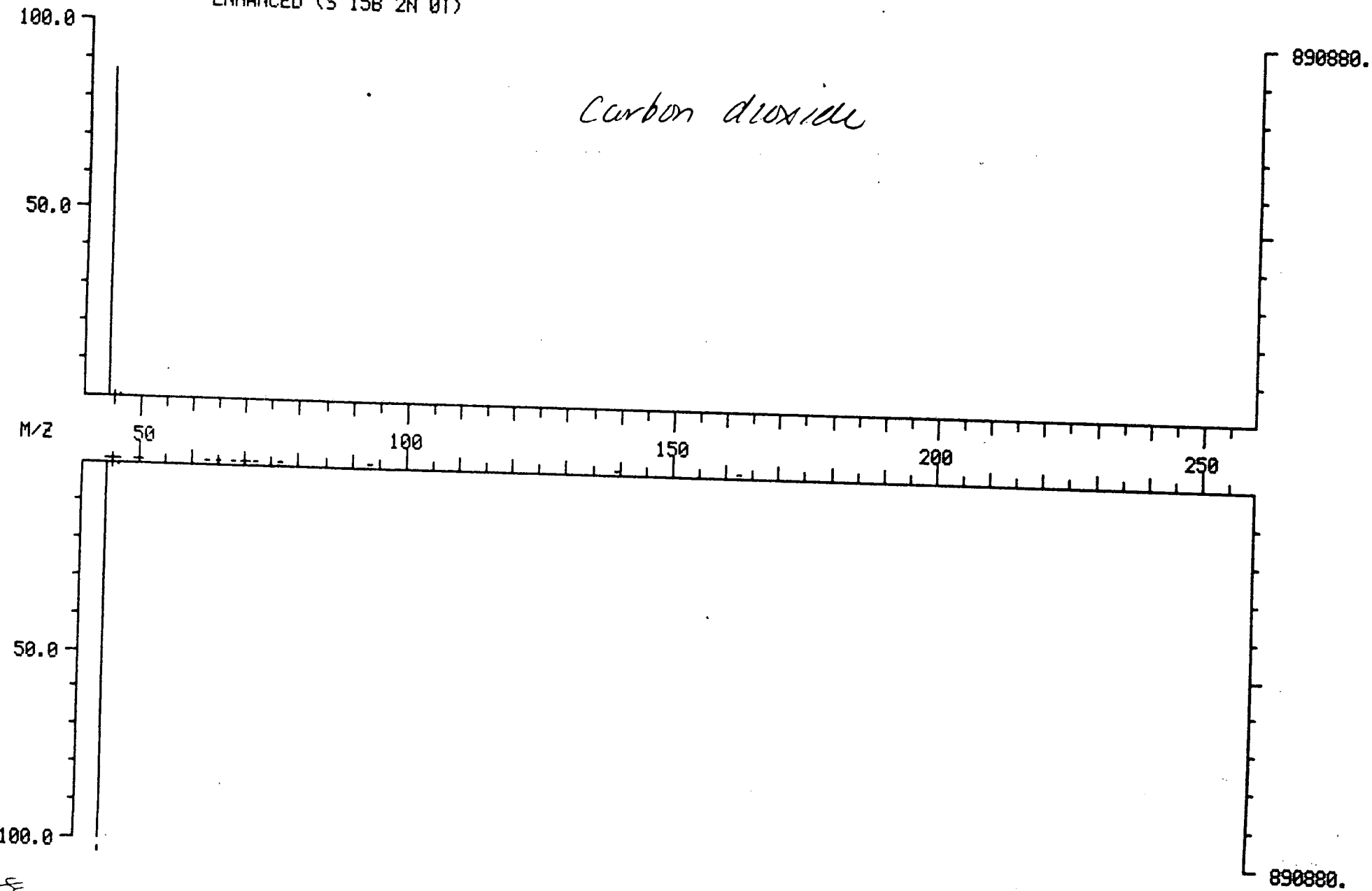
BASE M/Z: 44
RIC: 14079.



DUAL MASS SPECTRUM
08/28/87 19:03:00 + 0:45
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 #15
CALI: PU7440 #2

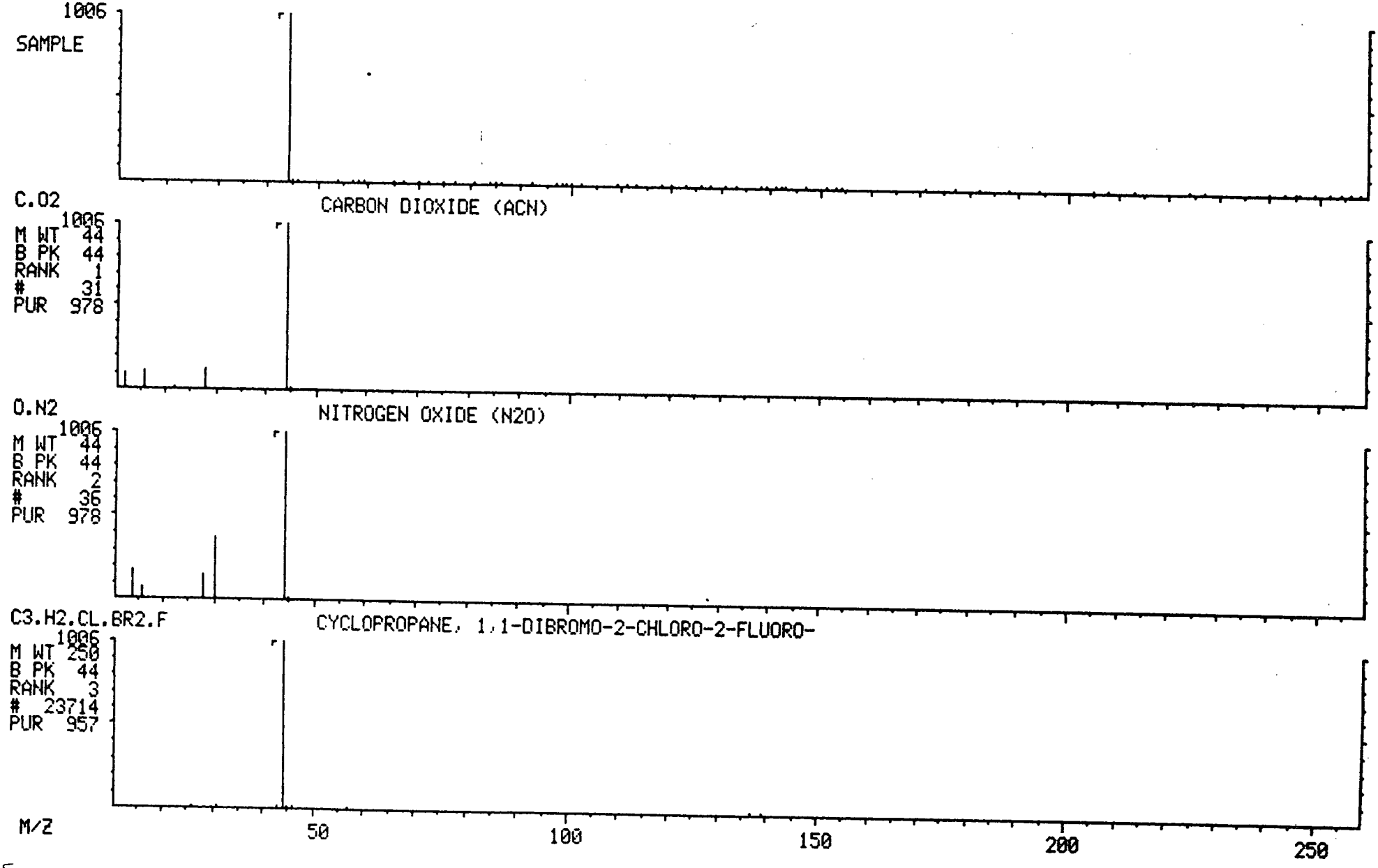
BASE M/Z: 44/ 44
RIC: 788479./ 909311.



LIBRARY SEARCH
08/28/87 19:03:00 + 0:45
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 # 15
CALI: PU7440 # 2

BASE M/Z: 44
RIC: 788479.

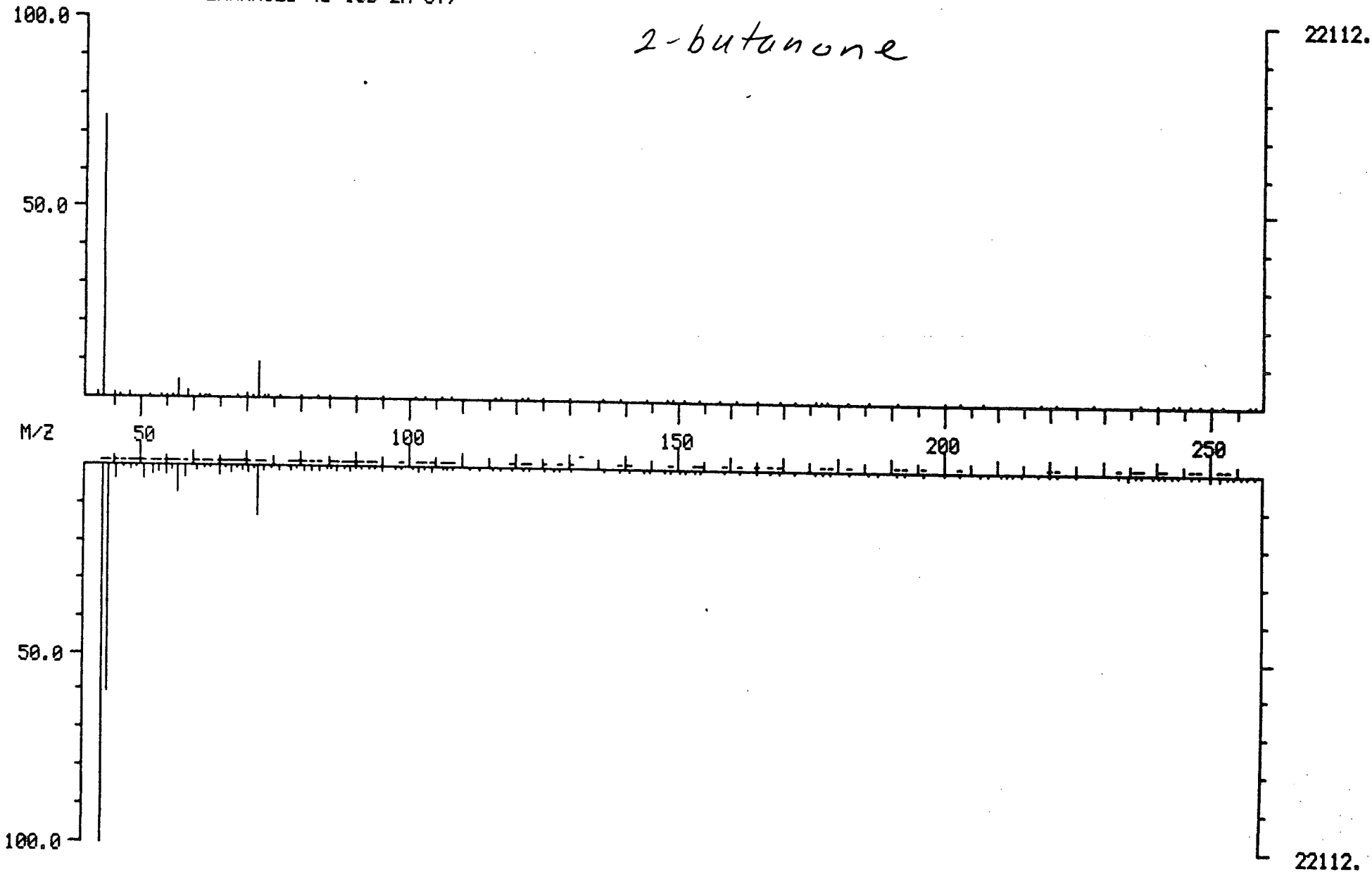


DUAL MASS SPECTRUM
08/28/87 19:03:00 + 11:24
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 #228
CALI: PU7440 #2

BASE M/Z: 43/ 43
RIC: 29279./ 61311.

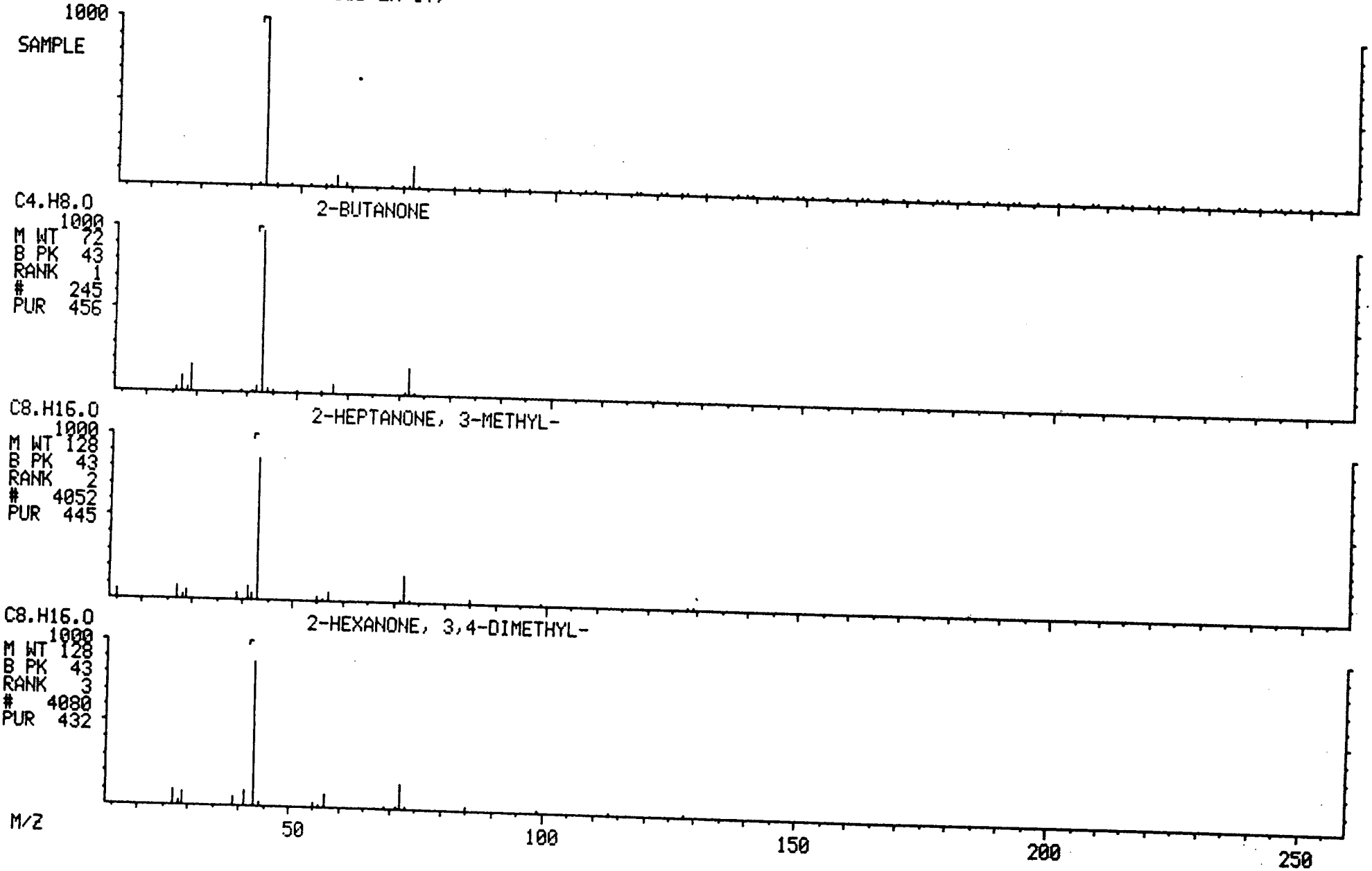
2-butanone



LIBRARY SEARCH
08/28/87 19:03:00 + 11:24
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H20
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 # 228
CALI: PU7440 # 2

BASE M/Z: 43
RIC: 27839.

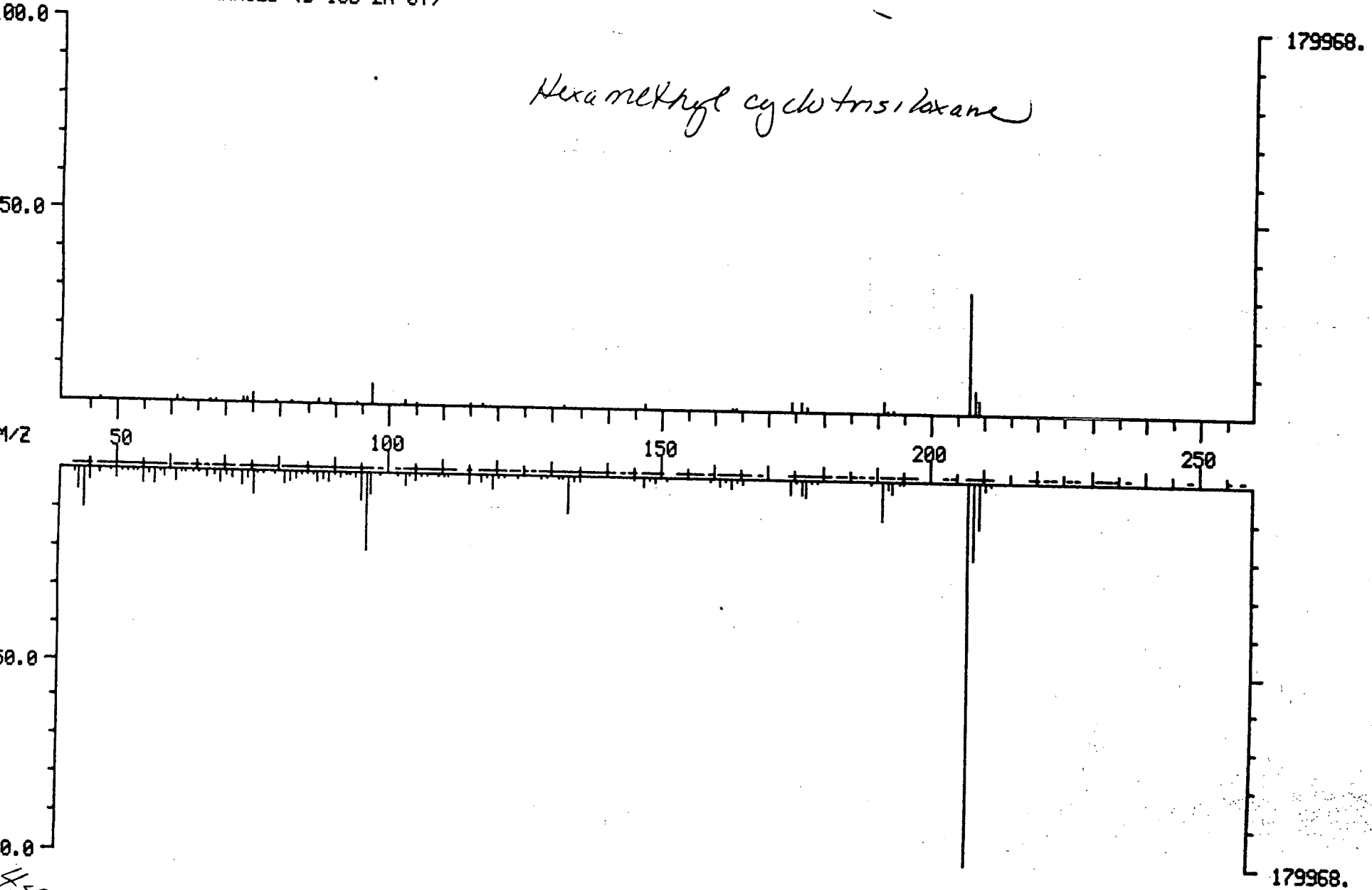


DUAL MASS SPECTRUM
08/28/87 19:03:00 + 32:18
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 #646
CALI: PU7440 #2

BASE M/Z: 207/ 207
RIC: 142847./ 596991.

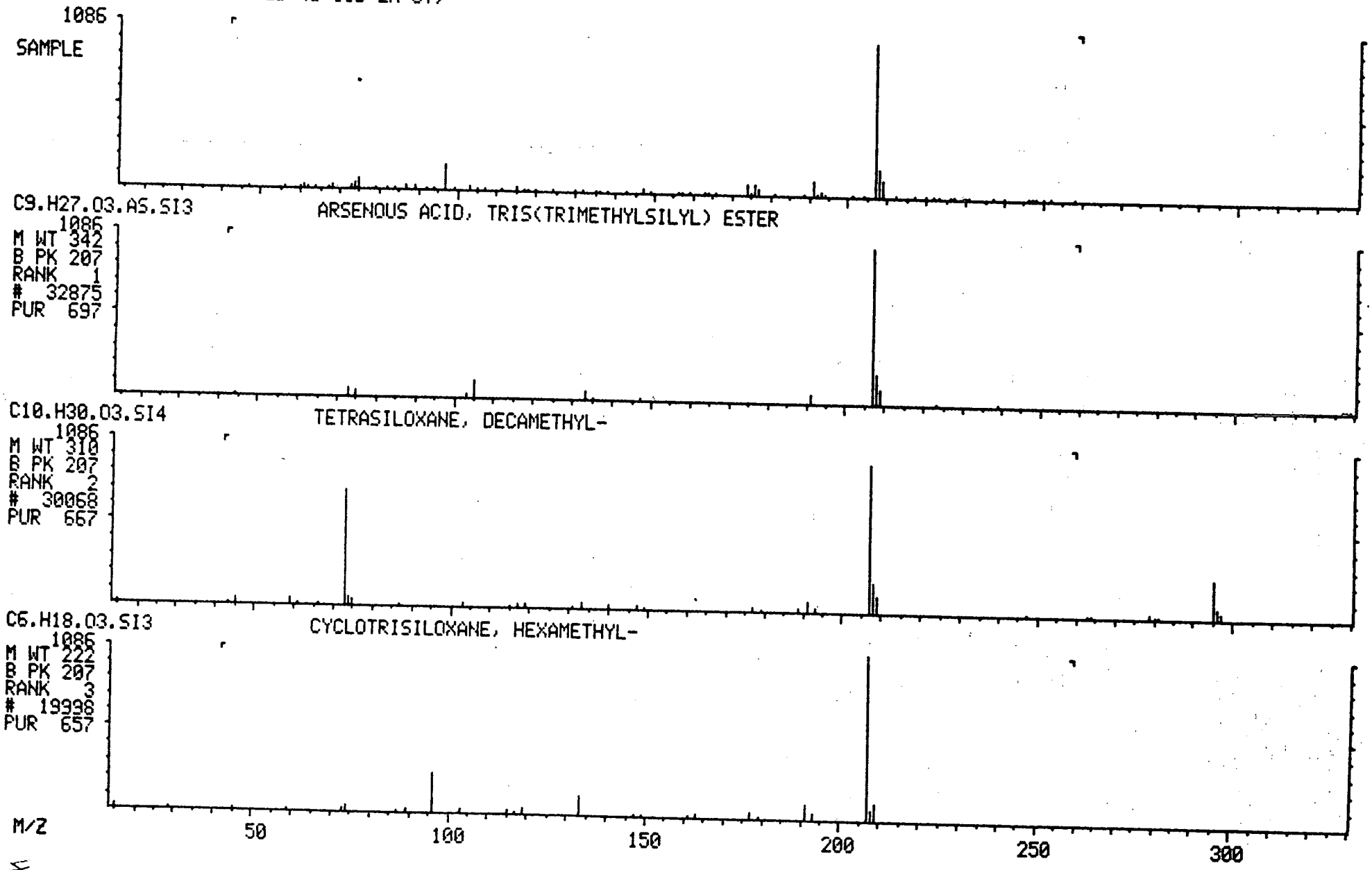
Hexamethyl cyclotrisiloxane



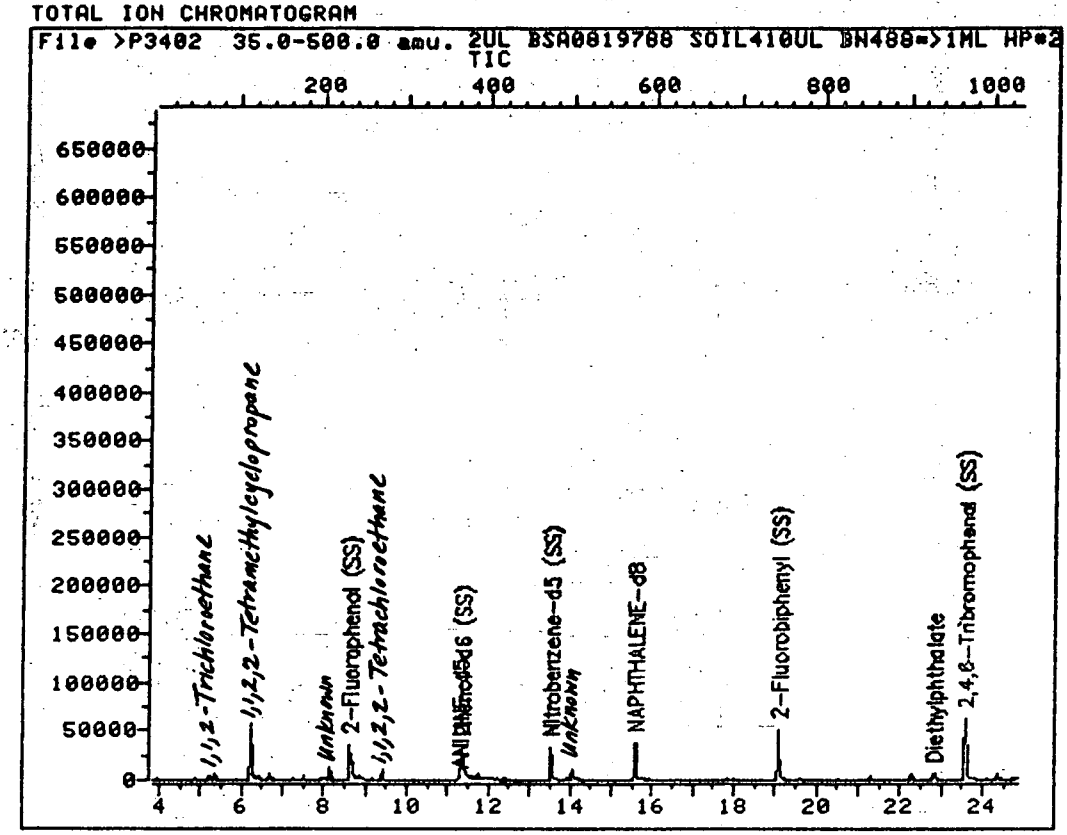
LIBRARY SEARCH
08/28/87 19:03:00 + 32:18
SAMPLE: 100UL #BSA 0819788(0.6179GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7440 # 646
CALI: PU7440 # 2

BASE M/Z: 207
RIC: 140799.



TOTAL ION CHROMATOGRAM



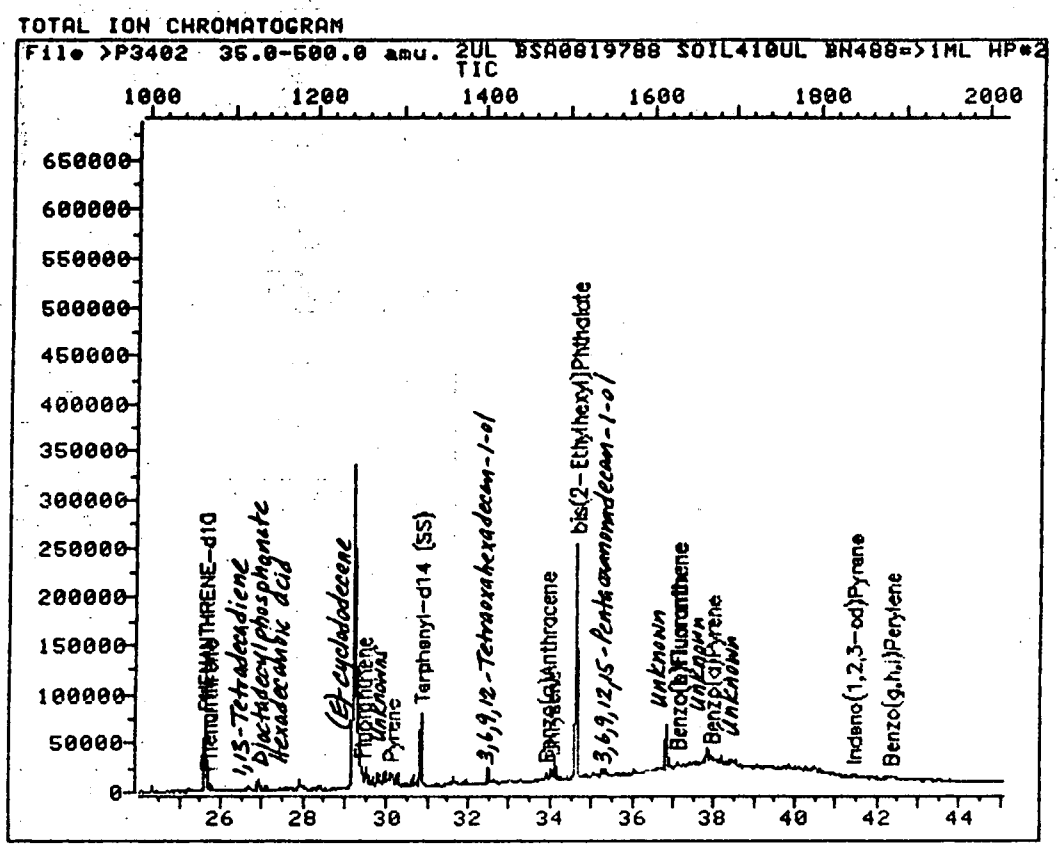
Data File: >P3402::B1 Quant Output File: ^P3402::QT
Name: 2UL BSA0819788 SOIL4
Misc: 10UL BN488=>1ML HP#2 579881 BNA BTL#57

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

Operator ID: GLENN
Quant Time: 870910 22:11
Injected at: 870910 21:24

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >P3402::B1 Quant Output File: ^P3402::QT
Name: 2UL BSA0819788 SOIL4
Misc: 10UL BN488=>1ML HP#2 579881 BNA BTL#57

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

Operator ID: GLENN
Quant Time: 870910 22:11
Injected at: 870910 21:24

TIC page 2 of 2

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 870910 22:11
Output File: ^P3402::QT Injected at: 870910 21:24
Data File: >P3402::B1 Dilution Factor: 1.00000
Name: 2UL BSA0819788 SOIL4
Misc: 10UL BN488=>1ML HP#2 579881 BNA BTL#57

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.29	366	1756M	42.85	ug/mL	
3)	2-Fluorophenol (SS)	8.62	235	33593	1157.61	ug/mL	52
6)	Phenol-d6 (SS)	11.35	369	57191	1298.41	ug/mL	86
14)	*NAPHTHALENE-d8	15.58	577	53019	41.04	ug/mL	59
15)	Nitrobenzene-d5 (SS)	13.53	476	28146	36.71	ug/mL	78
29)	2-Fluorobiphenyl (SS)	19.09	749	44200	55.98	ug/mL	98
37)	Diethylphthalate	22.82	932	4902	3.69	ug/mL	96
40)	2,4,6-Tribromophenol (SS)	23.57	969	27236	119.39	ug/mL	82
41)	*PHENANTHRENE-d10	25.63	1070	69833	41.02	ug/mL	73
47)	Phenanthrene	25.69	1073	4619	2.20	ug/mL	50
50)	Fluoranthene	29.43	1256	12215	6.89	ug/mL	85
51)	Terphenyl-d14 (SS)	30.84	1325	80793	72.38	ug/mL	40
53)	Pyrene	30.10	1289	11017	6.18	ug/mL	63
56)	Benzo(a)Anthracene	33.91	1475	5967	4.18	ug/mL	75
57)	bis(2-Ethylhexyl)Phthalate	34.64	1511	160757	98.63	ug/mL	88
58)	Chrysene	34.03	1481	6557	4.84	ug/mL	99
60)	Benzo(b)Fluoranthene	37.10	1631	6238M	4.13	ug/mL	93
61)	Benzo(k)Fluoranthene	37.13	1632	4626M	4.63	ug/mL	92
62)	Benzo(a)Pyrene	37.95	1672	4809	3.13	ug/mL	89
63)	Indeno(1,2,3-cd)Pyrene	41.43	1842	3406	2.24	ug/mL	80
65)	Benzo(g,h,i)Perylene	42.34	1886	3117	2.41	ug/mL	82

* Compound is ISTD

MS data file header from : >P3402

Sample: 2UL BSA0819788 SOIL4 Operator: GLENN MS 9/10/87 21:24
Misc : 10UL BN488=>1ML HP#2 579881 BNA BTL#57
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

>P3402 2UL BSA0819788 SOIL410UL BN488=>1ML HP#2 579881 BNA
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 12594. Max Peaks: 20 Bunching: 1
Dnslope: 0.00 Results File IP3402 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	5.36	74	75	83	6450	18531	16626	1.90	.982
2	6.23	116	118	126	57034	147165	145893	16.64	8.617
3	8.15	210	212	215	12084	26645	25111	2.86	1.483
4	9.41	271	274	280	9806	25469	22377	2.55	1.322
5	14.06	500	502	513	9473	47364	37236	4.25	2.199
6	22.27	901	905	910	5667	21496	18943	2.16	1.119
7	26.67	1117	1121	1129	5032	50720	30117	3.43	1.779
8	26.92	1129	1133	1140	10599	69243	46630	5.32	2.754
9	27.92	1177	1182	1184	10374	55883	37323	4.26	2.205
10	29.22	1242	1246	1247	325426	935075	876862	100.00	51.794
11	29.79	1270	1274	1277	13408	113421	51563	5.88	3.046
12	29.96	1279	1282	1284	13717	90034	45467	5.19	2.686
13	31.61	1360	1363	1371	8059	146917	41655	4.75	2.460
14	31.92	1375	1378	1381	5746	79005	18747	2.14	1.107
15	32.47	1403	1405	1407	16072	89686	43986	5.02	2.598
16	35.26	1539	1541	1543	7130	103251	18801	2.14	1.111
17	35.34	1543	1545	1549	6410	148437	22586	2.58	1.334
18	36.84	1615	1618	1622	46779	322917	131911	15.04	7.792
19	37.84	1665	1667	1669	13363	191533	38344	4.37	2.265
20	38.17	1681	1683	1687	7639	240387	22815	2.60	1.348

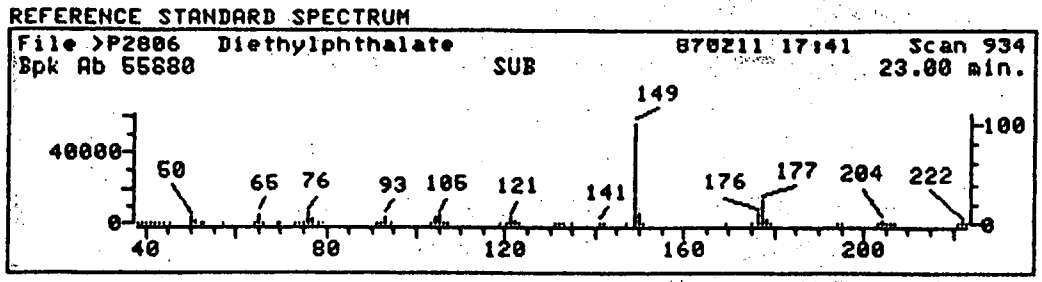
Sum of corrected areas: 1692993.

Summary of Unknowns PBM Library Search and Quantitation

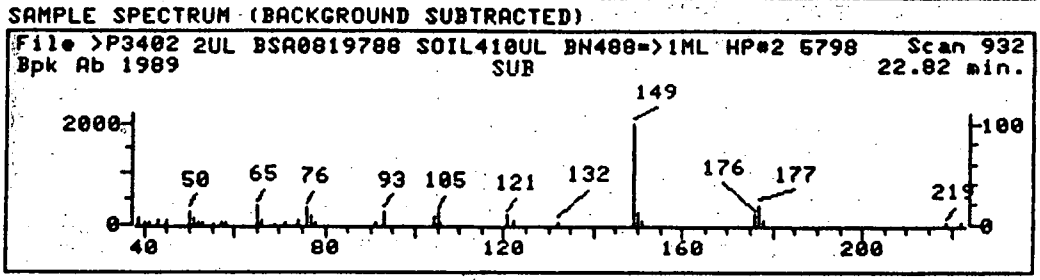
Standard	Concentration	Area	Retention Time	Unknown Window
2	41.0	125941.	15.58	7.79 - 20.61
3	41.0	218988.	25.63	20.61 - 45.06

Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 0.00 Amount Used (AU) = 0.00

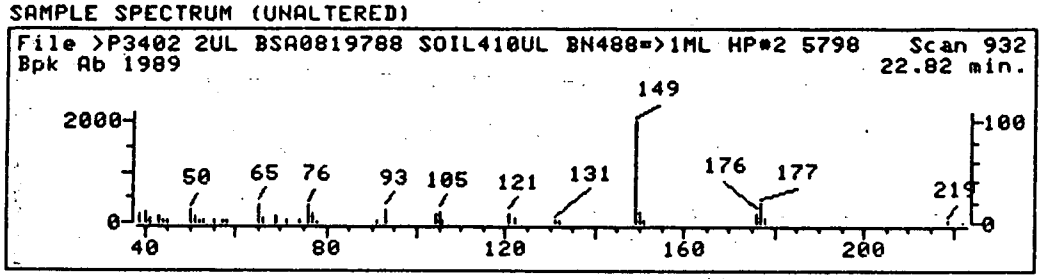
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



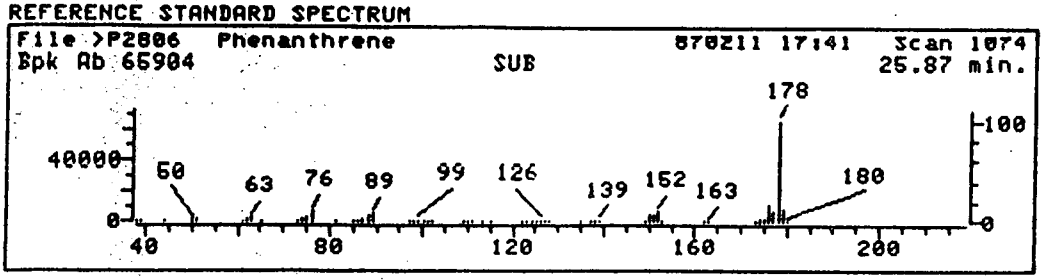
SAMPLE SPECTRUM (UNALTERED)



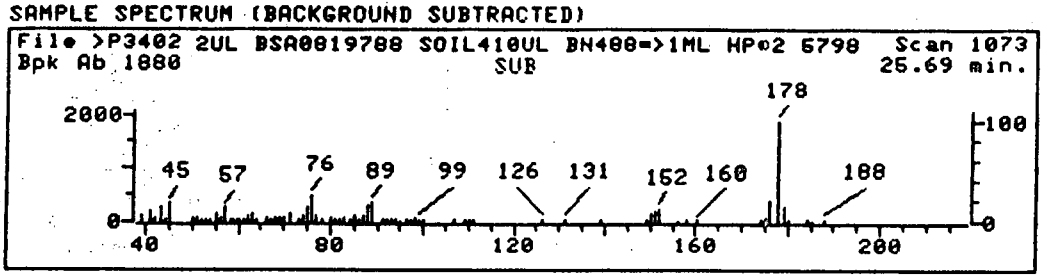
Data File: >P3402::B1 Quant Output File: ^P3402::QT
Name: 2UL BSA0819788 SOIL4
Misc: 10UL BN488=>1ML HP#2 579881 BNA BTL#57
Quant Time: 870910 22:11 Quant ID File: ID_625::ME
Injected at: 870910 21:24 Last Calibration: 870910 15:35

Compound No: 37
Compound Name: Diethylphthalate
Scan Number: 932
Retention Time: 22.82 min.
Quant Ion: 149.0
Area: 4902
Concentration: 3.69 ug/mL
q-value: 96

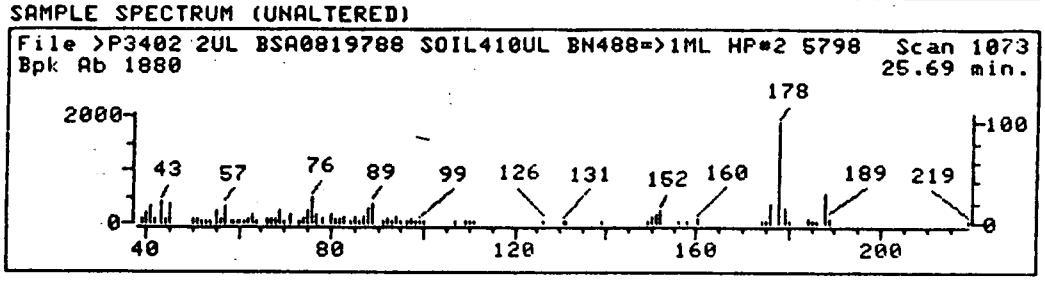
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



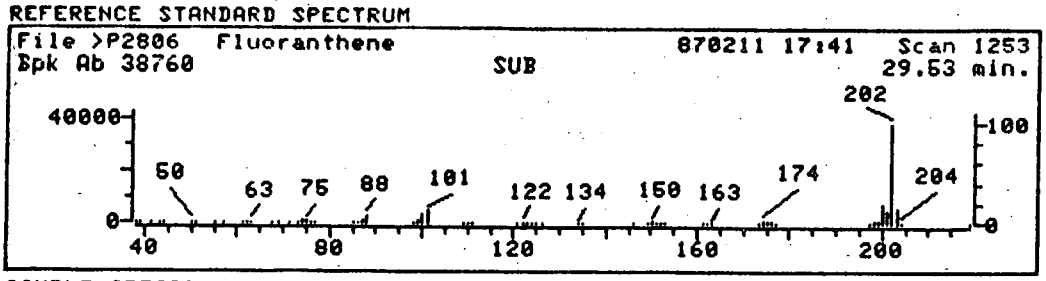
SAMPLE SPECTRUM (UNALTERED)



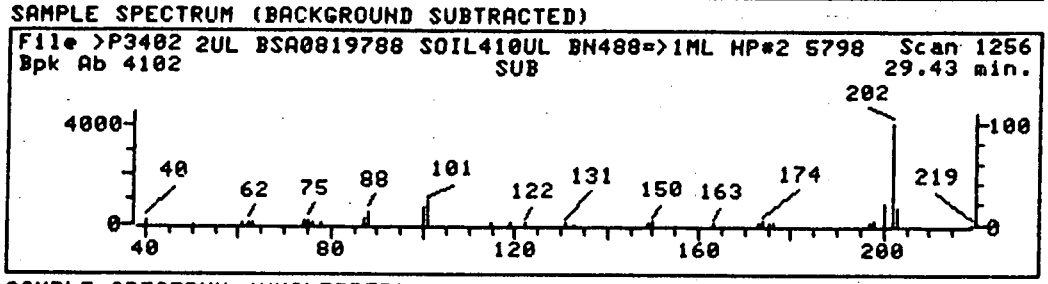
Data File: >P3402::B1 Quant Output File: ^P3402::QT
Name: 2UL BSA0819788 SOIL4
Misc: 10UL BN488=>1ML HP#2 579881 BNA BTL#57
Quant Time: 870910 22:11 Quant ID File: ID_625::ME
Injected at: 870910 21:24 Last Calibration: 870910 15:35

Compound No: 47
Compound Name: Phenanthrene
Scan Number: 1073
Retention Time: 25.69 min.
Quant Ion: 178.0
Area: 4619
Concentration: 2.20 ug/mL
q-value: 50

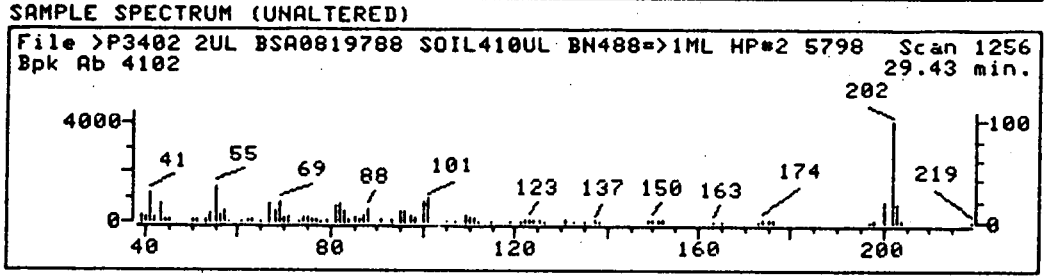
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



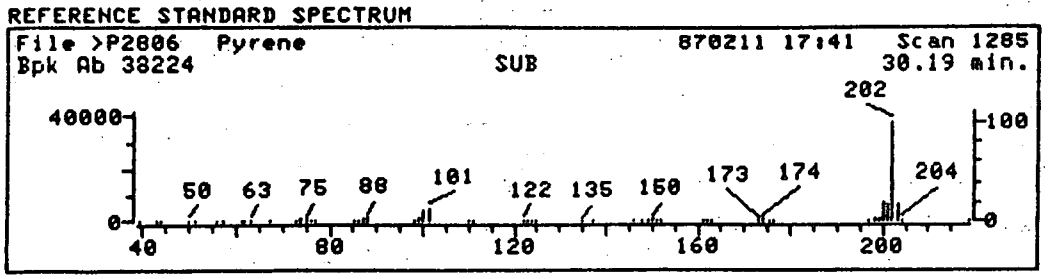
SAMPLE SPECTRUM (UNALTERED)



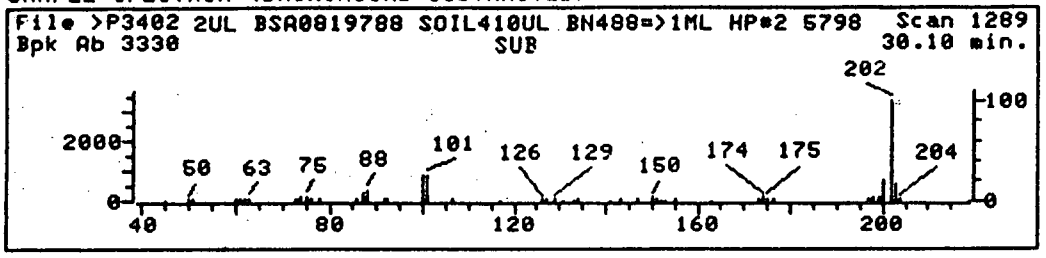
Data File: >P3402::B1 Quant Output File: ^P3402::QT
Name: 2UL BSA0819788 SOIL4
Misc: 10UL BN488=>1ML HP#2 579881 BNA BTL#57
Quant Time: 870910 22:11 Quant ID File: ID_625::ME
Injected at: 870910 21:24 Last Calibration: 870910 15:35

Compound No: 50
Compound Name: Fluoranthene
Scan Number: 1256
Retention Time: 29.43 min.
Quant Ion: 202.0
Area: 12215
Concentration: 6.89 ug/mL
q-value: 85

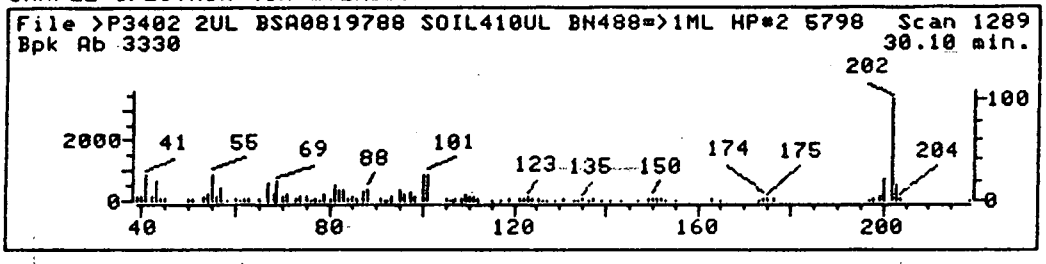
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



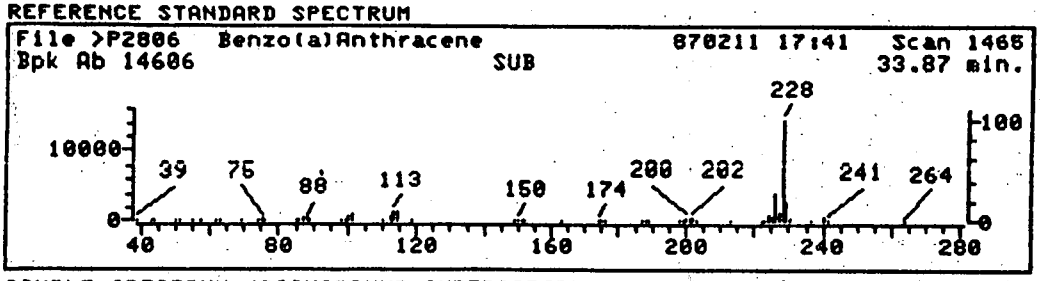
SAMPLE SPECTRUM (UNALTERED)



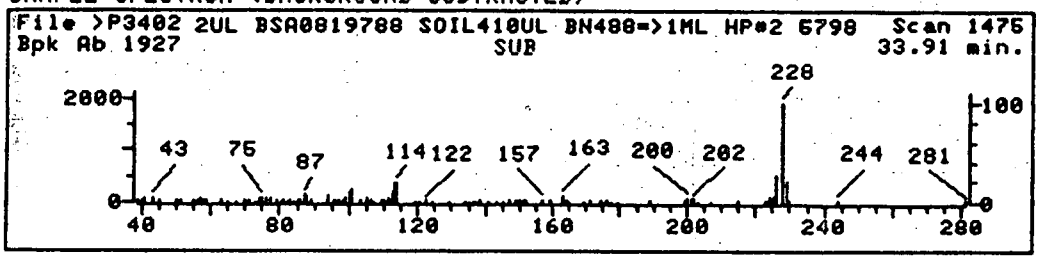
Data File: >P3402::B1 Quant Output File: ^P3402::QT
Name: 2UL BSA0819788 SOIL4
Misc: 10UL BN488=>1ML HP#2 579881 BNA BTL#57
Quant Time: 870910 22:11 Quant ID File: ID_625::ME
Injected at: 870910 21:24 Last Calibration: 870910 15:35

Compound No: 53
Compound Name: Pyrene
Scan Number: 1289
Retention Time: 30.10 min.
Quant Ion: 202.0
Area: 11017
Concentration: 6.18 ug/mL
q-value: 63

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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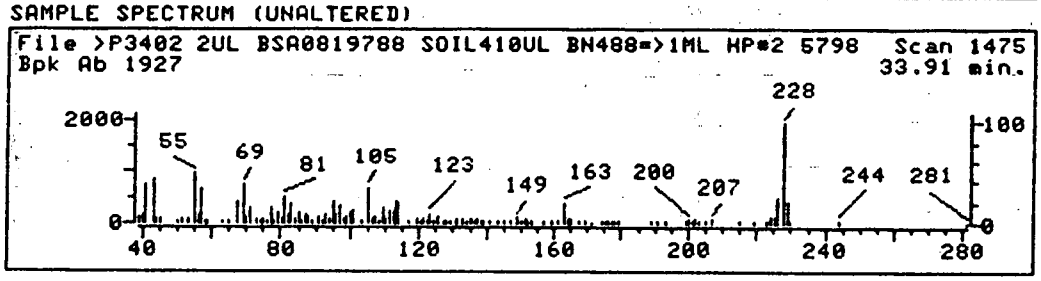
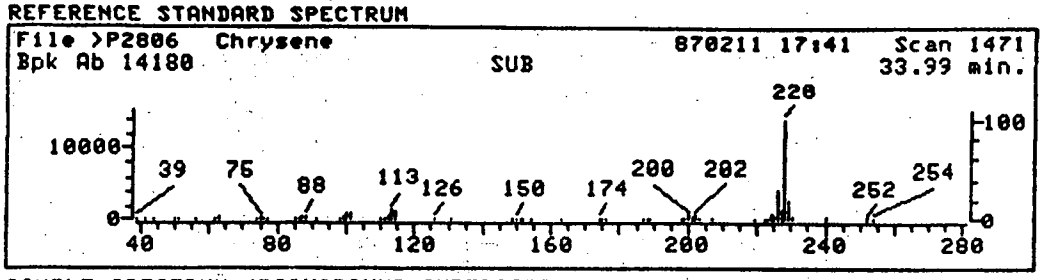


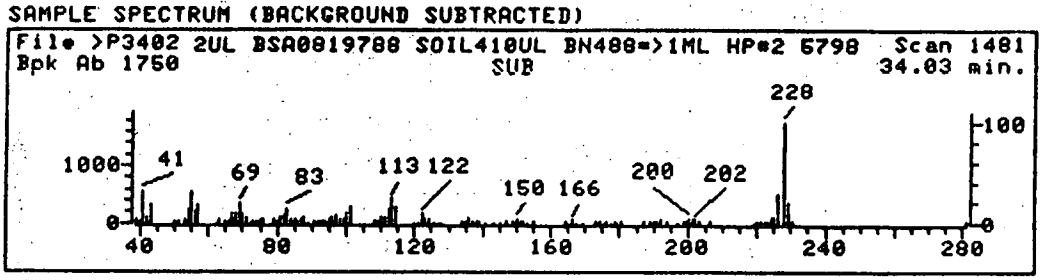
Data File: >P3402::B1 Quant Output File: ^P3402::QT
Name: 2UL BSA0819788 SOIL4
Misc: 10UL BN488=>1ML HP#2 579881 BNA BTL#57
Quant Time: 870910 22:11 Quant ID File: ID_625::ME
Injected at: 870910 21:24 Last Calibration: 870910 15:35

Compound No: 56
Compound Name: Benzo(a)Anthracene
Scan Number: 1475
Retention Time: 33.91 min.
Quant Ion: 228.0
Area: 5967
Concentration: 4.18 ug/mL
q-value: 75

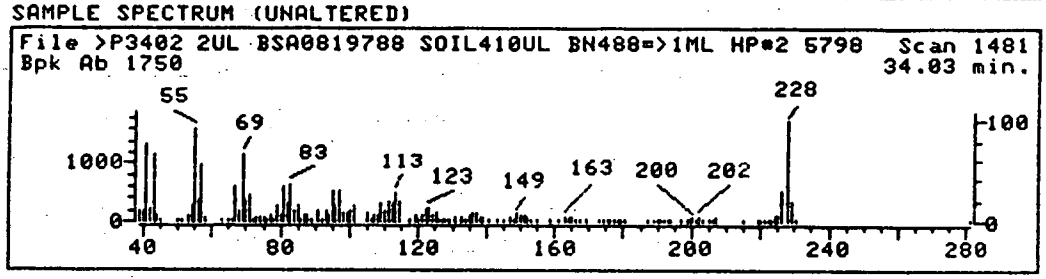
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



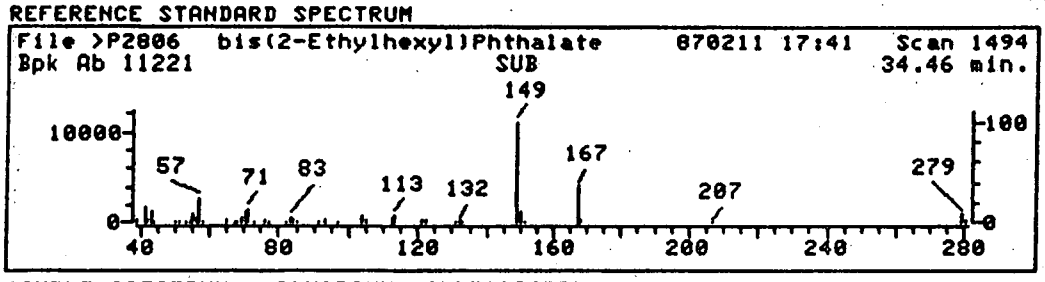
SAMPLE SPECTRUM (UNALTERED)



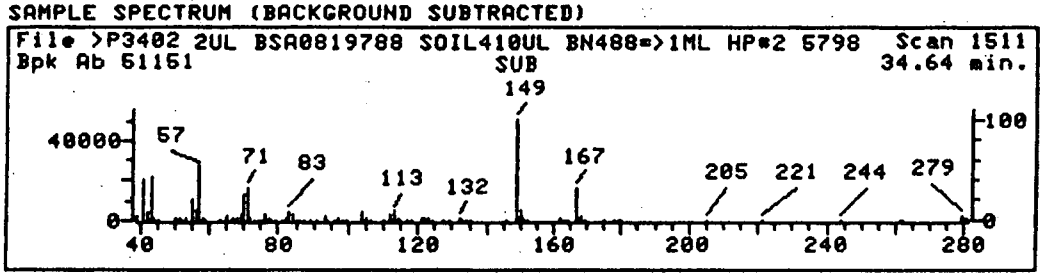
Data File: >P3402::B1 Quant Output File: ^P3402::QT
Name: 2UL BSA0819788 SOIL4
Misc: 10UL BN488=>1ML HP#2 579881 BNA BTL#57
Quant Time: 870910 22:11 Quant ID File: ID_625::ME
Injected at: 870910 21:24 Last Calibration: 870910 15:35

Compound No: 58
Compound Name: Chrysene
Scan Number: 1481
Retention Time: 34.03 min.
Quant Ion: 228.0
Area: 6557
Concentration: 4.84 ug/mL
q-value: 99

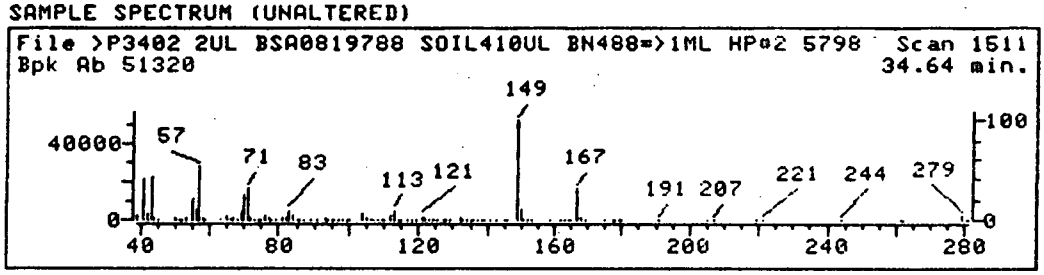
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



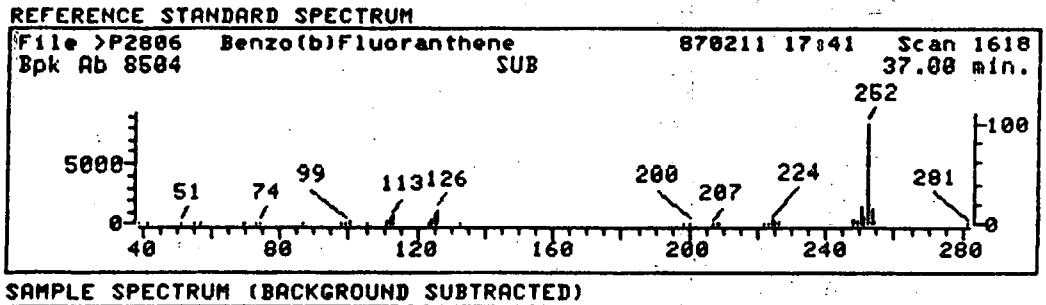
SAMPLE SPECTRUM (UNALTERED)



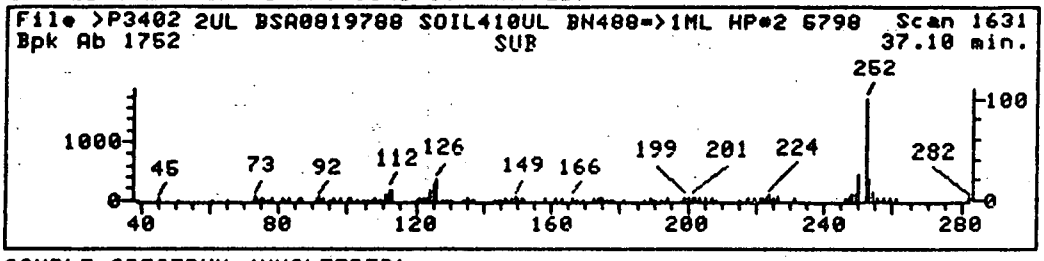
Data File: >P3402::B1 Quant Output File: ^P3402::QT
Name: 2UL BSA0819788 SOIL4
Misc: 10UL BN488=>1ML HP#2 579881 BNA BTL#57
Quant Time: 870910 22:11 Quant ID File: ID_625::ME
Injected at: 870910 21:24 Last Calibration: 870910 15:35

Compound No: 57
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1511
Retention Time: 34.64 min.
Quant Ion: 149.0
Area: 160757
Concentration: 98.63 ug/mL
q-value: 88

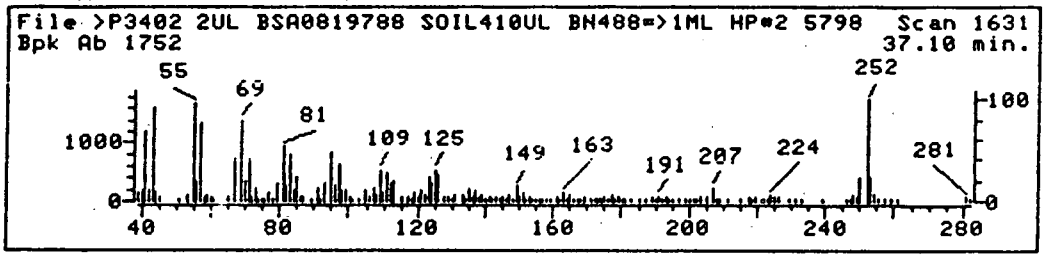
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



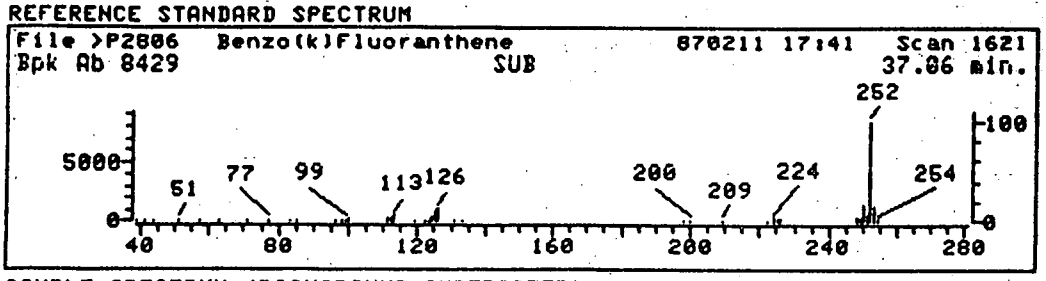
SAMPLE SPECTRUM (UNALTERED)



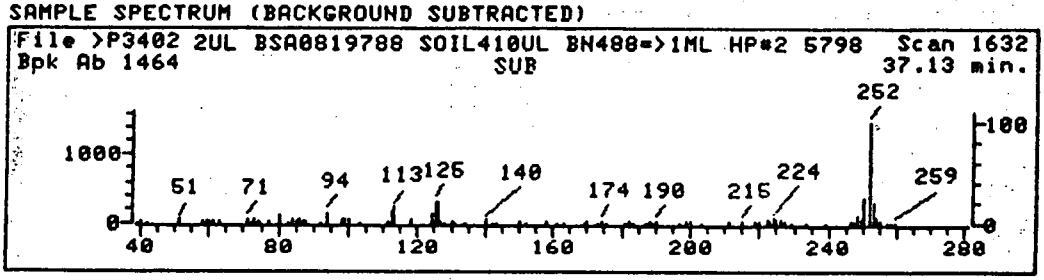
Data File: >P3402::B1 Quant Output File: ^P3402::QT
Name: 2UL BSA0819788 SOIL4
Misc: 10UL BN488=>1ML HP#2 579881 BNA BTL#57
Quant Time: 870910 22:11 Quant ID File: ID_625::ME
Injected at: 870910 21:24 Last Calibration: 870910 15:35

Compound No: 60
Compound Name: Benzo(b)Fluoranthene
Scan Number: 1631
Retention Time: 37.10 min.
Quant Ion: 252.0
Area: 6238M
Concentration: 4.13 ug/mL
q-value: 93

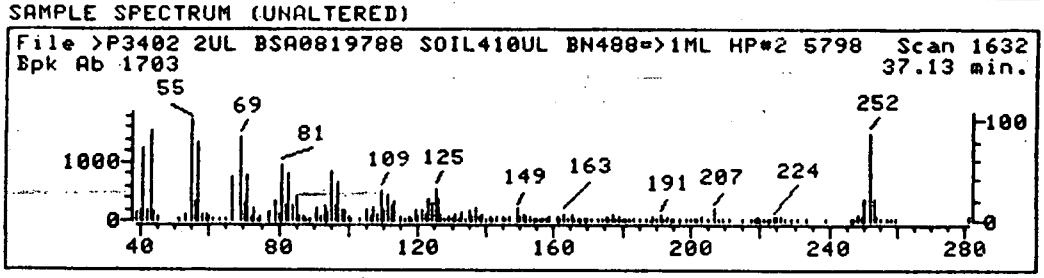
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



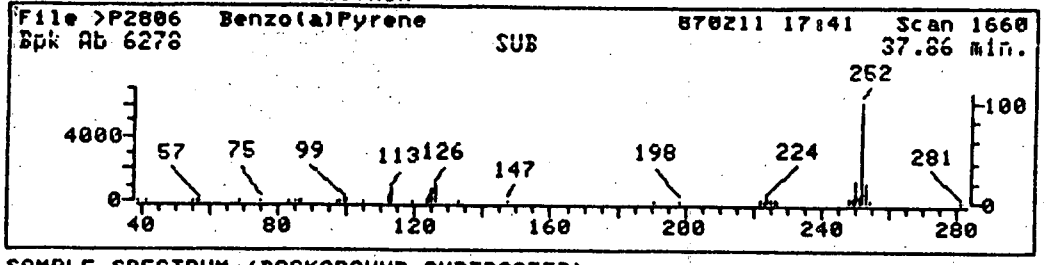
SAMPLE SPECTRUM (UNALTERED)



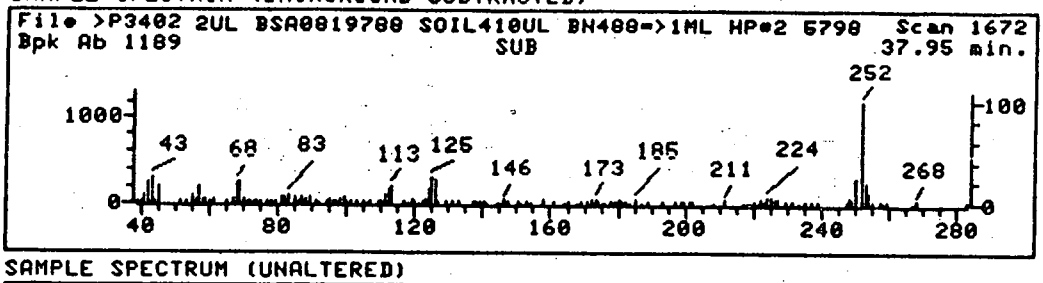
Data File: >P3402::B1 Quant Output File: ^P3402::QT
Name: 2UL BSA0819788 SOIL4
Misc: 10UL BN488=>1ML HP#2 579881 BNA BTL#57
Quant Time: 870910 22:11 Quant ID File: ID_625::ME
Injected at: 870910 21:24 Last Calibration: 870910 15:35

Compound No: 61
Compound Name: Benzo(k)Fluoranthene
Scan Number: 1632
Retention Time: 37.13 min.
Quant Ion: 252.0
Area: 4626M
Concentration: 4.63 ug/mL
q-value: 92

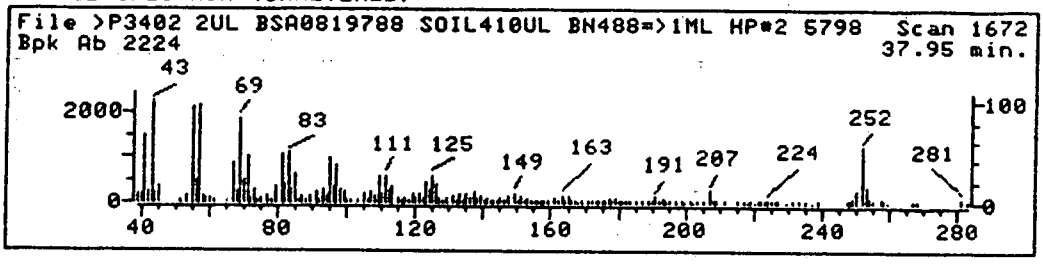
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



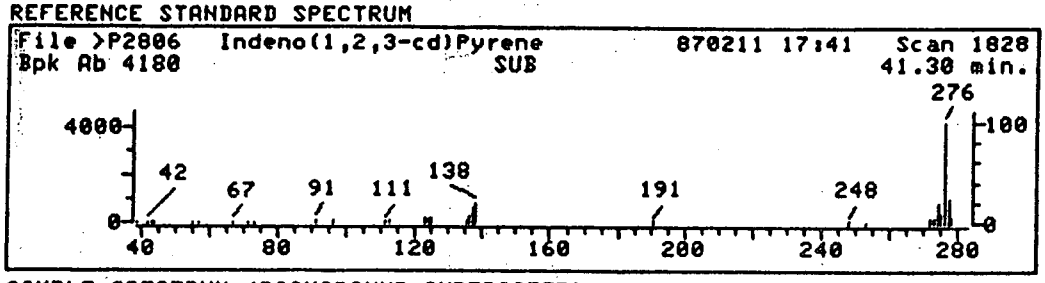
SAMPLE SPECTRUM (UNALTERED)



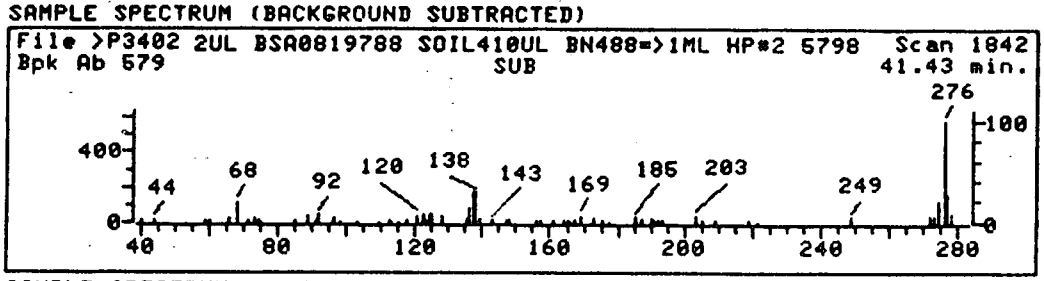
Data File: >P3402::B1 Quant Output File: ^P3402::QT
Name: 2UL BSA0819788 SOIL4
Misc: 10UL BN488=>1ML HP#2 579881 BNA BTL#57
Quant Time: 870910 22:11 Quant ID File: ID_625::ME
Injected at: 870910 21:24 Last Calibration: 870910 15:35

Compound No: 62
Compound Name: Benzo(a)Pyrene
Scan Number: 1672
Retention Time: 37.95 min.
Quant Ion: 252.0
Area: 4809
Concentration: 3.13 ug/mL
q-value: 89

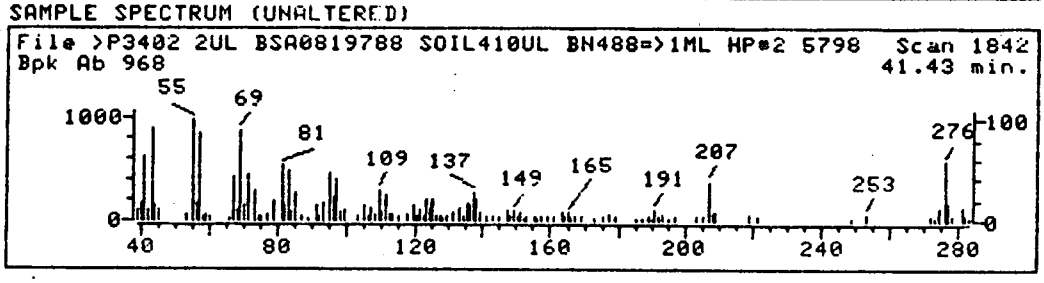
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



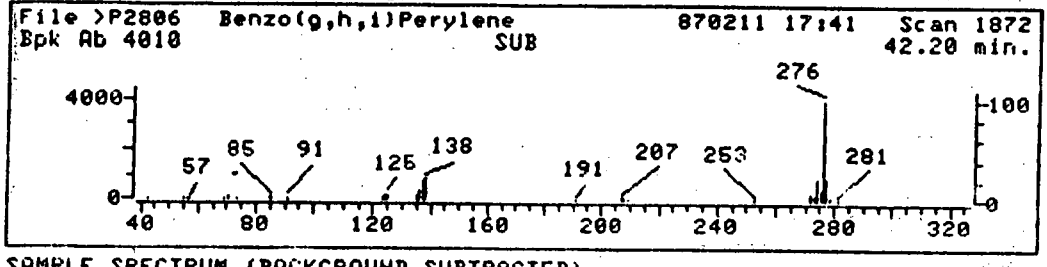
SAMPLE SPECTRUM (UNALTERED)



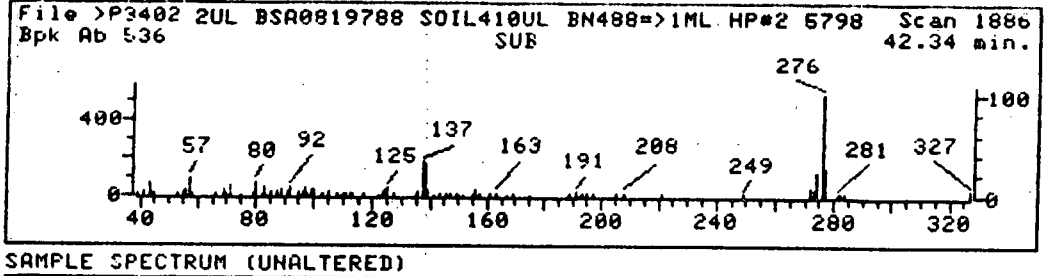
Data File: >P3402::B1 Quant Output File: ^P3402::QT
Name: 2UL BSA0819788 SOIL4
Misc: 10UL BN488=>1ML HP#2 579881 BNA BTL#57
Quant Time: 870910 22:11 Quant ID File: ID_625::ME
Injected at: 870910 21:24 Last Calibration: 870910 15:35

Compound No: 63
Compound Name: Indeno(1,2,3-cd)Pyrene
Scan Number: 1842
Retention Time: 41.43 min.
Quant Ion: 276.0
Area: 3406
Concentration: 2.24 ug/mL
q-value: 80

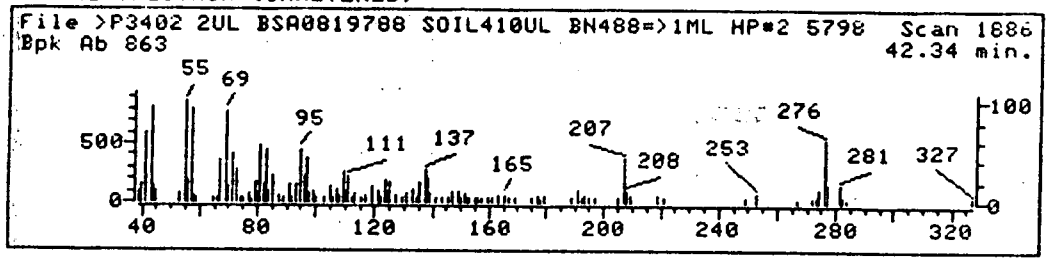
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

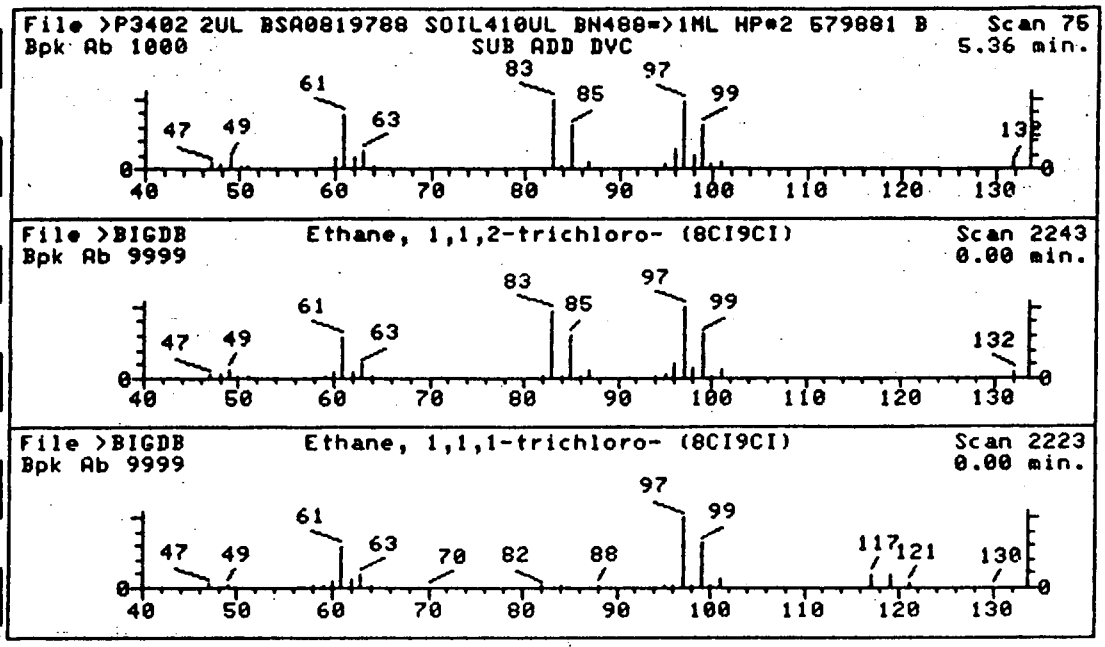


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3402::B1 Quant Output File: ^P3402::QT
Name: 2UL BSA0819788 SOIL4
Misc: 10UL BN488=>1ML HP#2 579881 BNA BTL#57
Quant Time: 870910 22:11 Quant ID File: ID_625::ME
Injected at: 870910 21:24 Last Calibration: 870910 15:35

Compound No: 65
Compound Name: Benzo(g,h,i)Perylene
Scan Number: 1886
Retention Time: 42.34 min.
Quant Ion: 276.0
Area: 3117
Concentration: 2.41 ug/mL
q-value: 82

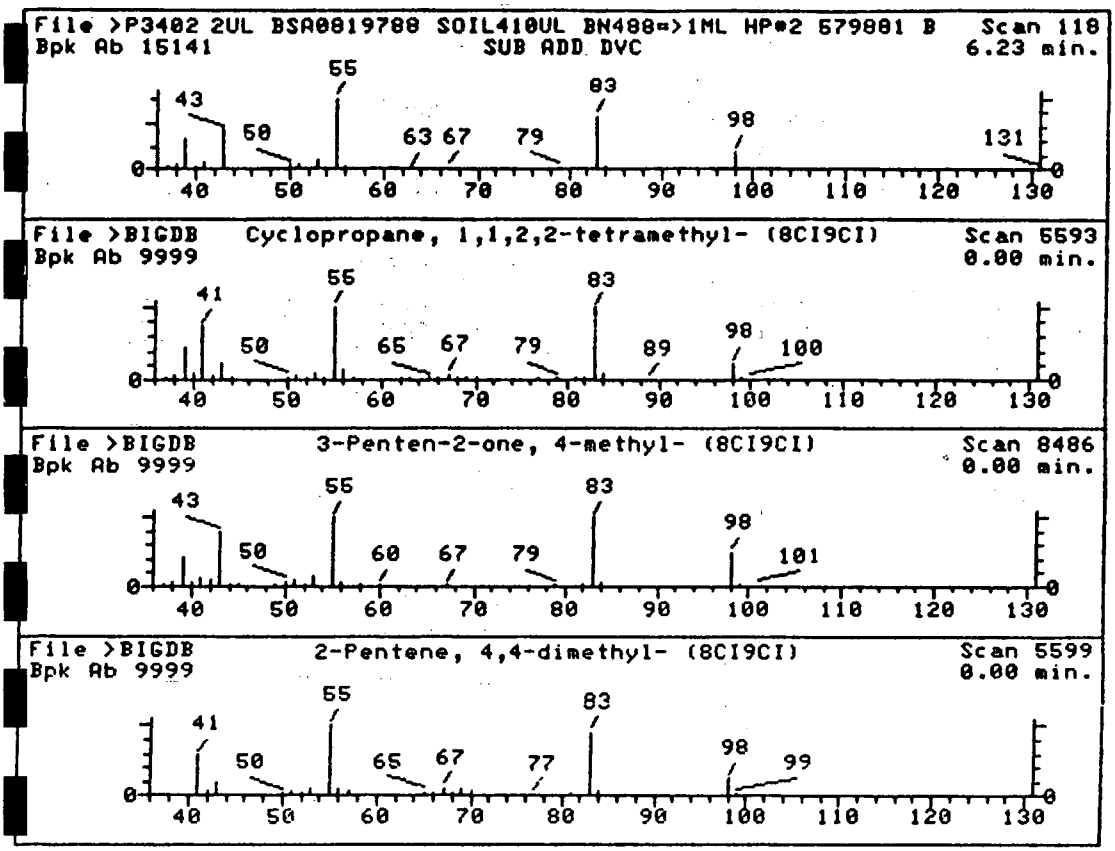


. Unknown #,1
Area = 16626.00 Tentative Concentration is .00E+00

1. Ethane, 1,1,2-trichloro- (8CI9CI) 132 C2H3Cl3
2. Ethane, 1,1,1-trichloro- (8CI9CI) 132 C2H3Cl3

Sample file: >P3402 Spectrum #: 75
Search speed: 1 Tilting option: N No. of ion ranges searched: 49

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	94*	79005	2243	"BIGDB	82	50	0	0	85	13	64	94

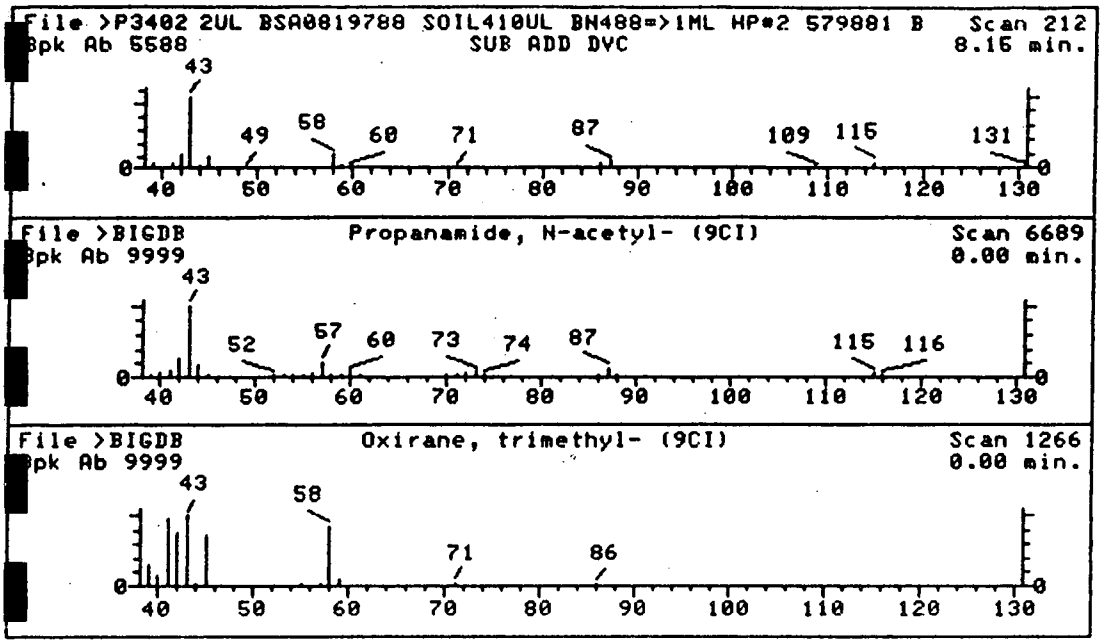


Unknown #,2
Area = 145893.0 Tentative Concentration is .00E+00

1.	Cyclopropane, 1,1,2,2-tetramethyl- (8CI9CI)	98 C7H14
2.	3-Penten-2-one, 4-methyl- (8CI9CI)	98 C6H10O
3.	2-Pentene, 4,4-dimethyl- (8CI9CI)	98 C7H14
4.	2-Pentene, 3,4-dimethyl-, (E)- (8CI9CI)	98 C7H14
5.	2-Pentene, 4,4-dimethyl-, (Z)- (8CI9CI)	98 C7H14
6.	3-Penten-2-one, 3-methyl- (8CI9CI)	98 C6H10O
7.	3-Hexen-2-one (8CI9CI)	98 C6H10O

Sample file: >P3402 Spectrum #: 118
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IN
1.	78*	4127473	5593	"BIGDB	42	55	2	0	76	5	55	18

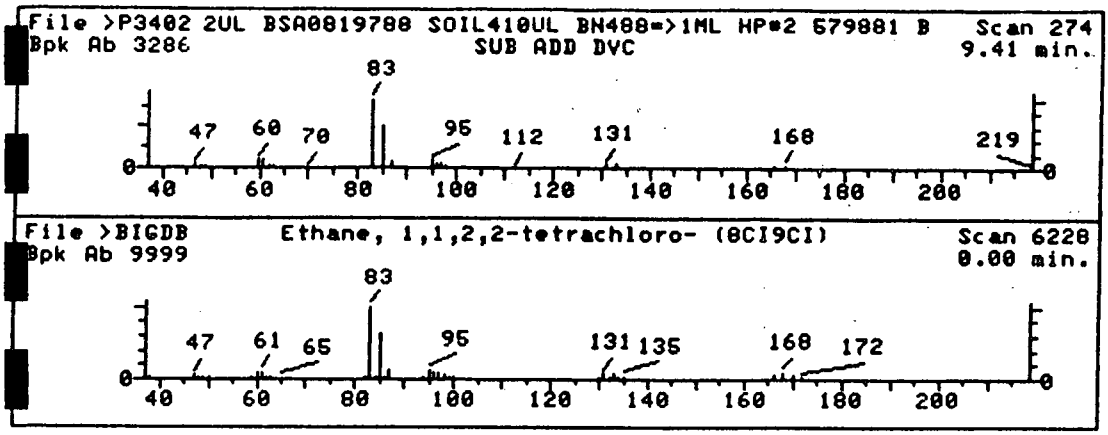


Unknown #,3
Area = 25111.00 Tentative Concentration is 8.00

1.	Propanamide, N-acetyl- (9CI)	115 C5H9NO2
2.	Oxirane, trimethyl- (9CI)	86 C5H10O

Sample file: >P3402 Spectrum #: 212
Search speed: 1 Tilting option: N No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	43*	19264347	6689	"BIGDB	24	70	2	0	75	25	17	14

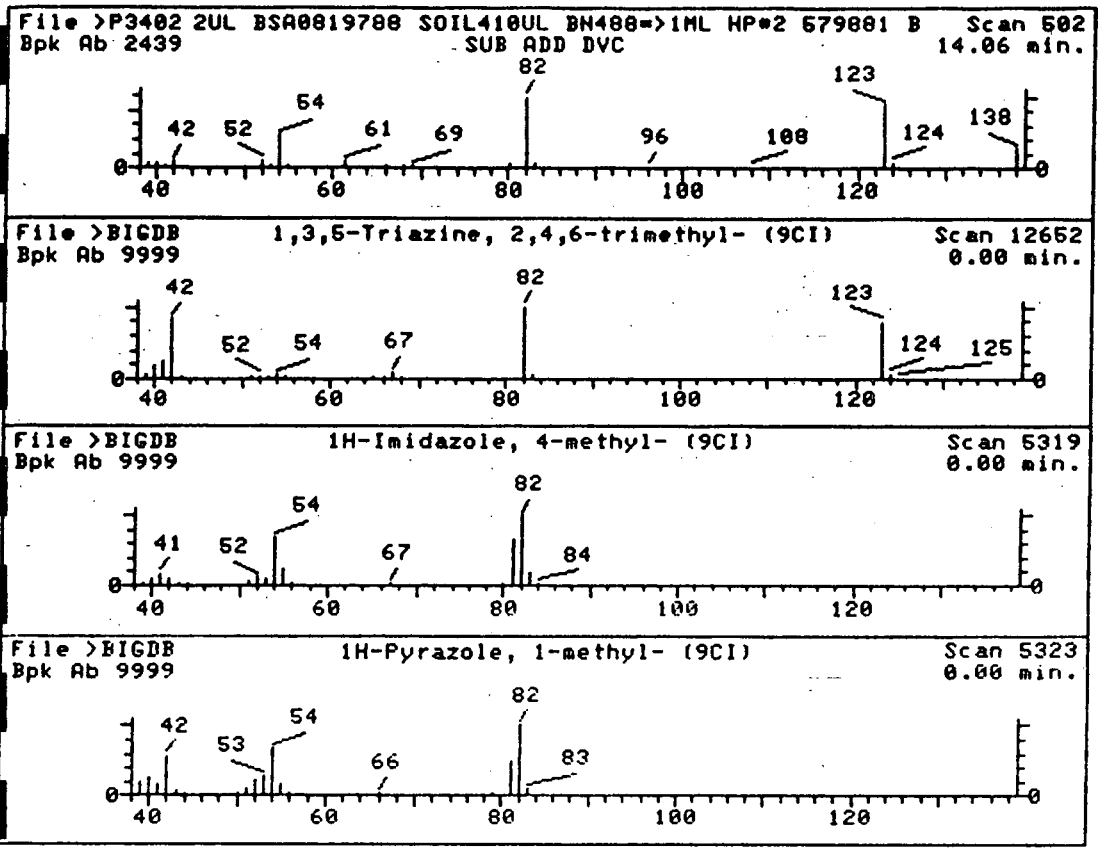


Unknown #,4
Area = 22377.00 Tentative Concentration is 7.00

1. Ethane, 1,1,2,2-tetrachloro- (8CI9CI) 166 C2H2Cl4

Sample file: >P3402 Spectrum #: 274
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	44*	79345	6228	"BIGDB	54	49	0	0	51	52	11	66

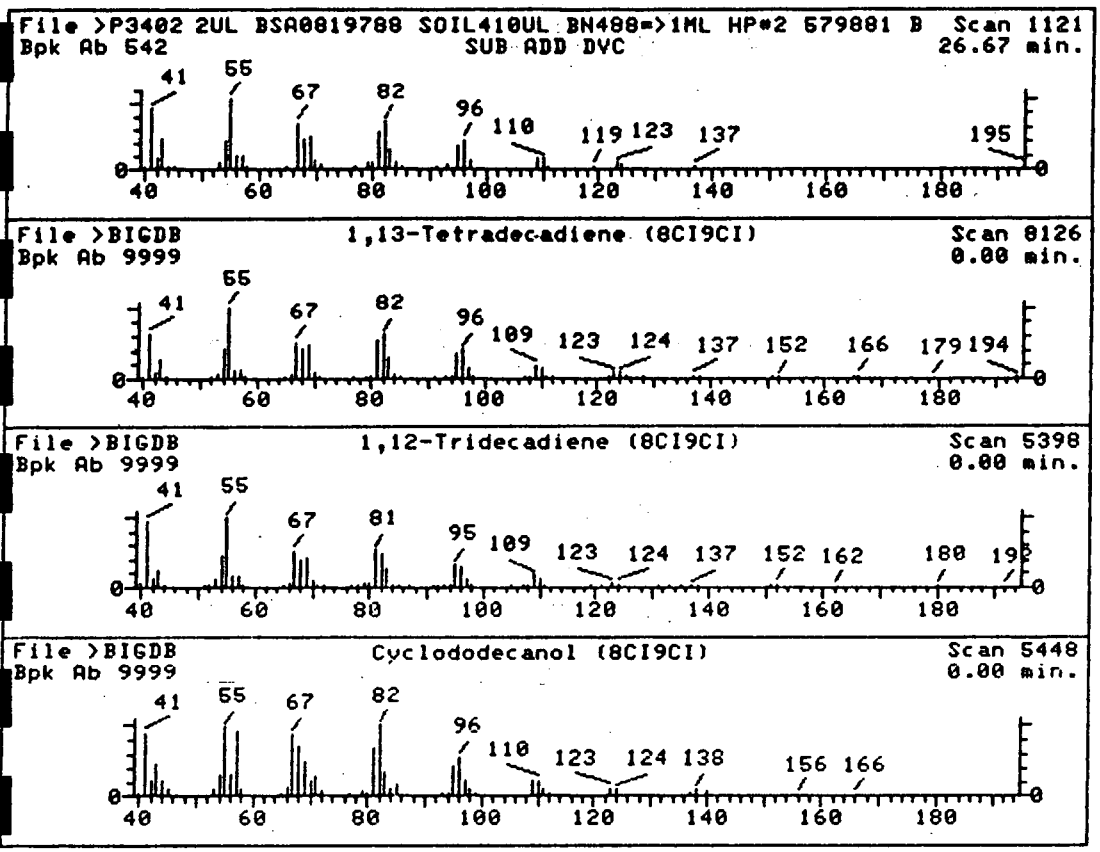


Unknown #,5
Area = 37236.00 Tentative Concentration is 12.00

1.	1,3,5-Triazine, 2,4,6-trimethyl- (9CI)	123	C6H9N3
2.	1H-Imidazole, 4-methyl- (9CI)	82	C4H6N2
3.	1H-Pyrazole, 1-methyl- (9CI)	82	C4H6N2
4.	1H-Pyrazole, 3-methyl- (9CI)	82	C4H6N2
5.	Furan, 3-pentyl- (8CI9CI)	138	C9H14O
6.	1H-Imidazole, 1-methyl- (9CI)	82	C4H6N2
7.	2-Pyrimidinamine, 4,6-dimethyl- (9CI)	123	C6H9N3

Sample file: >P3402 Spectrum #: 502
Search speed: 1 Tilting option: N No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	33*	823949	12652	"BIGDB	33	52	2	0	100	32	12	16

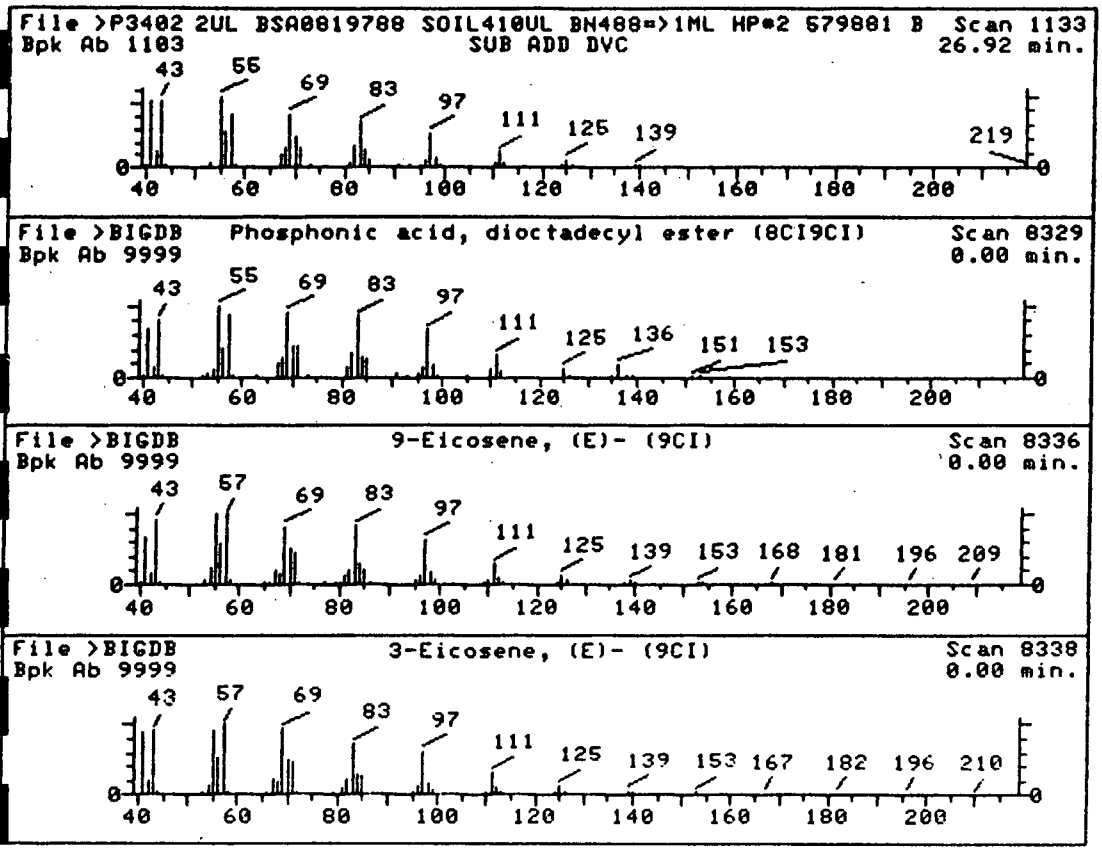


Unknown #,7
Area = 30117.00 Tentative Concentration is 6.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	1,12-Tridecadiene (8CI9CI)	180 C13H24
3.	Cyclododecanol (8CI9CI)	184 C12H24O
4.	Cyclodecanol (8CI9CI)	156 C10H20O
5.	Cyclododecene, (E)- (8CI9CI)	166 C12H22
6.	Cyclododecene, (Z)- (8CI9CI)	166 C12H22
7.	1,12-Dodecanediol (8CI9CI)	202 C12H26O2

Sample file: >P3402 Spectrum #: 1121
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	87	21964498	8126	"BIGDB	111	17	2	0	87	4	63	49

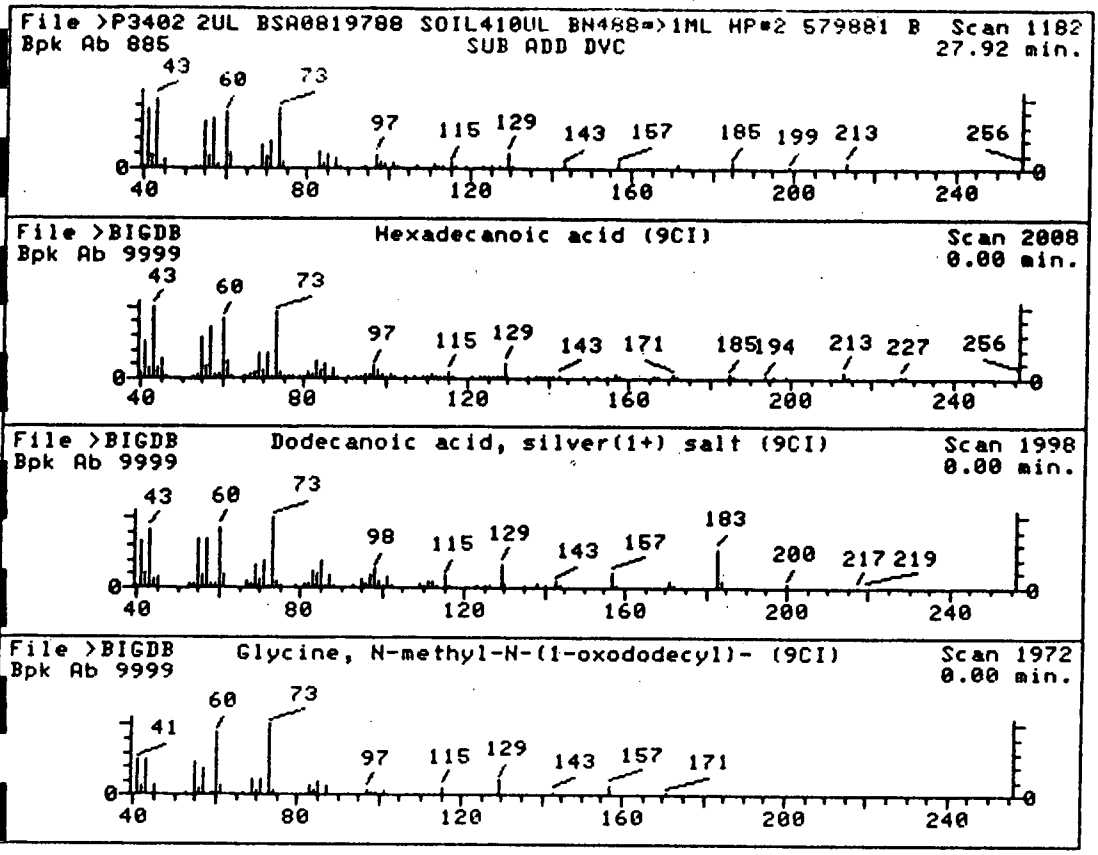


. Unknown #,8
Area = 46630.00 Tentative Concentration is 9.00

1.	Phosphonic acid, dioctadecyl ester (8CI9CI)	586 C36H75O3P
2.	9-Eicosene, (E)- (9CI)	280 C20H40
3.	3-Eicosene, (E)- (9CI)	280 C20H40
4.	Cyclopentane, (2-methylpropyl)- (9CI)	126 C9H18
5.	9-Octadecene, (E)- (8CI9CI)	252 C18H36
6.	5-Octadecene, (E)- (8CI9CI)	252 C18H36
7.	5-Eicosene, (E)- (9CI)	280 C20H40

Sample file: >P3402 Spectrum #: 1133
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	81	19047859	8329	"BIGDB	121	79	3	0	70	6	53	44
2.	79	74685293	8336	"BIGDB	117	53	3	0	74	9	48	37
3.	79	74685339	8338	"BIGDB	113	53	3	0	74	9	48	38
4.	77*	3788327	5415	"BIGDB	65	53	0	0	62	33	32	78
5.	76	7206259	8308	"BIGDB	127	25	3	0	77	12	40	53
6.	76	7206215	8295	"BIGDB	106	39	3	0	98	6	45	26

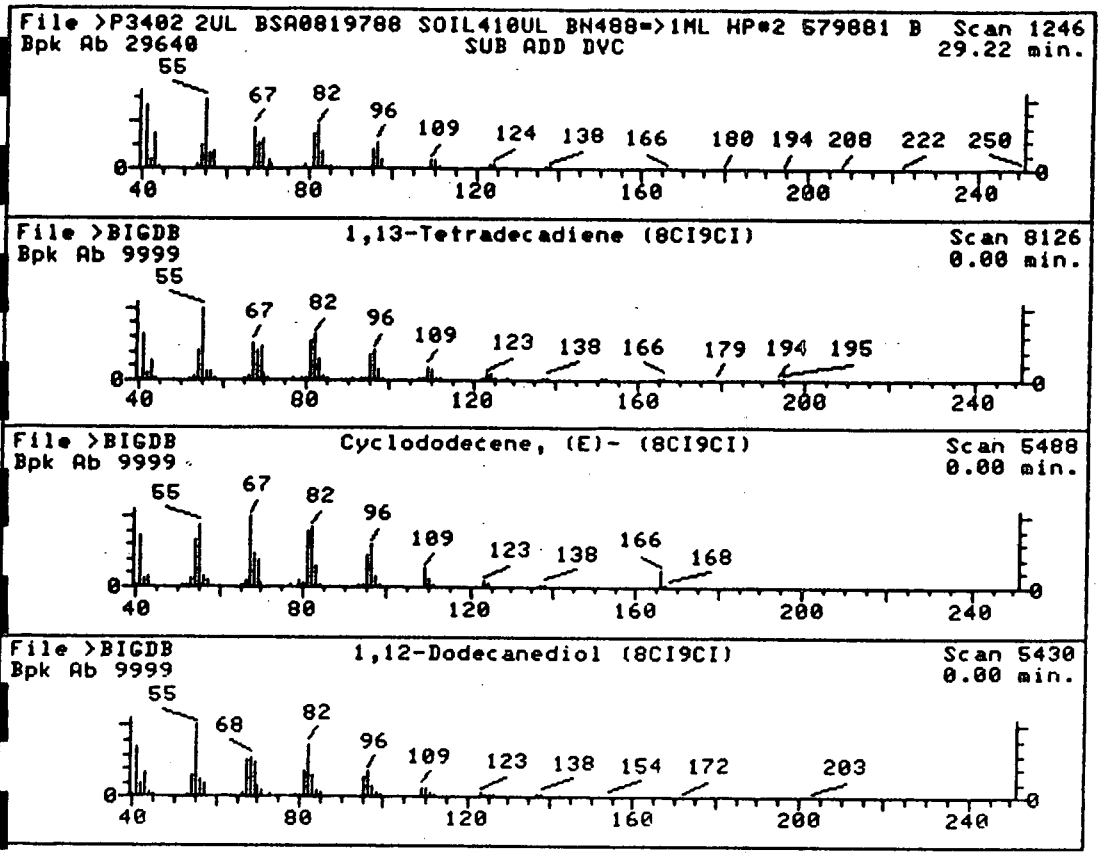


Unknown #,9
Area = 37323.00 Tentative Concentration is 7.00

1.	Hexadecanoic acid (9CI)	256 C16H32O2
2.	Dodecanoic acid, silver(1+) salt (9CI)	0
3.	Glycine, N-methyl-N-(1-oxododecyl)- (9CI)	271 C15H29NO3
4.	Pentadecanoic acid (8CI9CI)	242 C15H30O2
5.	Dodecanamide, N,N-bis(2-hydroxyethyl)- (8CI9CI)	287 C16H33NO3
6.	Tetradecanoic acid (9CI)	228 C14H28O2
7.	Dodecanoic acid (9CI)	200 C12H24O2

Sample file: >P3402 Spectrum #: 1182
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	57103	2008	"BIGDB	118	33	1	0	92	13	64	97

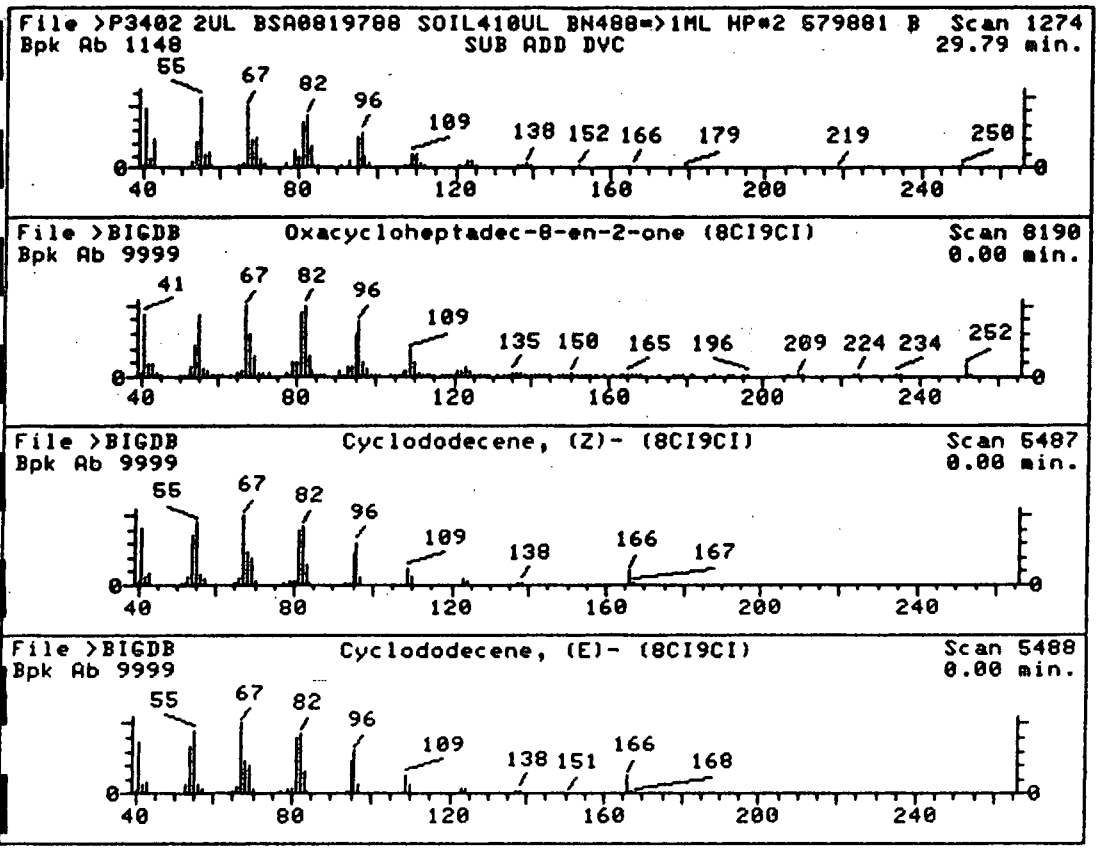


Unknown #,10
Area = 876862.0 Tentative Concentration is 160.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	Cyclododecene, (E)- (8CI9CI)	166 C12H22
3.	1,12-Dodecanediol (8CI9CI)	202 C12H26O2
4.	Cyclododecanol (8CI9CI)	184 C12H24O
5.	1,14-Tetradecanediol (8CI9CI)	230 C14H30O2
6.	Cyclododecene, (Z)- (8CI9CI)	166 C12H22
7.	1,11-Dodecadiene (8CI9CI)	166 C12H22

Sample file: >P3402 Spectrum #: 1246
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	89	21964498	8126	"BIGDB	108	20	1	0	74	1	66	66
2.	83	1486755	5488	"BIGDB	85	44	2	0	50	3	57	23
3.	74	5675514	5430	"BIGDB	108	29	2	0	83	11	39	44
4.	71	1724396	5448	"BIGDB	103	40	2	0	53	11	38	37
5.	70	19812647	5381	"BIGDB	93	50	1	0	74	18	32	52

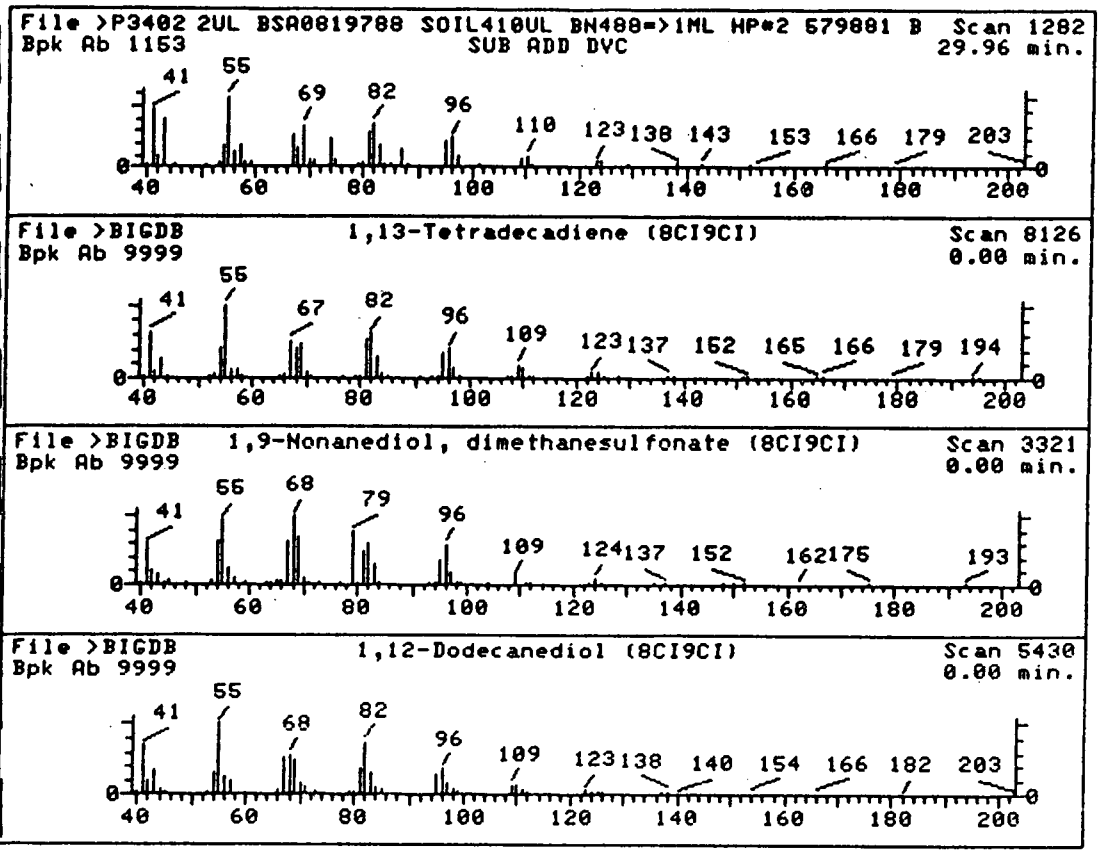


Unknown #,11
Area = 51563.00 Tentative Concentration is 10.00

1.	Oxacycloheptadec-8-en-2-one (8CI9CI)	252 C16H28O2
2.	Cyclododecene, (Z)- (8CI9CI)	166 C12H22
3.	Cyclododecene, (E)- (8CI9CI)	166 C12H22
4.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
5.	1,11-Dodecadiene (8CI9CI)	166 C12H22
6.	9-Octadecyne (9CI)	250 C18H34
7.	Ethanol, 2-(9,12-octadecadienyloxy)-, (Z,Z)- (8CI)	310 C20H38O2

Sample file: >P3402 Spectrum #: 1274
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	78	123693	8190	"BIGDB	93	81	3	0	65	5	55	19
2.	76	1129891	5487	"BIGDB	88	41	2	0	81	6	45	25
3.	76	1486755	5488	"BIGDB	88	41	2	0	81	8	45	25
4.	75	21964498	8126	"BIGDB	105	23	1	0	89	17	35	65

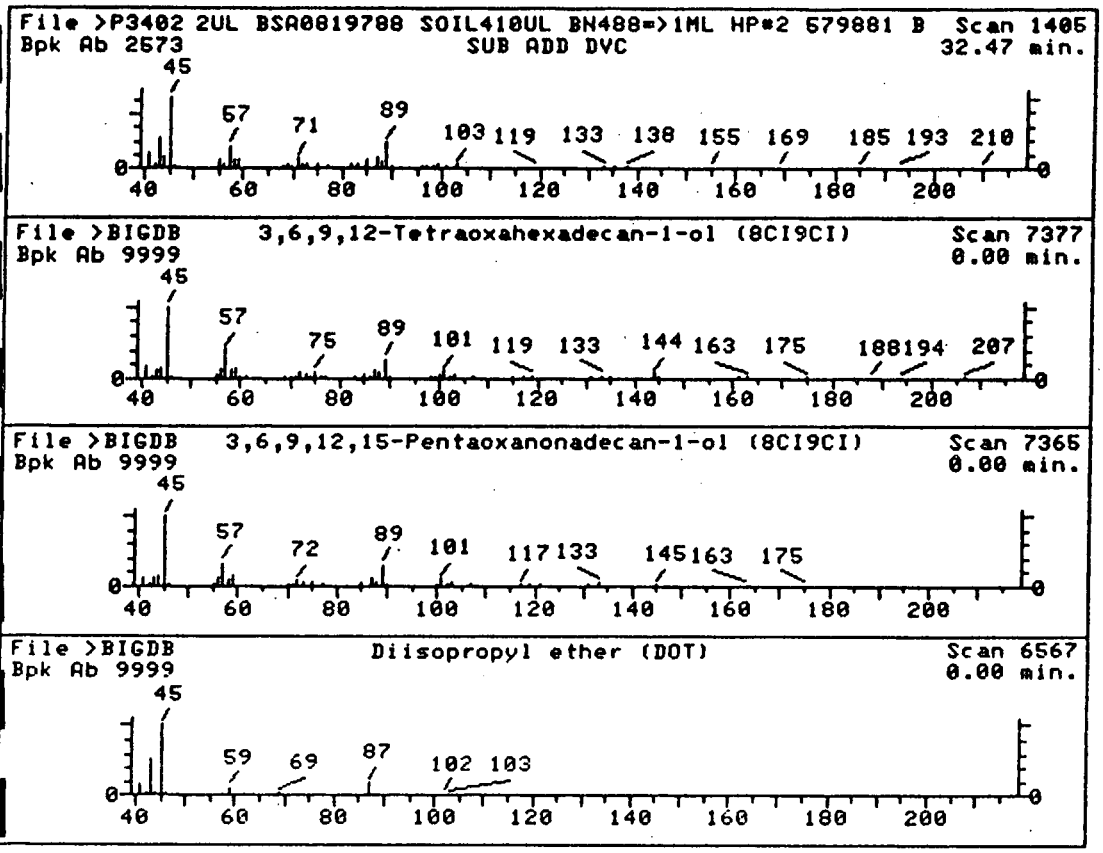


. Unknown #,12
Area = 45467.00 Tentative Concentration is 9.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	1,9-Nonanediol, dimethanesulfonate (8CI9CI)	316 C11H24O6S2
3.	1,12-Dodecanediol (8CI9CI)	202 C12H26O2
4.	9-Eicosyne (9CI)	278 C20H38
5.	1,11-Dodecadiene (8CI9CI)	166 C12H22
6.	9-Octadecyne (9CI)	250 C18H34
7.	1-Hexadecyne (8CI9CI)	222 C16H30

Sample file: >P3402 Spectrum #: 1282
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	67	21964498	8126	"BIGDB	97	31	1	0	71	30	27	57

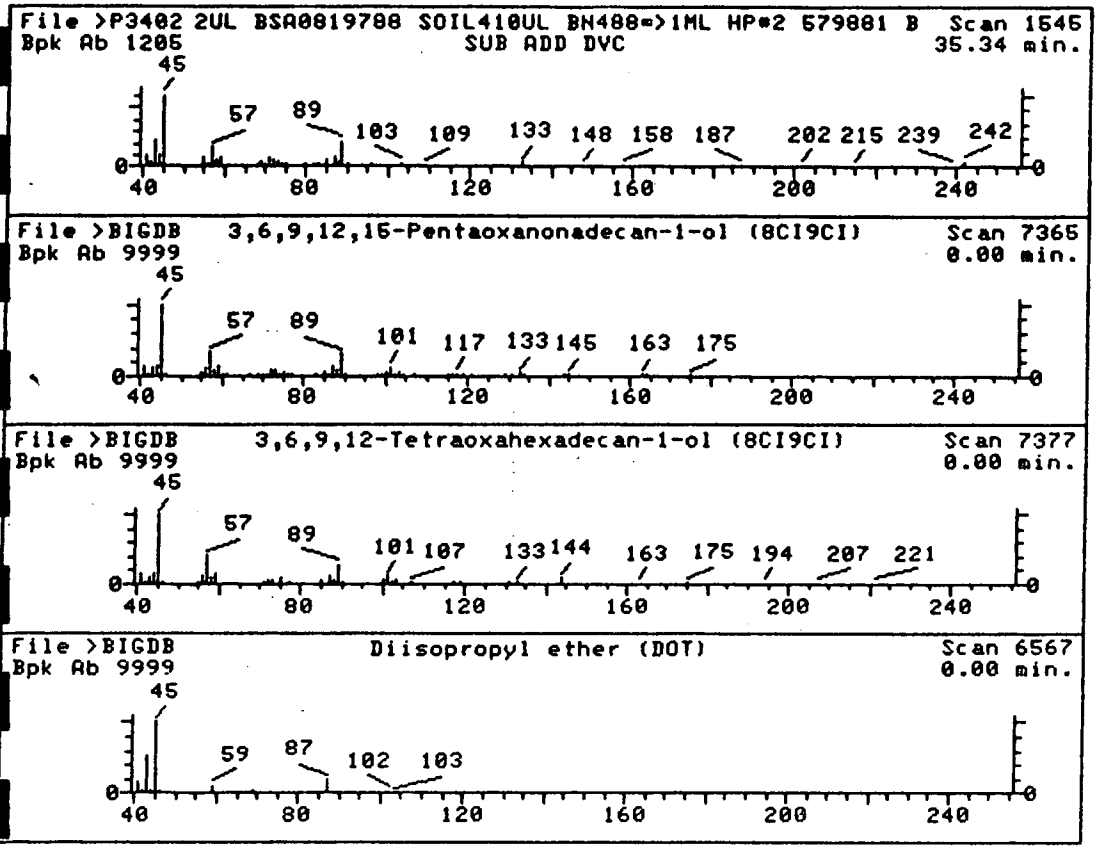


. Unknown #,15
Area = 43986.00 Tentative Concentration is 8.00

1.	3,6,9,12-Tetraoxahexadecan-1-ol (8CI9CI)	250 C12H26O5
2.	3,6,9,12,15-Pentaoxanonadecan-1-ol (8CI9CI)	294 C14H30O6
3.	Diisopropyl ether (DOT)	102 C6H14O
4.	Ethanol, 2-[2-(ethenyloxy)ethoxy]- (9CI)	132 C6H12O3
5.	Ethanol, 2-(ethenyloxy)- (9CI)	88 C4H8O2
6.	2-Hexanol (8CI9CI)	102 C6H14O
7.	Propane, 1-methoxy-2-methyl- (9CI)	88 C5H12O

Sample file: >P3402 Spectrum #: 1405
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60	1559348	7377	"BIGDB	73	56	2	0	77	12	30	18

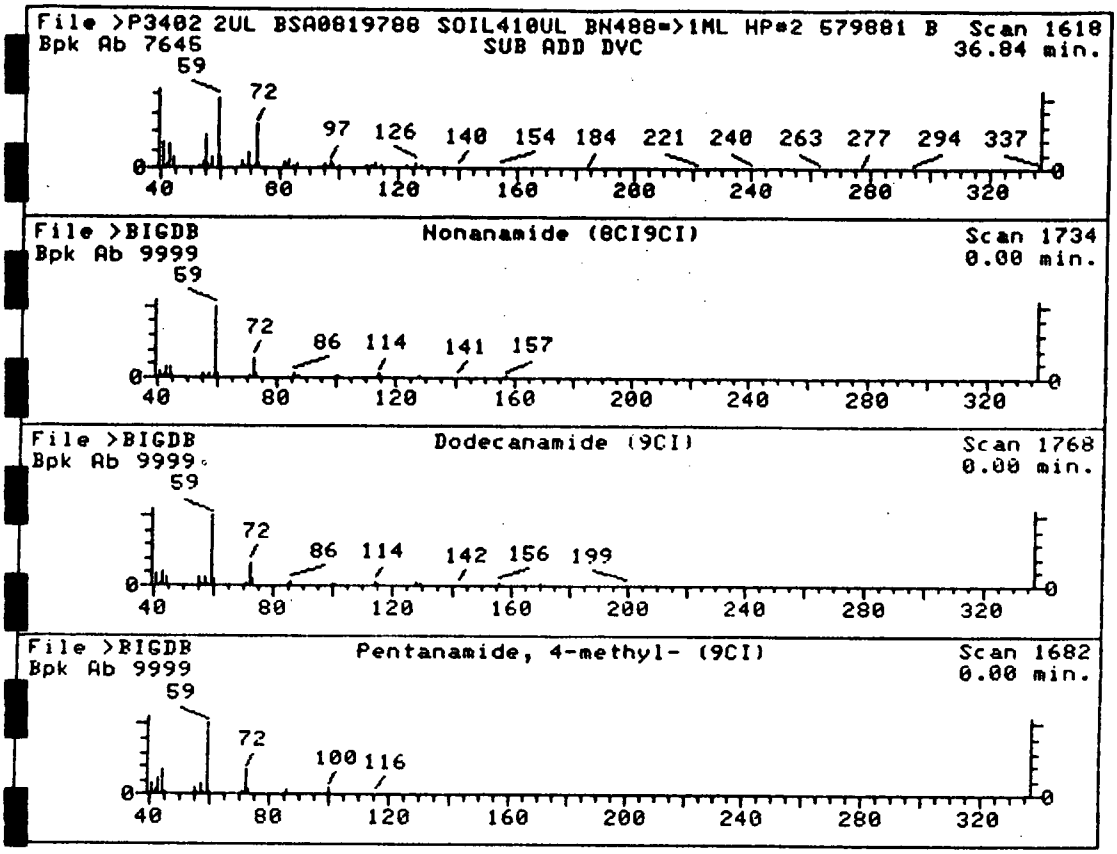


. Unknown #,17
Area = 22586.00 Tentative Concentration is 4.00

1.	3,6,9,12,15-Pentaoxanonadecan-1-ol (8CI9CI)	294	C14H30O6
2.	3,6,9,12-Tetraoxahexadecan-1-ol (8CI9CI)	250	C12H26O5
3.	Diisopropyl ether (DOT)	102	C6H14O
4.	3-Hexanol, 2,3-dimethyl- (8CI9CI)	130	C8H18O
5.	2-Hexanol (8CI9CI)	102	C6H14O
6.	Propanoic acid, 2-hydroxy-, methyl ester (9CI)	104	C4H8O3
7.	Acetaldehyde, methoxy- (8CI9CI)	74	C3H6O2

Sample file: >P3402 Spectrum #: 1545
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	60	1786943	7365	"BIGDB	74	58	2	0	90	12	30	18

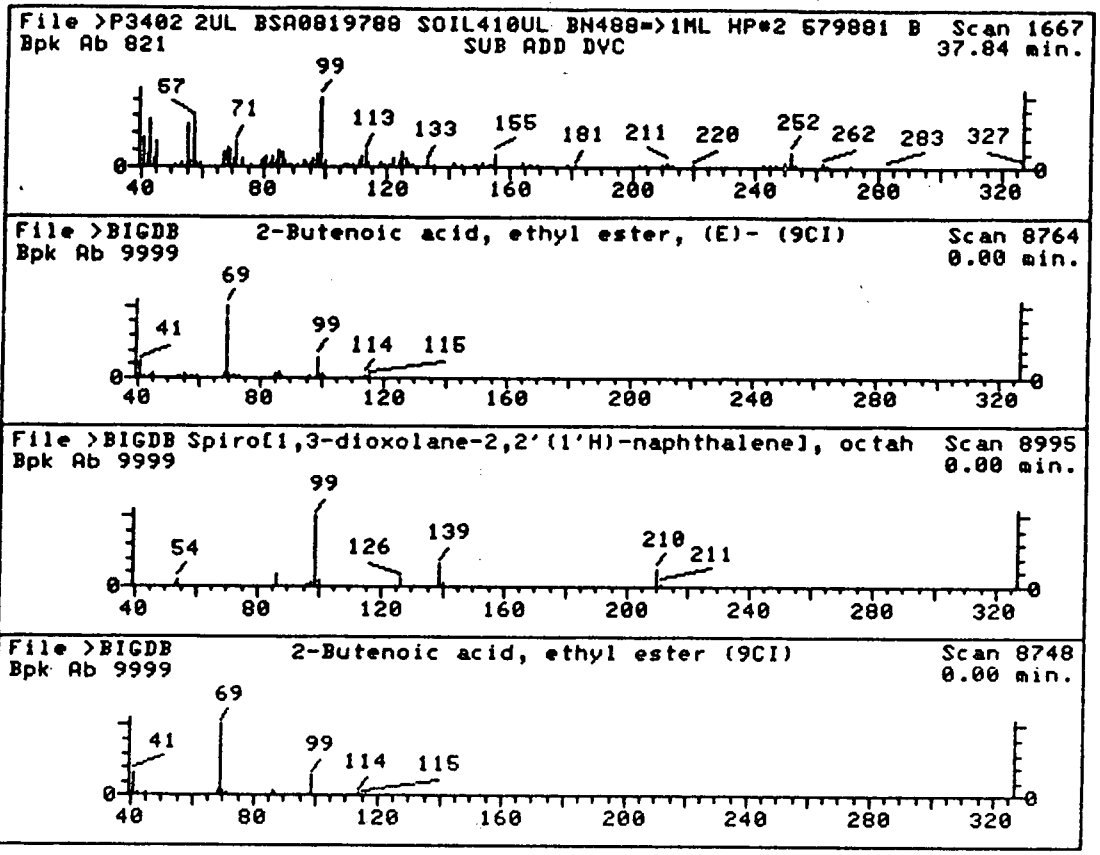


Unknown #,18
Area = 131911.0 Tentative Concentration is 25.00

1.	Nonanamide (8CI9CI)	157 C9H19NO
2.	Dodecanamide (9CI)	199 C12H25NO
3.	Pentanamide, 4-methyl- (9CI)	115 C6H13NO
4.	Pentanamide (9CI)	101 C5H11NO
5.	Pentanal, oxime (9CI)	101 C5H11NO
6.	2-Pentanol, 3-chloro-2-methyl- (9CI)	136 C6H13ClO
7.	Acetic acid, cyano-, methyl ester (8CI9CI)	99 C4H5NO2

Sample file: >P3402 Spectrum #: 1618
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	38	1120076	1734	"BIGDB	43	43	1	0	100	26	14	15

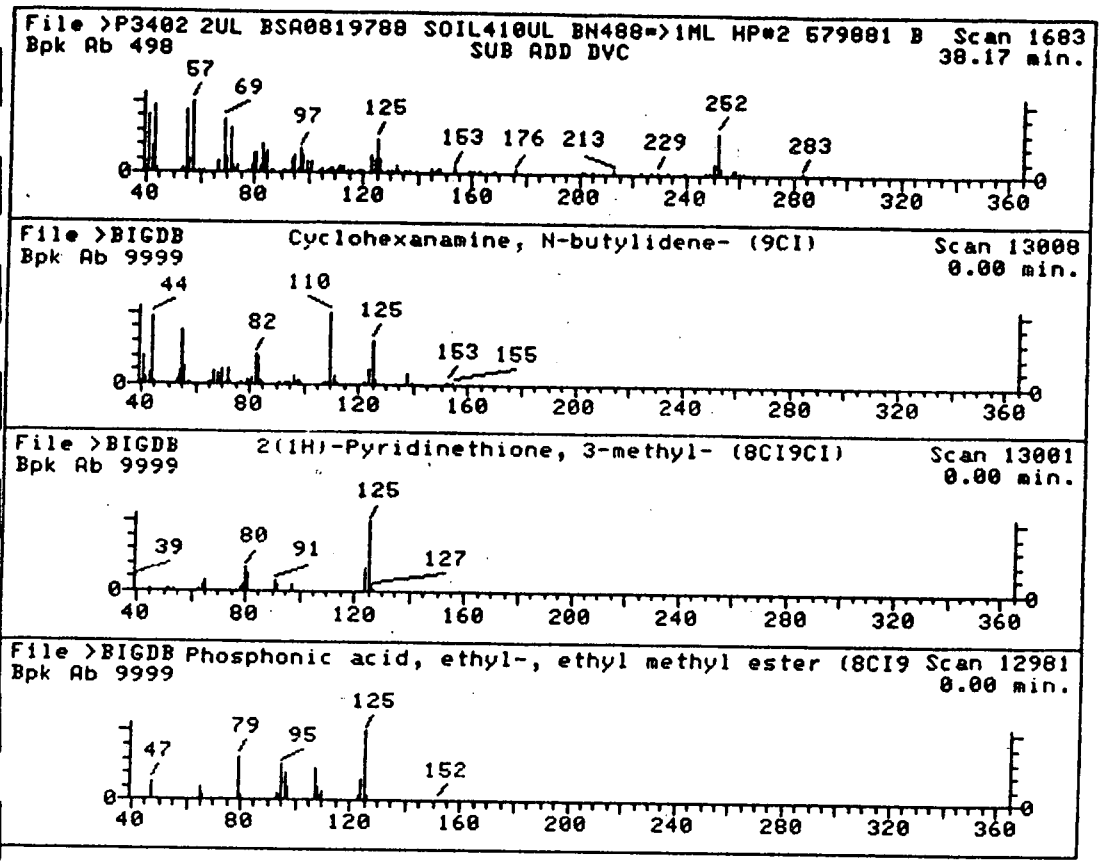


. Unknown #,19
Area = 38344.00 Tentative Concentration is 7.00

1.	2-Butenoic acid, ethyl ester, (E)- (9CI)	114 C6H10O2
2.	Spiro[1,3-dioxolane-2,2'(1'H)-naphthalene], octahydr o-4-methyl- (9CI)	210 C13H22O2
3.	2-Butenoic acid, ethyl ester (9CI)	114 C6H10O2
4.	1,4-Dioxaspiro[4.6]undec-7-ene (8CI)	154 C9H14O2
5.	Octane, 1-isocyanato- (9CI)	155 C9H17NO
6.	Sarin	140 C4H10FO2P
7.	1,4-Dioxaspiro[4.5]decane (8CI9CI)	142 C8H14O2

Sample file: >P3402 Spectrum #: 1667
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	30*	623701	8764	"BIGDB	42	43	2	0	262	48	10	22



Unknown #,20
Area = 22815.00 Tentative Concentration is 4.00

1.	Cyclohexanamine, N-butylidene- (9CI)	153 C10H19N
2.	2(1H)-Pyridinethione, 3-methyl- (8CI9CI)	125 C6H7NS
3.	Phosphonic acid, ethyl-, ethyl methyl ester (8CI9CI)	152 C5H13O3P
4.	1-Azabicyclo[2.2.2]octane, 2-methyl- (9CI)	125 C8H15N
5.	Benzo[e]pyrene (8CI9CI)	252 C20H12
6.	Benzo[k]fluoranthene (8CI9CI)	252 C20H12
7.	Ethanamine, N-cyclohexylidene- (9CI)	125 C8H15N

Sample file: >P3402 Spectrum #: 1683
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

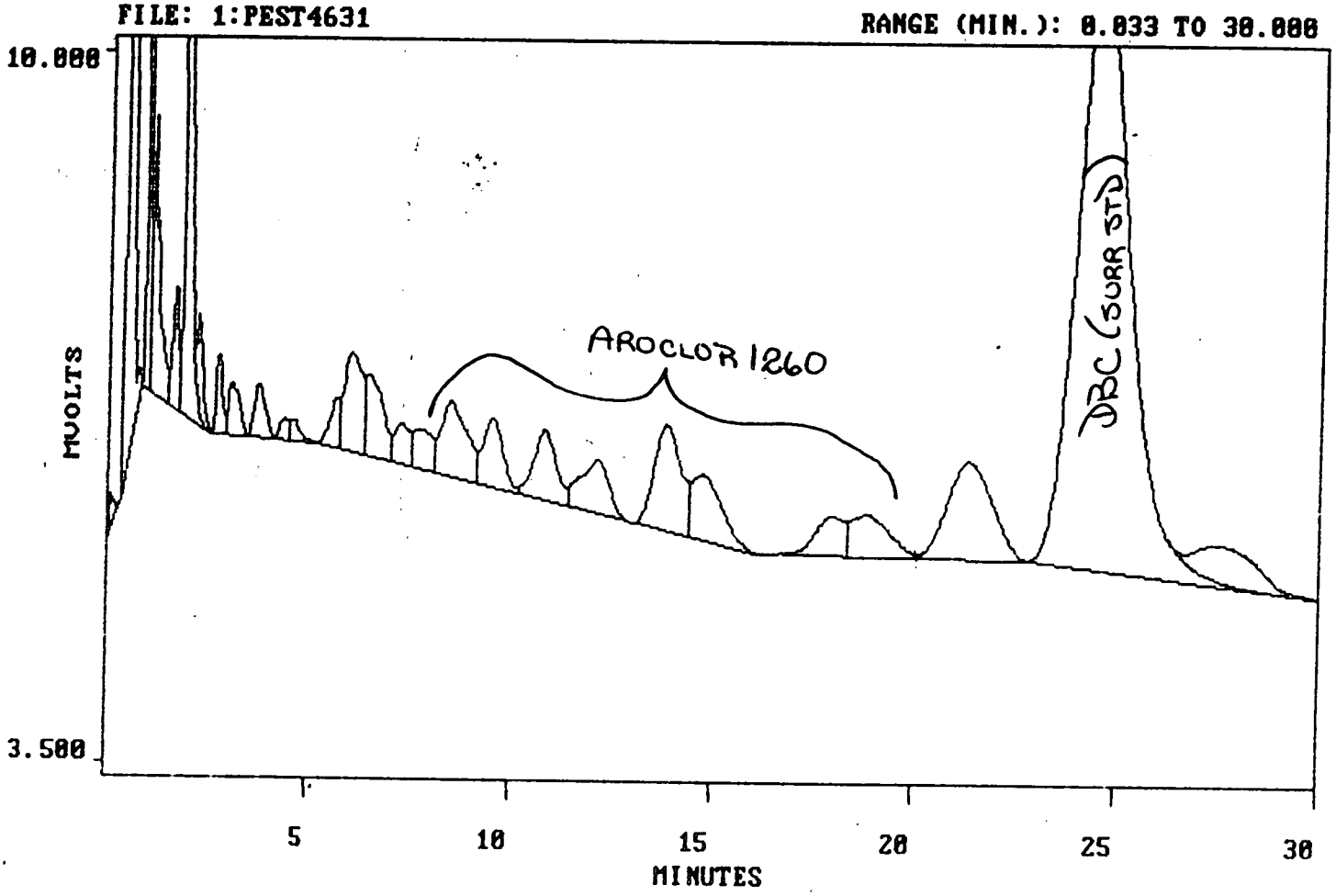
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15*	1197520	13008	"BIGDB	55	70	3	0	77	60	3	18

BSA 0819788

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:10:13:48 Date:THU 10 SEP 87

Time:04:39:49 Date:THU 10 SEP 87
Method:PEST1



4-79

Channel #.....4 Time:05:13:51 Date:THU 10 SEP 87
Run #21 of 50

Sample name.....
Data file.....DAT351:PEST4631
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....04:39:49 Acq. date....THU 10 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..28
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

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METHOD NOT CALIBRATED!

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MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.042	alpha-BHC	0	
2.575	LINDANE	0	
2.924	beta-BHC	0	
3.393	delta-BHC	0	
8.710	DIELDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
22.759	MIREX (STD.)	0	S

Ronaxell 9/17/87

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AREA PERCENT REPORT

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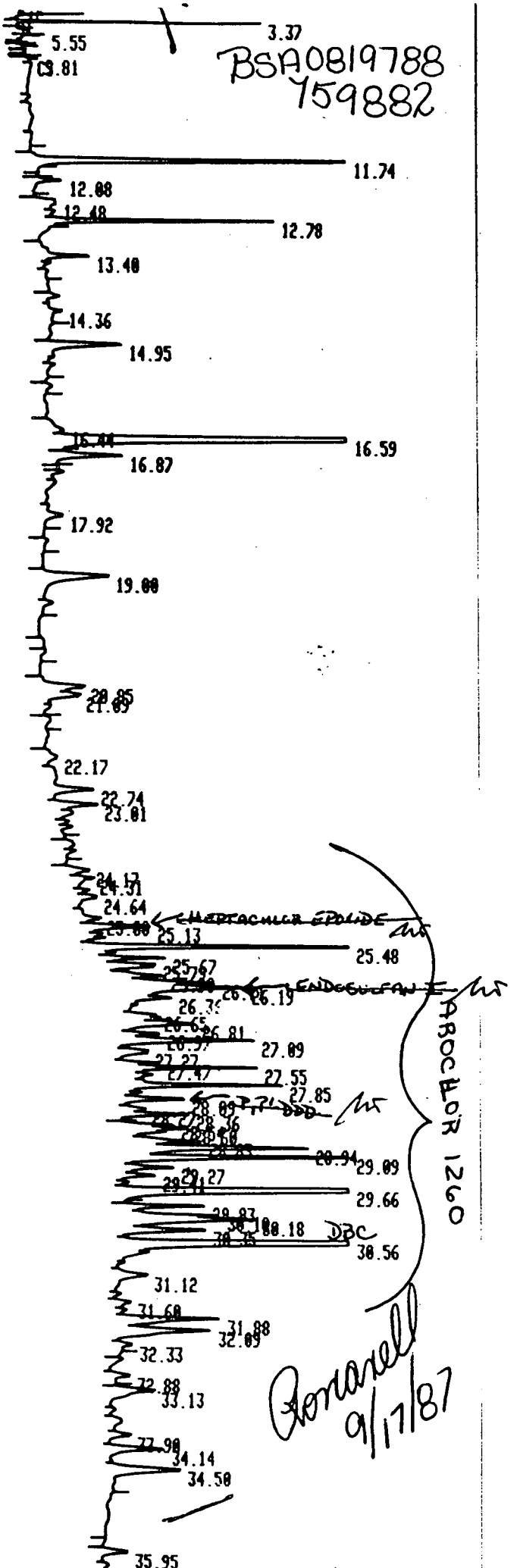
Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.133			0.090	3231	315	BB
2	0.499			67.553	2424547	582515	BB
3	0.941			0.854	30654	5478	BV

	4	1.100		0.857	30760	2671	VV
	5	1.648		0.329	11818	1208	VV
	6	1.901		2.597	93211	10127	VE
	7	2.261		0.289	10389	937	EB
	8	2.757		0.235	8417	791	BV
3.09-3.27	9	3.067	~~HEPTACHLOR~~ MLK.	0.273	9791	526	VB
3.71-3.93	10	3.749	~~ALDRIN~~ MLK.	0.261	9365	511	BB
	11	4.373		0.101	3636	208	BV
	12	4.605		0.084	3005	213	VB
5.55-5.77	13	5.638	~~HEPTACHLOR EPOXIDE~~	0.228	8196	499	BV
	14	5.980		0.821	29477	966	VV
	15	6.407		0.656	23535	789	VV
7.81-7.23	16	7.234	DT. ~~ENDOSULFAN I~~ OR.	0.280	10047	400	VV
	17	7.731		0.343	12319	383	VV
8.27-8.75	18	8.448	~~P,P'-DDE~~ MLK OR ~~DIELDRIN~~	0.896	32145	734	VV
	19	9.483	AROCLOR 1260	0.602	21617	654	VV
	20	10.761	~~ENDRIN~~ MLK	0.715	25658	670	VV
12.02-12.18	21	12.069	P,P'-DDD *	0.692	24853	503	VB
	22	13.773		1.302	46743	994	BV
14.42-15.02	23	14.675	~~P,P'-DDT~~ MLK	0.867	31123	612	VB
	24	17.933		0.526	18874	371	BV
	25	18.772		0.713	25598	395	VV
	26	21.327		1.976	70937	918	VB
	27	24.524	~~DBC (SURR STD)~~	14.863	533463300/489	5784	BE
	28	27.502	~~DBC/METHOXYCHLOR~~ MLK	0.994	35678	329	EB
	TOTALS			100.000	3589087		

20/489
145.7/570 pg/ml
152.1/45

460 ug/Kg DBC SPIKED 11J
106% REC

* falls in ppDDD window
but is part of 1260 peaks pattern



WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 3

HP5890
SPB608

AREA%

RT	AREA	TYPE	AR/HT	AREA%
3.37	521750	BB	0.114	4.420
9.81	41578	PV	0.174	0.352
11.74	553620	PB	0.045	4.690
12.08	28395	BB	0.060	0.241
12.48	46252	PV	0.142	0.392
12.78	196340	VB	0.046	1.663
13.40	67868	PV	0.078	0.575
14.95	120450	PV	0.089	1.020
16.44	25144	PV	0.124	0.213
16.59	1337700	VB	0.068	11.332
16.87	83210	BB	0.072	0.705
17.92	44600	PB	0.130	0.378
19.00	172440	BV	0.136	1.461
20.95	88461	PV	0.108	0.749
21.09	78489	VV	0.108	0.665
22.17	28443	PP	0.131	0.241
22.74	101970	PP	0.131	0.864
23.01	67294	PV	0.084	0.570
24.17	39357	PV	0.094	0.333
24.31	51577	VV	0.110	0.437
24.64	46961	VV	0.112	0.398
25.00	37187	VV	0.090	0.315
25.13	HEPT EPO 104460	VV	0.082	0.885
25.48	520030	PV	0.051	4.405
25.67	73689	VV	0.057	0.624
25.79	53980	VV	0.052	0.457
25.98	86833	VV	0.082	0.736
26.11	149260	VV	0.078	1.264
26.19	ENDO I 248640	VV	0.102	2.106
26.36	77303	VV	0.082	0.655
26.81	68675	BP	0.075	0.582
26.97	30230	PV	0.050	0.256
27.09	178940	VP	0.073	1.516
27.27	55881	PP	0.104	0.473
27.47	36751	PV	0.050	0.311
27.55	148190	VV	0.057	1.255
27.85	210960	VV	0.069	1.787
28.09	P,P'-DDD 81861	VV	0.069	0.693
28.27	36266	VV	0.077	0.307
28.36	75558	VB	0.060	0.640
28.54	50892	PV	0.052	0.431
28.60	71675	VV	0.059	0.607
28.83	132910	VV	0.089	1.126
28.94	311140	VV	0.088	2.636
29.09	349460	VV	0.064	2.960
29.27	67400	VV	0.069	0.571
29.41	41345	VV	0.066	0.350
29.66	1244700	PB	0.070	10.543
29.93	90985	BV	0.060	0.771
30.10	121810	VV	0.067	1.032
30.18	232550	VV	0.094	1.970
30.35	126340	VV	0.079	1.070
30.56	DBC 1567800	VV	0.062	13.281
31.12	78076	PV	0.126	0.661
31.60	31311	PV	0.096	0.265
31.88	193030	VV	0.099	1.635
32.09	203280	VP	0.116	1.722
32.88	30273	PB	0.086	0.256
33.13	97896	BP	0.124	0.829
33.90	42526	VP	0.098	0.360
34.14	94470	PP	0.092	0.800
34.50	160820	PB	0.122	1.362
35.95	44986	BP	0.091	0.381
37.77	260870	PB	0.127	2.210
38.40	69798	BV	0.120	0.591
38.64	72166 I	VH	0.116	0.611

VI. 2. Reporting Package for

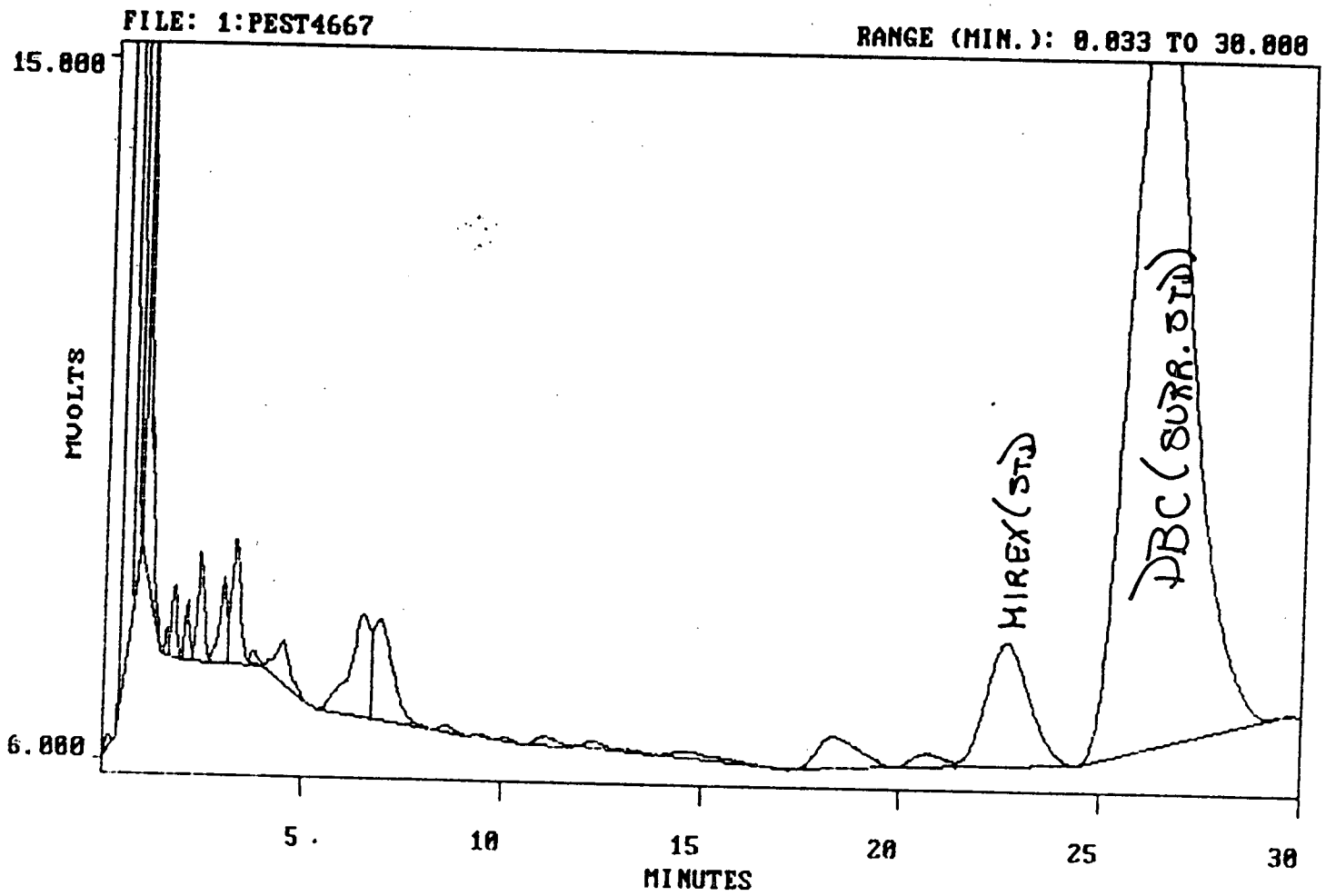
NJDEP I.D. # BSA 08197890

BSA08197890

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:16:41:51 Date:MON 14 SEP 87

Time:19:03:18 Date:FRI 11 SEP 87
Method:PEST1



Channel #.....REINT Time:16:33:04 Date:MON 14 SEP 87

Sample name.....
Data file.....1:PEST4667
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq time.....19:03:18 Acq. date....FRI 11 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec

Area reject....500
peaks found..25
Vol Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

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METHOD NOT CALIBRATED!

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MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.575	LINDANE	0	
3.130	HEPTACHLOR	0	
5.760	HEPTACHLOR EPOXI	0	
7.139	ENDOSULFAN I	0	
8.208	P,P'-DDE	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
27.978	DBC/METHOX/END.K	0	

Ronarell 9/17/87

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AREA PERCENT REPORT

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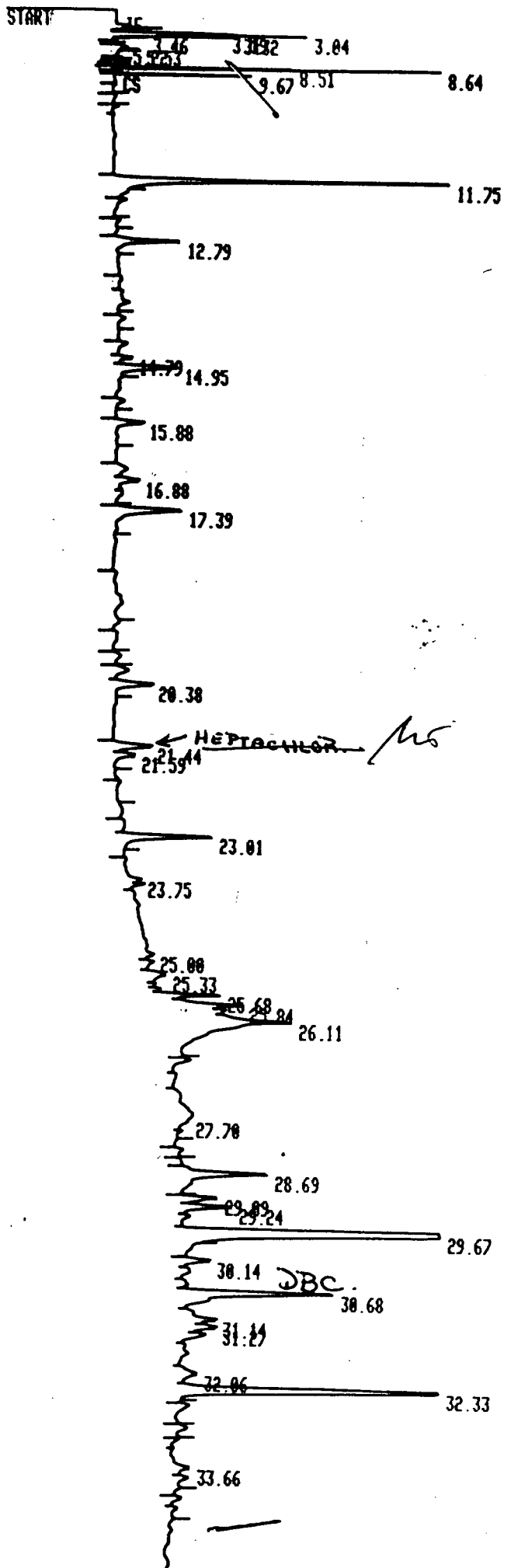
Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.168			0.033	2145	191	BB
2	0.534			74.869	4940770	859444	BE
3	0.703			1.380	91051	14275	EB
4	0.976			1.114	73486	10247	BB
5	1.585			0.037	2446	364	BV

	6	1.756		0.122	8023	971	VB
2.09-2.21	7	2.094	~~alpha BHC~~ MLR	0.100	6583	788	BV
	8	2.414		0.238	15679	1490	VV
2.95-3.13	9	2.986	~~beta BHC~~ MLR.	0.225	14863	1183	VV
3.15-3.33	10	3.281	~~delta-BHC~~ MLR. HEPTACHLOR	0.374	24674 265.2/DR	1668	VE
	11	3.763	~~ALDRIN~~ MLR	0.034	2218	187	EB
	12	4.487		0.204	13494	541	BB
	13	6.420		0.732	48306	1356	BV
	14	6.866		0.675	44566	1322	VB
~~8.43-8.91~~ MLR.	15	8.544	~~DIELDRIN~~ MLR	0.029	1900	84	BB
	16	10.038		0.011	698	33	BB
	17	10.990	~~ENDP~~ MLR	0.061	3999	111	BB
~~12.09-12.81~~ MLR	18	12.264	~~P,P' DDD~~ MLR.	0.063	4158	90	BB
	19	14.567		0.110	7284	82	BB
	20	18.340		0.484	31944	436	BB
	21	20.705		0.153	10109	184	BV
	22	22.652 S	MIREX (STD.)	1.885	124381	1644	VB
	23	26.239		17.069	1126405 300/9.01	10616	BE
	---			---	---		
	TOTALS			100.000	6599182		

4.0 ug/l DBC SPIKED ~~9.01~~ MLR

225%



759890

BSA08197890

RUN # 163 SEP/14/87 19:10:01
WORKFILE ID: B
WORKFILE NAME: HP5890
SAMPLE # 5 SP8608

AREA%

RT	AREA	TYPE	AR/HT	AREA%
3.04	63100	BV	0.044	1.033
3.19	30407	VP	0.037	0.498
3.32	82704	PP	0.049	1.354
5.22	95395	BV	0.504	1.562
8.51	169600	PV	0.051	2.777
8.64	365900	VB	0.060	5.990
9.67	131890	PB	0.052	2.159
11.75	390950	PB	0.053	6.400
12.79	76868	PB	0.065	1.258
14.95	76516	PB	0.073	1.253
15.88	36830	BB	0.071	0.603
16.88	37733	VV	0.085	0.618
17.39	129360	BB	0.108	2.118
20.38	58955	PB	0.084	0.965
21.44 HEPTACHLOR	60244	PV	0.085	0.986
21.59 MS	34494	VB	0.090	0.565
23.01	116120	PB	0.072	1.901
25.00	87493	PV	0.434	1.432
25.33	32532	PV	0.104	0.533
25.68	67938	VV	0.060	1.112
25.84	133200	VV	0.091	2.181
26.11	512760	VB	0.229	8.395
27.70	123240	PV	0.366	2.018
28.69	171950	BB	0.110	2.815
29.09	52371	BV	0.078	0.857
29.24	69860	VV	0.076	1.144
29.67	1778500	PB	0.081	29.116
30.14	33741	BP	0.070	0.552
30.68 DBC	280140	VV	0.102	4.586
31.14	84126	VV	0.125	1.377
31.27	67326	VV	0.099	1.102
32.06	45951	PV	0.141	0.752
32.33	589530	VB	0.080	9.651
33.66	20523	PV	0.082	0.336

TOTAL AREA= 6108200
MUL FACTOR= 1.0000E+00

RAW DATA TRANSMITTED FILE: RW4037::-27
CARD-PTS TRANSMITTED FILE: CP4078::-27

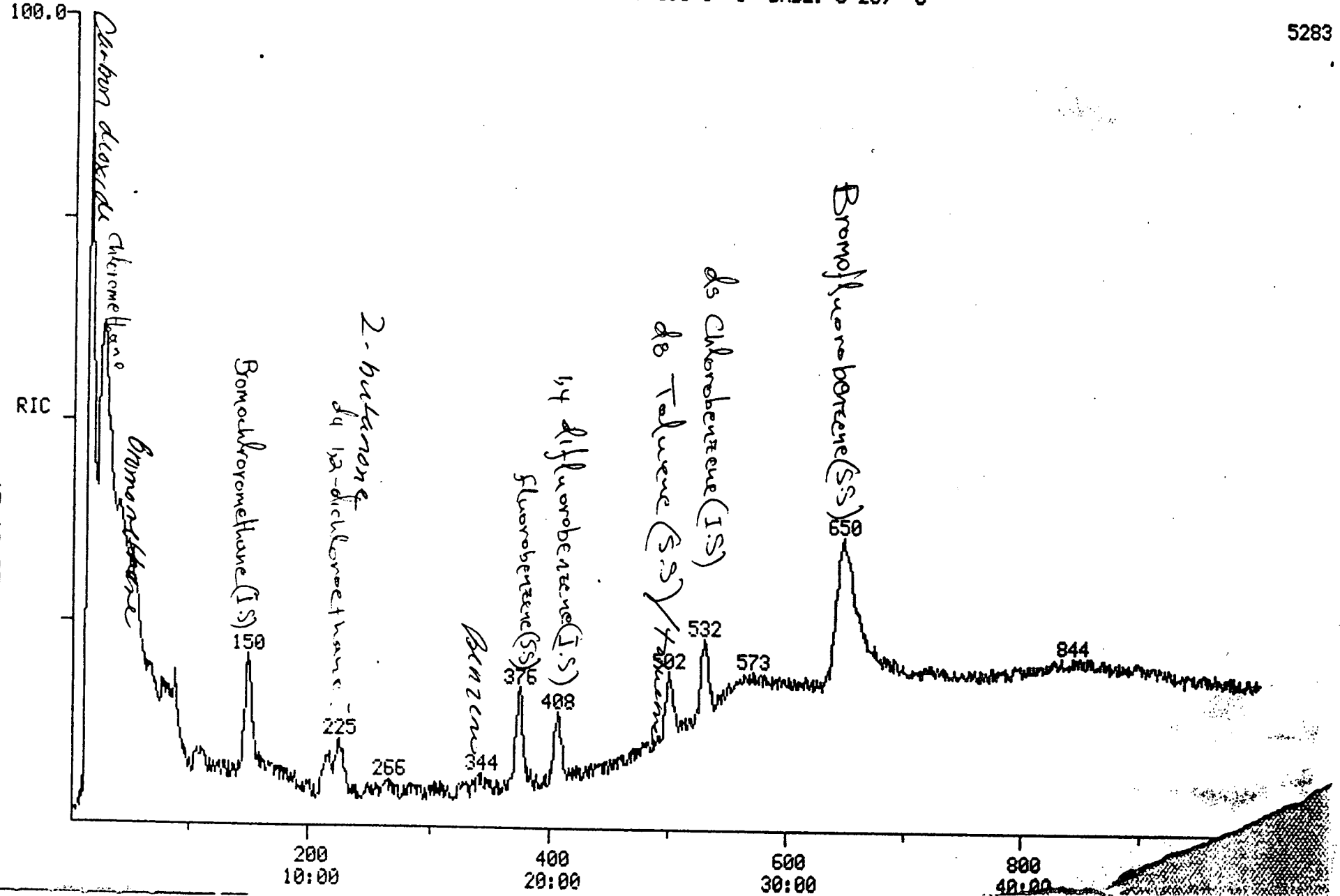
Ronarelli 9/17/87

.23

467

III. 2. Reporting Package for NJDEP # Soil 5

RIC
08/28/87 19:59:00
DATA: PU7441 #1
CALI: PU7441 #2
SCANS 1 TO 1000
SAMPLE: 100UL #BSA 0819789(1,2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



TCA FINISHED, 8 FOUND
FINISHED AT: 9/07/87 16:09:27

487

QUANTITATION REPORT FILE: PU7441

DATA: PU7441.TI
8/28/87 19:59:00
SAMPLE: 100UL #BSA 0819789(1,2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

No	Name
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR.STD)
49	BROMOFLUORBENZENE(SURR. STD)

No	M/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	128	149	7:27	1	1.000	A BV	36480.	30.000 UG/L	1.47	
2	65	216	10:48	1	1.450	A BB	66585.	27.231 UG/L	1.33	
3	50	27	1:21	1	0.181	A BB	995863.	242.632 UG/L	11.89	100000 ppb
4	NOT FOUND 41						4724	24.37		7100 ppb
5	NOT FOUND									
6	64	56	2:48	1	0.376	A*VB	2501.	~~1.353 UG/L~~	0.07	MS PEAK
7	84	89	4:27	1	0.597	A BB	18932.	5.903 UG/L	0.29	2500 B
8	~~43~~	~~92~~	~~4:36~~	~~1~~	~~0.617~~	~~A BB~~	~~2050.~~	~~0.583 UG/L~~	~~0.03~~	
9	~~76~~	~~87~~	~~4:21~~	~~1~~	~~0.584~~	~~A*BB~~	~~1585.~~	~~58.160 UG/L~~	~~2.85~~	
10	96	140	7:00	1	0.940	A BB	549.	0.215 UG/L	0.01	
11	63	171	8:33	1	1.148	A*BB	2025.	0.632 UG/L	0.03	
12	96	188	9:24	1	1.262	A*BB	1595.	0.990 UG/L	0.05	
13	NOT FOUND									
14	NOT FOUND									
15	101	130	6:30	1	0.872	A BB	2989.	~~1.027 UG/L~~	~~0.05~~	MS PEAK.
16	~~85~~	~~47~~	~~2:21~~	~~1~~	~~0.315~~	~~A*VB~~	~~1299.~~	~~32.302 UG/L~~	~~1.58~~	
17	~~56~~	~~148~~	~~7:24~~	~~1~~	~~0.993~~	~~A*BV~~	~~2595.~~	~~394.197 UG/L~~	~~19.32~~	
18	~~53~~	~~146~~	~~7:18~~	~~1~~	~~0.980~~	~~A*BB~~	~~900.~~	~~307.766 UG/L~~	~~15.09~~	
19	114	407	20:21	19	1.000	A BB	125756.	30.000 UG/L	1.47	1490

20	NOT FOUND									
21	97	223	11:09	19	0.548	A BB	243.	0.339 UG/L	0.02	
22	117	225	11:15	19	0.553	A VB	692.	1.565 UG/L	0.08	MIS IDENT
23	43	250	12:30	19	0.614	A*BB	6034.	7.979 UG/L	0.39	
24	83	268	13:24	19	0.658	A*BV	758.	0.419 UG/L	0.02	
25	63	280	14:00	19	0.688	A BB	335.	0.346 UG/L	0.02	
26	75	309	15:27	19	0.759	A*BV	3149.	2.902 UG/L	0.14	MIS IDENT.
27	NOT FOUND									
28	129	342	17:06	19	0.840	A BB	744.	0.434 UG/L	0.02	
29	97	309	15:27	19	0.759	A BV	786.	0.419 UG/L	0.02	
30	78	314 342	15:42	19	0.771	A*BB	1256. 11869	0.209 UG/L 197	0.01	590
31	75	333	16:39	19	0.818	A*VV	3211.	2.135 UG/L	0.10	
32	63	343	17:09	19	0.843	A*BB	2650.	0.549 UG/L	0.03	
33	173	412	20:36	19	1.012	A*BB	690.	0.710 UG/L	0.03	
34	117	531	26:33	34	1.000	A BV	91892.	30.000 UG/L	1.47	
35	43	347	17:21	34	0.652	A*BV	18611.	446.993 UG/L	21.91	
36	43	355	17:45	34	0.669	A*VB	9118.	58.548 UG/L	2.87	
37	164	454	22:42	34	0.855	A BB	753.	0.550 UG/L	0.03	
38	83	452	22:36	34	0.851	A*VV	5575.	1.988 UG/L	0.10	MIS IDENT
39	92	484 460	24:12	34	0.911	A BB	860. 12443	0.235 UG/L 2.6%	0.01	1000 JB
40	112	514	25:42	34	0.968	A*BV	2947.	0.782 UG/L	0.04	
41	106	560	28:00	34	1.055	A BV	1003.	0.546 UG/L	0.03	
42	104	586	29:18	34	1.104	A*BB	1377.	40.989 UG/L	2.01	
43	106	620	31:00	34	1.168	A*VB	3796.	88.037 UG/L	4.32	
44	106	620	31:00	34	1.168	A*VB	3796.	176.073 UG/L	8.63	
45	146	857	42:51	34	1.614	A VV	6901.	2.656 UG/L	0.13	
46	146	900	45:00	34	1.695	A*VV	5309.	2.171 UG/L	0.11	MIS IDENT.
47	146	906	45:18	34	1.706	A*VV	4762.	1.601 UG/L	0.08	
48	96	375	18:45	34	0.706	A BB	169829.	30.289 UG/L	1.48	
49	95	646	32:18	34	1.217	A BB	82688.	26.197 UG/L	1.28	

Non Targeted Compounds.

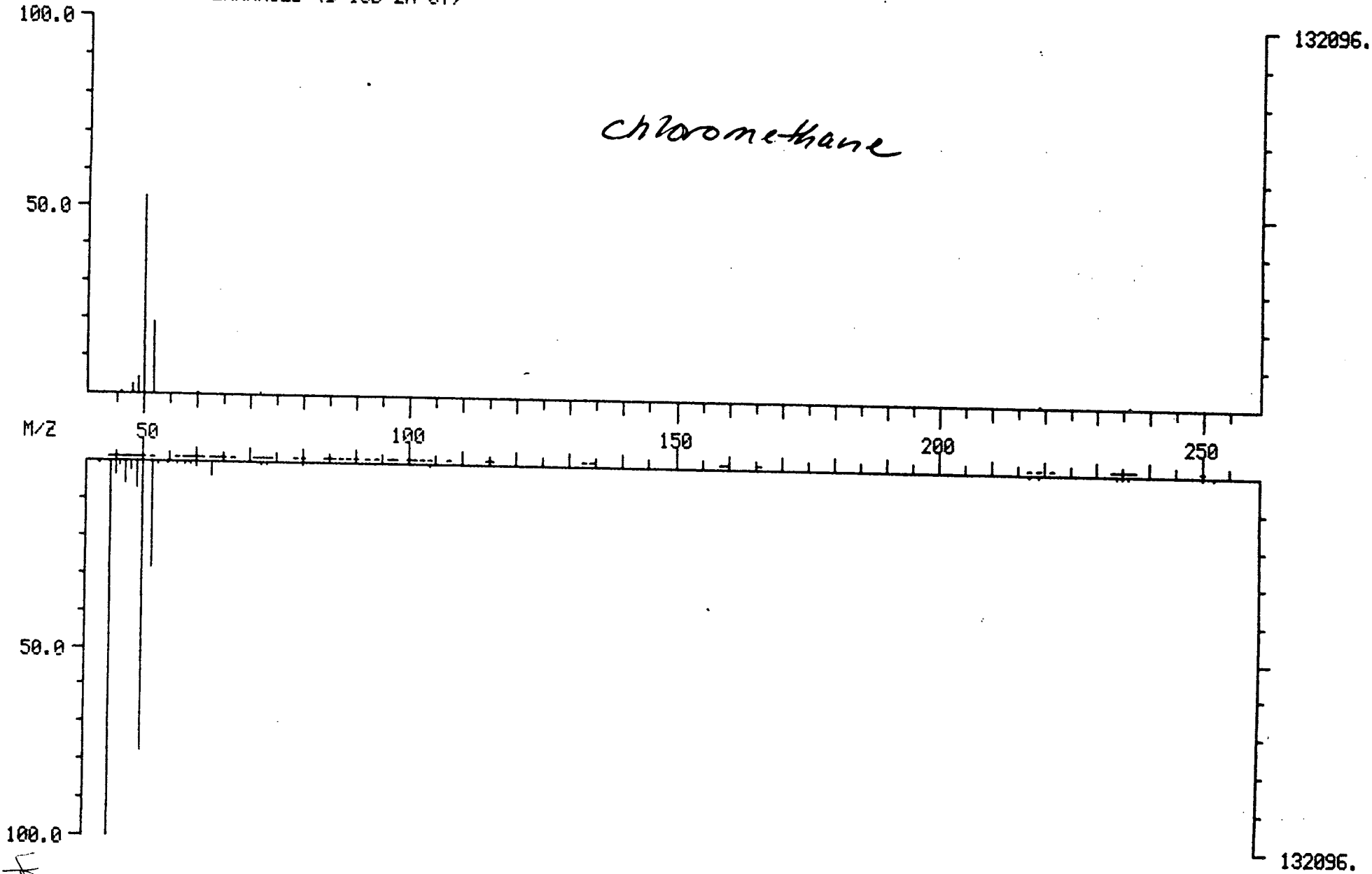
9/14/04

	scan #	ref-pk.	area	Amt (ug/kg)
1.	14	1	265950	37000 JB
2.	225	1	282528	3900 J

DUAL MASS SPECTRUM
08/28/87 19:59:00 + 1:21
SAMPLE: 100UL #BSA 0819789(1,2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7441 #27
CALI: PU7441 #2

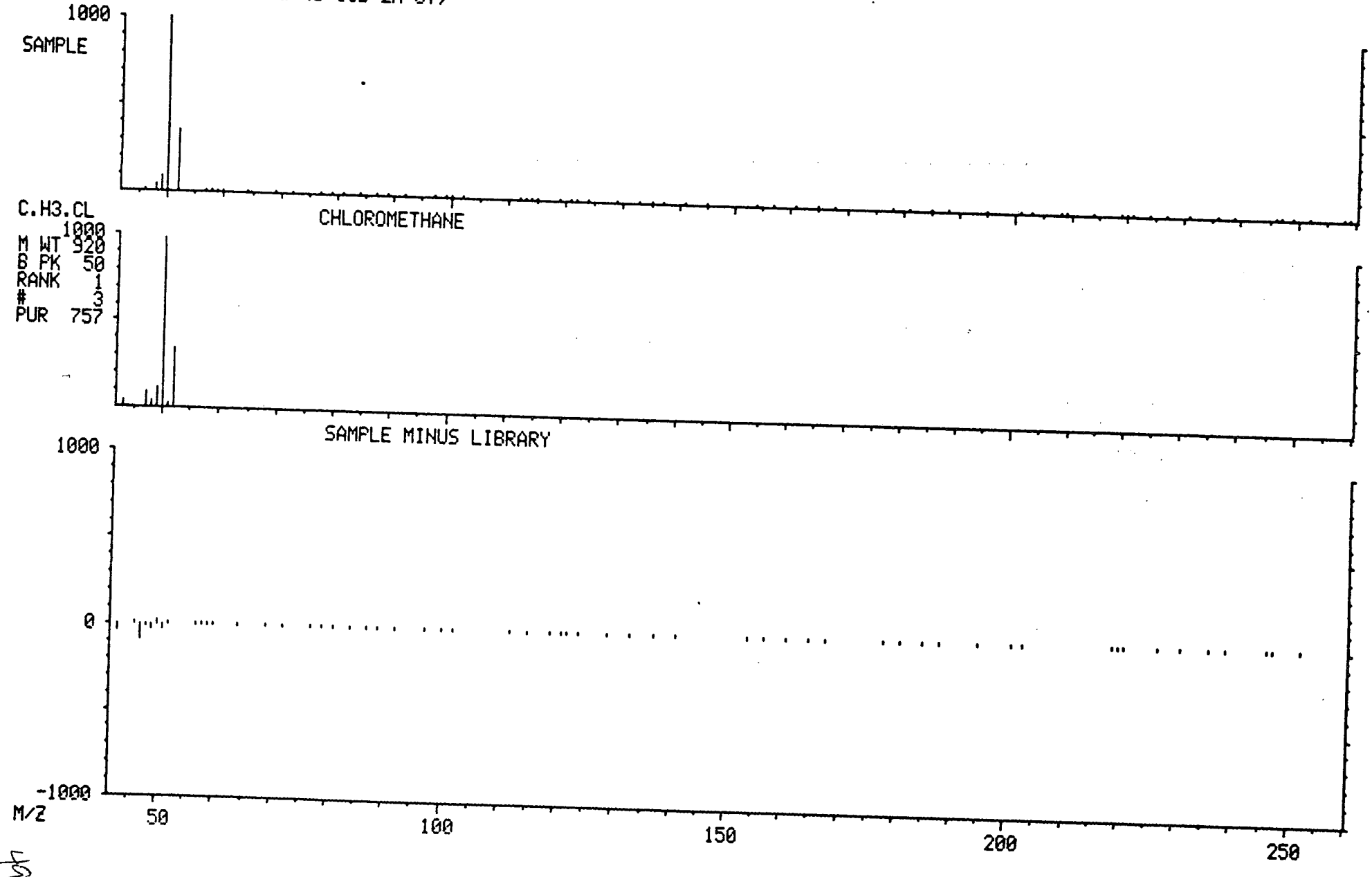
BASE M/Z: 50/ 44
RIC: 111487./ 324095.



LIBRARY SEARCH
08/28/87 19:53:00 + 1:21
SAMPLE: 100UL #BSA 0819789(1,2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7441 # 27
CALI: PU7441 # 2

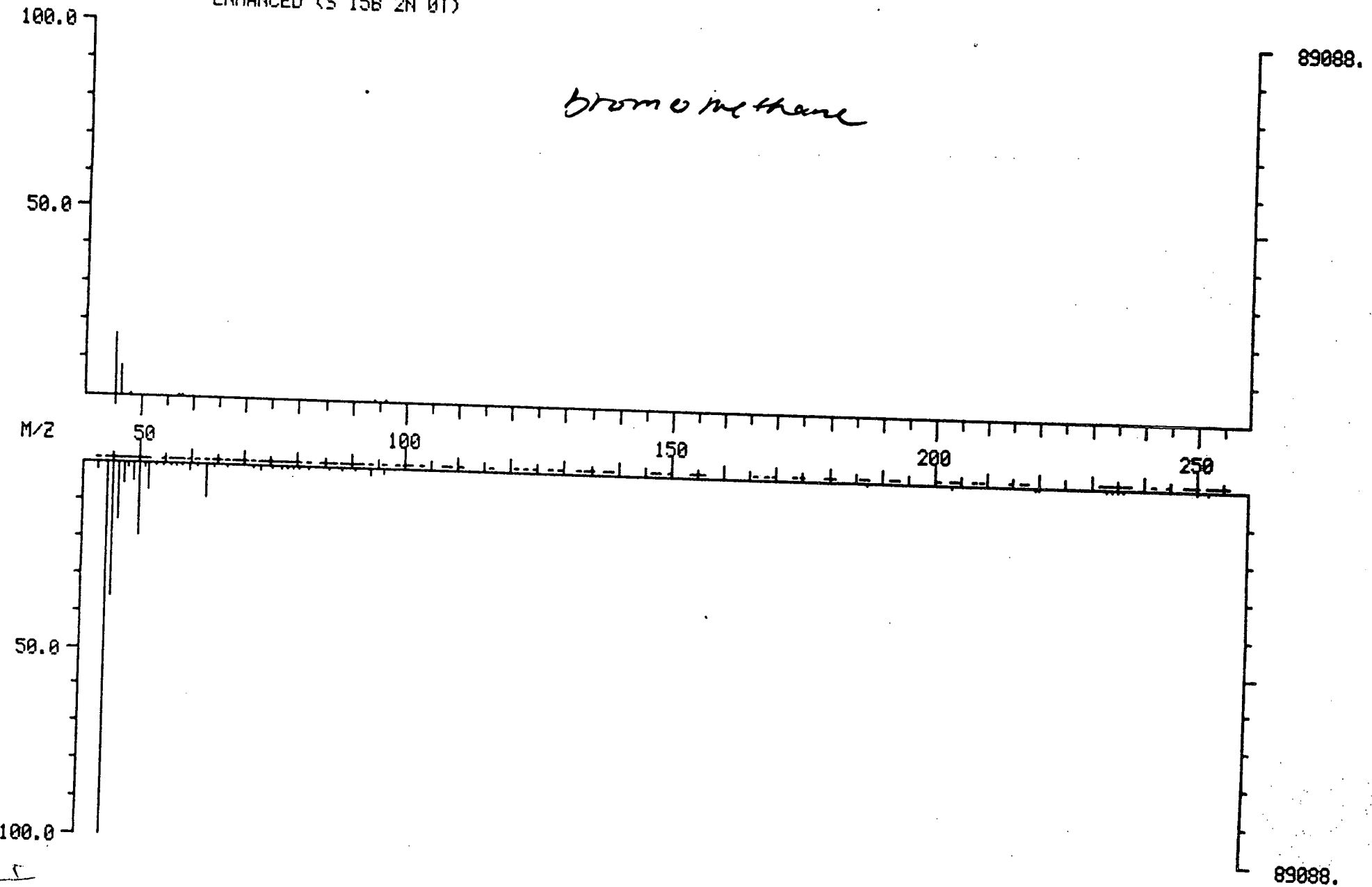
BASE M/Z: 50
RIC: 111103.



DUAL MASS SPECTRUM
08/28/87 19:59:00 + 2:03
SAMPLE: 100UL #BSA 0819783(1,2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7441 #41
CALI: PU7441 #2

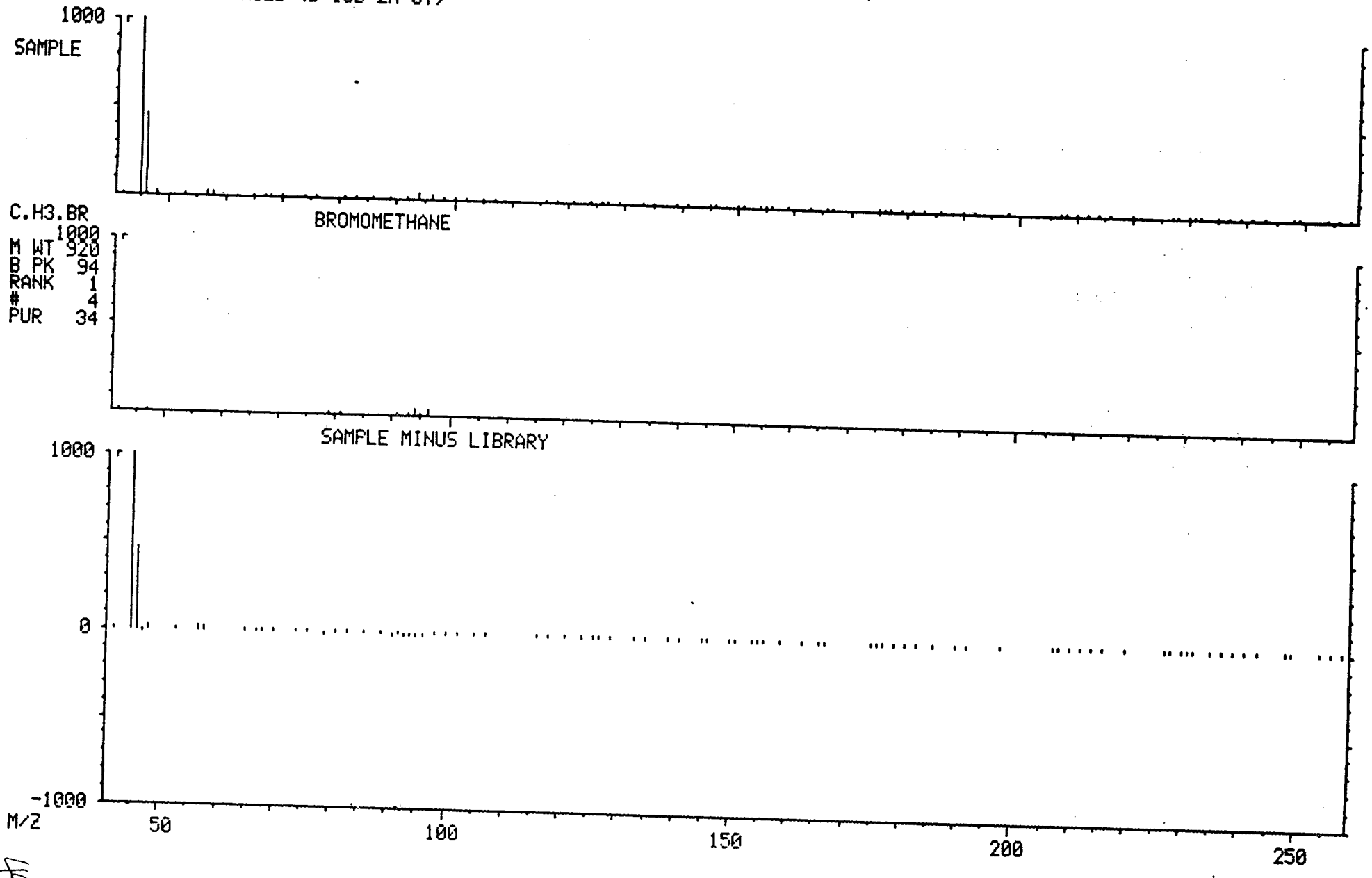
BASE M/Z: 45/ 44
RIC: 31487./ 211711.



LIBRARY SEARCH
08/28/87 19:59:00 + 2:03
SAMPLE: 100UL #BSA 0819789(1,2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7441 # 41
CALI: PU7441 # 2

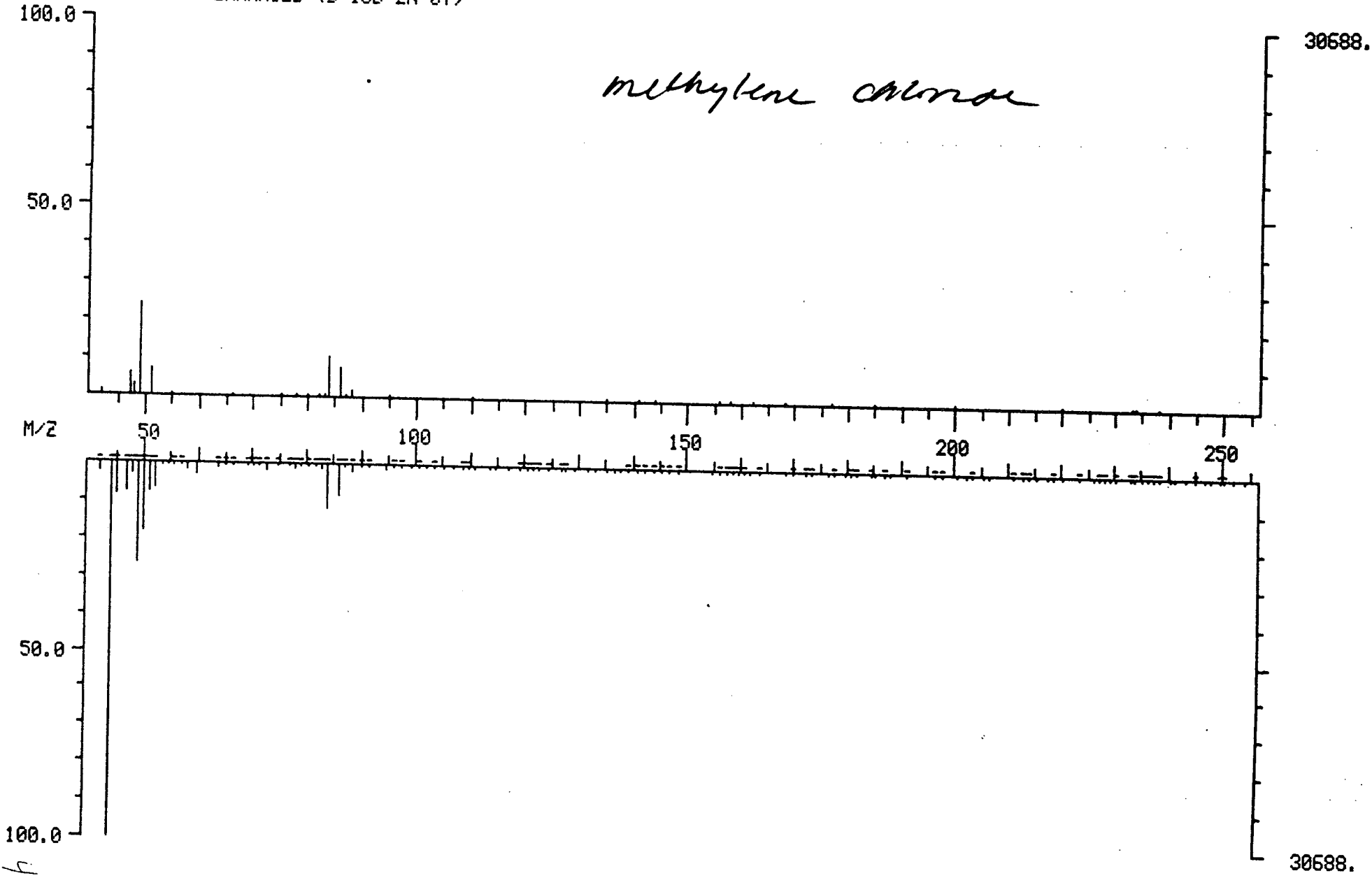
BASE M/Z: 45
RIC: 30591.



DUAL MASS SPECTRUM
08/28/87 19:59:00 + 4:27
SAMPLE: 100UL #BSA 0819789(1.2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7441 #89
CALI: PU7441 #2

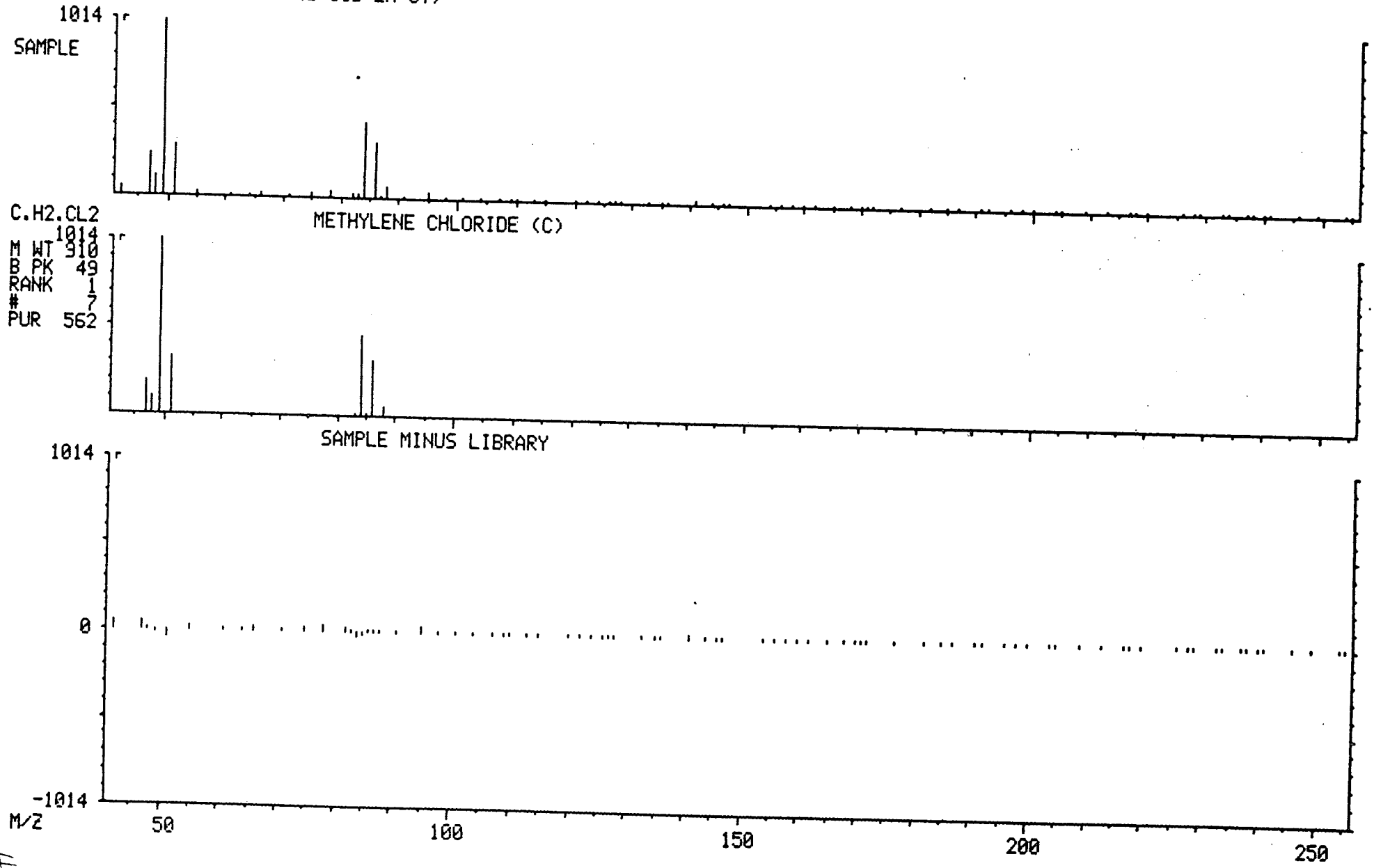
BASE M/Z: 49/ 44
RIC: 25311./ 81023.



LIBRARY SEARCH
08/28/87 19:59:00 + 4:27
SAMPLE: 100UL #BSA 0819789(1,2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7441 # 89
CALI: PU7441 # 2

BASE M/Z: 49
RIC: 25023.



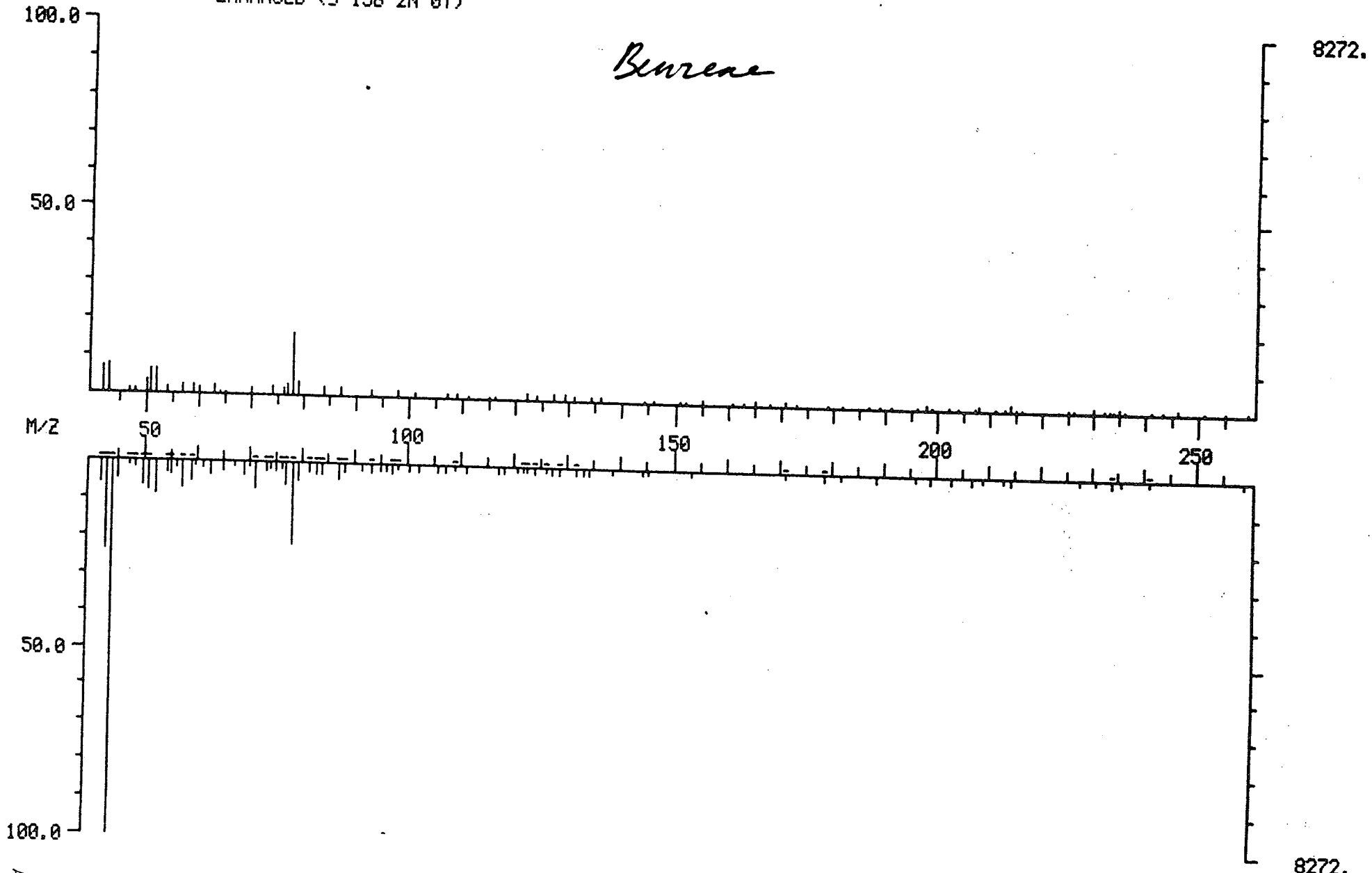
4/57

DUAL MASS SPECTRUM
08/28/87 19:59:00 + 17:09
SAMPLE: 100UL #BSA 0819789(1.2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7441 #343
CALI: PU7441 #2

BASE M/Z: 78/ 44
RIC: 10831./ 27455.

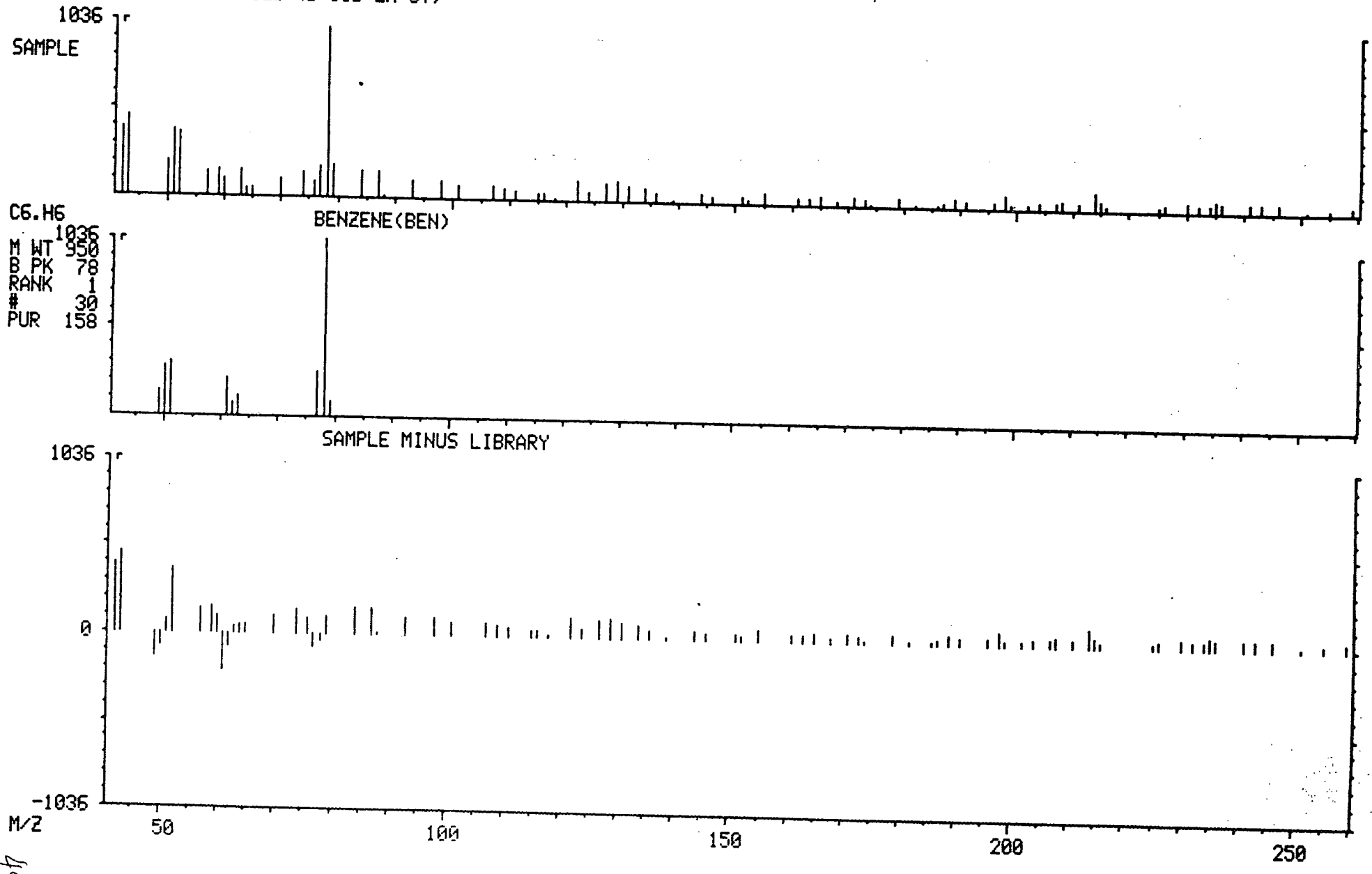
Benzene



LIBRARY SEARCH
08/28/87 19:59:00 + 17:09
SAMPLE: 100UL #BSA 0819789(1,2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7441 # 343
CALI: PU7441 # 2

BASE M/Z: 78
RIC: 10415.

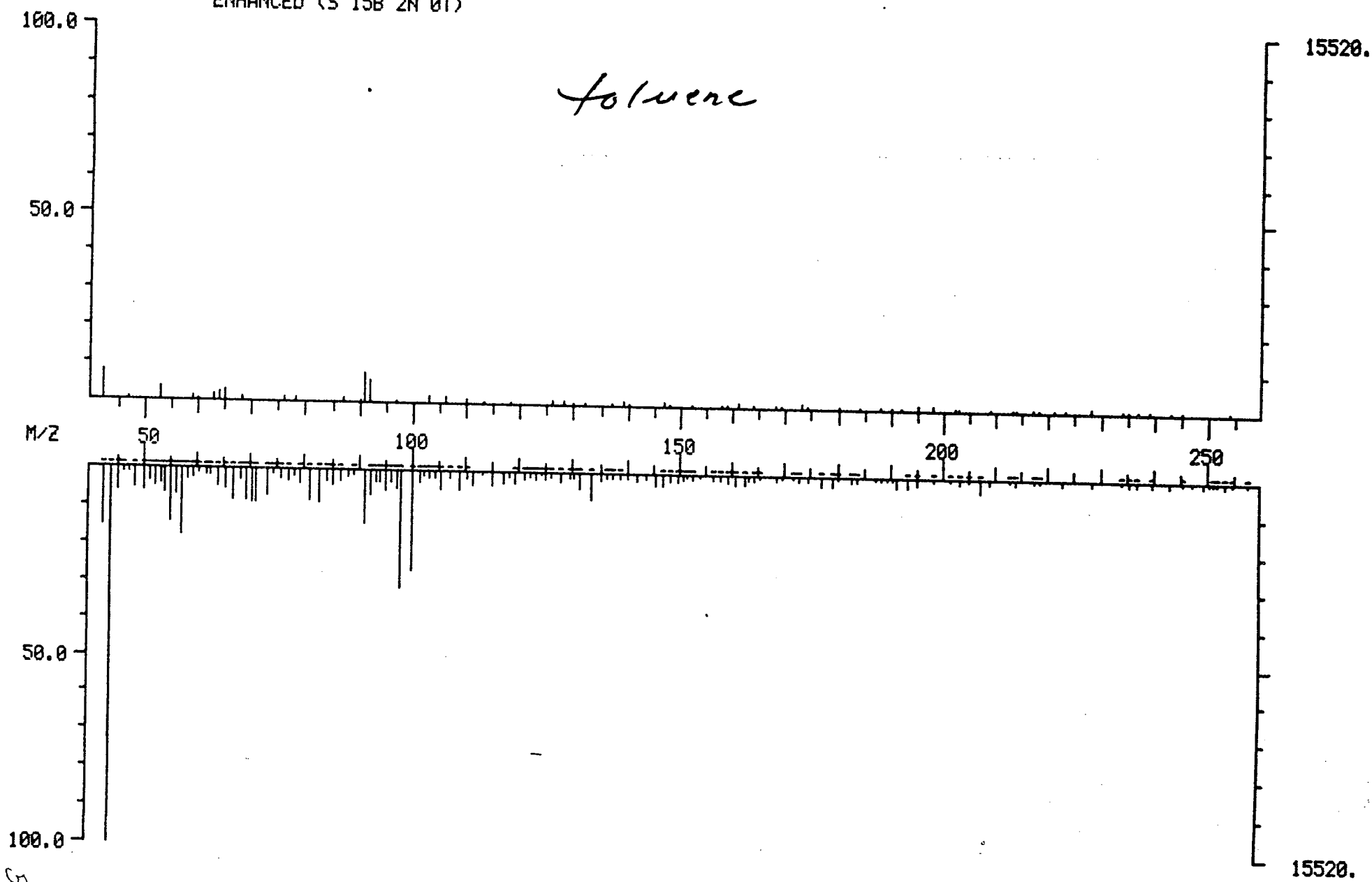


499

DUAL MASS SPECTRUM
08/28/87 19:59:00 + 25:15
SAMPLE: 100UL #BSA 0819789(1,2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7441 #505
CALI: PU7441 #2

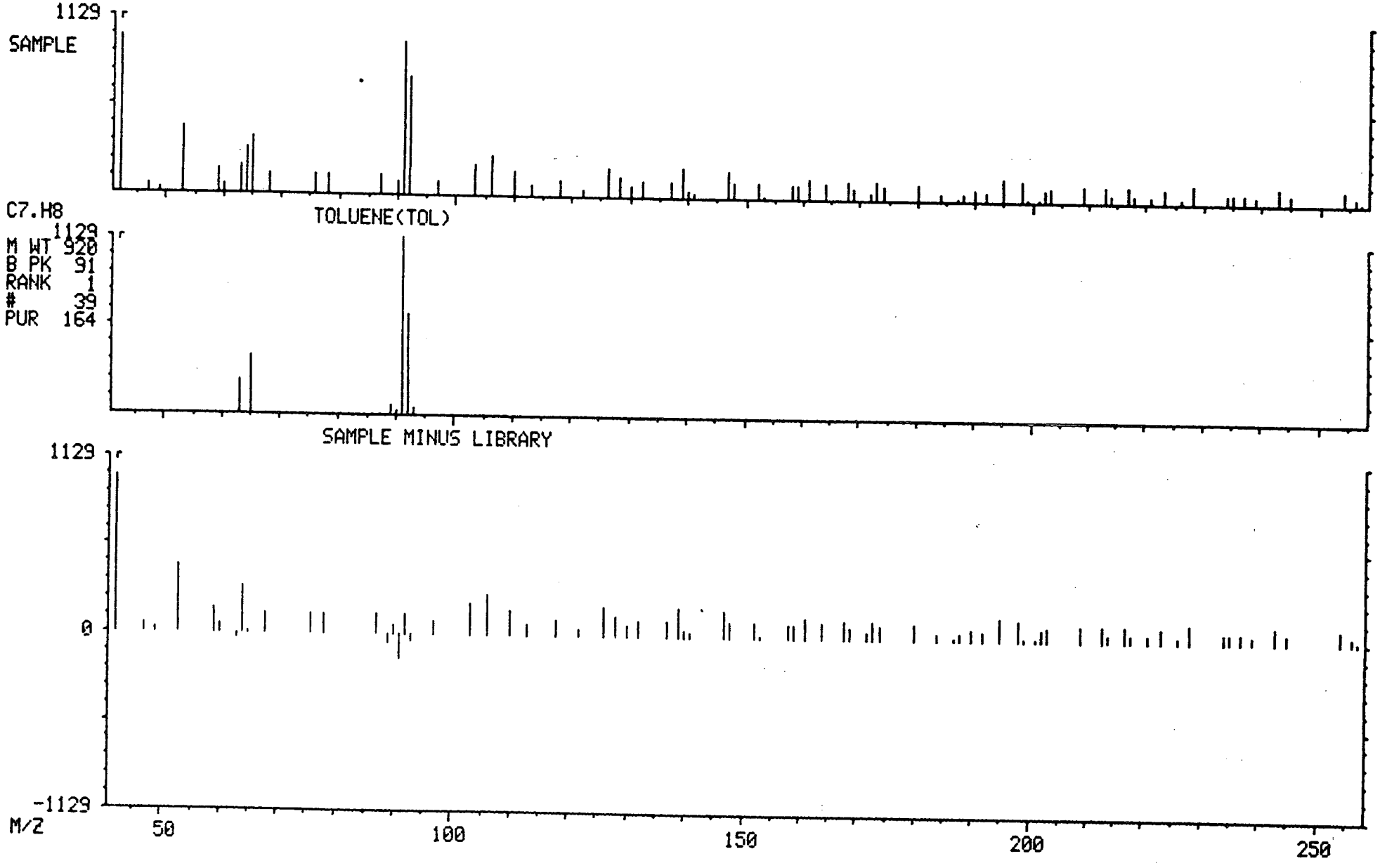
BASE M/Z: 42/ 44
RIC: 11871./ 83583.



LIBRARY SEARCH
08/28/87 19:59:00 + 25:15
SAMPLE: 100UL #BSA 0819789(1,2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7441 # 505
CALI: PU7441 # 2

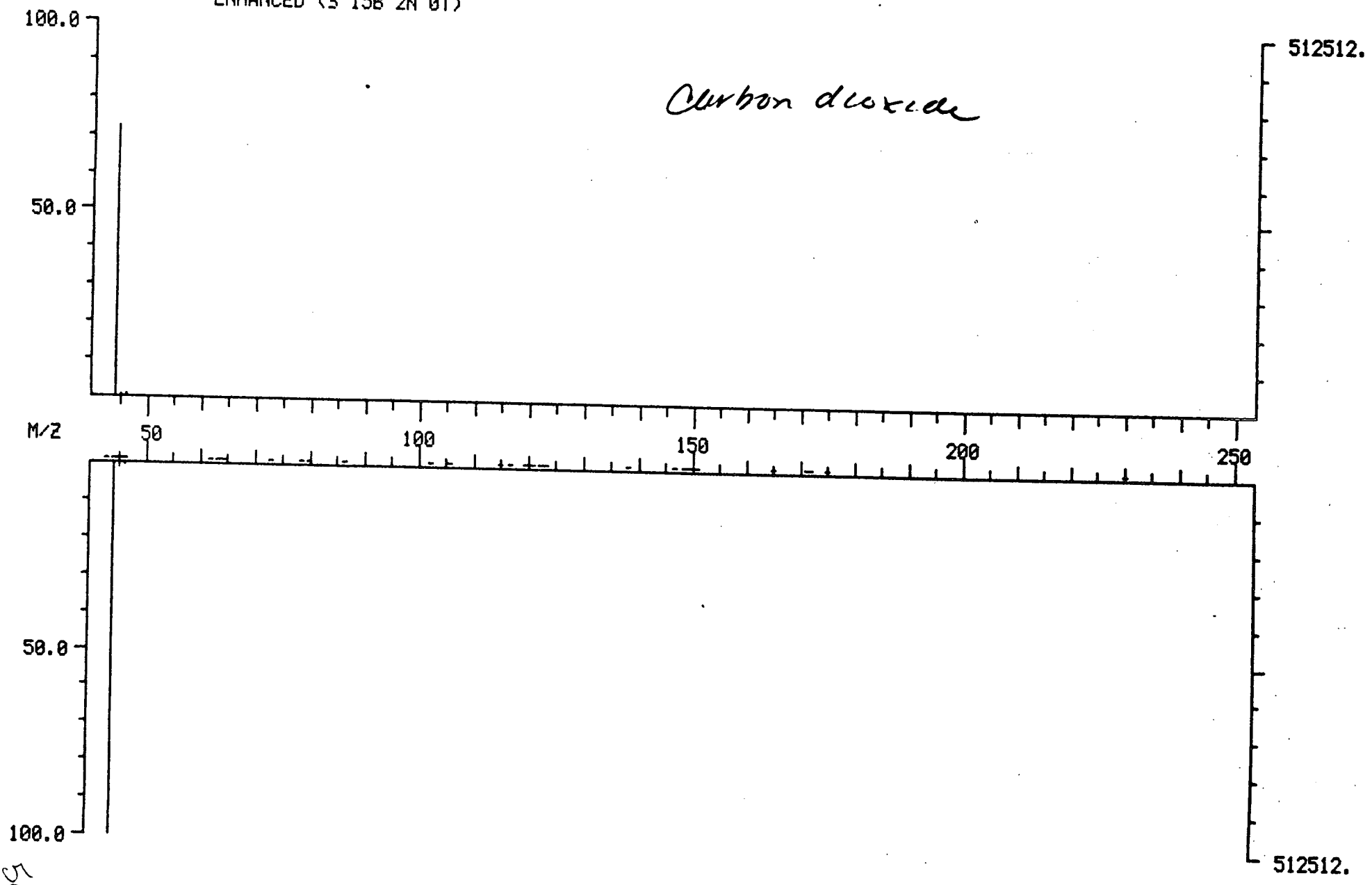
BASE M/Z: 42
RIC: 11807.



DUAL MASS SPECTRUM
08/28/87 19:59:00 + 0:42
SAMPLE: 100UL #BSA 0819789(1,2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7441 #14
CALI: PU7441 #2

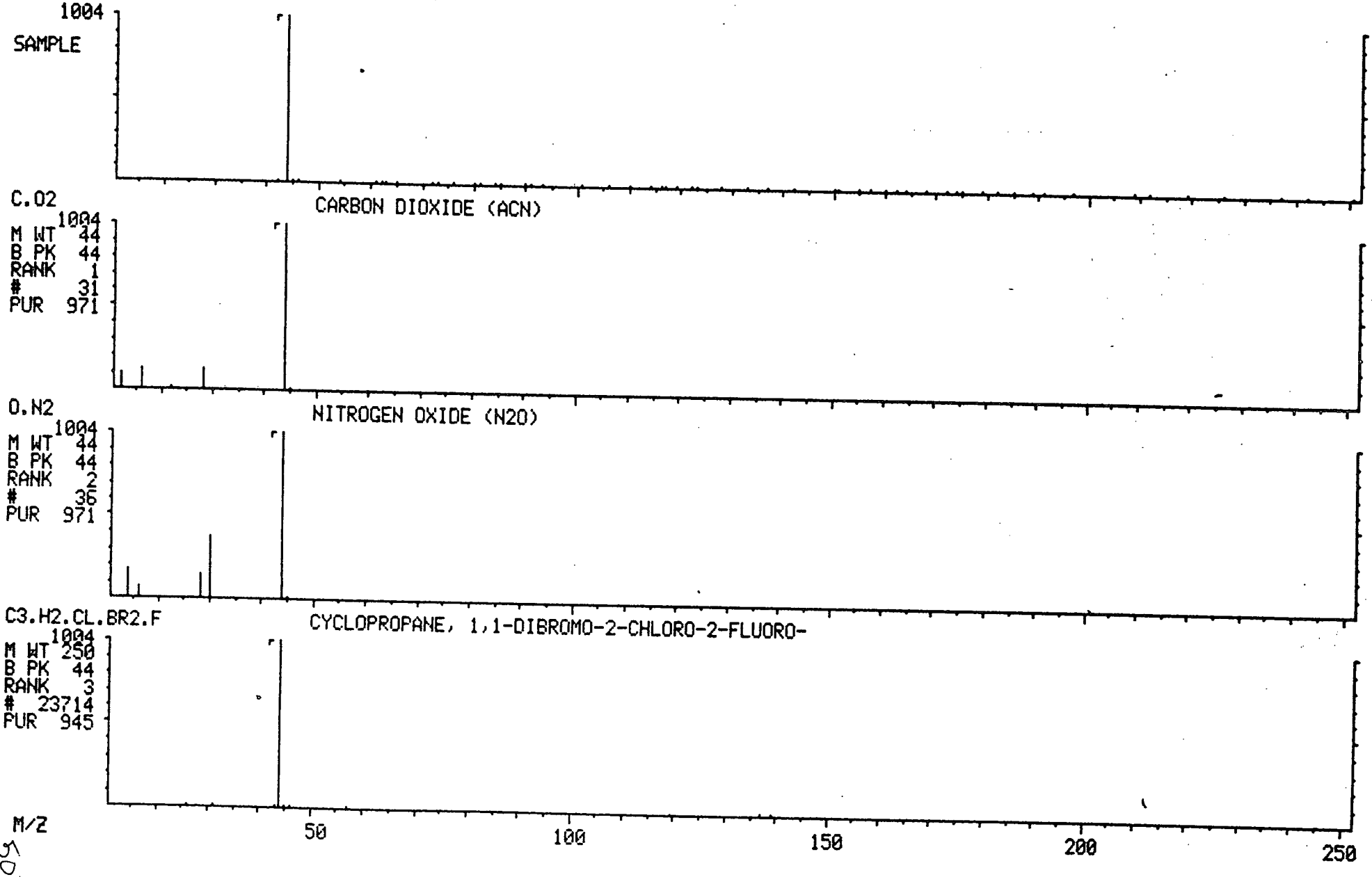
BASE M/Z: 44/ 44
RIC: 375295./ 521215.



LIBRARY SEARCH
08/28/87 19:59:00 + 0:42
SAMPLE: 100UL #BSA 0819789(1,2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7441 # 14
CALI: PU7441 # 2

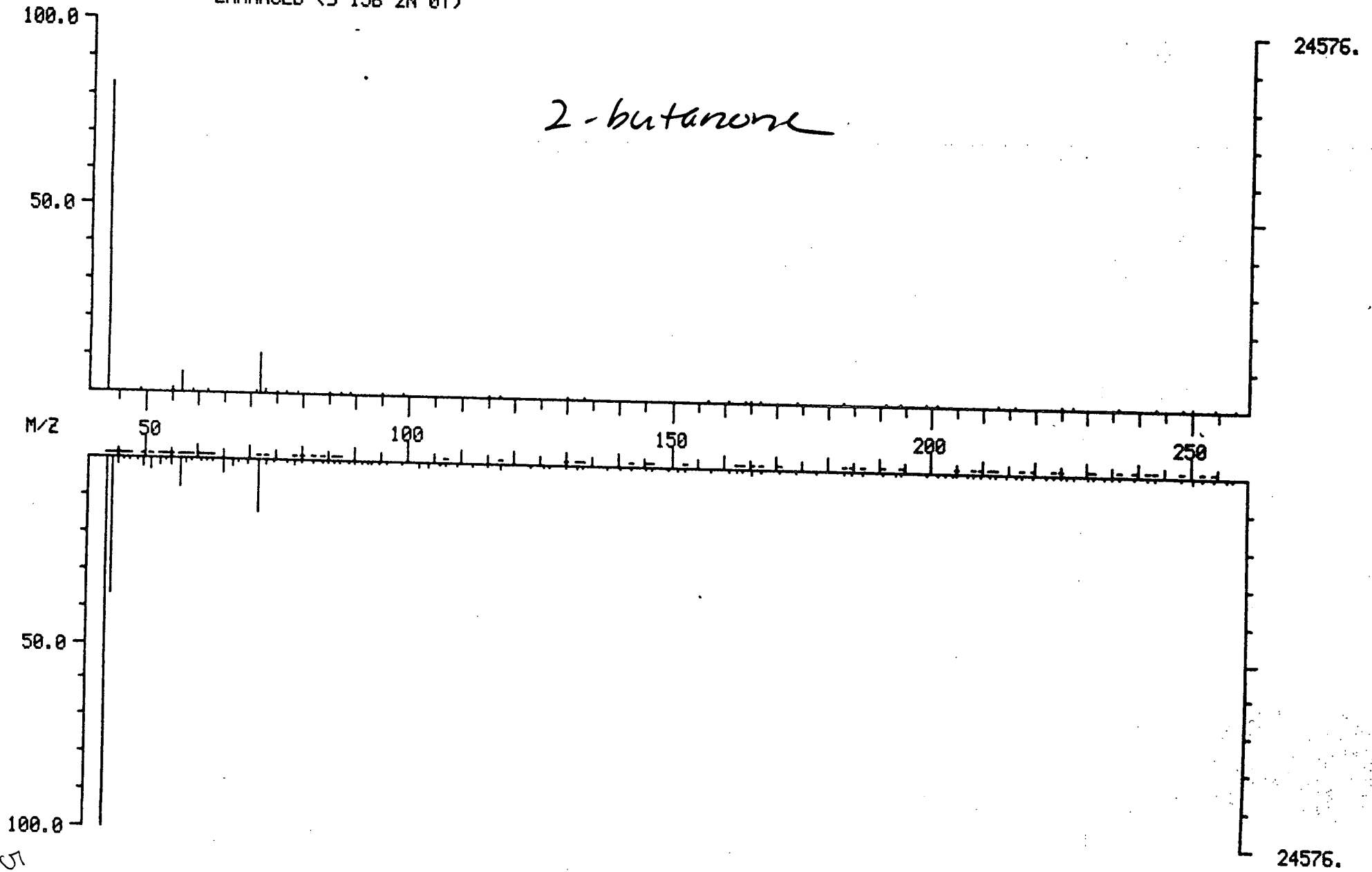
BASE M/Z: 44
RIC: 375295.



DUAL MASS SPECTRUM
08/28/87 19:59:00 + 11:15
SAMPLE: 100UL #BSA 0819789(1,2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7441 #225
CALI: PU7441 #2

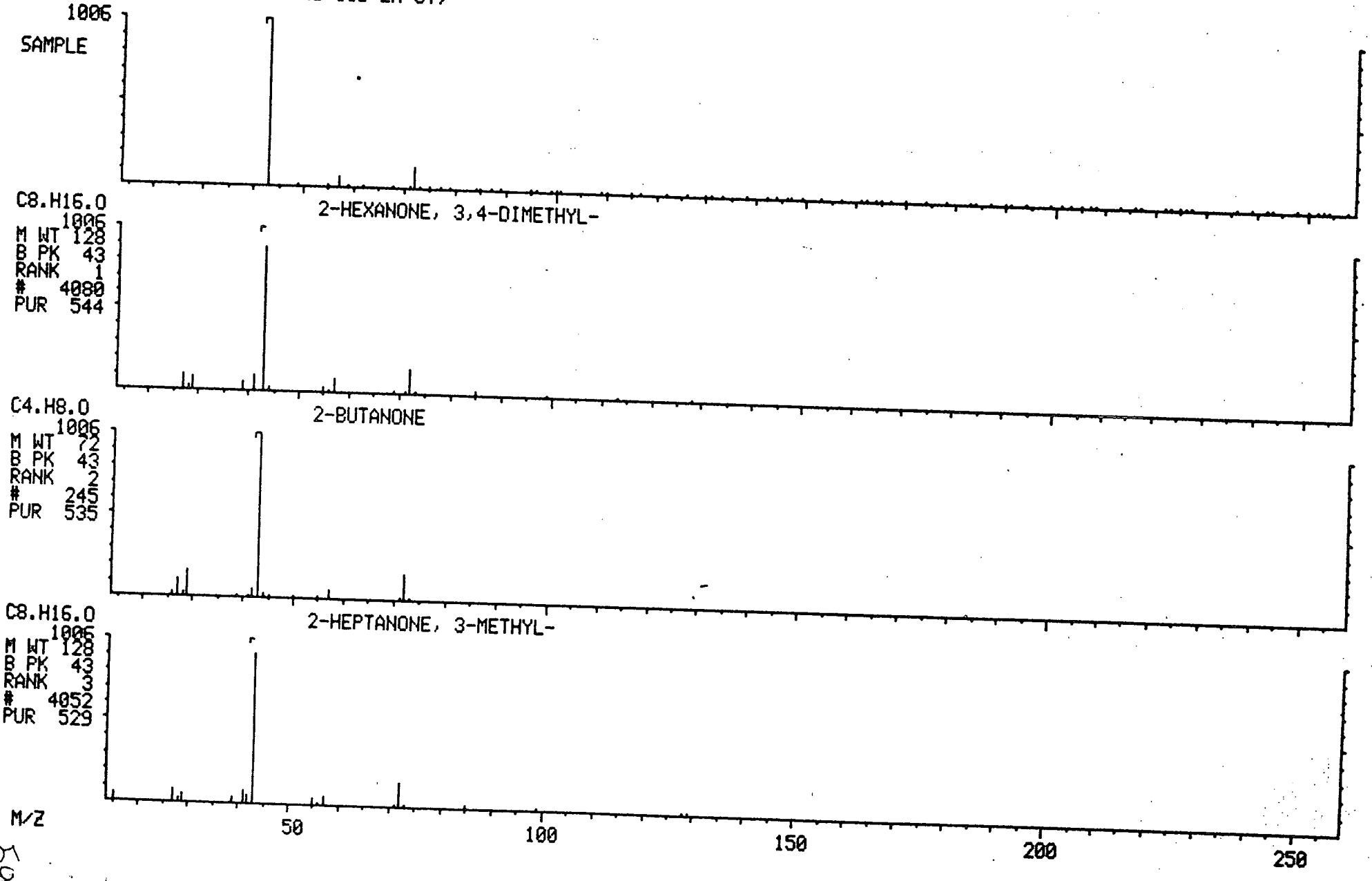
BASE M/Z: 43/ 43
RIC: 30975./ 57279.



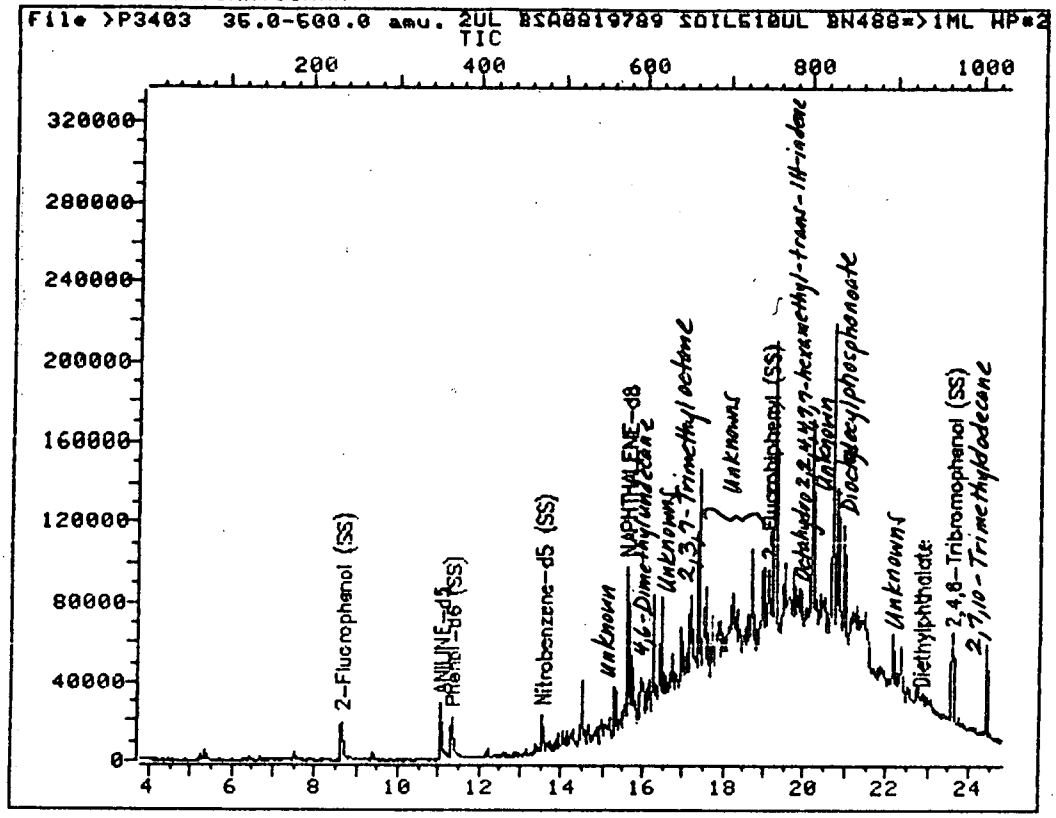
LIBRARY SEARCH
08/28/87 19:59:00 + 11:15
SAMPLE: 100UL #BSA 0819789(1,2133GMS=>5MLS MEOH)=>5MLS H2O
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7441 # 225
CALI: PU7441 # 2

BASE M/Z: 43
RIC: 30431.



TOTAL ION CHROMATOGRAM



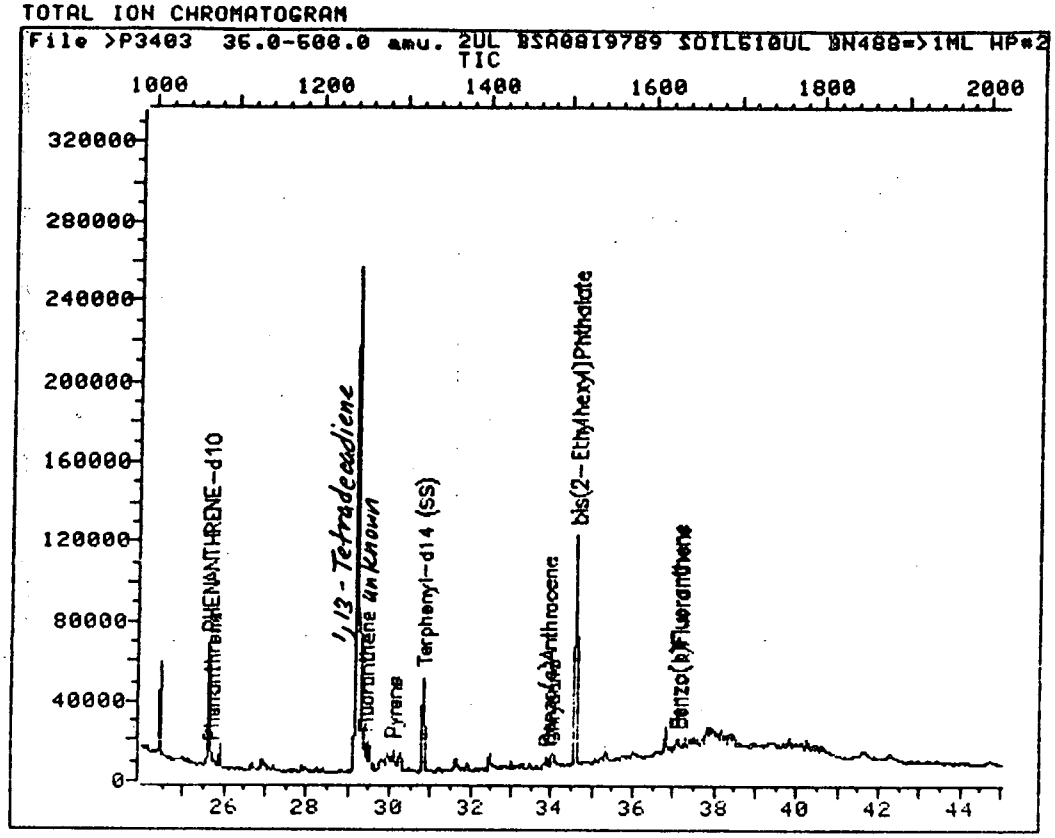
Data File: >P3403::B1 Quant Output File: ^P3403::QT
Name: 2UL BSA0819789 SOIL5
Misc: 10UL BN488=>1ML HP#2 579885 BNA [2ML] BTL#58

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

Operator ID: GLENN
Quant Time: 870910 23:08
Injected at: 870910 22:21

TIC page 1 of 2

TOTAL ION CHROMATOGRAM



Data File: >P3403::B1 Quant Output File: ^P3403::QT
Name: 2UL BSA0819789 SOIL5
Misc: 10UL BN488=>1ML HP#2 579885 BNA [2ML] BTL#58

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

Operator ID: GLENN
Quant Time: 870910 23:08
Injected at: 870910 22:21

TIC page 2 of 2

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 870910 23:08
Output File: ^P3403::QT Injected at: 870910 22:21
Data File: >P3403::B1 Dilution Factor: 1.00000
Name: 2UL BSA0819789 SOIL5
Misc: 10UL BN488=>1ML HP#2 579885 BNA [2ML] BTL#58

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.05	357	35123	42.85	ug/mL	98
3)	2-Fluorophenol (SS)	8.65	239	20101	34.63	ug/mL	49
6)	Phenol-d6 (SS)	11.34	371	32983	37.44	ug/mL	90
14)	*NAPHTHALENE-d8	15.60	580	61007	41.04	ug/mL	62
15)	Nitrobenzene-d5 (SS)	13.54	479	18372	20.82	ug/mL	71
29)	2-Fluorobiphenyl (SS)	19.10	751	28009	30.83	ug/mL	99
37)	Diethylphthalate	22.83	933	2008	1.31	ug/mL	87
40)	2,4,6-Tribromophenol (SS)	23.59	970	13376	50.96	ug/mL	84
41)	*PHENANTHRENE-d10	25.63	1070	43999	41.02	ug/mL	72
47)	Phenanthrene	25.69	1073	2251	1.17	ug/mL	52
50)	Fluoranthene	29.43	1256	10193	6.27	ug/mL	88
51)	Terphenyl-d14 (SS)	30.82	1324	46727	45.67	ug/mL	40
53)	Pyrene	30.09	1288	9597	5.87	ug/mL	56
56)	Benzo(a)Anthracene	33.91	1475	4591	3.51	ug/mL	76
57)	bis(2-Ethylhexyl)Phthalate	34.62	1510	67423	45.14	ug/mL	89
58)	Chrysene	34.01	1480	6078	4.89	ug/mL	94
60)	Benzo(b)Fluoranthene	37.10	1631	5646M	4.07	ug/mL	87
61)	Benzo(k)Fluoranthene	37.14	1633	4053M	4.43	ug/mL	86

* Compound is ISTD

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MS data file header from : >P3403

Sample: 2UL BSA0819789 SOIL5 Operator: GLENN MS 9/10/87 22:21
Misc : 10UL BN488=>1ML HP#2 579885 BNA [2ML] BTL#58
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

>P3403 2UL BSA0819789 SOIL510UL BN488=>1ML HP#2 579885 BNA [2ML]
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 10979. Max Peaks: 20 Bunching: 1
Dnslope: 0.00 Results File IP3403 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	15.29	562	565	568	25152	169106	82473	9.17	2.488
2	16.25	610	612	617	59675	369887	163627	18.19	4.935
3	16.46	617	622	624	53399	422809	168950	18.78	5.096
4	16.95	643	646	648	30020	314646	88966	9.89	2.683
5	17.17	654	657	659	42959	385503	134157	14.91	4.046
6	17.38	665	667	669	103206	413434	196006	21.79	5.912
7	17.52	669	674	676	42892	549916	154352	17.16	4.656
8	17.71	680	683	685	30379	355532	96680	10.75	2.916
9	18.20	705	707	710	28382	455652	104084	11.57	3.139
10	18.69	728	731	734	47199	563359	122602	13.63	3.698
11	18.97	742	745	746	27336	415436	70616	7.85	2.130
12	19.73	780	782	784	23993	420492	67408	7.49	2.033
13	20.20	800	805	808	97953	1004777	295630	32.86	8.917
14	20.68	826	828	829	41748	363986	64181	7.13 16	1.936
15	20.98	842	843	846	58941	408946	119874	13.33 29	3.616
16	22.17	898	901	904	26582	347050	67679	7.52 17	2.041
17	22.36	908	910	915	28082	360142	103079	11.46 25	3.109
18	24.45	1009	1012	1015	45540	200464	105935	11.78 26	3.195
19	29.21	1241	1245	1248	249570	953401	899540	100.00 220	27.132
20	29.29	1248	1249	1252	76914	241663	209588	23.30 51	6.322

Sum of corrected areas: 3315427.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	42.8	109786.	11.05	3.80 - 13.33
2	41.0	202862.	15.60	13.33 - 20.62
3	41.0	188655.	25.63	20.62 - 45.05

Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00

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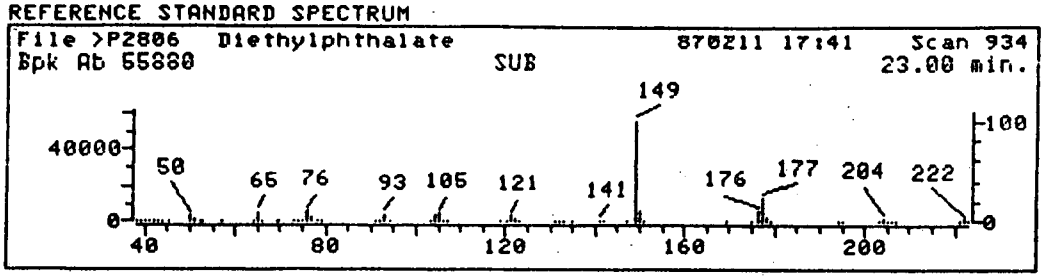
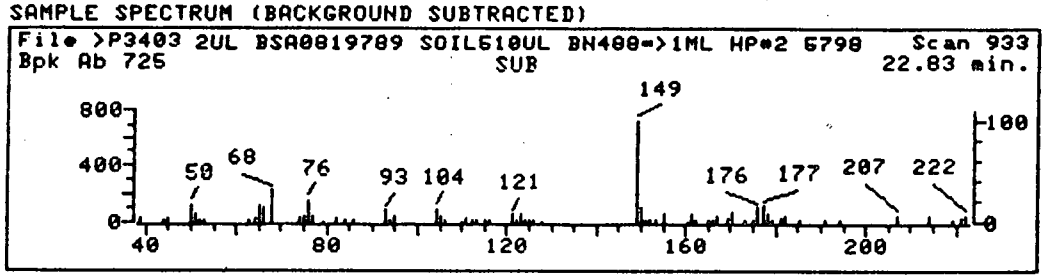
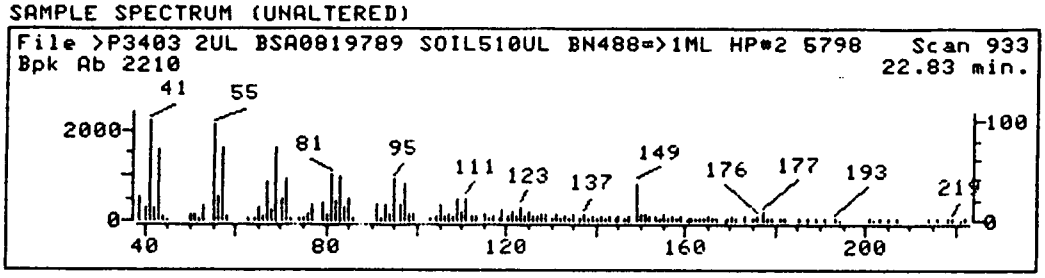
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

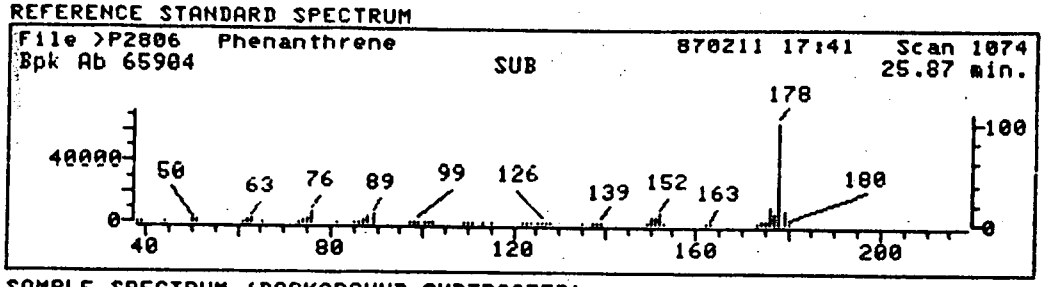


Data File: >P3403::B1 Quant Output File: ^P3403::QT
Name: 2UL BSA0819789 SOIL5
Misc: 10UL BN488=>1ML HP#2 579885 BNA [2ML] BTL#58
Quant Time: 870910 23:08 Quant ID File: ID_625::ME
Injected at: 870910 22:21 Last Calibration: 870910 15:35

Compound No: 37
Compound Name: Diethylphthalate
Scan Number: 933
Retention Time: 22.83 min.
Quant Ion: 149.0
Area: 2008
Concentration: 1.31 ug/mL
q-value: 87

510

REFERENCE STANDARD SPECTRUM



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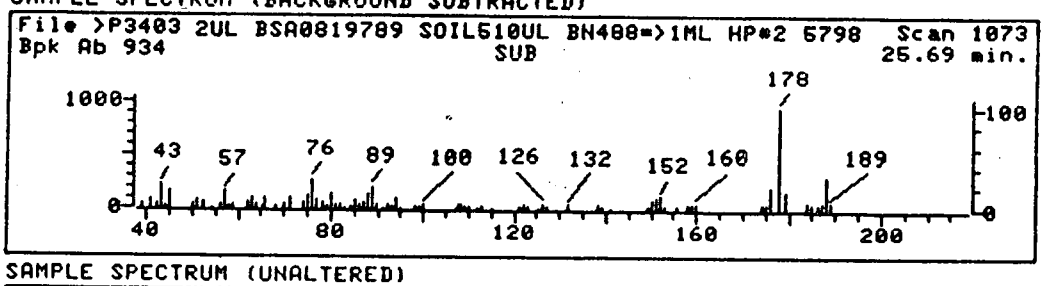

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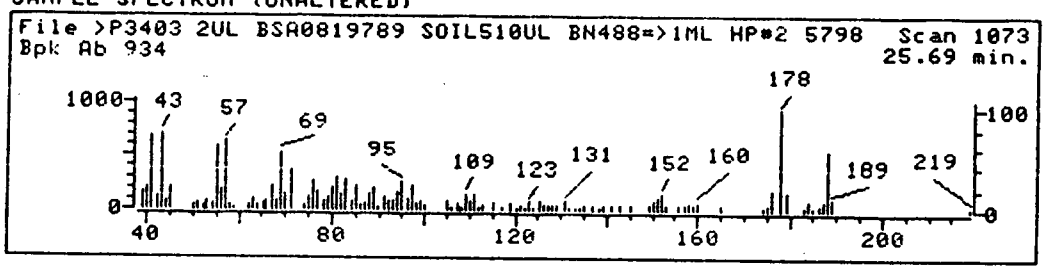
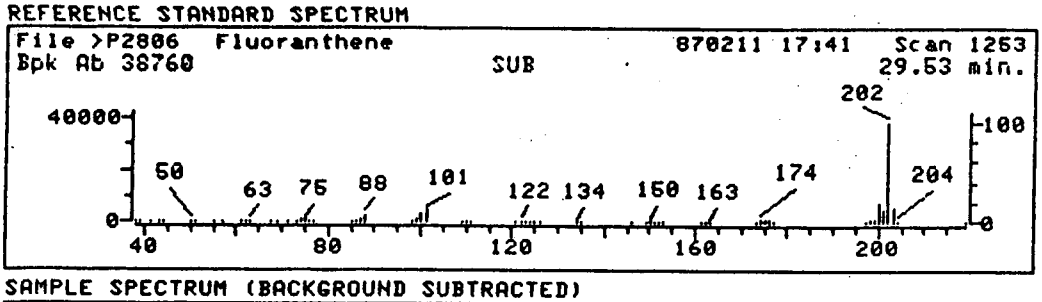


Data File: >P3403::B1 Quant Output File: ^P3403::QT
Name: 2UL BSA0819789 SOIL5
Misc: 10UL BN488=>1ML HP#2 579885 BNA [2ML] BTL#58
Quant Time: 870910 23:08 Quant ID File: ID_625::MF
Injected at: 870910 22:21 Last Calibration: 870910 15:25

Compound No: 47
Compound Name: Phenanthrene
Scan Number: 1073
Retention Time: 25.69 min.
Quant Ion: 178.0
Area: 2251
Concentration: 1.17 ug/mL
q-value: 52

REFERENCE STANDARD SPECTRUM



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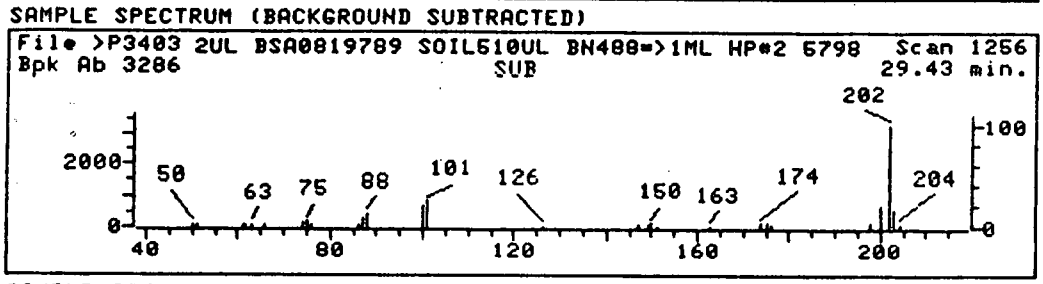

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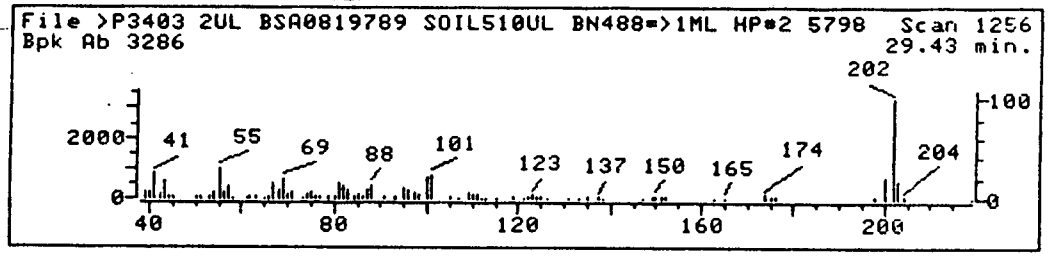
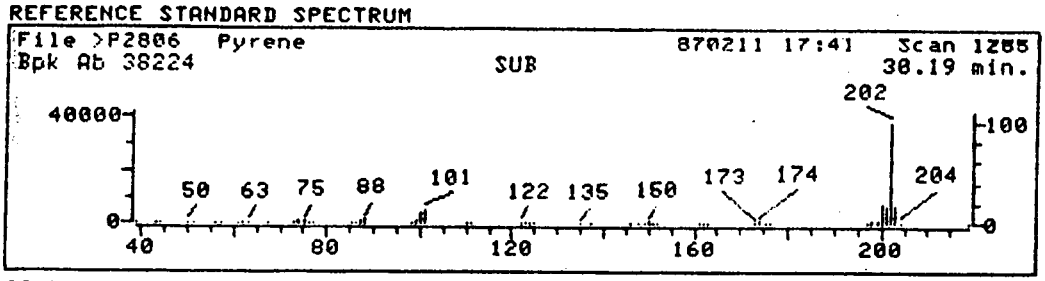


Data File: >P3403::B1 Quant Output File: ^P3403::QT
Name: 2UL BSA0819789 SOIL5
Misc: 10UL BN488=>1ML HP#2 579885 BNA [2ML] BTL#58
Quant Time: 870910 23:08 Quant ID File: ID_625::ME
Injected at: 870910 22:21 Last Calibration: 870910 15:35

Compound No: 50
Compound Name: Fluoranthene
Scan Number: 1256
Retention Time: 29.43 min.
Quant Ion: 202.0
Area: 10193
Concentration: 6.27 ug/mL
q-value: 88

REFERENCE STANDARD SPECTRUM



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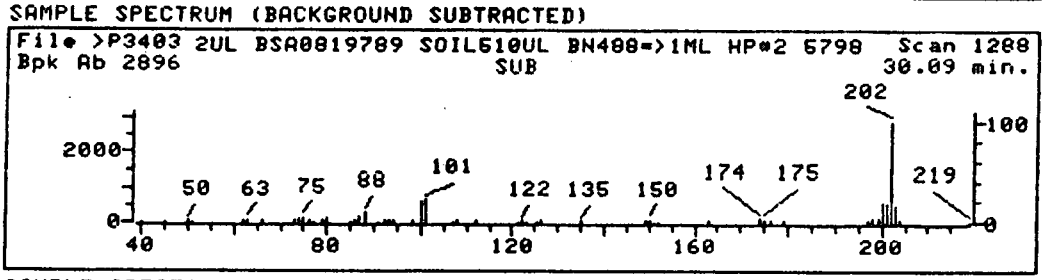

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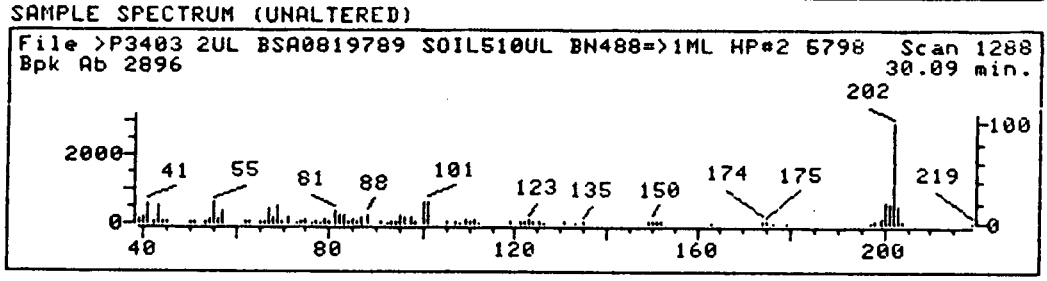
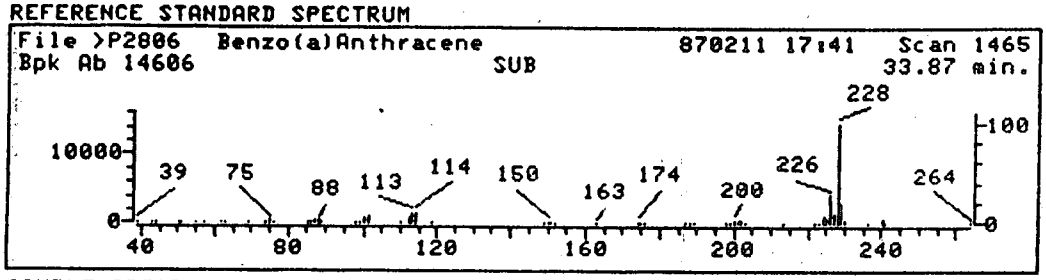


Data File: >P3403::B1 Quant Output File: ^P3403::QT
Name: 2UL BSA0819789 SOIL5
Misc: 10UL BN488=>1ML HP#2 579885 BNA [2ML] BTL#58
Quant Time: 870910 23:08 Quant ID File: ID_625::ME
Injected at: 870910 22:21 Last Calibration: 870910 15:35

Compound No: 53
Compound Name: Pyrene
Scan Number: 1288
Retention Time: 30.09 min.
Quant Ion: 202.0
Area: 9597
Concentration: 5.87 ug/mL
q-value: 56

REFERENCE STANDARD SPECTRUM



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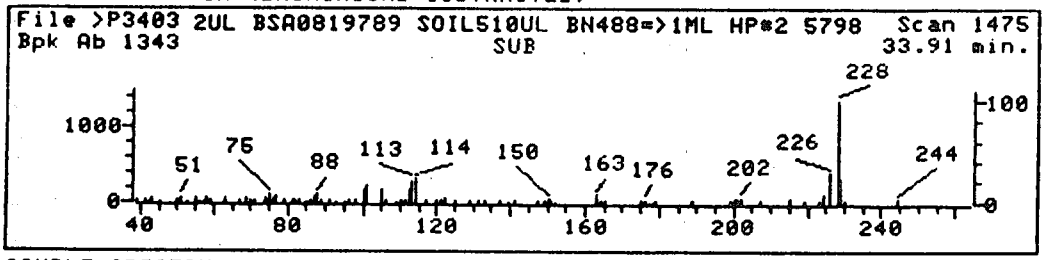

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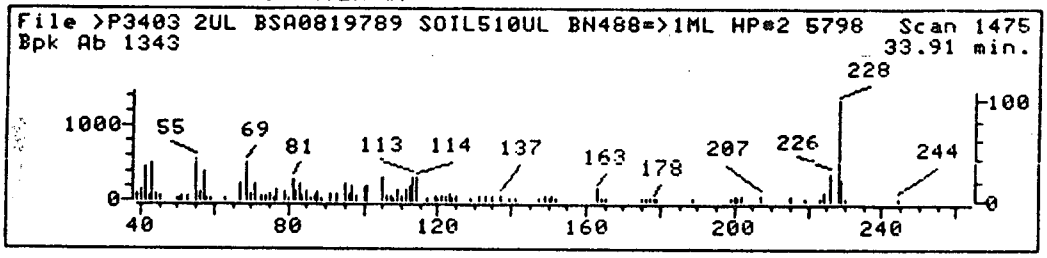
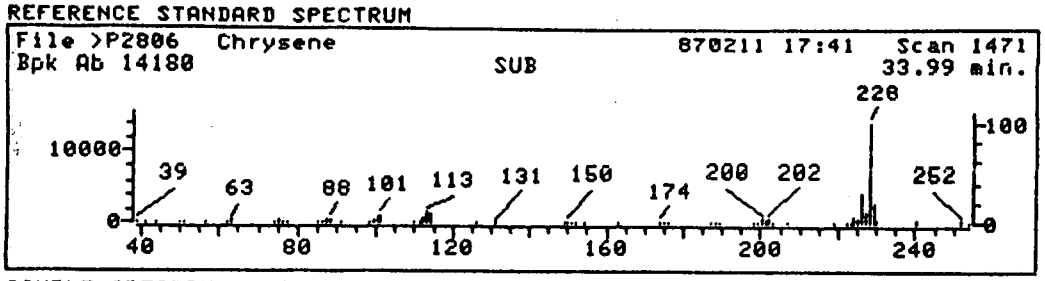


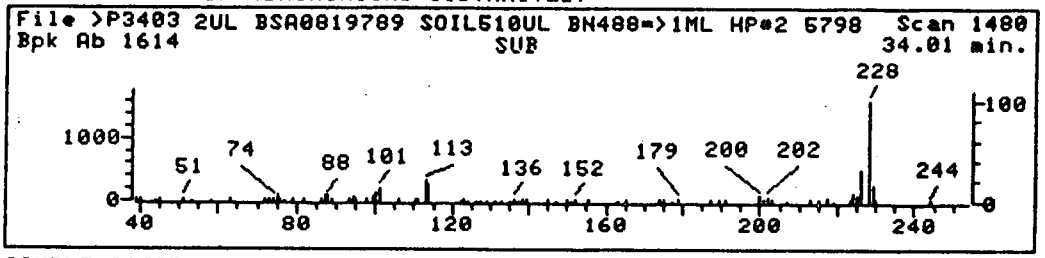
Data File: >P3403::B1 Quant Output File: ^P3403::QT
Name: 2UL BSA0819789 SOIL5
Misc: 10UL BN488=>1ML HP#2 579885 BNA [2ML] BTL#58
Quant Time: 870910 23:08 Quant ID File: ID_625::ME
Injected at: 870910 22:21 Last Calibration: 870910 15:35

Compound No: 56.
Compound Name: Benzo(a)Anthracene
Scan Number: 1475
Retention Time: 33.91 min.
Quant Ion: 228.0
Area: 4591
Concentration: 3.51 ug/mL
q-value: 76

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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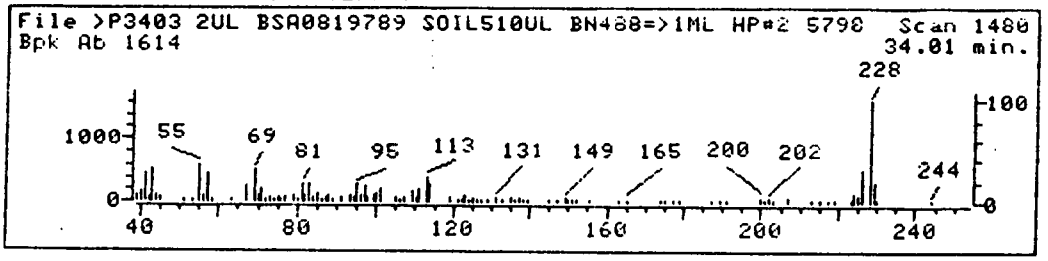
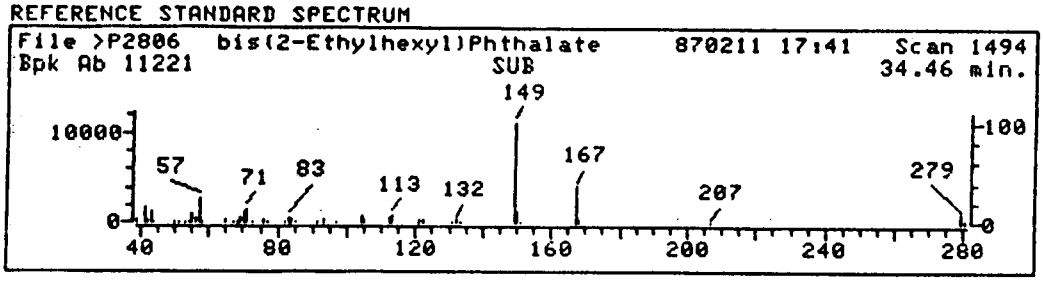


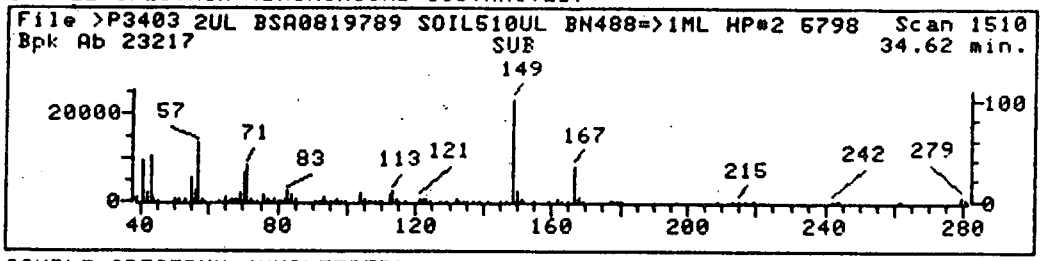
Data File: >P3403::B1 Quant Output File: ^P3403::QT
Name: 2UL BSA0819789 SOIL5
Misc: 10UL BN488=>1ML HP#2 579885 BNA [2ML] BTL#58
Quant Time: 870910 23:08 Quant ID File: ID_625::ME
Injected at: 870910 22:21 Last Calibration: 870910 15:35

Compound No: 58
Compound Name: Chrysene
Scan Number: 1480
Retention Time: 34.01 min.
Quant Ion: 228.0
Area: 6078
Concentration: 4.89 ug/mL
q-value: 94

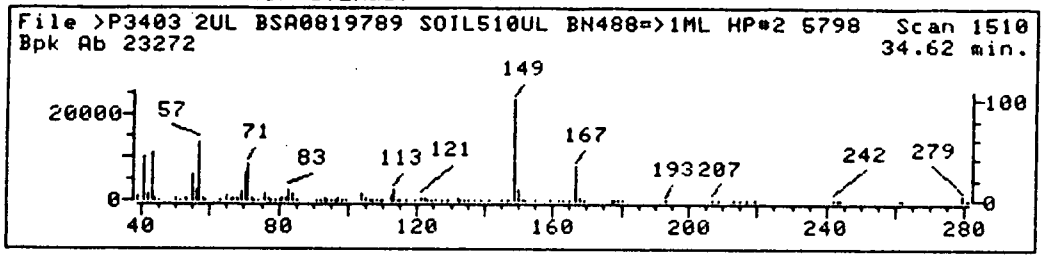
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



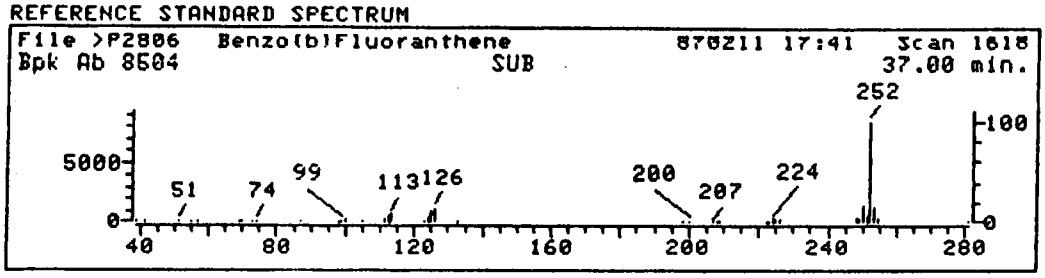
SAMPLE SPECTRUM (UNALTERED)



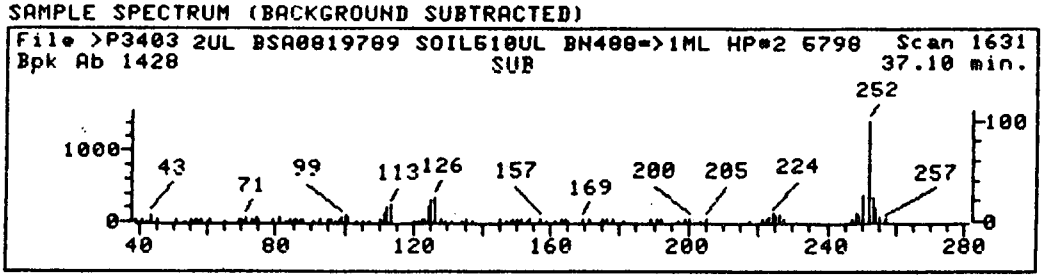
Data File: >P3403::B1 Quant Output File: ^P3403::QT
Name: 2UL BSA0819789 SOIL5
Misc: 10UL BN488=>1ML HP#2 579885 BNA [2ML] BTL#58
Quant Time: 870910 23:08 Quant ID File: ID_625::ME
Injected at: 870910 22:21 Last Calibration: 870910 15:35

Compound No: 57
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1510
Retention Time: 34.62 min.
Quant Ion: 149.0
Area: 67423
Concentration: 45.14 ug/mL
q-value: 85

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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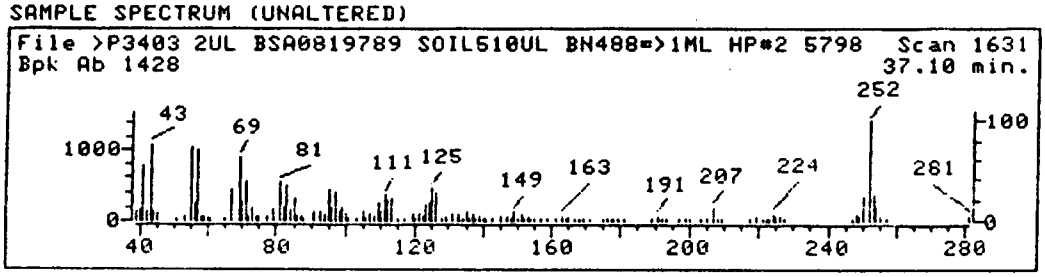
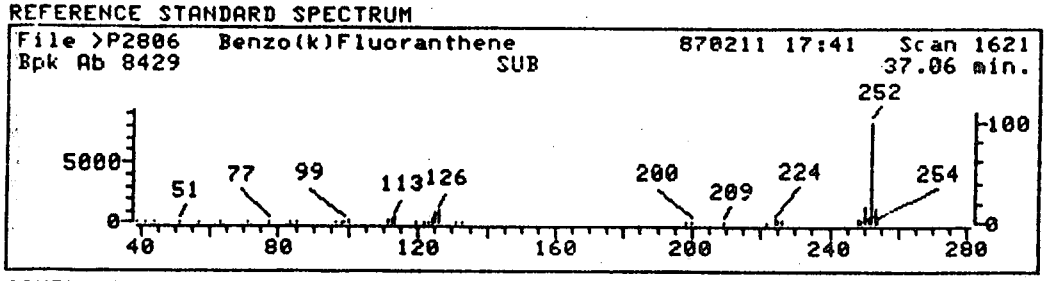


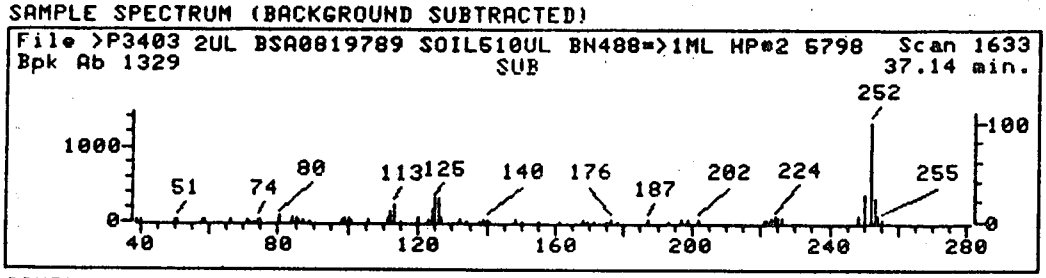
Data File: >P3403::B1 Quant Output File: ^P3403::QT
Name: 2UL BSA0819789 SOIL5
Misc: 10UL BN488=>1ML HP#2 579885 BNA [2ML] BTL#58
Quant Time: 870910 23:08 Quant ID File: ID_625::MS
Injected at: 870910 22:21 Last Calibration: 870910 15:35

Compound No: 60
Compound Name: Benzo(b)Fluoranthene
Scan Number: 1631
Retention Time: 37.10 min.
Quant Ion: 252.0
Area: 5646M
Concentration: 4.07 ug/mL
q-value: 87

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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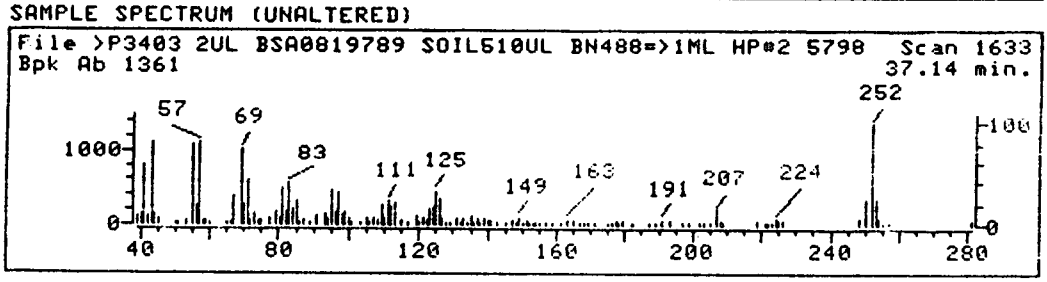
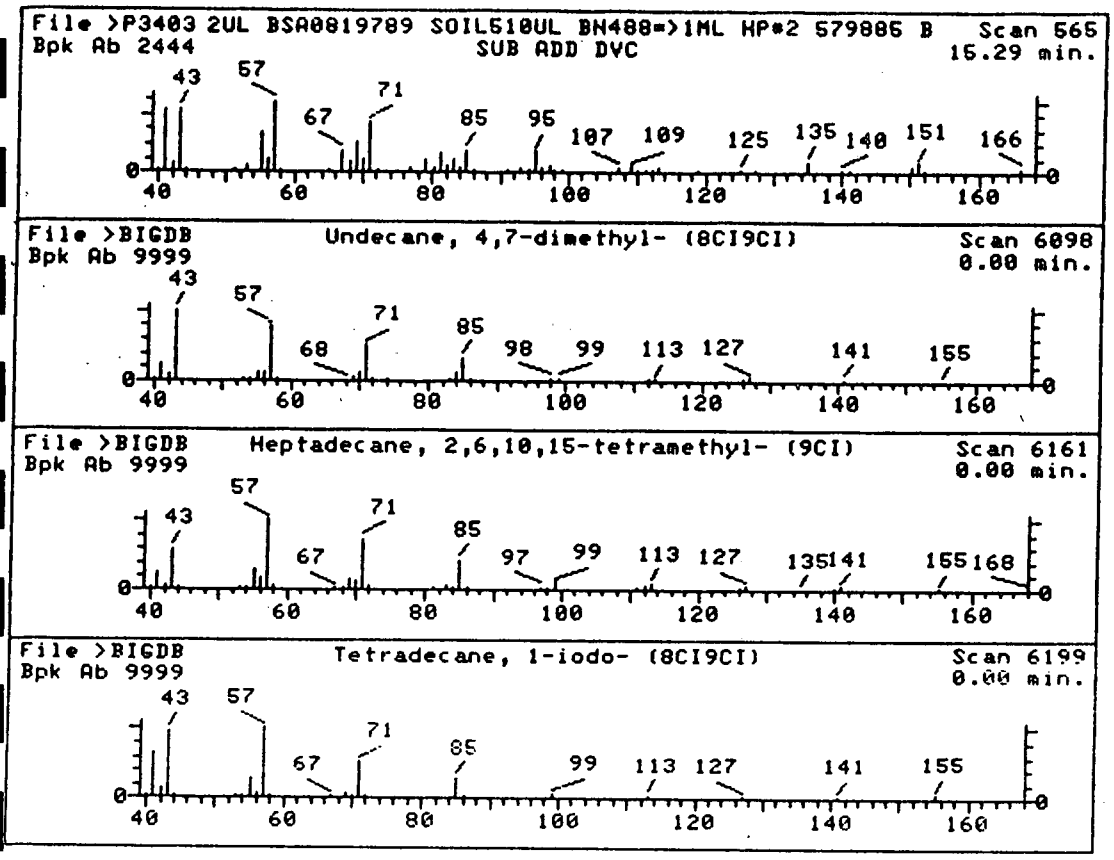


Data File: >P3403::B1 Quant Output File: ^P3403::QT
Name: 2UL BSA0819789 SOIL5
Misc: 10UL BN488=>1ML HP#2 [illegible] BNA [2ML] BTL[illegible]
Quant Time: 870910 23:08 Quant ID File: ID_625::ME
Injected at: 870910 22:21 Last Calibration: 870910 15:35

Compound No: 61
Compound Name: Benzo(k)Fluoranthene
Scan Number: 1633
Retention Time: 37.14 min.
Quant Ion: 252.0
Area: 4053M
Concentration: 4.43 ug/mL
q-value: 86

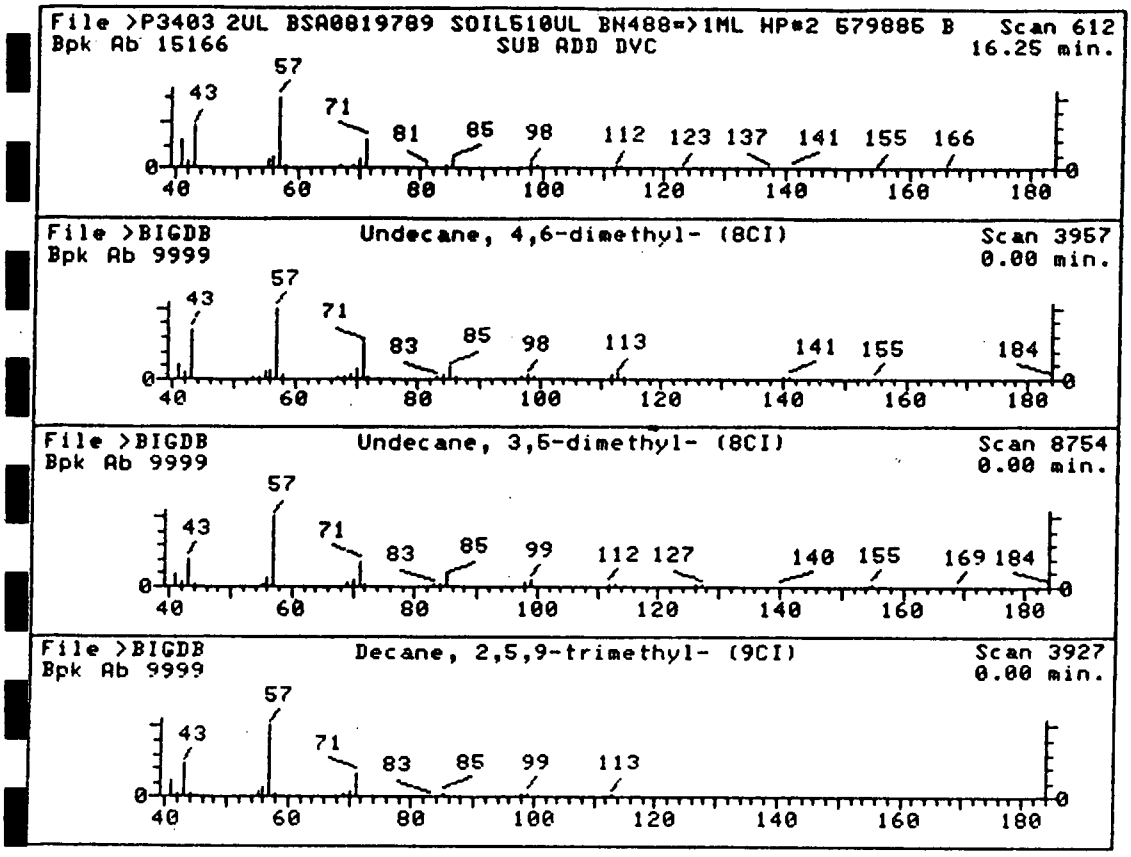


. Unknown #,1
Area = 82473.00 Tentative Concentration is 17.00

1.	Undecane, 4,7-dimethyl- (8CI9CI)	184 C13H28
2.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
3.	Tetradecane, 1-iodo- (8CI9CI)	324 C14H29I
4.	Dodecane, 2,6,11-trimethyl- (8CI9CI)	212 C15H32
5.	Hexane, 3,3-dimethyl- (8CI9CI)	114 C8H18
6.	Undecane, 3,8-dimethyl- (8CI)	184 C13H28
7.	Octane, 6-ethyl-2-methyl- (9CI)	156 C11H24

Sample file: >P3403 Spectrum #: 565
Search speed: 1 Tilting option: N No. of ion ranges searched: 63

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	41	17301325	6098	"BIGDB	54	50	0	0	88	40	14	28

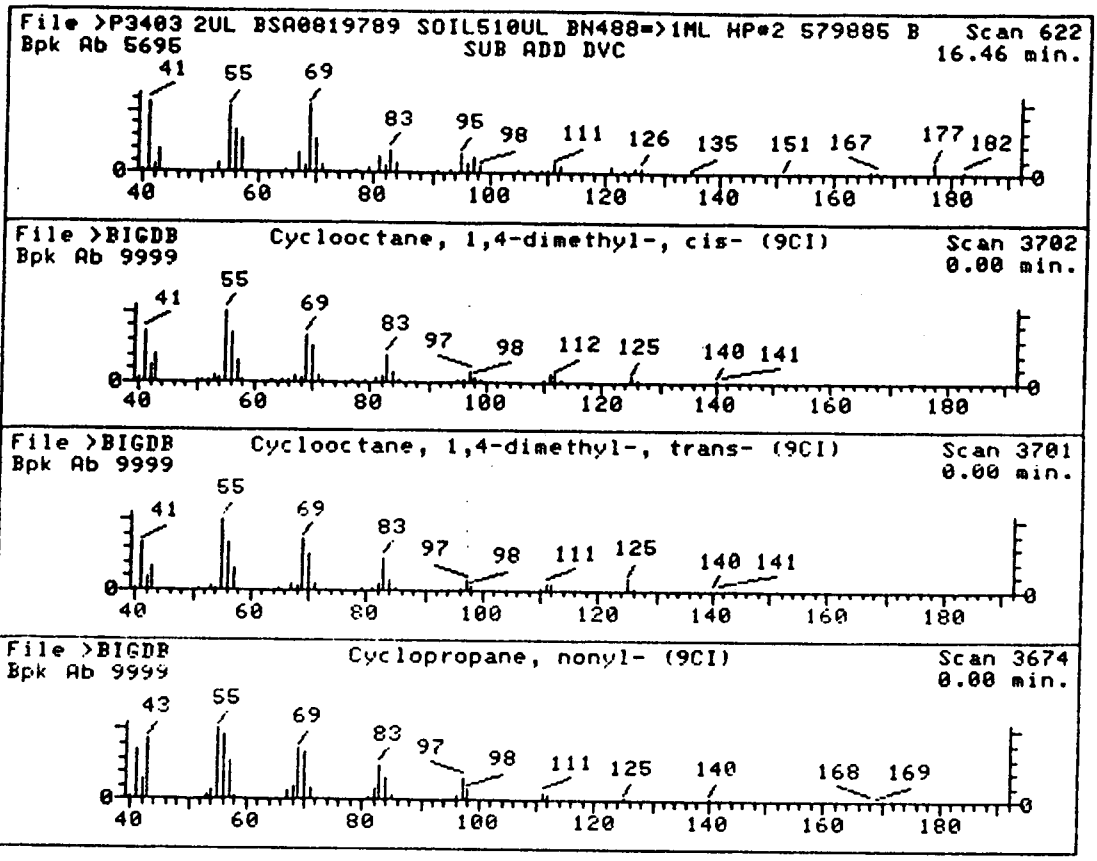


. Unknown #,2
Area = 163627.0 Tentative Concentration is 33.00

1.	Undecane, 4,6-dimethyl- (8CI)	184 C13H28
2.	Undecane, 3,5-dimethyl- (8CI)	184 C13H28
3.	Decane, 2,5,9-trimethyl- (9CI)	184 C13H28
4.	Decane, 2,6,8-trimethyl- (9CI)	184 C13H28
5.	Decane, 3,4-dimethyl- (8CI9CI)	170 C12H26
6.	Undecane, 3,6-dimethyl- (8CI)	184 C13H28
7.	3-Hexanone, 2,2-dimethyl- (8CI9CI)	128 C8H16O

Sample file: >P3403 Spectrum #: 612
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	83*	17312822	3957	"BIGDB	74	24	2	0	73	6	54	57
2.	76	17312811	8754	"BIGDB	64	34	2	0	86	6	45	23
3.	76	62108229	3927	"BIGDB	57	34	1	0	95	9	45	24
4.	70	62108263	3928	"BIGDB	52	40	2	0	100	6	42	17
5.	70	17312457	10850	"BIGDB	50	46	2	0	70	7	42	13

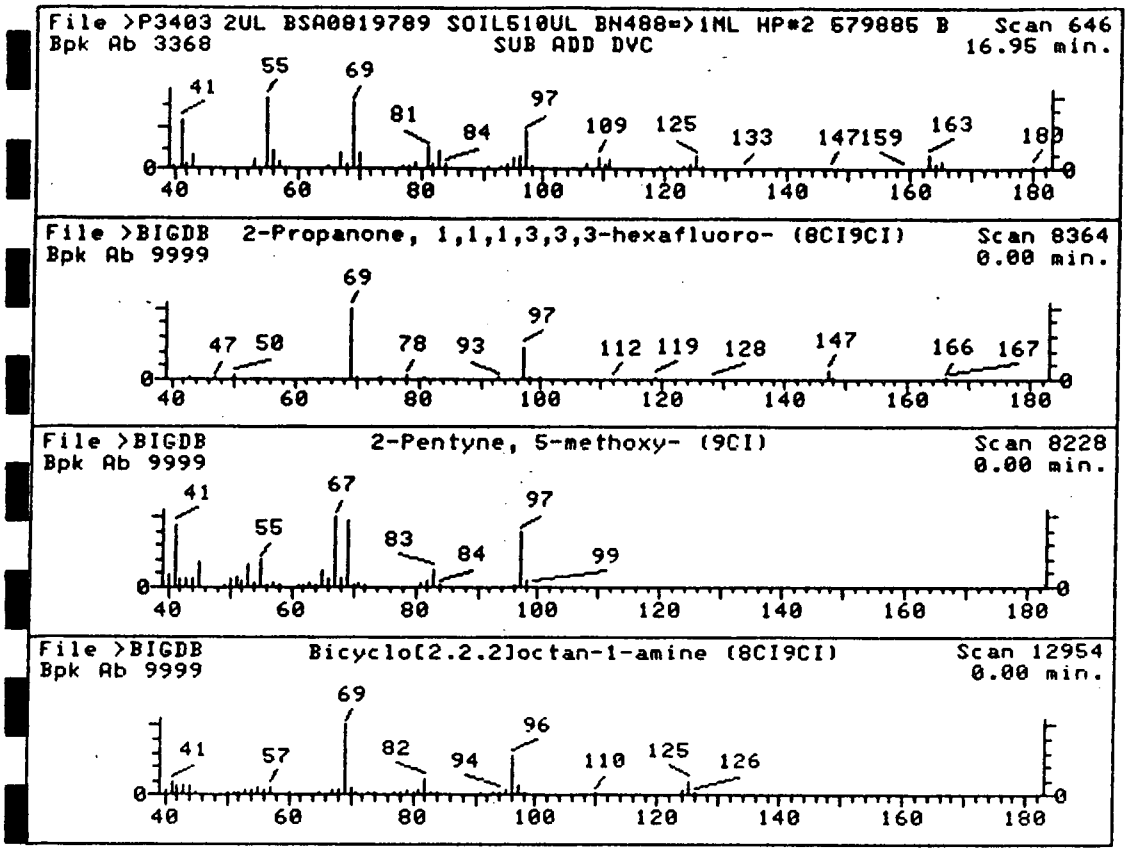


. Unknown #,3
Area = 168950.0 Tentative Concentration is 34.00

1.	Cyclooctane, 1,4-dimethyl-, cis- (9CI)	140 C10H20
2.	Cyclooctane, 1,4-dimethyl-, trans- (9CI)	140 C10H20
3.	Cyclopropane, nonyl- (9CI)	168 C12H24
4.	Cyclopentane, 2-ethyl-1,1-dimethyl- (9CI)	126 C9H18
5.	Cyclopentane, 1,2-dibutyl- (9CI)	182 C13H26
6.	3-Octene, 2,6-dimethyl- (8CI9CI)	140 C10H20
7.	Cyclopropane, 1-methyl-2-(3-methylpentyl)- (9CI)	140 C10H20

Sample file: >P3403 Spectrum #: 622
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	69*	13151990	3702	"BIGDB	64	46	1	0	76	35	26	63



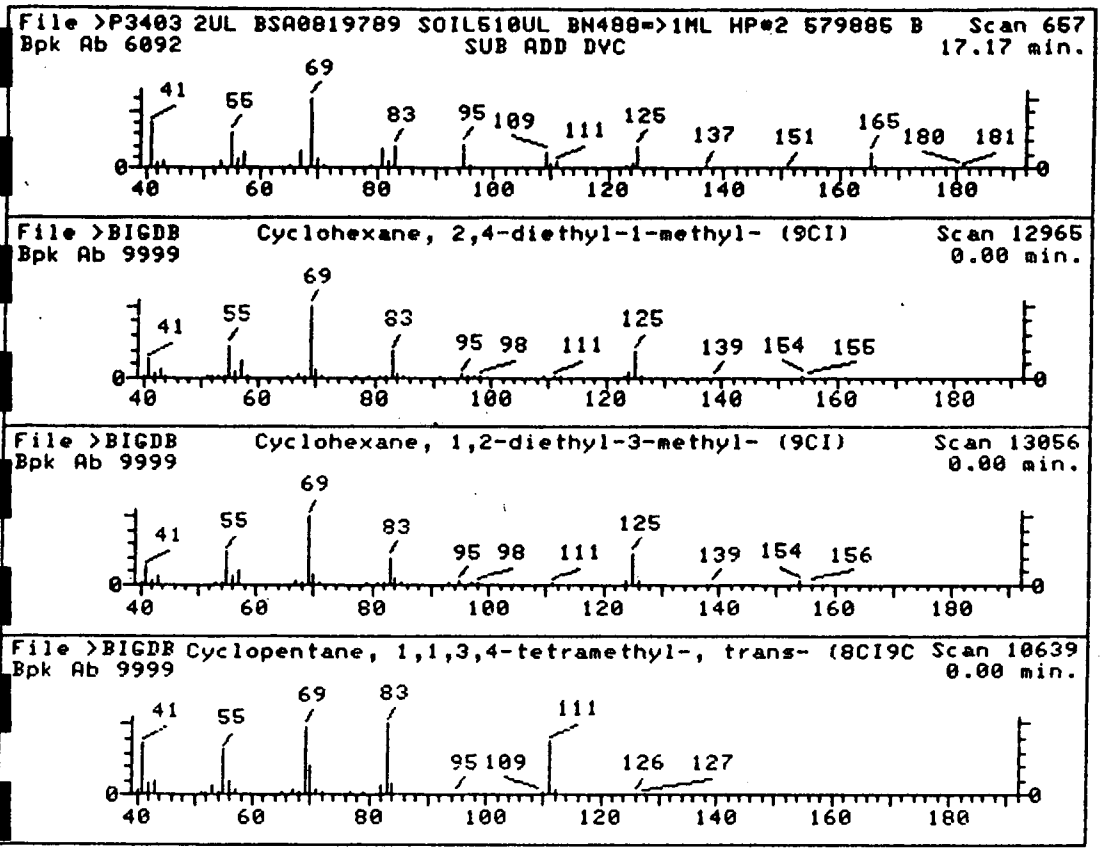
. Unknown #,4
Area = 88966.00 Tentative Concentration is 18.00

1.	2-Propanone, 1,1,1,3,3,3-hexafluoro- (8CI9CI)	166 C3F6O
2.	2-Pentyne, 5-methoxy- (9CI)	98 C6H10O
3.	Bicyclo[2.2.2]octan-1-amine (8CI9CI)	125 C8H15N
4.	1,4-Hexadiene, 3,3,5-trimethyl- (9CI)	124 C9H16
5.	1-Hexyn-3-ol, 3,5-dimethyl- (8CI9CI)	126 C8H14O
6.	1,5-Heptadiene, 3,3,5-trimethyl- (9CI)	138 C10H18
7.	1,5-Heptadiene, 2,3,6-trimethyl- (8CI9CI)	138 C10H18

Sample file: >P3403 Spectrum #: 646
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	684162	8364	"BIGDB	27	54	2	0	92	42	8	14

622

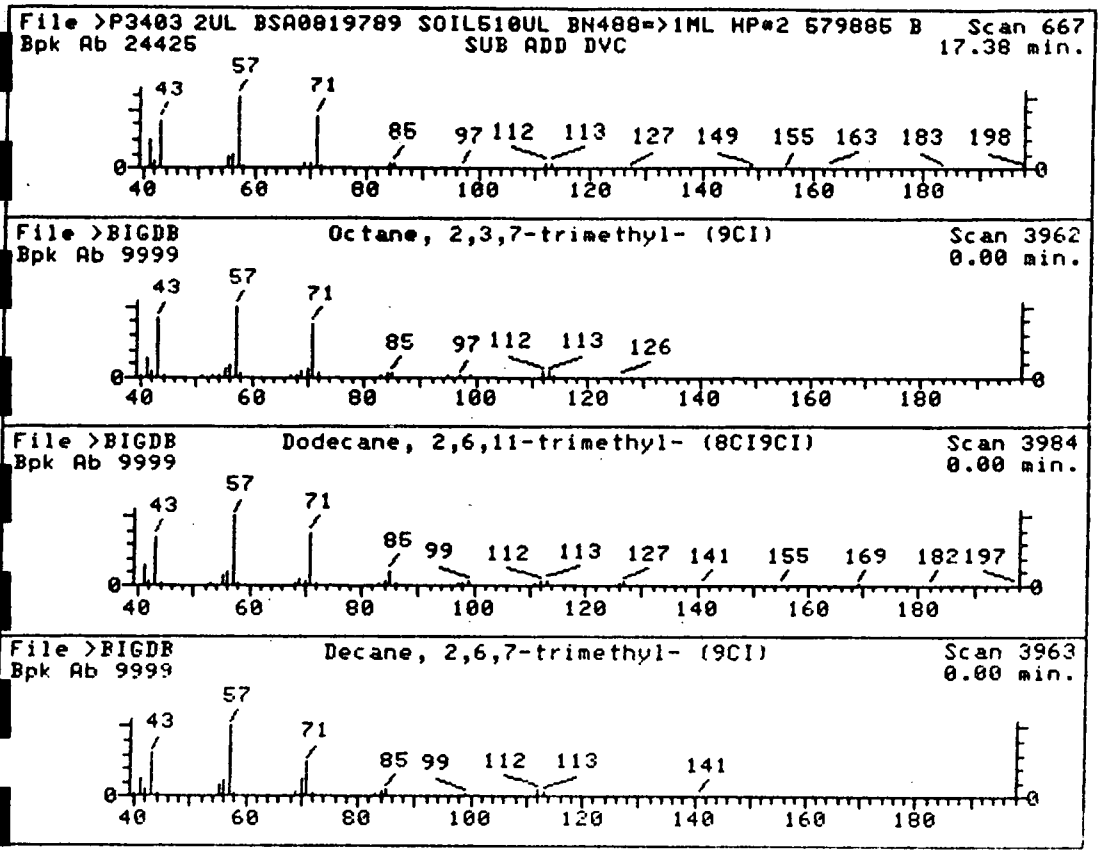


Unknown #,5
Area = 134157.0 Tentative Concentration is 27.00

1.	Cyclohexane, 2,4-diethyl-1-methyl- (9CI)	154 C11H22
2.	Cyclohexane, 1,2-diethyl-3-methyl- (9CI)	154 C11H22
3.	Cyclopentane, 1,1,3,4-tetramethyl-, trans- (8CI9CI)	126 C9H18
4.	1,5-Heptadiene, 2,3,6-trimethyl- (8CI9CI)	138 C10H18
5.	2,6-Octadiene, 2,7-dimethyl- (8CI9CI)	138 C10H18
6.	1,4-Hexadiene, 3,3,5-trimethyl- (9CI)	124 C9H16
7.	1,5-Heptadiene; 3,3,5-trimethyl- (9CI)	138 C10H18

Sample file: >P3403 Spectrum #: 657
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	29	61142709	12965	"BIGDB	51	43	2	0	85	39	10	15



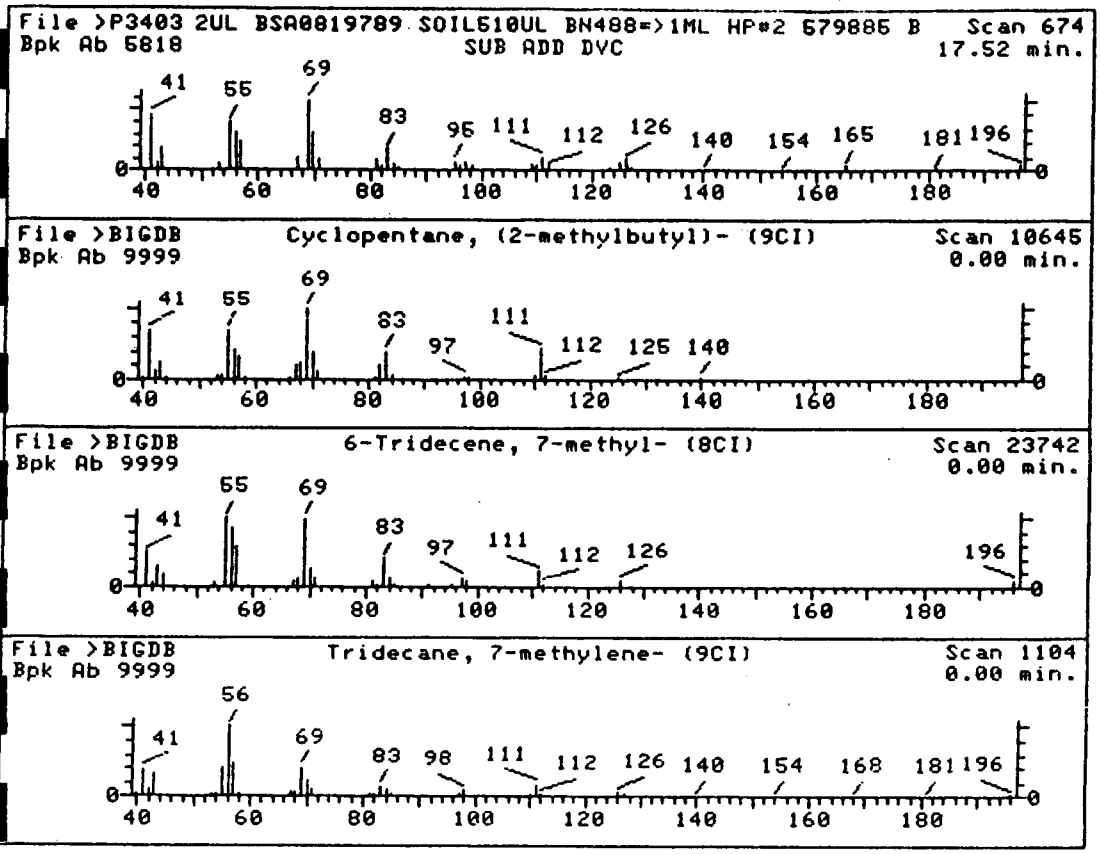
Unknown #,6
Area = 196006.0 Tentative Concentration is 40.00

1.	Octane, 2,3,7-trimethyl- (9CI)	156 C11H24
2.	Dodecane, 2,6,11-trimethyl- (8CI9CI)	212 C15H32
3.	Decane, 2,6,7-trimethyl- (9CI)	184 C13H28
4.	Octane, 3,6-dimethyl- (8CI9CI)	142 C10H22
5.	Octane, 2,3,6-trimethyl- (9CI)	156 C11H24
6.	Dodecane, 4,6-dimethyl- (9CI)	198 C14H30
7.	Heptane, 3-ethyl-5-methyl- (9CI)	142 C10H22

Sample file: >P3403 Spectrum #: 667
Search speed: 1 Tilting option: N No. of ice ranges searched: 40

	Prob.	CAS #	CON #	POOT	K	DP	#FLG	TILT	%	CON	C_I	P_IV
1.	84	62016346	3961	"BIGDB	72	21	0	0	69	10	55	60
2.	78	31295564	3984	"BIGDB	57	49	2	0	94	4	55	12
3.	78	62108252	3963	"BIGDB	51	47	2	0	94	4	55	13
4.	70	15869940	11047	"BIGDB	36	53	1	0	68	7	42	13
5.	70	62016335	3961	"BIGDB	50	42	2	0	84	10	42	16

524

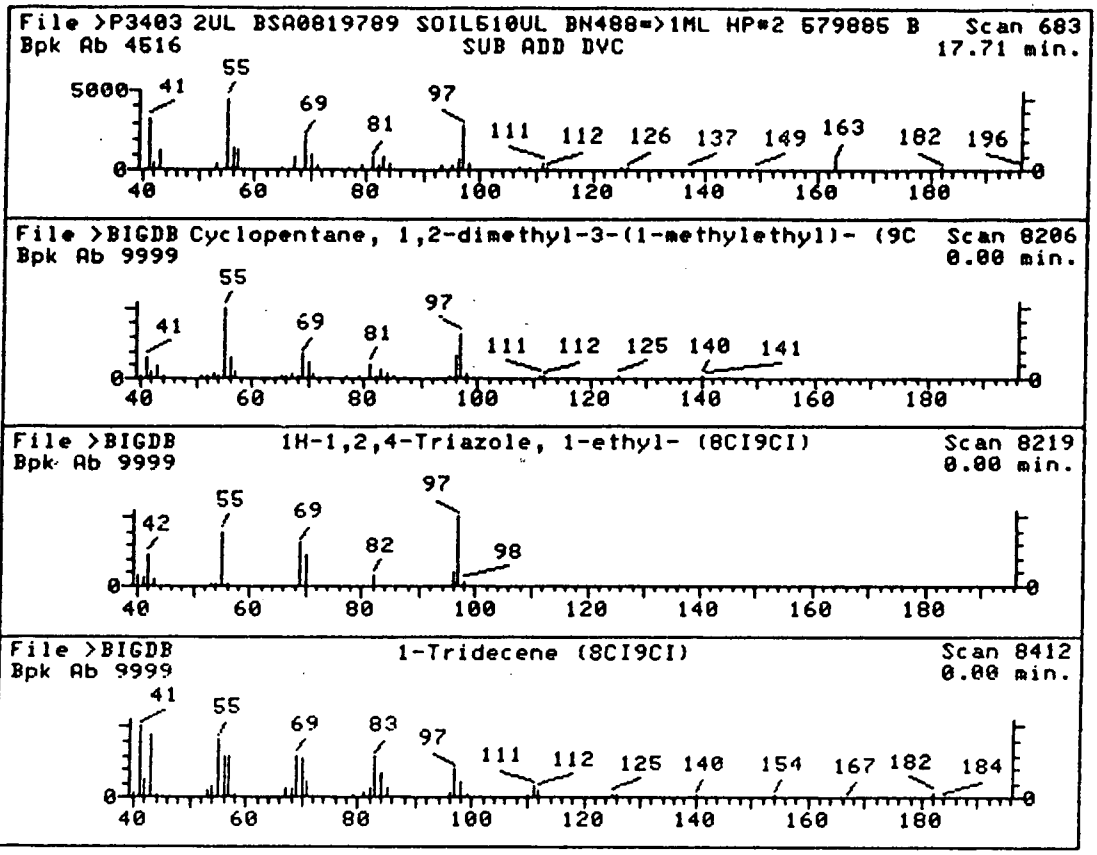


Unknown #,7
Area = 154352.0 Tentative Concentration is 31.00

1.	Cyclopentane, (2-methylbutyl)- (9CI)	140 C10H20
2.	6-Tridecene, 7-methyl- (8CI)	196 C14H28
3.	Tridecane, 7-methylene- (9CI)	196 C14H28
4.	2-Octene, 2,6-dimethyl- (8CI9CI)	140 C10H20
5.	Cyclooctane, 1,4-dimethyl-, cis- (9CI)	140 C10H20
6.	7-Tetradecene, (Z)- (9CI)	196 C14H28
7.	1-Octene, 3,7-dimethyl- (8CI9CI)	140 C10H20

Sample file: >P3403 Spectrum #: 674
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	56*	53366384	10645	"BIGDB	70	42	3	0	96	29	24	36

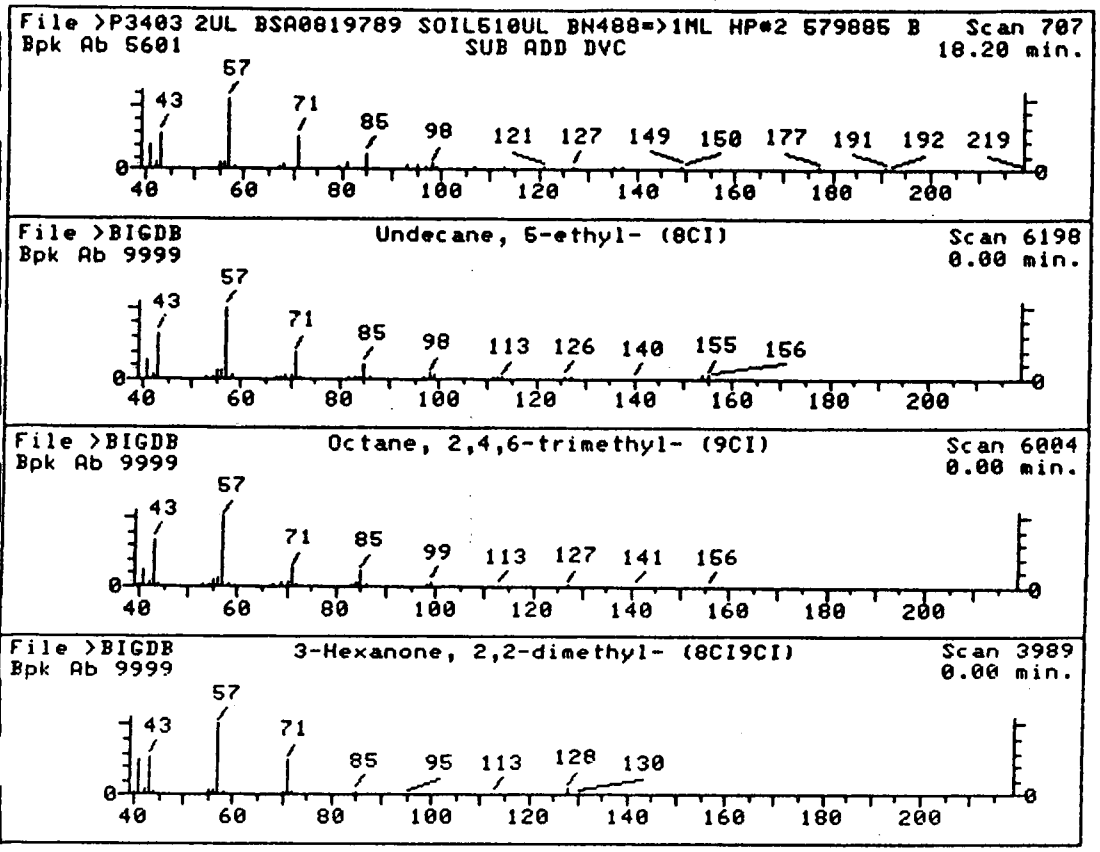


. Unknown #,8
Area = 96680.00 Tentative Concentration is 20.00

1.	Cyclopentane, 1,2-dimethyl-3-(1-methylethyl)- (9CI)	140	C10H20
2.	1H-1,2,4-Triazole, 1-ethyl- (8CI9CI)	97	C4H7N3
3.	1-Tridecene (8CI9CI)	182	C13H26
4.	Cyclohexane, 1-ethyl-2-methyl-, cis- (8CI9CI)	126	C9H18
5.	Cyclohexane, 1,1-dimethyl- (8CI9CI)	112	C8H16
6.	7-Oxabicyclo[4.1.0]heptane, 3-methyl- (9CI)	112	C7H12O
7.	6-Tridecene (8CI9CI)	182	C13H26

Sample file: >P3403 Spectrum #: 683
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	38	489203	8206	"BIGDB	60	37	2	0	85	32	16	21



Unknown #,9

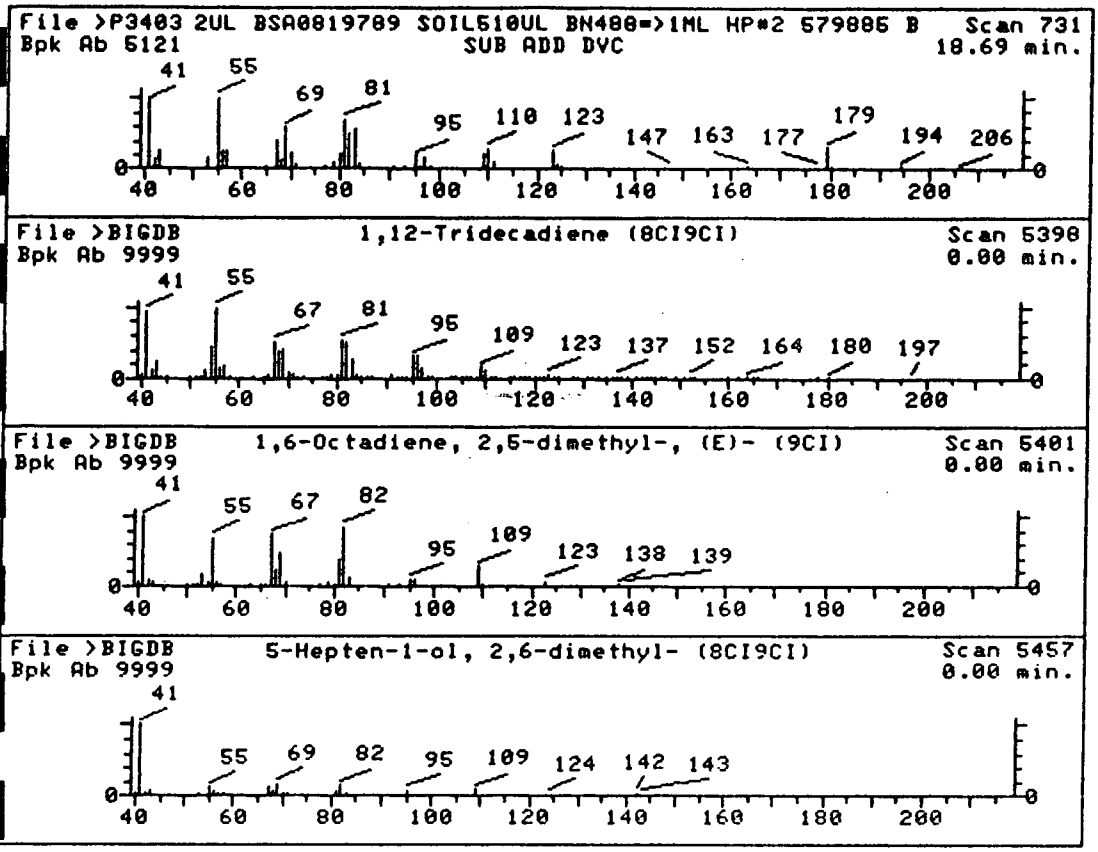
Area = 104084.0 Tentative Concentration is 21.00

1.	Undecane, 5-ethyl- (8CI)	184 C13H28
2.	Octane, 2,4,6-trimethyl- (9CI)	156 C11H24
3.	3-Hexanone, 2,2-dimethyl- (8CI9CI)	128 C8H16O
4.	Heptane, 2,3,5-trimethyl- (8CI9CI)	142 C10H22
5.	Undecane, 6-methyl- (8CI9CI)	170 C12H26
6.	Pentanoic acid, 3-methyl-2-oxo-, methyl ester (9CI)	144 C7H12O3
7.	Pentane, 2,2-dimethyl- (8CI9CI)	100 C7H16

Sample file: >P3403 Spectrum #: 707

Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	70	17453940	6198	"BIGDB	56	42	2	0	94	7	42	16

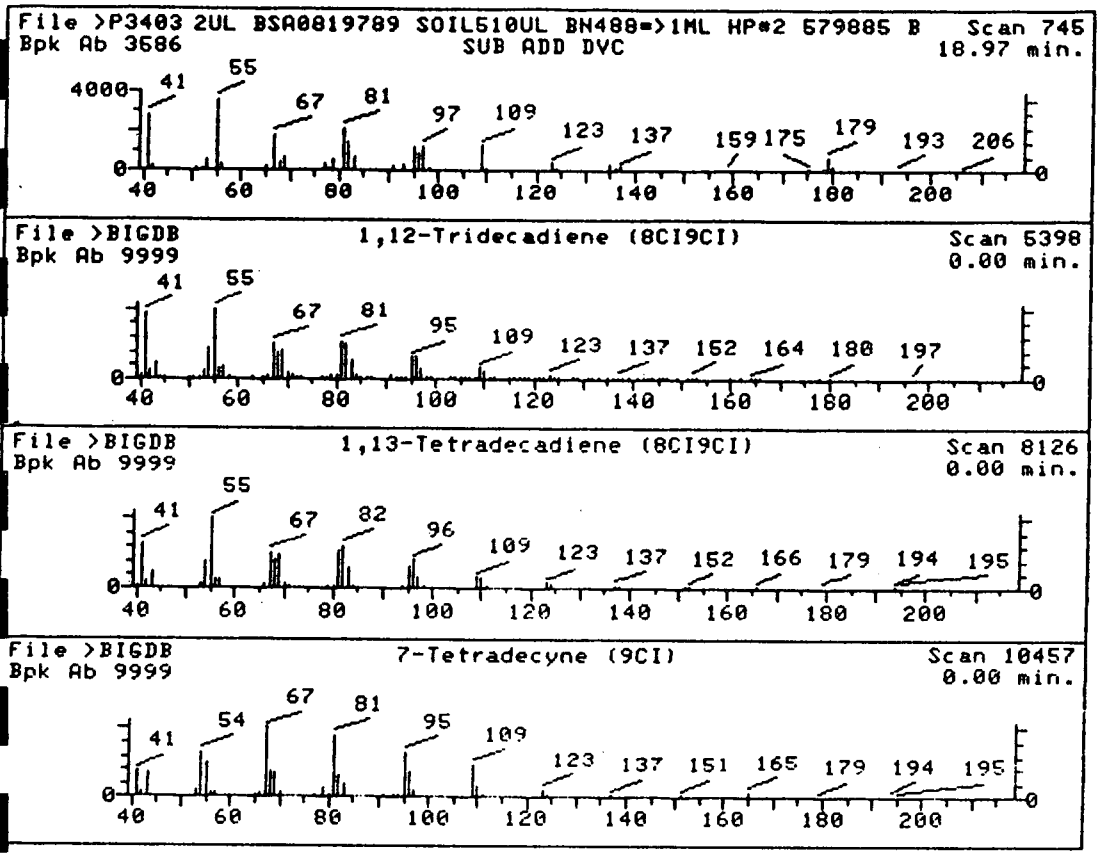


Unknown #,10
Area = 122602.0 Tentative Concentration is 25.00

1.	1,12-Tridecadiene (8CI9CI)	180	C13H24
2.	1,6-Octadiene, 2,5-dimethyl-, (E)- (9CI)	138	C10H18
3.	5-Hepten-1-ol, 2,6-dimethyl- (8CI9CI)	142	C9H18O
4.	Nonanenitrile (8CI9CI)	139	C9H17N
5.	Bicyclo[3.2.1]octane (8CI9CI)	110	C8H14
6.	1,6-Octadiene, 2,7-dimethyl- (9CI)	138	C10H18
7.	Cyclopentane, 1-methyl-2-(2-propenyl)-, trans- (9CI)	124	C9H16

Sample file: >P3403 Spectrum #: 731
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	21964487	5398	"BIGDB	23	98	3	0	80	50	7	12

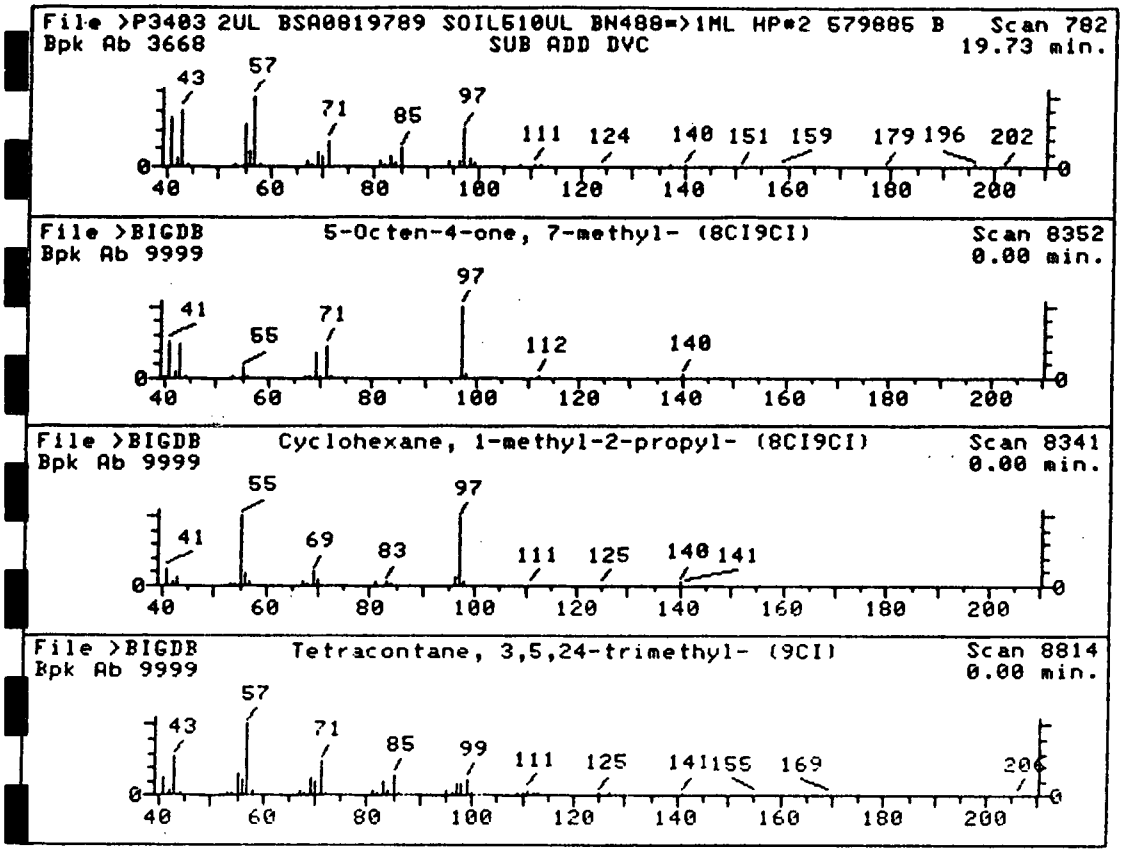


Unknown #,11
Area = 70616.00 Tentative Concentration is 14.00

1.	1,12-Tridecadiene (8CI9CI)	180 C13H24
2.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
3.	7-Tetradecyne (9CI)	194 C14H26
4.	Hexane, 1-(isopropylidenecyclopropyl)- (8CI)	166 C12H22
5.	1,3-Butadiene, 2,3-dimethyl- (8CI9CI)	82 C6H10
6.	2-Pentene, 2-methyl-5-nitro- (9CI)	129 C6H11NO2
7.	4,5-Nonadiene (8CI9CI)	124 C9H16

Sample file: >P3403 Spectrum #: 745
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	36*	21964487	5398	"BIGDB	41	80	3	0	85	29	14	13

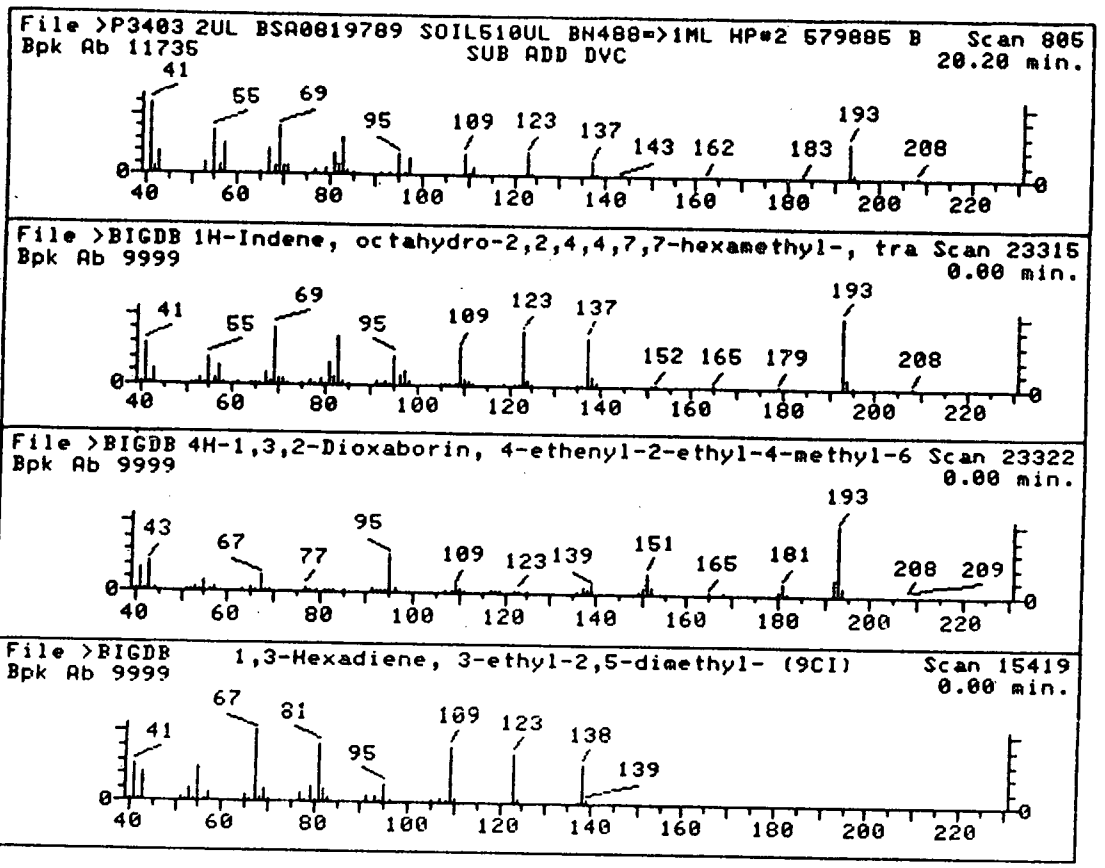


Unknown #,12
Area = 67408.00 Tentative Concentration is 14.00

1.	5-Octen-4-one, 7-methyl- (8CI9CI)	140 C9H16O
2.	Cyclohexane, 1-methyl-2-propyl- (8CI9CI)	140 C10H20
3.	Tetracontane, 3,5,24-trimethyl- (9CI)	604 C43H88
4.	Cyclohexane, 1-methyl-3-propyl- (8CI9CI)	140 C10H20
5.	Cyclohexane, 1-ethyl-1-methyl- (8CI9CI)	126 C9H18
6.	Diisoamylene (9CI)	140 C10H20
7.	5-Nonen-4-one (8CI9CI)	140 C9H16O

Sample file: >P3403 Spectrum #: 782
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	30*	32064781	8352	"BIGDB	29	54	0	0	55	46	10	21

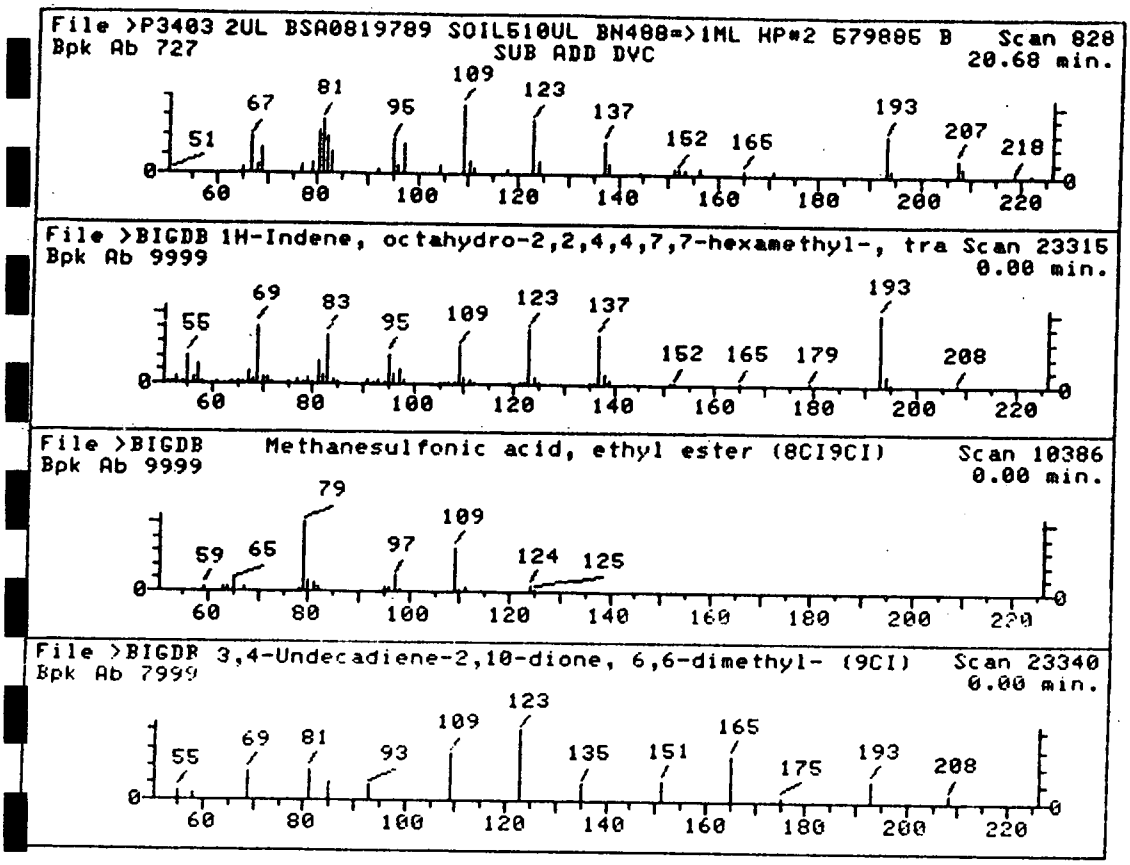


Unknown #,13
Area = 295630.0 Tentative Concentration is 60.00

1. 1H-Indene, octahydro-2,2,4,4,7,7-hexamethyl-, trans- (9CI) 208 C15H28
2. 4H-1,3,2-Dioxaborin, 4-ethenyl-2-ethyl-4-methyl-6-(2-methylpropyl)- (9CI) 208 C12H21BO2
3. 1,3-Hexadiene, 3-ethyl-2,5-dimethyl- (9CI) 138 C10H18

Sample file: >P3403 Spectrum #: 805
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	36*	54832836	23315	"BIGDB	60	82	3	0	50	45	12	27

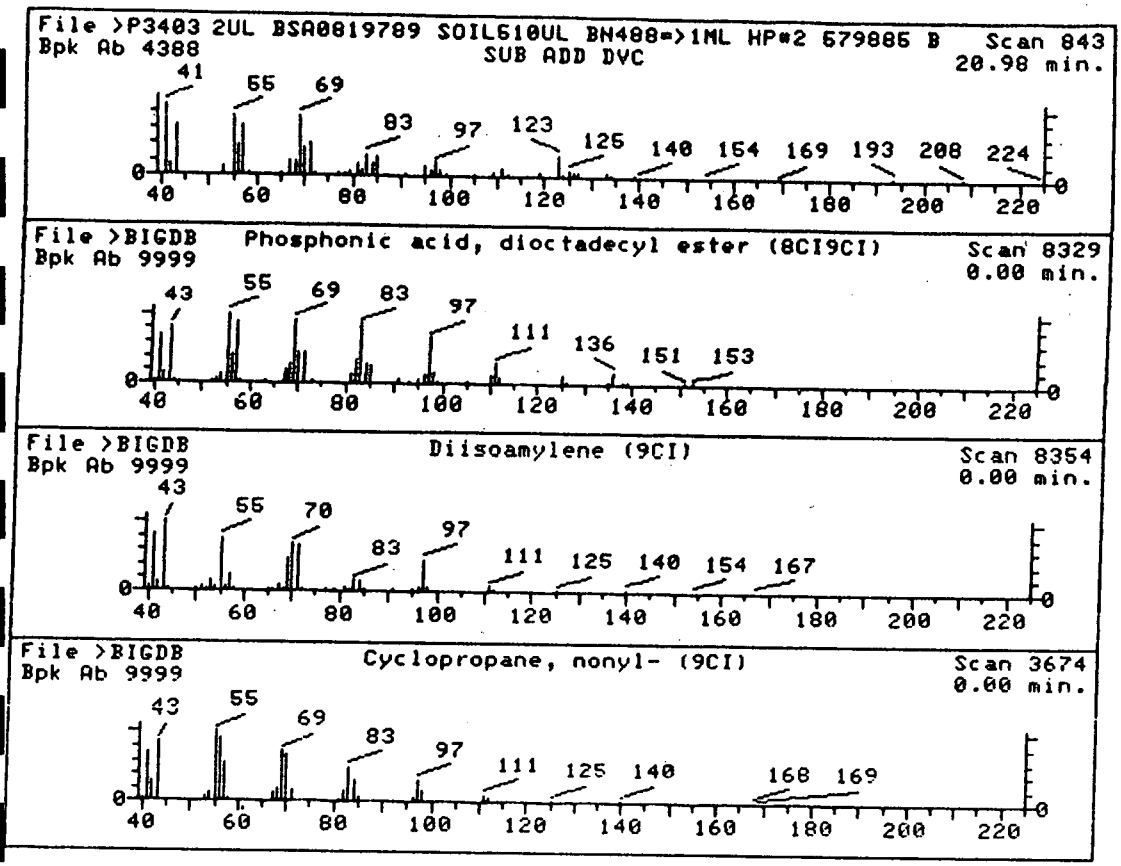


Unknown #,14
Area = 64181.00 Tentative Concentration is 14.00

1.	1H-Indene, octahydro-2,2,4,4,7,7-hexamethyl-, trans- (9CI)	208	C15H28
2.	Methanesulfonic acid, ethyl ester (8CI9CI)	124	C3H8O3S
3.	3,4-Undecadiene-2,10-dione, 6,6-dimethyl- (9CI)	208	C13H20O2
4.	Benzenamine, 3-ethoxy- (9CI)	137	C8H11NO
5.	Borinic acid, diethyl-, 3,3,5-trimethyl-1-cyclohexen -1-yl ester (9CI)	208	C13H25BO

Sample file: >P3403 Spectrum #: 828
Search speed: 1 Tilting option: N No. of ion ranges searched: 59

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	18*	54832836	23315	"BIGDB	40	84	1	0	46	57	4	21

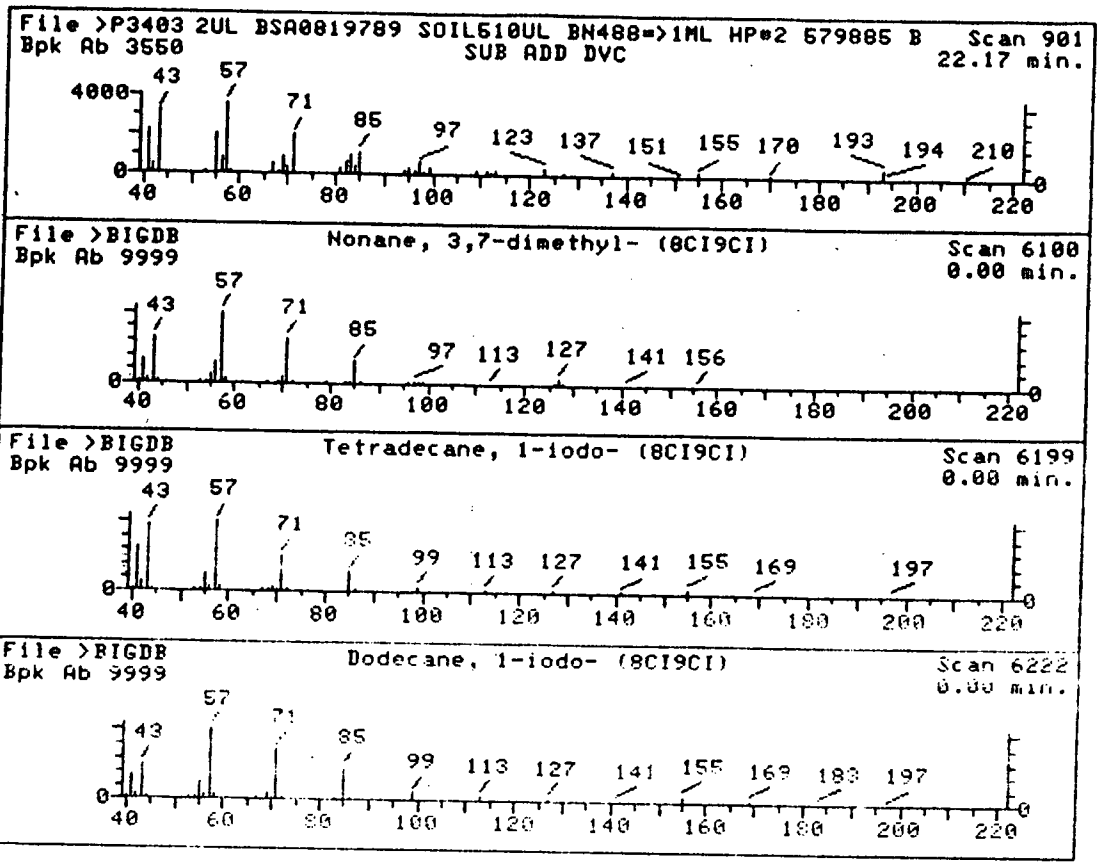


. Unknown #,15
Area = 119874.0 Tentative Concentration is 26.00

1.	Phosphonic acid, dioctadecyl ester (8CI9CI)	586 C36H7503P
2.	Diisoamylene (9CI)	140 C10H20
3.	Cyclopropane, nonyl- (9CI)	168 C12H24
4.	2-Undecene, 4,5-dimethyl-, [R*,S*-(Z)]- (9CI)	182 C13H26
5.	9-Eicosene, (E)- (9CI)	280 C20H40
6.	Decane, 1-(ethenyloxy)- (9CI)	184 C12H240
7.	1-Heptadecanol (8CI9CI)	256 C17H360

Sample file: >P3403 Spectrum #: 843
Search speed: 1 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	60	19047859	8329	"BIGDB	82	118	3	0	83	15	30	15

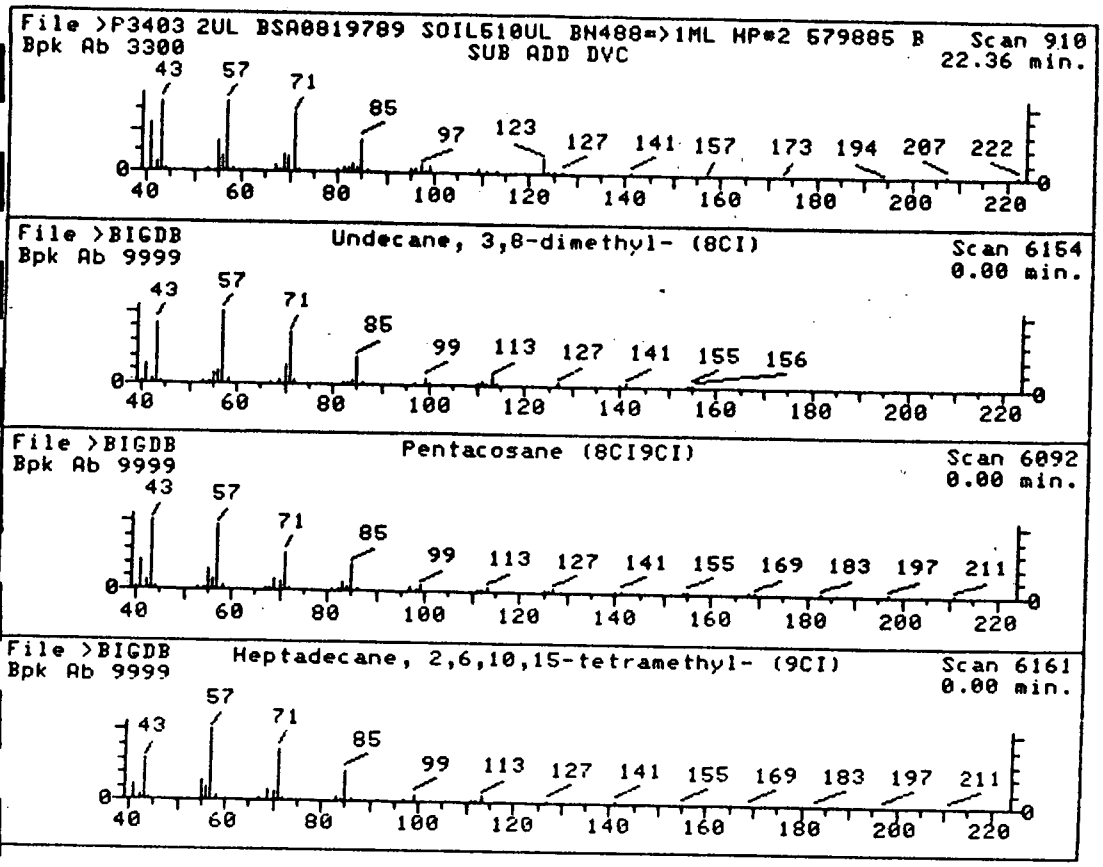


Unknown #,16
Area = 67679.00 Tentative Concentration is 15.00

1.	Nonane, 3,7-dimethyl- (8CI9CI)	156 C11H24
2.	Tetradecane, 1-iodo- (8CI9CI)	324 C14H29I
3.	Dodecane, 1-iodo- (8CI9CI)	296 C12H25I
4.	Eicosane, 10-methyl- (9CI)	296 C21H44
5.	Docosane (8CI9CI)	310 C22H46
6.	Hexatriacontane (8CI9CI)	506 C36H74
7.	Undecane, 2,9-dimethyl- (8CI)	184 C13H28

Sample file: >P3403 Spectrum #: 901
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	59*	17302328	6100	"BIGDB	56	30	1	0	75	37	21	55

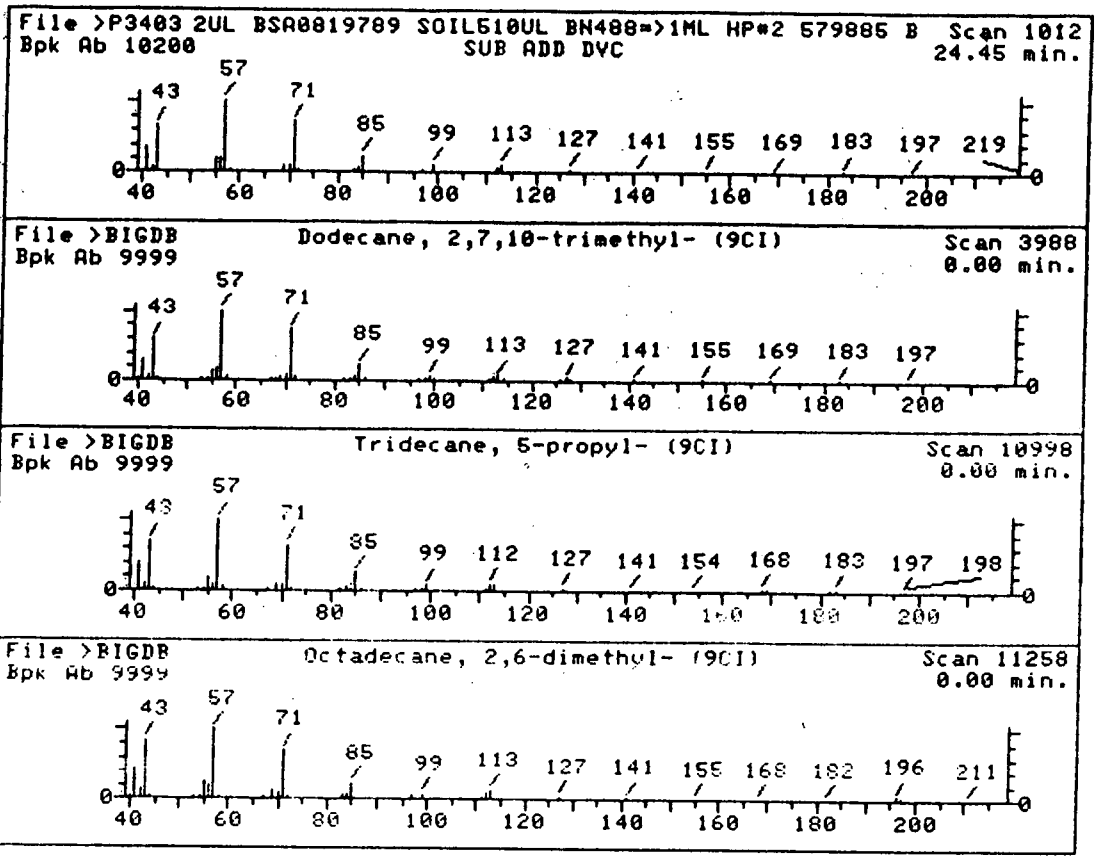


Unknown #,17
Area = 103079.0 Tentative Concentration is 22.00

1.	Undecane, 3,8-dimethyl- (8CI)	184 C13H28
2.	Pentacosane (8CI9CI)	352 C25H52
3.	Heptadecane, 2,6,10,15-tetramethyl- (9CI)	296 C21H44
4.	Nonane, 2-methyl-5-propyl- (8CI)	184 C13H28
5.	Tridecane (8CI9CI)	184 C13H28
6.	Hexadecane (8CI9CI)	226 C16H34
7.	Pentadecane (8CI9CI)	212 C15H32

Sample file: >P3403 Spectrum #: 910
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	63	17301303	6154	"BIGDB	81	27	2	0	87	16	30	30

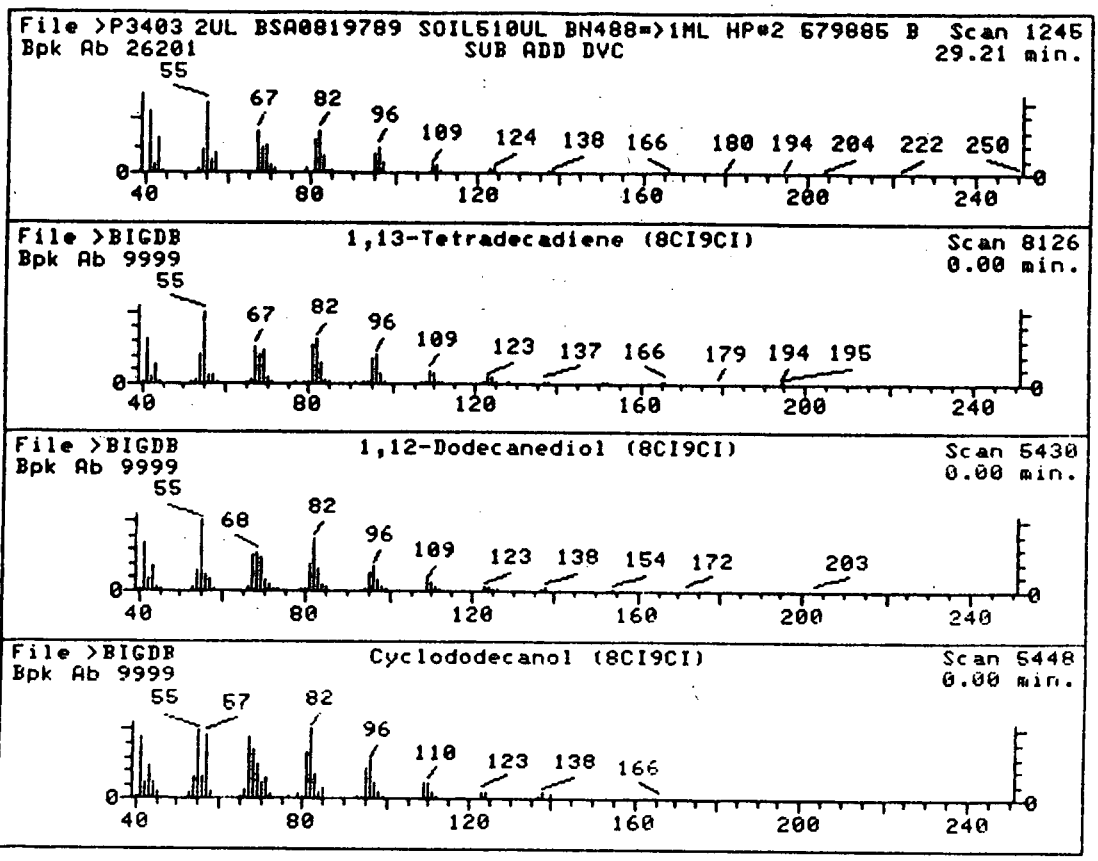


. Unknown #,18
Area = 105935.0 Tentative Concentration is 23.00

1.	Dodecane, 2,7,10-trimethyl- (9CI)	212 C15H32
2.	Tridecane, 5-propyl- (9CI)	226 C16H34
3.	Octadecane, 2,6-dimethyl- (9CI)	282 C20H42
4.	Nonane, 3,7-dimethyl- (8CI9CI)	156 C11H24
5.	Dodecane, 2,6,11-trimethyl- (8CI9CI)	212 C15H32
6.	Decane, 5-propyl- (8CI)	184 C13H28
7.	Octane, 2,3,7-trimethyl- (9CI)	156 C11H24

Sample file: >P3403 Spectrum #: 1012
Search speed: 1 Tilting option: N No. of ion ranges searched: 50

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	79	74645980	3988	"BIGDB	91	18	0	0	76	11	43	66
2.	70	55045119	10998	"BIGDB	72	41	2	0	90	8	42	17
3.	70	75163972	11258	"BIGDB	82	57	3	0	76	6	42	15

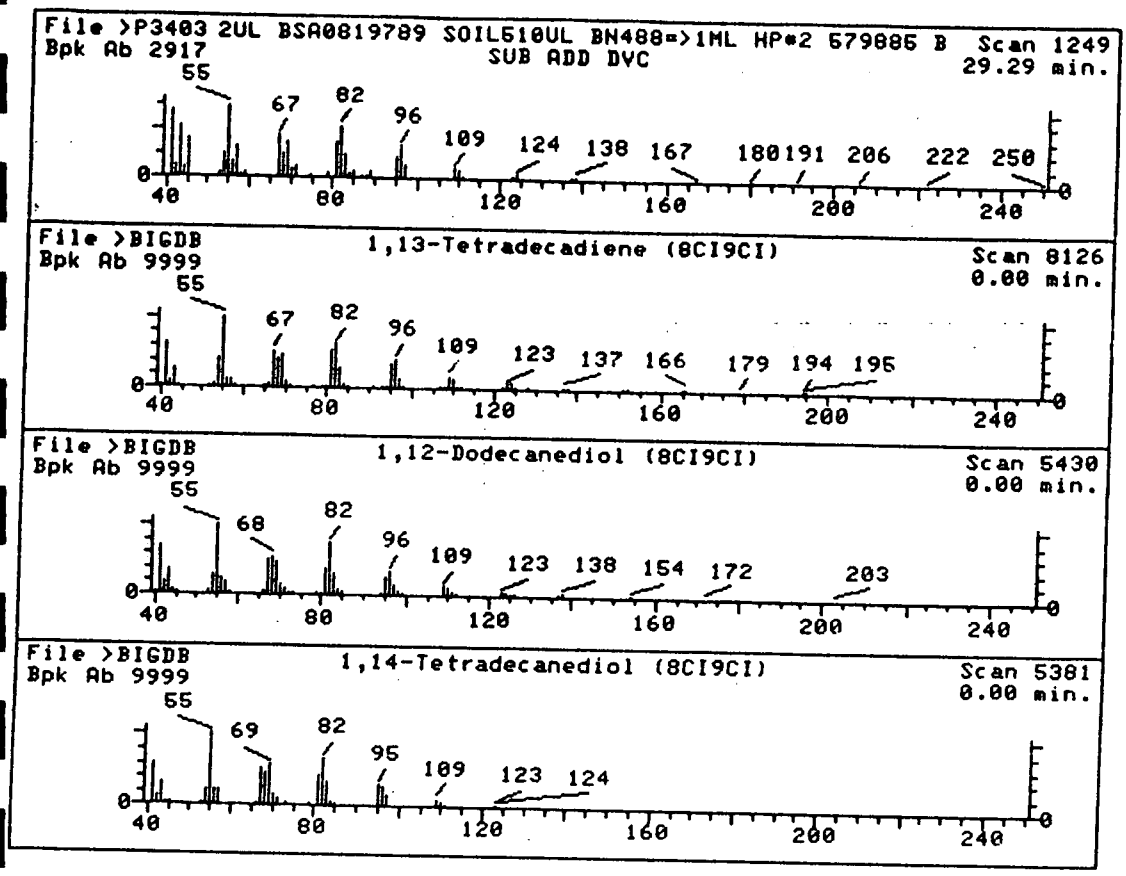


. Unknown #,19
Area = 899540.0 Tentative Concentration is 200.00

1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	1,12-Dodecanediol (8CI9CI)	202 C12H26O2
3.	Cyclododecanol (8CI9CI)	184 C12H24O
4.	Cyclododecene, (E)- (8CI9CI)	166 C12H22
5.	1,14-Tetradecanediol (8CI9CI)	230 C14H30O2
6.	1,11-Dodecadiene (8CI9CI)	166 C12H22
7.	1-Hexadecyne (8CI9CI)	222 C16H30

Sample file: >P3403 Spectrum #: 1245
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	89	21964498	8126	"BIGDB	108	20	1	0	74	1	66	66
2.	81	5675514	5430	"BIGDB	108	29	2	0	80	10	53	44
3.	79	1724396	5448	"BIGDB	103	40	2	0	53	10	48	37
4.	78	1486755	5488	"BIGDB	78	51	2	0	50	3	55	19
5.	75	19812647	5381	"BIGDB	109	34	1	0	76	18	35	67
6.	71	5876879	5431	"BIGDB	91	22	2	0	86	15	38	35
7.	71*	629743	8118	"BIGDB	73	73	3	0	75	13	38	38



Unknown #,20
Area = 209588.0 Tentative Concentration is 46.00

1. 1,13-Tetradecadiene (8CI9CI)
2. 1,12-Dodecanediol (8CI9CI)
3. 1,14-Tetradecanediol (8CI9CI)
4. 1-Hexadecyne (8CI9CI)
5. Cyclododecene, (E)- (8CI9CI)
6. 1,9-Nonanediol, dimethanesulfonate (8CI9CI)
7. 1,12-Tridecadiene (8CI9CI)

194 C14H26
202 C12H2602
230 C14H3002
222 C16H30
166 C12H22
316 C11H2406S2
180 C13H24

Sample file: >P3403 Spectrum #: 1249
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

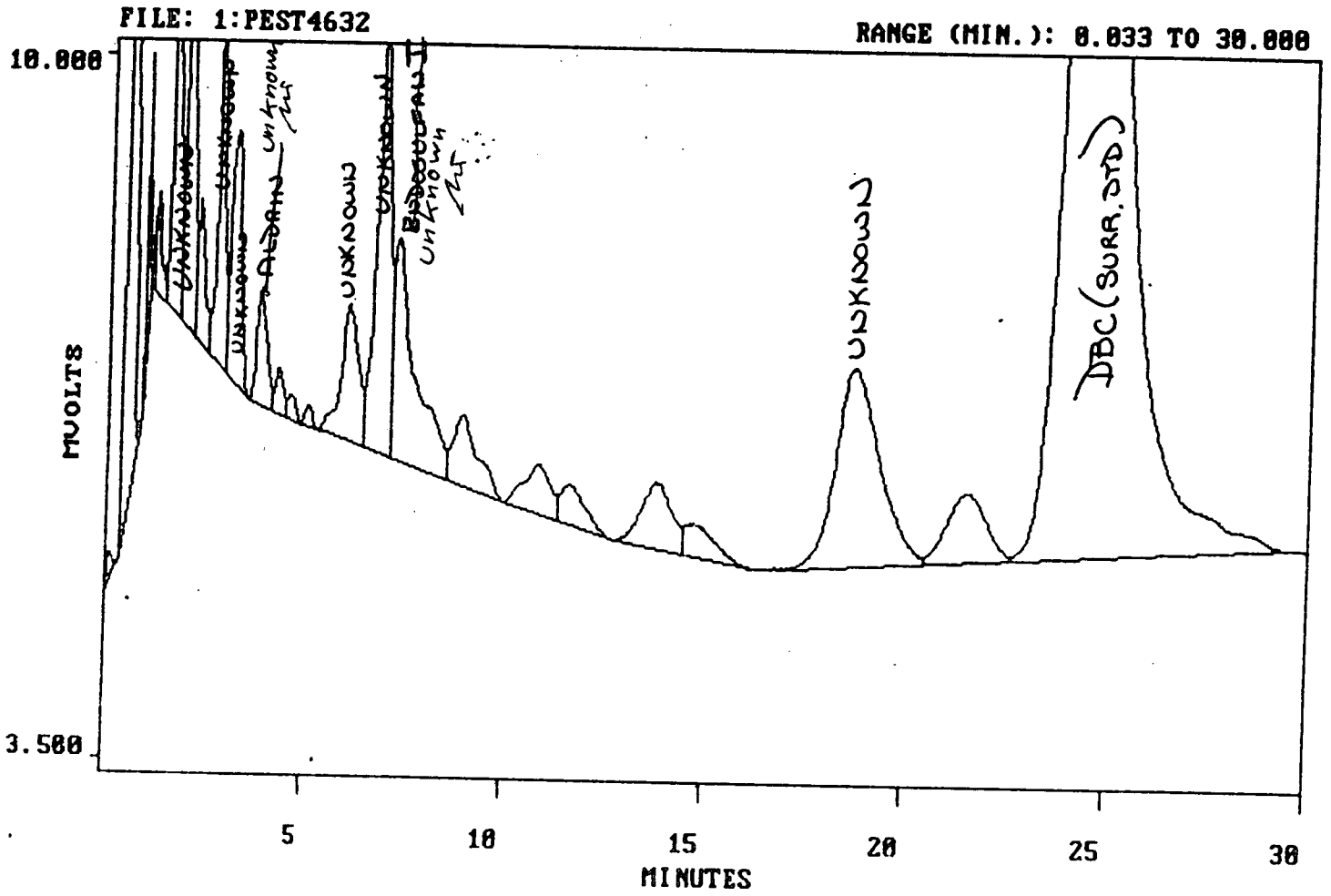
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	62	21964498	8126	"BIGDB	111	17	2	0	85	28	25	49

BSA0819789

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:10:16:21 Date:THU 10 SEP 87

Time:05:14:40 Date:THU 10 SEP 87
Method:PEST1



539

Channel # . . . . 4 Time:05:47:46 Date:THU 10 SEP 87
Run #22 of 50

Sample name . . . . . .
Data file DAT351:PEST4632
Method name PEST1

Author . . . . . .URM
Instrument 4
Column . . . . . .1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes . . . . . .SUPELCOPORT

Run time . . . . . .30.00 min. Delay time . . .0.00 min.
Acq. time . . . . . .05:14:40 Acq. date . . . .THU 10 SEP 87
Start PW . . . . . .20.00 sec. End PW . . . . . .150.00 sec.
Actual PW 140.0
Slope sens . . . . .0.70 uv/sec.

Area reject 500
peaks found . .27
Vol. Inj . . . . . .5.0 ul Sample amount . .1.000
Conv. factor . . .1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.575	LINDANE	0	
2.924	beta-BHC	0	
3.393	delta-BHC	0	
5.760	HEPTACHLOR EPOXI	0	
8.208	P,P'-DDE	0	
12.395	P,P'-DDD	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
22.759	MIREX (STD.)	0	S
27.978	DBC/METHOX/END.K	0	

Romanell 9/17/87

==========

AREA PERCENT REPORT

==========

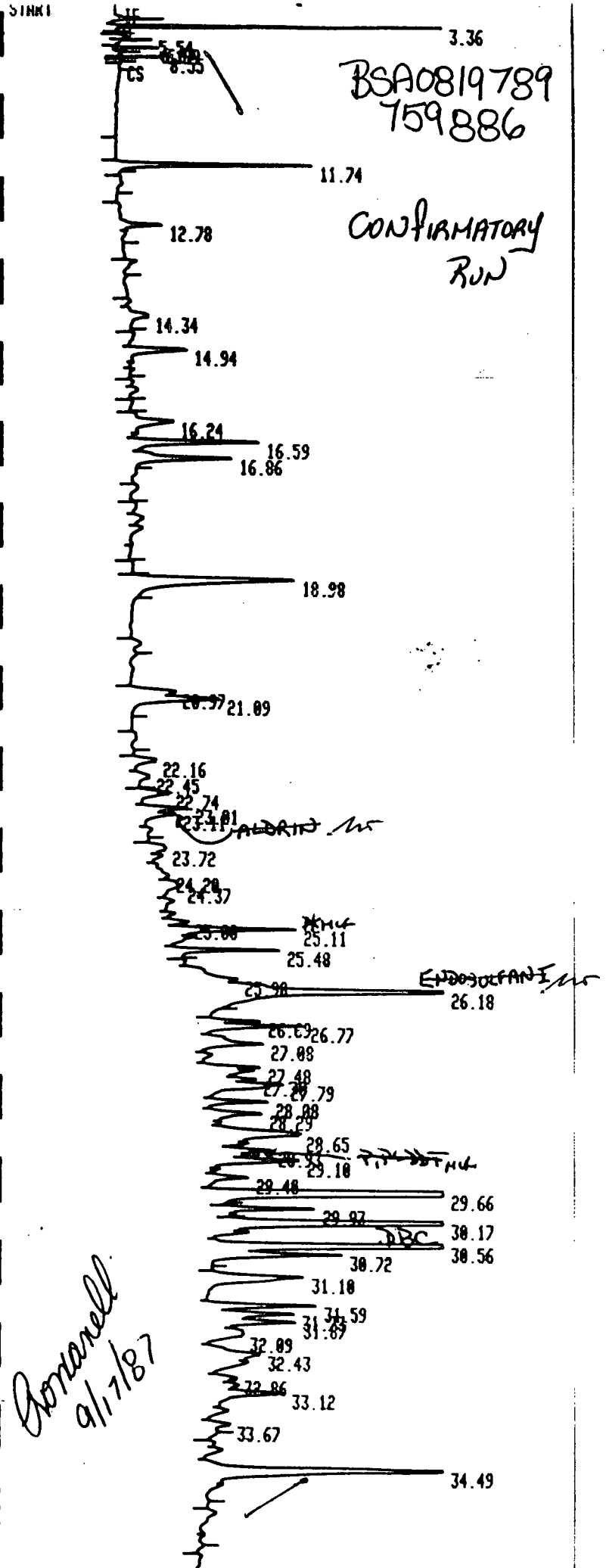
Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.131			0.062	2940	286	BB

	2	0.502		60.642	2874868	662206	BB
	3	0.944		0.315	14948	3069	BB
	4	1.105		0.070	3299	708	BV
	5	1.204		0.171	8128	991	VV
	6	1.548		0.937	44411200/75	3313	VV
2.05-2.17	7	1.925	~~alpha-BHC~~ MCR	1.194	56581200/95	3809	VV
	8	2.264		0.339	16091	1400	VV
	9	2.741		0.909	43077200/73	3619	VV
2.09-3.27	10	3.176	HEPTACHLOR MCR	0.969	45934200/77	2484	VB
3.71-3.93	11	3.803	~~ALDRIN~~ MC	0.425	20140297/23	1147	BV
	12	4.282		0.131	6206	462	VV
	13	4.589		0.064	3038	235	VB
	14	5.007		0.055	2618	207	BB
	15	5.968		0.843	39955200/67	1325	BV
	16	6.787		2.081	98664200/166	4145	VV
7.81-7.23	17	7.199	ENDOSULFAN I	1.731	82041264.6/105.5	2143	VV
	18	8.865	~~DIELDRIN~~ MCR	0.597	28297	676	VB
	19	10.800	~~ENDRIN~~ MCR	0.473	22443	480	BV
	20	11.575		0.343	16256	392	VB
	21	13.734		0.692	32784	630	BV
14.14-15.02	22	14.613	~~4,4'-DDT~~ * MC	0.336	15941	303	VB
	23	18.652		3.092	146562200/247	1893	BV
	24	21.479		0.951	45096	664	VV
	25	24.479	DBC (SURR. STD)	22.579	1070432200/1202	10785	VB
	TOTALS			100.000	4740750		

UNKNOWN 86U

588 ug/Kg DBC SPIKED INTO SAMPLE

205%



RUN # 162 SEP/14/87 18:15:03
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 4

HP5890
SPB608

AREA%

RT	AREA	TYPE	AR/HT	AREA%
3.36	1613900	BB	0.111	12.372
5.54	21068	BB	0.040	0.162
6.87	31176	BV	0.047	0.239
6.99	33719	VP	0.044	0.259
8.55	37338	BB	0.047	0.286
11.74	165790	PB	0.045	1.271
12.78	53245	PV	0.068	0.408
14.34	47086	PB	0.122	0.361
14.94	86276	PV	0.079	0.661
16.24	88205	BV	0.110	0.676
16.59	158320	VV	0.067	1.214
16.86	147460	VB	0.081	1.130
18.98	347330	BB	0.115	2.663
20.97	80261	BV	0.092	0.615
21.09	179580	VB	0.108	1.377
22.16	39550	PP	0.094	0.303
22.45	25719	PB	0.107	0.197
22.74	57201	BV	0.101	0.439
23.01	57522	VV	0.068	0.441
23.11	56862	VP	0.092	0.436
23.72	38753	PV	0.124	0.297
24.20	41542	PV	0.156	0.319
24.37	80515	VV	0.178	0.617
25.00	32511	VV	0.075	0.249
25.11	ALDRIN 175400	VV	0.073	1.345
25.48	114330	PB	0.058	0.876
25.98	107430	PV	0.133	0.824
26.18	ENDO I 816500	VB	0.107	6.259
26.69	46154	BV	0.048	0.354
26.77	131120	VV	0.073	1.005
27.08	121510	VP	0.108	0.932
27.48	66177	VV	0.061	0.507
27.70	78541	VV	0.077	0.602
27.79	199270	VV	0.133	1.528
28.08	83052	VV	0.069	0.637
28.29	111250	VV	0.104	0.853
28.65	301260	VV	0.166	2.309
28.93	P,P'-DDT 104040	VV	0.085	0.798
29.10	167650	VV	0.096	1.285
29.40	67245	VP	0.089	0.516
29.66	1634400	PB	0.077	12.529
29.93	88931	BV	0.053	0.682
30.17	820070	BV	0.075	6.287
30.56	DBC 1488100	PV	0.057	11.407
30.72	208350	VB	0.086	1.597
31.10	228440	BP	0.130	1.751
31.59	162900	PV	0.079	1.249
31.73	148320	VV	0.090	1.137
31.87	167560	VV	0.101	1.285
32.09	134870	VV	0.198	1.034
32.43	164630	VV	0.161	1.262
32.86	61538	VV	0.108	0.472
33.12	183640	VV	0.128	1.408
33.67	30363	PB	0.085	0.233
34.49	600230	PV	0.117	4.601
36.45	50471	PB	0.145	0.387
36.99	57834	PV	0.174	0.443
37.27	95033	VV	0.147	0.729
37.48	156980	VH	0.168	1.203
38.08	75911	PV	0.263	0.582
38.40	123640	VV	0.134	0.948
38.63	150910 I	VH	0.115	1.157

TOTAL AREA= 1.3045E+07

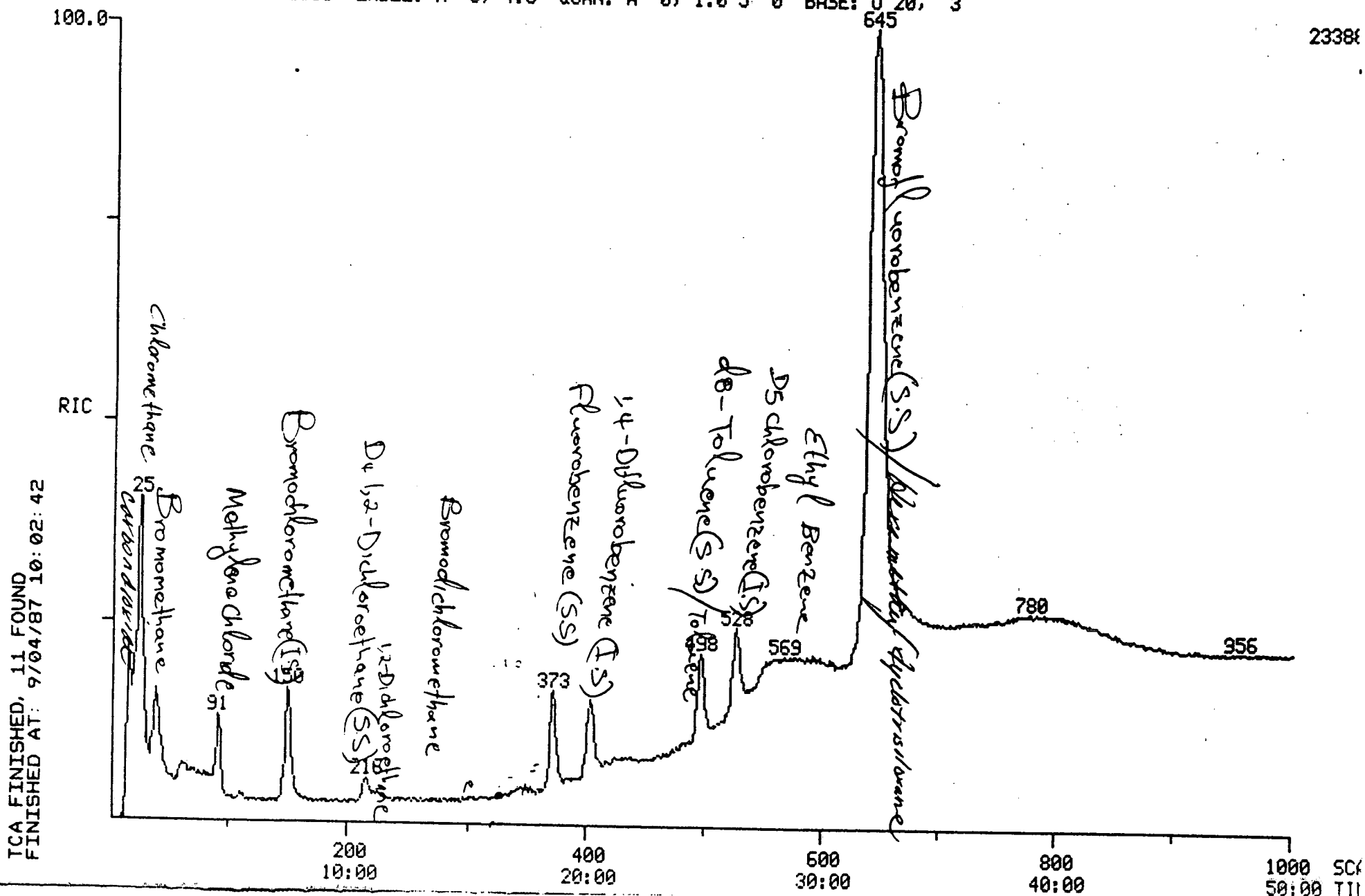
54

III. 2. Reporting Package for NJDEP # Field Blank

RIC
08/27/87 1:48:00
SAMPLE: 3MLS # FIELD BLANK
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU7420 #1
CALI: PU7420 #2

SCANS 1 TO 1000



QUANTITATION REPORT FILE: PU7420

DATA: PU7420.TI
8/27/87 1:48:00 TRIP
SAMPLE: 3MLS # ~~FEED~~ BLANK 759904
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

No	M/I	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	151	7:33	1	1.000	A BV	94827.	30.000 UG/L	1.98
2	65	215	10:45	1	1.424	A BB	138801.	32.094 UG/L	2.12
3	50	25	1:15	1	0.166	A BB	3362250.	268.907 UG/L	17.75
4	94	39	1:57	1	0.258	A BB	8030.	7.802 UG/L	0.51
5	NOT FOUND								
6	64	62	3:06	1	0.411	A BB	3548.	0.814 ~~UG/L~~	0.05
7	84	91	4:33	1	0.603	A BB	56544.	9.476 UG/L	0.63
~~8~~	~~43~~	~~90~~	~~4:30~~	~~1~~	~~0.596~~	~~A*BB~~	~~31560.~~	~~3.442 UG/L~~	~~0.23~~
~~9~~	~~76~~	~~82~~	~~4:06~~	~~1~~	~~0.543~~	~~A*BB~~	~~2099.~~	~~2.088 UG/L~~	~~0.14~~
10	96	143	7:09	1	0.947	A BB	3598.	0.567 UG/L	0.04
11	63	172	8:36	1	1.139	A*VB	2596.	0.256 UG/L	0.02
12	96	187	9:21	1	1.238	A VB	2638.	0.425 UG/L	0.03
13	83	198	9:54	1	1.311	A*BB	5982.	0.578 UG/L	0.04
14	62	218	10:54	1	1.444	A BB	8915.	~~0.805 UG/L~~	0.05
15	101	130	6:30	1	0.861	A BB	2375.	0.216 UG/L	0.01
~~16~~	~~85~~	~~46~~	~~2:18~~	~~1~~	~~0.305~~	~~A BB~~	~~475.~~	~~3.383 UG/L~~	~~0.22~~
~~17~~	~~56~~	~~148~~	~~7:24~~	~~1~~	~~0.980~~	~~A*BB~~	~~2550.~~	~~126.540 UG/L~~	~~8.35~~
~~18~~	~~53~~	~~145~~	~~7:15~~	~~1~~	~~0.960~~	~~A*BB~~	~~2698.~~	~~161.630 UG/L~~	~~10.67~~
19	114	405	20:15	19	1.000	A BB	615871.	30.000 UG/L	1.98

MCS IDENT

596

20	43	160	8:00	19	0.395	A VB	67312.	419.381	UG/L	27.68
21	97	227	11:21	19	0.560	A BB	463.	0.119	UG/L	0.01
22	117	240	12:00	19	0.593	A BB	423.	0.212	UG/L	0.01
23	43	265	13:15	19	0.654	A BB	13384.	182.296	UG/L	12.03
24	83	271	13:33	19	0.669	A*BB	4299.	0.750	UG/L 1.2	0.05
25	63	297	14:51	19	0.733	A*BV	6635.	0.666	UG/L 1.1	0.04
26	75	325	16:15	19	0.802	A BB	598.	0.113	UG/L	0.01
27	130	327	16:21	19	0.807	A BB	6418.	0.577	UG/L	0.04
28	129	345	17:15	19	0.852	A*BV	5197.	0.817	UG/L 1.4	0.05
29	97	326	16:18	19	0.805	A*BV	8463.	1.119	UG/L 1.9	0.07
30	NOT FOUND									
31	75	339	16:57	19	0.837	A*BB	6993.	1.936	UG/L 3.2	0.13
32	63	344	17:12	19	0.849	A VB	3173.	0.229	UG/L	0.02
33	NOT FOUND									
34	117	528	26:24	34	1.000	A BB	492405.	30.000	UG/L	1.98
35	43	305	15:15	34	0.578	A*VB	46384.	116.862	UG/L	7.71
36	43	326	16:18	34	0.617	A*BB	30800.	39.156	UG/L	2.58
37	164	458	22:54	34	0.867	A BB	468.	0.054	UG/L	0.00
38	NOT FOUND									
39	92	502	25:06	34	0.951	A VB	23014.	1.529	UG/L 2.5	0.10
40	NOT FOUND									
41	106	608	30:24	34	1.152	A BB	8260.	0.754	UG/L 1.2	0.05
42	NOT FOUND									
43	NOT FOUND									
44	NOT FOUND									
45	NOT FOUND									
46	NOT FOUND									
47	NOT FOUND									
48	96	372	18:36	34	0.705	A BB	674030.	30.569	UG/L	2.02
49	95	642	32:06	34	1.216	A BB	542256.	33.284	UG/L	2.20

MS IDENT.

MS NO ID, 1 IS

342

1914

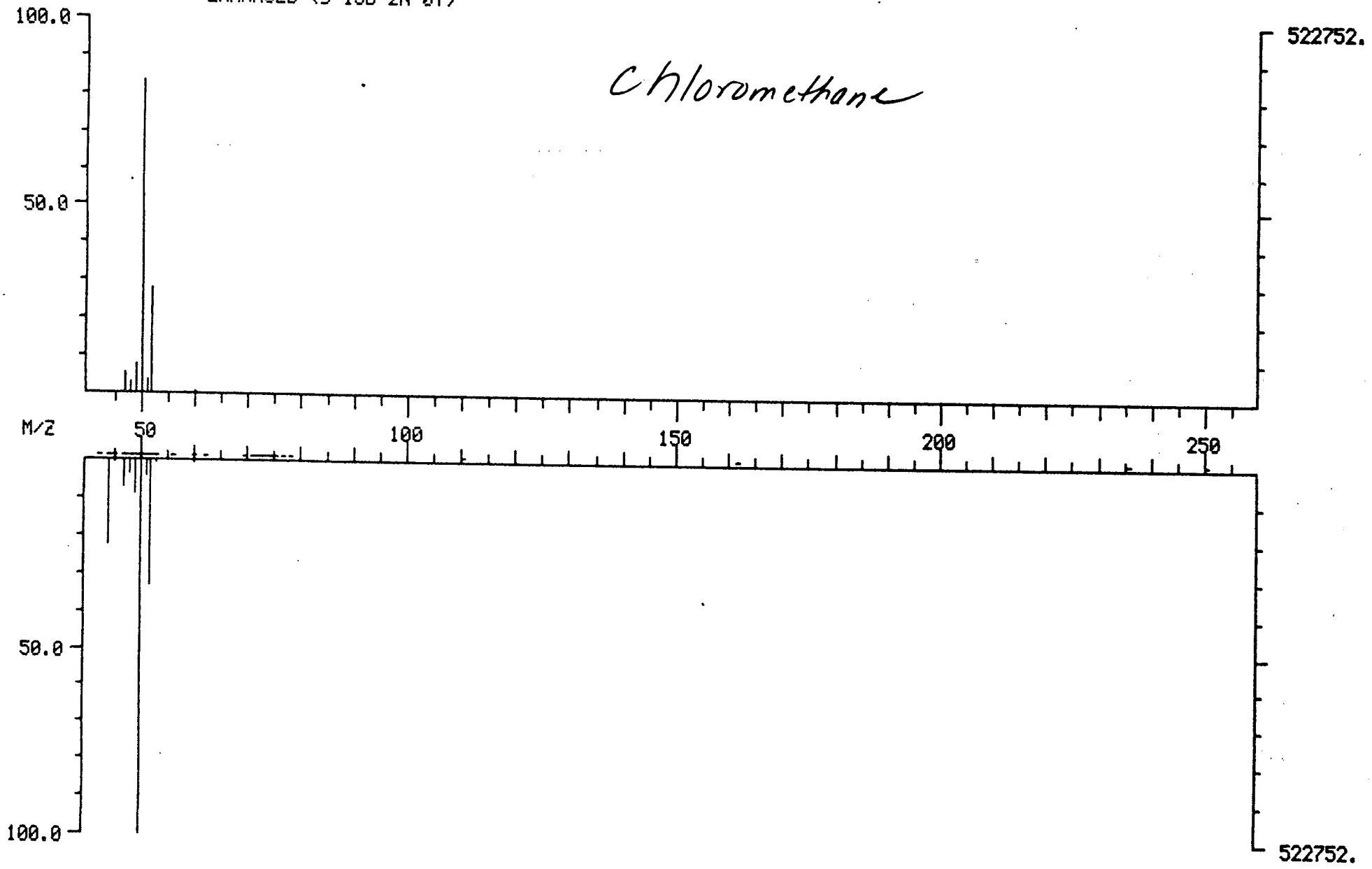
For Targeted Compounds

	scan #	Ref. pk.	Area	Amt (ug/l)
1.	15	1	205760	46 J, B
2.	645	34	2169800	680 J, B

DUAL MASS SPECTRUM
08/27/87 1:48:00 + 1:15
SAMPLE: 3MLS # FIELD BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7420 #25
CALI: PU7420 #2

BASE M/Z: 50/ 50
RIC: 684031./ 942079.

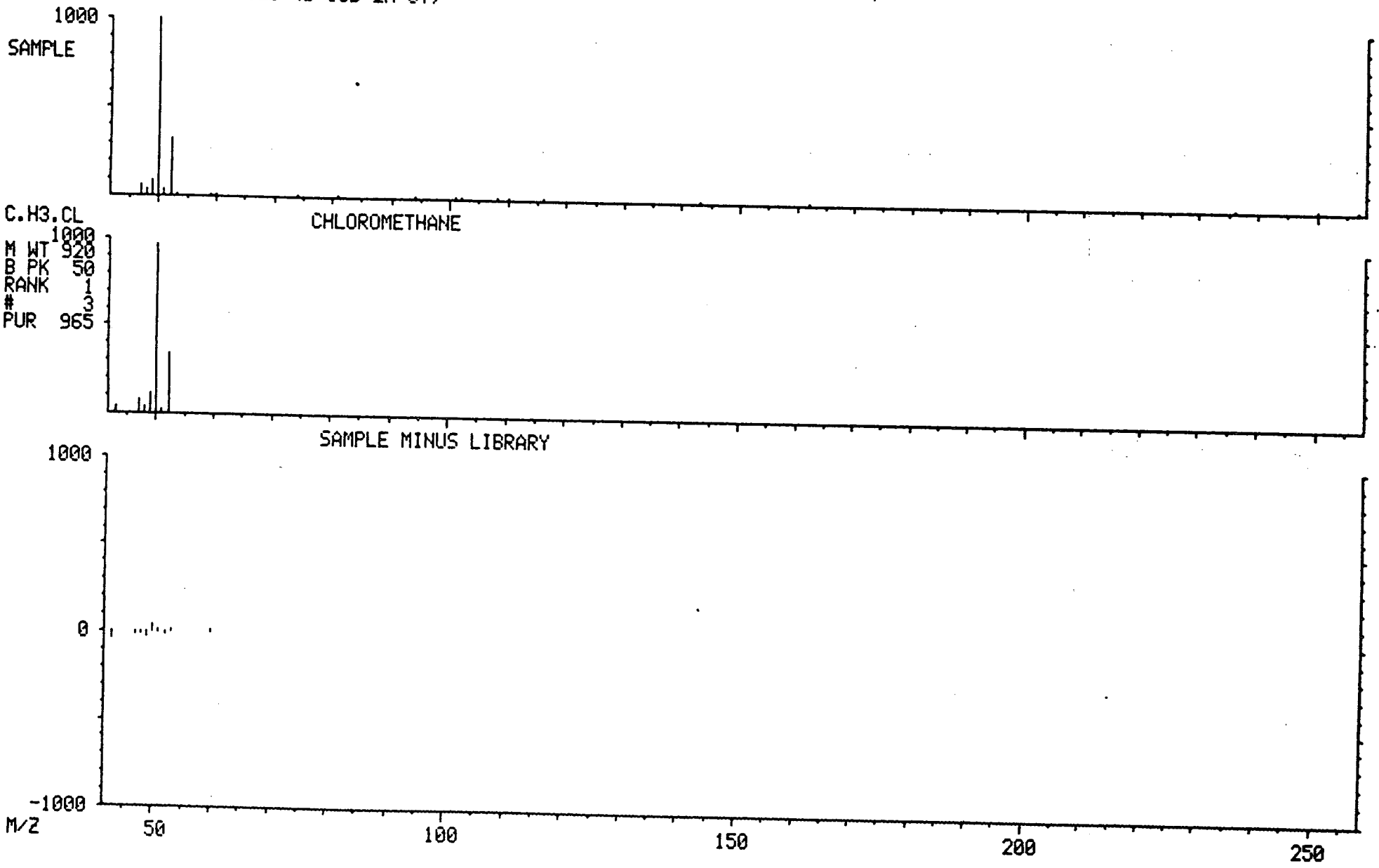


P148

LIBRARY SEARCH
08/27/87 1:48:00 + 1:15
SAMPLE: 3MLS # FIELD BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7420 # 25
CALI: PU7420 # 2

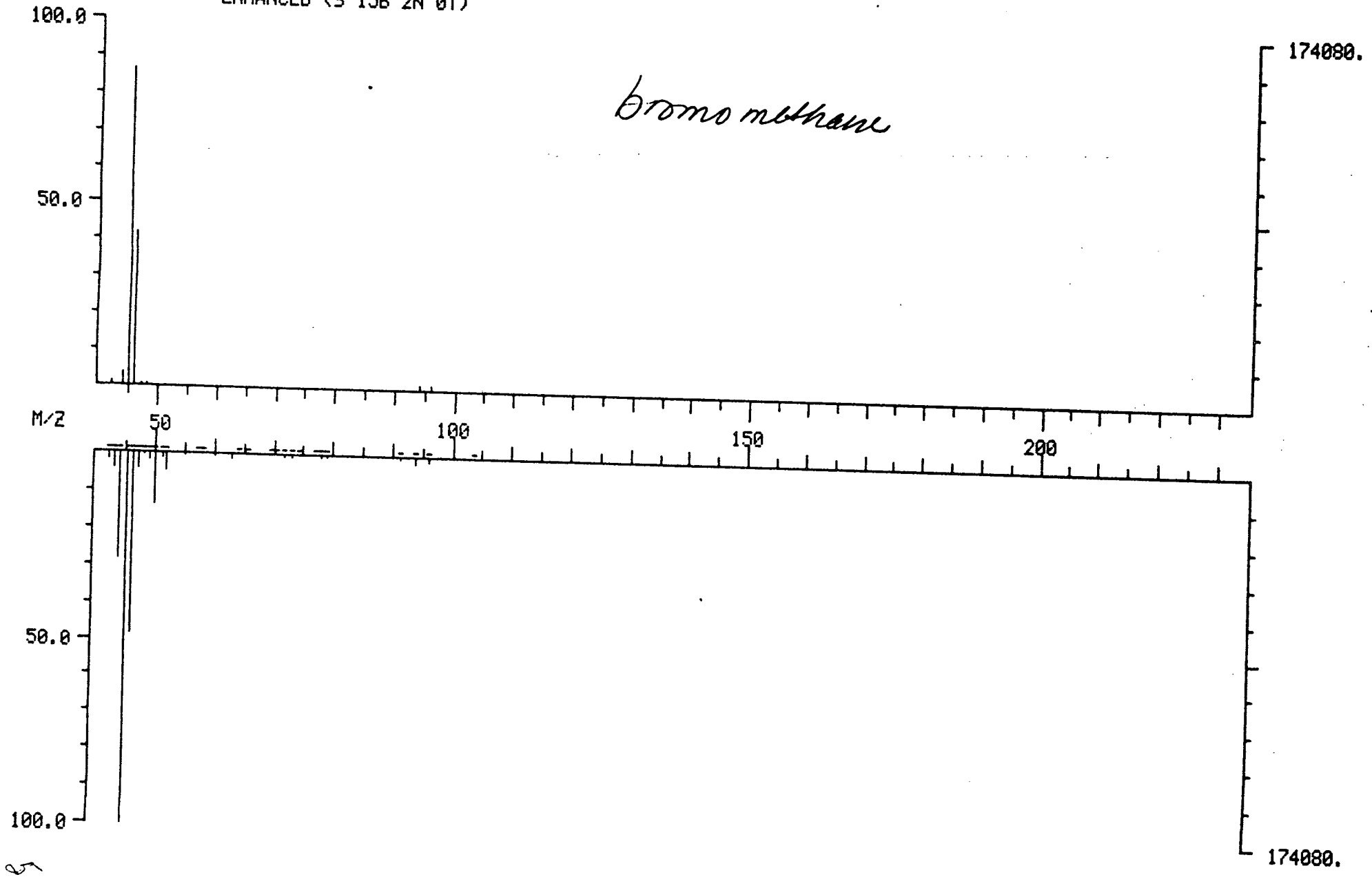
BASE M/Z: 50
RIC: 684031.



DUAL MASS SPECTRUM
08/27/87 1:48:00 + 1:57
SAMPLE: 3ML5 # FIELD BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7420 #39
CALI: PU7420 #2

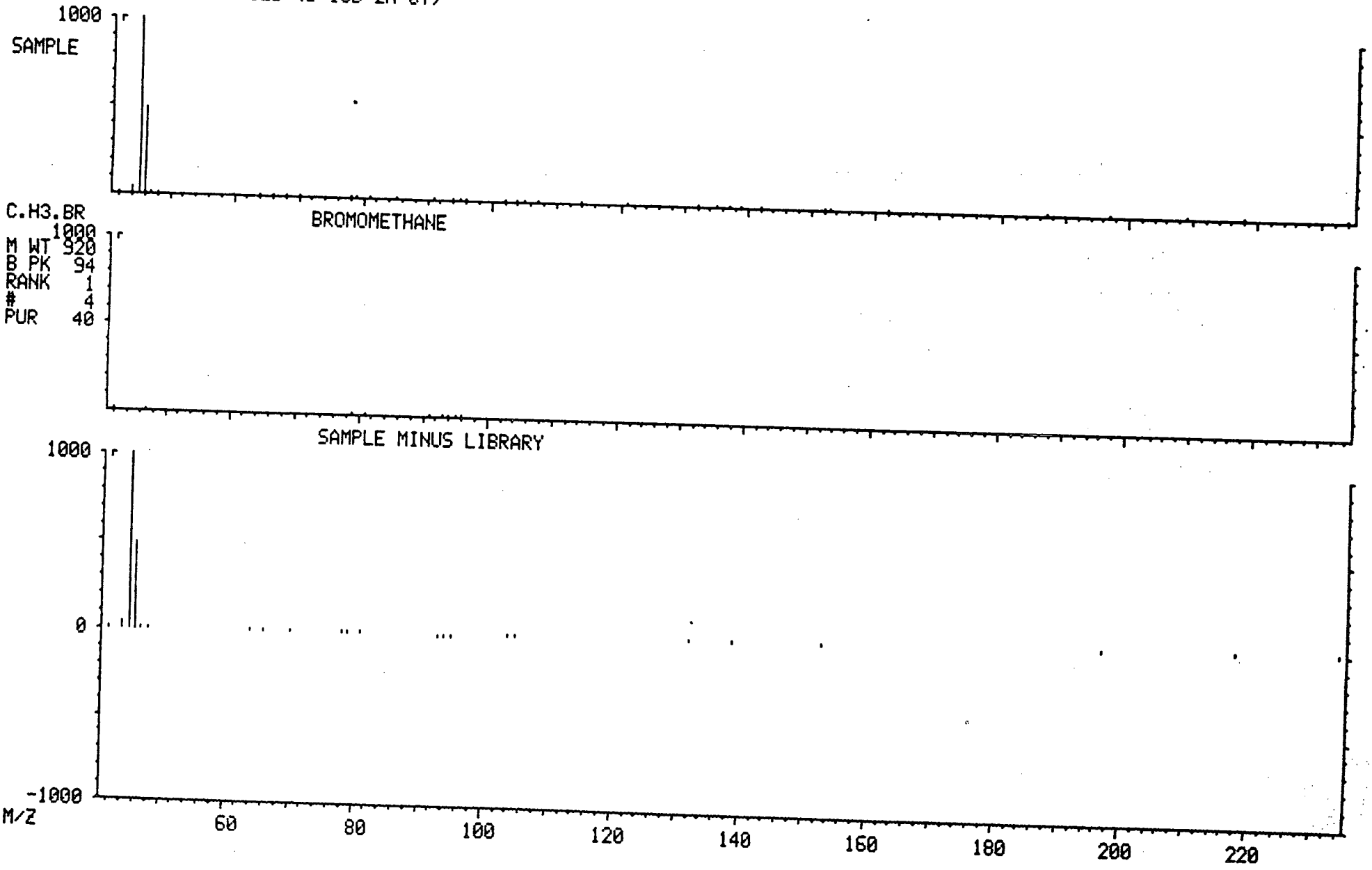
BASE M/Z: 45/ 45
RIC: 240383./ 382975.



LIBRARY SEARCH
08/27/87 1:48:00 + 1:57
SAMPLE: 3MLS # FIELD BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7420 # 39
CALI: PU7420 # 2

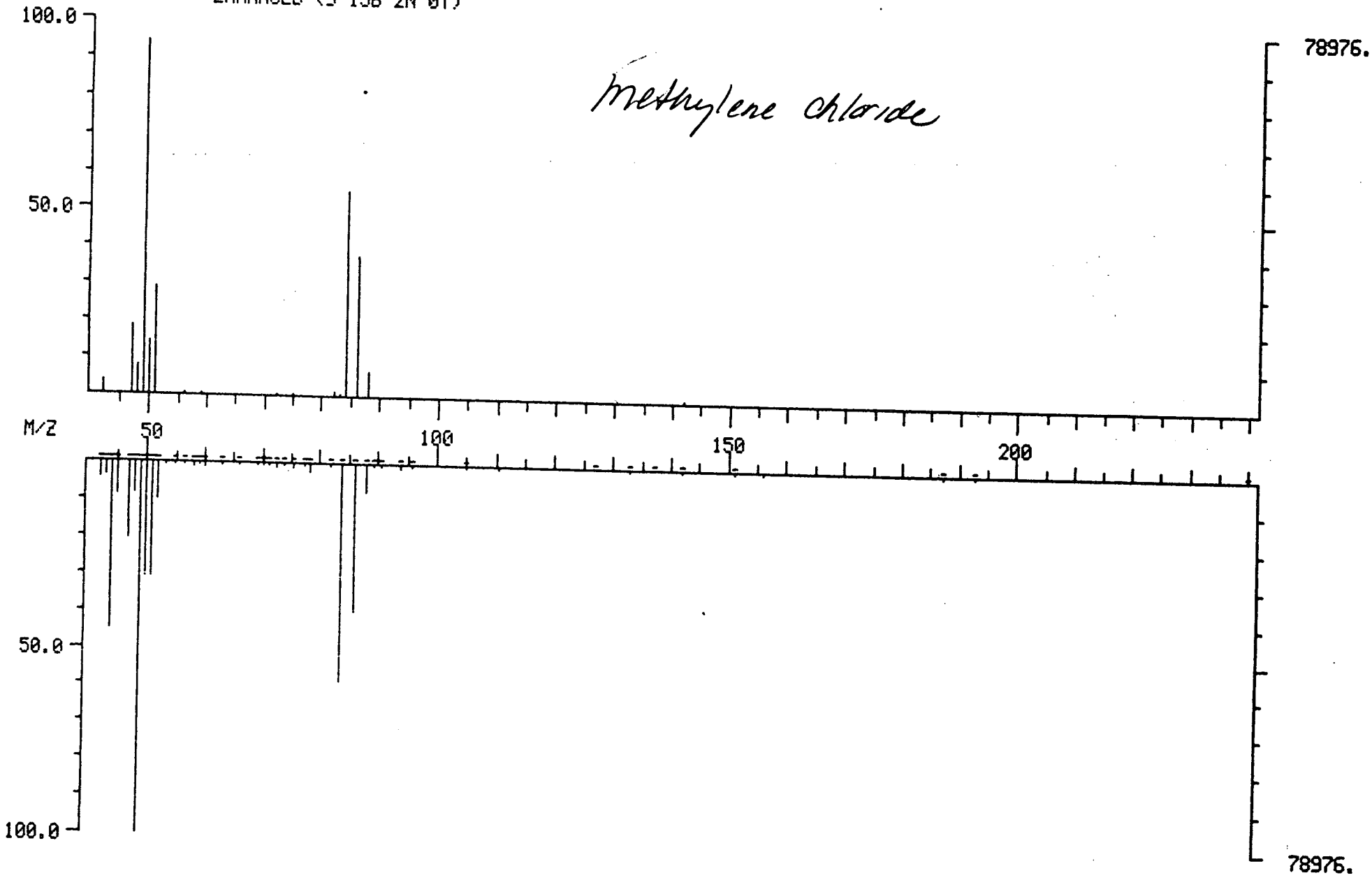
BASE M/Z: 45
RIC: 240383.



DUAL MASS SPECTRUM
08/27/87 1:48:00 + 4:33
SAMPLE: 3MLS # FIELD BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7420 #91
CALI: PU7420 #2

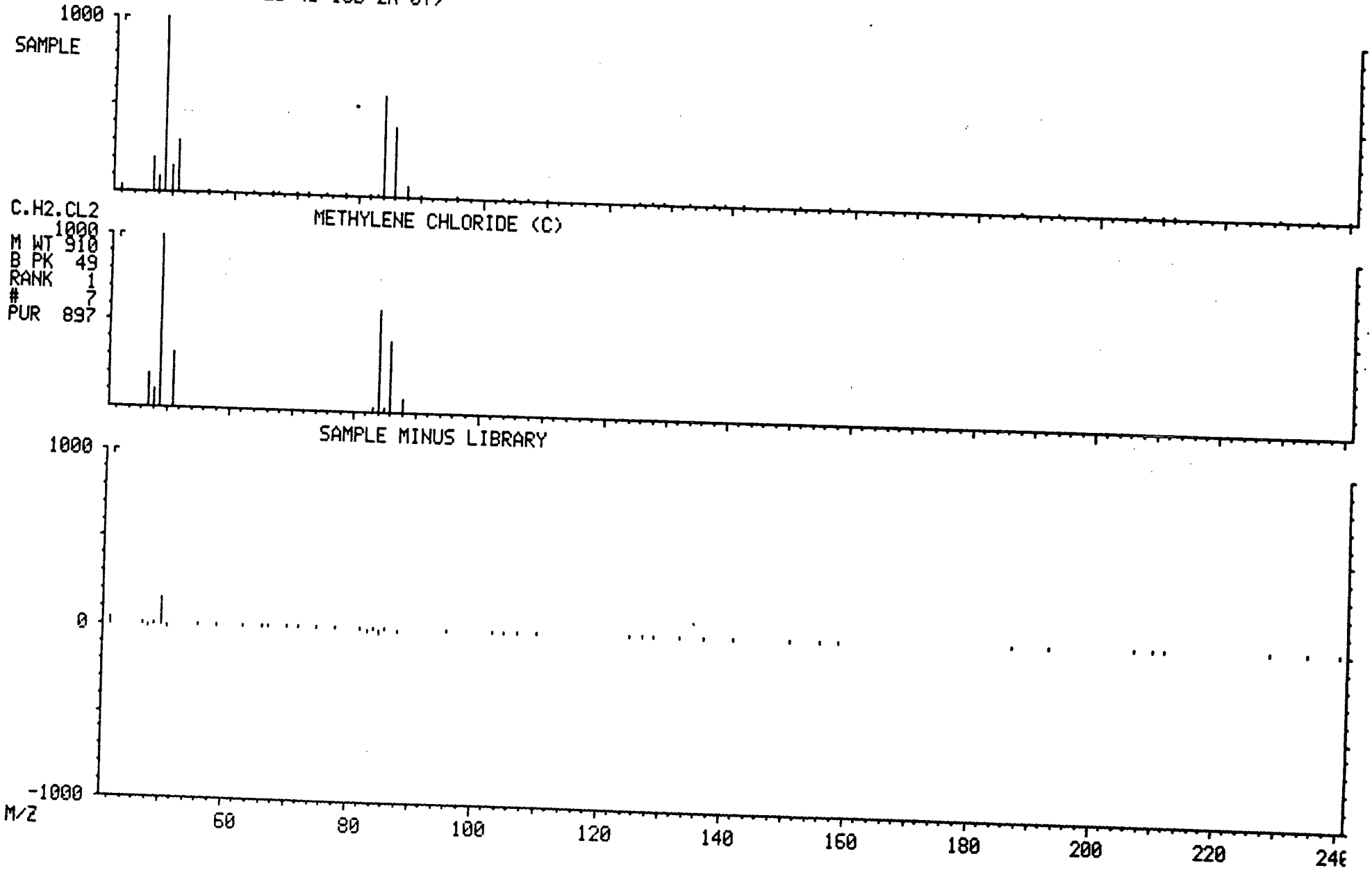
BASE M/Z: 49/ 49
RIC: 214527./ 307199.



LIBRARY SEARCH
08/27/87 1:48:00 + 4:33
SAMPLE: 3MLS # FIELD BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7420 # 91
CALI: PU7420 # 2

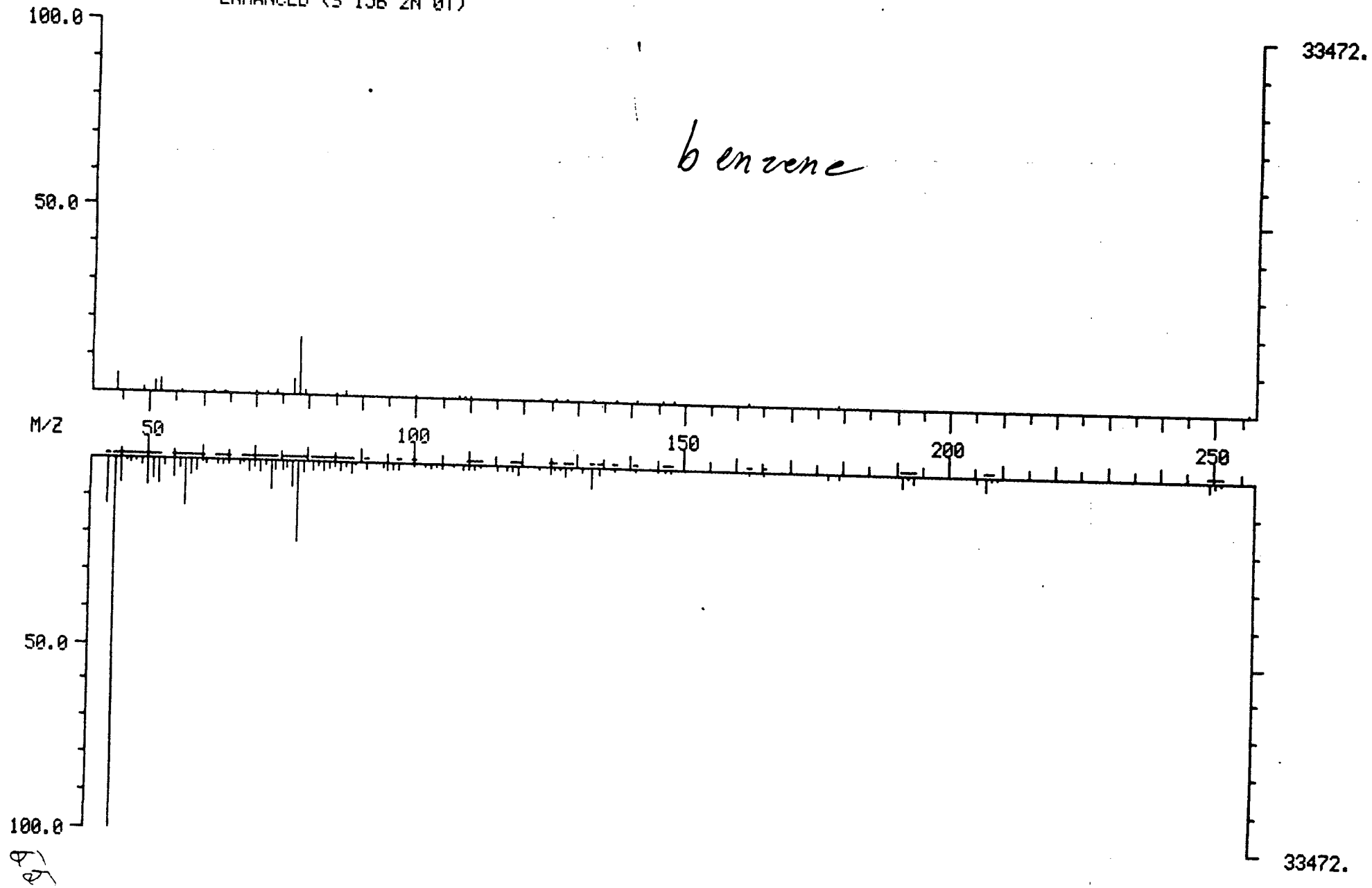
BASE M/Z: 49
RIC: 214527.



DUAL MASS SPECTRUM
08/27/87 1:48:00 + 17:06
SAMPLE: 3MLS # FIELD BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7420 #342
CALI: PU7420 #2

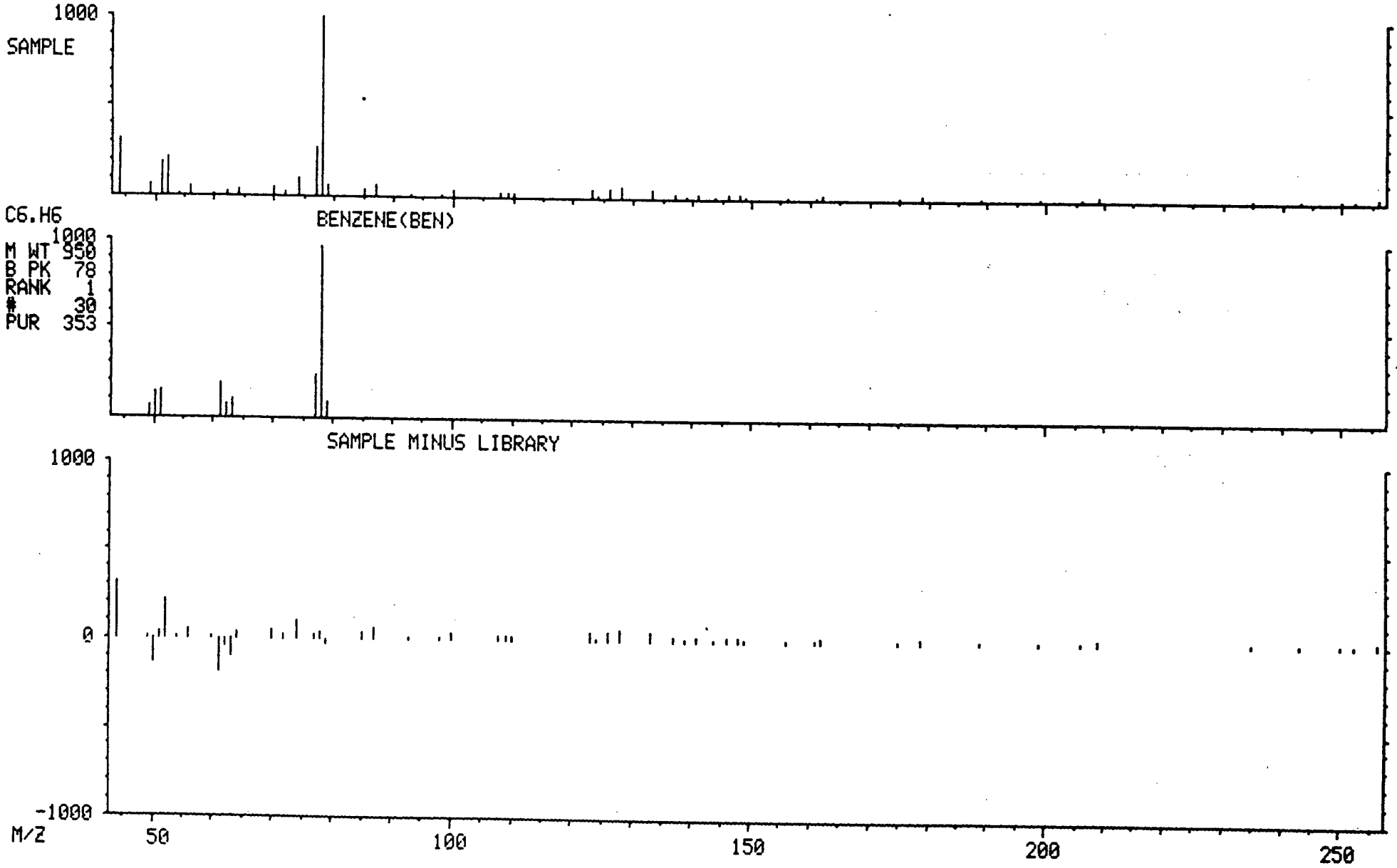
BASE M/Z: 78/ 44
RIC: 16351./ 102783.



LIBRARY SEARCH
08/27/87 1:48:00 + 17:06
SAMPLE: 3MLS # FIELD BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7420 # 342
CALI: PU7420 # 2

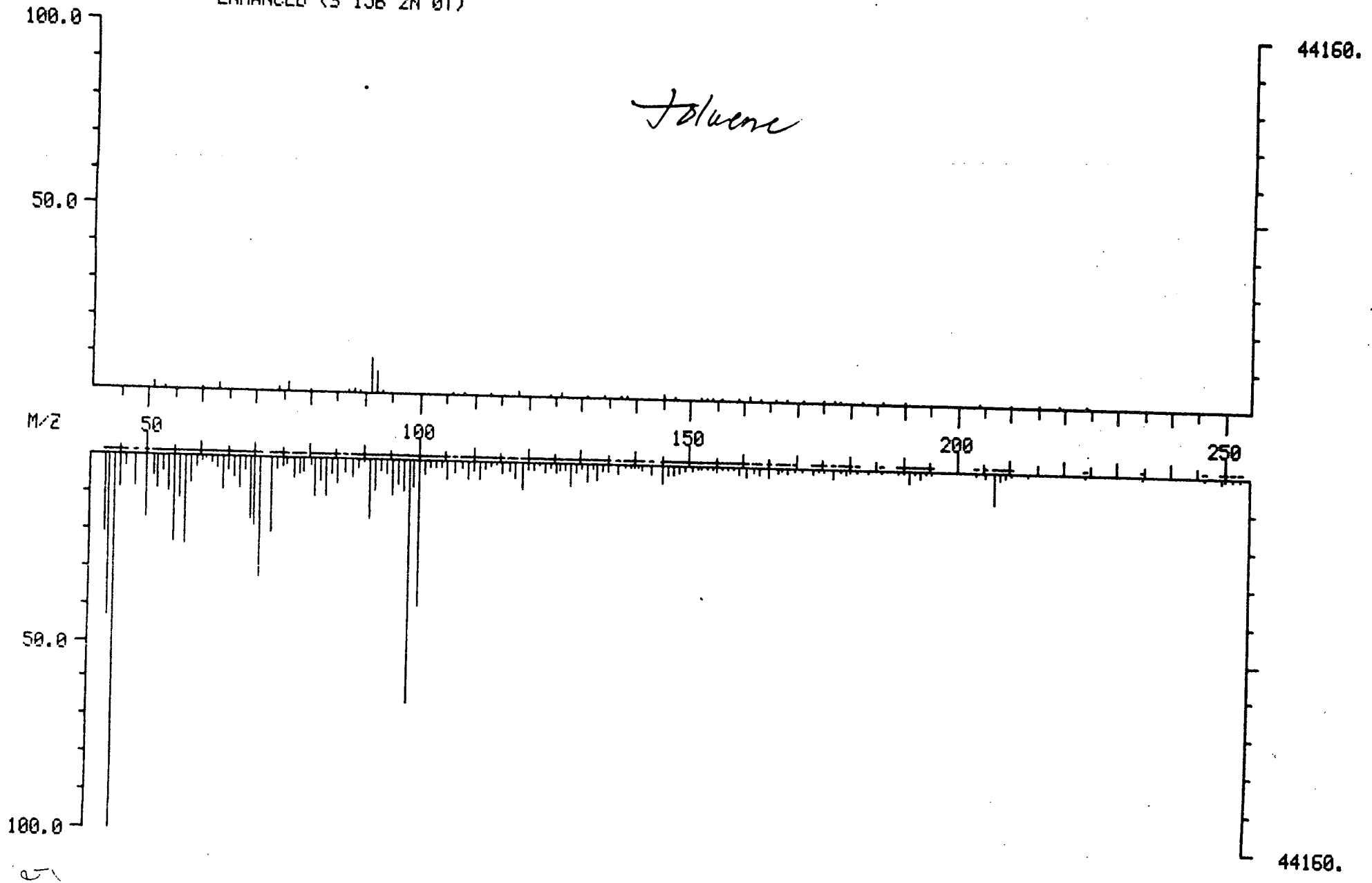
BASE M/Z: 78
RIC: 16351.



DUAL MASS SPECTRUM
08/27/87 1:48:00 + 25:06
SAMPLE: 3MLS # FIELD BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7420 #502
CALI: PU7420 #2

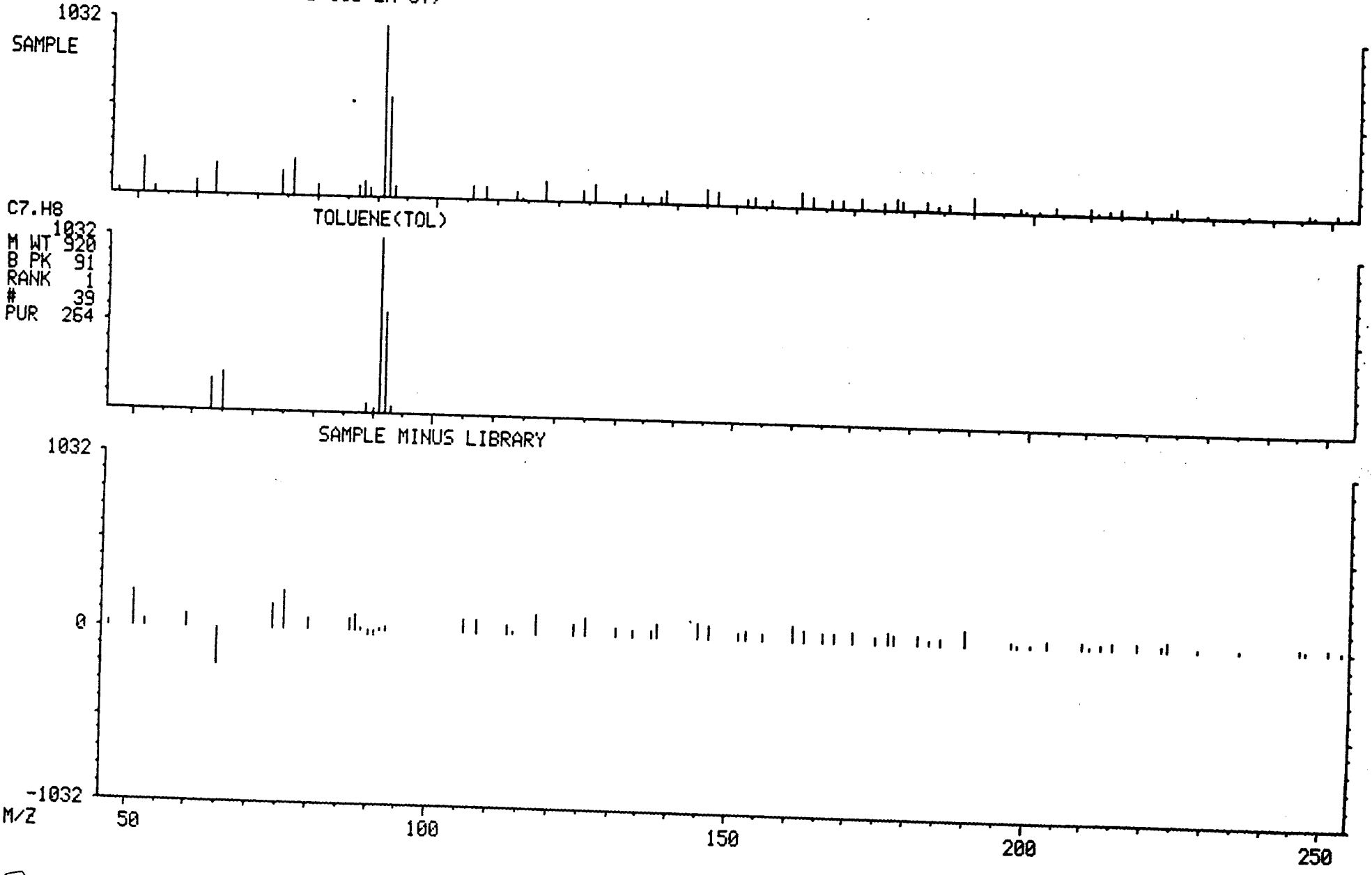
BASE M/Z: 91/ 44
RIC: 21695./ 360447.



LIBRARY SEARCH
08/27/87 1:48:00 + 25:06
SAMPLE: 3MLS # FIELD BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7420 # 502
CALI: PU7420 # 2

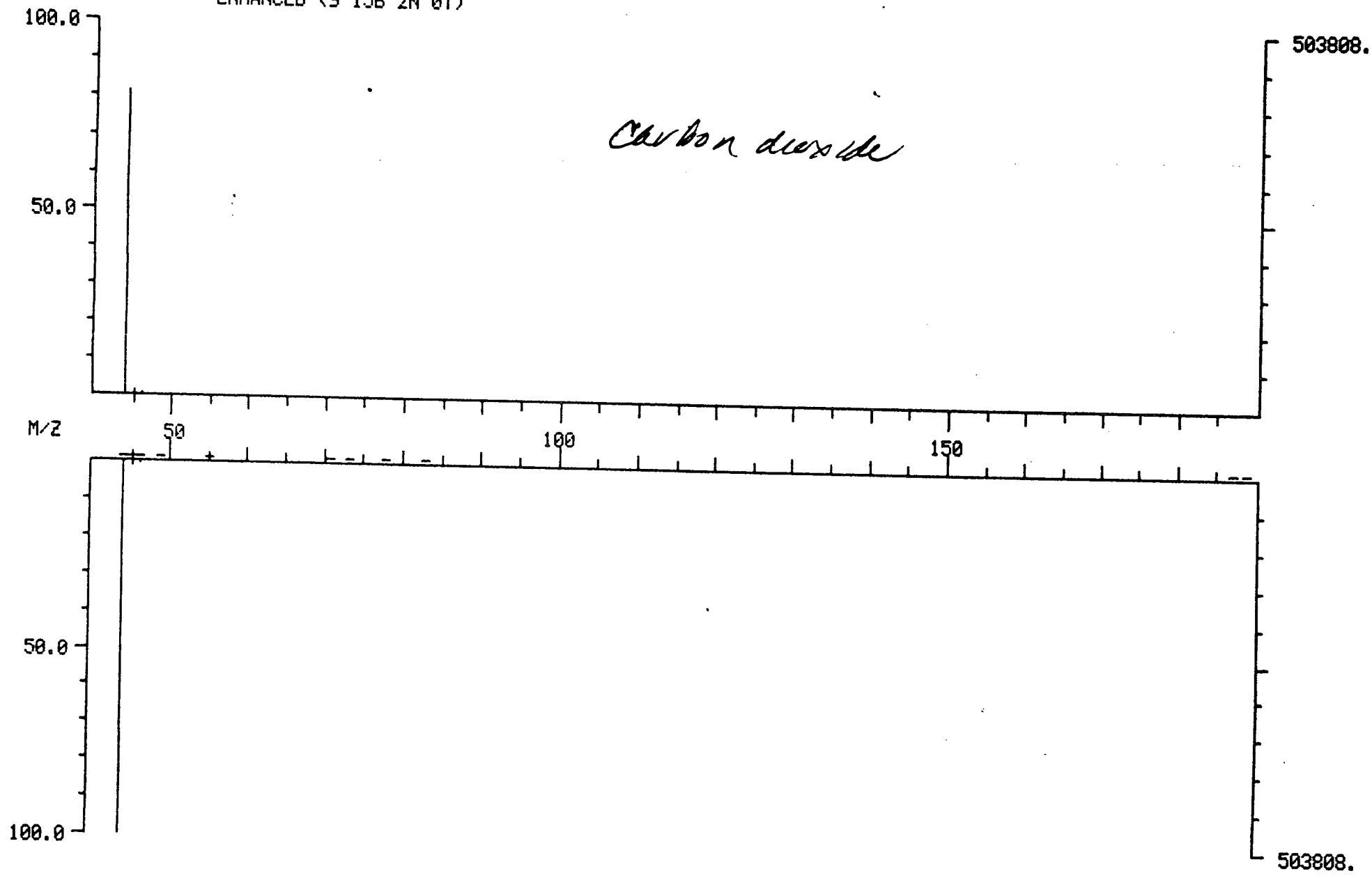
BASE M/Z: 91
RIC: 21087.



DUAL MASS SPECTRUM
08/27/87 1:48:00 + 0:45
SAMPLE: 3MLS # FIELD BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7420 #15
CALI: PU7420 #2

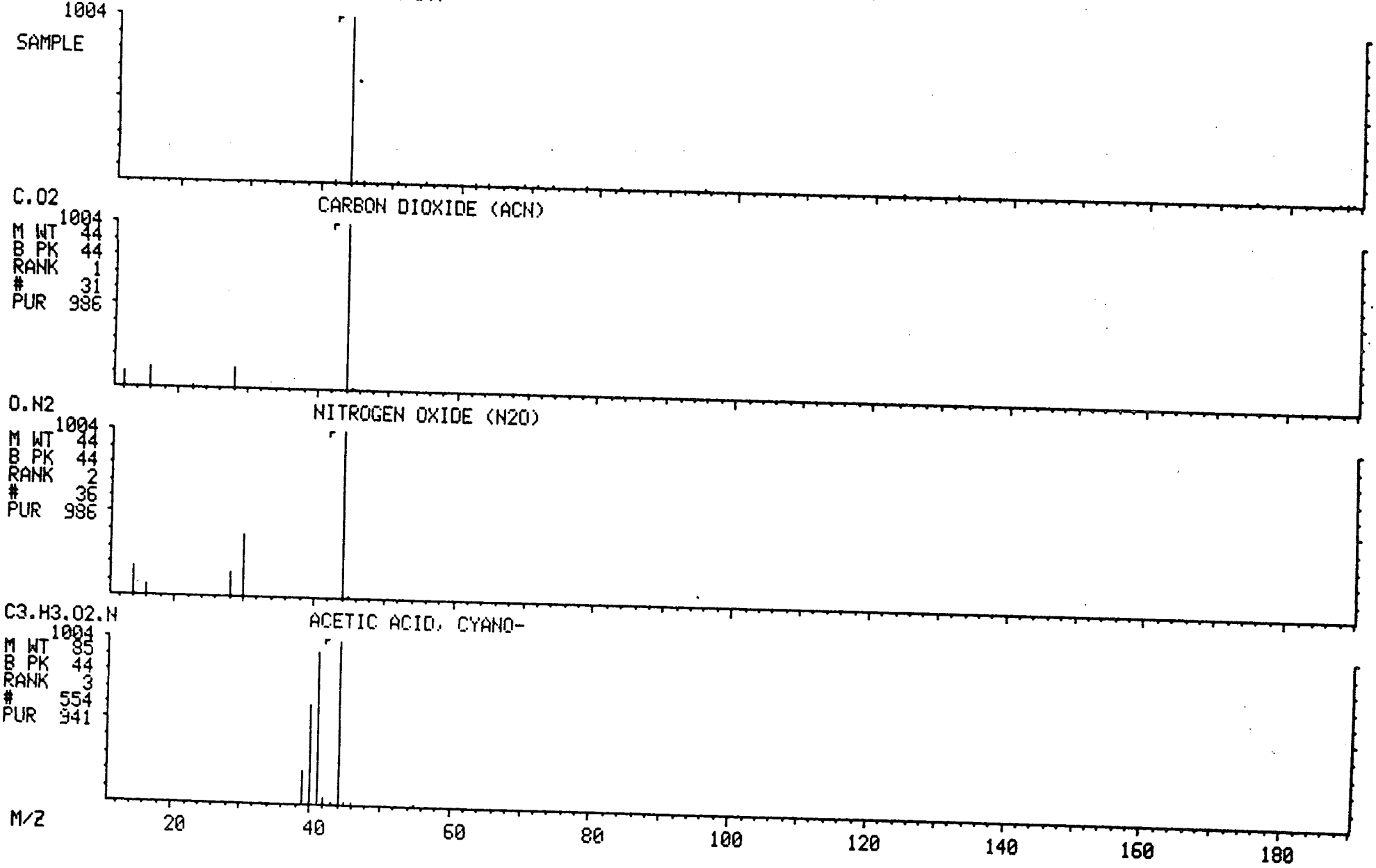
BASE M/Z: 44/ 44
RIC: 414207./ 514559.



LIBRARY SEARCH
08/27/87 1:48:00 + 0:45
SAMPLE: 3MLS # FIELD BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7420 # 15
CALI: PU7420 # 2

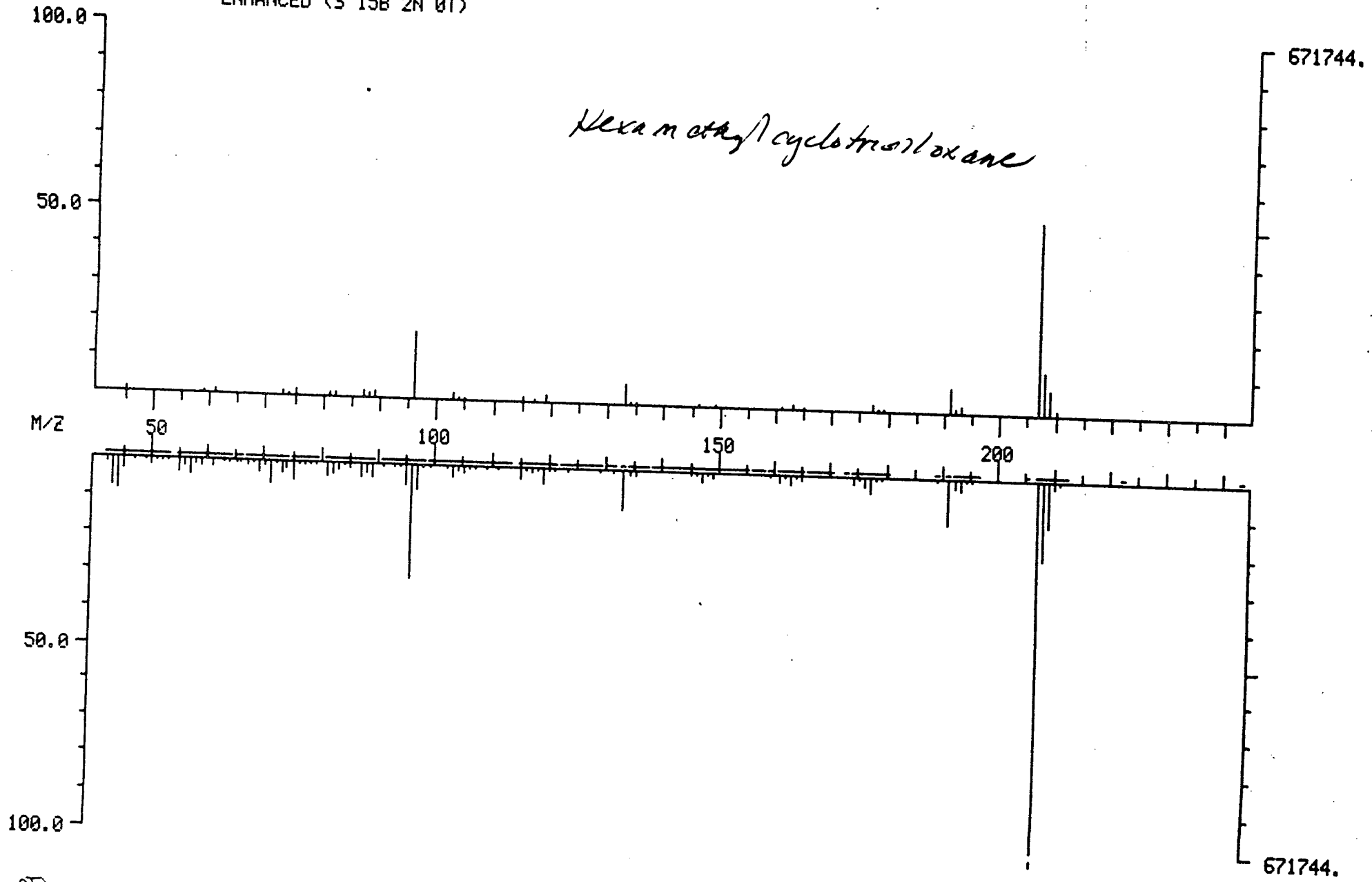
BASE M/Z: 44
RIC: 414207.



DUAL MASS SPECTRUM
08/27/87 1:48:00 + 32:15
SAMPLE: 3ML5 # FIELD BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7420 #645
CALI: PU7420 #2

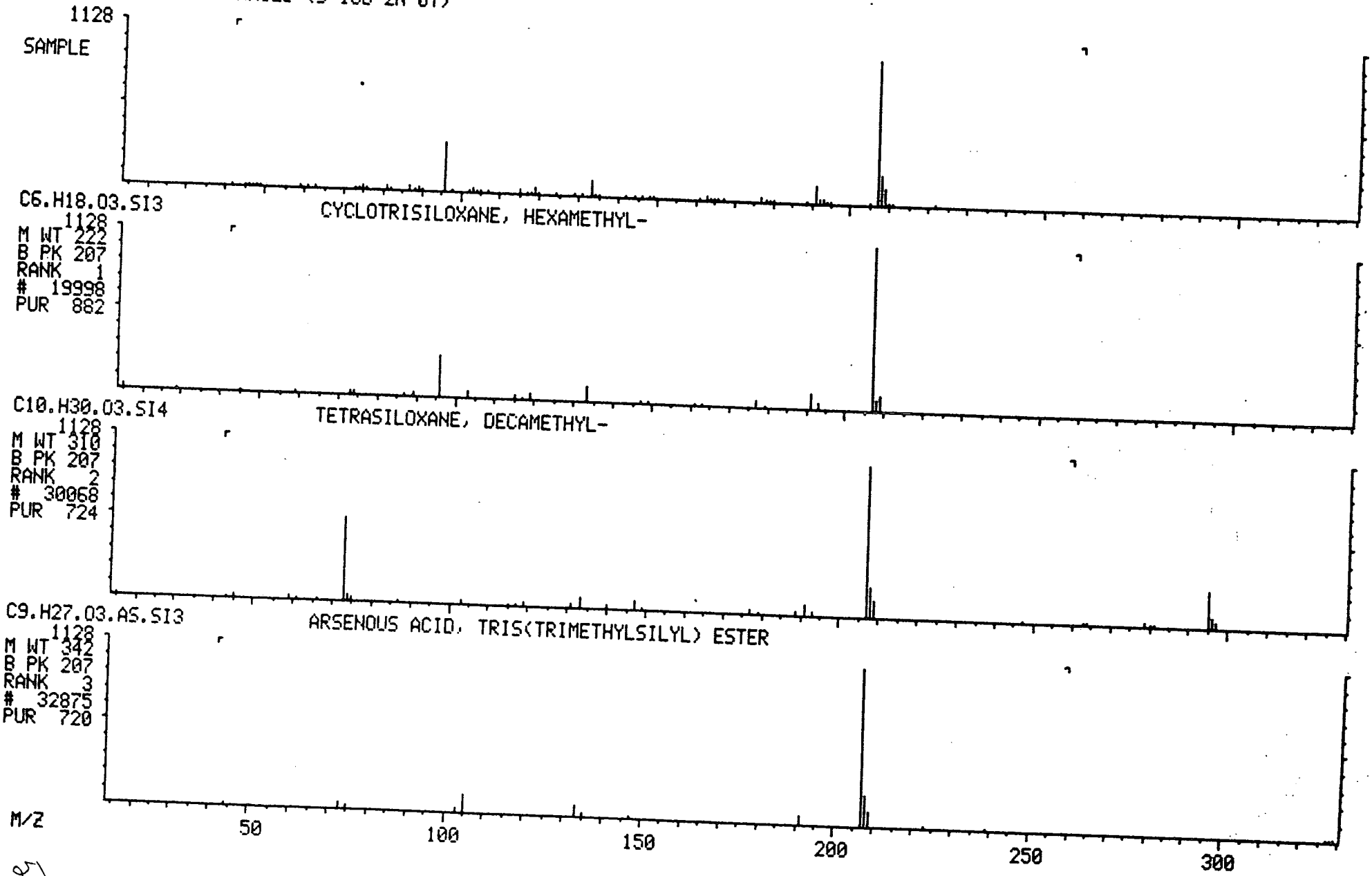
BASE M/Z: 207/ 207
RIC: 894975./ 2330620.



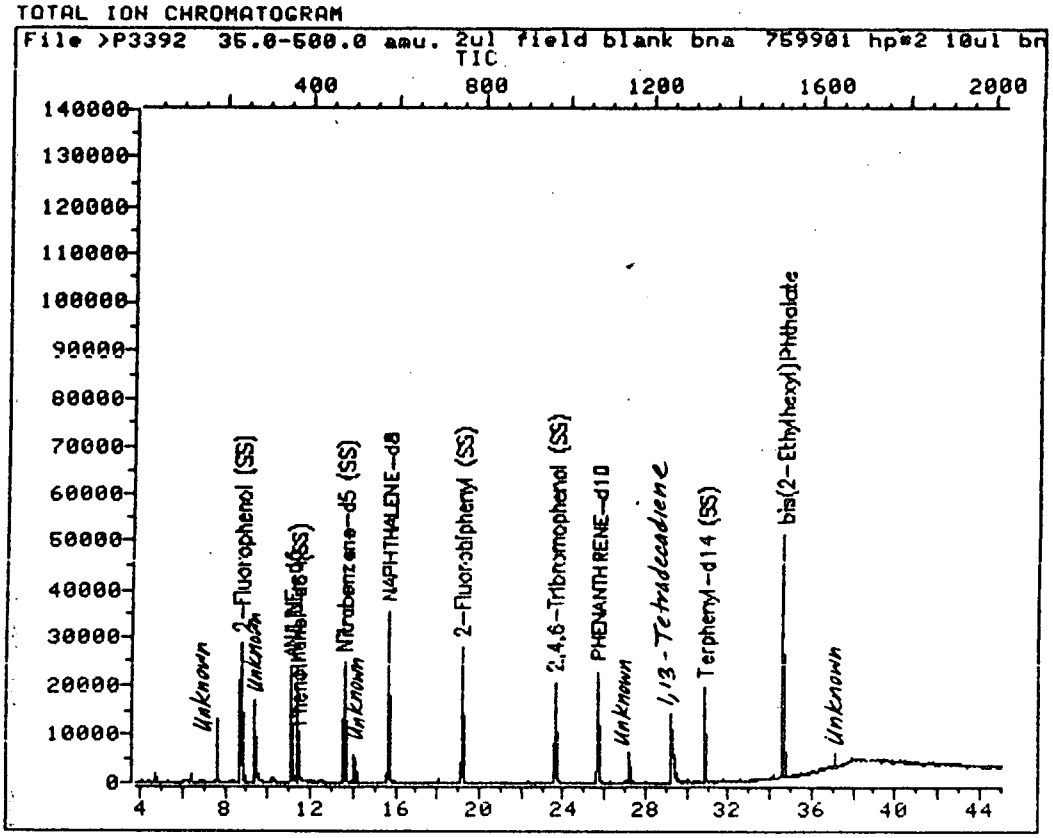
LIBRARY SEARCH
08/27/87 1:48:00 + 32:15
SAMPLE: 3MLS # FIELD BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7420 # 645
CALI: PU7420 # 2

BASE M/Z: 207
RIC: 892927.



TOTAL ION CHROMATOGRAM



Data File: >P3392::B2 Quant Output File: ^P3392::QT
Name: 2ul field blank bna
Misc: 759901 hp#2 10ul bn488=>1ml BTL#62

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870909 22:47
Injected at: 870909 22:00

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 870909 22:47
Output File: ^P3392::QT Injected at: 870909 22:00
Data File: >P3392::B2 Dilution Factor: 1.00000
Name: 2ul field blank bna
Misc: 759901 hp#2 10ul bn488=>1ml BTL#62

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.08	359	17725	42.85	ug/mL	86
3)	2-Fluorophenol (SS)	8.68	241	20026	71.00	ug/mL	40
4)	Phenol	11.39	374	1275	3.01	ug/mL	90
6)	Phenol-d6 (SS)	11.37	373	18087	46.18	ug/mL	73
14)	*NAPHTHALENE-d8	15.62	582	35257	41.04	ug/mL	60
15)	Nitrobenzene-d5 (SS)	13.57	481	17108	34.63	ug/mL	76
29)	2-Fluorobiphenyl (SS)	19.13	754	22579	44.00	ug/mL	97
40)	2,4,6-Tribromophenol (SS)	23.58	973	10954	40.73	ug/mL	74
41)	*PHENANTHRENE-d10	25.66	1075	24696	41.02	ug/mL	73
51)	Terphenyl-d14 (SS)	30.86	1330	21528	48.75	ug/mL	41
57)	bis(2-Ethylhexyl)Phthalate	34.64	1516	27261	47.91	ug/mL	80

* Compound is ISTD

MS data file header from : >P3392

Sample: 2ul field blank bna Operator: GLENN MS 9/09/87 22:00
Misc : 759901 hp#2 10ul bn488=>1ml BTL#62
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

P3392 2ul field blank bna 759901 hp#2 10ul bn488=>1ml
35.01 500.0 CLP ADC TIC
bslope: .20 Area Reject: 5934. Max Peaks: 6 Bunching: 1
mslope: 0.00 Results File IP3392 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	7.56	183	186	197	12857	32906	32119	34.16	14.432
2	9.37	272	275	285	17095	61558	60430	64.27	27.153
3	14.03	502	504	507	5463	14355	13665	14.53	6.140
4	27.23	1149	1152	1155	6344	15448	15051	16.01	6.763
5	29.25	1248	1251	1265	13995	96055	94018	100.00	42.245
6	37.07	1633	1635	1639	2914	30284	7273	7.74	3.268

Sum of corrected areas: 222556.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	42.8	59337.	11.08	3.79 - 13.35
2	41.0	83482.	15.62	13.35 - 20.64
3	41.0	68271.	25.66	20.64 - 45.03

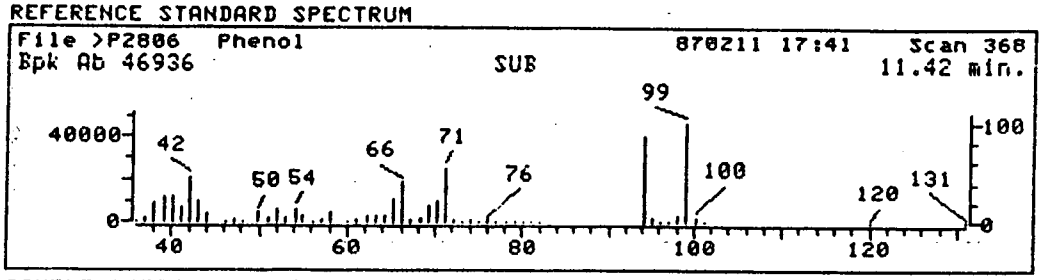
Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 0.00 Amount Used (AU) = 0.00

Correction Factor = ******** = (AM / AU) / (DF * FS)

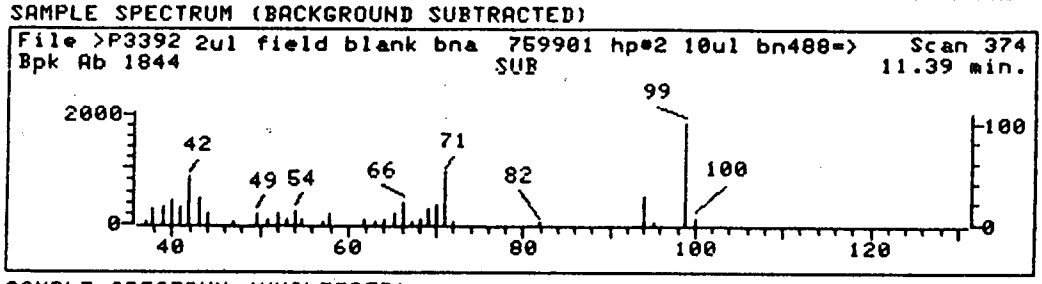
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unk} * \text{Correction Factor}$$

10:54 PM WED., 9 SEPT, 1987

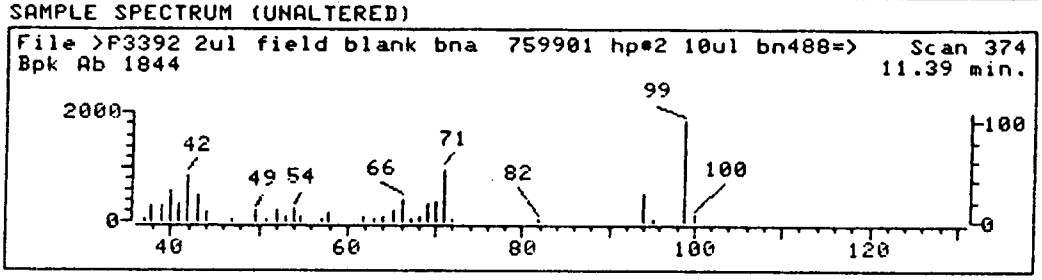
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



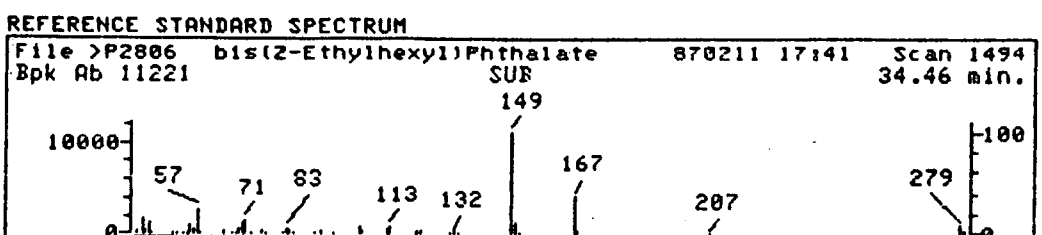
SAMPLE SPECTRUM (UNALTERED)



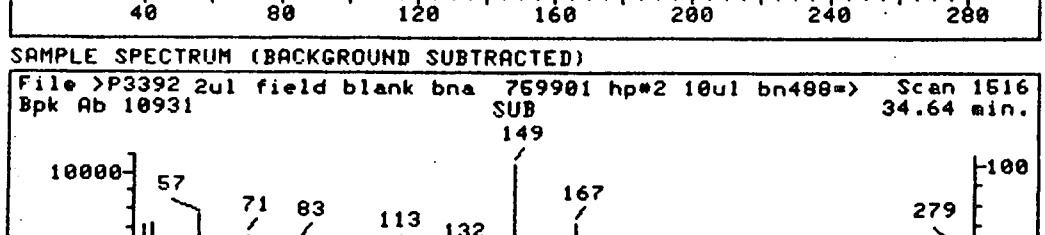
Data File: >P3392::B2 Quant Output File: ^P3392::QT
Name: 2ul field blank bna
Misc: 759901 hp#2 10ul bn488=>1ml BTL#62
Quant Time: 870909 22:47 Quant ID File: ID_625::ME
Injected at: 870909 22:00 Last Calibration: 870909 17:00

Compound No: 4
Compound Name: Phenol
Scan Number: 374
Retention Time: 11.39 min.
Quant Ion: 94.1
Area: 1275
Concentration: 3.01 ug/mL
q-value: 90

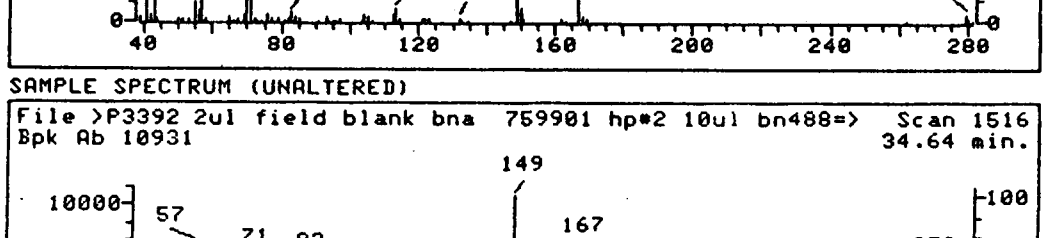
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

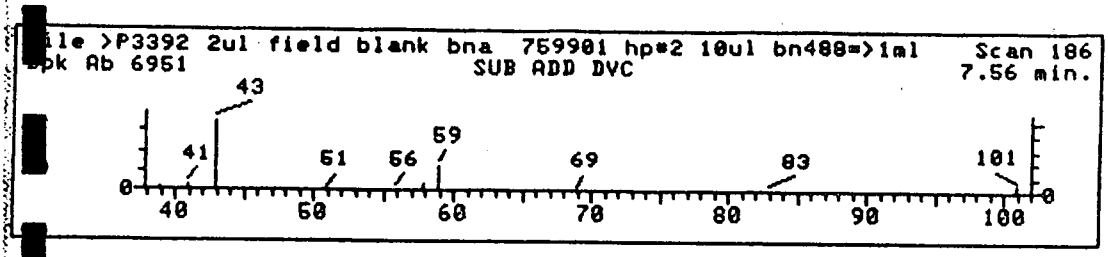


SAMPLE SPECTRUM (UNALTERED)



Data File: >P3392::B2 Quant Output File: ^P3392::QT
Name: 2ul field blank bna
Misc: 759901 hp#2 10ul bn488=>1ml BTL#62
Quant Time: 870909 22:47 Quant ID File: ID_625::ME
Injected at: 870909 22:00 Last Calibration: 870909 17:00

Compound No: 57
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1516
Retention Time: 34.64 min.
Quant Ion: 149.0
Area: 27261
Concentration: 47.91 ug/mL
q-value: 80



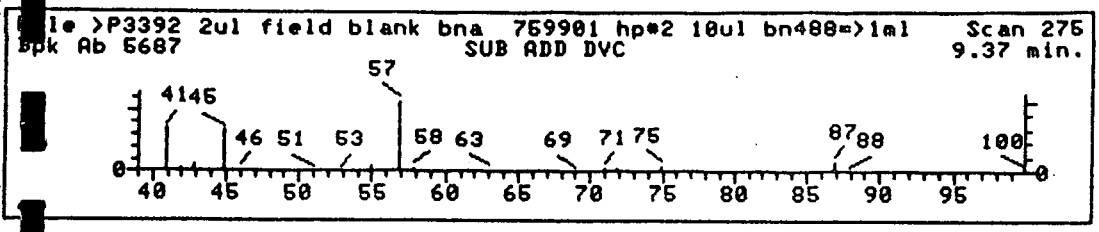
Unknown #,1

Area = 32119.00 Tentative Concentration is 23.00

Sample file: >P3392 Spectrum #: 186

No data base entries were retrieved.

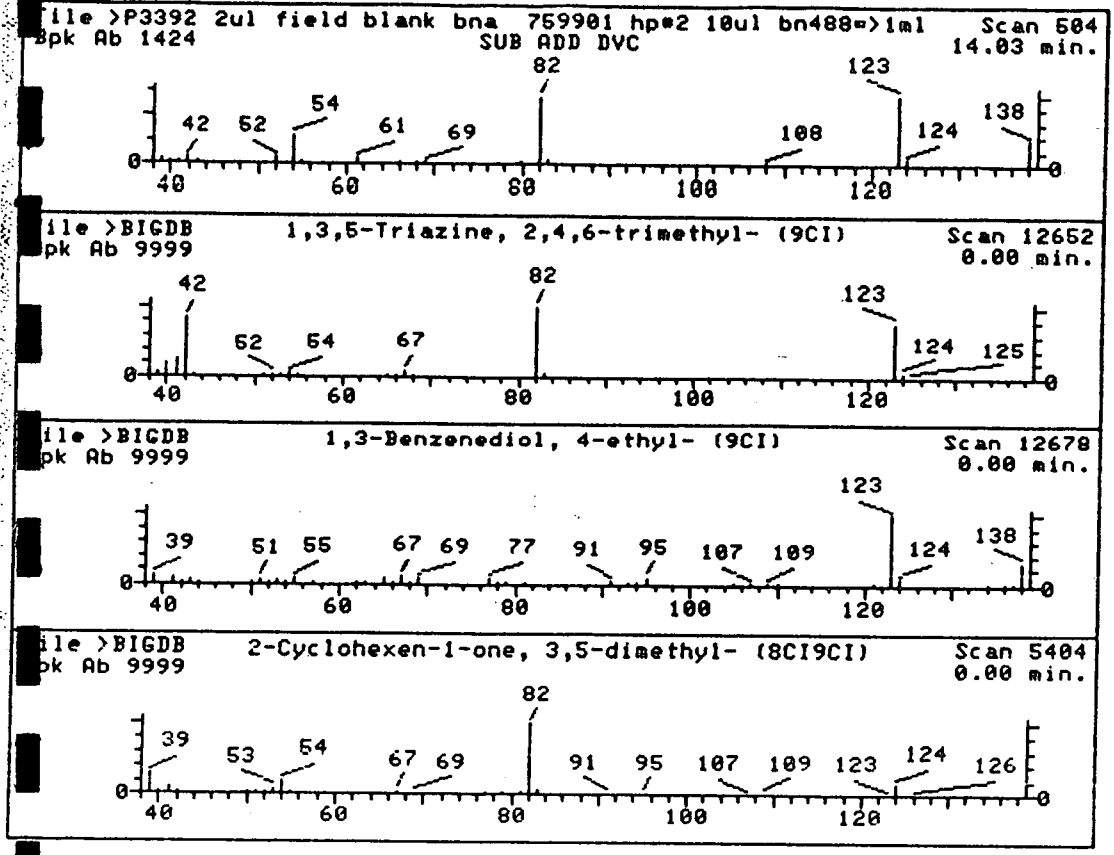
56



Unknown #,2
Area = 60430.00 Tentative Concentration is 44.00

Sample file: >P3392 Spectrum #: 275

No data base entries were retrieved.



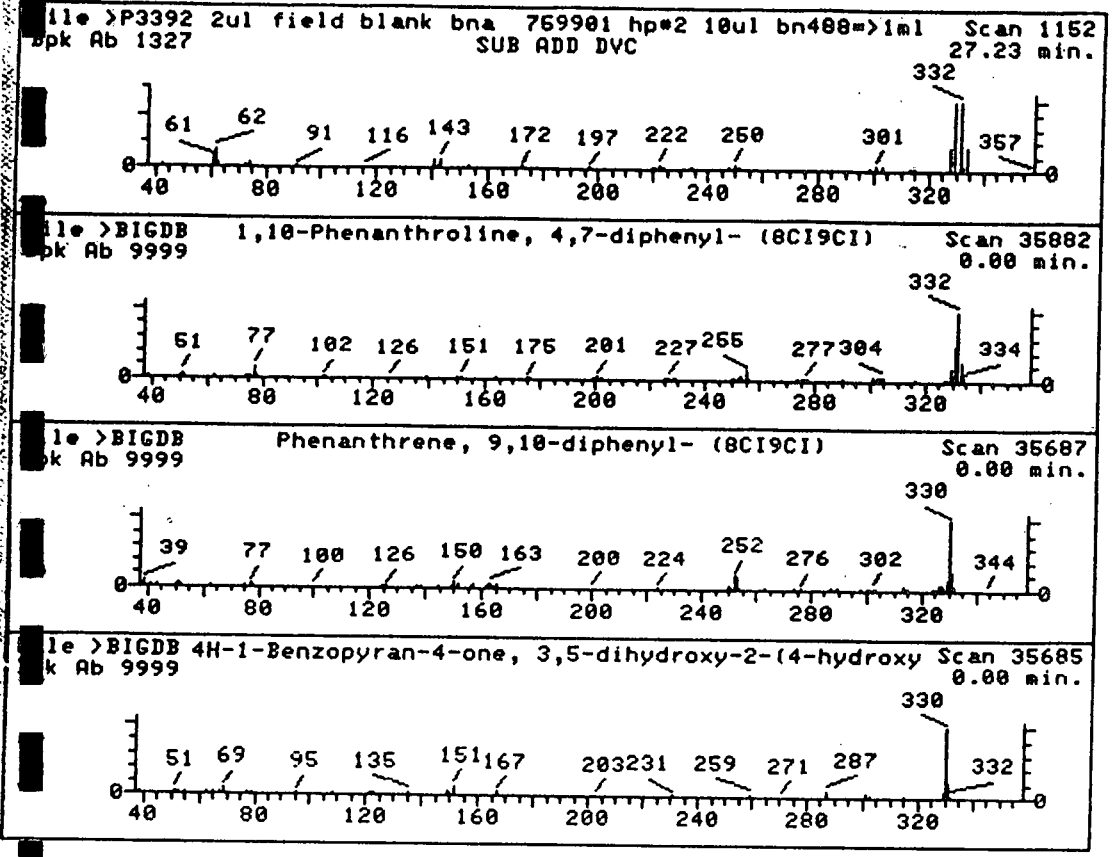
Unknown #,3

rea = 13665.00 Tentative Concentration is 7.00

1.	1,3,5-Triazine, 2,4,6-trimethyl- (9CI)	123 C6H9N3
2.	1,3-Benzenediol, 4-ethyl- (9CI)	138 C8H10O2
3.	2-Cyclohexen-1-one, 3,5-dimethyl- (8CI9CI)	124 C8H12O

Sample file: >P3392 Spectrum #: 504
Search speed: 1 Tilting option: N No. of ion ranges searched: 47

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	30*	823949	12652	"BIGDB	29	56	3	0	96	31	12	13

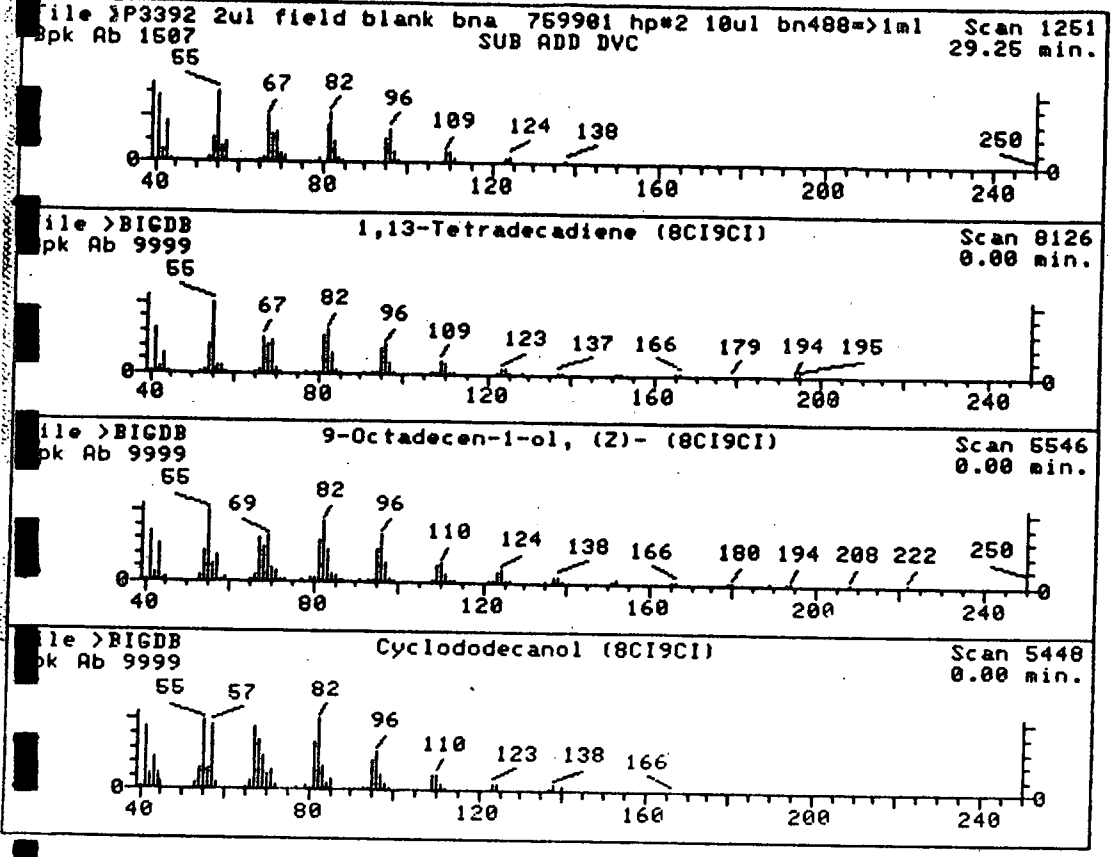


Unknown #,4
rea = 15051.00 Tentative Concentration is 9.00

1.	1,10-Phenanthroline, 4,7-diphenyl- (8CI9CI)	332 C24H16N2
2.	Phenanthrene, 9,10-diphenyl- (8CI9CI)	330 C26H18
3.	4H-1-Benzopyran-4-one, 3,5-dihydroxy-2-(4-hydroxy-3-methoxyphenyl)-7-methoxy- (9CI)	330 C17H1407
4.	Iron, (.eta.5-2,4-cyclopentadien-1-yl)[(1,2,3,3a,7a-.eta.)-4,5,6,7-tetrahydro-4-hydroxy-5-phenyl-1H-inden-1-yl]-, stereoisomer (VAN9	332 C20H20FeO
5.	1,4-Benzenediamine, N,N'-dioctyl- (9CI)	332 C22H40N2

ample file: >P3392 Spectrum #: 1152
Search speed: 1 Tilting option: N No. of ion ranges searched: 46

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	15*	1662017	35882	"BIGDB	23	133	2	0	100	58	3	13



Unknown #,5

Area = 94018.00 Tentative Concentration is 56.00

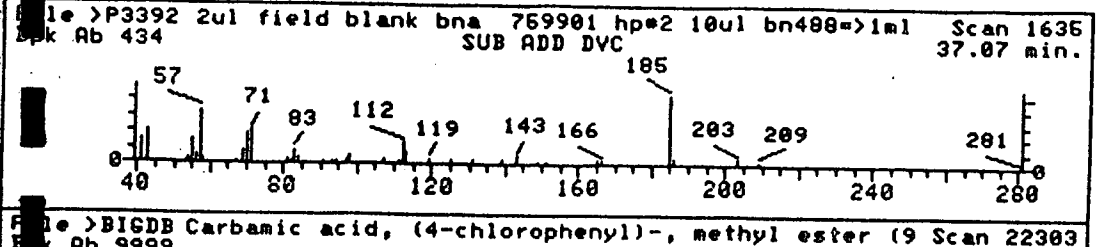
1.	1,13-Tetradecadiene (8CI9CI)	194 C14H26
2.	9-Octadecen-1-ol, (Z)- (8CI9CI)	268 C18H36O
3.	Cyclododecanol (8CI9CI)	184 C12H24O
4.	1,14-Tetradecanediol (8CI9CI)	230 C14H30O2
5.	1,12-Dodecanediol (8CI9CI)	202 C12H26O2
6.	Bicyclo[8.2.0]dodecane, 11,11-dimethyl- (9CI)	194 C14H26
7.	Cyclododecene, (E)- (8CI9CI)	166 C12H22

Sample file: >P3392 Spectrum #: 1251

Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	89	21964498	8126	"BIGDB	117	11	2	0	87	5	66	60
2.	83	143282	5546	"BIGDB	89	79	2	0	62	3	57	26

572



Unknown #,6

Area = 7273.00 Tentative Concentration is 4.00

1. Carbamic acid, (4-chlorophenyl)-, methyl ester (9CI) 185 C8H8ClNO2

Sample file: >P3392 Spectrum #: 1635

Search speed: 1 Tilting option: N No. of ion ranges searched: 48

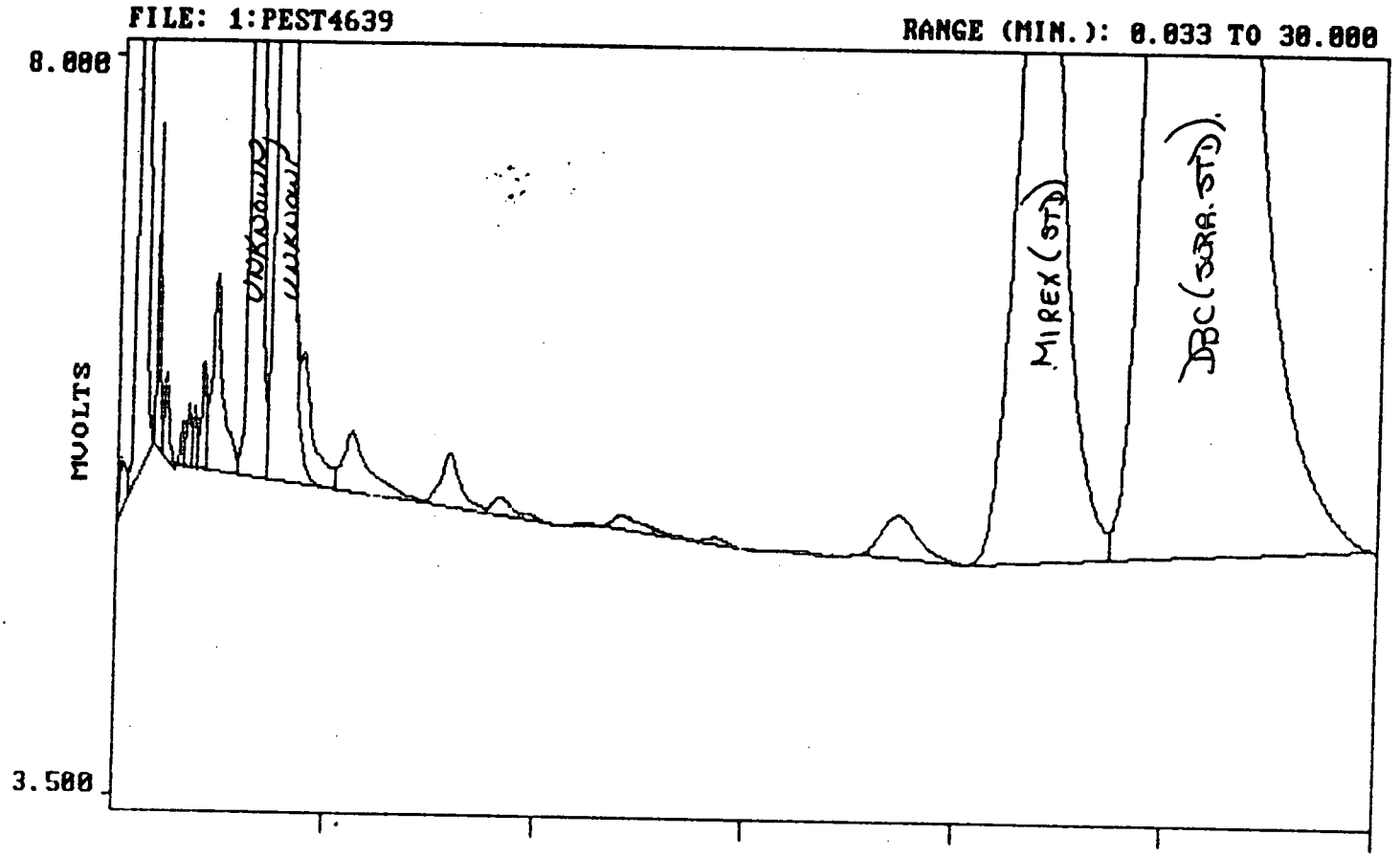
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15*	940363	22303	"BIGDB	23	103	3	0	100	60	3	12

FIELD BLANK

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:11:43:08 Date:THU 10 SEP 87

Time:08:58:07 Date:THU 10 SEP 87
Method:PEST1



Channel # . . . 4 Time:09:29:33 Date:THU 10 SEP 87
Run #29 of 50

Sample name . . . . . .
Data file DAT351:PEST4639
Method name PEST1

Author . . . . . URM
Instrument 4
Column . . . . . 1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes . . . . . SUPELCOPORT

Run time . . . . . 30.00 min. Delay time . . . 0.00 min.
Acq. time . . . . . 08:58:07 Acq. date . . . . THU 10 SEP 87
Start PW . . . . . 20.00 sec. End PW . . . . . 150.00 sec.
Actual PW . . . 140.0
Slope sens . . . . 0.70 uv/sec.

Area reject . . . 500
peaks found . 24
Vol. Inj . . . . . 5.0 ul Sample amount . . 1.000
Conv. factor . . . 1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.575	LINDANE	0	
2.924	beta-BHC	0	
3.393	delta-BHC	0	
5.760	HEPTACHLOR EPOXI	0	
7.139	ENDOSULFAN I	0	
8.208	P,P'-DDE	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
12.395	P,P'-DDD	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
22.759	MIREX (STD.)	0	S
27.978	DBC/METHOX/END.K	0	

Bonarell 9/7/87

==========

AREA PERCENT REPORT

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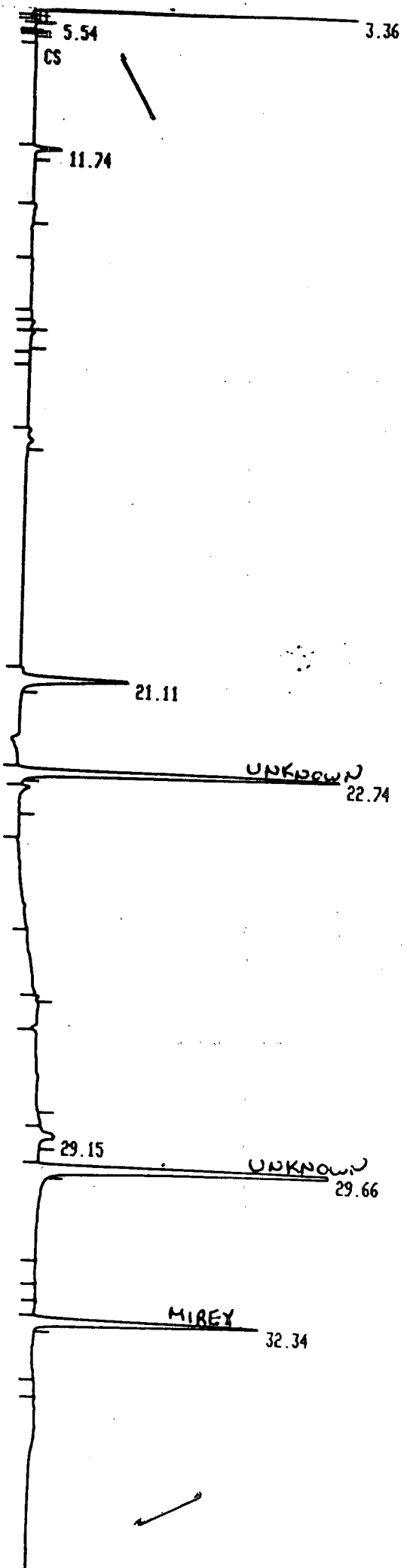
Peak R.T.(min) B/S Peak name Area %

573

1	0.133		0.063	4173	350	BV
2	0.509		53.538	3524412	763954	VB
3	0.941		0.162	10694	2131	BV
4	1.161		0.067	4397	551	VB
5	1.542		0.026	1712	302	BV
6	1.689		0.044	2891	415	VV
7	1.829		0.042	2732	399	VV
8	2.019	~~alpha-BHC~~ MLK	0.096	6317	698	VV
9	2.331		0.334	22013	1259	VV
10	3.165	~~HEPTACHLOR~~ MLK	2.558	168384200/1.0	13538	VV
11	3.804	~~ALDRIN~~ MLK	5.128	337599200/2.0	22679	VE
12	4.377		0.255	16815	623	EV
13	5.536		0.255	16769	387	EB
14	7.873		0.173	11368	340	BV
15	9.072		0.066	4345	114	VB
16	11.165		0.008	538	24	BB
17	11.961		0.087	5708	97	BV
18	14.223		0.028	1819	50	VB
19	15.883		0.010	662	12	BB
20	18.614		0.255	16759	272	BB
21	21.828	MIREX (STD.	5.653	372115	4977	BV
22	25.403	DBC (SURR. STD)	31.152	205073900/	18402	VB
TOTALS			100.000	6582961		

8.2

410% rec.



~~160~~
MLK

759902

FIELD BLANK

CONFIRMATORY

RUN # 166
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 8

SEP/14/87 21:49:03

HP5890
SPB608

AREA%

RT	AREA	TYPE	AR/HT	AREA%
3.36	683020	BB	0.112	25.163
11.74	27199	PB	0.054	1.002
21.11	202920	PB	0.100	7.476
22.74	442460	PB	0.063	16.301
29.15	45394	BB	0.148	1.672
29.66	987520	PB	0.068	36.381
32.34	325840	BB	0.077	12.004

TOTAL AREA= 2714400
MUL FACTOR= 1.0000E+00

RAW DATA TRANSMITTED | FILE: RM4024::-27
CARD-PTS TRANSMITTED | FILE: CP4067::-27

Gonzalez
9/17/87

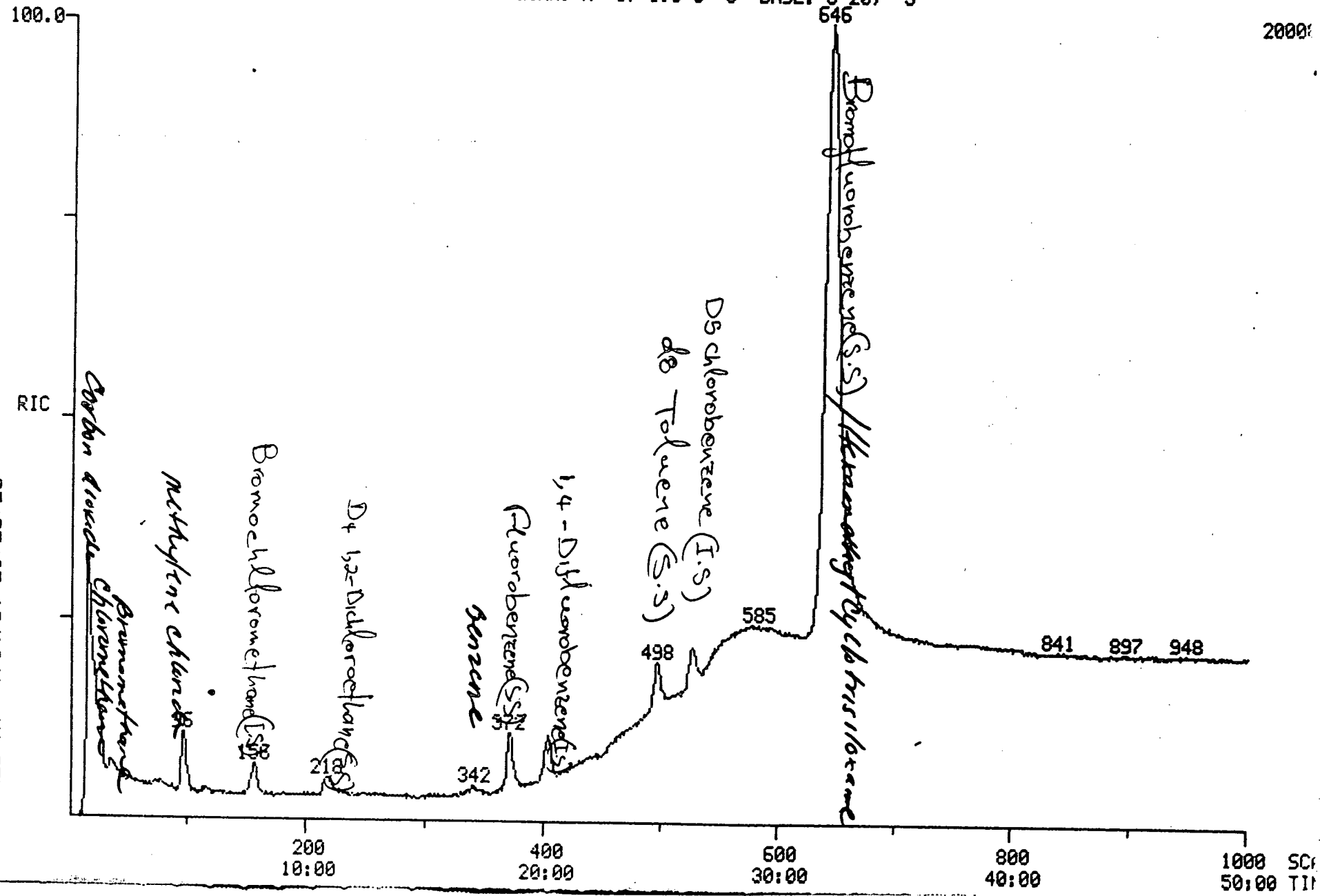
577

III. 2. Reporting Package For
DEC I.D.# Trip blank

RIC
08/27/87 2:46:00
SAMPLE: 3MLS # TRIP BLANK
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU7421 #1
CALI: PU7421 #2

SCANS 1 TO 1000



TCA FINISHED, 6 FOUND
FINISHED AT: 9/04/87 10:18:15

579

QUANTITATION REPORT FILE: PU7421

DATA: PU7421.TI
07/27/87 2:46:00
SAMPLE: 3ML5 # TRIP BLANK 759900
CONDS.: FIELD
SUBMITTED BY: NJDEP ANALYST: SS

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

NO	NAME
0	BROMOCHRLOROMETHANE (INT. STD.)
1	1,2-DICHLOROETHANE D4 (SURR. STD)
2	CHLOROMETHANE
3	BROMOMETHANE
4	VINYL CHLORIDE
5	CHLOROETHANE
6	METHYLENE CHLORIDE (C)
7	ACETONE
8	CARBON DISULPHIDE
9	1,1-DICHLOROETHENE (B)
10	1,1-DICHLOROETHANE(E)
11	TRANS -1,2-DICHLOROETHENE (D)
12	CHLOROFORM
13	1,2-DICHLOROETHANE(H)
14	TRICHLOROFLUOROMETHANE
15	DICHLOROFLUOROMETHANE
16	ACROLEIN
17	ACRYLONITRILE
18	1,4-DIFLUOROBENZENE(INT. STD)
19	2-BUTANONE (MEK)
20	1,1,1-TRICHLOROETHANE (I)
21	CARBON TETRACHLORIDE(J)
22	VINYL ACETATE
23	BROMODICHLOROMETHANE(L)
24	1,2-DICHLOROPROPANE(X)
25	TRANS 1,3-DICHLOROPROPENE (AA)
26	TRICHLOROETHENE(K)
27	DIBROMOCHLOROMETHANE(O)
28	1,1,2-TRICHROETHANE(M)
29	BENZENE(BEN)
30	CIS-1,3-DICHLOROPROPENE(Z)
31	2-CHLOROETHYLVINYLETHER(NN)
32	BROMOFORM(P)
33	CHLOROBENZENE-D5 (INT. STD)
34	2-HEXANONE(MBK)
35	4-METHYL-2-PENTANONE(MIBK)
36	TETRACHLOROETHENE(N)
37	ETHANE, 1,1,2,2-TETRACHLORO-
38	TOLUENE(TOL)
39	CHLOROBENZENE(Q)
40	ETHYLBENZENE(EB)
41	STYRENE
42	META-XYLENE
43	ORTHO/PARA-XYLENE
44	META-DICHLOROBENZENE(MDCB)
45	ORTHO-DICHLOROBENZENE (ODCB)
46	PARA-DICHLOROBENZENE(PDCB)
47	FLUOROBENZENE (SURR. STD)
48	BROMOFLUORBENZENE(SURR. STD)

NO	M/Z	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	156	7:48	1	1.000	A BB	67511.	30.000 UG/L	1.49
2	65	218	10:54	1	1.397	A BB	89550.	29.084 UG/L	1.45
3	50	26	1:18	1	0.167	A BB	545328.	61.261 UG/L	102 3.05
4	94	42	2:06	1	0.269	A BB	4811.	6.566 UG/L	11 0.33
5	62	46	2:18	1	0.295	A BB	894.	0.390 UG/L	0.02
6	64	62	3:06	1	0.397	A*BB	1690.	0.544 UG/L	0.03
7	84	96	4:48	1	0.615	A BB	93152.	21.928 UG/L	3661 1.09
~~8~~	~~49~~	~~101~~	~~5:03~~	~~1~~	~~0.647~~	~~A*BB~~	~~62740.~~	~~9.610 UG/L~~	~~0.48~~
~~9~~	~~76~~	~~90~~	~~4:30~~	~~1~~	~~0.577~~	~~A*VB~~	~~2193.~~	~~3.064 UG/L~~	~~0.15~~
10	96	150	7:30	1	0.962	A*BB	2167.	0.479 UG/L	0.02
11	63	174	8:42	1	1.115	A BB	5307.	~~0.736 UG/L~~ 12	~~0.04~~
12	96	193	9:39	1	1.237	A BB	1401.	0.317 UG/L	0.02
13	83	204	10:12	1	1.308	A*VB	1647.	0.224 UG/L	0.01
14	62	222	11:06	1	1.423	A*BB	5374.	~~0.682 UG/L~~ 11	~~0.03~~
15	101	134	6:42	1	0.859	A*BB	2474.	0.317 UG/L	0.02
~~16~~	~~NOT FOUND~~								
~~17~~	~~56~~	~~148~~	~~7:24~~	~~1~~	~~0.949~~	~~A*BV~~	~~3138.~~	~~218.725 UG/L~~	~~10.90~~
~~18~~	~~53~~	~~152~~	~~7:36~~	~~1~~	~~0.974~~	~~A*BB~~	~~1295.~~	~~108.970 UG/L~~	~~5.43~~
19	114	404	20:12	19	1.000	A BV	309154.	30.000 UG/L	1.49

MF -002

20	43	155	7:45	19	0.384	A*BB	18920.	234.829	UG/L	11.70
21	97	229	11:27	19	0.567	A BB	810.	0.414	UG/L	0.02
22	NOT	FOUND								
23	43	262	13:06	19	0.649	A*BB	25680.	696.790	UG/L	34.72
24	83	272	13:36	19	0.673	A BV	3173.	1.103	UG/L	0.05
25	63	292	14:36	19	0.723	A*BV	2625.	0.525	UG/L	0.03
26	NOT	FOUND								
27	NOT	FOUND								
28	NOT	FOUND								
29	97	301	15:03	19	0.745	A*BB	3966.	1.045	UG/L	0.05
30	NOT	FOUND								
31	75	327	16:21	19	0.809	A BV	2014.	1.111	UG/L	0.06
32	63	343	17:09	19	0.849	A BB	3746.	0.538	UG/L	0.03
33	NOT	FOUND								
34	117	528	26:24	34	1.000	A BB	188826.	30.000	UG/L	1.49
35	43	351	17:33	34	0.665	A BB	36196.	237.808	UG/L	11.85
36	43	365	18:15	34	0.691	A*BB	40076.	132.861	UG/L	6.62
37	164	466	23:18	34	0.883	A*BB	1470.	0.444	UG/L	0.02
38	83	467	23:21	34	0.884	A*BB	2708.	0.648	UG/L	0.03
39	92	493	24:39	34	0.934	A BB	1690.	0.293	UG/L	0.01
40	112	532	26:36	34	1.008	A BB	8001.	0.948	UG/L	0.05
41	106	576	28:48	34	1.091	A BB	22710.	5.403	UG/L	0.27
42	104	594	29:42	34	1.125	A*VV	7898.	72.275	UG/L	3.60
43	NOT	FOUND								
44	NOT	FOUND								
45	146	801	40:03	34	1.517	A*VV	23465.	3.719	UG/L	0.20
46	146	836	41:48	34	1.583	A BV	4604.	0.705	UG/L	0.04
47	146	836	41:48	34	1.583	A*BV	12968.	1.764	UG/L	0.07
48	96	372	18:36	34	0.705	A BB	340839.	40.310	UG/L	2.01
49	95	642	32:06	34	1.216	A BB	247606.	39.633	UG/L	1.97

Non Targeted Compounds

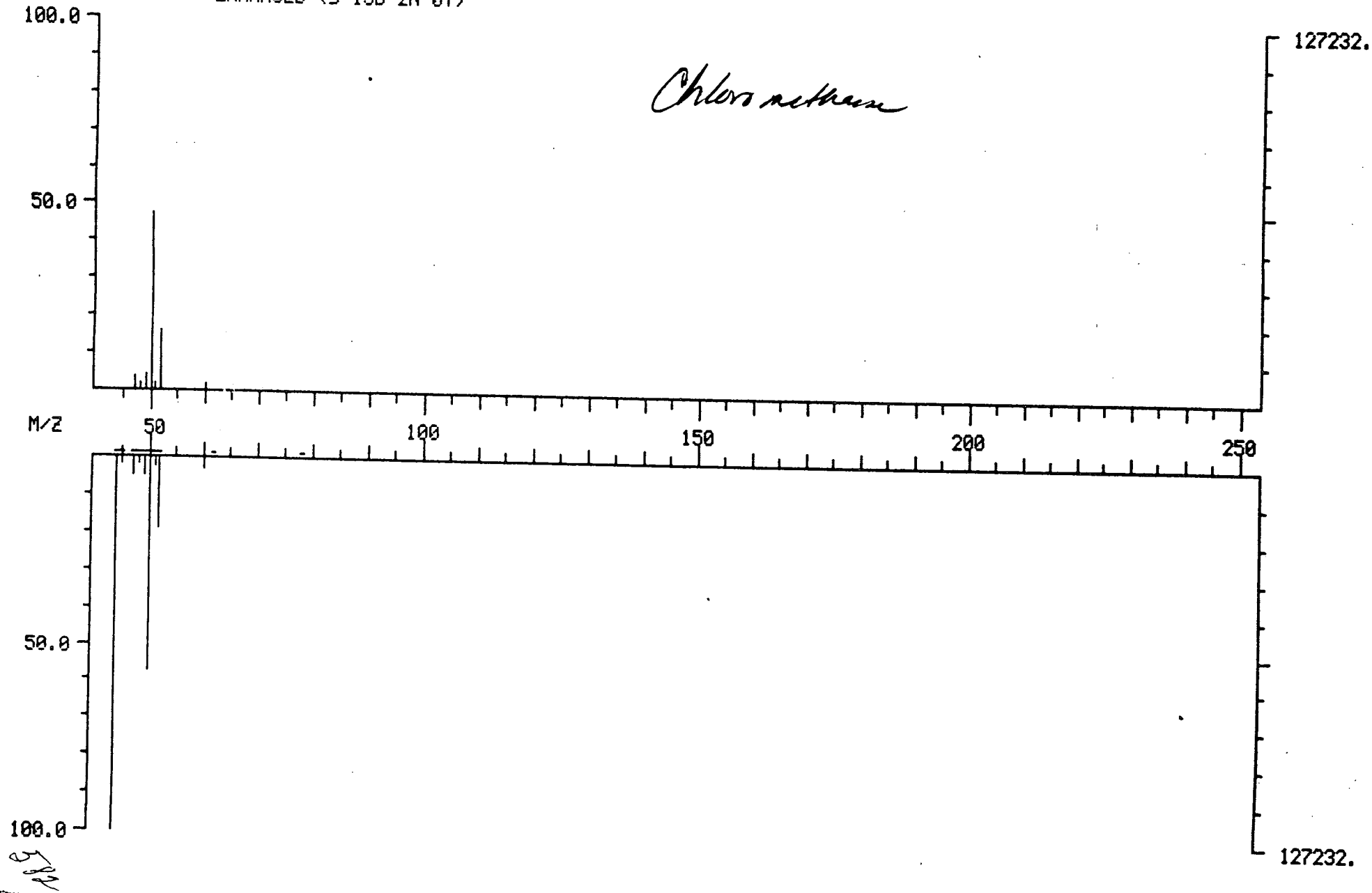
	Scan #	Ref pk.	Area	Amt (ug/L)
1.	15	1	5158730	4305.B
2-	646	34	17532900	10000.B

DUAL MASS SPECTRUM
08/27/87 2:46:00 + 1:18
SAMPLE: 3ML5 # TRIP BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7421 #26
CALI: PU7421 #2

BASE M/Z: 50/ 44
RIC: 96895./ 250367.

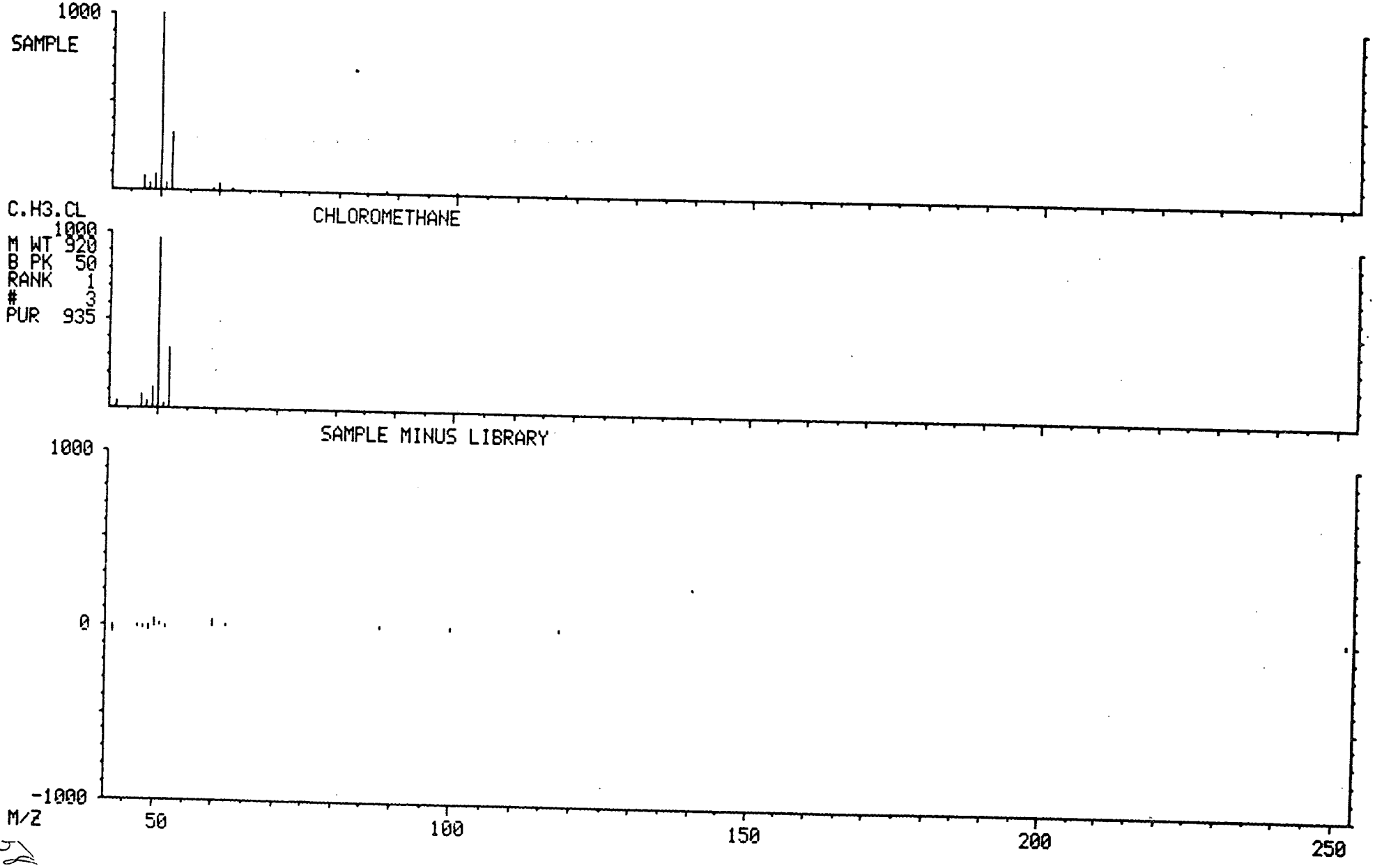
Chloromethane



LIBRARY SEARCH
08/27/87 2:46:00 + 1:18
SAMPLE: 3MLS # TRIP BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7421 # 26
CALI: PU7421 # 2

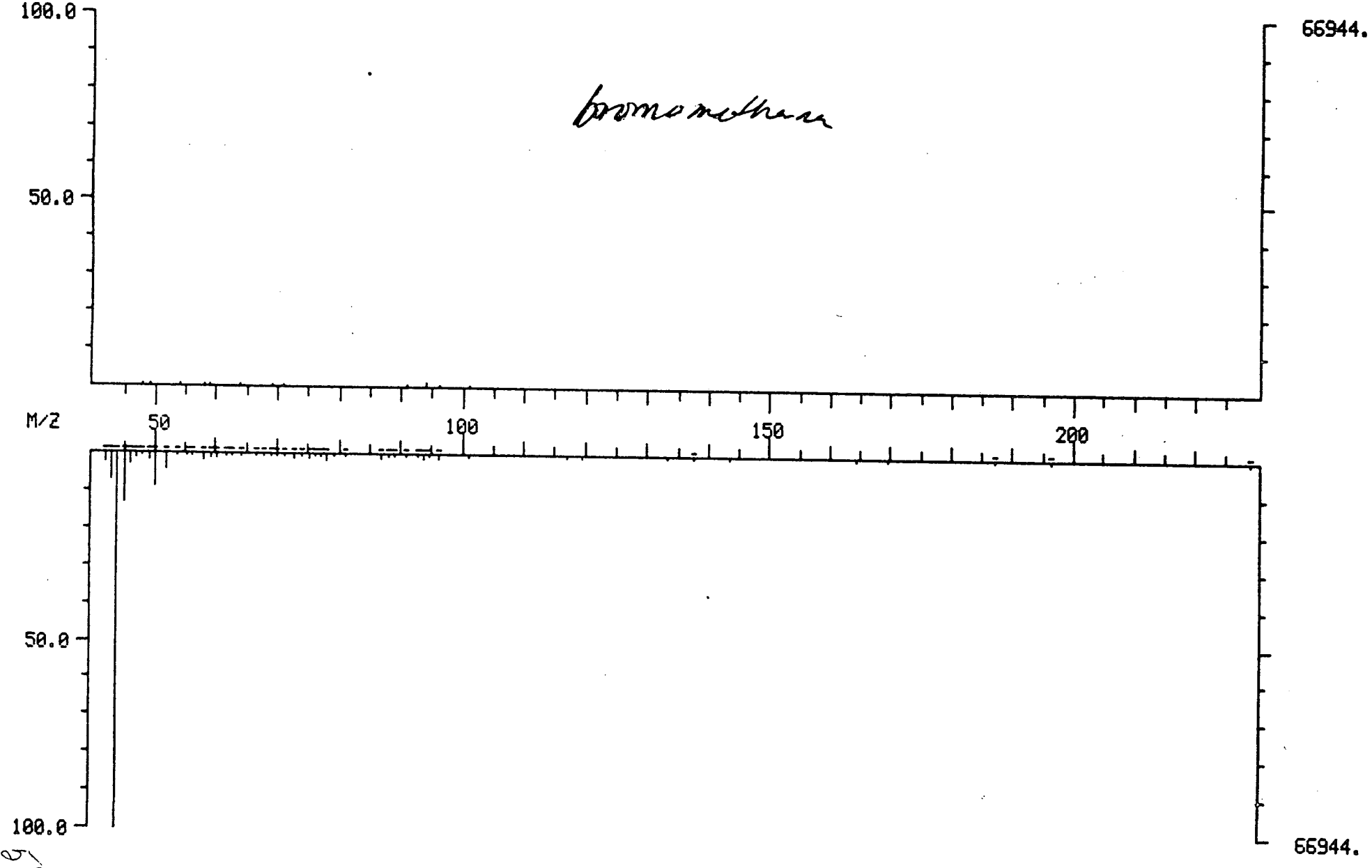
BASE M/Z: 50
RIC: 97023.



DUAL MASS SPECTRUM
08/27/87 2:46:00 + 2:06
SAMPLE: 3MLS # TRIP BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7421 #42
CALI: PU7421 #2

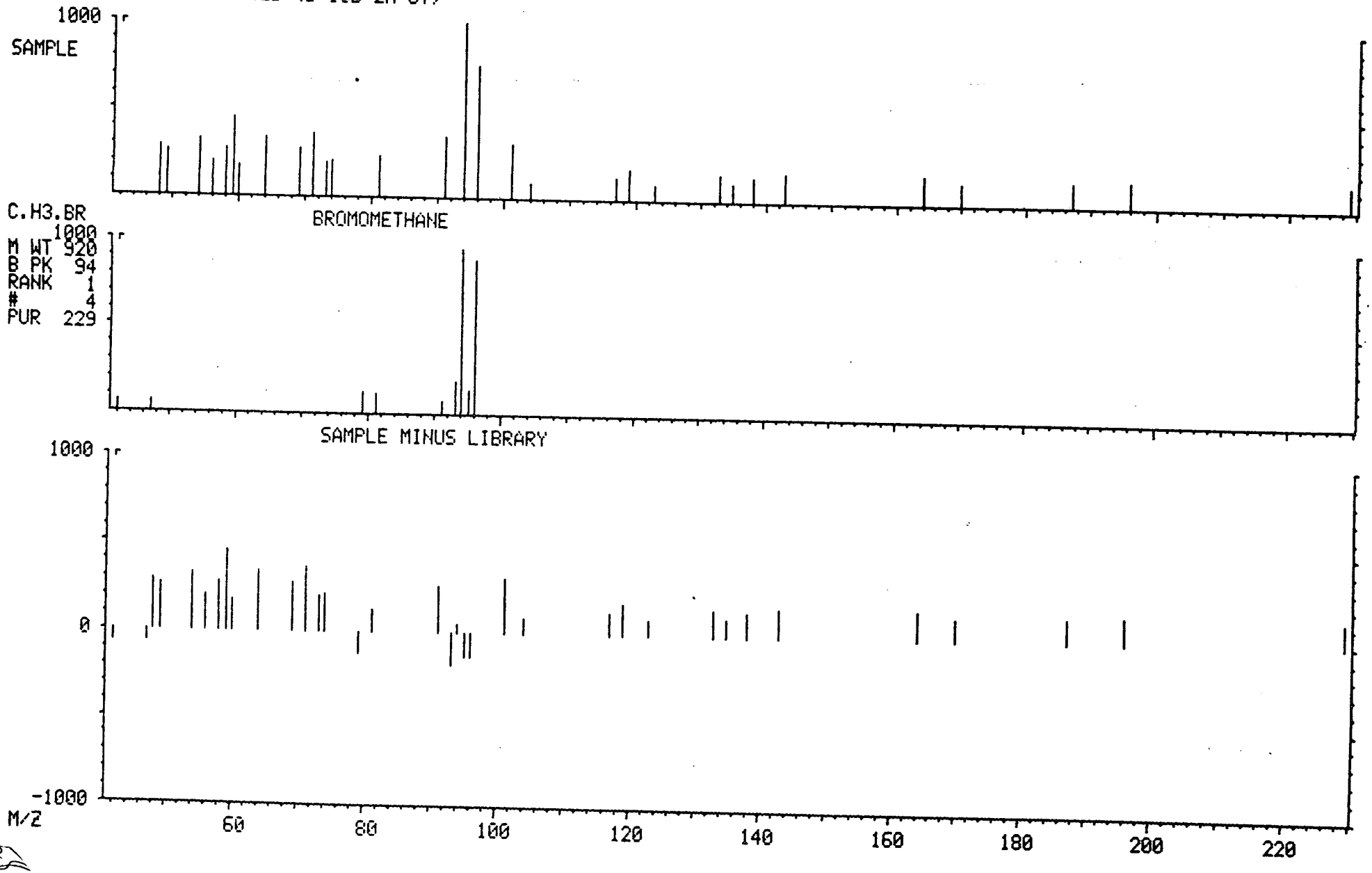
BASE M/Z: 94/ 44
RIC: 6271./ 113791.



LIBRARY SEARCH
08/27/87 2:46:00 + 2:06
SAMPLE: 3MLS # TRIP BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7421 # 42
CALI: PU7421 # 2

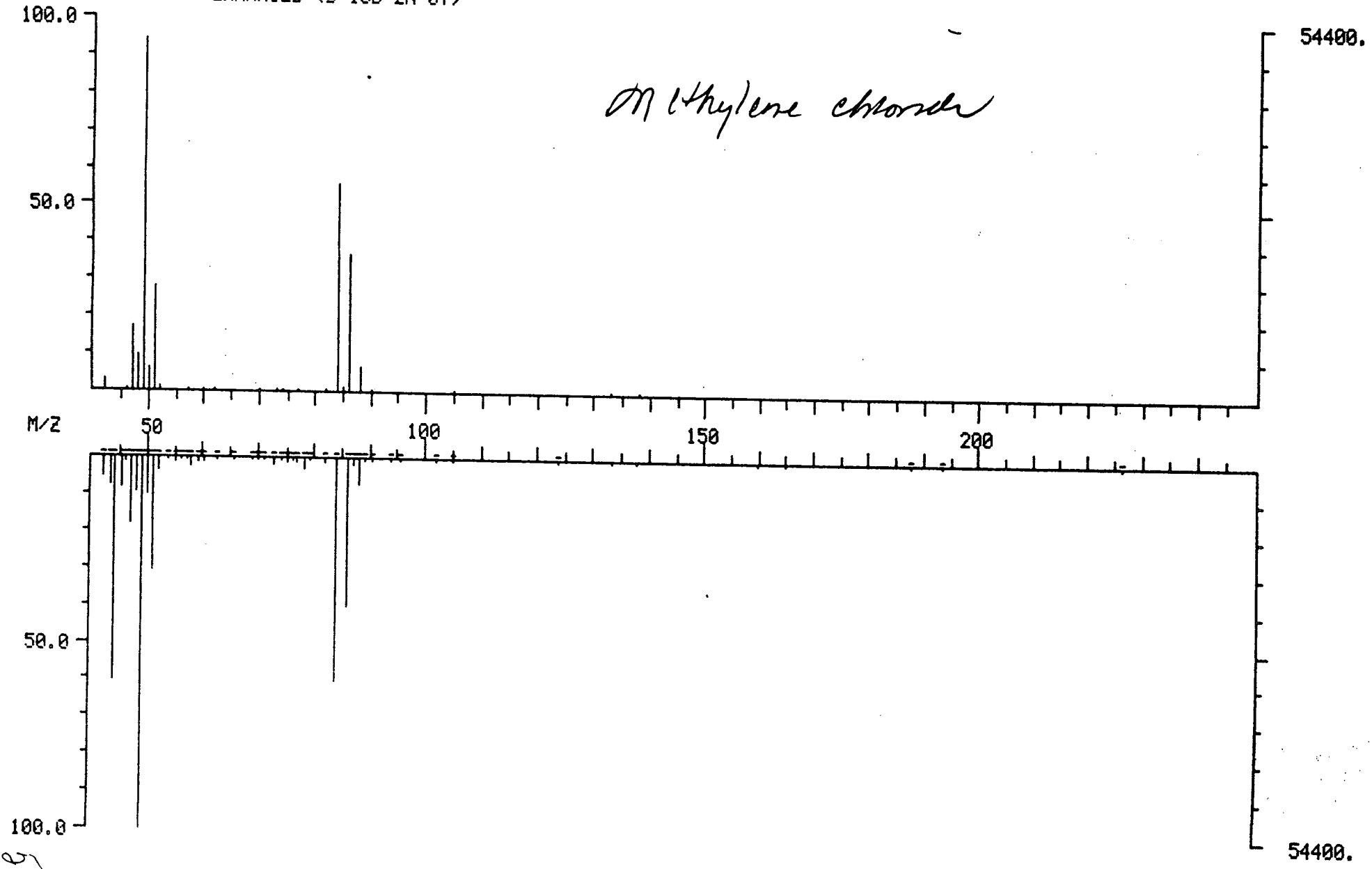
BASE M/Z: 94
RIC: 6031.



DUAL MASS SPECTRUM
08/27/87 2:46:00 + 4:48
SAMPLE: 3MLS # TRIP BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7421 #96
CALI: PU7421 #2

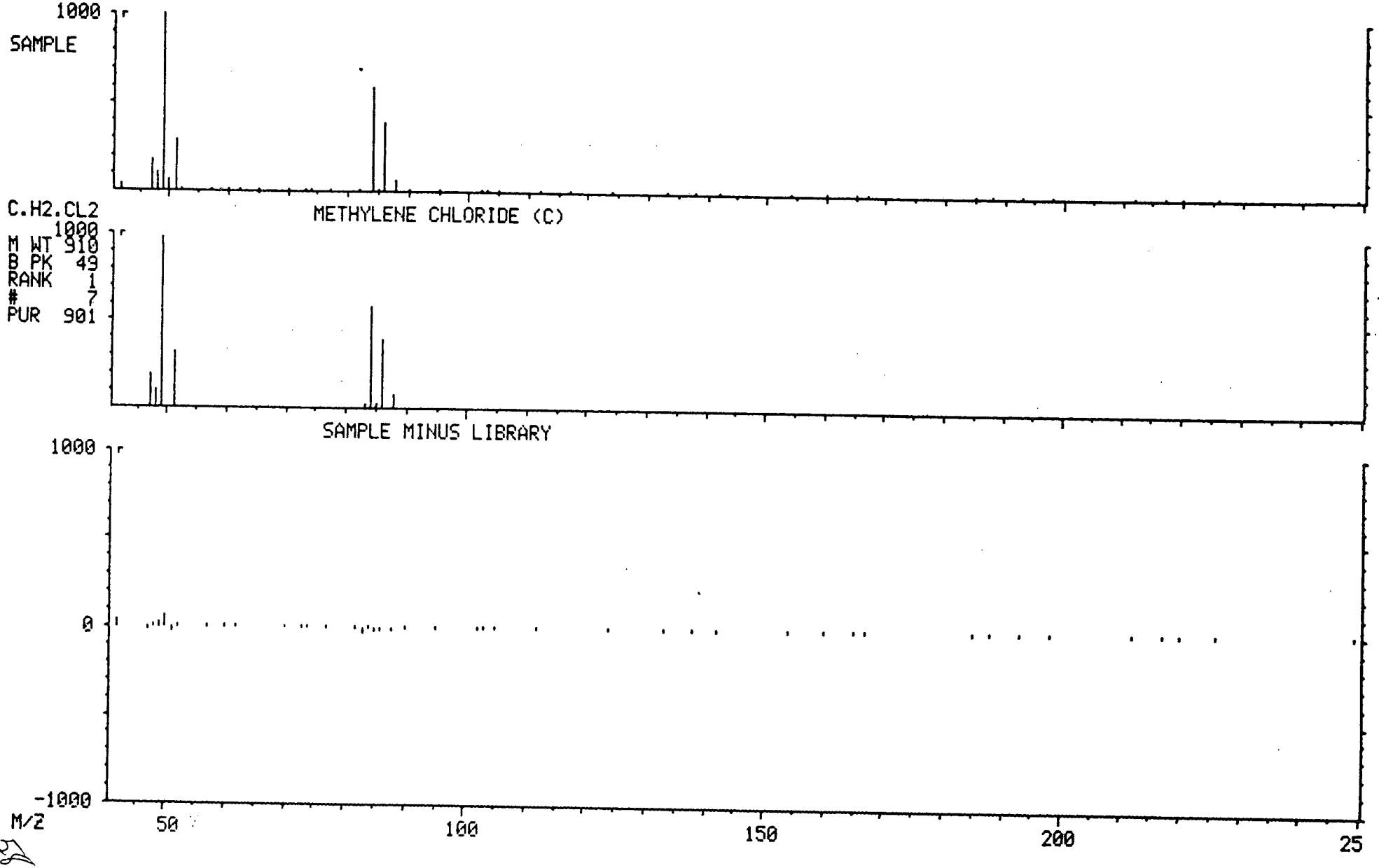
BASE M/Z: 49/ 49
RIC: 144895./ 214783.



LIBRARY SEARCH
08/27/87 2:46:00 + 4:48
SAMPLE: 3MLS # TRIP BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7421 # 96
CALI: PU7421 # 2

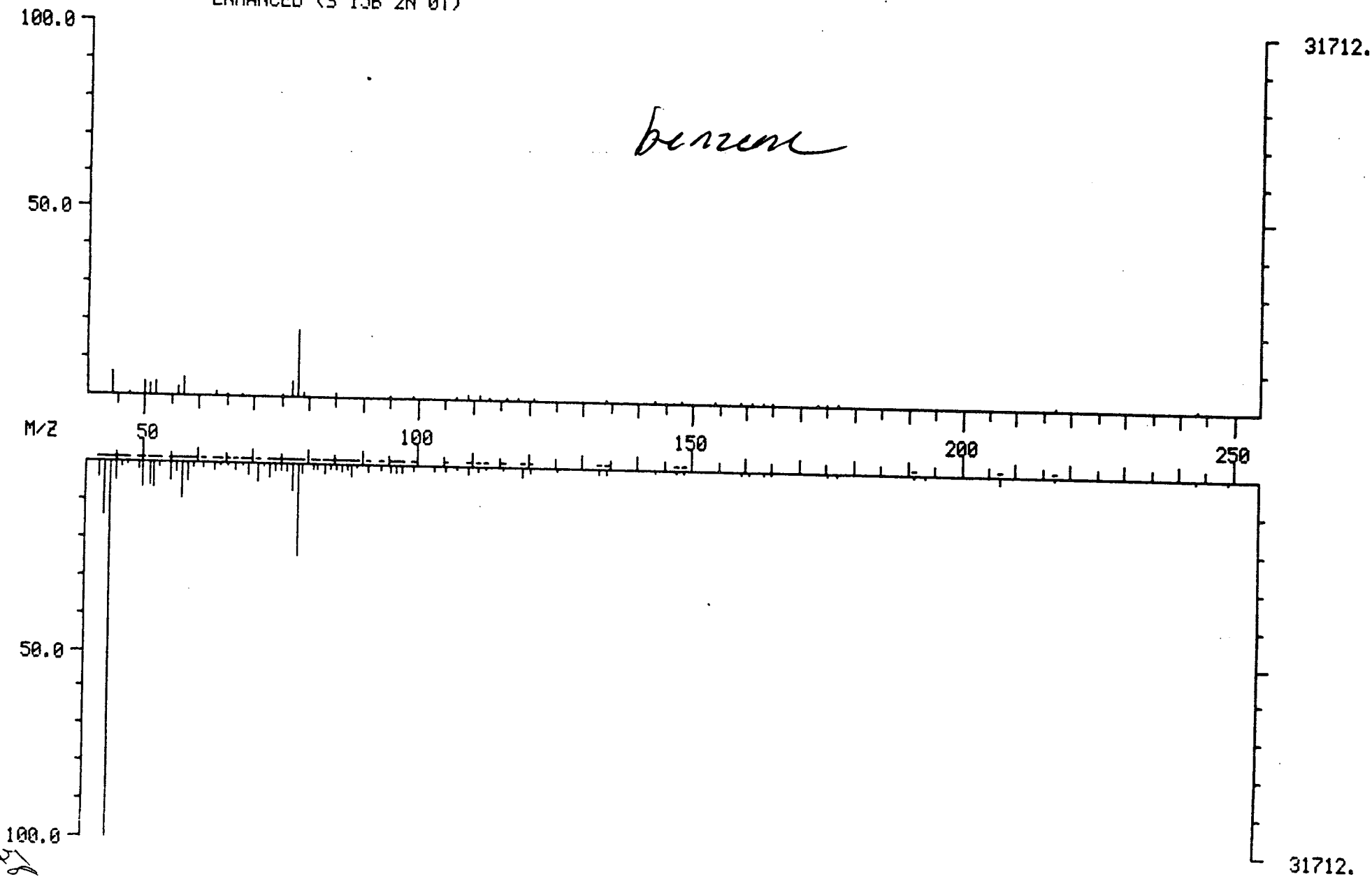
BASE M/Z: 49
RIC: 144639.



DUAL MASS SPECTRUM
08/27/87 2:46:00 + 17:06
SAMPLE: 3MLS # TRIP BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7421 #342
CALI: PU7421 #2

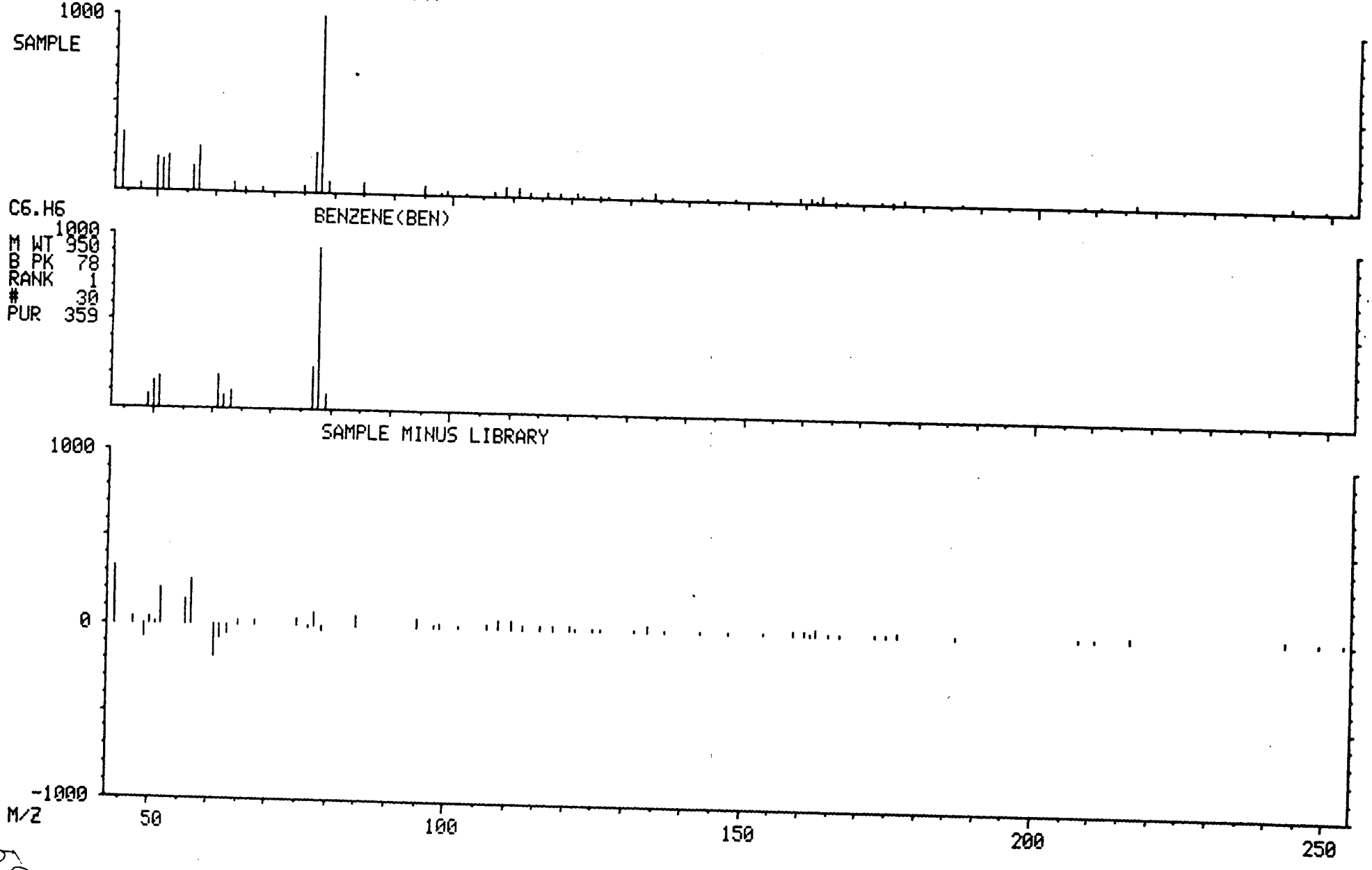
BASE M/Z: 78/ 44
RIC: 20607./ 87167.



LIBRARY SEARCH
08/27/87 2:46:00 + 17:06
SAMPLE: 3MLS # TRIP BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7421 # 342
CALI: PU7421 # 2

BASE M/Z: 78
RIC: 20479.

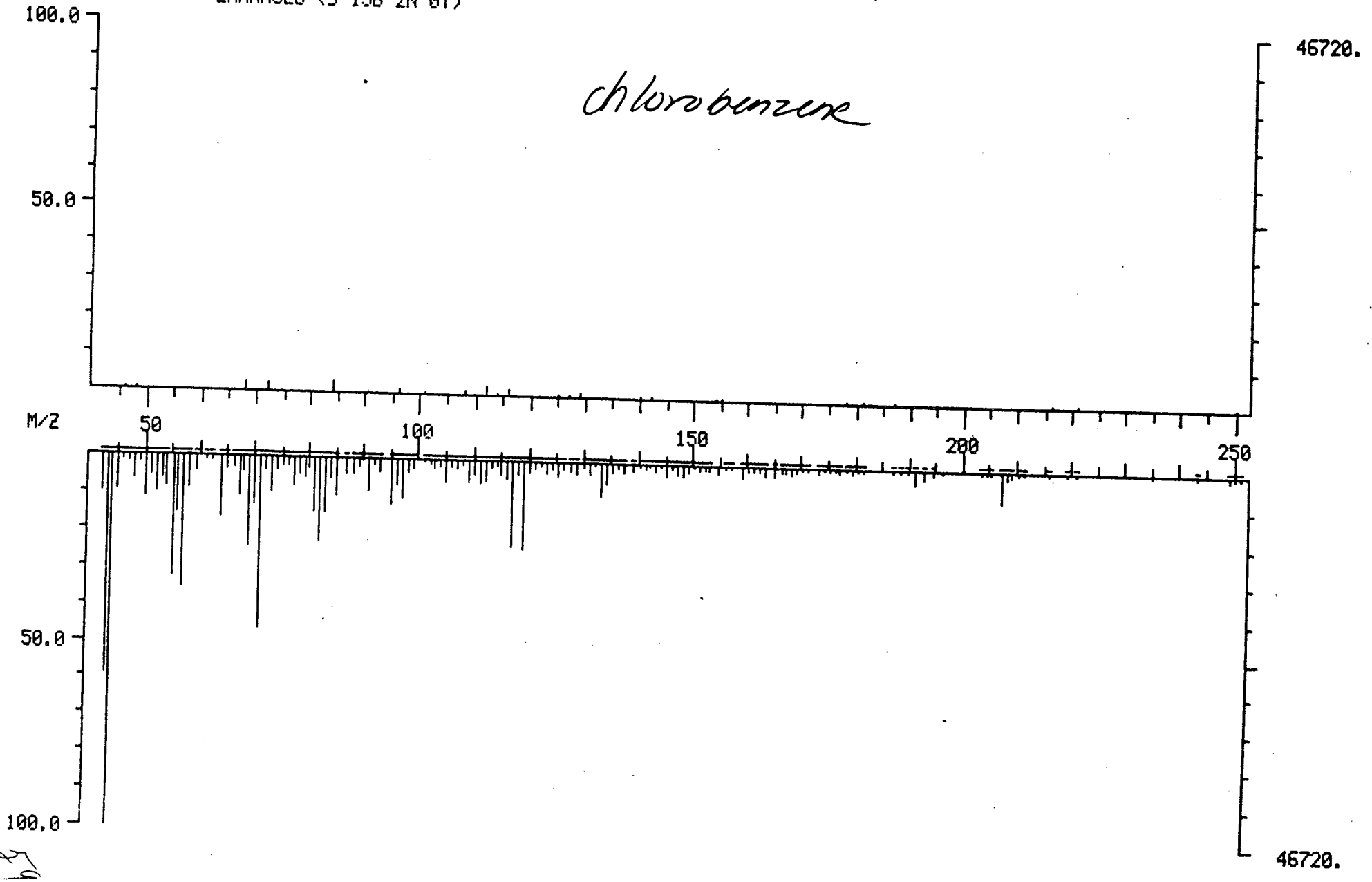


589

DUAL MASS SPECTRUM
08/27/87 2:46:00 + 26:36
SAMPLE: 3MLS # TRIP BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7421 #532
CALI: PU7421 #2

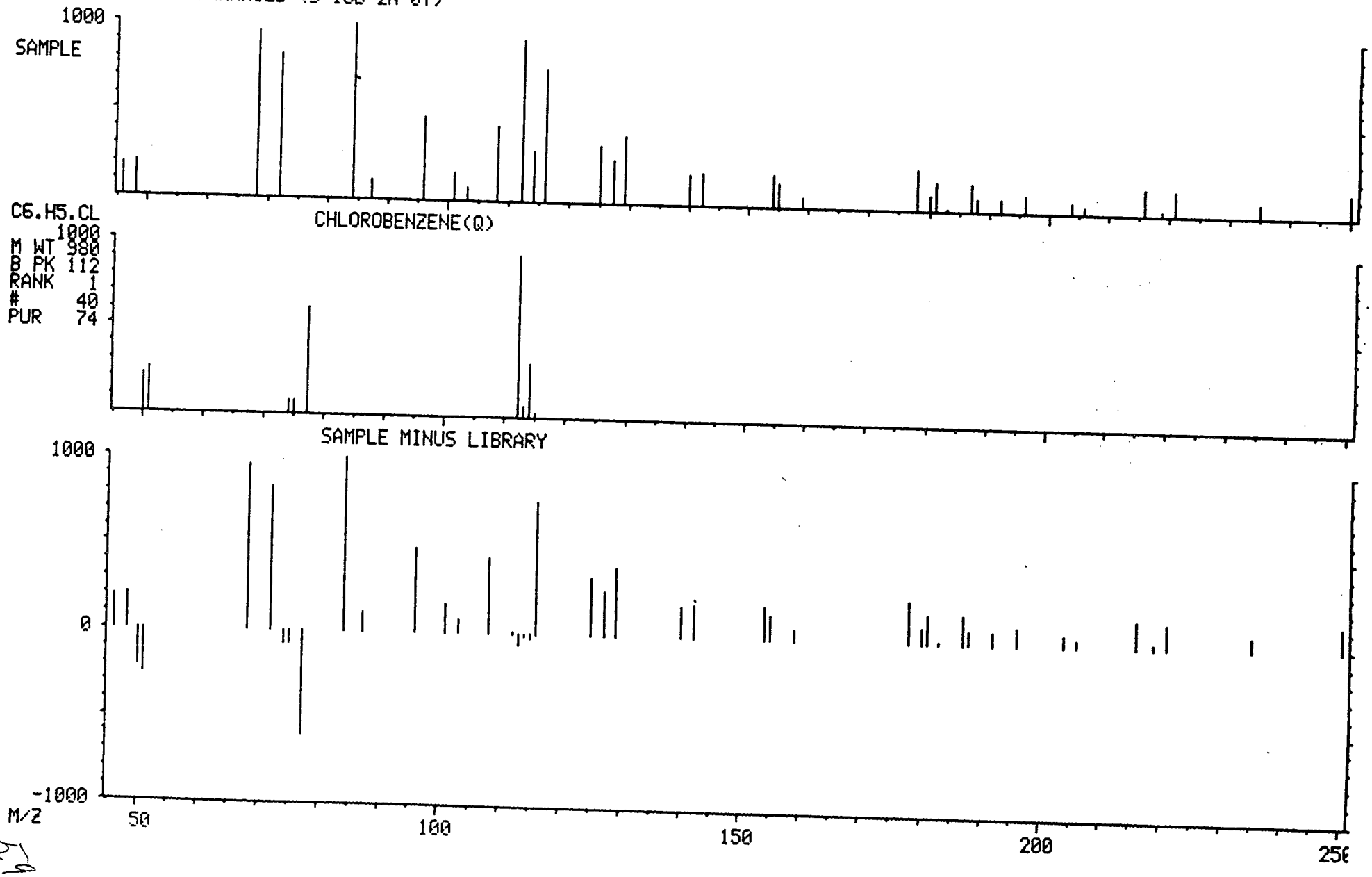
BASE M/Z: 84/ 44
RIC: 12271./ 397311.



LIBRARY SEARCH
08/27/87 2:46:00 + 26:36
SAMPLE: 3MLS # TRIP BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7421 # 532
CALI: PU7421 # 2

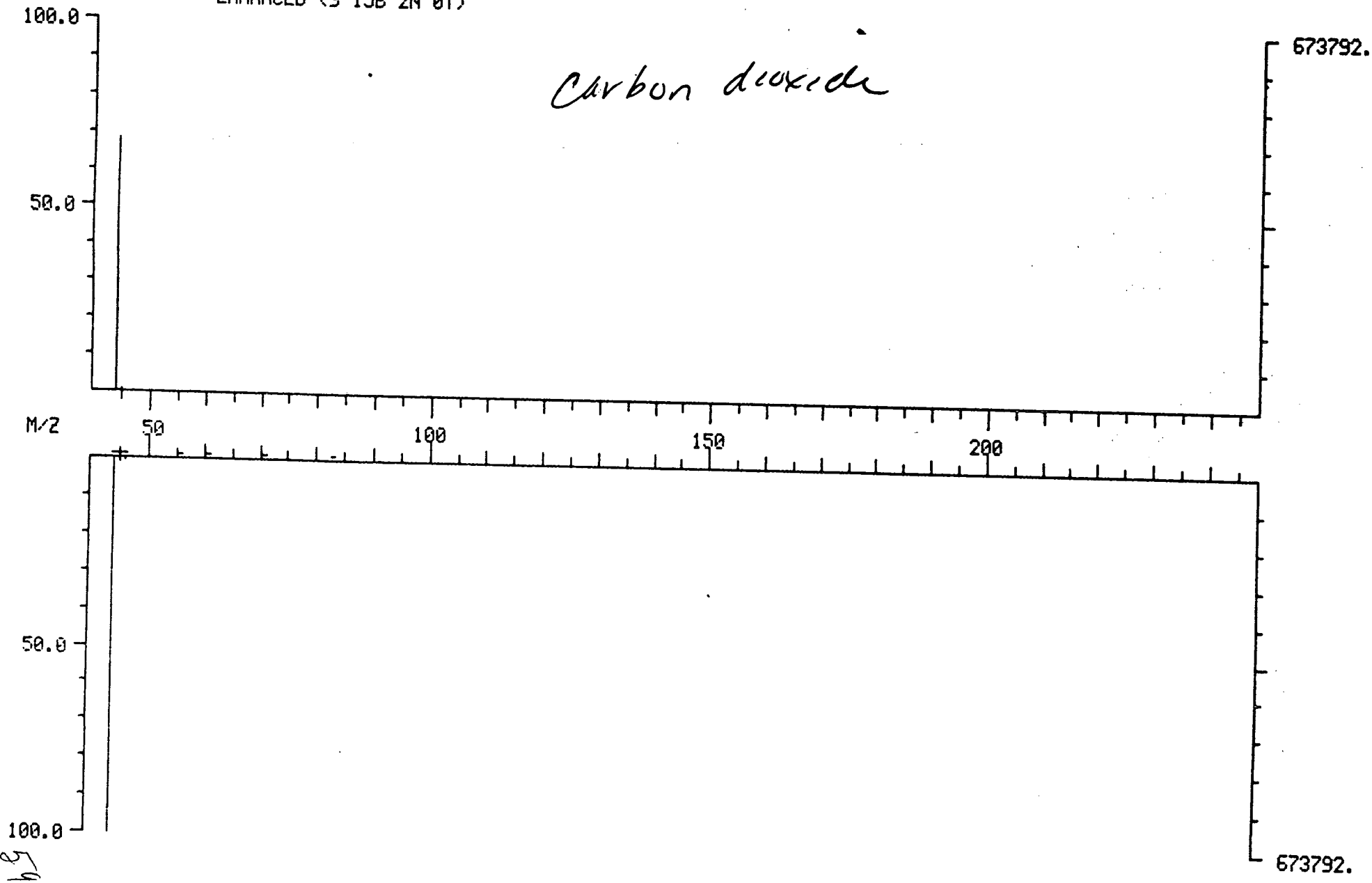
BASE M/Z: 84
RIC: 12271.



DUAL MASS SPECTRUM
08/27/87 2:46:00 + 0:45
SAMPLE: 3MLS # TRIP BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7421 #15
CALI: PU7421 #2

BASE M/Z: 44/ 44
RIC: 467455./ 685055.

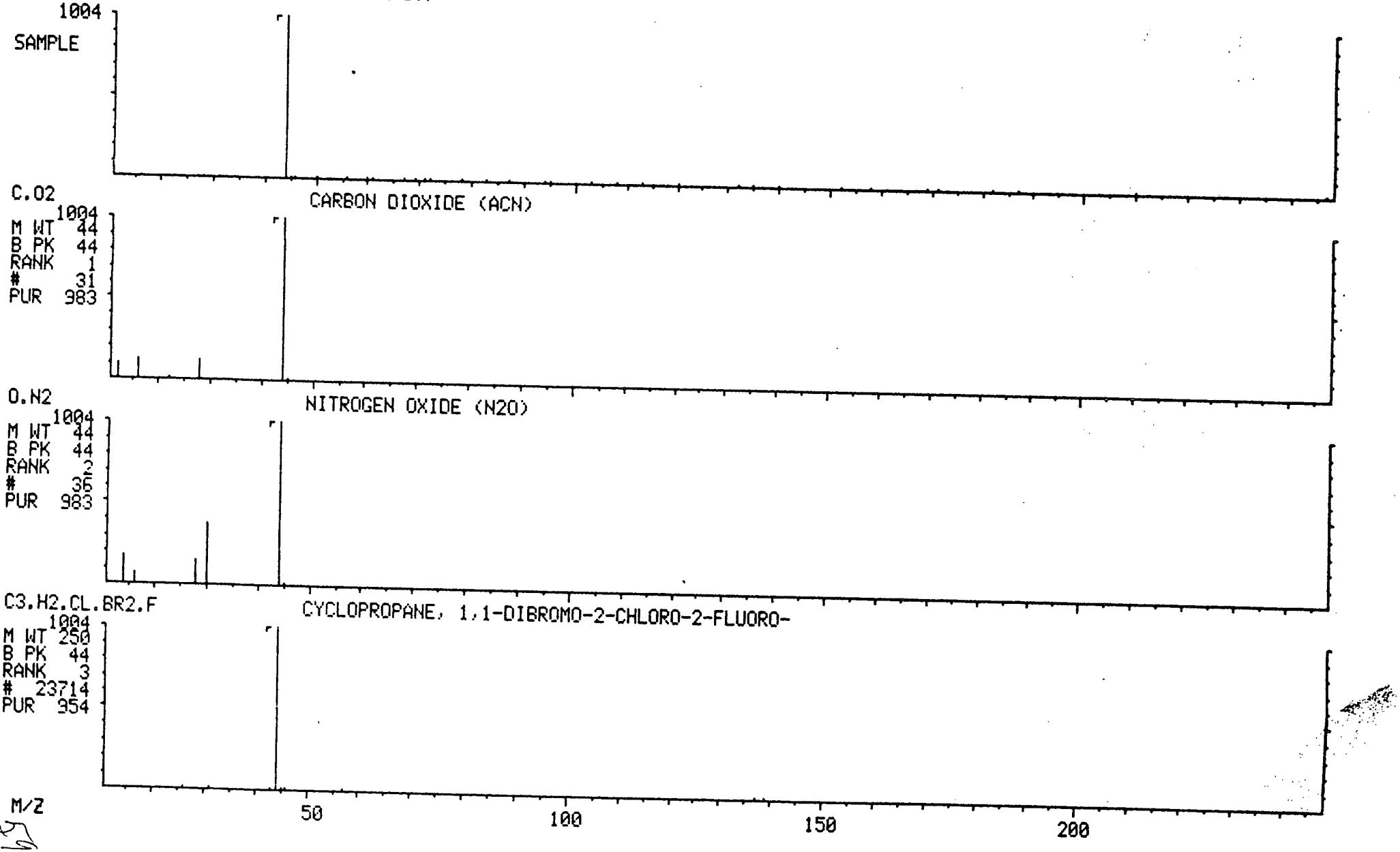


Carbon dioxide

LIBRARY SEARCH
08/27/87 2:46:00 + 0:45
SAMPLE: 3ML5 # TRIP BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7421 # 15
CALI: PU7421 # 2

BASE M/Z: 44
RIC: 466943.

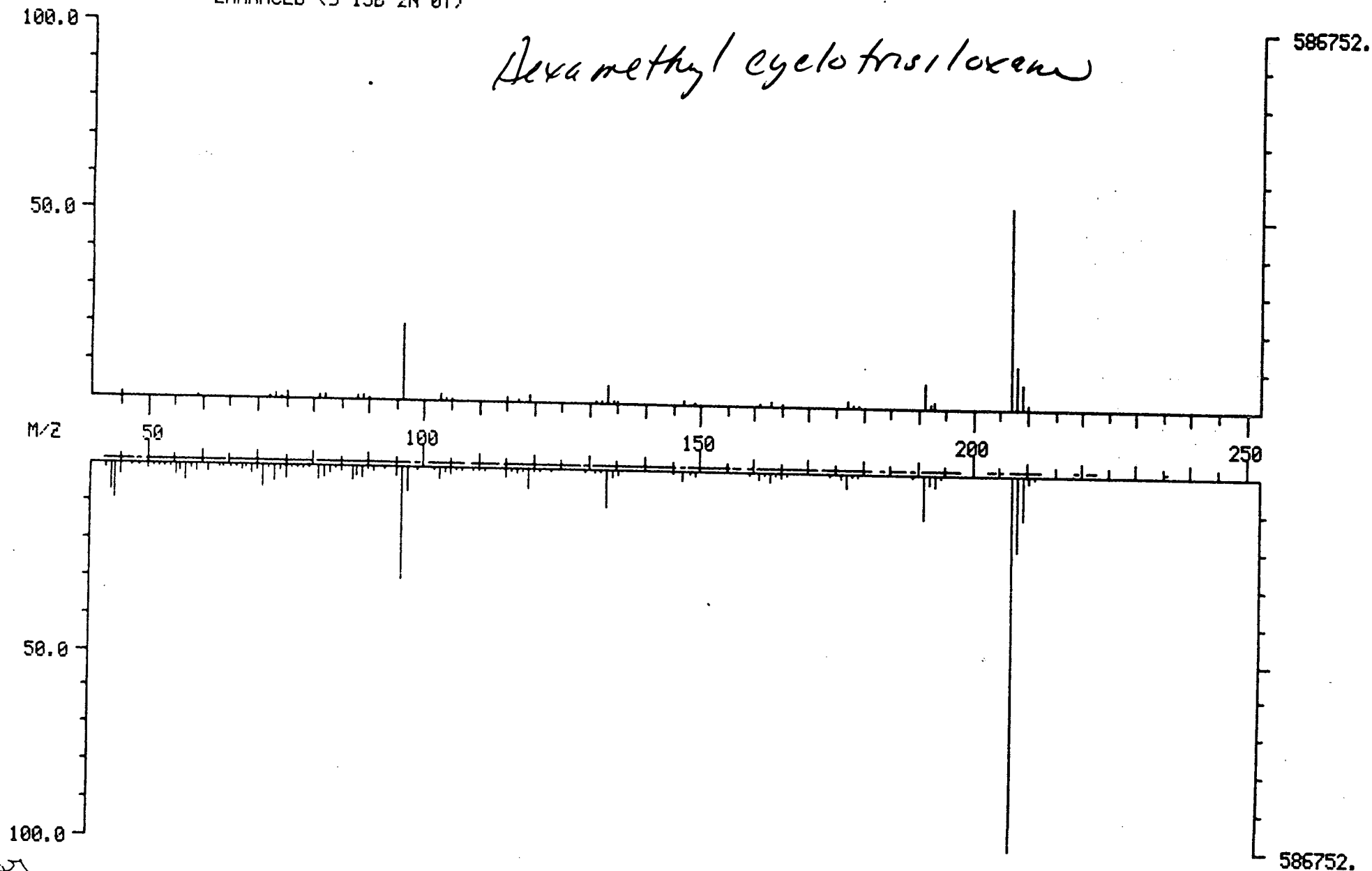


DUAL MASS SPECTRUM
08/27/87 2:46:00 + 32:18
SAMPLE: 3MLS # TRIP BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7421 #646
CALI: PU7421 #2

BASE M/Z: 207/ 207
RIC: 808959./ 1996790.

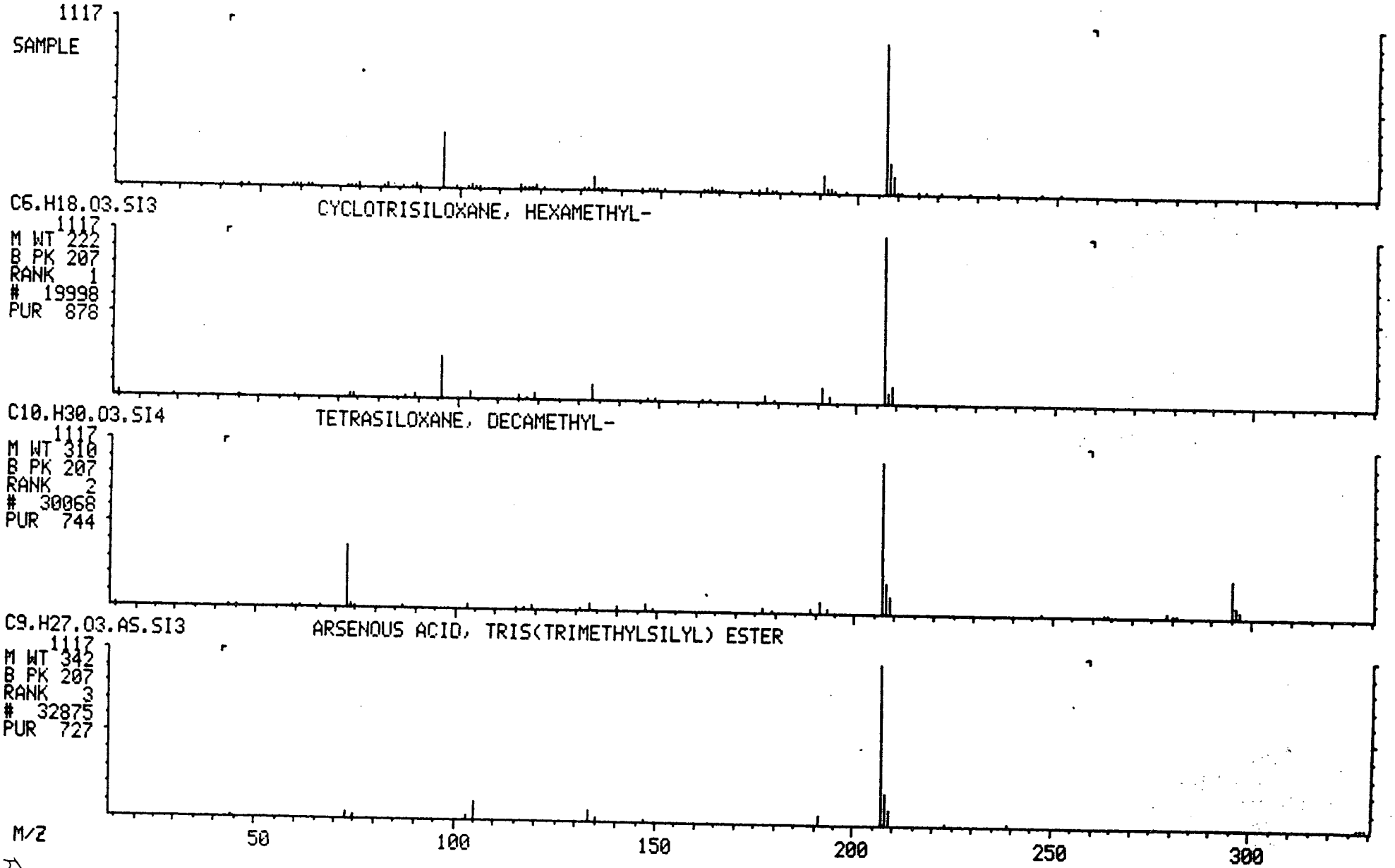
Hexamethyl cyclotrisiloxane



LIBRARY SEARCH
08/27/87 2:46:00 + 32:18
SAMPLE: 3MLS # TRIP BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7421 # 646
CALI: PU7421 # 2

BASE M/Z: 207
RIC: 802815.



H2M

Ni

DATE 9/8/87

ANALYST Janine Lee

Absorbance of 500 Std.- .182

S1-_____; S2-_____; S3-_____

Standards:

	Known Value	Reading
1)	.50	.49
2)	1.00	1.00
3)	5.00	5.01
4)	10.00	9.98
5)	20.00	20.04

Lab No.	Duplicate	RPD	Spike	Spike Reading	% Recovery
759891	.13	0	.40	.52	97
891	.49	2	.40	.78	75

Lab No.	DEC ID N°	DIL. FACTOR	INST. READING	RESULT ug/L*
CALIBRATION BLANK		—	<.04	<40 *
METHOD BLANK		—	<.04	<40 *
CALIBRATION VER. EMSL/KNOWN	TV 2.00	95% REC	1.90	—
759871	SOIL ①	170	.13	22 MG/KG
875	SOIL ②	123	.20	25
879	SOIL ③	122	.13	16
883	SOIL ④	115	.15	17
887	SOIL ⑤	141	.25	35
891	GW #1	—	.48	480 *
895	SW #1	—	<.04	<40 *
899	SW #2	—	<.04	<40 *
903	FIELD BLANK	—	<.04	<40 *
CALIBRATION BLANK		—	<.04	40 *
METHOD BLANK		—	<.04	40 *
CONTINUING EMSL CALIBRATION VERIFICATION	TV 2.00	95% REC	1.89	—
LCS	TV 2.00	100% REC	2.01	—

H2M

Ag

DATE 9/8/87

ANALYST Janine Lee

Absorbance of .50 Std.- .079

S1-_____; S2-_____; S3-_____

Standards:

	Known Value	Reading
1)	.50	.50
2)	1.00	.99
3)	5.00	5.01
4)	10.00	9.98
5)	20.00	19.92

Lab No.	Duplicate	RPD	Spike	Spike Reading	% Recovery
759871	0.12	0	.10	.85	730 "N"
891	<0.01	NC	.10	.11	110

Lab No.	DEC ID N°	Dil. FACTOR	INST. READING	Result ug/L*
CALIBRATION BLANK		—	<.01	<10 *
METHOD BLANK		—	<.01	<10 *
CALIBRATION VER. EMSL/KNOWN	2.00 TV	99% REC	1.98	—
759 871	Soil ①	170	0.12	20.4 mg/L
875	Soil ②	123	0.90	110
879	Soil ③	122	<0.01	<1.4
883	Soil ④	115		<1.4
887	Soil ⑤	141		<1.4
891	GW #1	—		<10 *
895	SW #1	—		
899	SW #2	—		
903	FIELD BLANK	—		<10 *
CALIBRATION BLANK		—	<.01	<10 *
METHOD BLANK		—	<.01	<10 *
CONTINUING CALIBRATION VERIFICATION	TV 2.00	99% REC	1.97	—
LCS	TV 2.00	98% REC	1.95	—

H2M

(Cr)

DATE 9/8/87

Absorbance of 1.00 Std.- .092 ANALYST Janice Lee

S1-_____; S2-_____; S3-_____

Standards:

	Known Value	Reading
1)	.50	.49
2)	1.00	1.01
3)	5.00	5.00
4)	10.00	9.98
5)	20.00	19.97

Lab No.	Duplicate	RPD	Spike	Spike Reading	% Recovery
~~759871~~ 891	.41	2.4	.10	.58	170 "N"
	.87	0	.10	.92	50 "N"

Lab No.	DEC ID No.	DIL. FACTOR	INST. READING	RESULT ug/L*
CALIBRATION BLANK		—	<.01	<10 *
METHOD BLANK		—	<.01	<10 *
CALIBRATION VER. EMSL/KNOWN	TV 2.00	99% REC	1.98	—
759871	Soil ①	170	.42	71 mg/kg
875	Soil ②	123	.28	34
879	Soil ③	122	.14	17
883	Soil ④	115	.50	58
887	Soil ⑤	141	.44	62
891	GW #1	—	.87	870 *
895	SW #1	—	<.01	<10 *
899	SW #2	—	<.01	<10 *
903	FIELD BLANK	—	<.01	<10 *
CALIBRATION BLANK		—	<.01	<10 *
METHOD BLANK		—	<.01	<10 *
CONTINUING CALIBRATION VERIFICATION	TV 2.00	99% REC	1.98	—
LCS	TV 2.00	99% REC	1.97	—

598

H2M

ZN

DATE 9/8/87

ANALYST Jamie Hee

Absorbance of .150 Std.- .137

S1-_____; S2-_____; S3-_____

Standards:

	Known Value	Reading
1)	.50	.50
2)	1.00	1.01
3)	5.00	4.99
4)	10.00	10.02
5)	20.00	20.02

Lab No.	Duplicate	RPD	Spike	Spike Reading	% Recovery
759871	2.87	3.8	.20	3.42	220 "N"
891	93.0	0	.20	—	NC

Lab No.	DEC ID No	Dil. FACTOR	INST. READING	Result ug/L*
CALIBRATION BLANK		—	<.02	<20 *
METHOD BLANK		—	<.02	<20 *
CALIBRATION VER. EMSL/KNOWN	TV 2.00	—	1.99	100% REC
759871	Soil ①	170	2.98	510 MG/KG
875	Soil ②	123	.90	110
879	Soil ③	122	.87	110
883	Soil ④	115	2.05	240
887	Soil ⑤	141	1.88	270
891	GW #1	100	.93	93,000 *
895	SW #1	—	.04	40 *
899	SW #2	—	.03	30 *
903	FIELD BLANK	—	<.02	<20 *
CALIBRATION BLANK		—	<.02	<20 *
METHOD BLANK		—	<.02	<20 *
CONTINUING CALIBRATION VERIFICATION	TV 2.00	98% REC	1.95	—
LCS	TV 2.00	95% REC	1.89	—

H2M

Be

DATE 9/8/87

Absorbance of 500 Std.- .627 ANALYST Janine Hee

S1-_____; S2-_____; S3-_____

Standards:	Known Value	Reading
1)	.005	.005
2)	.050	.049
3)	.100	.090
4)	1.000	1.004
5)	5.000	4.995

Lab No.	Duplicate	RPD	Spike	Spike Reading	% Recovery
759871	.008	0	.05	.052	88
891	.031	3.2	.05	.077	90

Lab No.	DEC ID Nº	D.I. FACTOR	INST. READING	RESULT ug/L*
CALIBRATION BLANK		—	<.005	<5 *
METHOD BLANK		—	<.005	<5 *
CALIBRATION VER. EMSL/KNOWN	TV 2.34	—98%ROC	2.30	—
759871	SOIL ①	170	.008	1.4 mg/kg
875	SOIL ②	123	.009	1.1
879	SOIL ③	122	.008	1.0
883	SOIL ④	115	.006	0.7
887	SOIL ⑤	141	.007	1.0
891	GW#1	—	.032	30 *
895	SW#1	—	<.005	<5 *
899	SW#2	—	↓	↓
✓ 903	FIELD BLANK	—	↓	↓
CALIBRATION BLANK		—	<.005	<5 *
METHOD BLANK		—	<.005	<5 *
CONTINUING CALIBRATION VERIFICATION	TV 2.34	97% CCC	2.27	—
LCS	TV 2.34	98% CCC	2.30	—
				600

H2M

Cd

DATE 9/8/87

ANALYST Janine Hee

Absorbance of 2.00 Std.- .798

S1-_____; S2-_____; S3-_____

Standards:

	Known Value	Reading
1)	.005	.005
2)	.050	.049
3)	.100	.079
4)	1.000	1.002
5)	5.000	4.997

Lab No.	Duplicate	RPD	Spike	Spike Reading	% Recovery
759871	.070	0	.05	.112	86
891	.367	0	.05	.377	20 "N"

Lab No.	DEC ID N°	Dil. FACTOR	(mL/g)	INST. READING	Result ug/L*
CALIBRATION BLANK		—		<.005	<5 *
METHOD BLANK		—		<.005	<5 *
CALIBRATION VER. EMSL/KNOWN	TV 2.00	101% REC		2.020	—
759871	SOIL ①	170	12.0	.069	69 *
875	②	123	7.1	.058	58 *
879	③	122	7.8	.064	64 *
883	④	115	5.1	.044	44 *
887	⑤	141	9.7	.069	69 *
891	GW #1	—		.367	367 *
895	SW #1	—		.015	15 *
899	SW #2	—		<.005	<5 *
903	FIELD BLANK	—		<.005	<5 *
CALIBRATION BLANK		—		<.005	<5 *
METHOD BLANK		—		<.005	<5 *
CONTINUING CALIBRATION VERIFICATION	TV 2.00	103%		2.050	—
LCS	TV 2.00	103%		2.050	—

601

H2M

Cu

DATE 9/2/87

Absorbance of .50 Std.- .061 ANALYST Janine Hee

S1-_____; S2-_____; S3-_____

Standards:

	Known Value	Reading
1)	.50	.49
2)	1.00	1.00
3)	5.00	4.98
4)	10.00	9.99
5)	20.00	20.02

Lab No.	Duplicate	RPD	Spike	Spike Reading	% Recovery
759871	0.80	0	.25	1.10	120
891	3.00	0.6	.25	3.19	76

Lab No.	DEC ID N°	DIL. FACTOR	INST. READING	RESULT ug/L*
CALIBRATION BLANK		—	<.02	<20
METHOD BLANK		—	<.02	<20
CALIBRATION VER. EMSL/KNOWN	TV2.00	99% REC	1.98	—
759871	Soil ①	100 mg/kg	0.80	800
875	Soil ②	89-90	0.72	720
879	Soil ③	130	1.05	1050
883	Soil ④	76-80	0.66	660
887	Soil ⑤	350	2.50	2500
891	GW #1	—	3.02	3020
895	SW #1	—	<.02	<20
899	SW #2	—	<.02	<20
903	Field Blank	—	<.02	<20
CALIBRATION BLANK		—	<.02	<20
METHOD BLANK		—	<.02	<20
CONTINUING EMSL CALIBRATION VERIFICATION		99% REC	1.98	—
LCS		98% REC	1.95	—

602

H2M

Pb

DATE 9/8/87

ANALYST William Britton

Absorbance of _____ Std.- _____

S1- _____; S2- _____; S3- _____

(2)

Standards:

	Known Value	Reading
1)		
2)		
3)		
4)		
5)		

Lab No.	Duplicate	Spike	Spike Reading	% Recovery

Lab No.	DEC ID No	Dil. FACTOR	INST. READING	Result ug/L *
CALIBRATION BLANK			< .10	< 100 *
METHOD BLANK			< .10	< 100 *
CALIBRATION VER. LCS EMSL/KNOWN	I.V. = 1.00	93% rec	.93	930 *
CALIBRATION BLANK				
METHOD BLANK				
CONTINUING CALIBRATION VERIFICATION				

H2M

Pb

DATE 9/8/87

Absorbance of 20.0 Std.- .32 ANALYST William Bittner

S1-_____; S2-_____; S3-_____

(1)

Standards:

	Known Value	Reading
1)	.50	.50
2)	20.00	20.10
3)	1.00	1.06
4)	5.00	4.95
5)	10.00	9.92

Lab No.	Duplicate	RPD	Spike	Spike Reading	% Recovery
759891	2.8	0	.5	3.3	100
871	2.5	0	.5	3.0	100

Lab No.	DEC ID Nº	Dil. FACTOR		INST. READING	Result ug/L*
CALIBRATION BLANK				<.10	<100*
METHOD BLANK				<.10	<100*
LCS CALIBRATION VER. EMSL/KNOWN	TV = 1.0	96% rec		.96	960*
dig LCS	TV = 1.0	95% rec		.95	950*
759891	GW#1 BSA 08197890	—	— MG/KG	2.8	2,800*
871	Soil 1 BSA 08197785	170	430	2.5	2,500*
875	Soil 2 BSA 08197786	123	100	.78	780*
879	Soil 3 BSA 08197787	122	130	1.1	1,100*
883	Soil 4 BSA 08197788	115	220	1.9	1,900*
887	Soil 5 BSA 08197789	141	900	6.4	6,400*
76@288	Soil 2	119	63	.53	530*
292	Soil 3	137	180	1.3	1,300*
296	Soil 4	119	62	.52	520*
CALIBRATION BLANK		—		<.10	<100*
METHOD BLANK		—		<.10	<100*
LCS CONTINUING CALIBRATION VERIFICATION	T.V. = 1.00	95% rec		.95	950*
300	Soil 7	135	73	.54	540*
304	Soil 8	116	51	.44	440*
308	Soil 9	111	110	1.0	1,000*
312	Field blank	—	—	<.10	<100*

Tray No. I Test Pb Pg No. ___ Date 9/8/87

Analyst [signature]

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	Blank				
2	2				
3	6				
4	10				
5	20				
6	40				
7	50				
8	70				
9	cal blank	<5			
10	dig blank	<5			
11	LCS	50.0	100% rec	T.V.=50.0	
12	dig LCS	50.0	100%	T.V.=50.0	
13	759895	14.0	7.4% RPD		SW#1 BSA 08197991
14	dup 895	13.0			.036-.014=.022
15	+20 895	22.0	110% rec		
16	899	5.0	RPD NC		SW#2 BSA 08197992
17	dup 899	<5.0			
18	+20 899	22.0	110% rec		.027-.005=.022
19	903	<5	RPD NC		Field blank
20	dup 903	<5			.0
21	+20 903	23	115% rec		.025-.002=.023
22	cal blank	<5			
23	dig blank	<5			
24	759937	34.0	2	6% RPD	MW-2 dig .017x2=.034
25	dup 937	32.0	2		.016x2=.032
26	+20 937	22.0	2	110% rec	.039-.017=.022
27	937	32.0	2	0% RPD	MW-2 dig .016x2=.032
28	dup 937	32.0	2		.016=.032
29	+20 937	23.0	2	115% rec	.039-.016=.023
30	+20 937	22.0	2 110% rec	digested	.038-.016=.022

605

Tray No. II Test Pb Pg No. — Date 9/8/87

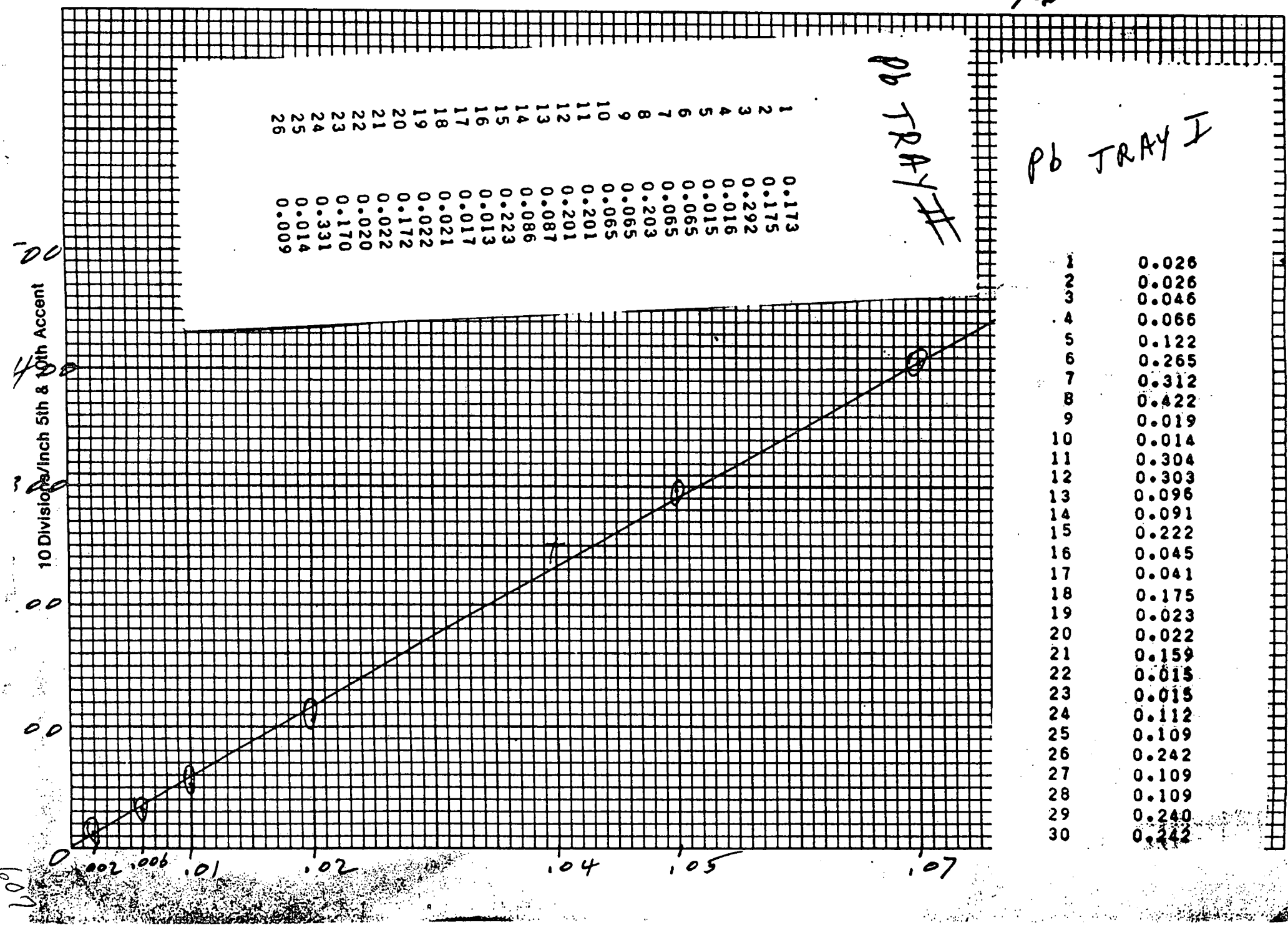
Analyst William Bitter

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	759 938	27.5	RPDNC		MW-3C .0275
2	dup 938	27.5			.0275
3	+20 938	20.5	103% rec		.048-.0275=.0205
4	cal blank	<5			
5	dig blank	<5			
6	939	9.0	RPD 0%		MW-2 EPTX .009
7	dup 939	9.0			.009
8	+20 939	23.0	115% rec		.032-.009=.023
9	939	9.0	0% RPD		MW-2 EPTX
10	dup 939	9.0			
11	+20 939	22.5	113% rec		.0315-.009=.0225
12	+20 939	22.5	113% rec	digested	
13	940	12.5	RPDNC		MW-3C
14	dup 940	12.5			
15	+20 940	23.0	115% rec		.0355-.0125=.023
16	cal blank	<5			
17	dig blank	<5			
18	941	<5	RPDNC		Field blank
19	dup 941	<5			
20	+20 941	25.5	127.5% rec		.0265-.001=.0255
21	942	<5	RPDNC		Trip blank
22	dup 942	<5			
23	+20 942	25.5	127.5% rec		.0265-.001=.0255
24	LCS	54.0	108% rec	T.V.=50.0	
25	cal blank	<5			
26	dig blank	<5			
27					
28					
29					
30					

606

Pb

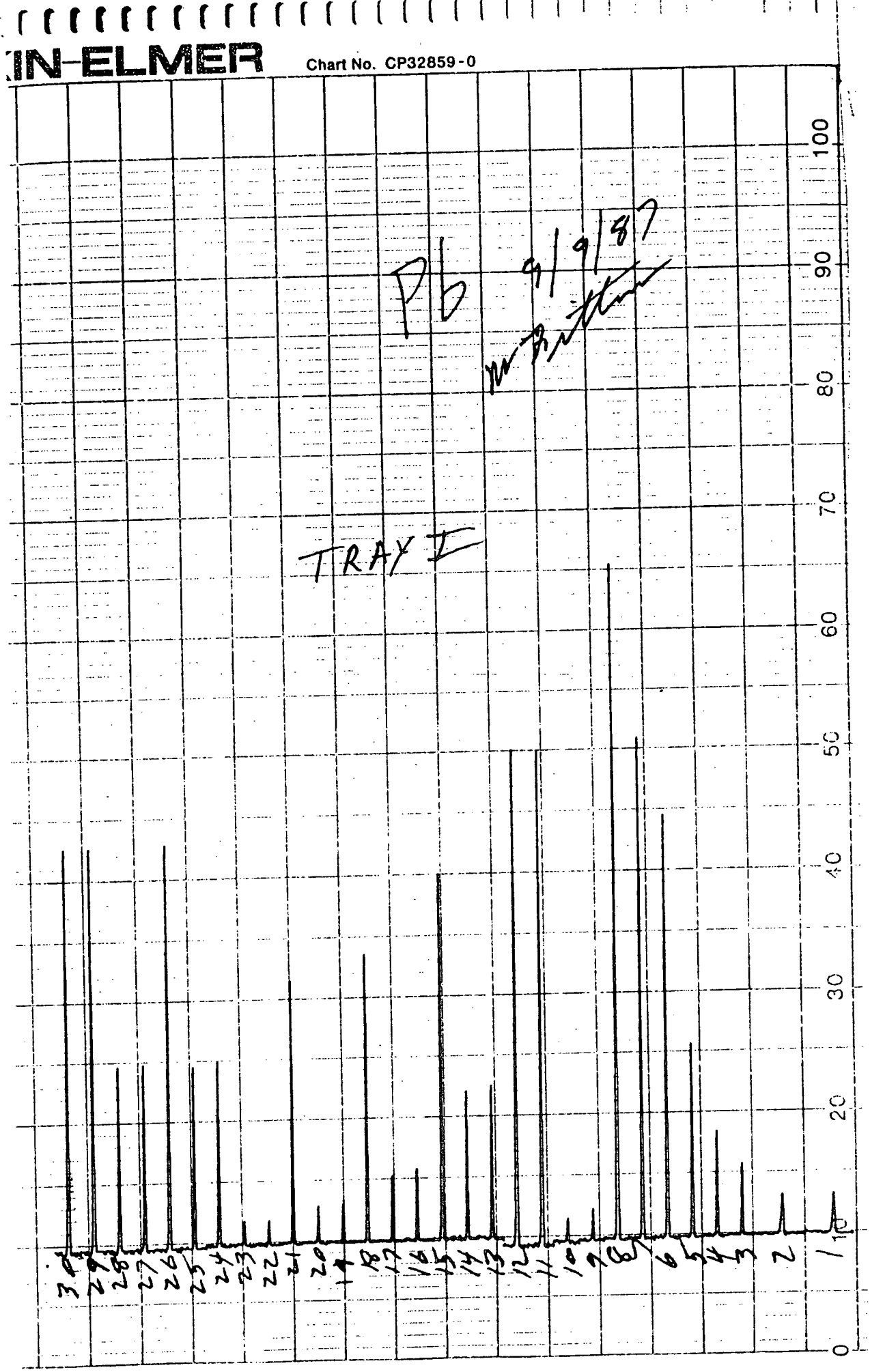
9/9/87
William Britton



Pb TRAY I

1	0.026
2	0.026
3	0.046
4	0.066
5	0.122
6	0.265
7	0.312
8	0.422
9	0.019
10	0.014
11	0.304
12	0.303
13	0.096
14	0.091
15	0.222
16	0.045
17	0.041
18	0.175
19	0.023
20	0.022
21	0.159
22	0.015
23	0.015
24	0.112
25	0.109
26	0.242
27	0.109
28	0.109
29	0.240
30	0.242

IN-ELMER Chart No. CP32859-0

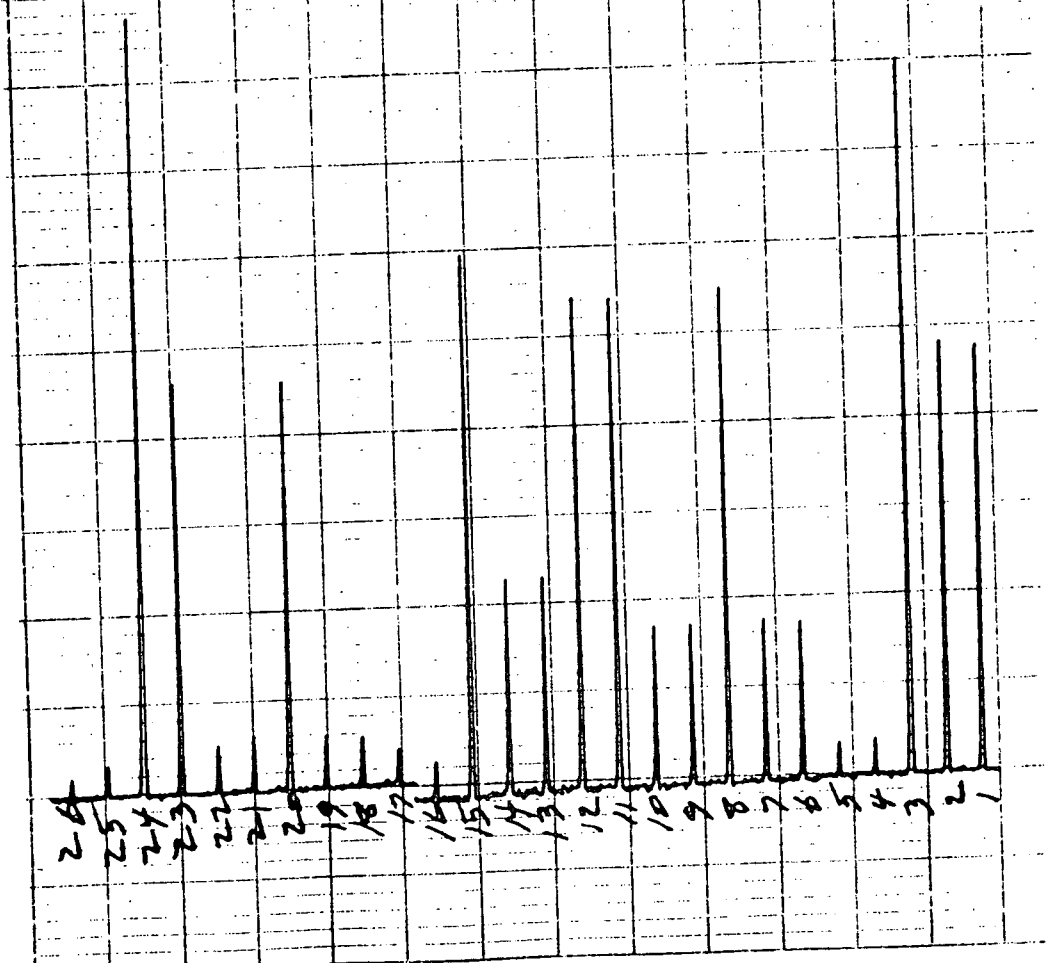


608

PERK

Pb 9/9/67

TRAY II



Tray No. I Test Sb Pg No. ___ Date 9/15/87

Analyst M. Fitten

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	Blank				
2	8				
3	24				
4	40				
5	80				
6	160				
7	200				
8	280				
9	Cal blank	<60			
10	dig blank	<60			
11	LCS	86.0	107.5 % rec	TV=80.0	
12	dig LCS	86.0	107.5 % rec	TV=80.0	
13	759871	<60	RPDNC		Soil 1 BSA 0819785
14	dup871	<60			
15	+100871	123	123 % rec		.140 - .017 = .123
16	871	<60	RPDNC		Soil 1 BSA 0819785 .016
17	dup 871	<60			
18	+100 871	110	110% rec		.126 - .016 = .110
19	+100 871	104	digested	~~104~~ 120 % rec	.120 - .016 = .104
20	875	<60	RPDNC		Soil 2 BSA 0819786
21	dup 875	<60			
22	+100 875	114	114 % rec		.128 - .014 = .114
23	cal blank	<60			
24	dig blank	<60			
25	879	<60	RPDNC		Soil 3 BSA 0819787 .016
26	dup 879	<60			
27	+100 879	108	108 % rec		.124 - .016 = .108
28	883	<60	RPDNC		Soil 4 BSA 0819788 .01
29	dup 883	<60			
30	+100 883	130	130 % rec		.140 - .01 = .130

Tray No. II Test Sb Pg No. ___ Date 9/15/87

Analyst W. Bitten

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	759887	<60	RPDNC		Soil 5 BSA 0819789 .036
2	dup 887	<60			.031
3	+100887	123	123% rec		.159 − .036 = .123
4	cal blank	<60			
5	dig blank	<60			
6	759891	<60	RPDNC		GW1 BSA 08197890 .016
7	dup 891	<60			
8	+100891	49	49% rec		.065 − .016 = .049
9	891	<60	RPDNC		GW1 BSA 08197890 ..
10	dup 891	<60			
11	+100891	49	49% rec		
12	+100891	49	digested	49% rec	
13	895	<60	RPDNC		SW1 BSA 08197991
14	dup 895	<60			
15	+100895	140	140% rec		
16	cal blank	<60			
17	dig blank	<60			
18	899	<60	RPDNC		SW2 BSA 08197992
19	dup 899	<60			
20	+100899	144	144% rec		
21	903	<60	RPDNC		Field blank
22	dup 903	<60			
23	+100903	147	147% rec		
24	941	<60	RPDNC		Field blank
25	dup 941	<60			
26	+100941	140	140% rec		
27	cal blank	<60			
28	dig blank	<60			
29	LCS	83.0	104% rec	TV=80.0	
30					

Tray No. III Test Sb Pg No. ___ Date 9/15/87

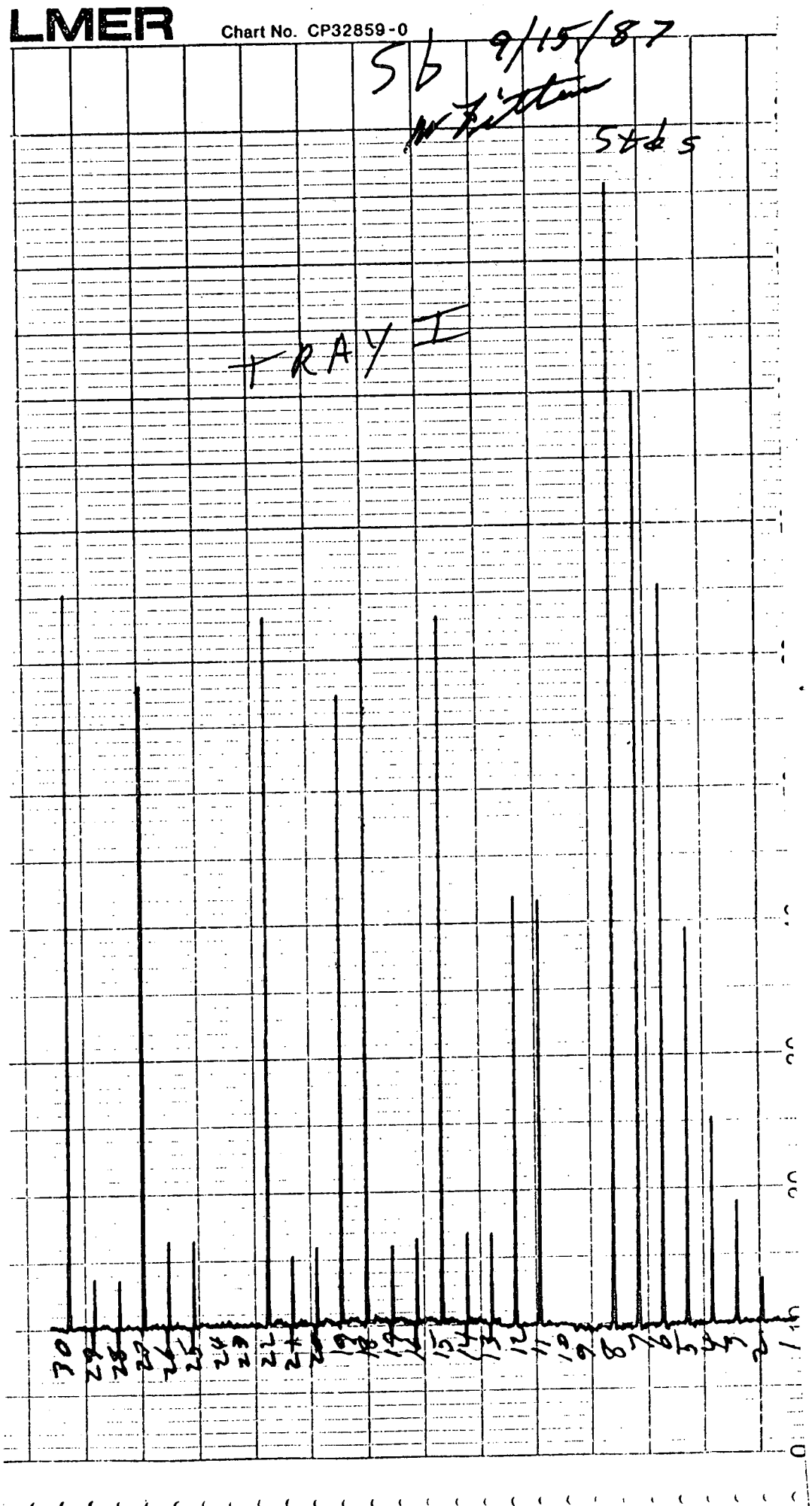
Analyst W. Fitten

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	759942	<60	RPDNC		Trip blank
2	dup 942	<60			
3	+100 942	143	143 % rec		
4	937	<60	RPDNC		MW-2
5	dup 937	<60			
6	+100 937	146	146 % rec		
7	937	<60	RPDNC		MW-2
8	dup 937	<60			
9	+100 937	145	145 % rec		
10	+100 937	147	147 % rec	digested	
11	calblank	<60			
12	digblank	<60			
13	938	<60	RPDNC		MW-3C
14	dup 938	<60			
15	+100 938	147	147 % rec		
16	760288	<60	RPDNC		Soil 2
17	dup 288	<60			
18	+100 288	104	104 % rec		
19	288	<60	RPDNC		Soil 2
20	dup 288	<60			
21	+100 288	124	124 % rec		
22	+100 288	110	110 % rec	digested	
23	calblank	<60			
24	digblank	<60			
25	292	<60	RPDNC		Soil 3
26	dup 292	<60			
27	+100 292	120	120 % rec		
28	296	<60	RPDNC		Soil 4 .014
29	dup 296	<60			
30	+100 296	103	103 % rec		.117 - .014 = .103

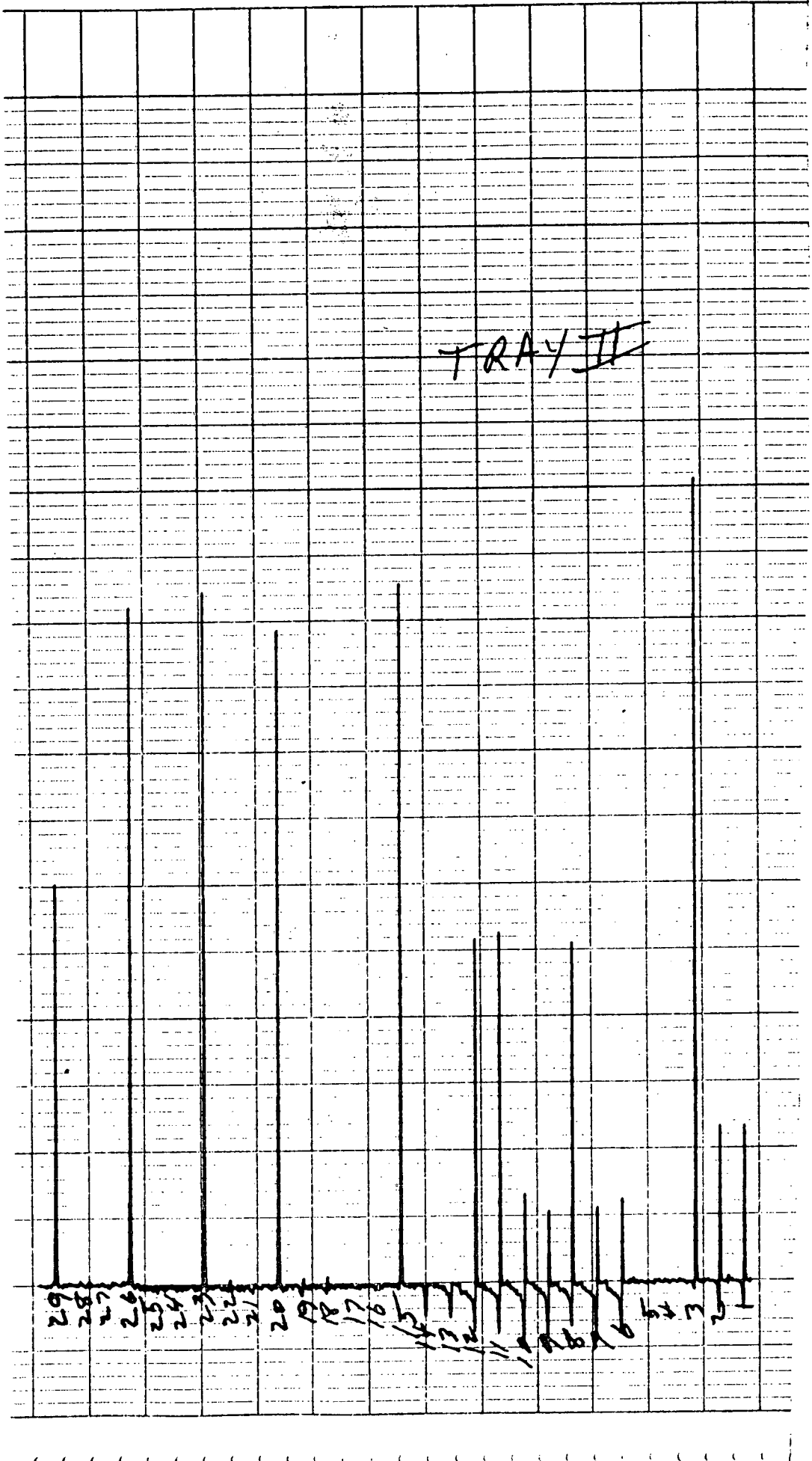
Tray No. IV Test 5b Pg No. Date 9/15/87

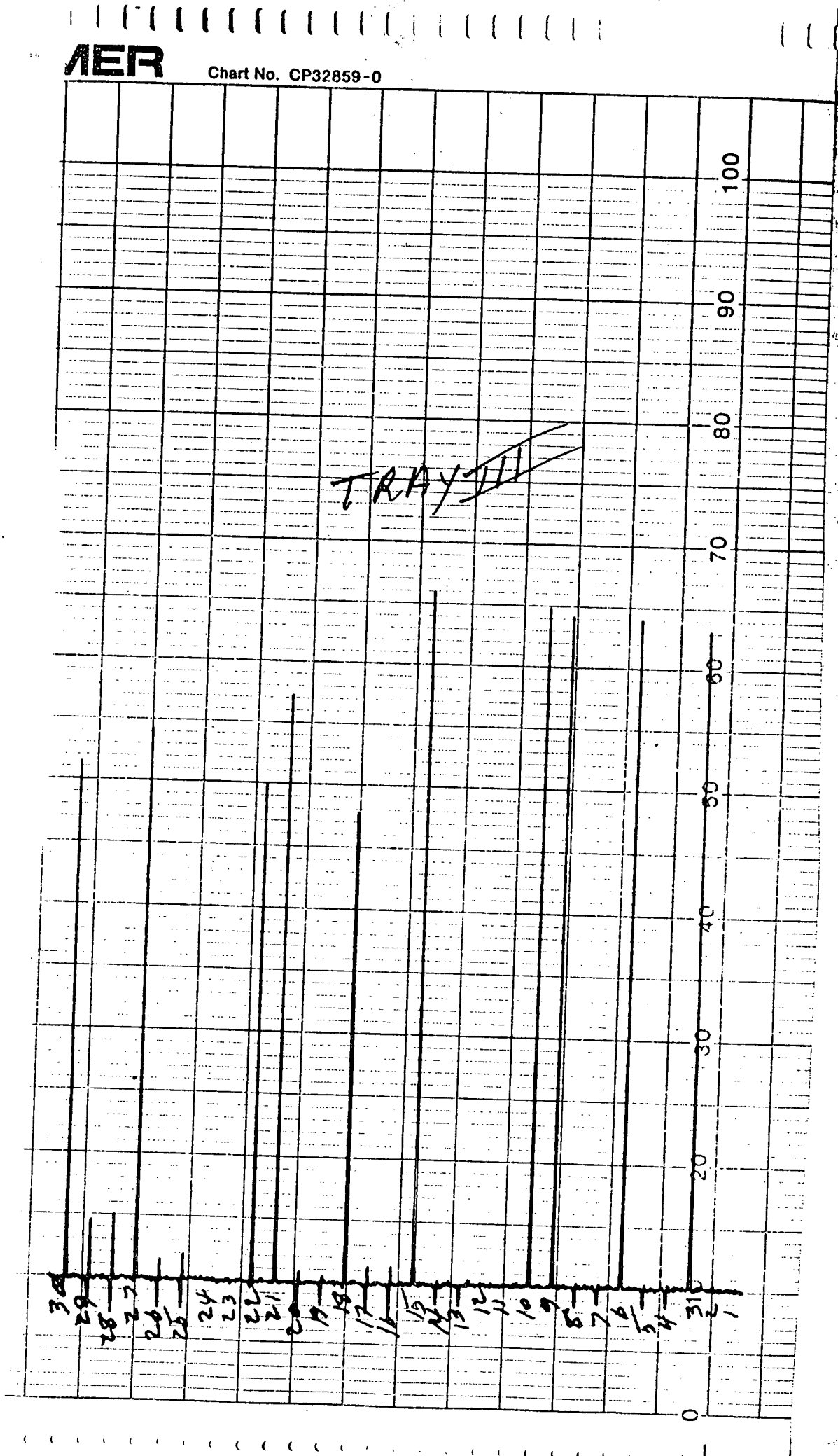
Analyst W Fitter

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	760300	<60	RPDNC		Soil 7
2	dup 300	<60			
3	trac 300	144	144%	rec	
4	cal blank	<60			
5	dig blank	<60			
6	304	<60	RPDNC		Soil 8
7	dup 304	<60			
8	trac 304	109	109%	rec	.114 - .005 = .109
9	308	<60	RPDNC		Soil 9 .024
10	dup 308	<60			
11	trac 308	100	100%	rec	.124 - .024 = .100
12	312	<60	RPDNC		Field blank
13	dup 312	<60			
14	trac 312	132	132%	rec	.132
15	cal blank	<60	RPDNC		
16	dig blank	<60			
17	LCS	84.0	105%	rec	TV = 80.0
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					


LMER
Chart No. CP32859-0
Sb
9/15/87
W Fitton
Stds
TRAY I

PERKIN-E




MER
Chart No. CP32859-0
TRAY III
100
90
80
70
60
50
40
30
20
0
34
29
28
27
26
25
24
23
22
21
20
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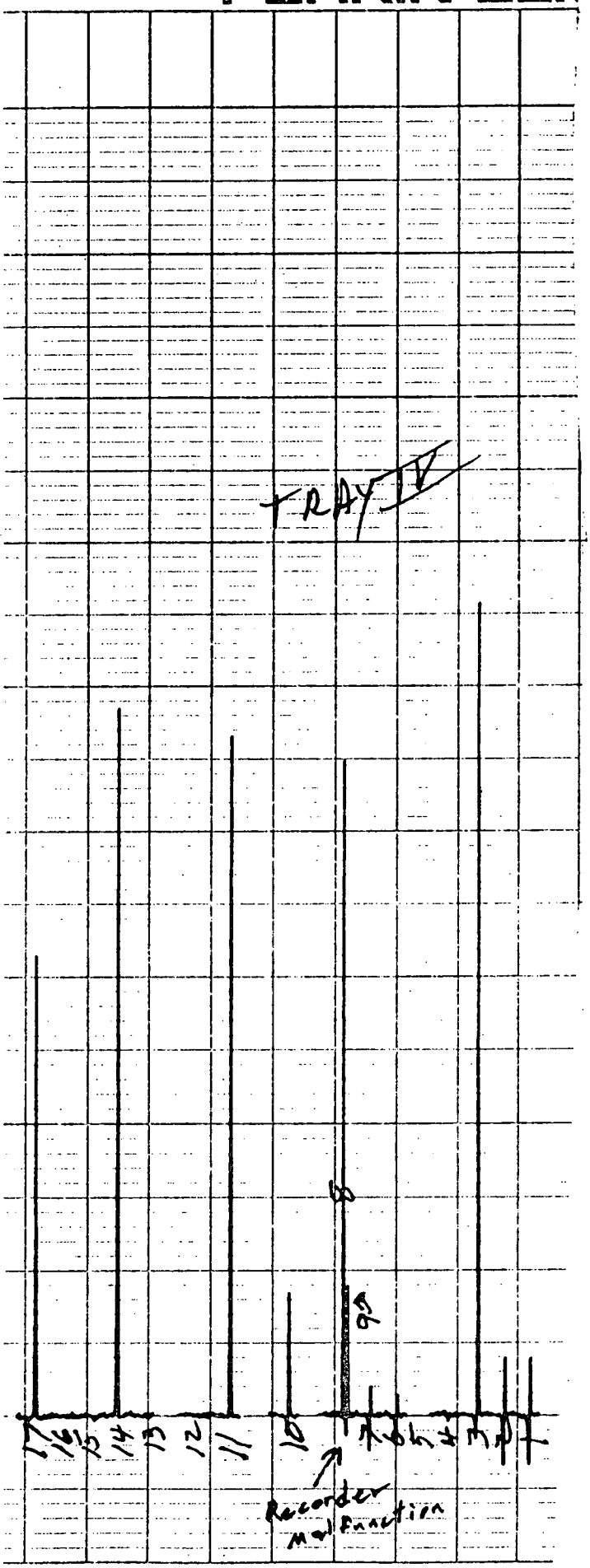
5
4
3
2
1


PERKIN-ELM
TRAY IV
98
17
16
15
14
13
12
11
10
Recorder
Malfunction

12 Divisions/Inch

5b TRAY I

1	0.006
2	0.058
3	0.160
4	0.265
5	0.508
6	0.976
7	1.188
8	1.446
9	-0.000
10	0.004
11	0.546
12	0.542
13	0.111
14	0.111
15	0.870
16	0.103
17	0.096
18	0.818
19	0.747
20	0.094
21	0.085
22	0.847
23	0.007
24	0.007
25	0.103
26	0.106
27	0.796
28	0.062
29	0.064
30	0.878

5b TRAY II

1	0.215
2	0.196
3	0.984
4	0.004
5	0.003
6	0.106
7	0.095
8	0.415
9	0.090
10	0.111
11	0.419
12	0.412
13	0.003
14	0.002
15	0.880
16	0.001
17	0.001
18	0.016
19	0.013
20	0.897
21	0.004
22	0.009
23	0.919
24	0.001
25	0.000
26	0.865
27	0.004
28	0.005
29	0.525

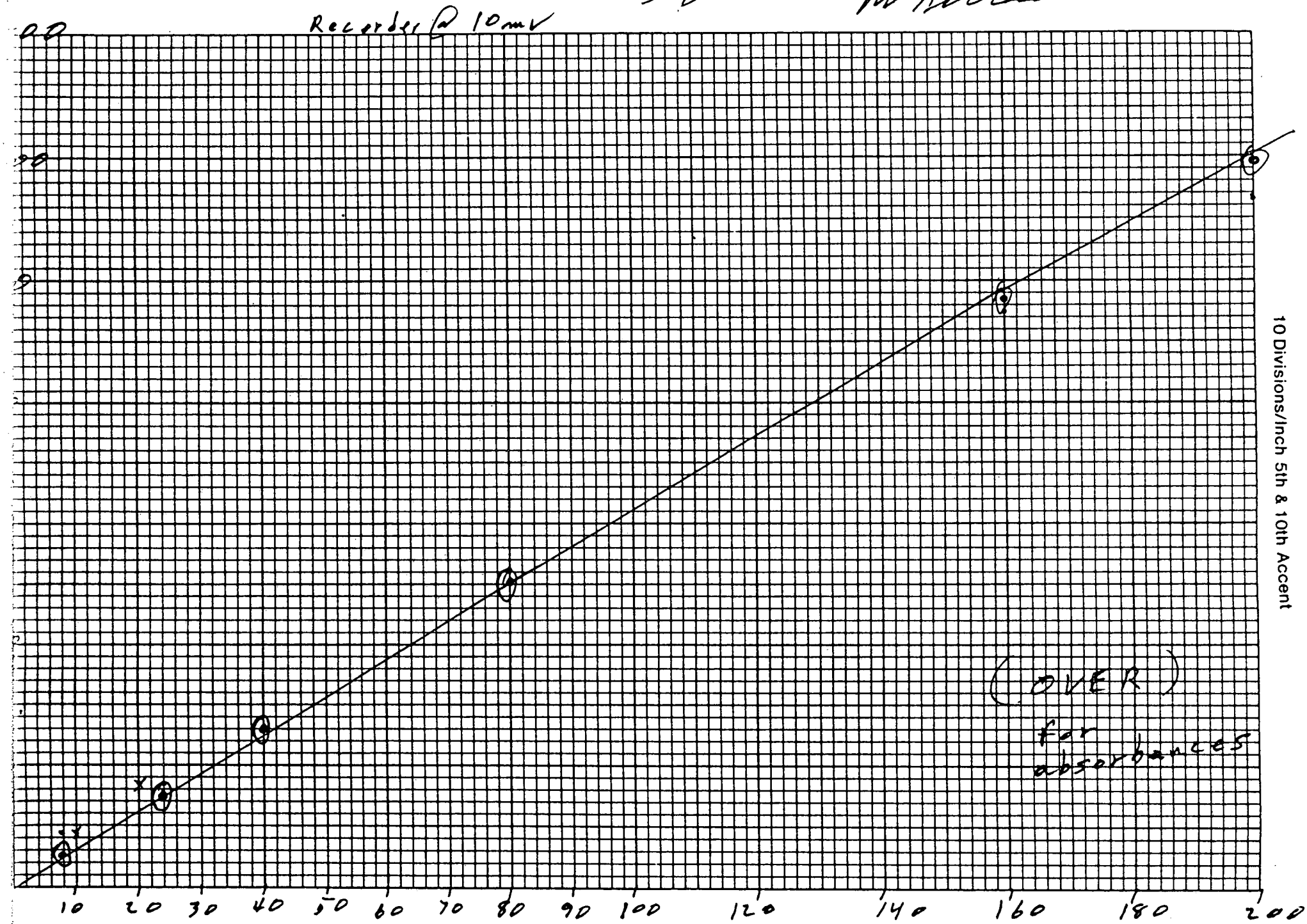
5b TRAY III

1	0.008
2	0.010
3	0.918
4	0.008
5	0.010
6	0.946
7	0.009
8	0.009
9	0.940
10	0.955
11	0.005
12	0.006
13	0.005
14	0.008
15	0.959
16	0.022
17	0.023
18	0.655
19	0.012
20	0.019
21	0.776
22	0.686
23	0.005
24	0.005
25	0.035
26	0.029
27	0.758
28	0.092
29	0.085
30	0.732

5b TRAY IV

1	0.069
2	0.070
3	0.927
4	0.006
5	0.005
6	0.026
7	0.036
8	0.711
9	0.149
10	0.141
11	0.782
12	0.005
13	0.005
14	0.819
15	0.004
16	0.005
17	0.535

Sb 7/15/87 M Kitten



10 Divisions/Inch 5th & 10th Accent

Tray No. 1 Test Se Pg No. — Date 9/10/87

Analyst [illegible]

Cup	Lab No.	Result**	dil. fact.	[illegible]	notes
1	Blank				
2	5				
3	10				
4	20				
5	40				
6	50				
7	70				
8	100				
9	CAL BLK				
10	DIG BLK				
11	ICV	53	106% rec		
12	LCS	53	106% rec		
13	759871	<5	RPD NC	Soil 1	
14	871	<5			
15	+10 871	4.0	40% Rec	BSA 0819	
16	871	<5	RPD NC	785	
17	871	<5			
18	+10 871	5.0	50% Rec		
19	+20 871	10.0	50% Rec	digested	
20	875	<5	RPD NC	Soil 2	
21	875	<5		0819786	
22	+10 875	4.0	40% Rec		
23	CAL BLK	<5			
24	DIG BLK	<5			
25	759879	<5	RPD NC	Soil 3	
26	879	<5		0819787	
27	+10 879	5.0	50% Rec		
28	883	<5	RPD NC	Soil 4	
29	883	<5		0819788	
30	+10 883	4.0	40% Rec		

Se Tray I JMH 9/10/87

1	0.025
2	0.033
3	0.062
4	0.112
5	0.229
6	0.270
7	0.368
8	0.482
9	0.023
10	0.023
11	0.282
12	0.281
13	0.030
14	0.033
15	0.038
16	0.026
17	0.029
18	0.045
19	0.068
20	0.022
21	0.030
22	0.039
23	0.025
24	0.019
25	0.027
26	0.021
27	0.043
28	0.022
29	0.020
30	0.036

Tray No. (2) Test Se Pg No. Date 9/10/87

Analyst [illegible]

Cup	Lab No.	Result	dil. fact.	abs.	notes
1	759887	<5	RPD NC	0819789	
2	887	<5		Soil 5	
3	+10 887	6.0	60% Rec		
4	Cal blk	<5			
5	dig blk	<5			
6	891				
7	891		dilute	GW1	
8	+10 891			08197-	
9	891			890	
10	891		dilute		
11	+10 891				
12	+ 891				
13	895	<5	RPD NC	SW1	
14	895	<5		08197-	
15	+10 895	5.0	50% Rec	991	
16	cal blk	<5	RPD NC		
17	dig blk	<5			
18	CCB	50.0	100% Rec		
19	899	<5	RPD NC	SW-2	
20	899	<5		08197-	
21	+10 899	70% Rec	7.0	992	
22	903	<5	RPD NC		
23	903	<5		FIELD BLK	
24	+10 903	8.0	80% Rec		
25	941	<5	RPD NC		
26	941	<5		FIELD BLK	
27	+10 941	9.5	95% Rec		
28	942	<5	RPD NC		
29	942	<5		TRIP BLK	
30	+10 942	9.5	95% Rec		

Se Tray (2) JMH 9/10/87

1	0.034
2	0.020
3	0.044
4	0.017
5	0.016
6	0.084
7	0.085
8	0.090
9	0.081
10	0.092
11	0.079
12	0.098
13	0.013
14	0.012
15	0.033
16	0.014
17	0.011
18	0.251
19	0.023
20	0.017
21	0.042
22	0.010
23	0.013
24	0.051
25	0.009
26	0.009
27	0.054
28	0.018
29	0.014
30	0.055

Tray No. (3) Test (Se) Pg No — Date 9/10/87

Analyst ~~Jessica Ortiz~~

Cup	Lab No.	Result ppb	dil. fact.	abs.	
1	cal blk	<5			
2	dig blk	<5			
3	759937	<5	NC		
4	937	<5			
5	+10 937	40.*	40% Rec		MW-2
6	937	<5	NC		dig
7	937	<5			
8	+10 937	5.0	50% Rec		
9	+20 937	10.5	53% Rec		digestate
10	939	<5	NC		
11	939	<5			
12	+10 939	4.0	40% Rec		MW-2
13	cal blk	<5			EPX
14	dig blk	<5			
15	939	<5	NC		
16	939	<5			
17	+10 939	5.0	50% Rec		
18	938	<5	NC		MW-3C
19	938	<5			dig
20	+10 938	4.0	40% Rec		
21	940	<5	NC		
22	940	<5			MW-3C
23	+10 940	6.0	60% Rec		EPX
24	cal blk	<5			
25	dig blk	<5			
26	LCS	52.0	104% rec		
27	760 288	<5	NC		
28	288	<5			Soil #2
29	+10 288	6.0	60% Rec		
30	288	<5			

Notes:

Se stds + LCS + RAY new graph

	abs.
1	0.040
2	0.051
3	0.068
4	0.127
5	0.232
6	0.303
7	0.402
8	0.551
9	0.047
10	0.042
11	0.315
12	0.314
1	0.037
2	0.035
3	0.038
4	0.044
5	0.058
6	0.046
7	0.032
8	0.057
9	0.086
10	0.041
11	0.038
12	0.055
13	0.033
14	0.039
15	0.039
16	0.039
17	0.060
18	0.038
19	0.041
20	0.049
21	0.043
22	0.038
23	0.058
24	0.027
25	0.036
26	0.297
27	0.049
28	0.046
29	0.059
30	0.049

Tray No. IV Test Se Pg No. — Date 9/10/87

Analyst [illegible]

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	760 288	<5			
2	+10 288	4.0	40% Rec	Soil 2	
3	+20 288	8.0	40% Rec		
4	292	<5	NC		
5	292	<5		Soil 3	
6	+10 292	5.0	50% Rec		
7	cal blk	<5			
8	dig blk	<5			
9	296	8.0	OK ±5		
10	296	10.0		Soil 4	Dilute
11	+10 296	14.0	60% Rec		
12	300				
13	300		Dilute	Soil 7	
14	+10 300				
15	304				
16	304		Dilute	Soil 8	
17	+10 304				
18	cal blk	<5			
19	dig blk	<5			
20	308				
21	308		dilute	Soil 9	
22	+10 308				
23	312	<5	NC		
24	312	<5		Field Blk	
25	+10 312	7.0	70% Rec		
26	LCS	45.0	90% Rec		
27	cal blk	<5			
28	dig blk	<5			
29					
30					

Se TRAY IV

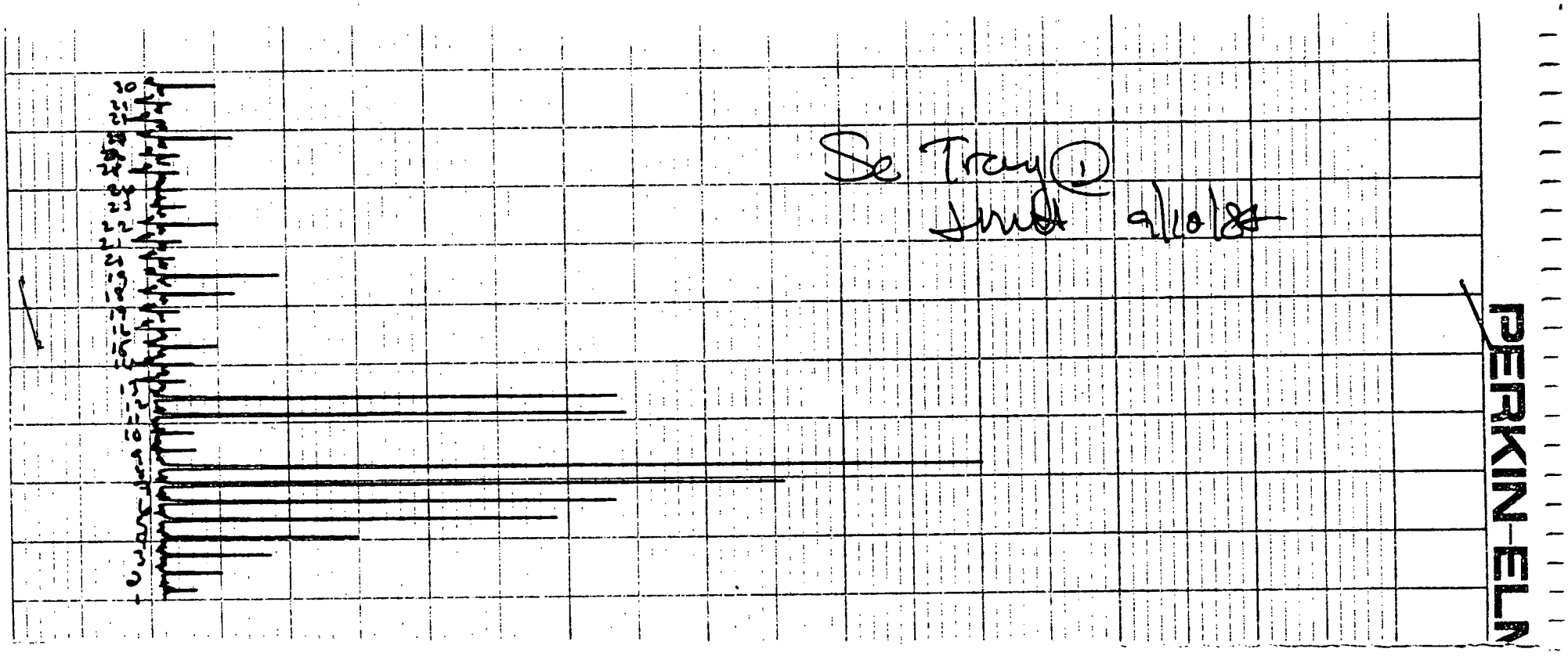
1	0.045
2	0.055
3	0.077
4	0.049
5	0.057
6	0.062
7	0.037
8	0.034
9	0.077
10	0.086
11	0.104
12	0.071
13	0.066
14	0.068
15	0.076
16	0.063
17	0.070
18	0.029
19	0.037
20	0.068
21	0.077
22	0.072
23	0.031
24	0.031
25	0.064
26	0.265
27	0.038
28	0.032

Tray No. (5) Test Se Pg No — Date 9/10/82
Analyst JWH

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	Blank				
2	5				
3	10				
4	20				
5	40				
6	50				
7	70				
8	100				
9	cal blk	<5			
10	dig blk	<5			
11	CCV	47.0	94% rec	T.V. = 50.0	
12	759891	<50	(10) >NC		
13	891	<50	(10) /	GW	
14	+10 891	4.0	40% Rec	08197-	
15	891	<50	(10) NC	890	
16	891	<50	/		
17	+10 891	4.0	40% rec		
18	760296	<50	(4) >NC		
19	296	<50		Soil 4	
20	+10 296	4.0	40% rec		
21	300	<50	(10) >NC		
22	300	<50	(10) /	Soil 7	
23	+10 300	4.0	40% rec		
24	cal blk	<5			
25	dig blk	<5			
26	304	<50	(10) >NC		
27	304	<50	(10) /	Soil 8	
28	+10 304	6.0	60% rec		
29	308	<50	(10) >NC		
30	308	<50	(9) /	Soil 9	
31	+10 308	6.0	60% rec		
32	CCV	49.0	98% rec		

Se TRAY 5

1	0.014
2	0.033
3	0.060
4	0.114
5	0.205
6	0.270
7	0.358
8	0.478
9	0.019
10	0.016
11	0.253
12	0.002
13	0.003
14	0.034
15	0.004
16	0.004
17	0.035
18	0.004
19	0.004
20	0.033
21	0.006
22	0.005
23	0.031
24	0.011
25	0.011
26	0.007
27	0.005
28	0.040
29	0.007
30	0.007
31	0.037
32	0.249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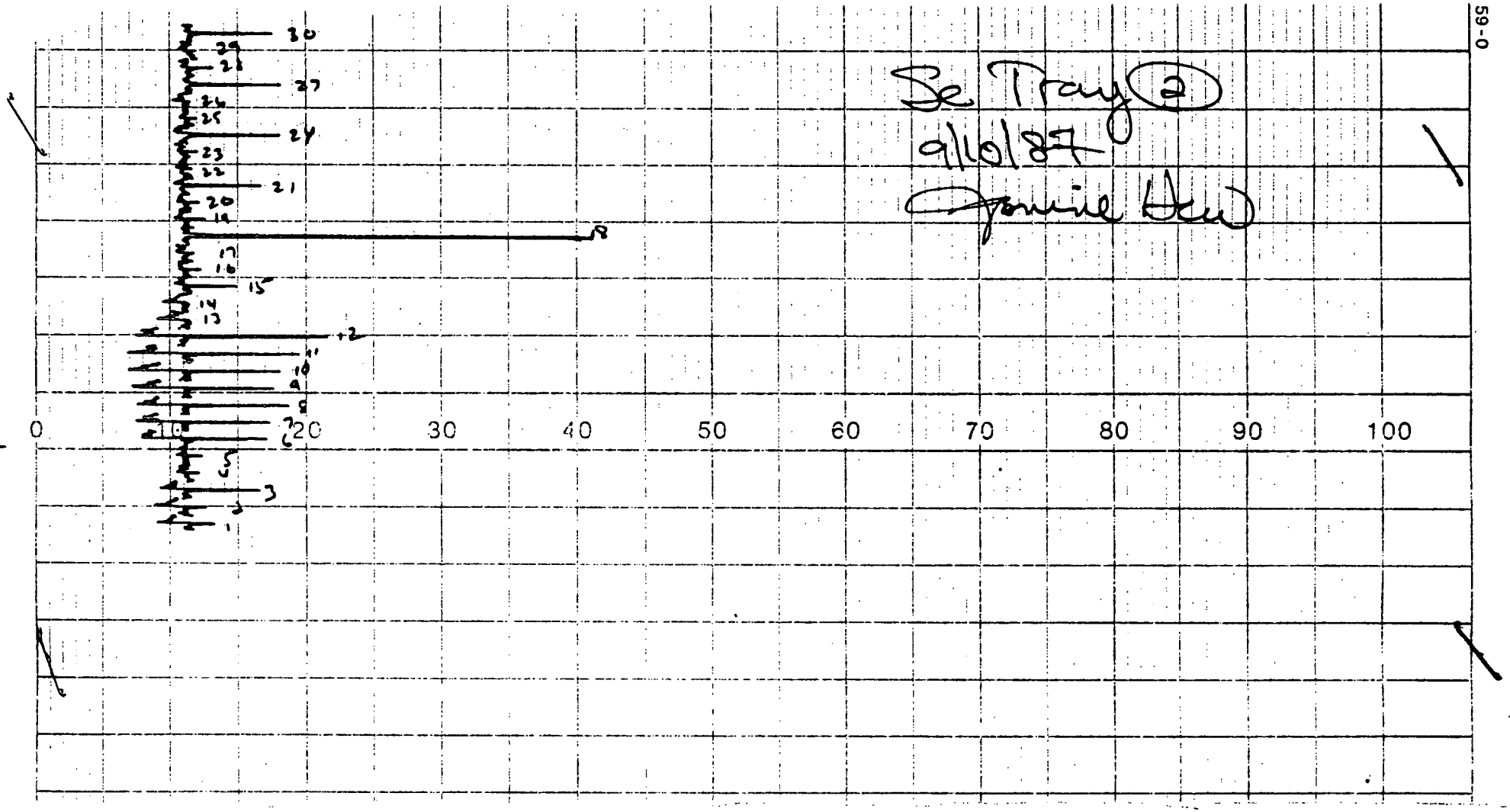
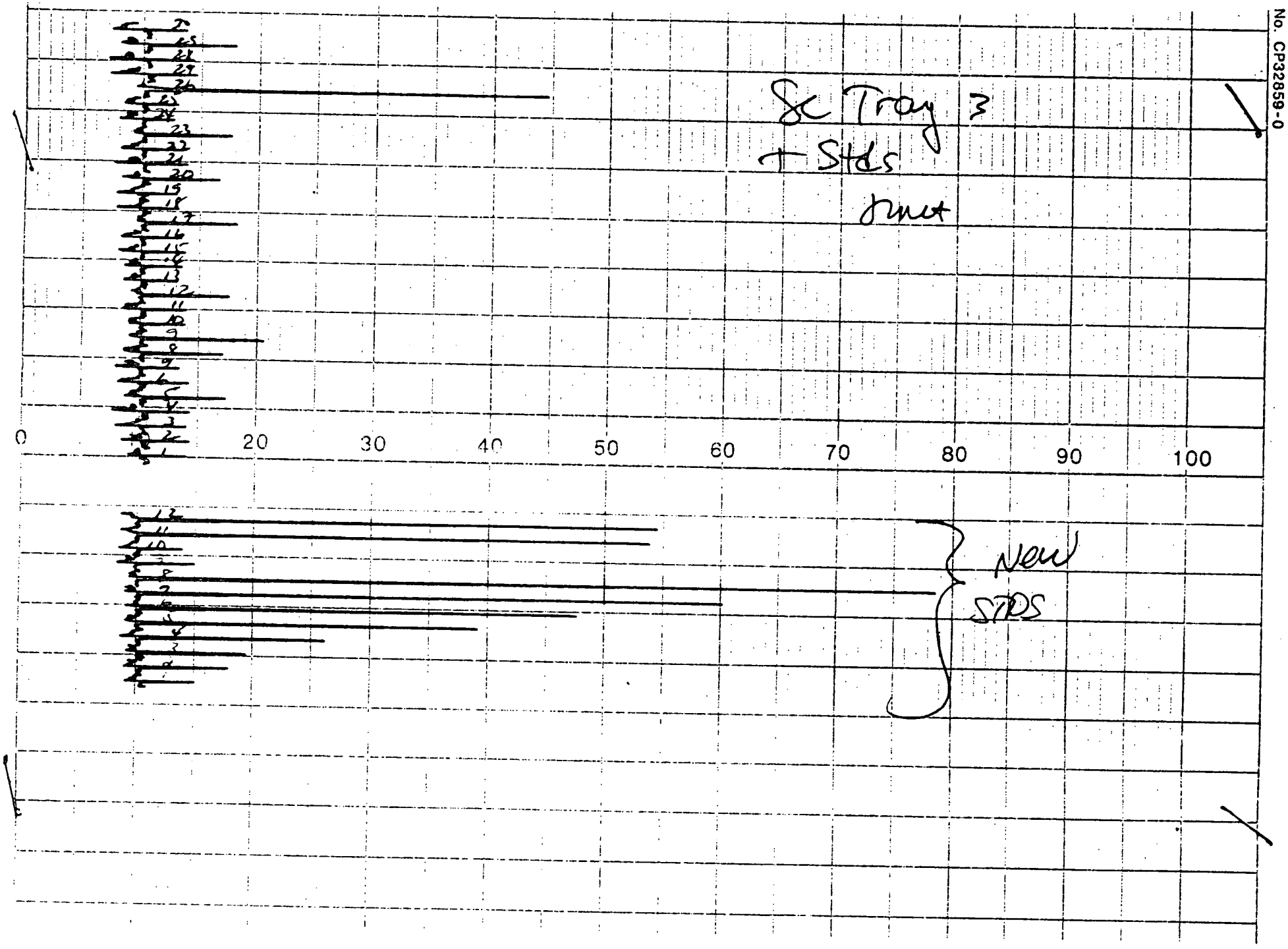
9/10/84
PERKIN-ELM


Se Tray 2
9/10/87
Jennie Hsu
59-0
0
20
30
40
50
60
70
80
90
100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Sc Tray 3
+ Stds
Unit
0
20
30
40
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New
STDS

627

28
27
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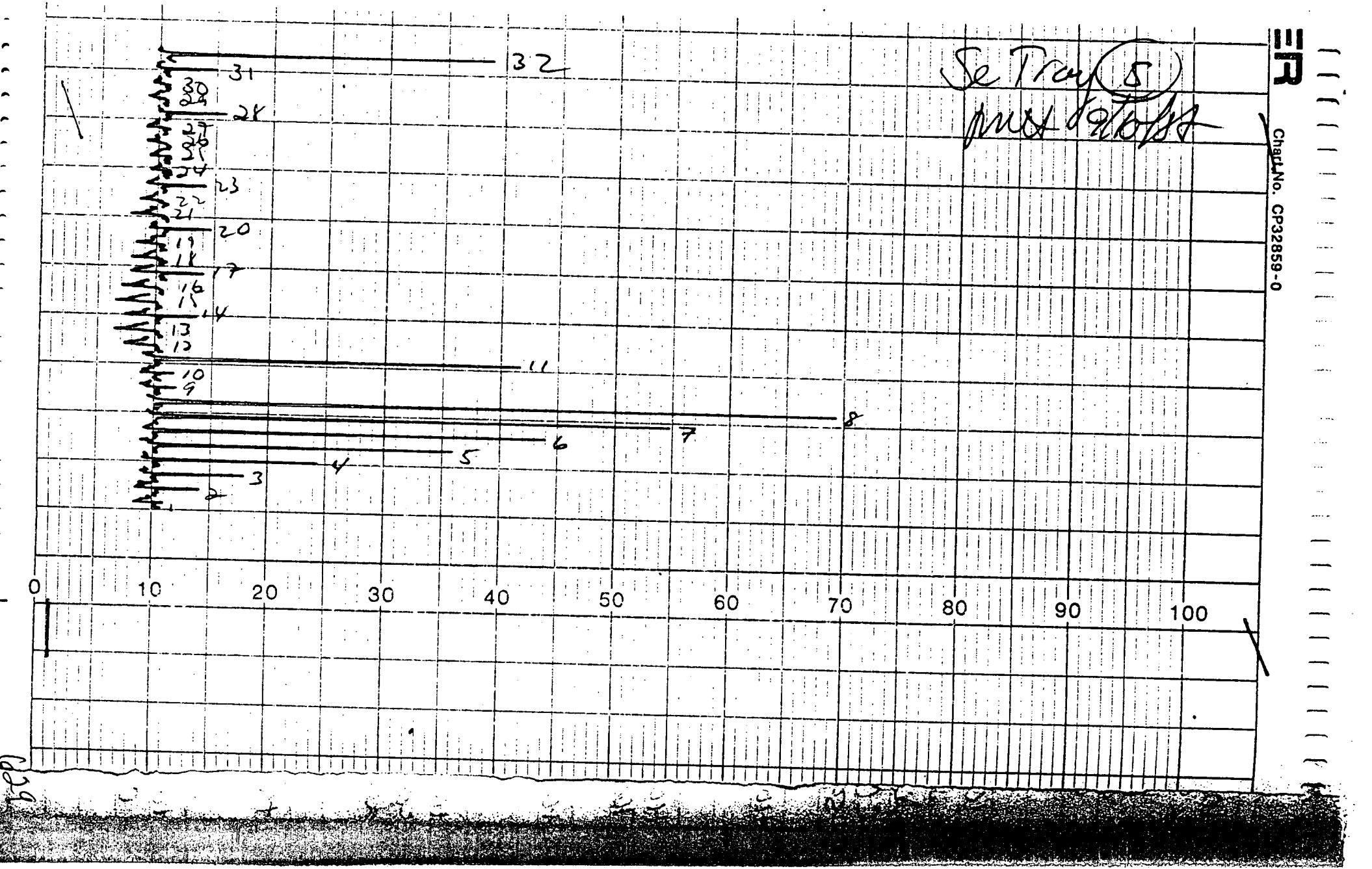
PERKIN-ELMER
Chart

628


Se Tray 5
mix data
ER
Chart No. CP32859-0
32
31
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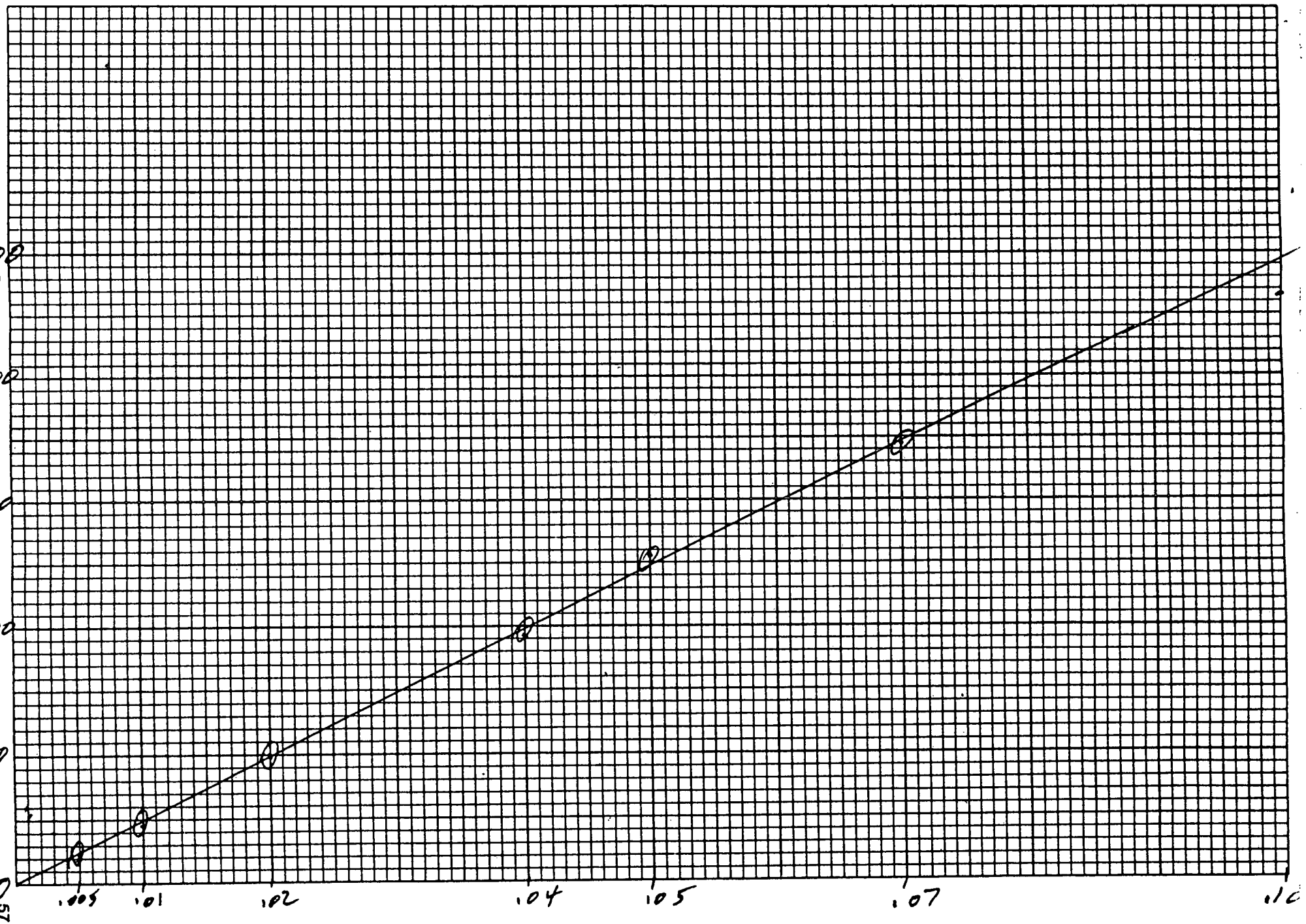
90
100

Se TRAY 5



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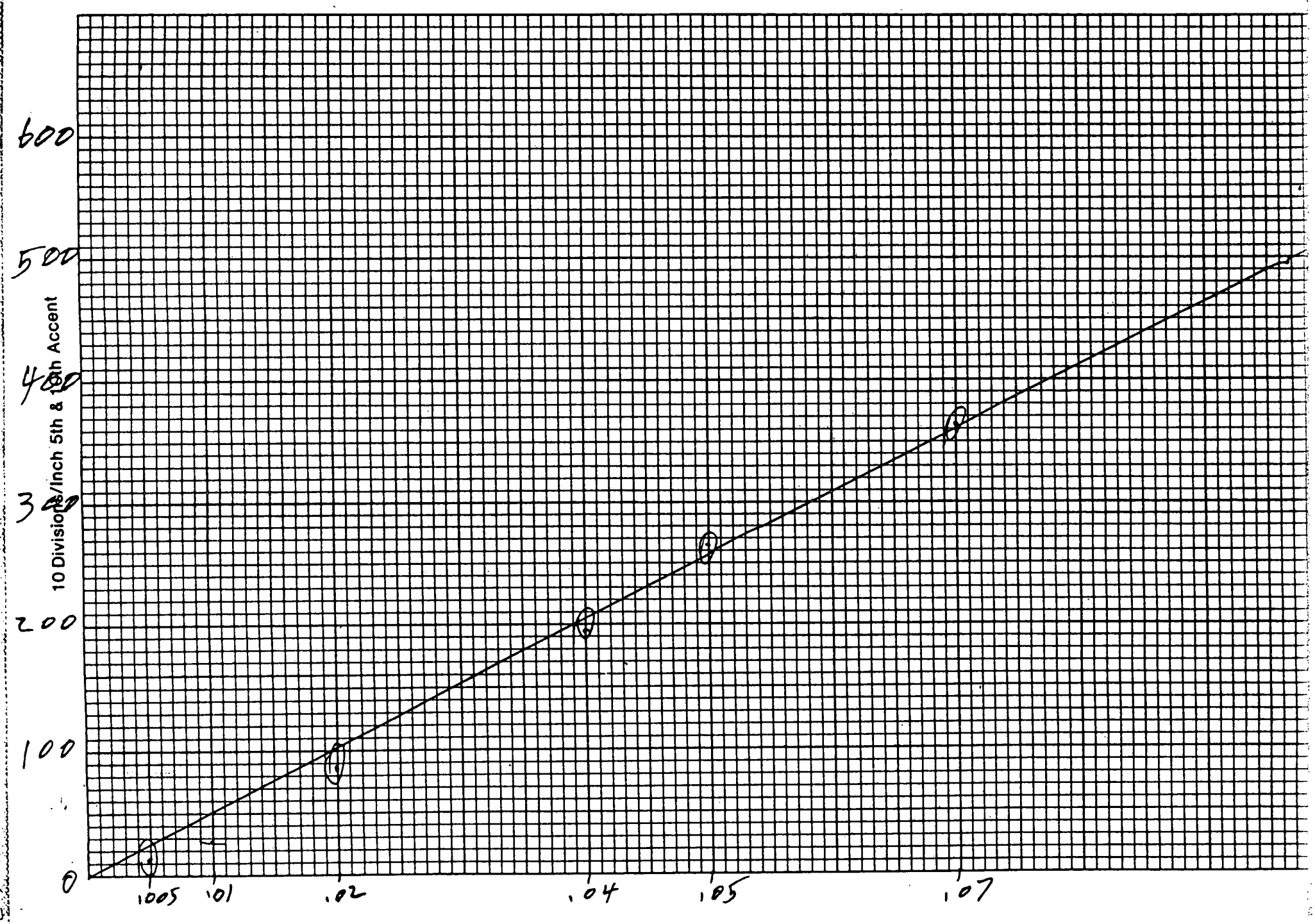
5e 9/10/87 TRAY 3 + 4 + 5 regulator



Se Smut 9/10/87 TRAY 1 of 2

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Tray No. I Test As Pg No. — Date 9/10/87

Analyst W Pitt

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	Blank				
2	5				
3	10				
4	20				
5	40				
6	50				
7	70				
8	100				
9	calblank	<10			
10	digblank	<10			
11	LCS	48.0	96% rec	TV=50.0	
12	dig LCS	50.5	101% rec	TV=50.0	
13	759871	over cal			Soil 1 BSA 0819785
14	dup 871				
15	+20 871				
16	871	66.0			Soil 1 BSA 0819785 .066
17	dup 871	62.0			.062
18	+20 871	5.0	25% rec		.071 - .066 = .005
19	+40 871	over cal	digested		
20	875	over cal			Soil 2 BSA 0819786
21	dup 875				
22	+20 875				
23	calblank	<10			
24	digblank	<10			
25	879	over cal			Soil 3 BSA 0819787
26	dup 879				
27	+20 879				
28	883	over cal			Soil 4 BSA 0819788
29	dup 883				
30	+20 883				

Tray No. II Test As Pg No. — Date 9/10/87
Analyst W. Fitten

Cup	Lab No.	Result	dil. fact.	abs.	notes
1	759887	over			Soil 5 BSA 0819789
2	dup 887	cal			
3	+20887				
4	cal blank	<10			
5	dig blank	<10			
6	891	over			GW1 BSA 08197890
7	dup 891	cal			
8	+20891				
9	891	over			GW1 BSA 08197890
10	dup 891	cal			
11	+20891				
12	+40891	over cal	digested		
13	895	<10	RPDNC		SW1 BSA 08197991
14	dup 895	<10			
15	+20895	17.0	85% rec		.021 − .004 = .017
16	cal blank	<10			
17	dig blank	<10			
18	LCS	48.5	97% rec	TV=50.0	
19	899	<10	RPDNC		SW2 BSA 08197992
20	dup 899	<10			
21	+20899	21.0	105% rec		.021 − 0
22	903	<10	RPDNC		Field blank
23	dup 903	<10			
24	+20903	19.0	95% rec		.019
25	759941	<10	RPDNC		Field blank
26	dup 941	<10			
27	+20941	19.0	95% rec		.019
28	942	<10	RPDNC		Trip blank
29	dup 942	<10			
30	+20942	19.0	95% rec		.019

Tray No. III Test As Pg No. — Date 9/10/87
Analyst WEF/MH

Cup	Lab No.	Result	dil. fact.	abs.	notes
1	cal blank	<1.0			
2	dig blank	<1.0			
3	759937	#10.0	0% RPD	<1.0	MW-2 dig .0105 ~~.0095~~ .0095
4	dup 937	#10.0			
5	+20 937	14.5	72.5% rec		.024 - .0095 = .0145
6	937	<1.0	RPD NC		MW-2 dig
7	dup 937	<1.0			
8	+20 937	12.5	62.5% rec		.022 - .0095 = .0125
9	+40 937	23.5	digested	58.8% rec	.033 - .0045 = .0235
10	939	<1.0	RPD NC		MW-2 EPTox
11	dup 939	<1.0			
12	+20 939	14.0	70% rec		.014
13	cal blank	<1.0			
14	dig blank	<1.0			
15	939	<1.0	RPD NC		MW-2 EPTox
16	dup 939	<1.0			
17	+20 939	12.0	60% rec		.012
18	938	<1.0			MW-3C dig .005
19	dup 938	<1.0	RPD NC		.007
20	+20 938	12.0	60% rec		.017 - .005 = .012
21	940	<1.0			MW-3C EPTox
22	dup 940	<1.0			
23	+20 940	10.0	50% rec		.01
24	cal blank	<1.0			
25	dig blank	<1.0			
26	LCS	50.0	100% Rec	TV = 50.0	
27	760288				Soil 2
28	dup 288	Dilute	over cal		
29	+20 288				
30	288				Soil 2

1635

Tray No. IV Test As Pg No. — Date 9/10/87

Analyst [illegible]

Cup	Lab No.	Results	dil. fact.	abs.	notes
1	760288				~~[illegible]~~
2	+20288	over cal			
3	+40288		digested		
4	292	over			Soil 3
5	dup 292	cal			
6	+20292				
7	cal blank	—			
8	dig blank	—			
9	296	over			Soil 4
10	dup 296	cal			
11	+20296				
12	300	over			Soil 7
13	dup 300	cal			
14	+20300				
15	304	over			Soil 8
16	dup 304	cal			
17	+20304				
18	cal blank	<10			
19	dig blank	<10			
20	308	50.0	MSA		Soil 9 .05
21	dup 308	52.0			.052
22	+20308	14.5	72.5% rec		.0645 - .05 = .0145
23	312	<10	RPD NC		Field blank
24	dup 312	<10			
25	+20312	15.0	75% rec		.015
26	LCS	48.5	97% rec	TV = 50.0	
27	cal blank	<10			
28	dig blank	<10			
29					
30					

636

Tray No. I Test As Pg No — Date 9/14/87
Analyst W Fitton

Cup	Lab No.	Result "x"	dil. fact.	abs.	notes
1	Blank				
2	5				
3	10				
4	20				
5	40				
6	50				
7	70				
8	100				
9	cal blank	<10			
10	dig blank	<10			
11	LCS	49.0	T.V.= 50.0		98% rec
12	dig LCS	49.0	T.V.= 50.0		98% rec
13	759871	<100	10	RPD NC	.006
14	dup 871	<100	10		.006
15	+20 871	10.0	10	50% rec	.016-.006=.010
16	871	<100	10	RPD NC	.006
17	dup 871	<100	10		.007
18	+20 871	9.5	10	47.5% rec	.0155-.006=.0095
19	875	125.0	Retest MSA	12.8% RPD	.0125X10=.125
20	dup 875	110.0			.011X10=.11
21	+20 875	9.0	10	45% rec	.021-.012=.009
22	cal blank	<10			
23	dig blank	<10			
24	879	140.0	Retest MSA	6.9% RPD	.014X10=.14
25	dup 879	150.0			.015X10=.15
26	+20 879	8.0	10	40% REC	.022-.014=.008
27	883	<100	10	RPD NC	.007
28	dup 883	<100	10		
29	+20 883	9.5	10	47.5% rec	.0165-.007=.0095
30					

Tray No. II Test As Pg No. ___ Date 9/14/87
Analyst W Bittner

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	759887	250.0	Retest	0% RPD	.025 X 10 = .25
2	dup 887	250.0	10 MSA		.025 X 10 = .25
3	+20 887	15.0	10	75% rec	.04 - .025 = .015
4	cal blank	<10			
5	dig blank	<10			
6	891	480.0	10	0% RPD	.048 X 10 = .48
7	dup 891	480.0	10		.048 X 10 = .48
8	+20 891	22.0	10	110% rec	.07 - .048 = .022
9	891	500.0	10	5.1% RPD	.05 X 10 = .50
10	dup 891	475.0	10		.0475 X 10 = .475
11	+20 891	20.5	10	102.5% rec	.0705 - .05 = .0205
12	288	140.0	10	3.6% RPD	.014 X 10 = .14
13	dup 288	135.0	10		.0135 X 10 = .135
14	+20 288	18.0	10	90% rec	.032 - .014 = .018
15	cal blank	<10			
16	dig blank	<10			
17	292	<100	10	RPD NC	.003
18	dup 292	<100	10		
19	+20 292	18.0	10	90% rec	.021 - .003 = .018
20	LCS	49.0	98% rec	TV = 50.0	
21	296	<100	10	RPD NC	.004
22	dup 296	<100	10		.0055 X 10 = .055
23	+20 296	17.5	10	87.5% rec	.0215 - .004 = .0175
24	300	<100	10	RPD NC	.004
25	dup 300	<100	10		.0025
26	+20 300	17.5	10	87.5	.02 - .0025 = .0175
27	cal blank	<10			
28	dig blank	<10			
29	304	<100	10	RPD NC	.006
30	dup 304	<100	10		.022 - .006 = .016 ~~MSA~~
31	+20 304	16.0	10	80% rec	~~760308~~
32	LCS	49.5	99% rec	T.V. = 50.0	~~+10~~
					~~+20~~
					~~+30~~

638

Tray No. III Test As Pg No. — Date 9/14/87

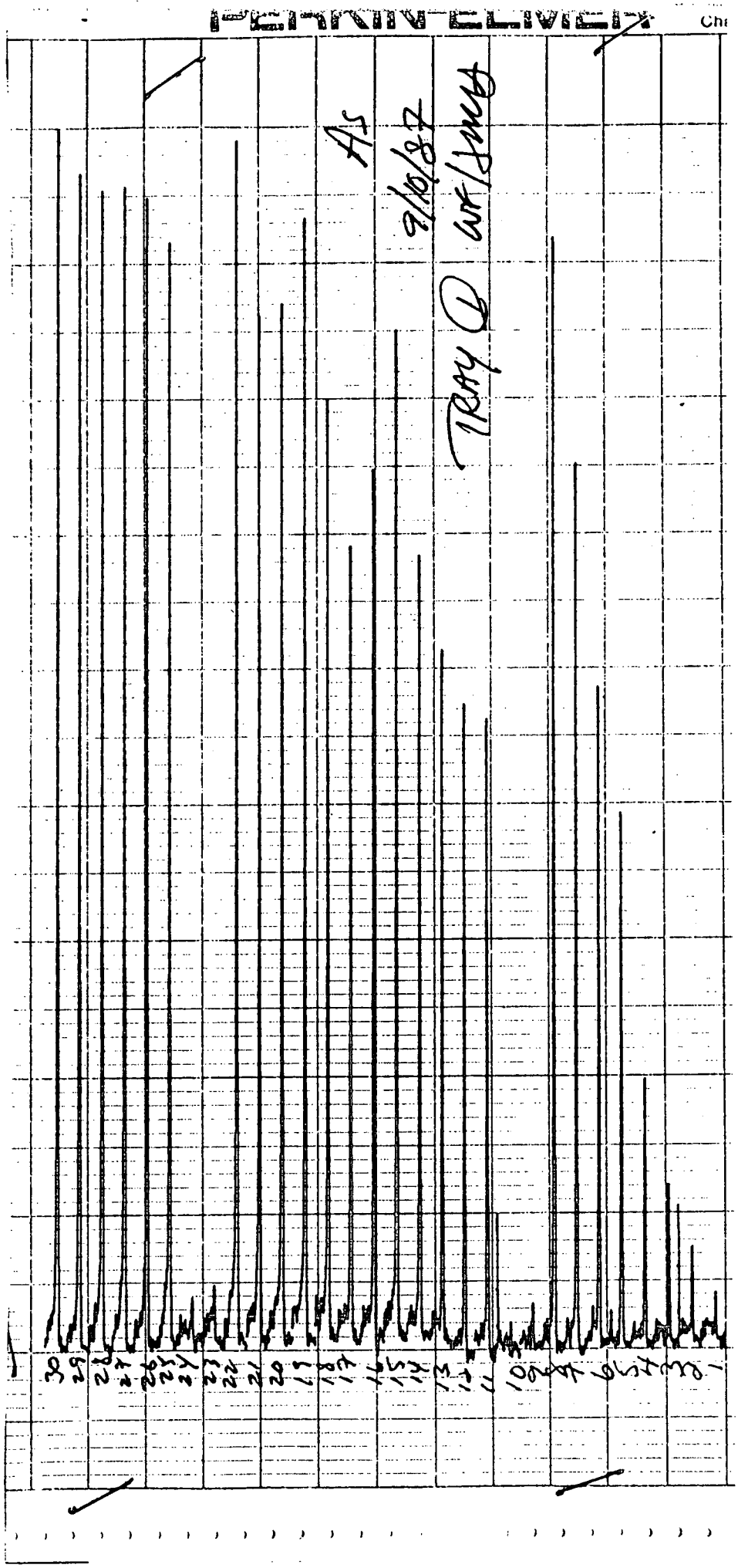
Analyst W. Pitt

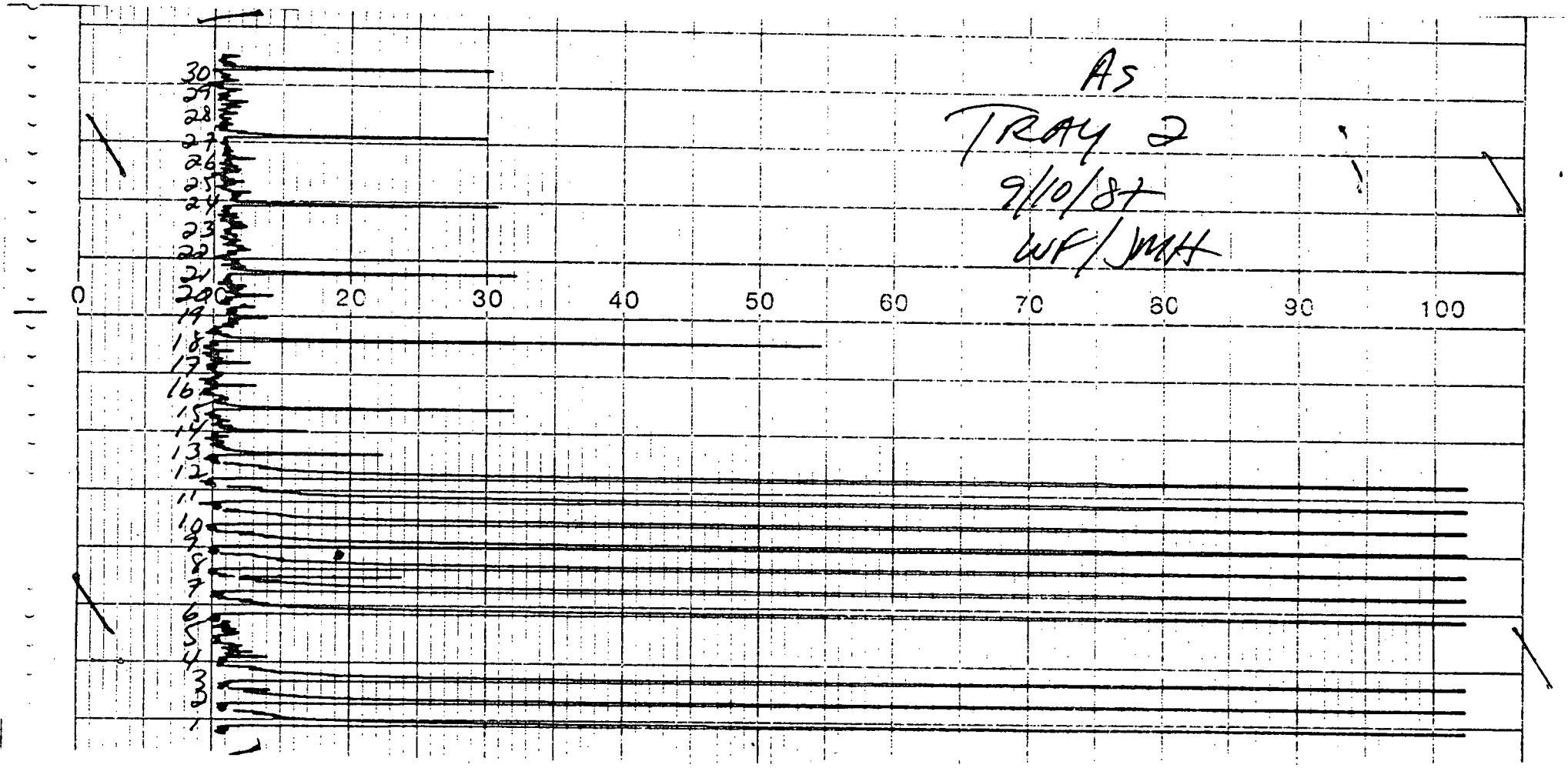
Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	760308			.303	.963 = r .364 r = .995
2	+10	M		.417	x = 49.6+ .416 x = 90.4s
3	+20	S		.470	.452
4	+30	A		.504	.488
5	875		10	.044	r = .999 .052 r = .996
6	+10	M		.092	x = [illegible] .095 x = 9.8x10 =
7	+20	S		.148	x = 8.5x10 = 85s .140 98s
8	+30	A		.195	.201
9	879		10	.053	r = .998
10	+10	M		.099	x = 10.8x10 = 108s
11	+20	S		.142	
12	+30	A		.197	
13	887		10	.152	r = .998
14	+10	M		.206	x = 33.8x10 = 338.0s
15	+20	S		.244	
16	+30	A		.292	
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

As MSA's

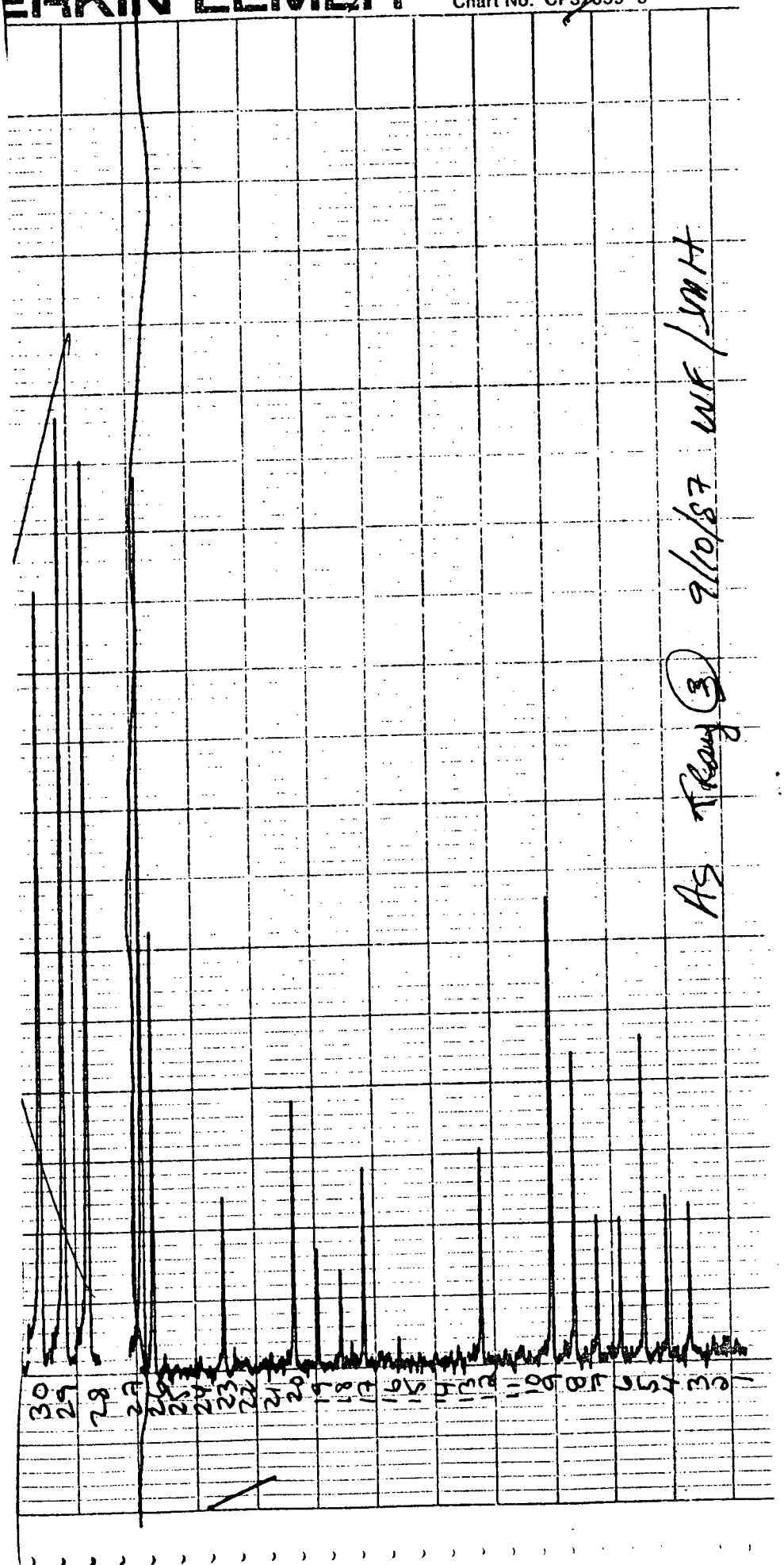
1	0.303	2	0.417	3	0.470	4	0.504	5	0.044	6	0.092	7	0.148	8	0.195	9	0.053	10	0.099	11	0.142	12	0.197	13	0.152	14	0.206	15	0.244	16	0.292
1	0.364	2	0.416	3	0.452	4	0.488	5	0.052	6	0.095	7	0.140	8	0.201																

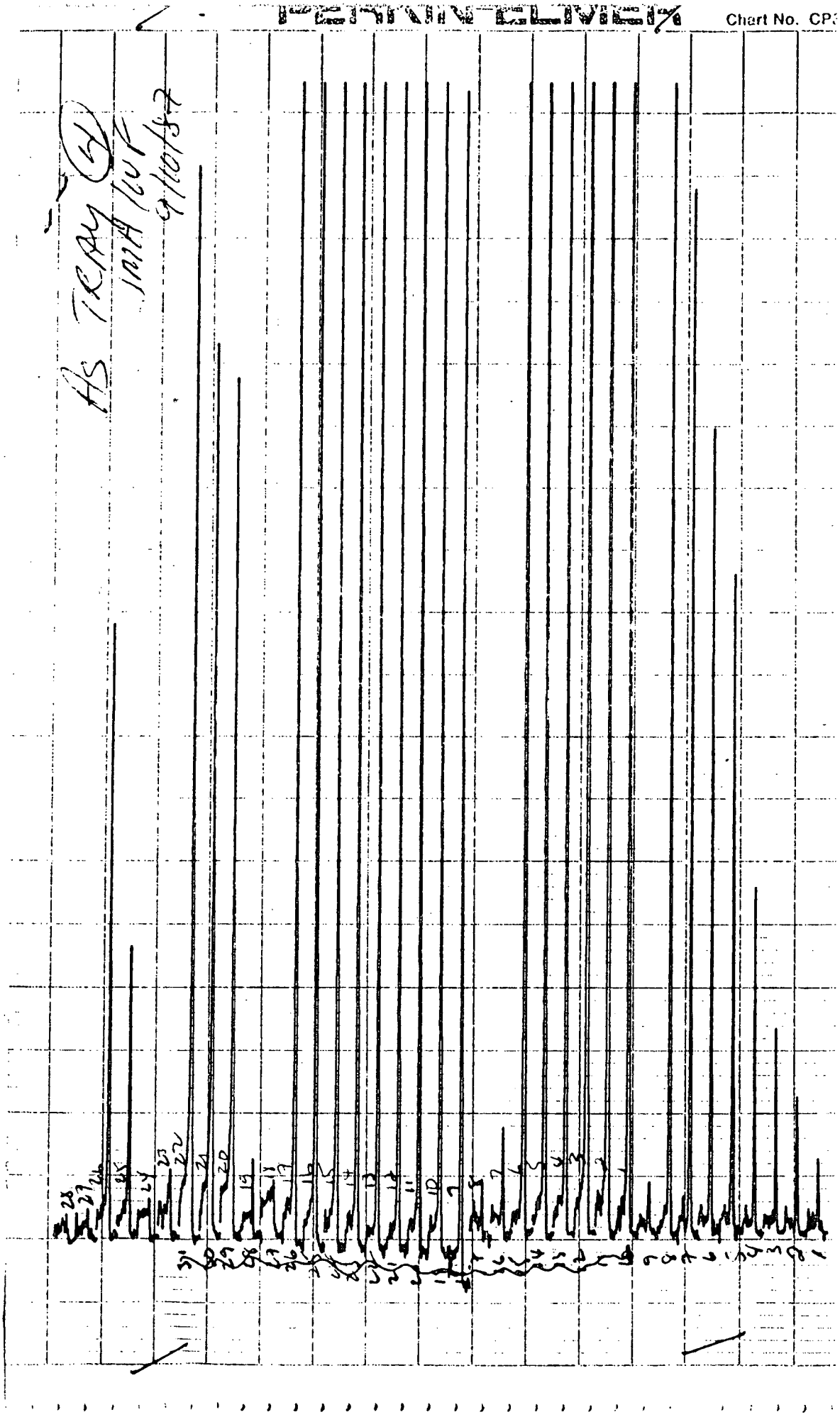
639

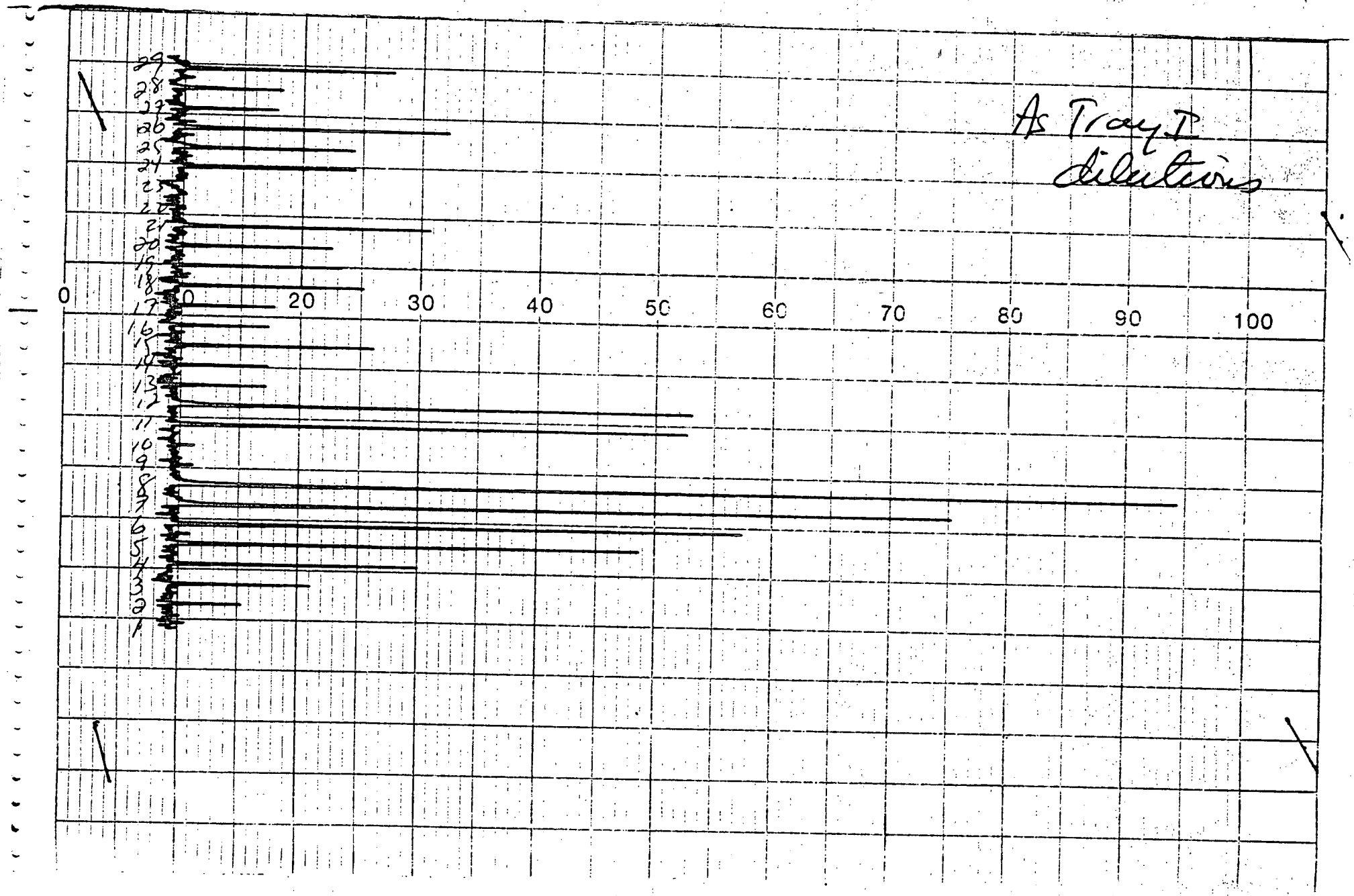

PERKIN-ELMER
As
9/10/87
TRAY ①

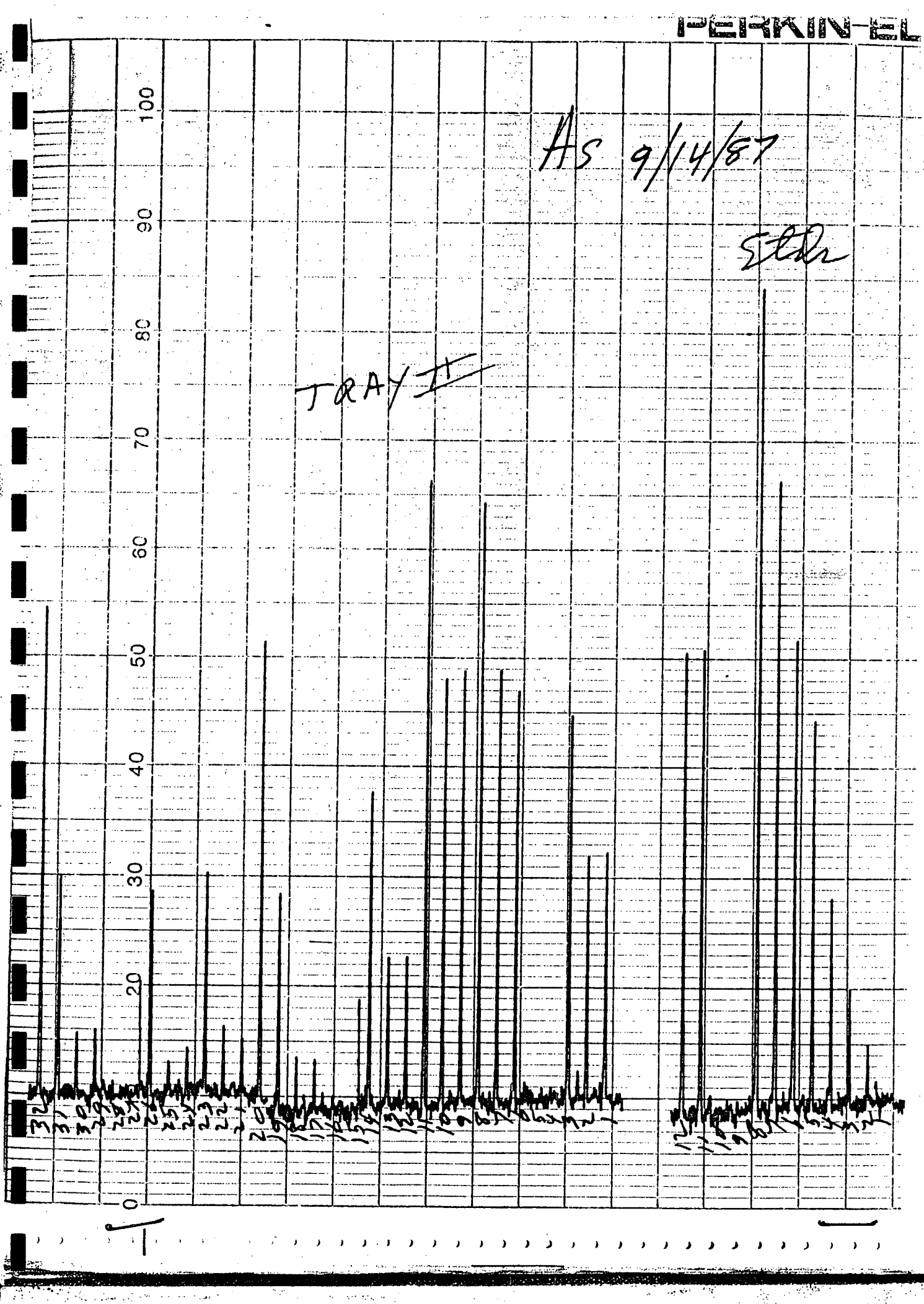

AS
TRAY 2
9/10/84
WF/JMH
0
20
30
40
50
60
70
80
90
100

ERKIN-ELMER Chart No. CP32659-0

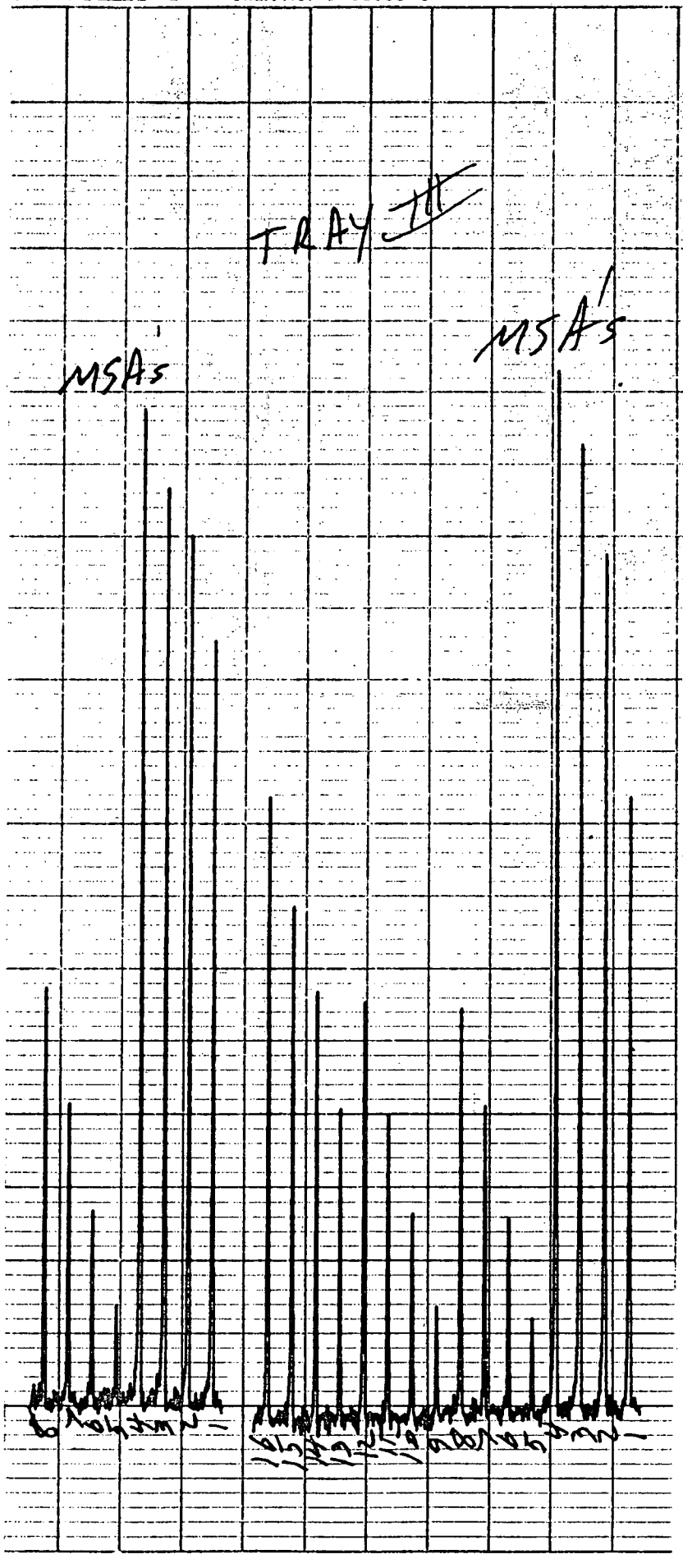


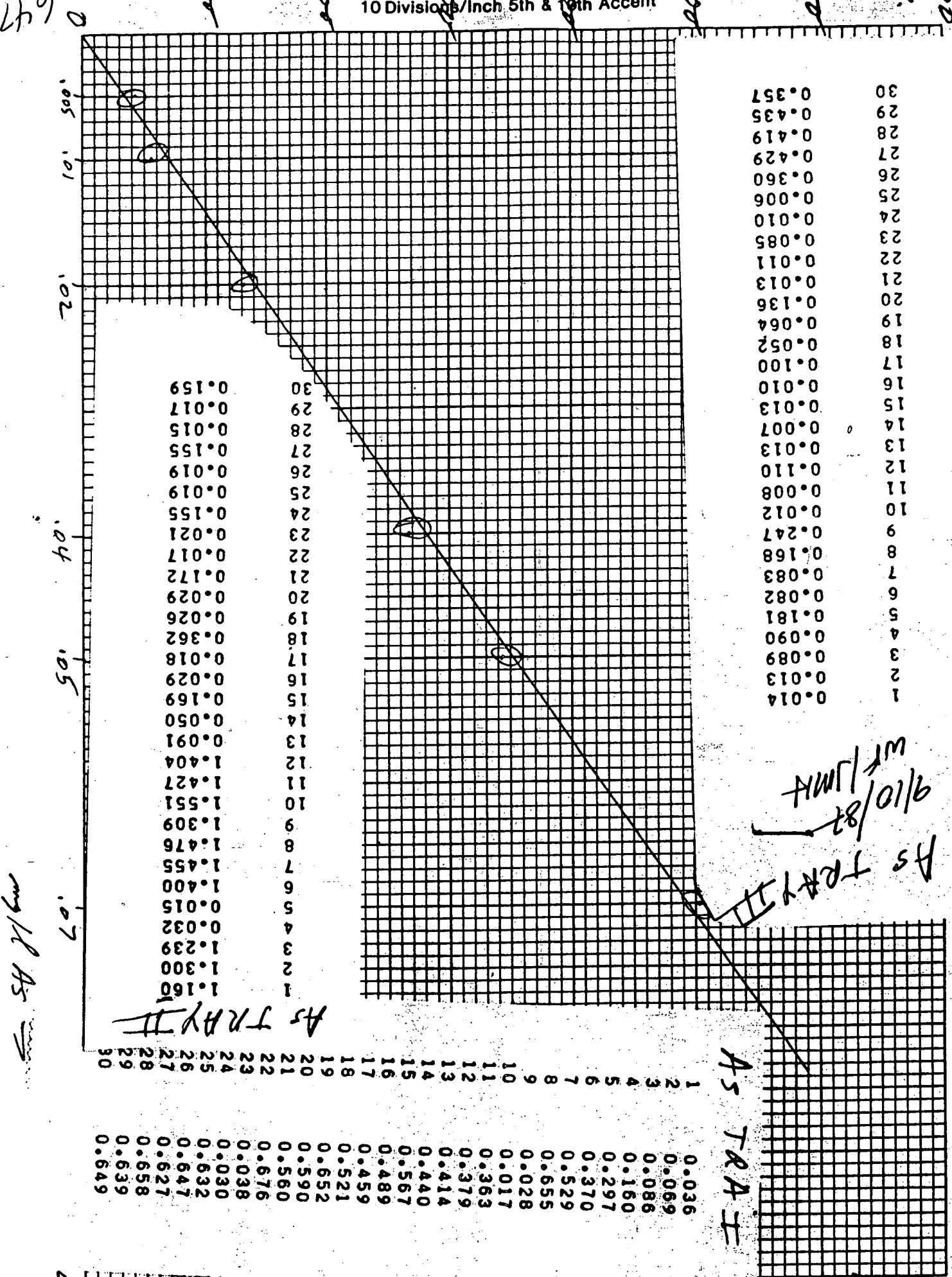

PERKIN ELMER
Chart No. CP3
AS TRAY (4)
1MA 1WF
9/10/87


As Tray I
dilutions
0
20
30
40
50
60
70
80
90
100

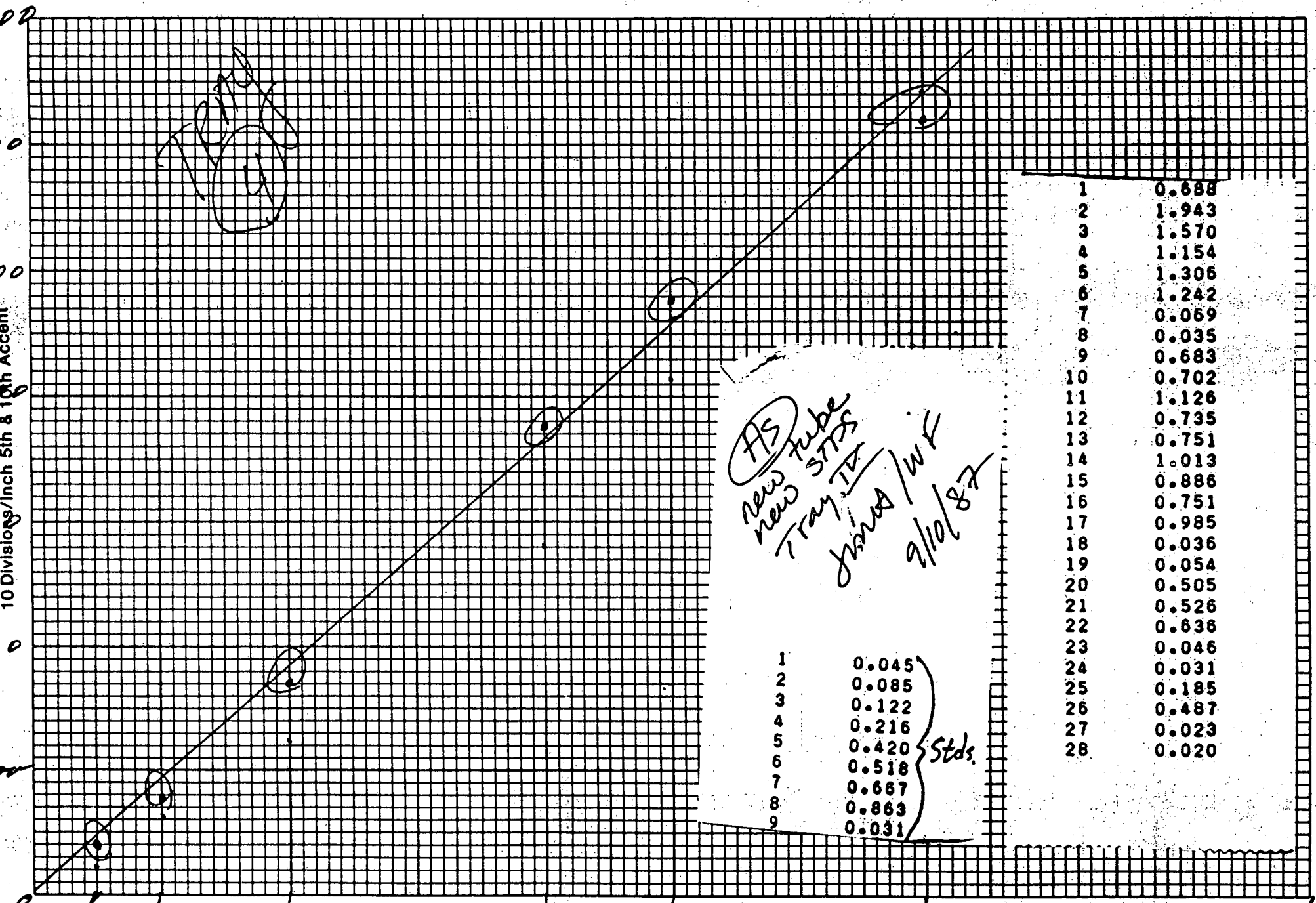

PERKIN-EL
As 9/14/87
Elder
TRAY II
100
90
80
70
60
50
40
30
20
0

MER Chart No. CP32859-0




1 0.014
2 0.013
3 0.089
4 0.090
5 0.181
6 0.082
7 0.083
8 0.168
9 0.247
10 0.012
11 0.008
12 0.110
13 0.013
14 0.007
15 0.013
16 0.010
17 0.100
18 0.052
19 0.064
20 0.136
21 0.013
22 0.011
23 0.085
24 0.010
25 0.006
26 0.360
27 0.429
28 0.419
29 0.435
30 0.357
1 1.160
2 1.300
3 1.239
4 0.032
5 0.015
6 1.400
7 1.455
8 1.476
9 1.309
10 1.551
11 1.427
12 1.404
13 0.091
14 0.050
15 0.169
16 0.029
17 0.018
18 0.362
19 0.026
20 0.029
21 0.172
22 0.017
23 0.021
24 0.155
25 0.019
26 0.019
27 0.155
28 0.015
29 0.017
30 0.159
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
0.036 0.069 0.086 0.160 0.297 0.370 0.529 0.655 0.028 0.017 0.363 0.379 0.414 0.440 0.567 0.489 0.459 0.521 0.652 0.590 0.560 0.676 0.038 0.030 0.632 0.647 0.627 0.658 0.639 0.649

As graph #2 9/10/87



1	0.688
2	1.943
3	1.570
4	1.154
5	1.306
6	1.242
7	0.069
8	0.035
9	0.683
10	0.702
11	1.126
12	0.735
13	0.751
14	1.013
15	0.886
16	0.751
17	0.985
18	0.036
19	0.054
20	0.505
21	0.526
22	0.636
23	0.046
24	0.031
25	0.185
26	0.487
27	0.023
28	0.020

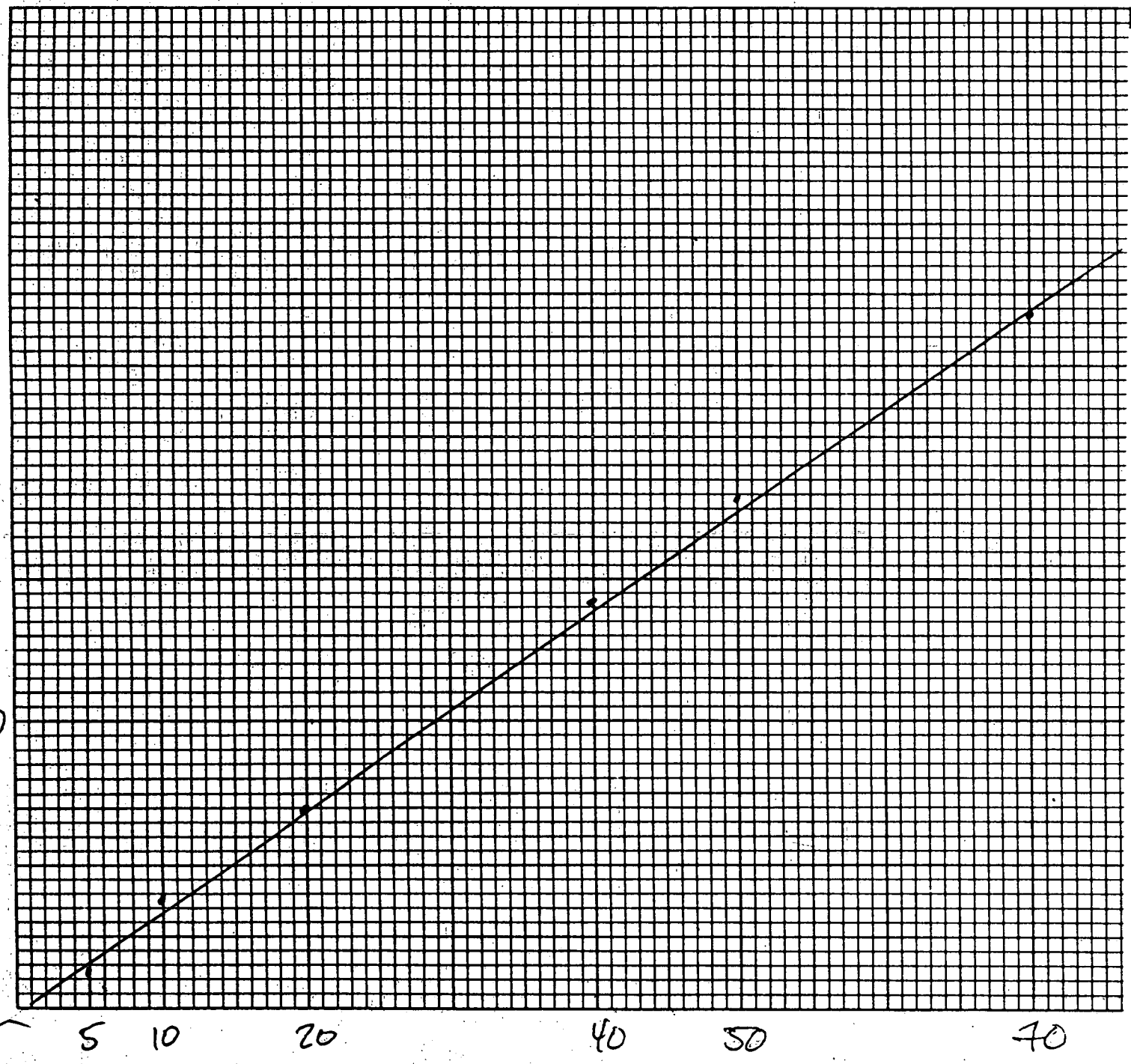
1	0.045	Stds.
2	0.085	
3	0.122	
4	0.216	
5	0.420	
6	0.518	
7	0.667	
8	0.863	
9	0.031	

10 Divisions/Inch 5th & 10th Accent
HPBooks—GRAPH PAPER From Your COPIER

9/14/87

A0

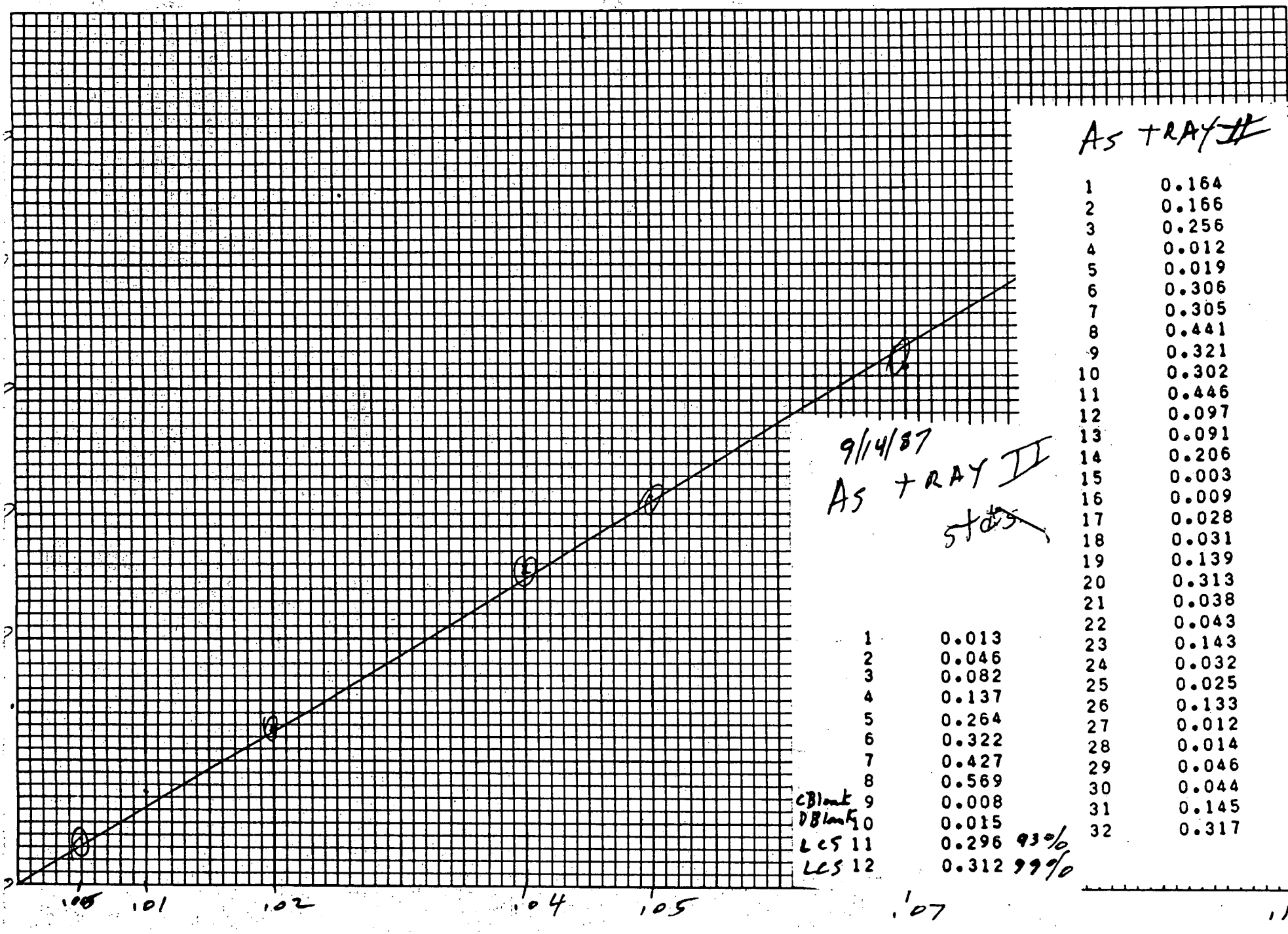
TRAY I



A5 TRAY I

1	0.014
2	0.041
3	0.090
4	0.156
5	0.298
6	0.371
7	0.497
8	0.654
9	0.016
10	0.020
11	0.358
12	0.359
13	0.055
14	0.055
15	0.126
16	0.055
17	0.064
18	0.120
19	0.100
20	0.092
21	0.162
22	0.008
23	0.011
24	0.111
25	0.115
26	0.165
27	0.062
28	0.069
29	0.128

As 9/14/87 TRAY II



9/14/87
As TRAY II
5 + 5

1	0.013		
2	0.046		
3	0.082		
4	0.137		
5	0.264		
6	0.322		
7	0.427		
8	0.569		
CBlank	9	0.008	
DBlank	10	0.015	
LCS	11	0.296	93%
LCS	12	0.312	99%

As TRAY II

1	0.164
2	0.166
3	0.256
4	0.012
5	0.019
6	0.306
7	0.305
8	0.441
9	0.321
10	0.302
11	0.446
12	0.097
13	0.091
14	0.206
15	0.003
16	0.009
17	0.028
18	0.031
19	0.139
20	0.313
21	0.038
22	0.043
23	0.143
24	0.032
25	0.025
26	0.133
27	0.012
28	0.014
29	0.046
30	0.044
31	0.145
32	0.317

Tray No. I Test Tl Pg No. — Date 9/15/87

Analyst [illegible]

Cup	Lab No.	Result**	dil. fact.	abs.	notes
1	Blank				
2	2				
3	6				
4	10				
5	20				
6	40				
7	50				
8	70				
9	cal blank				
10	dig blank				
11	LCS	20.0	100% REC	TV=20	
12	dig LCS	20.0	100% REC	TV=20	
13	759871	<10	RPD NC		Soil 1 BSA 0819785
14	dup 871	<10			
15	+20 871	12.5	63% Rec		
16	871	<10	NC		Soil 1 BSA 0819785
17	dup 871	<10			
18	+20 871	13.5	68% Rec		
19	+50 871	27.0	digested	54% Rec	
20	875	<10	NC		Soil 2 BSA 0819786
21	dup 875	<10			
22	+20 875	15.0	75% Rec		
23	cal blank	<10			
24	dig blank	<10			
25	879	<10	NC		Soil 3 BSA 0819787
26	dup 879	<10			
27	+20 879	15.0	75% Rec		
28	883	<10	NC		Soil 4 BSA 0819788
29	dup 883	<10			
30	+20 883	15.0	75%		

Tray No. II Test T1 Pr No ___ Date 9/15/87

Analyst [illegible]

Cup	Lab No.	Result	dil. fact.	abs.	notes
1	759887	<10	NC		Soil 5 BSA 0819789
2	dup 887	<10			
3	+20 887	16.0	80% rec		
4	cal blank	<10			
5	dig blank	<10			
6	891	<10	DILUTE		GW1 BSA 08197890
7	dup 891	<10			
8	+20 891	4.0	20% rec		
9	891	<10	DILUTE		GW1 BSA 08197890
10	dup 891	<10			
11	+20 891	3.0	15% rec		
12	+50 891	5.0	digested	50% rec	
13	895	<10	NC		SW1 BSA 08197991
14	dup 895	<10			
15	+20 895	11.0	55% rec		
16	cal blank	<10			
17	dig blank	<10			
18	899	<10	NC		SW2 BSA 08197992
19	dup 899	<10			
20	+20 899	11.5	58% rec		
21	903	<10	NC		Field blank
22	dup 903	<10			
23	+20 903	22.0	110% rec		
24	941	<10	NC		Field blank
25	dup 941	<10			
26	+20 941	21.0	105% rec		
27	cal blank	<10			
28	dig blank	<10			
29	LCS	20	100% rec	T.V. = 20	
30					

Tray No. III Test TL Pg No. — Date 9/15/87

Analyst [illegible]

Cup	Lab No.	Result*	dil. fact.	abs.
1	759942	<10	NC	
2	dup 942	<10		Trip Blank
3	+20 942	21.5	108% rec	
4	937	<10	NC	
5	dup 937	<10		MW-2
6	+20 937	19.0	95% rec	
7	937	<10	NC	
8	dup 937	<10		MW-2
9	+20 937	19.5	98% rec	
10	+50 937	37.0	7% digested	
11	calblank	<10		
12	digblank	<10		
13	938	<10	NC	
14	dup 938	<10		MW-3C
15	+20 938	19.5	98%	
16	760288	<10	NC	
17	dup 288	<10		
18	+20 288	16.0	80%	
19	288	<10	NC	Soil 2
20	dup 288	<10		
21	+20 288	14.0	70%	
22	+50 288	13.0	65%	
23	calblank	<10		
24	digblank	<10		
25	292	<10	NC	
26	dup 292	<10		Soil 3
27	+20 292	15.0	75%	
28	296	<10	NC	
29	dup 296	<10		Soil 4
30	+20 296	12.0	60%	

TL Tray 3 Final 9/15/87

1	0.000
2	0.000
3	0.209
4	0.003
5	0.003
6	0.189
7	0.002
8	0.002
9	0.192
10	0.363
11	-0.000
12	0.001
13	0.002
14	0.003
15	0.196
16	0.001
17	0.000
18	0.156
19	-0.000
20	-0.000
21	0.143
22	0.128
23	-0.002
24	-0.003
25	-0.001
26	-0.001
27	0.149
28	-0.000
29	0.001
30	0.118

Soil 4

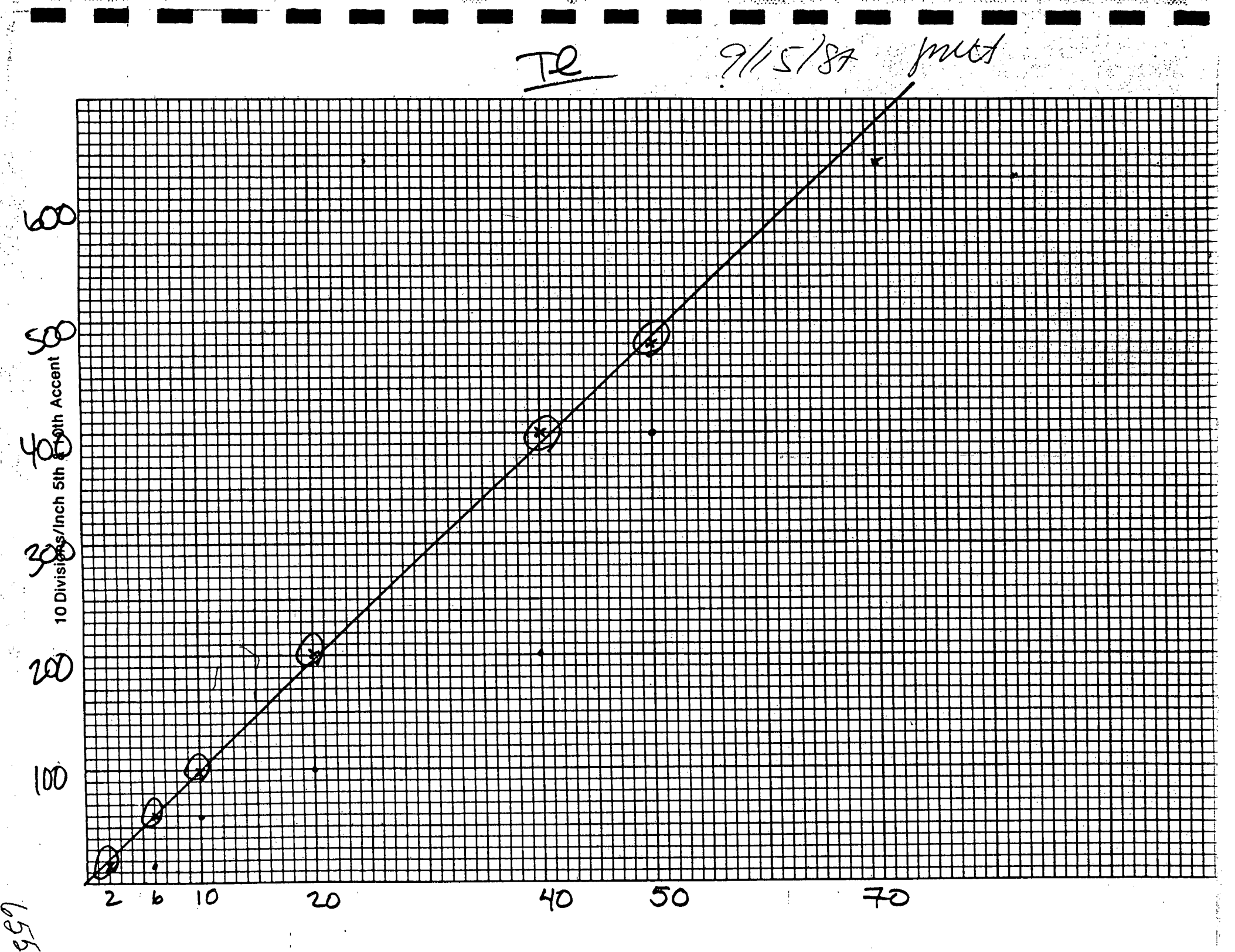
Tray No. IV Test TL Pg No. — Date 9/15/87

Cup	Lab No.	Result	dil. fact.	abs.	
1	760300	<10	>NC	Soil 7	
2	dup 300	<10			
3	trip 300	12.0	60%		
4	calblank	<10			
5	digblank	<10			
6	304	<10	>NC		
7	dup 304	<10		Soil 8	
8	trip 304	12.5	63%		
9	308	<10	>NC		
10	dup 308	<10		Soil 9	
11	trip 308	18.0	90%		
12	312	<10	>NC		
13	dup 312	<10		FIELD BLK	
14	trip 312	18.0	95%		
15	calblank	<10			
16	digblank	<10			
17	LCS	21.0	105	TV=20	
18					
19	769891	<100	(10)	>NC	
20	891	<100	(10)		
21	trip 891	11.0	(10) 55%		
22					
23					
24					
25					
26					
27					
28					
29					
30					

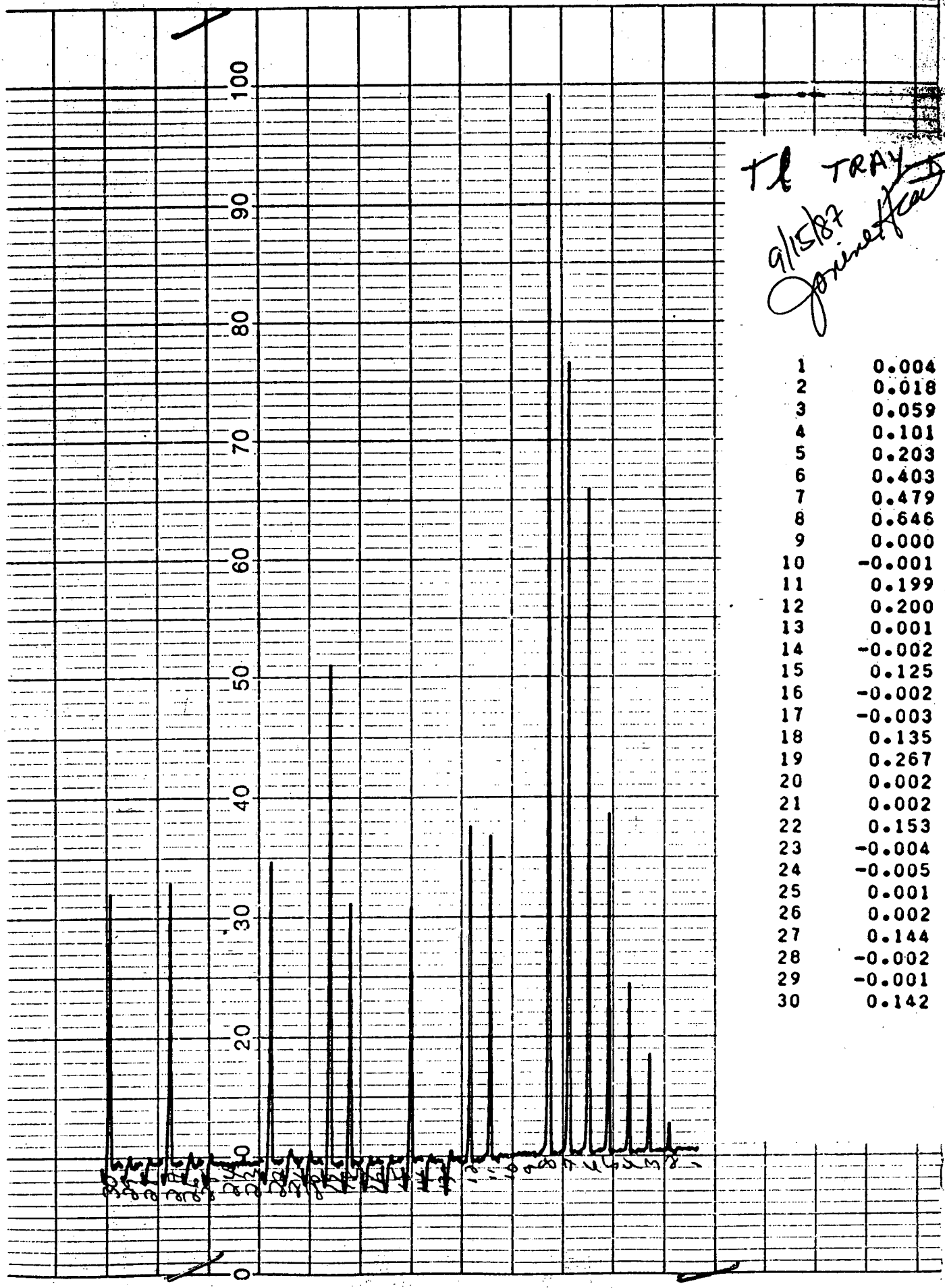
Tray IV
9/15/87

1	0.004
2	0.004
3	0.119
4	0.002
5	0.003
6	0.002
7	0.002
8	0.125
9	0.005
10	0.003
11	0.178
12	0.002
13	0.001
14	0.185
15	0.001
16	0.001
17	0.204

19	0.001
20	0.002
21	0.109


TR
9/15/87 jmct
600
500
400
300
200
100
10 Divisions/Inch 5th Accent
2
6
10
20
40
50
70

PERK



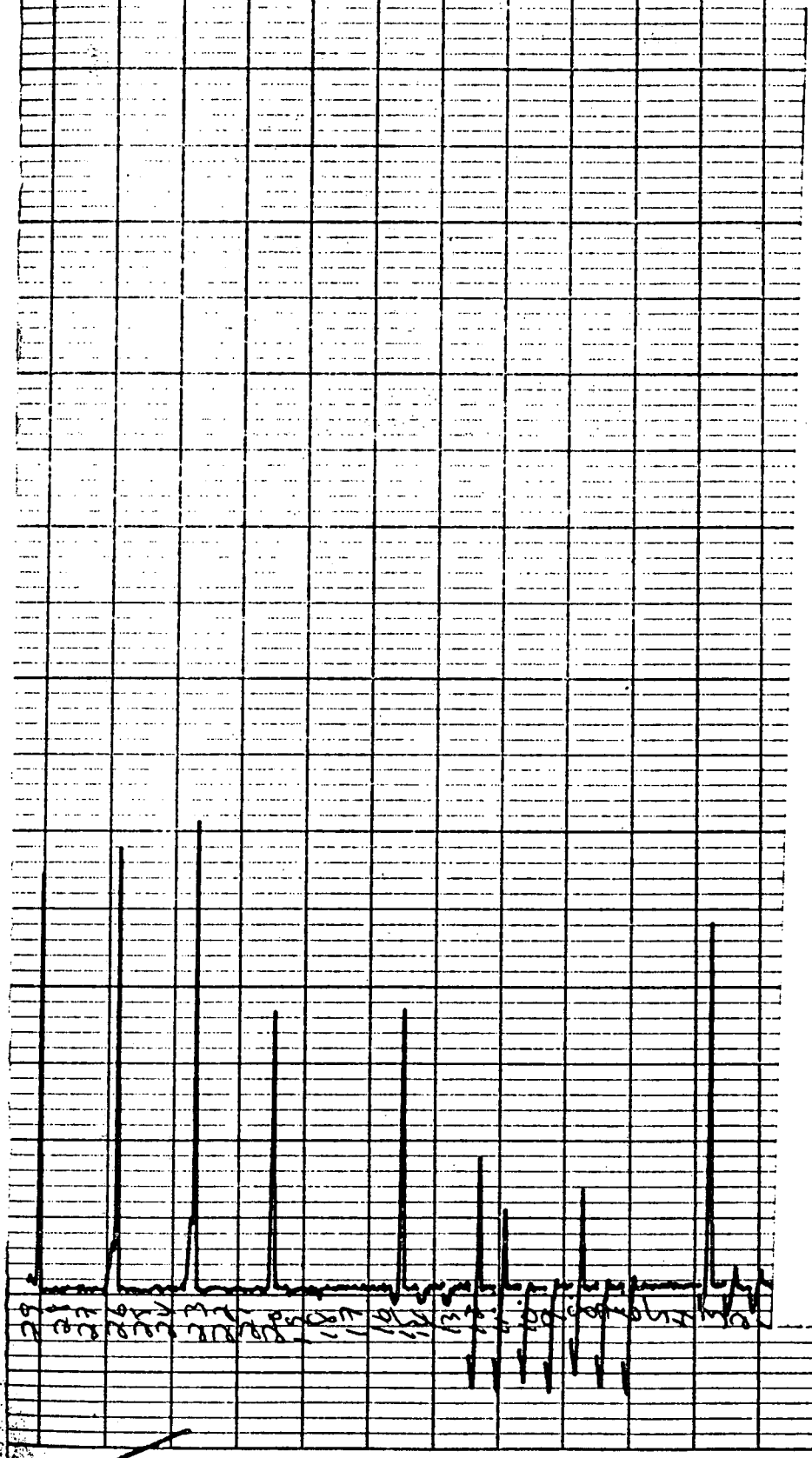
Tl TRAY I
9/15/87
Jonine Hart

1	0.004
2	0.018
3	0.059
4	0.101
5	0.203
6	0.403
7	0.479
8	0.646
9	0.000
10	-0.001
11	0.199
12	0.200
13	0.001
14	-0.002
15	0.125
16	-0.002
17	-0.003
18	0.135
19	0.267
20	0.002
21	0.002
22	0.153
23	-0.004
24	-0.005
25	0.001
26	0.002
27	0.144
28	-0.002
29	-0.001
30	0.142

656

PERKIN-ELMER Chart No. CP32859-0

TR Tray II
Jonine Ho
9/15/87

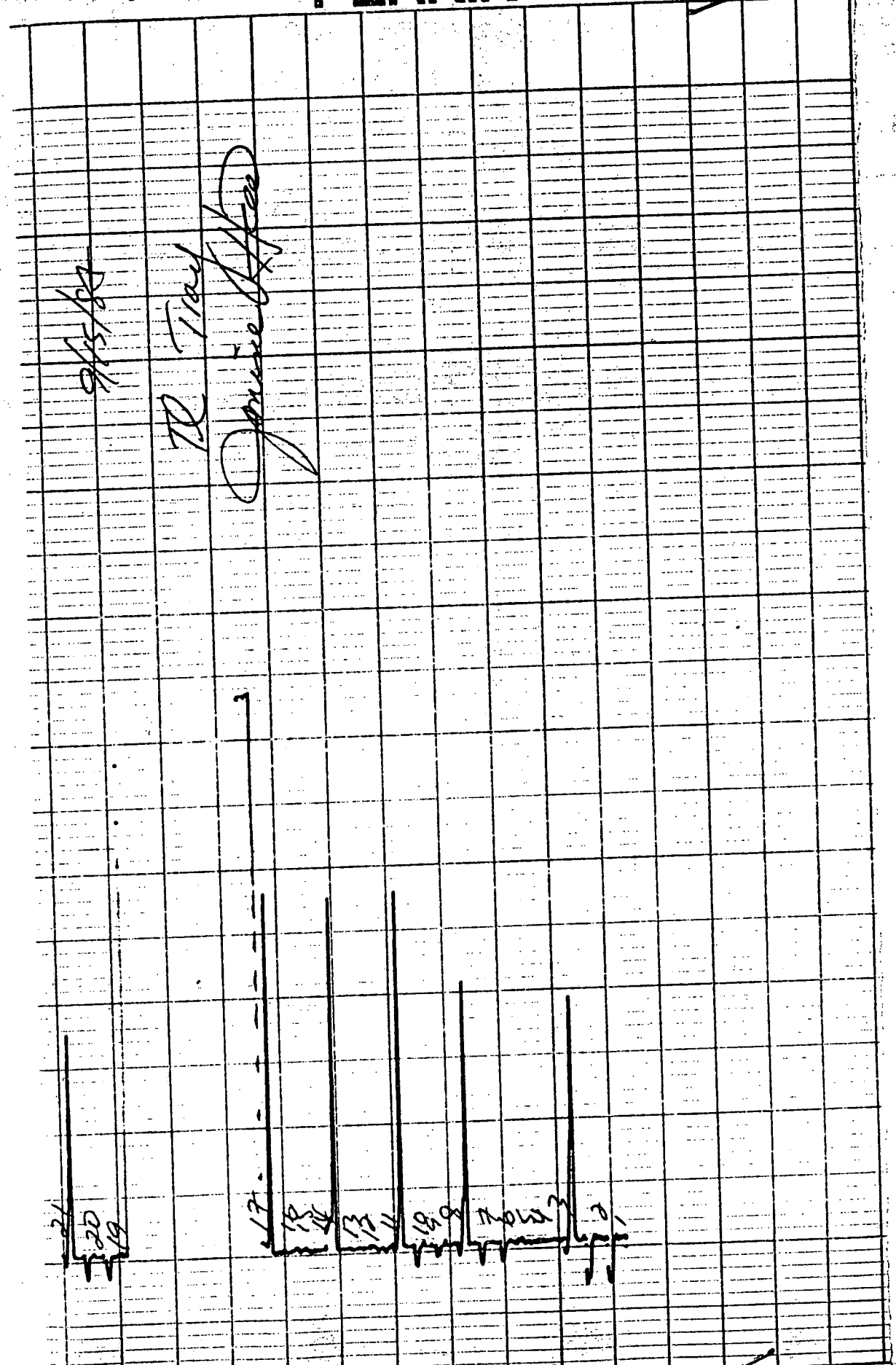


1	0.008
2	0.009
3	0.154
4	0.002
5	0.003
6	0.006
7	0.005
8	0.041
9	0.005
10	0.004
11	0.031
12	0.052
13	0.002
14	0.001
15	0.113
16	0.001
17	0.001
18	0.001
19	0.001
20	0.116
21	0.001
22	0.001
23	0.213
24	0.001
25	0.000
26	0.204
27	0.001
28	0.002
29	0.203

CP32859-0

658

PERKIN-ELMER Chart No.



659

HOLZMACHER, McLENDON & MURRELL, P. C. / H2M CORP.
CONSULTING ENGINEERS

ENGINEERING COMPUTATIONS

SHEET ____ OF ____
PROJECT NO. ____

CLIENT ____ PROJECT ____

SUBJECT ____ BY ____ DATE ____ CHECKED ____ DATE 9/8/87

Jamesville

NJ TRANSIT

METALS DILUTION FACTORS

759871 $\frac{100ml}{1g}$ ÷ .59 = 170

759875 $\frac{100ml}{1g}$ ÷ .81 = 123

759879 $\frac{100ml}{1g}$ ÷ .82 = 122

759883 $\frac{100ml}{1g}$ ÷ .87 = 115

759887 $\frac{100ml}{1g}$ ÷ .71 = 141

TAKE mg/l x DILUTION FACTOR = mg/1g

660

CALCULATIONS FOR MG/KG DRY WT. RESULTS

$$\frac{(\text{mg/l})(\text{volume l})}{(\text{kg})(\%\text{TS}/100)}$$

↓

$$\frac{(\text{mg/l})(\text{ml})}{(\text{g})(.\text{TS})}$$

↓

$$\frac{\text{ml}}{\text{g}} \times \text{mg/l} \div .\text{TS}$$

↓

$$\left\{\frac{\text{ml}}{\text{g}} \div .\text{TS}\right\} \times \text{mg/l}$$

↓

$$= \text{DF} \times \text{mg/l}$$

ALL DILUTION FACTORS ARE CALCULATED ACCORDINGLY. SAMPLE RESULTS WERE THAN MULTIPLIED BY THAT FACTOR.

ANALYST: EHR

DATE: 9.1.87

PHENOLS

	CLIENT	LAB NO.	ML SAMPLE	%T	ug	ug/l
1.	BSA0819785 NJ DEP	759871	10g → 500ml	90		9
2.	BSA0819786	759875	10g - 500ml	89		10
3.	BSA0819787	759879	10g - 500ml	66		35
4.	BSA0819788	759883	10g - 500ml	86		13
5.	BSA0819789	759887	10g - 500ml	90		9
6.	BSA0819890	759891	100 → 500ml	63	40	200
7.	BSA0819791	759895	500ml	89		10
8.	BSA0819792	759899	500ml	95		4
9.	Field Blank	759903	500ml	99		<1
10.	CAL Blank		500ml	100		<1

DUPLICATE LAB# 759871 mlsample 10g → 500ml %T 90 %RPD 0 ug/l 9

DUPLICATE

LAB # 759891 ML SAMPLE 100 → 500 %T 61 %RPD 4.9 ug/l 62

SPIKE LAB# 759871 ML SAMPLE 10g → 500ml %T 72 ug ____ ug/l 28

SPIKE

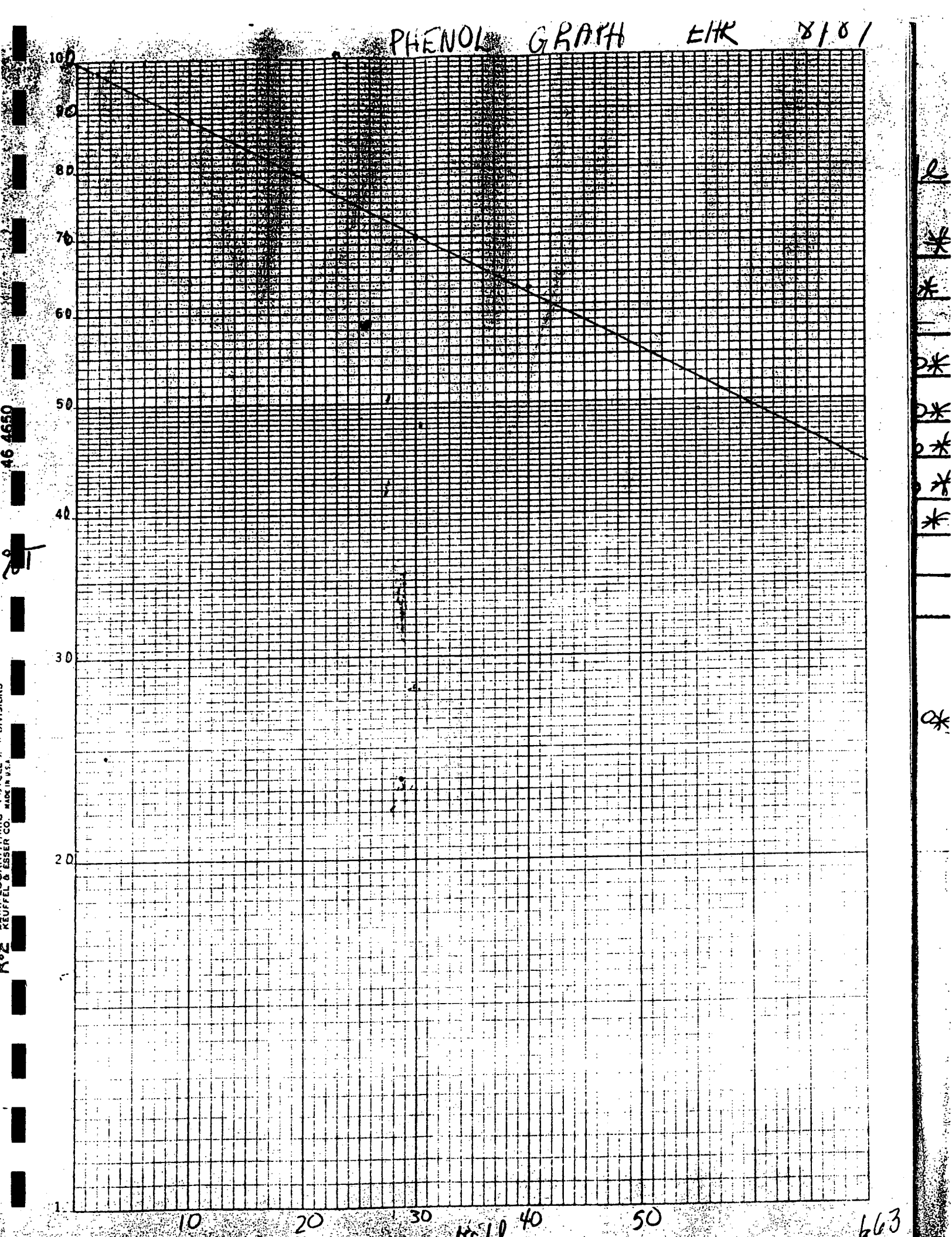
LAB # 759891 ML SAMPLE 100 → 500 %T 50 ug ____ ug/l 59

759891
MICROGRAMS SPIKED 20 % RECOVERY 95

759871
MICROGRAMS SPIKED 20 % Recovery 95

STANDARD 1ml = 10ug

1. ML STANDARD 2 %T 79 %Rec 100 ug/l 20
2. ML STANDARD 2 %T 80 %Rec 95 ug/l 19


PHENOL GRAPH EHK 8/81
100
90
80
70
60
50
40
30
20
1
10
20
30
40
50

ANALYST [illegible]

e No. 8

NJDEP CLP

TEST: CN

DATE 8/27/87

CLIENT	LAB No	m/s sample Distilled	m/s absorbing sol'n	%T	µg	mg/l	NOTES	FRCN
4 ml of 1:5 → 500	40 mg/l STANDARD	500	50	71.1	18.5	37*	$\frac{18.5 \otimes 1000}{500} \otimes \frac{50}{50} = 37$ *	93% REC
BLANK	BLANK	500	50	99.7	—	<10*		
5 mg (CRDL) STANDARD	1 ml of 1:5 → 250	—	50	90.1	5.5	—	$\frac{5.5 \text{ mg}}{5.0} \otimes 100 = 110\%$	110% REC
50 mg (CRDL) STANDARD	10 ml of 1:5 → 250	—	50	35.4	57	—	$\frac{57 \text{ mg}}{50 \text{ mg}} \otimes 100 = 114\%$	114% REC
NJDEP	759871	4.9961g → 500	50	90.9	—	<10*	K-5100 SOIL 1 MS/MSD; T.S. = 51%; $\frac{<50 \otimes 50/50}{5 \otimes .51} = 1.96$ mg/kg DRY WT	
NJDEP (DUPLICATE)	759871	4.9964g → 500	50	92.1	—	<10*	K-5100 SOIL 1 MS/MSD; <1.96 mg/kg DRY WT.	Δ = 0
NJDEP (100 mg/l SPIKE)	759871	4.9979g → 500	~~50~~ 20	73.0	17.2	86*	K-5100 SOIL 1 MS/MSD; $\frac{17.2 \otimes 1000}{500} \otimes \frac{50}{20} = 86$*	86% REC
NJDEP	759875	5.0078g → 500	50	99.1	—	<10*	K-5102 SOIL 2 T.S. = 81%; $\frac{<5.0 \otimes 50/50}{5 \otimes .81} = <1.23$ mg/kg DRY WT.	
NJDEP	759879	5.0029g → 500	50	99.2	—	<10*	K-5105 SOIL 3 T.S. = 82%; $\frac{<5.0 \otimes 50/50}{5 \otimes .82} = <1.22$ mg/kg DRY WT.	
NJDEP	759883	5.0081g → 500	50	99.1	—	<10*	K-5107 SOIL 4 T.S. = 83%	
NJDEP	759887	5.0045g → 500	50	100.8	—	<10*	K-5109 SOIL 5 T.S. = 71%; $\frac{5.0 \otimes 50/50}{5 \otimes .71} = <1.4$ mg/kg DRY WT.	
NJDEP	759891	500	50	94.5	—	<10*	H-5105	
NJDEP	759895	500	50	99.6	—	<10*	H-5102	
NJDEP (DUPLICATE)	759891	500	50	98.2	—	<10*	H-5105	Δ = 0
NJDEP (100 mg/l SPIKE)	759891	500	20	73.3	17.0	85*	H-5100; $\frac{17.0 \otimes 1000}{500} \otimes \frac{50}{20} = 85$*	85% REC

$$\% REC = \frac{\text{SPIKED RESULT} - \text{DUPLICATE}}{\text{SPIKED AMT}} \times 100$$

664

e No. 9

NJDEP CLP

TEST: CN

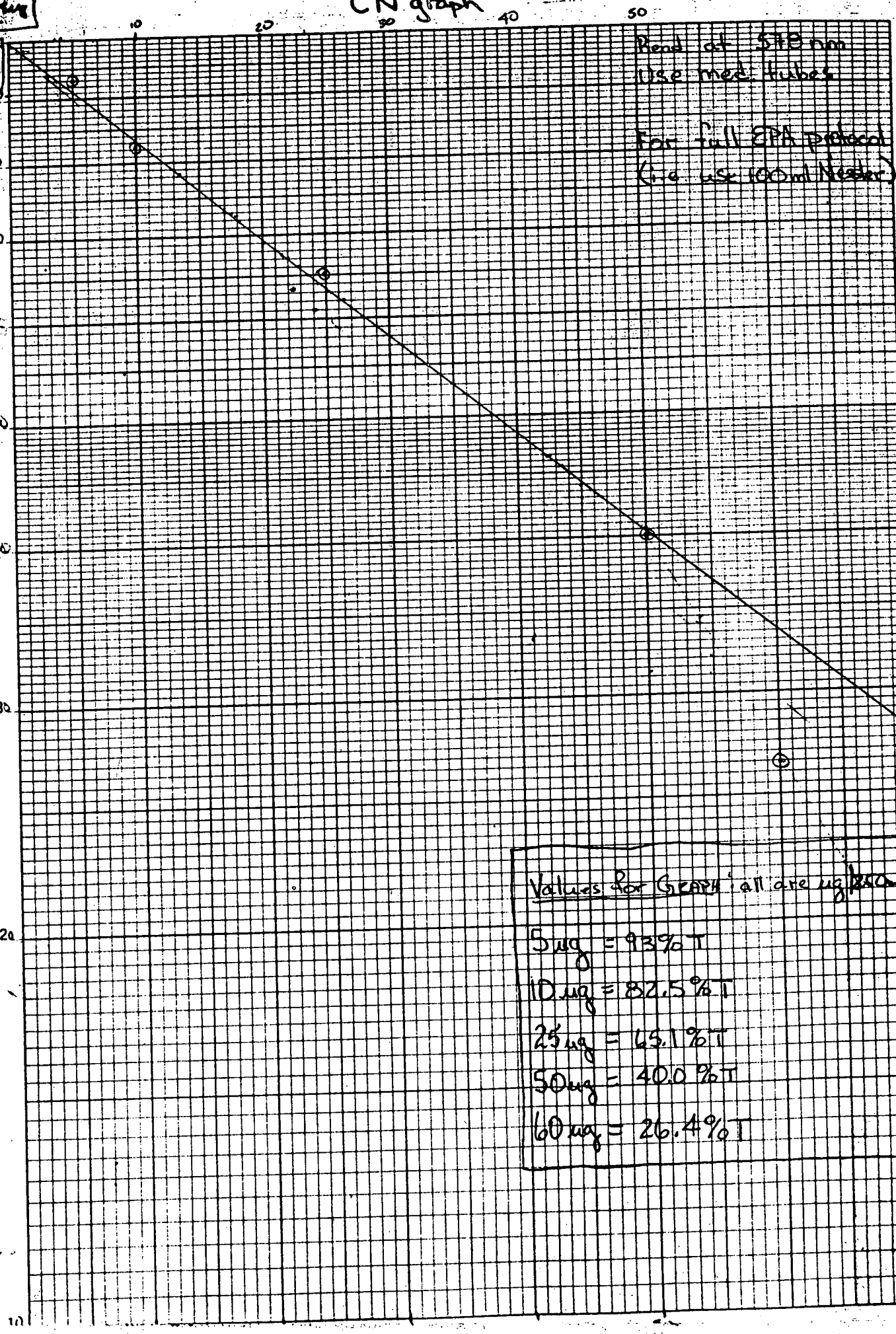
ANALYST WAYNE KEMPSKI

DATE 8/27/87

	CLIENT	LAB NO	ml sample Distilled	ml absorbing sol'n	%T	µg	mg/l	NOTES	FRCN
1	NJDEP	759899	500	50	100.6	—	<10*	H-5104	
2	NJDEP	759903	500	50	100.0	—	<10*	H-5101	
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

$$\%\,REC = \frac{SPIKED\ RESULT - DUPLICATE}{SPIKED\ AMT} \times 100$$

CN graph



Read at 578 nm
Use med. tubes

For full EPA protocol
(i.e use 100ml Nessler)

Values for Graph: all are ug/100ml

5 ug = 93% T

10 ug = 82.5 % T

25 ug = 65.1% T

50 ug = 40.0 % T

60 ug = 26.4% T

N/S LAB # GF 758998 8/14/87

% TS = 85% ✓ | % TVS =

initial wt.	dry wt.	dry wt.
- tare wt.	- tare wt.	- IGNITED WT.
sample wt.	solid wt.	volatile wt.
3.6700	3.2645	
- 1.0105	- 1.0105	-
2.6595	2.254	

LAB # 758996 8/14/87 K7A

% TS = 82% ✓ | % TVS =

initial wt.	dry wt.	dry wt.
- tare wt.	- tare wt.	- IGNITED WT.
sample wt.	solid wt.	volatile wt.
5.7067	4.87359	
- 1.0015	- 1.0015	-
4.7052	3.872	

8-24-87 LAB # 759891 ✓CLP #WD *

% TS = < 1 % ✓ | % TVS =

initial wt.	dry wt.	dry wt.
- TARE WT.	- tare wt.	- IGNITED WT.
sample wt.	solid wt.	Volatile wt.
43.3837	24.3559	
- 24.1863	- 24.1863	-
19.1974	0.1696	

LAB # 759871 #GF 8/24

% TS = 51% ✓ | % TVS =

initial wt.	dry wt.	dry wt.
- TARE WT.	- tare wt.	- IGNITED WT.
sample wt.	solid wt.	Volatile wt.
9.0056	5.1224	
- 1.0128	- 1.0128	-
7.9928	4.1096	

Jim LAB # 8/19/87 759902 758762

% TS = 4% | % TVS = 62%

initial wt.	dry wt.	dry wt.
- tare wt.	- tare wt.	- ignited
sample wt	solid wt.	Volatile w
46.4251	24.3605	24.360
- 23.3506	- 23.3506	- 23.732
23.0745	1.0099	.6276

LAB # 759299

% TS = 95% ✓ | % TVS =

initial wt.	dry wt.	dry wt.
- tare wt.	- tare wt.	- IGNITED
sample wt.	solid wt.	Volatile wt
7.7152	7.316	
- 0.9642	- 0.9642	-
6.751	6.3518	

8/5/24 LAB # 759891 DUPLICATE

% TS = < 1 0/0 | % TVS =

initial wt.	dry wt.	dry wt
- tare wt.	- tare wt.	- IGNITED
sample wt.	solid wt.	Volatile wt
19.4740	9.8923	
- 9.8012	- 9.8012	-
9.6728	0.0911	

AM LAB # 759871 Duplicate

% TS = 59% | % TVS =

initial wt.	dry wt.	dry wt
- tare wt.	- tare wt.	- IGNITED
sample wt.	solid wt.	Volatile w
19.6317	12.0652	
- 1.0015	- 1.0015	-
18.6302	11.0637	

pb. KLK 8/24

LAB # 759879

% TS = 82% ✓	% TVS =
initial wt.	dry wt.
- tare wt.	- tare wt.
sample wt.	solid wt.
7.4748	6.3408
- 1.0020	- 1.0020
6.4728	5.3388

dry wt.
- IGNITED WT.
volatile wt.
-

8/24/87 LAB # 759875 #A

% TS = 81% ✓	% TVS =
initial wt.	dry wt.
- tare wt.	- tare wt.
sample wt.	solid wt.
12.3178	10.1307
- 0.9870	- 0.9870
11.3308	9.1437

dry wt.
- IGNITED WT.
volatile wt.
-

LAB # 759126 *R

% TS = <1% ✓	% TVS = 43% ✓
initial wt.	dry wt.
- TARE WT.	- tare wt.
sample wt.	solid wt.
38.6037	25.6290
- 25.24464	- 25.5399
13.3573	0.0891

dry wt.
- IGNITED WT.
volatile wt.
25.6290
- 25.5908
0.0382

LAB # 759333 ✓

% TS = 3% ✓	% TVS = 59% ✓
initial wt.	dry wt.
- TARE WT.	- tare wt.
sample wt.	solid wt.
41.3652	25.6770
- 25.5399	- 25.24664
15.8253	0.4306

dry wt.
- IGNITED WT.
Volatile wt.
25.6770
- 25.3988
0.2781

SMK CLP

LAB # 759887 8/24/87

% TS = ✓71%	% TVS =
initial wt.	dry wt.
- tare wt.	- tare wt.
sample wt	solid wt.
11.6940	8.6186
- 1.0056	- 1.0056
10.6884	7.613

dry wt.
- ignited wt
Volatile wt.
-

LAB # #100 759883 AB.

% TS = 87% ✓	% TVS =
initial wt.	dry wt.
- tare wt.	- tare wt.
sample wt.	solid wt.
9.0006	7.9493
- 1.0037	- 1.0037
7.9969	6.9456

dry wt.
- IGNITED WT
Volatile wt.
-

LAB # 759332 *O

% TS = ? 9% ✓	% TVS = 70%
initial wt.	dry wt.
- tare wt.	- tare wt.
sample wt.	solid wt.
40.9419	30.7829
- 29.7827	- 29.7827
11.1592	1.0000

dry wt
- IGNITED WT
Volatile wt.
30.7829
- 30.0863
0.6966

LAB #

% TS =	% TVS =
initial wt.	dry wt.
- tare wt.	- tare wt.
sample wt.	solid wt.
-	-

dry wt.
- IGNITED WT
Volatile wt
-

DIGESTIONS

PG. Nº ____

DATE	ANALYST	SAMPLE #	DIGESTION TYPE	INITIAL MASS	INITIAL VOLUME	DILUTION VOLUME (FINAL VOLUME)	SPIKE	REMARKS NJ. DEP
8/24/87	MAW	759871	Flame	1.0g	/	100ml		N.J. Transit
		871	Furnace	1.0g	/	100ml		Conrail meadows Yard
		871	Flame	1.0g	/	100ml	Dup.	
		871	Furnace	1.0g	/	100ml	Dup.	
		871	Flame	1.0g	/	100ml	Spike	
		871	Furnace	1.0g	/	100ml	Spike	
		759875	Flame	1.0g	/	100ml		
		875	Furnace	1.0g	/	100ml		
		759879	Flame	1.0g	/	100ml		
		879	Furnace	1.0g	/	100ml		
		759883	Flame	1.0g	/	100ml		
		883	Furnace	1.0g	/	100ml		
		759887	Flame	1.0g	/	100ml		
		887	Furnace	1.0g	/	100ml		
		method Blank	Flame	/	100ml	100ml		
		method Blank	Furnace	/	100ml	100ml		
		LCS	Flame	/	100ml	100ml		
		LCS	Furnace	/	100ml	100ml		
		759891	Flame	/	100ml	100ml		
		891	Furnace	/	100ml	100ml		
		759891	Flame	/	100ml	100ml	Dup.	
		891	Furnace	/	100ml	100ml	Dup.	
		891	Flame	/	100ml	100ml	Spike	
		891	Furnace	/	100ml	100ml	Spike	
		759895	Flame	/	100ml	100ml		
		895	Furnace	/	100ml	100ml		

DIGESTIONS

PG. NO. ____

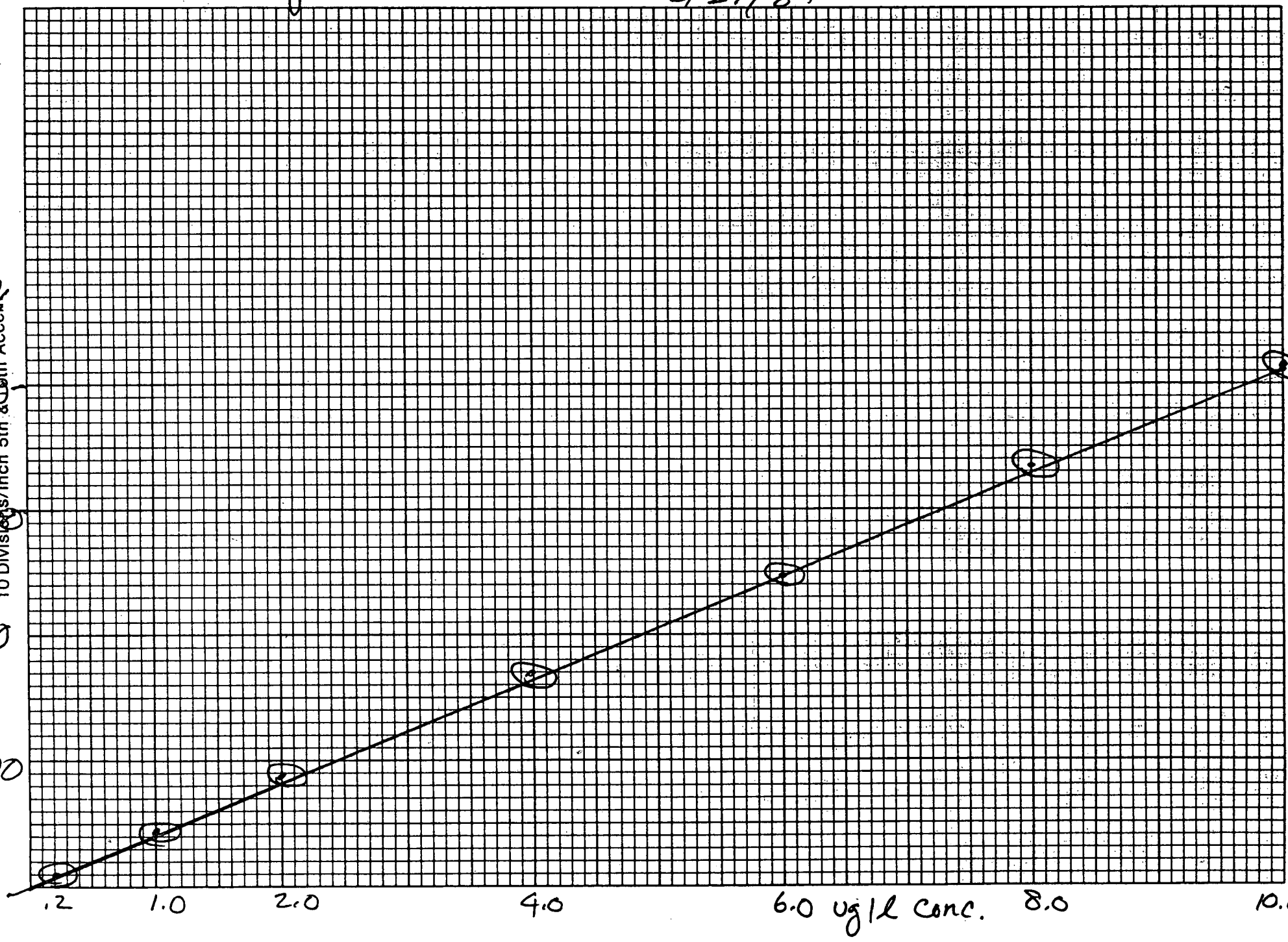
DATE	ANALYST	SAMPLE #	DIGESTION TYPE	INITIAL MASS	INITIAL VOLUME	DILUTION VOLUME (FINAL VOLUME)	SPIKE	REMARKS
8/24/87	MAW	759899	Flame	/	100ml	100ml		N.J. Transit
		899	Furnace	/	100ml	100ml		
		759903	Flame	/	100ml	100ml		
		903	Furnace	/	100ml	100ml		
8/27/87		759941	Flame	/	100ml	100ml		T. of South Hempstead N. Sea Landfill
		941	Furnace	/	100ml	100ml		
		759942	Flame	/	100ml	100ml		
		942	Furnace	/	100ml	100ml		
		759937	Flame	1.00g	/	100ml		
		937	Furnace	1.00g	/	100ml		
		937	Flame	1.00g	/	100ml	Dup.	
		937	Furnace	1.00g	/	100ml	Dup.	
		937	Flame	1.00g	/	100ml	Spike	
		937	Furnace	1.00g	/	100ml	Spike	
		759938	Flame	1.00g	/	100ml		
	↓	938	Furnace	1.00g	/	100ml		
		method blank	Flame	—	100ml	100ml		
		method blank	Furnace	—	100ml	100ml		
		LCS	Flame	/	100ml	100ml		
		LCS	Furnace	/	100ml	100ml		↓
8/29/87	MAW	759388	Flame	.0075g	/	100ml		S. Farmingdale Hall District
		388	Furnace	.0075g	/	100ml		"
		760288	Flame	1.00	/	100ml		N.J. DEP
		288	Furnace	1.00	/	100ml		
		760288	Flame	1.00	/	100ml	Dup.	
↓	↓	288	Furnace	1.00	/	100ml	Dup.	↓

Tray No. I Test Hg Pg No — Date 8/27/87
Analyst JMA

Cup	Lab No.	Result*	dil. fact.	abs.	notes
1	Blank	<0.2			
2	10			414	
3	8			338	
4	6			252	
5	4			174	
6	2			092	
7	1			046	
8	0.2			012	
9	Blank	<0.2		004	mg/kg
10	LCS	5.0	100% REC	209	
11	759871	2.7	25% RPD	115	BSA 0819785 (1.2)
12	dup 871	2.1		088	
13	trad 871	2.8	10% REC	119	
14	759875	0.6		030	BSA 0819786 (0.4)
15	879	0.4		019	BSA 0819787 (0.2)
16	883	1.6		073	BSA 0819788 (0.7)
17	887	0.9		039	BSA 0819789 (0.7)
18	891	<0.2	RPD NC	014	BSA 08197890
19	dup 891	<0.2		007	
20	trad 891	0.4	40% REC	020	
21	759895	<0.2		007	BSA 08197991
22	899	<0.2		007	BSA 08197992
23	903	<0.2		004	Field blank
24	LCS	5.0	100% REC	214	
25	Blank	<0.2		008	
26	759368	<0.5		018	
27	382	1.9		083	
28	383	5.8		245	
29	602	<0.5		010	
30	688	<0.5		008	

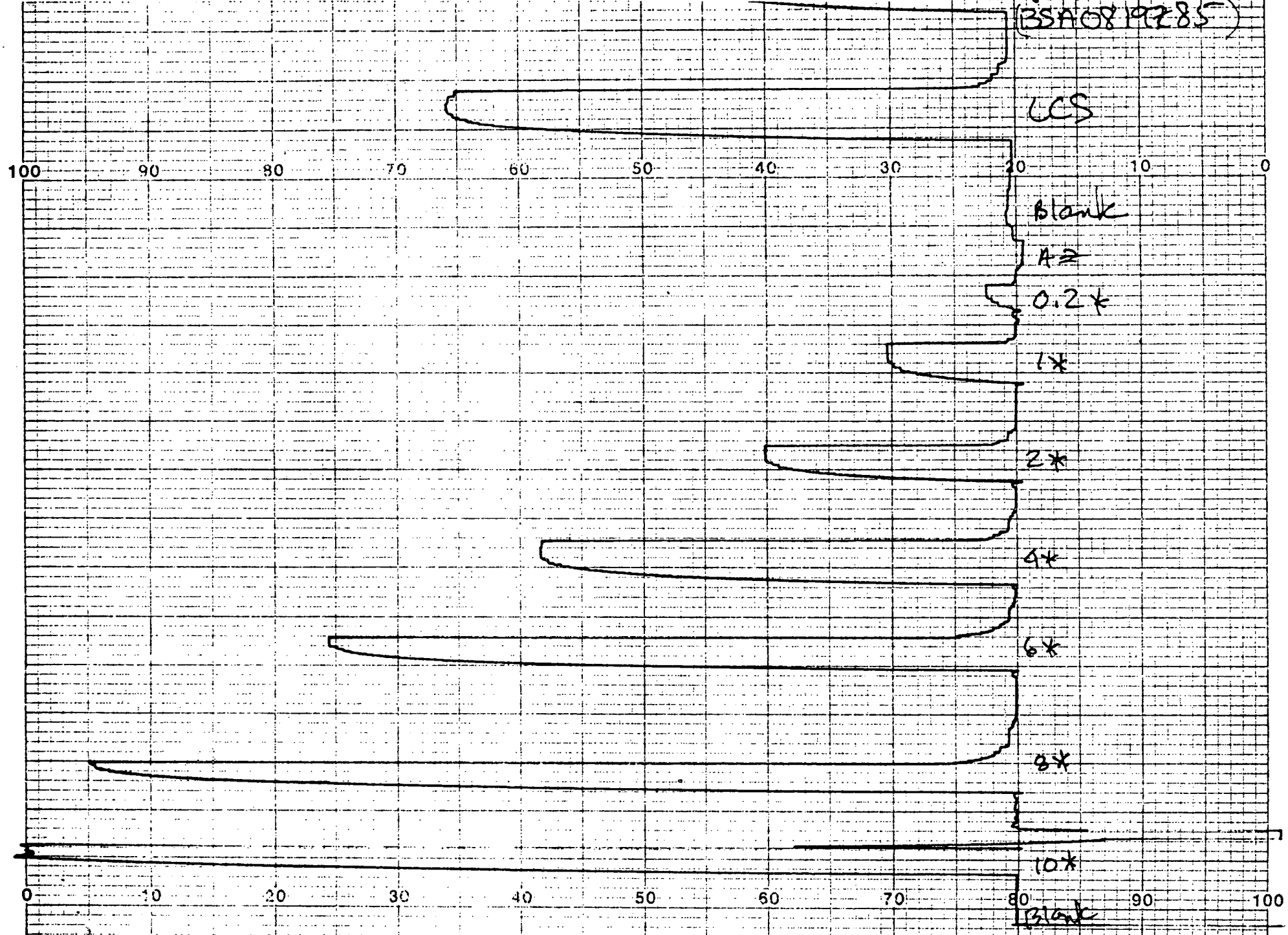
Hg Jonine Hew

8/27/87

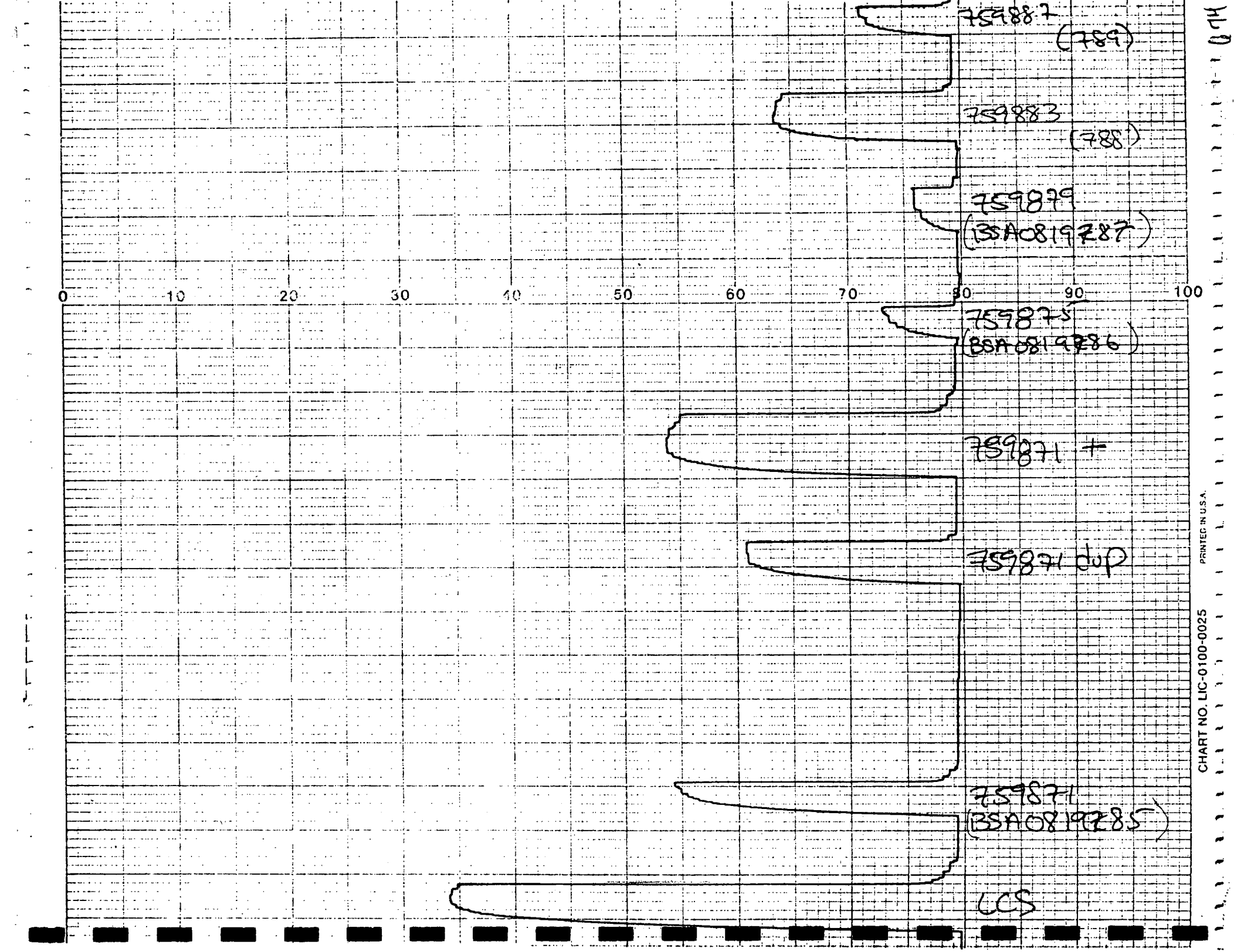


10 Divisions/Inch 5th & 10th Accent

HP Books—GRAPH PAPER From Your COPIER



Hg Janice Lee 8/27/84


759887
(789)
759883
(788)
759879
(BSA0819787)
0
10
20
30
40
50
60
70
80
90
100
759875
(BSA0819786)
759871 +
759871 dup
759871
(BSA0819785)
LCS
CHART NO. LIC-0100-0025
PRINTED IN U.S.A.

Blank
LCS
759903
(Field Blank)
759899
(992)
759895
(991)
759891+
759891 dup
759891
(890)
759887
(789)
100
90
80
70
60
50
40
30
20
10
0
CHART NO. LIC-0100-0025
PRINTED IN U.S.A.

8/26/87
MP

4g

N.J. Transit

Soils

759871 = .43 gm sample

(75) 51 $\frac{100\,ml}{.43\,g} \times .0027\,mg \div .51 = \cancel{1.3}\ 1.3$

(51) 871 dup .45 gm

$\frac{100\,ml}{.45\,g} \times .0021\,mg/l \div .51 = \cancel{0.9}\ 1.0$

(51) 871 + .001 .44 gm

$\frac{100\,ml}{0.44} \times .0028\,mg/l \div .51 = 1.4$

(81) 875 $\frac{100\,ml}{.19\,gm} \times .0006 \div .81 = 0.4$

(82) 879 $\frac{100\,ml}{.24\,gm} \times .0004 \div .82 = 0.2$

(87) 883 $\frac{100\,ml}{.25\,gm} \times .0016 \div .87 = 0.7$

(71) 887 $\frac{100\,ml}{.18\,gm} \times .0009 \div .71 = 0.7$

Analytical Data Package

for

N.J.D.E.P.

at

N.J. Transit / Conrail Meadows Yard

PART III

September 1987

Submitted by:

H2M LABS, INC.

Consulting Engineers, Environmental Scientists, Architects and Planners
Melville, N.Y. Riverhead, N.Y. Fairfield, N.J.

H2M LABORATORY

VII. Standard Data Package for scans:

___X___GC/MS Volatiles
___X___GC/MS Extractables
___X___Pesticides/PCB's
_____GC Volatiles
___X___Metals

1. Initial Calibration
2. Continuing Calibration
3. Evaluation Standards Summary
4. Linearity Evaluation
5. Standard Summary for Pesticides
6. Standard Chromatogram
7. Quantification Reports of Integrams
8. Standard Spectra for Components found in Sample

- Water / Soil
Limit of Detectio

Sample Number
WD

Organics Analysis Data Sheet

Laboratory Name: K2M LABS
Lab Sample ID:)
Sample Matrix: WATER
Data release Authorized by:

Case No.: VOL
QC Report No.: 1
Contract No.: NJDEP
Date Sample Received:

Volatile Compounds
Concentration: (Low) Medium (Circle One)
Date Extracted:
Date Analyzed:
Conc/Dil factor: pH : 6.8
Percent Moisture: (Not Decanted) .....

C.A.S. Number		ug/l or ug/kg (Circle One)	C.A.S. Number		ug/l or ug/kg (Circle One)
74-87-3	Chloromethane	5	78-87-5	1,2-Dichloropropane	1
74-83-9	Bromomethane	5	10061-02-6	Trans-1,3-Dichloropropene	1
75-01-4	Vinyl Chloride	5	79-01-6	Trichloroethene	1
75-00-3	Chloroethane	5	124-48-1	Dibromochloromethane	1
75-09-2	Methylene Chloride	1	79-00-5	1,1,2-Trichloroethane	1
			71-43-2	Benzene	1
			10061-01-5	cis-1,3-Dichloropropene	1
75-35-4	1,1-Dichloroethene	1	110-75-8	2-Chloroethylvinylether	5
75-34-3	1,1-Dichloroethane	1	75-25-2	Bromoform	1
156-60-5	Trans-1,2-Dichloroethene	1	127-18-4	Tetrachloroethene	1
67-66-3	Chloroform	1	79-34-5	1,1,2,2-Tetrachloroethane	1
107-02-2	1,2-Dichloroethane	1	108-88-3	Toluene	1
			108-90-7	Chlorobenzene	1
71-55-6	1,1,1-Trichloroethane	1	100-41-4	Ethylbenzene	1
56-23-6	Carbon Tetrachloride	1	96-50-1	1,2 Dichlorobenzene	1
			541-73-1	1,3 Dichlorobenzene	1
75-27-4	Bromodichloromethane	1	106-46-7	1,4 Dichlorobenzene	1

Data Reporting Qualifiers

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

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

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

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

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

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

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

OPTIONAL FLAGS

N - Compound not present in Calibration File.

6789

INSTRUMENT DETECTION LIMITS

Component	ug/SAMPLE
alpha-BHC	0.03
beta-BHC	0.03
delta-BHC	0.03
gamma-BHC	0.03
Heptachlor	0.03
Aldrin	0.03
Heptachlor Epoxide	0.03
Endosulfan I	0.03
Dieldrin	0.04
4,4'-DDE	0.03
Endrin	0.06
Endosulfan II	0.05
4,4'-DDD	0.06
Endrin Aldehyde	0.06
Endosulfan Sulfate	0.05
4,4'-DDT	0.09
Endrin Ketone	0.06
Methoxychlor	0.40
Chlordane	0.40
Toxaphene	0.90
Aroclor 1016	0.40
Aroclor 1221	0.40
Aroclor 1232	0.40
Aroclor 1242	0.40
Aroclor 1248	0.40
Aroclor 1254	0.40
Aroclor 1260	0.40

LOD

Lab Name : H2M LABS
Case No : SEMI-VOL

Sample Number

ORGANICS ANALYSIS DATA SHEET
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted:
Date Analyzed:
Conc/Dil Factor: 1
Percent Moisture (Decanted) .....

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

C.A.S. Number		ug/l or ug/Kg (Circle One)	C.A.S. Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	3	83-32-9	Acenaphthene	2
111-44-4	bis(-2-Chloroethyl)Ether	2	51-28-5	2,4-Dinitrophenol	8
95-57-8	2-Chlorophenol	3	100-02-7	4-Nitrophenol	8
541-73-1	1,3-Dichlorobenzene	2	132-64-9	Dibenzofuran	2
106-46-7	1,4-Dichlorobenzene	2	121-14-2	2,4-Dinitrotoluene	5
100-51-6	Benzyl Alcohol	3	606-20-2	2,6-Dinitrotoluene	5
95-50-1	1,2-Dichlorobenzene	2	84-66-2	Diethylphthalate	2
95-48-7	2-Methylphenol	3	7005-72-3	4-Chlorophenyl-phenylether	2
39638-32-9	bis(2-chloroisopropyl)Ether	2	86-73-7	Fluorene	2
106-44-5	4-Methylphenol	3	100-01-6	4-Nitroaniline	10
621-64-7	N-Nitroso-Di-n-Propylamine	5	534-52-1	4,6-Dinitro-2-Methylphenol	8
67-72-1	Hexachloroethane	2	86-30-6	N-Nitrosodiphenylamine (1)	2
98-95-3	Nitrobenzene	2	101-55-3	4-Bromophenyl-phenylether	2
78-59-1	Isophorone	2	118-74-1	Hexachlorobenzene	1
88-75-5	2-Nitrophenol	3	87-86-5	Pentachlorophenol	5
105-67-9	2,4-Dimethylphenol	3	85-01-8	Phenanthrene	2
65-85-0	Benzoic Acid	10	120-12-7	Anthracene	2
111-91-1	bis(-2-Chloroethoxy)Methane	5	84-74-2	Di-n-Butylphthalate	2
120-83-2	2,4-Dichlorophenol	3	206-44-0	Fluoranthene	2
120-82-1	1,2,4-Trichlorobenzene	2	129-00-0	Pyrene	2
91-20-3	Naphthalene	2	85-68-7	Butylbenzylphthalate	2
106-47-8	4-Chloroaniline	5	91-94-1	3,3'-Dichlorobenzidine	10
87-68-3	Hexachlorobutadiene	5	56-55-3	Benzo(a)Anthracene	2
59-50-7	4-Chloro-3-Methylphenol	3	117-81-7	bis(2-Ethylhexyl)Phthalate	2
91-57-6	2-Methylnaphthalene	2	218-01-9	Chrysene	2
77-47-4	Hexachlorocyclopentadiene	5	117-84-0	Di-n-Octyl Phthalate	2
88-06-2	2,4,6-Trichlorophenol	5	205-99-2	Benzo(b)Fluoranthene	3
95-95-4	2,4,5-Trichlorophenol	5	207-08-9	Benzo(k)Fluoranthene	3
91-58-7	2-Chloronaphthalene	2	50-32-8	Benzo(a)Pyrene	3
88-74-4	2-Nitroaniline	10	193-39-5	Indeno(1,2,3-cd)Pyrene	3
131-11-3	Dimethyl Phthalate	2	53-70-3	Dibenzo(a,h)Anthracene	3
208-96-8	Acenaphthylene	2	191-24-2	Benzo(g,h,i)Perylene	3
99-09-2	3-Nitroaniline	10			

(1)-Cannot be seperated from diphenylamine

678

LOD

WARNING: FMP -6 on ::
.....

Lab Name : H2M LABS
Case No : SEMI-VOL

Sample Number

ORGANICS ANALYSIS DATA SHEET
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted:
Date Analyzed:
Conc/Dil Factor: 1
Percent Moisture (Decanted) .....

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

C.A.S. Number		ug/L or ug/Kg (Circle One)
108-95-2	Phenol	100 ~~10.N~~
111-44-4	bis(-2-Chloroethyl)Ether	75 ~~10.N~~
95-57-8	2-Chlorophenol	100 ~~10.N~~
541-73-1	1,3-Dichlorobenzene	75 ~~10.N~~
106-46-7	1,4-Dichlorobenzene	75 ~~10.N~~
100-51-6	Benzyl Alcohol	100 ~~10.N~~
95-50-1	1,2-Dichlorobenzene	75 10.N
95-48-7	2-Methylphenol	100 ~~10.N~~
39638-32-9	bis(2-chloroisopropyl)Ether	75 10.N
106-44-5	4-Methylphenol	100 ~~10.N~~
621-64-7	N-Nitroso-Di-n-Propylamine	170 ~~10.N~~
67-72-1	Hexachloroethane	75 10.N
98-95-3	Nitrobenzene	75 10.N
78-59-1	Isophorone	75 10.N
88-75-5	2-Nitrophenol	100 ~~10.N~~
105-67-9	2,4-Dimethylphenol	100 ~~10.N~~
65-85-0	Benzoic Acid	200 ~~50.N~~
111-91-1	bis(-2-Chloroethoxy)Methane	175 ~~10.N~~
120-83-2	2,4-Dichlorophenol	100 ~~10.N~~
120-82-1	1,2,4-Trichlorobenzene	75 10.N
91-20-3	Naphthalene	75 10.N
106-47-8	4-Chloroaniline	175 ~~10.N~~
87-68-3	Hexachlorobutadiene	175 ~~10.N~~
59-50-7	4-Chloro-3-Methylphenol	100 ~~10.N~~
91-57-6	2-Methylnaphthalene	75 10.N
77-47-4	Hexachlorocyclopentadiene	175 ~~10.N~~
88-06-2	2,4,6-Trichlorophenol	175 ~~10.N~~
95-95-4	2,4,5-Trichlorophenol	175 ~~50.N~~
91-58-7	2-Chloronaphthalene	75 10.N
88-74-4	2-Nitroaniline	200 ~~50.N~~
131-11-3	Dimethyl Phthalate	75 10.N
208-96-8	Acenaphthylene	75 10.N
99-09-2	3-Nitroaniline	200 ~~50.N~~

C.A.S. Number		ug/L or ug/Kg (Circle One)
83-32-9	Acenaphthene	~~10.N~~ 75
51-28-5	2,4-Dinitrophenol	~~50.N~~ 200
100-02-7	4-Nitrophenol	~~50.N~~ 200
132-64-9	Dibenzofuran	~~10.N~~ 75
121-14-2	2,4-Dinitrotoluene	~~10.N~~ 75
606-20-2	2,6-Dinitrotoluene	~~10.N~~ 75
84-66-2	Diethylphthalate	~~10.N~~ 75
7005-72-3	4-Chlorophenyl-phenylether	~~10.N~~ 75
86-73-7	Fluorene	~~10.N~~ 75
100-01-6	4-Nitroaniline	~~10.N~~ 75
534-52-1	4,6-Dinitro-2-Methylphenol	~~50.N~~ 200
86-30-6	N-Nitrososdiphenylamine (1)	~~10.N~~ 75
101-55-3	4-Bromophenyl-phenylether	~~10.N~~ 75
118-74-1	Hexachlorobenzene	~~10.N~~ 75
87-86-5	Pentachlorophenol	~~50.N~~ 200
85-01-8	Phenanthrene	~~10.N~~ 75
120-12-7	Anthracene	~~10.N~~ 75
84-74-2	Di-n-Butylphthalate	~~10.N~~ 75
206-44-0	Fluoranthene	~~10.N~~ 75
129-00-0	Pyrene	~~10.N~~ 75
85-68-7	Butylbenzylphthalate	~~10.N~~ 75
91-94-1	3,3'-Dichlorobenzidine	~~20.N~~ 200
56-55-3	Benzo(a)Anthracene	~~10.N~~ 75
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10.N~~ 75
218-01-9	Chrysene	~~10.N~~ 75
117-84-0	Di-n-Octyl Phthalate	~~10.N~~ 75
205-99-2	Benzo(b)Fluoranthene	~~10.N~~ 100
207-08-9	Benzo(k)Fluoranthene	~~10.N~~ 100
50-32-8	Benzo(a)Pyrene	~~10.N~~ 100
193-39-5	Indeno(1,2,3-cd)Pyrene	~~10.N~~ 100
53-70-3	Dibenzo(a,h)Anthracene	~~10.N~~ 100
191-24-2	Benzo(g,h,i)Perylene	~~10.N~~ 100

INITIAL CALIBRATION DATA
VOLATILE COMPOUNDS

Case No. _____ Instrument ID: OWA #1

Laboratory: H2M Labs Inc. Calibration Date: 8/9/87

Contract No. Jersey Central

Maximum % RSD 1s 35%

Laboratory ID	PU7387	PU7388	PU7389		
Compound	RF_{10}	RF_{30}	RF_{150}	RF	% RSD
Chloromethane	4.22	3.84	3.38	3.81	9
Bromomethane	0.258	0.277	0.306	0.280	9
Vinyl chloride	0.882	1.05	1.77	1.23	31
Chloroethane	1.58	1.28	2.02	1.63	23
Methylene chloride	2.58	3.03	2.63	2.75	9
1,1-Dichloroethane	1.81	1.92	2.18	1.97	10
1,1-Dichloroethane	3.03	2.87	3.74	3.21	14
trans-1,2-Dichloroethene	2.08	1.68	1.96	1.89	10
Chloroform	3.73	3.99	4.86	4.19	14
1,2-Dichloroethane	3.67	3.37	4.27	3.77	12
Trichlorofluoromethane	2.71	3.54	3.73	3.33	16
1,1,1-Trichloroethane	0.231	0.190	0.266	0.231	17
Carbon tetrachloride	0.102	0.149	0.079	0.109	33
Bromodichloromethane	0.360	0.279	0.448	0.362	23
1,2-Dichloropropane	0.441	0.412	0.599	0.484	21
trans-1,3-Dichloropropene	0.183	0.160	0.262	0.202	27
Trichloroethene	0.669	0.566	0.702	0.642	12
Dibromochloromethane	0.330	0.256	0.372	0.319	32
1,1,2-Trichloroethane	0.453	0.386	0.524	0.454	15
Benzene	1.63	1.18	1.36	1.39	16
cis-1,3-Dichloropropene	0.179	0.160	0.135	0.158	14
2-Chloroethylvinylether	0.990	0.916	1.14	1.02	11
Bromoform	0.255	0.240	0.315	0.270	15
Tetrachloroethane	0.549	0.516	0.738	0.628	16
1,1,2,2-Tetrachloroethane	0.615	0.674	0.879	0.722	19
Toluene	0.903	0.786	1.10	0.930	17
Chlorobenzene	1.20	1.18	1.39	1.26	9
Ethylbenzene	0.648	0.551	0.716	0.636	17
meta-dichlorobenzene	1.27	1.30	1.22	1.26	3
ortho-dichlorobenzene	1.14	1.37	0.824	1.11	25
para-dichlorobenzene	1.08	1.56	1.06	1.23	23

$\overline{RF}$ - Response Factor (subscript is the amount in µg/L)
RF - Average Response Factor
%RSD - Percent Relative Standard Deviation

Initial Calibration Data
HSL Compounds

Case No: Semi-Volatile BNA Instrument ID: HP#2

Contractor: H2M LABS INC. Calibration Date: 09/09/87

Contract No: NJDEP 9/87

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 35%

Compound	Laboratory ID: >P3384 RF 10.00	>P3382 RF 25.00	>P3383 RF 40.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC	
N-Nitrosodimethylamine	.52660	.36421	.66079	.428	.51720	28.715			
2-Fluorophenol (SS)	.68389	.67582	.63184	.780	.66385	4.220			(Conc=103.8,103.8,103.8)
Phenol	1.39777	1.19616	1.07284	1.029	1.22226	13.420	*		
bis(-2-Chloroethyl)Ether	.88261	.86043	.78799	1.026	.84367	5.865			
Phenol-d6 (SS)	.92701	.89804	.86508	1.026	.89671	3.456			(Conc=101.6,101.6,101.6)
2-Chlorophenol	.85872	.82325	.74803	1.031	.81000	6.978			
1,3-Dichlorobenzene	1.04967	.88419	.80655	1.060	.91347	13.594			
1,4-Dichlorobenzene	1.10166	.94498	.83979	1.075	.96214	13.696	*		
1,2-Dichlorobenzene	1.01367	.91159	.80045	1.121	.90857	11.737			
bis(2-Chloroisopropyl)ether	3.06742	2.50378	2.51916	1.169	2.69679	11.906			
itroso-Di-n-Propylamine	.95108	.82510	.81820	1.208	.86479	8.650		**	
Hexachloroethane	.47529	.42272	.38271	1.202	.42691	10.876			
Nitrobenzene-d5 (SS)	.59846	.60886	.60393	.870	.60375	.862			(Conc=103.8,103.8,103.8)
Nitrobenzene	.75778	.63505	.63952	.873	.67745	10.275			
Isophorone	1.43321	1.21733	1.19538	.919	1.28197	10.253			
2-Nitrophenol	.19623	.12264	.24122	.933	.18670	32.063	*		
2,4-Dimethylphenol	.43283	.41053	.38799	.957	.41045	5.462			
bis(-2-Chloroethoxy)Methane	.74402	.62483	.60365	.972	.65750	11.509			
2,4-Dichlorophenol	.46005	.43972	.40741	.983	.43573	6.093	*		
1,2,4-Trichlorobenzene	.46723	.42163	.37518	.995	.42135	10.924			
Naphthalene	1.40988	1.25618	-	1.003	1.33303	8.153			
Hexachlorobutadiene	.39116	.32861	.27948	1.046	.33308	16.804	*		
4-Chloro-3-Methylphenol	.57951	.54598	.53331	1.134	.55293	4.317	*		
Hexachlorocyclopentadiene	.34210	.32682	.31937	1.189	.32943	3.517		**	
2,4,6-Trichlorophenol	.32246	.32248	.29626	1.208	.31373	4.823	*		
2-Chloronaphthalene	.92958	.81386	.75258	1.235	.83201	10.803			
2-Fluorobiphenyl (SS)	.58790	.63136	.62961	1.225	.61629	3.992			(Conc=105.7,105.7,105.7)
Dimethyl Phthalate	1.09031	.97183	.90565	1.318	.98926	9.457			
Acenaphthylene	1.21963	1.09111	1.04843	1.317	1.11972	7.959			
Acenaphthene	.86348	.77259	.72048	1.355	.78551	9.213	*		

RF - Response Factor (Subscript is amount in ug/mL)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: Semi-Volatile BNA Instrument ID: HP#2

Contractor: H2M LABS INC. Calibration Date: 09/09/87

Contract No: NJDEP 9/87

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 35%

Laboratory ID:	>P3384	>P3382	>P3383					
Compound	RF 10.00	RF 25.00	RF 40.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
2,4-Dinitrophenol	-	.08149	.12446	1.371	.10298	29.504		**
4-Nitrophenol	-	.20435	.19142	1.403	.19789	4.619		**
2,4-Dinitrotoluene	.20091	.22750	.20536	1.403	.21126	6.741		
2,6-Dinitrotoluene	.26124	.25954	.25815	1.327	.25964	.595		
Diethylphthalate	.99060	.84982	.80996	1.463	.88346	10.742		
4-Chlorophenyl-phenylether	.42635	.35916	.32488	1.464	.37013	13.946		
Fluorene	.64980	.63152	.61353	1.456	.63162	2.871		
2,4,6-Tribromophenol (SS)	.24565	.24272	.26096	1.510	.24978	3.923		(Conc=102.9,102.9,102.9)
4,6-Dinitro-2-methylphenol	-	.19157	.22312	.904	.20734	10.760		
N-Nitrosodiphenylamine	.78306	.63350	.59900	.909	.67186	14.563	*	
4-Bromophenyl-phenylether	.46336	.36579	.34897	.950	.39271	15.727		
Hexachlorobenzene	.71492	.55614	.53230	.964	.60112	16.514		
Pentachlorophenol	-	.23828	.26893	.988	.25360	8.547	*	
Phenanthrene	1.40129	1.18895	1.09319	1.003	1.22781	12.843		
Anthracene	1.43052	1.23736	1.16186	1.008	1.27658	10.854		
Di-n-Butylphthalate	1.93895	1.60581	1.58909	1.091	1.71128	11.532		
Fluoranthene	1.45810	1.31329	1.28218	1.147	1.35119	6.948	*	
Terphenyl-d14 (SS)	.87356	.87577	.89427	1.203	.88120	1.291		(Conc=100.1,100.1,100.1)
Benzidine	.20498	.27322	.37109	1.170	.28310	29.493		
Pyrene	1.49948	1.34149	1.31648	1.174	1.38582	7.160		
Butylbenzylphthalate	.92728	.81276	.80077	1.272	.84694	8.245		
3,3'-Dichlorobenzidine	.41051	.42189	.48967	1.325	.44069	9.711		
Benzo(a)Anthracene	1.24984	1.14107	1.24232	1.322	1.21108	5.016		
bis(2-Ethylhexyl)Phthalate	1.21379	1.03026	1.06774	1.350	1.10393	8.784		
Chrysene	1.26609	1.09579	1.16284	1.327	1.17491	7.382		
Di-n-Octyl Phthalate	1.98797	1.78019	1.95685	1.421	1.90834	5.872	*	
Benzo(b)Fluoranthene	1.34134	1.37267	1.67508	1.446	1.46303	12.598		
Benzo(k)Fluoranthene	.95841	.79818	1.11870	1.449	.95843	16.721		
Benzo(a)Pyrene	1.13076	1.14675	1.33492	1.480	1.20414	9.429	*	
Indeno(1,2,3-cd)Pyrene	1.27920	1.37219	1.70164	1.615	1.45101	15.298		

RF - Response Factor (Subscript is amount in ug/mL)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: Semi-Volatile BNA Instrument ID: HP#2

Contractor: H2M LABS INC. Calibration Date: 09/09/87

Contract No: NJDEP 9/87

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 35%

Laboratory ID:	>P3384	>P3382	>P3383					
Compound	RF 10.00	RF 25.00	RF 40.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
Dibenz(a,h)Anthracene	1.31690	1.33715	1.62769	1.619	1.42724	12.183		
Benzo(g,h,i)Perylene	1.37125	1.38630	1.69503	1.651	1.48419	12.313		

RF - Response Factor (Subscript is amount in ug/mL)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

CONTINUING CALIBRATION CHECK
VOLATILE COMPOUNDS

Case No. _____

Laboratory: Ham Labs Inc.

Contract No. NJDEP

Instrument ID: OWA #1

Calibration Date: 8/24/87

Time: 17:20

Laboratory ID: PY7413

Initial Calibration Date: 8/9/87

Maximum %D 15.35%

Compound	RF	RF_{50}	%D
Chloromethane	3.81	3.96	4
Bromomethane	0.280	0.326	16
Vinyl chloride	1.23	1.02	17
Chloroethane	1.63	1.38	15
Methylene chloride	2.75	1.89	31
1,1-Dichloroethene	1.97	2.01	2
1,1-Dichloroethane	3.21	3.21	0
trans-1,2-Dichloroethene	1.89	1.96	4
Chloroform	4.19	3.27	22
1,2-Dichloroethane	3.77	3.50	7
Trichlorofluoromethane	3.33	3.47	4
1,1,1-Trichloroethane	0.231	0.190	18
Carbon tetrachloride	0.109	0.097	11
Bromodichloromethane	0.362	0.279	23
1,2-Dichloropropane	0.484	0.485	0
trans-1,3-Dichloropropene	0.202	0.259	28
Trichloroethene	0.642	0.541	15
Dibromochloromethane	0.319	0.310	3
1,1,2-Trichloroethane	0.454	0.368	19
Benzene	1.39	1.18	15
cis-1,3-Dichloropropene	0.158	0.176	11
2-Chloroethylvinylether	1.02	0.676	34
Bromoform	0.270	0.210	22
Tetrachloroethene	0.621	0.526	15
1,1,2,2-Tetrachloroethane	0.722	0.666	8
Toluene	0.930	0.917	1
Chlorobenzene	1.26	1.34	6
Ethylbenzene	0.636	0.668	5
meta-dichlorobenzene	1.26	0.951	25
ortho-dichlorobenzene	1.11	1.02	8
para-dichlorobenzene	1.23	1.17	5

RF_{50} - Response Factor from daily standard file at 50 µg/L
RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference

CONTINUING CALIBRATION CHECK
VOLATILE COMPOUNDS

Case No. _____
Laboratory: H2M Labs Inc.
Contract No. NJ DEP
Instrument ID: OWA #1

Calibration Date: 8/28/87
Time: 9148
Laboratory ID: P47431
Initial Calibration Date: 8/9/87

Maximum %D. is 35%

Compound	RF	RF_{50}	%D
Chloromethane	3.81	3.38	13
Bromomethane	0.280	0.303	8
Vinyl chloride	1.23	1.47	20
Chloroethane	1.63	1.52	7
Methylene chloride	2.75	2.64	4
1,1-Dichloroethene	1.97	2.10	7
1,1-Dichloroethane	3.21	2.63	18
trans-1,2-Dichloroethene	1.89	1.32	30
Chloroform	4.19	3.92	6
1,2-Dichloroethane	3.77	4.25	14
Trichlorofluoromethane	3.33	2.39	28
1,1,1-Trichloroethane	0.231	0.171	26
Carbon tetrachloride	0.109	0.105	4
Bromodichloromethane	0.362	0.431	19
1,2-Dichloropropane	0.484	0620	28
trans-1,3-Dichloropropene	0.202	0.231	14
Trichloroethene	0.642	0.477	26
Dibromochloromethane	0.319	0.409	28
1,1,2-Trichloroethane	0.454	0.448	1
Benzene	1.39	1.44	4
cis-1,3-Dichloropropene	0.158	0.191	21
2-Chloroethylvinylether	1.02	1.15	1
Bromoform	0.270	0.323	20
Tetrachloroethene	0.621	0.447	28
1,1,2,2-Tetrachloroethane	0.722	.916	27
Toluene	0.930	1.19	28
Chlorobenzene	1.26	1.23	2
Ethylbenzene	0.636	0.600	6
meta-dichlorobenzene	1.26	0.848	33
ortho-dichlorobenzene	1.11	0.798	28
para-dichlorobenzene	1.23	0.971	21

RF_{50} - Response Factor from daily standard file at µg/L
RF - Average Response Factor from initial calibration Form VI
%D - Percent Difference

Continuing Calibration Check
HSL Compounds

Case No: Semi-Volatile BNA Calibration Date: 09/09/87

Contractor: H2M LABS INC. Time: 15:18

Contract No: NJDEP 9/87 Laboratory ID: >P3385

Instrument ID: HP#2 Initial Calibration Date: 09/09/87

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 20%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
N-Nitrosodimethylamine	.51720	.55666	7.63			
2-Fluorophenol (SS)	.66385	.68186	2.71			(Conc=103.78)
Phenol	1.22226	1.02443	16.19	*		
bis(-2-Chloroethyl)Ether	.84367	.85769	1.66			
Phenol-d6 (SS)	.89671	.94674	5.58			(Conc=101.58)
2-Chlorophenol	.81000	.83559	3.16			
1,3-Dichlorobenzene	.91347	.85073	6.87			
1,4-Dichlorobenzene	.96214	.93604	2.71	*		
1,2-Dichlorobenzene	.90857	.83543	8.05			
bis(2-Chloroisopropyl)ether	2.69679	2.72111	.90			
itroso-Di-n-Propylamine	.86479	.83737	3.17		**	
Hexachloroethane	.42691	.41128	3.66			
Nitrobenzene-d5 (SS)	.60375	.57510	4.75			(Conc=103.78)
Nitrobenzene	.67745	.66266	2.18			
Isophorone	1.28197	1.26403	1.40			
2-Nitrophenol	.18670	.15984	14.38	*		
2,4-Dimethylphenol	.41045	.42213	2.84			
bis(-2-Chloroethoxy)Methane	.65750	.64972	1.18			
2,4-Dichlorophenol	.43573	.43406	.38	*		
1,2,4-Trichlorobenzene	.42135	.39966	5.15			
Naphthalene	1.33303	1.23380	7.44			
Hexachlorobutadiene	.33308	.30977	7.00	*		
4-Chloro-3-Methylphenol	.55293	.56132	1.52	*		
Hexachlorocyclopentadiene	.32943	.31025	5.82		**	
2,4,6-Trichlorophenol	.31373	.31006	1.17	*		
2-Chloronaphthalene	.83201	.79112	4.91			
2-Fluorobiphenyl (SS)	.61629	.59730	3.08			(Conc=105.73)
Dimethyl Phthalate	.98926	.94411	4.56			
Acenaphthylene	1.11972	1.09849	1.90			
Acenaphthene	.78551	.74948	4.59	*		
2,4-Dinitrophenol	.10298	.07705	25.18		**	
4-Nitrophenol	.19789	.20038	1.26		**	

RF - Response Factor from daily standard file at 25.00 ug/mL

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Semi-Volatile BNA
Calibration Date: 09/09/87

Contractor: H2M LABS INC.
Time: 15:18

Contract No: NJDEP 9/87
Laboratory ID: >P3385

Instrument ID: HP#2
Initial Calibration Date: 09/09/87

Minimum $\overline{RF}$ for SPCC is 0.05
Maximum % Diff for CCC is 20%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
2,4-Dinitrotoluene	.21126	.23248	10.05			
2,6-Dinitrotoluene	.25964	.25629	1.29			
Diethylphthalate	.88346	.99092	12.16			
4-Chlorophenyl-phenylether	.37013	.42778	15.58			
Fluorene	.63162	.73352	16.13			
2,4,6-Tribromophenol (SS)	.24978	.31305	25.33			(Conc=102.90)
4,6-Dinitro-2-methylphenol	.20734	.20627	.52			
N-Nitrosodiphenylamine	.67186	.66548	.95	*		
4-Bromophenyl-phenylether	.39271	.40530	3.20			
Hexachlorobenzene	.60112	.61511	2.33			
Pentachlorophenol	.25360	.24966	1.56	*		
Phenanthrene	1.22781	1.22729	.04			
Anthracene	1.27658	1.28829	.92			
Di-n-Butylphthalate	1.71128	1.39063	18.74			
Fluoranthene	1.35119	1.13270	16.17	*		
Terphenyl-d14 (SS)	.88120	.73346	16.77			(Conc=100.06)
Benzidine	.28310	.27261	3.70			
Pyrene	1.38582	1.14672	17.25			
Butylbenzylphthalate	.84694	.71811	15.21			
3,3'-Dichlorobenzidine	.44069	.40540	8.01			
Benzo(a)Anthracene	1.21108	1.05614	12.79			
bis(2-Ethylhexyl)Phthalate	1.10393	.94518	14.38			
Chrysene	1.17491	1.01850	13.31			
Di-n-Octyl Phthalate	1.90834	1.72470	9.62	*		
Benzo(b)Fluoranthene	1.46303	1.22107	16.54			
Benzo(k)Fluoranthene	.95843	.92145	3.86			
Benzo(a)Pyrene	1.20414	1.15288	4.26	*		
Indeno(1,2,3-cd)Pyrene	1.45101	1.38632	4.46			
Dibenz(a,h)Anthracene	1.42724	1.36706	4.22			
Benzo(g,h,i)Perylene	1.48419	1.41137	4.91			

RF - Response Factor from daily standard file at 25.00 ug/mL

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Semi-Volatile BNA Calibration Date: 09/10/87

Contractor: H2M LABS INC. Time: 14:16

Contract No: NJDEP 9/87 Laboratory ID: >P3395

Instrument ID: HP#2 Initial Calibration Date: 09/09/87

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 20%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
N-Nitrosodimethylamine	.51720	.68450	32.35			
2-Fluorophenol (SS)	.66385	.70813	6.67			(Conc=103.78)
Phenol	1.22226	1.44799	18.47	*		
bis(-2-Chloroethyl)Ether	.84367	.97268	15.29			
Phenol-d6 (SS)	.89671	1.07484	19.86			(Conc=101.58)
2-Chlorophenol	.81000	.84037	3.75			
1,3-Dichlorobenzene	.91347	.88791	2.80			
1,4-Dichlorobenzene	.96214	.96137	.08	*		
1,2-Dichlorobenzene	.90857	.89949	1.00			
bis(2-Chloroisopropyl)ether	2.69679	2.33097	13.56			
itroso-Di-n-Propylamine	.86479	.95777	10.75		**	
Hexachloroethane	.42691	.41919	1.81			
Nitrobenzene-d5 (SS)	.60375	.59350	1.70			(Conc=103.78)
Nitrobenzene	.67745	.65446	3.39			
Isophorone	1.28197	1.24178	3.13			
2-Nitrophenol	.18670	.16917	9.39	*		
2,4-Dimethylphenol	.41045	.39470	3.84			
bis(-2-Chloroethoxy)Methane	.65750	.64372	2.10			
2,4-Dichlorophenol	.43573	.39205	10.02	*		
1,2,4-Trichlorobenzene	.42135	.35210	16.44			
Naphthalene	1.33303	1.22650	7.99			
Hexachlorobutadiene	.33308	.23314	30.00	*		
4-Chloro-3-Methylphenol	.55293	.54948	.62	*		
Hexachlorocyclopentadiene	.32943	.17146	47.95		**	
2,4,6-Trichlorophenol	.31373	.26318	16.11	*		
2-Chloronaphthalene	.83201	.78375	5.80			
2-Fluorobiphenyl (SS)	.61629	.61123	.82			(Conc=105.73)
Dimethyl Phthalate	.98926	.95966	2.99			
Acenaphthylene	1.11972	1.13541	1.40			
Acenaphthene	.78551	.75844	3.45	*		
2,4-Dinitrophenol	.10298	.06852	33.46		**	
4-Nitrophenol	.19789	.15707	20.63		**	

RF - Response Factor from daily standard file at 25.00 ug/mL

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Semi-Volatile BNA Calibration Date: 09/10/87

Contractor: H2M LABS INC. Time: 14:16

Contract No: NJDEP 9/87 Laboratory ID: >P3395

Instrument ID: HP#2 Initial Calibration Date: 09/09/87

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 20%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
2,4-Dinitrotoluene	.21126	.26010	23.12			
2,6-Dinitrotoluene	.25964	.24208	6.76			
Diethylphthalate	.88346	1.02891	16.46			
4-Chlorophenyl-phenylether	.37013	.38035	2.76			
Fluorene	.63162	.70075	10.95			
2,4,6-Tribromophenol (SS)	.24978	.17659	29.30			(Conc=102.90)
4,6-Dinitro-2-methylphenol	.20734	.14574	29.71			
N-Nitrosodiphenylamine	.67186	.75538	12.43	*		
4-Bromophenyl-phenylether	.39271	.34323	12.60			
Hexachlorobenzene	.60112	.45017	25.11			
Pentachlorophenol	.25360	.06501	74.37	*		
Phenanthrene	1.22781	1.23587	.66			
Anthracene	1.27658	1.31223	2.79			
Di-n-Butylphthalate	1.71128	1.46704	14.27			
Fluoranthene	1.35119	1.04145	22.92	*		
Terphenyl-d14 (SS)	.88120	.65571	25.59			(Conc=100.06)
Benzidine	.28310	.17764	37.25			
Pyrene	1.38582	1.04769	24.40			
Butylbenzylphthalate	.84694	.74625	11.89			
3,3'-Dichlorobenzidine	.44069	.27991	36.48			
Benzo(a)Anthracene	1.21108	.83794	30.81			
bis(2-Ethylhexyl)Phthalate	1.10393	.95743	13.27			
Chrysene	1.17491	.79640	32.22			
Di-n-Octyl Phthalate	1.90834	1.58499	16.94	*		
Benzo(b)Fluoranthene	1.46303	.88829	39.28			
Benzo(k)Fluoranthene	.95843	.58638	38.82			
Benzo(a)Pyrene	1.20414	.90164	25.12	*		
Indeno(1,2,3-cd)Pyrene	1.45101	.89393	38.39			
Dibenz(a,h)Anthracene	1.42724	.74908	47.52			
Benzo(g,h,i)Perylene	1.48419	.75906	48.86			

RF - Response Factor from daily standard file at 25.00 ug/mL

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

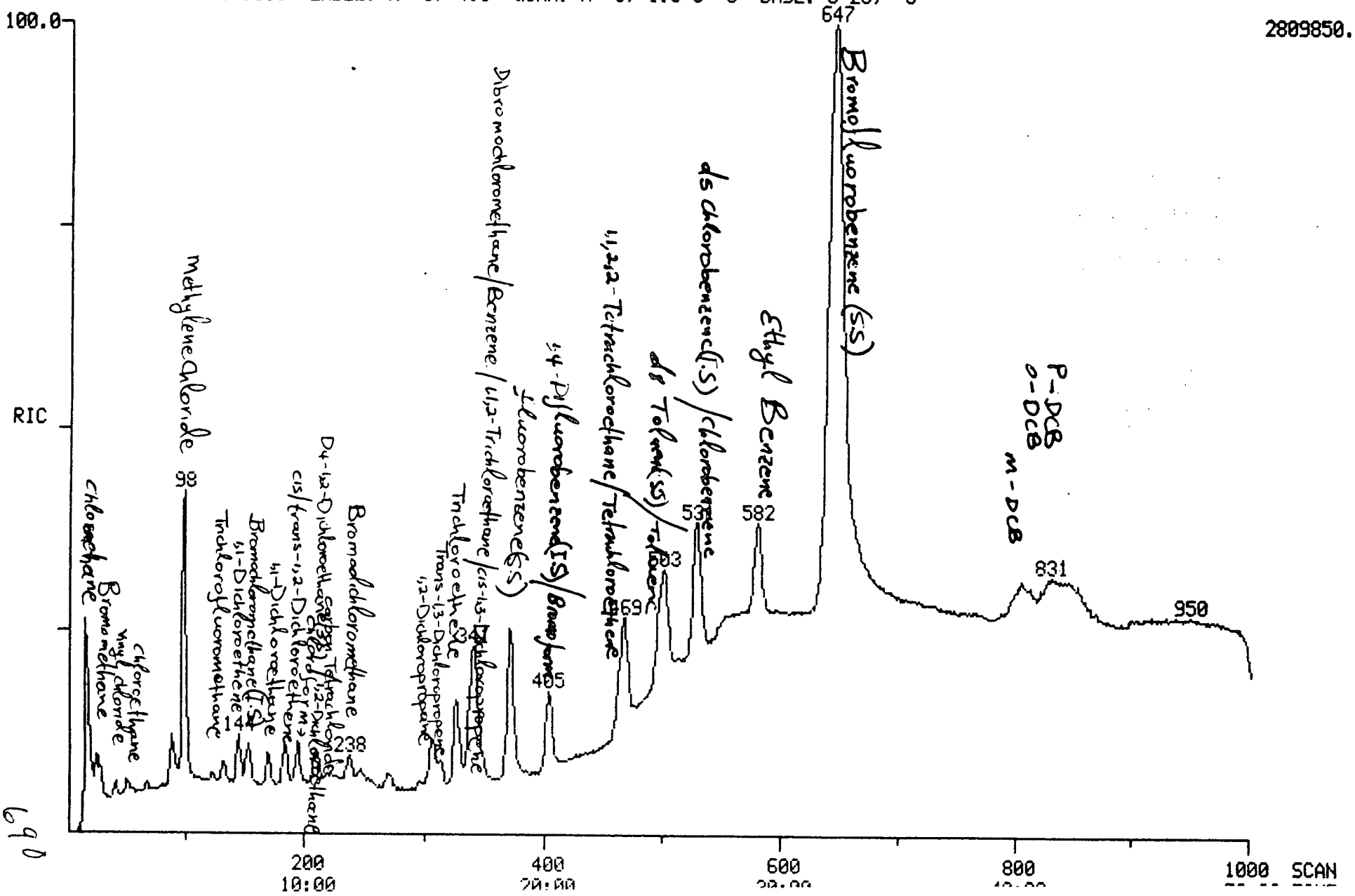
%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

RIC
08/26/87 17:20:00
SAMPLE: 30UG/L METHOD 624
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU7413 #1
CALI: PU7413 #2

SCANS 1 TO 1000



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QUANTITATION REPORT FILE: PU7413

DATA: PU7413.TI
08/26/87 17:20:00
SAMPLE: 30UG/L METHOD 624
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

No	Name
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

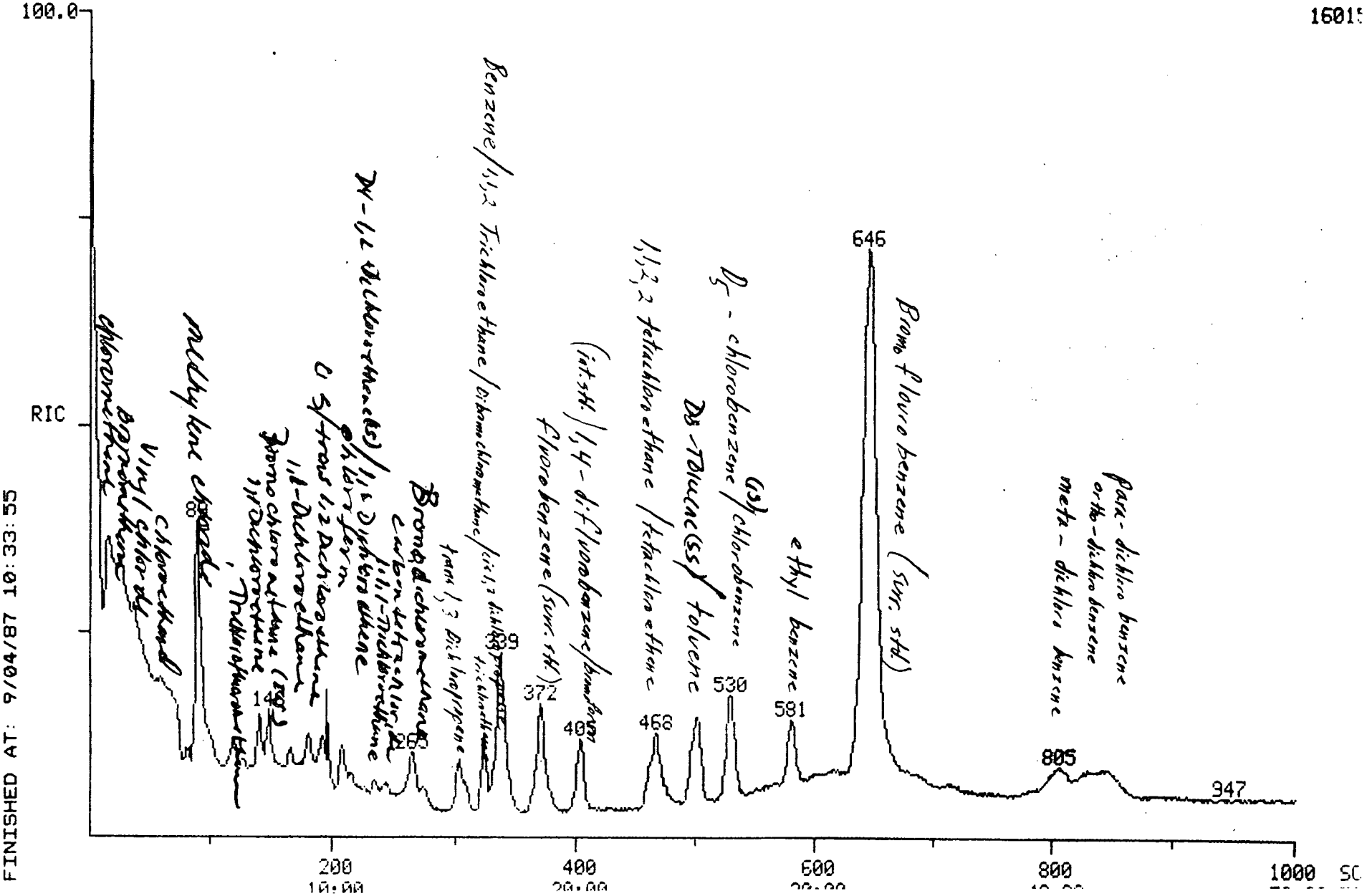
No	M/Z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	152	7:36	1	1.000	A BB	78114.	30.000 UG/L	0.29
2	65	208	10:24	1	1.368	A BV	97582.	30.000 UG/L	0.29
3	50	25	1:15	1	0.164	A BB	308992.	30.000 UG/L	0.29
4	94	41	2:03	1	0.270	A BB	25434.	30.000 UG/L	0.29
5	62	50	2:30	1	0.329	A BB	79565.	30.000 UG/L	0.29
6	64	66	3:18	1	0.434	A*BB	107763.	30.000 UG/L	0.29
7	84	97	4:51	1	0.638	A BB	147456.	30.000 UG/L	0.29
8	43	97	4:51	1	0.638	A VV	226624.	30.000 UG/L	0.29
9	76	88	4:24	1	0.579	A VV	24846.	30.000 UG/L	0.29
10	96	144	7:12	1	0.947	A VV	156935.	30.000 UG/L	0.29
11	63	169	8:27	1	1.112	A BV	250328.	30.000 UG/L	0.29
12	96	183	9:09	1	1.204	A VV	153417.	30.000 UG/L	0.29
13	83	194	9:42	1	1.276	A VB	255771.	30.000 UG/L	0.29
14	62	210	10:30	1	1.382	A*BV	273622.	30.000 UG/L	0.29
15	101	131	6:33	1	0.862	A*BB	271239.	30.000 UG/L	0.29
16	85	49	2:27	1	0.322	A*BB	3470.	30.000 UG/L	0.29
17	56	141	7:03	1	0.928	A*BB	8300.	500.000 UG/L	4.88
18	53	148	7:24	1	0.974	A*VB	6875.	500.000 UG/L	4.88
19	114	405	20:15	19	1.000	A BB	612916.	30.000 UG/L	0.29

20	43	176	8:48	19	0.435	A BB	4792.	30.000	UG/L	0.29
21	97	238	11:54	19	0.588	A BV	116448.	30.000	UG/L	0.29
22	117	247	12:21	19	0.610	A*BB	59545.	30.000	UG/L	0.29
23	43	271	13:33	19	0.669	A BB	2192.	30.000	UG/L	0.29
24	83	271	13:33	19	0.669	A BV	171100.	30.000	UG/L	0.29
25	63	307	15:21	19	0.758	A BB	297507.	30.000	UG/L	0.29
26	75	314	15:42	19	0.775	A BB	158667.	30.000	UG/L	0.29
27	130	327	16:21	19	0.807	A BB	331851.	30.000	UG/L	0.29
28	129	338	16:54	19	0.835	A BB	189868.	30.000	UG/L	0.29
29	97	343	17:09	19	0.847	A BB	225711.	30.000	UG/L	0.29
30	78	340	17:00	19	0.840	A BB	725420.	30.000	UG/L	0.29
31	75	346	17:18	19	0.854	A BB	107817.	30.000	UG/L	0.29
32	63	372	18:36	19	0.919	A BB	414392.	30.000	UG/L	0.29
33	173	405	20:15	19	1.000	A BB	128959.	30.000	UG/L	0.29
34	117	528	26:24	34	1.000	A BB	544535.	30.000	UG/L	0.29
35	43	360	18:00	34	0.682	A BB	13168.	30.000	UG/L	0.29
36	43	385	19:15	34	0.729	A VV	26096.	30.000	UG/L	0.29
37	164	469	23:27	34	0.888	A BB	286565.	30.000	UG/L	0.29
38	83	464	23:12	34	0.879	A BV	362514.	30.000	UG/L	0.29
39	92	503	25:09	34	0.953	A BB	499346.	30.000	UG/L	0.29
40	112	532	26:36	34	1.008	A BV	729992.	30.000	UG/L	0.29
41	106	582	29:06	34	1.102	A BV	363662.	30.000	UG/L	0.29
42	104	601	30:03	34	1.138	A*VV	9454.	30.000	UG/L	0.29
43	NOT	FOUND								
44	NOT	FOUND								
45	146	805	40:15	34	1.525	A*BB	517951.	30.000	UG/L	0.29
46	146	838	41:54	34	1.587	A*BV	565216.	30.000	UG/L	0.29
47	146	845	42:15	34	1.600	A*BB	635856.	30.000	UG/L	0.29
48	96	343	17:09	34	0.650	A BB	55735.	30.000	UG/L	0.29
49	95	642	32:06	34	1.216	A BB	540492.	30.000	UG/L	0.29

RIC
08/28/87 9:48:00
SAMPLE: 30UG/L METHOD 624
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU7431 #1
CALI: PU7431 #2

SCANS 1 TO 1000



TCA FINISHED, 30 FOUND
FINISHED AT: 9/04/87 10:33:55

1601

6 of 3

QUANTITATION REPORT FILE: PU7431

DATA: PU7431.TI
08/28/87 9:48:00
SAMPLE: 30UG/L METHOD 624
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	1,2-DICHLOROPROPANE(X)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	147	7:21	1	1.000	A*BB	79177.	30.000 UG/L	0.71
2	65	207	10:21	1	1.408	A*BB	159211.	30.000 UG/L	0.71
3	50	9	0:27	1	0.061	A BB	267251.	30.000 UG/L	0.71
4	94	26	1:18	1	0.177	A VV	23983.	30.000 UG/L	0.71
5	62	38	1:54	1	0.259	A BB	116476.	30.000 UG/L	0.71
6	64	65	3:15	1	0.442	A*BB	120402.	30.000 UG/L	0.71
7	84	89	4:27	1	0.605	A BB	208832.	30.000 UG/L	0.71
8	NOT FOUND								
9	76	81	4:03	1	0.551	A BB	1774.	30.000 UG/L	0.71
10	96	140	7:00	1	0.952	A*BB	166508.	30.000 UG/L	0.71
11	63	166	8:18	1	1.129	A*BV	208481.	30.000 UG/L	0.71
12	96	181	9:03	1	1.231	A*BB	104905.	30.000 UG/L	0.71
13	83	192	9:36	1	1.306	A*BB	310283.	30.000 UG/L	0.71
14	62	209	10:27	1	1.422	A*BB	336293.	30.000 UG/L	0.71
15	101	126	6:18	1	0.857	A*BB	189428.	30.000 UG/L	0.71
16	85	36	1:48	1	0.245	A BB	2618.	30.000 UG/L	0.71
17	56	140	7:00	1	0.952	A*BV	7144.	500.000 UG/L	11.78
18	53	147	7:21	1	1.000	A*BB	3173.	500.000 UG/L	11.78
19	114	405	20:15	19	1.000	A BB	265502.	30.000 UG/L	0.71

20	43	170	8:30	19	0.420	A*BB	31080.	30.000	UG/L	0.71
21	97	236	11:48	19	0.583	A BV	45410.	30.000	UG/L	0.71
22	117	244	12:12	19	0.602	A VV	28002.	30.000	UG/L	0.71
23	43	262	13:06	19	0.647	A*BB	47896.	30.000	UG/L	0.71
24	83	266	13:18	19	0.657	A BB	114476.	30.000	UG/L	0.71
25	63	304	15:12	19	0.751	A BB	164688.	80.621	UG/L	1.90
26	75	310	15:30	19	0.765	A BB	61282.	30.000	UG/L	0.71
27	130	325	16:15	19	0.802	A BB	126773.	30.000	UG/L	0.71
28	129	333	16:39	19	0.822	A BB	108697.	30.000	UG/L	0.71
29	97	338	16:54	19	0.835	A VB	118912.	30.000	UG/L	0.71
30	78	339	16:57	19	0.837	A BV	381462.	30.000	UG/L	0.71
31	75	310	15:30	19	0.765	A BB	95238.	30.000	UG/L	0.71
32	63	371	18:33	19	0.916	A*BB	305679.	30.000	UG/L	0.71
33	173	402	20:06	19	0.993	A BB	61576.	30.000	UG/L	0.71
34	117	528	26:24	34	1.000	A BB	192159.	30.000	UG/L	0.71
35	43	358	17:54	34	0.678	A BB	2612.	30.000	UG/L	0.71
36	43	385	19:15	34	0.729	A*BB	9770.	30.000	UG/L	0.71
37	164	468	23:24	34	0.886	A BB	85896.	30.000	UG/L	0.71
38	83	463	23:09	34	0.877	A BB	175951.	30.000	UG/L	0.71
39	92	503	25:09	34	0.953	A BV	229119.	30.000	UG/L	0.71
40	112	531	26:33	34	1.006	A BV	236539.	30.000	UG/L	0.71
41	106	581	29:03	34	1.100	A BB	115337.	30.000	UG/L	0.71
42	104	606	30:18	34	1.148	A*BB	2107.	30.000	UG/L	0.71
43	106	631	31:33	34	1.195	A*BB	2705.	30.000	UG/L	0.71
44	106	631	31:33	34	1.195	A*BB	2705.	60.000	UG/L	1.41
45	146	803	40:09	34	1.521	A*BB	162996.	30.000	UG/L	0.71
46	146	830	41:30	34	1.572	A*BV	153432.	30.000	UG/L	0.71
47	146	845	42:15	34	1.600	A BB	186561.	30.000	UG/L	0.71
48	96	372	18:36	34	0.705	A BB	351744.	30.000	UG/L	0.71
49	95	643	32:09	34	1.218	A BB	198014.	30.000	UG/L	0.71

H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

GC/MS TUNING AND MASS CALIBRATION
Bromofluorobenzene (BFB)
for Initial Calibration

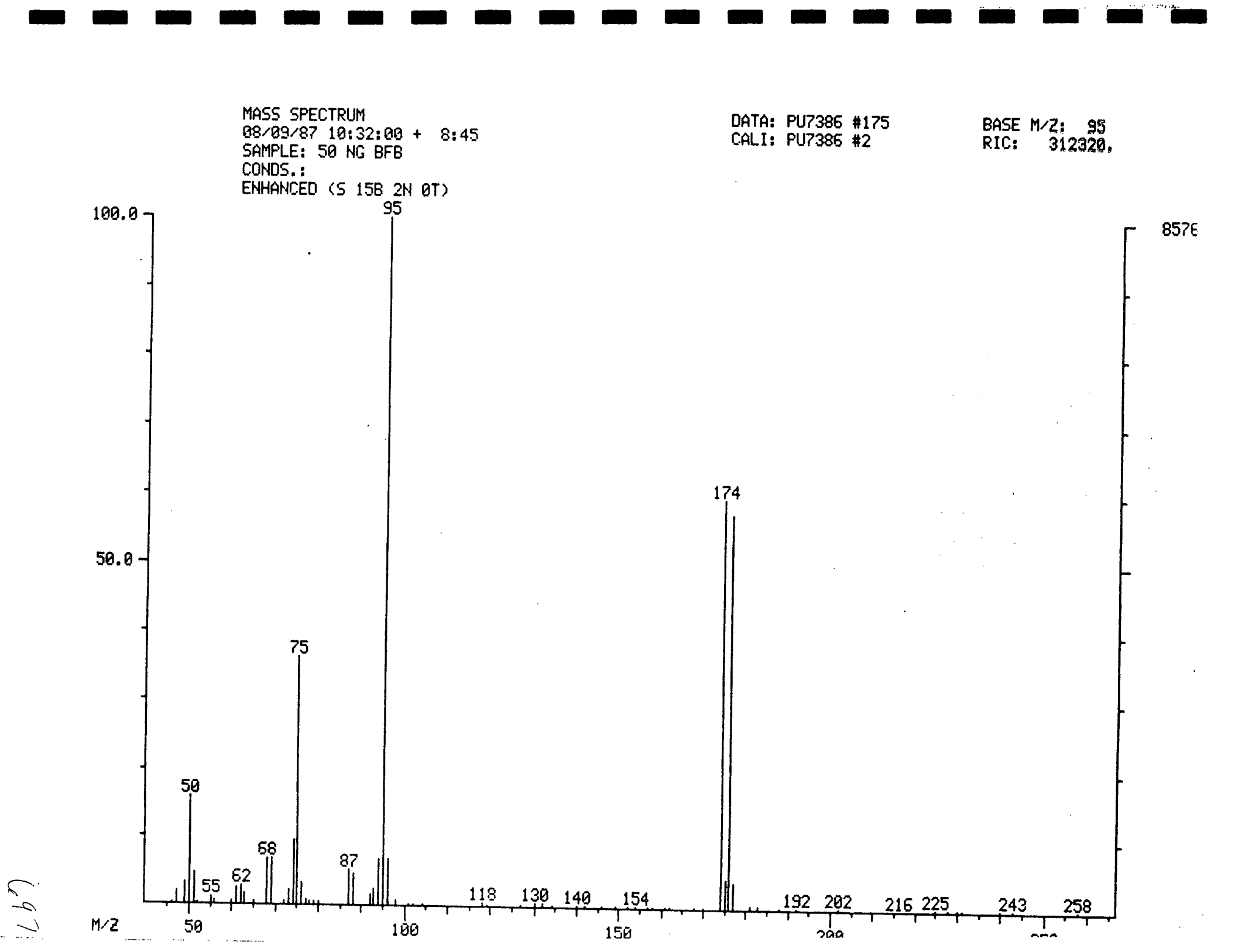
Laboratory H2M Instrument I.D. OWA#1 Date 08/09/87
Time: 10:32 Lab I.D. PU7386

m/e	Ion Abundance Criteria	% Rel. Abundance
50	15.0 - 40.0% of the base peak	15.8
75	30.0 - 60.0% of the base peak	36.3
95	Base peak, 100% relative abundance	100
96	5.0 -9.0% of the base peak	6.7
173	Less than 1.0% of the base peak	0
174	Greater than 50.0% of the base peak	59.5
175	5.0 - 9.0% of mass 174	4.4 (7.4) [1]
176	Greater than 95.0%, but less than 101.0% of mass 174	57.2 (96.1) [1]
177	5.0 - 9.0% of mass 176	3.9 (6.8) [2]

1 - Value in parenthesis is % mass 174.
2 - Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS, AND STANDARDS.

Sample I.D.	Lab I.D.	Date Analyzed	Time of Analysis
10ug/l 624	PU7387	8/09/87	11:33
30ug/l 624	PU7388	8/09/87	12:21
150ug/l 624	PU7389	8/09/87	13:05


MASS SPECTRUM
08/09/87 10:32:00 + 8:45
SAMPLE: 50 NG BFB
CONDS.:
ENHANCED (S 15B 2N 0T)
DATA: PU7386 #175
CALI: PU7386 #2
BASE M/Z: 95
RIC: 312320.
100.0
50.0
M/Z
95
174
75
50
68
87
62
55
118
130
140
154
192
202
216
225
243
258
50
100
150

MASS LIST
8/09/87 10:32:00 + 8:45
AMPLE: 50 NG BFB
ONDS. :
ENHANCED (S 15B 2N 0T)

DATA: PU7386 # 175
CALI: PU7386 # 2

BASE M/I: 95
RIC: 312320.

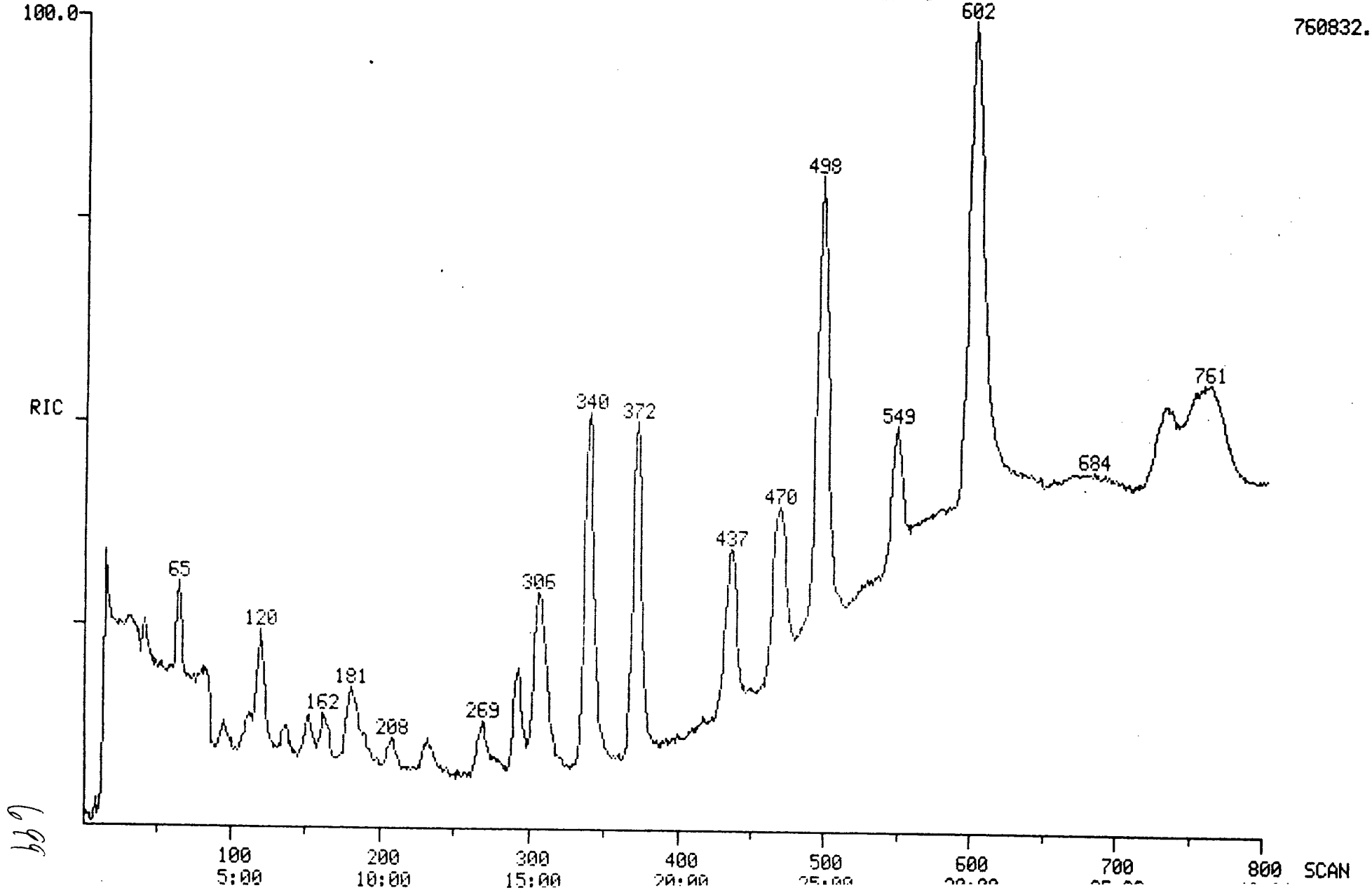
46 0.00 0.00 0.
258 # 0
MASS % RA % RIC INTEN.

MINIMA MIN INTEN: 0.
MAXIMA

MASS	% RA	% RIC	INTEN.
46.00?	0.28	0.08	240.
47.00?	1.98	0.54	1698.
49.00?	3.18	0.87	2728.
50.00?	15.84	4.35	13584.
51.00?	4.55	1.25	3904.
52.00?	0.38	0.10	323.
55.00?	1.02	0.28	876.
56.00?	0.60	0.17	518.
60.00?	0.50	0.14	432.
61.00?	2.36	0.65	2026.
62.00?	2.70	0.74	2316.
63.00?	1.70	0.47	1462.
65.00?	0.62	0.17	536.
68.00?	6.68	1.83	5728.
69.00	6.65	1.83	5704.
72.00	0.59	0.16	502.
73.00	2.16	0.59	1854.
74.00	9.30	2.55	7976.
75.00	36.34	9.98	31168.
76.00	3.15	0.87	2704.
77.00	0.69	0.19	589.
78.00	0.51	0.14	437.
79.00	0.65	0.18	559.
80.00	0.64	0.18	552.
87.00	4.99	1.37	4280.
88.00	4.65	1.28	3992.
90.00	0.12	0.03	105.
92.00	1.50	0.41	1286.
93.00	2.49	0.68	2132.
94.00	6.79	1.86	5824.
95.00	100.00	27.46	85760.
96.00	6.68	1.83	5728.
98.00	0.93	0.26	801.
101.00	0.19	0.05	167.
102.00	0.24	0.07	208.
104.00	0.22	0.06	187.
107.00	0.12	0.03	106.
110.00	0.11	0.03	91.
113.00	0.06	0.02	55.
114.00	0.07	0.02	56.
118.00	0.57	0.16	491.
119.00	0.32	0.09	278.
127.00	0.34	0.09	291.
130.00	0.54	0.15	459.
132.00	0.42	0.11	358.
134.00	0.24	0.07	206.
140.00	0.34	0.09	295.
142.00	0.34	0.09	288.
146.00	0.34	0.09	292.
149.00	0.18	0.05	157.

MASS	% RA	% RIC	INTEN.
152.00	0.28	0.08	237.
154.00	0.39	0.11	338.
157.00	0.27	0.07	228.
158.00	0.22	0.06	192.
161.00	0.19	0.05	163.
162.00	0.21	0.06	183.
168.00	0.14	0.04	122.
170.00	0.28	0.08	242.
172.00	0.14	0.04	116.
174.00	59.48	16.33	51008.
175.00	4.42	1.21	3788.
176.00	57.16	15.70	49024.
177.00	3.89	1.07	3332.
181.00	0.52	0.14	444.
183.00	0.42	0.11	358.
188.00	0.15	0.04	128.
192.00	0.24	0.07	210.
200.00	0.10	0.03	87.
202.00	0.19	0.05	159.
206.00	0.13	0.04	111.
212.00	0.05	0.01	41.
216.00	0.06	0.02	48.
221.00	0.02	0.01	16.
225.00	0.22	0.06	186.
226.00	0.08	0.02	70.
228.00	0.17	0.05	150.
229.00	0.00	0.00	3.
230.00	0.16	0.04	140.
231.00	0.16	0.04	134.
232.00	0.09	0.02	77.
240.00	0.15	0.04	131.
243.00	0.28	0.08	237.
254.00	0.05	0.01	46.
258.00	0.15	0.04	127.

RIC
08/09/87 11:33:00
SAMPLE: 10UG/L METHOD 624
CONDS.:
DATA: PU7387 #1
CALI: PU7387 #2
SCANS 1 TO 800
RANGE: G 1, 804 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



QUANTITATION REPORT FILE: PU7387

DATA: PU7387.TI
08/09/87 11:33:00
SAMPLE: 10UG/L METHOD 624
CONDS. :
SUBMITTED BY: ANALYST: CC

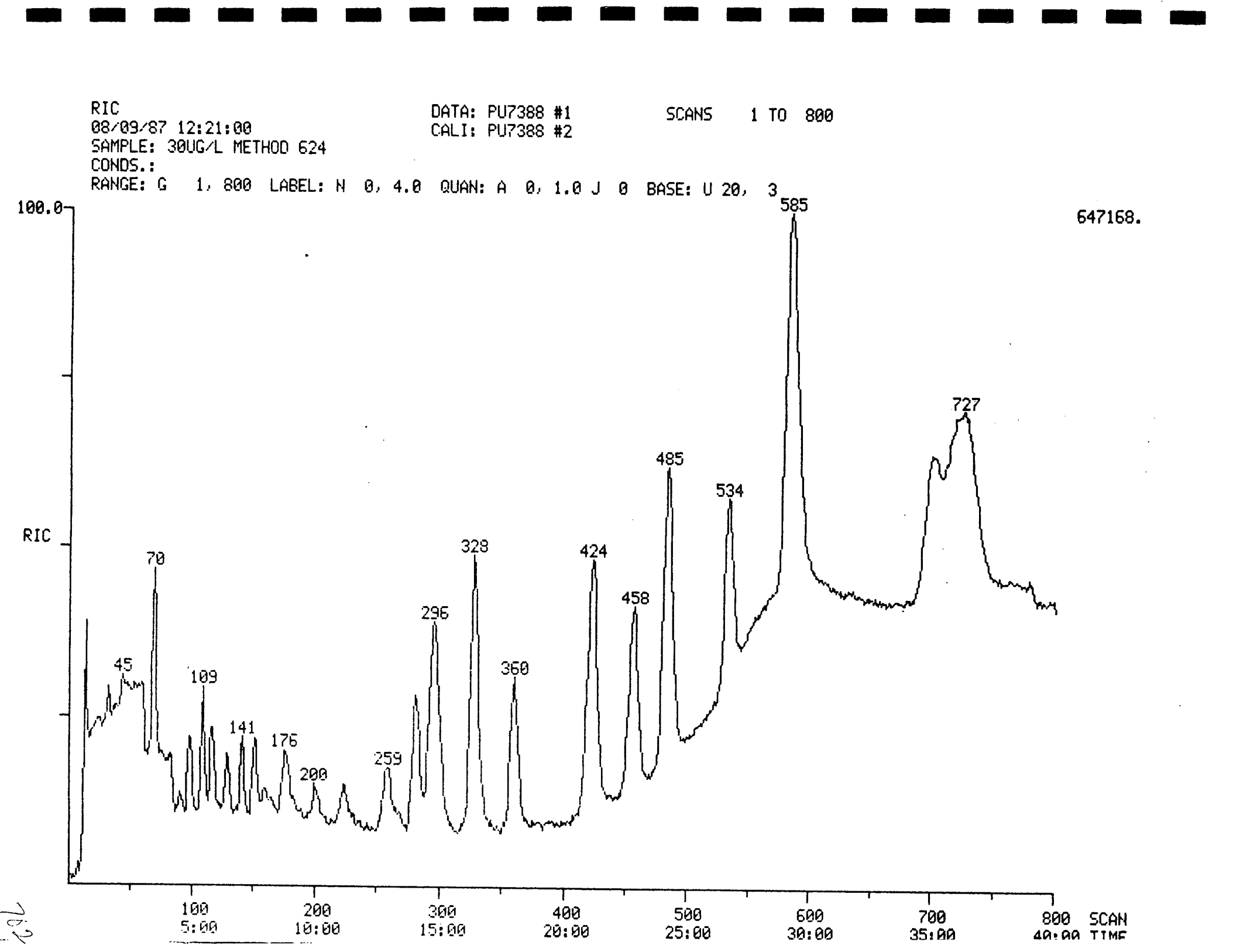
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	Name
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS-1,3-DICHLOROPROPENE(AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	120	6:00	1	1.000	A BB	82542.	30.000	UG/L	3.85
2	65	180	9:00	1	1.500	A BB	117044.	32.794	UG/L	4.21
3	50	15	0:45	1	0.125	A BB	116134.	17.370	UG/L	2.23
4	94	26	1:18	1	0.217	A*BB	7087.	2.731	UG/L	0.35
5	62	31	1:33	1	0.258	A BB	24302.	7.453	UG/L	0.96
6	64	42	2:06	1	0.350	A BB	43350.	10.604	UG/L	1.36
7	84	65	3:15	1	0.542	A BV	71102.	8.430	UG/L	1.08
8	43	72	3:36	1	0.600	A BB	6040.	0.549	UG/L	0.07
9	76	93	4:39	1	0.775	A*BB	3500.	0.806	UG/L	0.10
10	96	112	5:36	1	0.933	A BB	49807.	11.536	UG/L	1.48
11	63	136	6:48	1	1.133	A BV	83488.	7.470	UG/L	0.96
12	96	152	7:36	1	1.267	A VB	55732.	9.126	UG/L	1.17
13	83	163	8:09	1	1.358	A BB	102616.	6.883	UG/L	0.88
14	62	182	9:06	1	1.517	A BV	100835.	7.894	UG/L	1.01
15	101	95	4:45	1	0.792	A BV	74549.	11.986	UG/L	1.54
16	85	40	2:00	1	0.333	A*BB	2350.	68.406	UG/L	8.78
17	56	143	7:09	1	1.192	A BB	1389.	0.315	UG/L	0.04
18	53	144	7:12	1	1.200	A*BB	1527.	236.822	UG/L	30.40
19	114	372	18:36	18	1.000	A BB	[illegible]	[illegible]		

700

20	43	168	8:24	19	0.452	A	BB	14405.	1.222	UG/L	0.16
21	97	208	10:24	19	0.559	A	BV	49910.	8.061	UG/L	1.03
22	117	208	10:24	19	0.559	A	BV	10838.	3.146	UG/L	0.40
23	43	236	11:48	19	0.634	A*	BB	18602.	1.226	UG/L	0.16
24	83	233	11:39	19	0.626	A	BB	79323.	7.652	UG/L	0.98
25	63	269	13:27	19	0.723	A	BB	93342.	8.022	UG/L	1.03
26	75	278	13:54	19	0.747	A	BB	38906.	7.210	UG/L	0.93
27	130	292	14:36	19	0.785	A	BB	141490.	9.411	UG/L	1.21
28	129	305	15:15	19	0.820	A	BV	69807.	7.597	UG/L	0.98
29	97	310	15:30	19	0.833	A	VB	95843.	4.539	UG/L	0.58
30	78	306	15:18	19	0.823	A	BB	344155.	12.573	UG/L	1.61
31	75	313	15:39	19	0.841	A*	BB	37903.	8.024	UG/L	1.03
32	63	340	17:00	19	0.914	A	BB	208777.	46.869	UG/L	6.02
33	173	372	18:36	19	1.000	A	BB	54108.	7.100	UG/L	0.91
34	117	497	24:51	34	1.000	A	BB	721814.	30.000	UG/L	3.85
35	43	405	20:15	34	0.815	A*	BB	44472.	1.295	UG/L	0.17
36	43	419	20:57	34	0.843	A	VB	15640.	0.649	UG/L	0.08
37	164	437	21:51	34	0.879	A	BB	132202.	7.118	UG/L	0.91
38	83	434	21:42	34	0.873	A	BB	148056.	6.972	UG/L	0.90
39	92	471	23:33	34	0.948	A	BV	216934.	8.850	UG/L	1.14
40	112	500	25:00	34	1.006	A	VB	288637.	8.400	UG/L	1.08
41	106	549	27:27	34	1.105	A	BB	156044.	8.774	UG/L	1.13
42	104	633	31:39	34	1.274	A	BB	22698.	0.943	UG/L	0.12
43	NOT	FOUND									
44	NOT	FOUND									
45	146	732	36:36	34	1.473	A	BV	306402.	11.358	UG/L	1.46
46	146	756	37:48	34	1.521	A	VV	273255.	10.389	UG/L	1.33
47	146	761	38:03	34	1.531	A	VB	259073.	9.109	UG/L	1.17
48	96	340	17:00	34	0.684	A	BB	731264.	30.393	UG/L	3.90
49	95	601	30:03	34	1.209	A	BB	498359.	35.137	UG/L	4.51


RIC
08/09/87 12:21:00
SAMPLE: 30UG/L METHOD 624
CONDS.:
DATA: PU7388 #1
CALI: PU7388 #2
SCANS 1 TO 800
RANGE: G 1, 800 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
100.0
647168.
RIC
585
727
485
534
424
328
458
296
70
360
45
109
141
176
259
200
100
5:00
200
10:00
300
15:00
400
20:00
500
25:00
600
30:00
700
35:00
800
40:00
SCAN
TIME

QUANTITATION REPORT FILE: PU7388

DATA: PU7388.TI
08/09/87 12:21:00
SAMPLE: 30UG/L METHOD 624
CONDS. :
SUBMITTED BY: ANALYST: CC

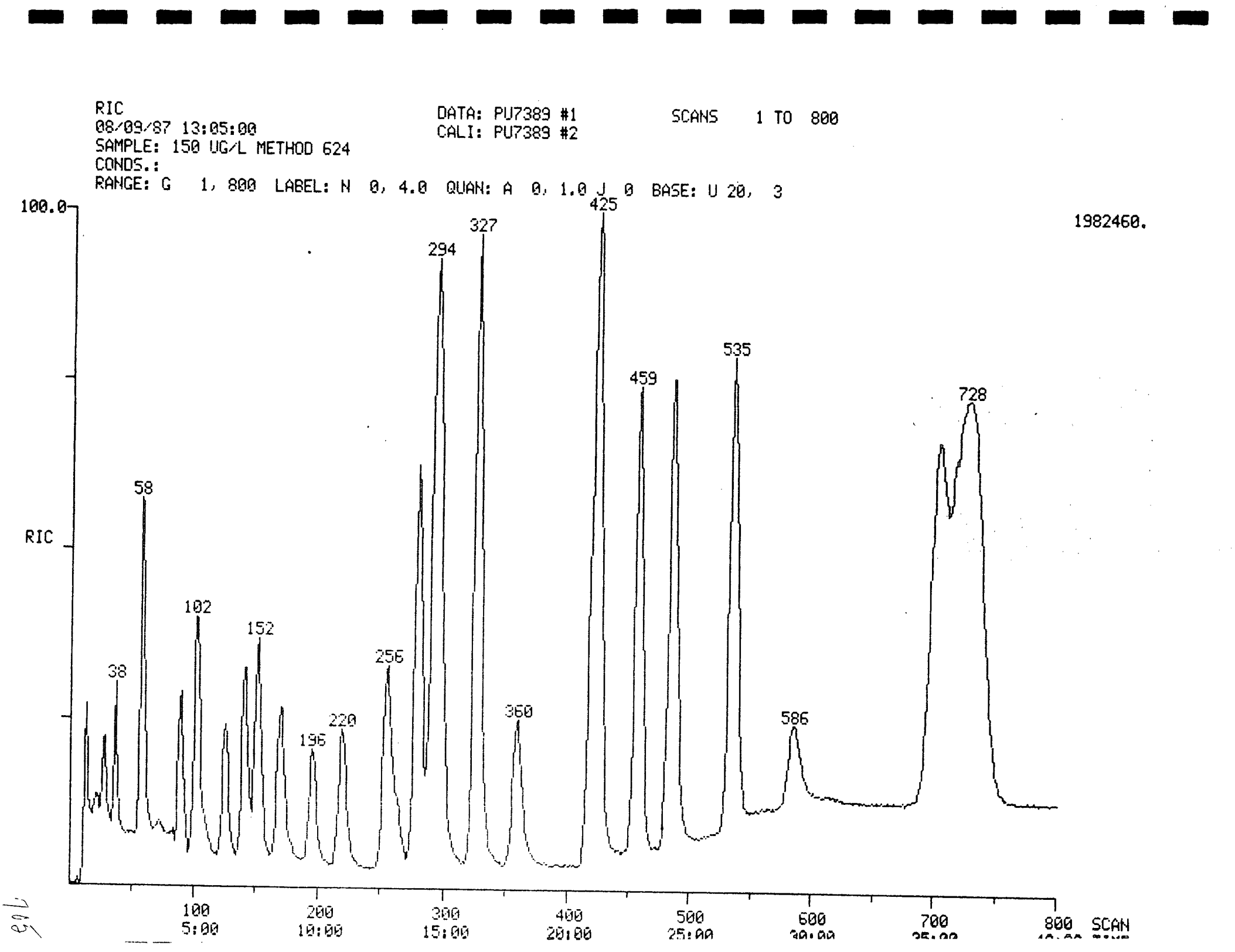
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	1,1,1-TRICHLOROETHANE (I)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS-1,3-DICHLOROPROPENE(AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	116	5:48	1	1.000	A BB	42248.	30.000 UG/L	1.99
2	65	175	8:45	1	1.509	A VB	53175.	29.109 UG/L	1.93
3	50	15	0:45	1	0.129	A BB	162141.	47.380 UG/L	3.15
4	94	24	1:12	1	0.207	A BB	11701.	8.810 UG/L	0.58
5	62	33	1:39	1	0.284	A BB	44186.	26.474 UG/L	1.76
6	64	45	2:15	1	0.388	A*VB	54133.	25.872 UG/L	1.72
7	84	70	3:30	1	0.603	A BB	128130.	29.680 UG/L	1.97
8	43	75	3:45	1	0.647	A*BB	13580.	2.412 UG/L	0.16
9	76	88	4:24	1	0.759	A*BB	2881.	1.296 UG/L	0.09
10	96	109	5:27	1	0.940	A BV	81064.	36.683 UG/L	2.44
11	63	129	6:27	1	1.112	A BV	121264.	21.198 UG/L	1.41
12	96	141	7:03	1	1.216	A*BB	71137.	22.759 UG/L	1.51
13	83	152	7:36	1	1.310	A*BB	168737.	22.113 UG/L	1.47
14	62	177	8:51	1	1.526	A VV	142279.	21.761 UG/L	1.44
15	101	98	4:54	1	0.845	A BB	149387.	46.926 UG/L	3.12
16	85	41	2:03	1	0.353	A*BB	2095.	119.146 UG/L	7.91
17	56	144	7:12	1	1.241	A*BV	3222.	1.427 UG/L	0.09
18	53	144	7:12	1	1.241	A BB	1229.	372.395 UG/L	24.73
19	114	360	18:00	19	1.000	A BB	306808.	30.000 UG/L	1.99

20	43	162	8:06	19	0.450	A*BB	10650.	1.865	UG/L	0.12
21	117	211	10:33	19	0.586	A*BV	45759.	15.259	UG/L	1.01
22	97	201	10:03	19	0.558	A VV	58163.	19.395	UG/L	1.29
23	43	234	11:42	19	0.650	A VV	16886.	2.298	UG/L	0.15
24	83	224	11:12	19	0.622	A BB	85650.	17.059	UG/L	1.13
25	63	258	12:54	19	0.717	A BB	126274.	22.406	UG/L	1.49
26	75	267	13:21	19	0.742	A BB	49093.	18.784	UG/L	1.25
27	130	282	14:06	19	0.783	A BB	170425.	23.404	UG/L	1.55
28	129	293	14:39	19	0.814	A BB	78654.	17.675	UG/L	1.17
29	97	298	14:54	19	0.828	A VB	118425.	11.580	UG/L	0.77
30	78	294	14:42	19	0.817	A BB	362390.	27.335	UG/L	1.82
31	75	301	15:03	19	0.836	A BB	38457.	16.809	UG/L	1.12
32	63	328	16:24	19	0.911	A BB	281119.	130.303	UG/L	8.65
33	173	360	18:00	19	1.000	A BB	73587.	19.936	UG/L	1.32
34	117	483	24:09	34	1.000	A BB	355063.	30.000	UG/L	1.99
35	43	390	19:30	34	0.807	A*VB	29714.	1.758	UG/L	0.12
36	43	407	20:21	34	0.843	A*BV	34544.	2.914	UG/L	0.19
37	164	425	21:15	34	0.880	A BV	204425.	22.376	UG/L	1.49
38	83	420	21:00	34	0.870	A BV	239416.	22.921	UG/L	1.52
39	92	458	22:54	34	0.948	A BB	278922.	23.131	UG/L	1.54
40	112	486	24:18	34	1.006	A BB	418721.	24.771	UG/L	1.64
41	106	534	26:42	34	1.106	A BB	195471.	22.343	UG/L	1.48
42	104	612	30:36	34	1.267	A BV	25386.	2.145	UG/L	0.14
43	NOT	FOUND								
44	106	621	31:03	34	1.286	A*BB	5468.	1.515	UG/L	0.10
45	146	700	35:00	34	1.449	A BV	460499.	34.704	UG/L	2.30
46	146	721	36:03	34	1.493	A VV	485715.	37.542	UG/L	2.49
47	146	725	36:15	34	1.501	A VB	556403.	39.769	UG/L	2.64
48	96	328	16:24	34	0.679	A BB	290036.	24.506	UG/L	1.63
49	NOT	FOUND								

0.354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08/09/87 13:05:00
SAMPLE: 150 UG/L METHOD 624
CONDS.:
DATA: PU7389 #1
CALI: PU7389 #2
SCANS 1 TO 800
RANGE: G 1, 800 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
100.0
1982460.
RIC
58
38
102
152
196
220
256
294
327
360
425
459
535
586
728
100
5:00
200
10:00
300
15:00
400
20:00
500
25:00
600
30:00
700
35:00
800
SCAN

QUANTITATION REPORT FILE: PU7389

DATA: PU7389.TI
08/09/87 13:05:00
SAMPLE: 150 UG/L METHOD 624
COMMENTS:
SUBMITTED BY: ANALYST: CC

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

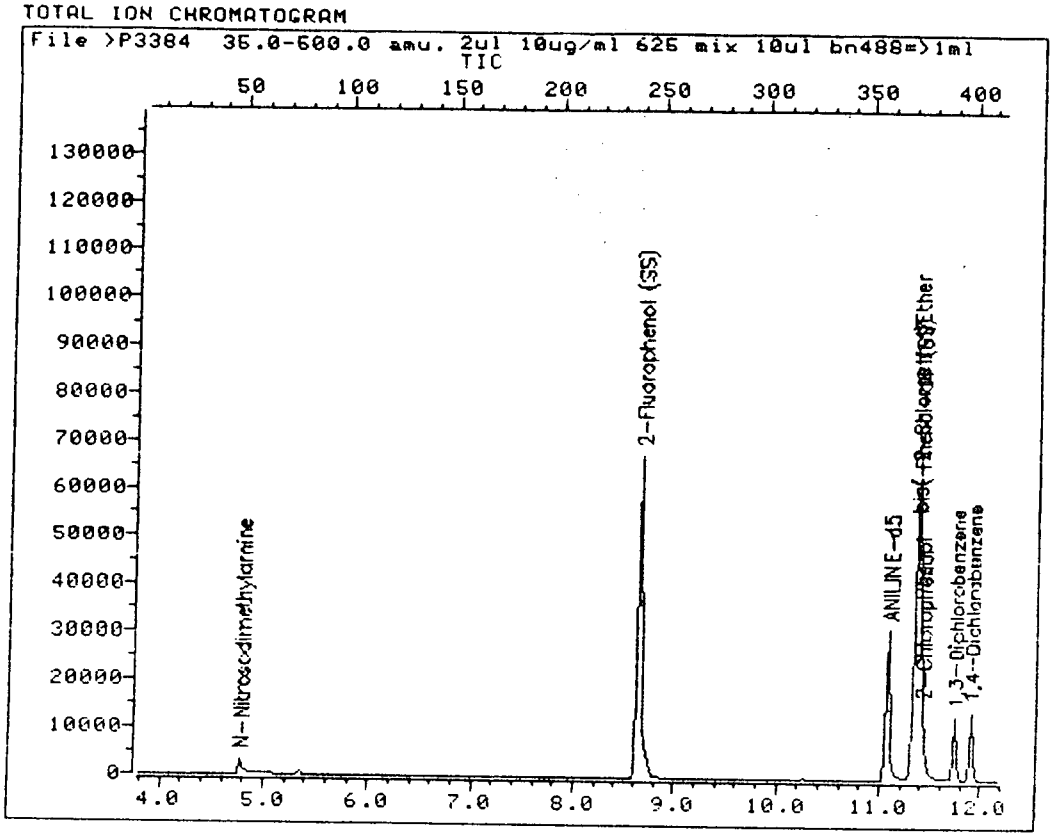
No	Name
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS-1,3-DICHLOROPROPENE(AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR.STD)
49	BROMOFLUORBENZENE(SURR.STD)

No	M/Z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	109	5:27	1	1.000	A BV	61621.	30.000	UG/L	0.50
2	65	169	8:27	1	1.550	A BB	135267.	50.768	UG/L	0.84
3	50	14	0:42	1	0.128	A*BV	1040640.	208.487	UG/L	3.45
4	94	23	1:09	1	0.211	A*BV	56659.	29.248	UG/L	0.48
5	62	28	1:24	1	0.257	A BB	544272.	223.577	UG/L	3.70
6	64	38	1:54	1	0.349	A VV	621349.	203.599	UG/L	3.37
7	84	58	2:54	1	0.532	A BB	809157.	128.506	UG/L	2.13
8	43	73	3:39	1	0.670	A*BB	116892.	14.234	UG/L	0.24
9	76	82	4:06	1	0.752	A BV	3651.	1.126	UG/L	0.02
10	96	102	5:06	1	0.936	A BB	670676.	208.081	UG/L	3.45
11	63	126	6:18	1	1.156	A BV	1152080.	138.078	UG/L	2.29
12	96	141	7:03	1	1.294	A BB	604264.	132.543	UG/L	2.20
13	83	152	7:36	1	1.394	A BB	1498560.	134.642	UG/L	2.23
14	62	170	8:30	1	1.560	A BB	1318640.	138.273	UG/L	2.29
15	101	90	4:30	1	0.826	A BB	1156860.	249.151	UG/L	4.13
16	85	27	1:21	1	0.248	A BB	4590.	178.972	UG/L	2.96
17	56	143	7:09	1	1.312	A*BV	1814.	0.551	UG/L	0.01
18	53	136	6:48	1	1.248	A VB	2330.	484.044	UG/L	8.02
19	114	260	12:00	19	1.000	A BB	442141.	30.000	UG/L	0.50

706

20	43	153	7:39	19	0.425	A*BV	22326.	2.707	UG/L	0.04
21	97	196	9:48	19	0.544	A BB	588369.	135.841	UG/L	2.25
22	117	207	10:21	19	0.575	A*BB	169603.	70.375	UG/L	1.17
23	43	229	11:27	19	0.636	A*BB	11652.	1.098	UG/L	0.02
24	83	220	11:00	19	0.611	A BB	992335.	136.838	UG/L	2.27
25	63	256	12:48	19	0.711	A BB	1326980.	163.022	UG/L	2.70
26	75	264	13:12	19	0.733	A BB	580502.	153.783	UG/L	2.55
27	130	280	14:00	19	0.778	A BB	1554630.	147.816	UG/L	2.45
28	129	291	14:33	19	0.808	A VB	825151.	128.377	UG/L	2.13
29	97	297	14:51	19	0.825	A VB	1160630.	78.574	UG/L	1.30
30	78	293	14:39	19	0.814	A BB	3015930.	157.501	UG/L	2.61
31	75	299	14:57	19	0.831	A BB	298340.	90.280	UG/L	1.50
32	63	327	16:21	19	0.908	A BB	2516500.	807.582	UG/L	13.37
33	173	359	17:57	19	0.997	A BB	698216.	130.967	UG/L	2.17
34	117	483	24:09	34	1.000	A BB	434282.	30.000	UG/L	0.50
35	43	386	19:18	34	0.799	A*VV	29890.	1.446	UG/L	0.02
36	43	394	19:42	34	0.816	A*VB	30216.	2.084	UG/L	0.03
37	164	425	21:15	34	0.880	A BB	1603310.	143.482	UG/L	2.38
38	83	420	21:00	34	0.870	A BB	1908530.	149.387	UG/L	2.47
39	92	459	22:57	34	0.950	A BB	2392090.	162.191	UG/L	2.69
40	112	487	24:21	34	1.008	A BB	3030900.	146.599	UG/L	2.43
41	106	535	26:45	34	1.108	A BB	1554050.	145.230	UG/L	2.41
42	104	613	30:39	34	1.269	A BB	28892.	1.996	UG/L	0.03
43	NOT FOUND									
44	106	622	31:06	34	1.288	A BB	7826.	1.772	UG/L	0.03
45	146	703	35:09	34	1.455	A BV	2638460.	162.567	UG/L	2.69
46	146	726	36:18	34	1.503	A*BB	1788410.	113.017	UG/L	1.87
47	146	731	36:33	34	1.513	A BB	2302840.	134.570	UG/L	2.23
48	96	328	16:24	34	0.679	A VB	620543.	42.867	UG/L	0.71
49	95	584	29:12	34	1.209	A BB	298803.	35.015	UG/L	0.58

TOTAL ION CHROMATOGRAM



Data File: >P3384::B1
Name: 2ul 10ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Output File: ^P3384::QT

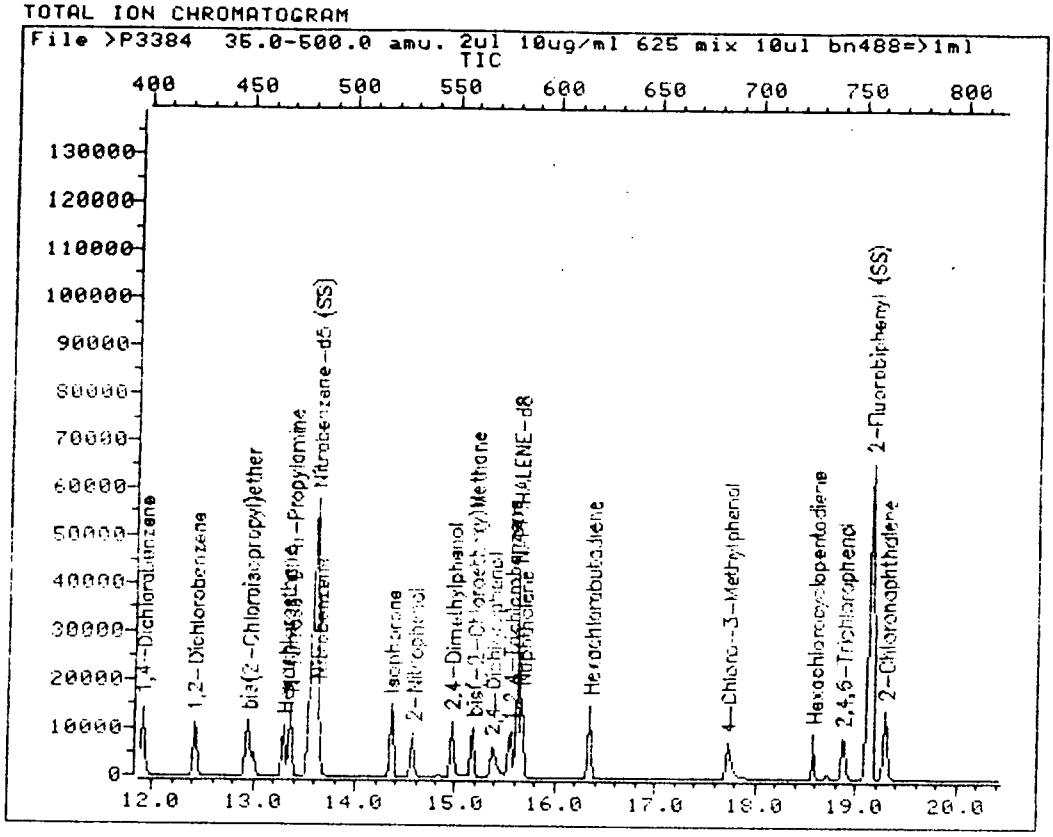
BTL#54

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

Operator ID: GLENN
Quant Time: 870909 14:52
Injected at: 870909 14:05

TIC page 1 of 9

TOTAL ION CHROMATOGRAM



Data File: >P3384::B1
Name: 2ul 10ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Output File: ^P3384::QT

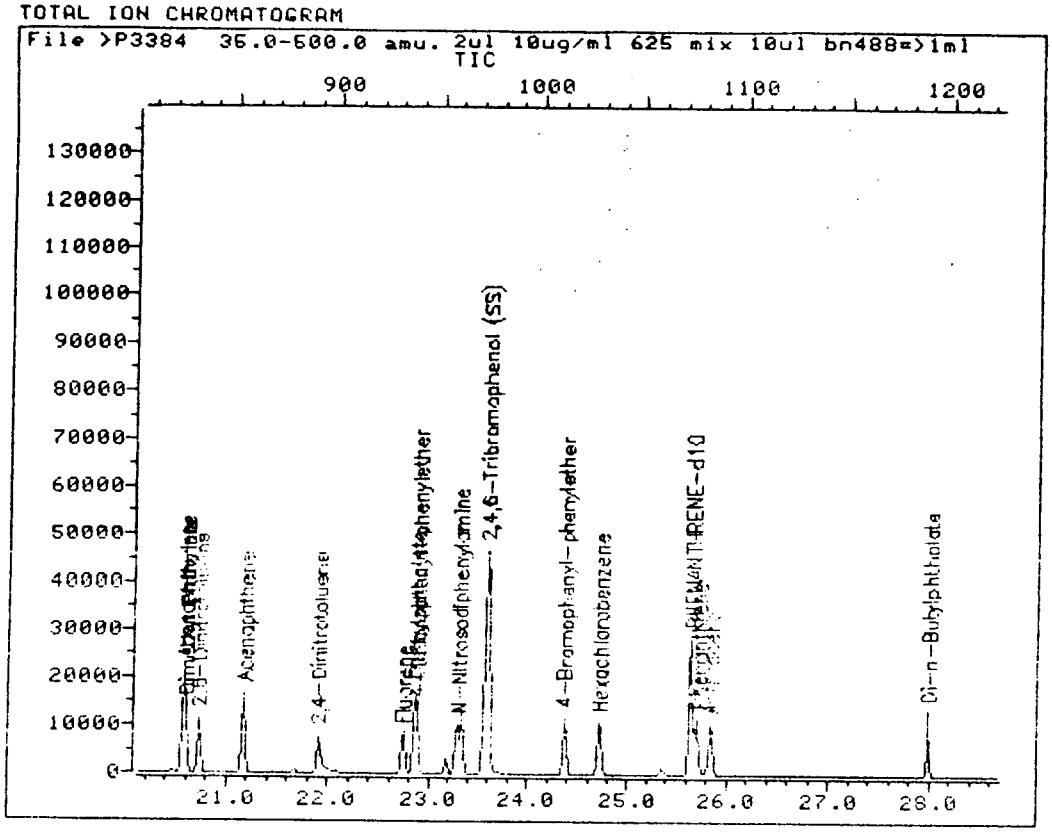
BTL#54

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

Operator ID: GLENN
Quant Time: 870909 14:52
Injected at: 870909 14:05

TIC page 2 of 9

TOTAL ION CHROMATOGRAM



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Name: 2ul 10ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Output File: ^P3384::QT

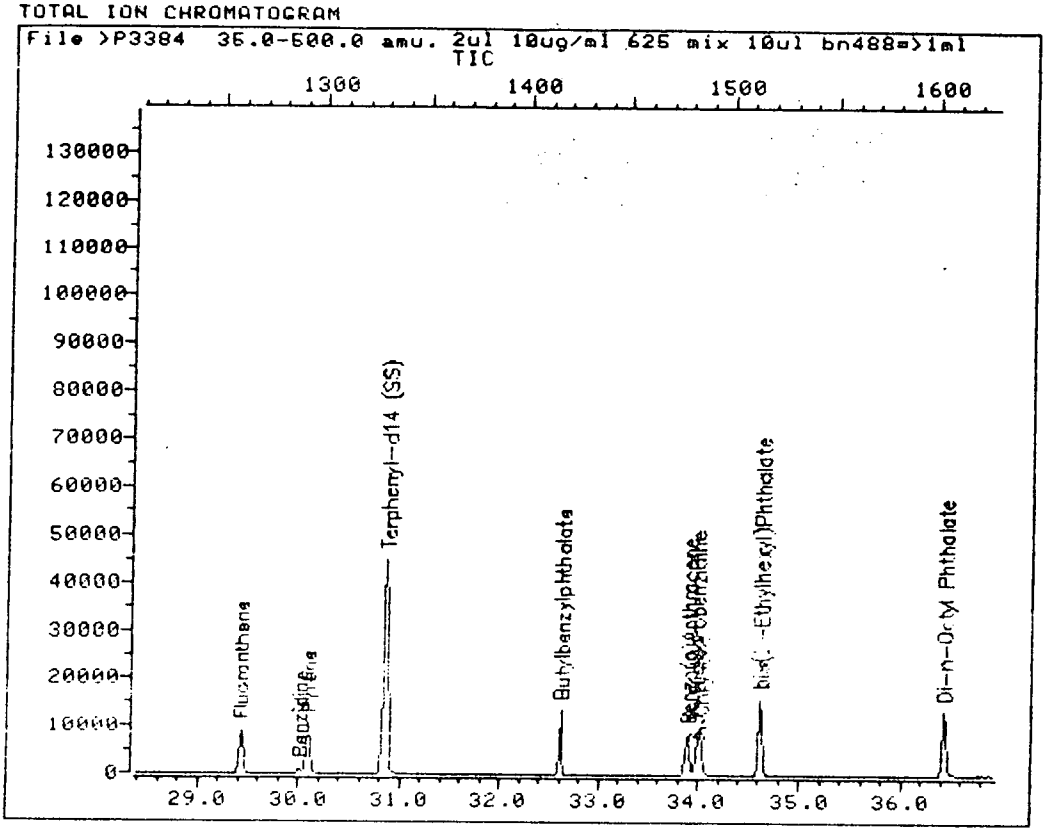
BTL#54

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

Operator ID: GLENN
Quant Time: 870909 14:52
Injected at: 870909 14:05

TIC page 3 of 5

TOTAL ION CHROMATOGRAM



Data File: >P3384::B1
Name: 2ul 10ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Output File: ^P3384::QT

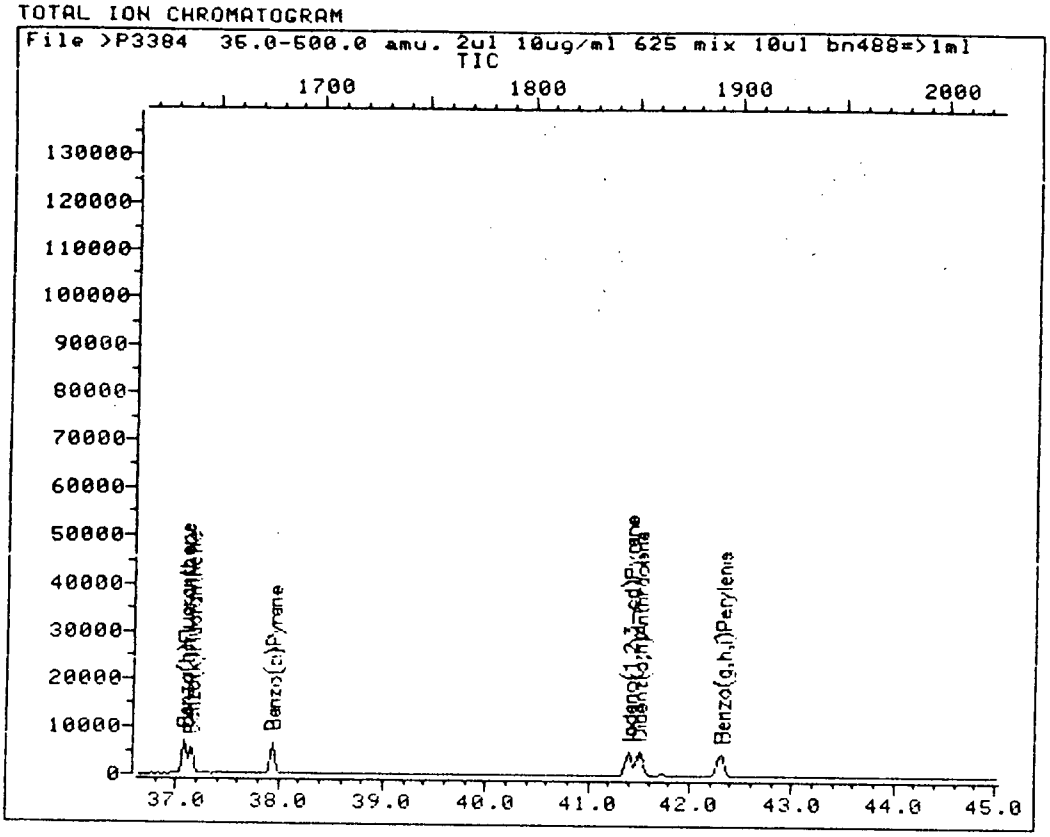
BTL#54

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

Operator ID: GLENN
Quant Time: 870909 14:52
Injected at: 870909 14:05

TIC page 4 of 5

TOTAL ION CHROMATOGRAM



Data File: >P3384::B1
Name: 2ul 10ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Output File: ^P3384::QT

BTL#54

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

Operator ID: GLENN
Quant Time: 870909 14:52
Injected at: 870909 14:05

TIC page 5 of 5

QUANT REPORT

Operator ID: GLENN
Output File: ^P3384::QT
Data File: >P3384::B1
Name: 2ul 10ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Rev: 6
Quant Time: 870909 14:52
Injected at: 870909 14:05
Dilution Factor: 1.00000

BTL#54

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.09	360	25469	42.85	ug/mL	66
2)	N-Nitrosodimethylamine	4.78	50	3130M	5.30	ug/mL	
3)	2-Fluorophenol (SS)	8.67	241	42185	65.86	ug/mL	41
4)	Phenol	11.39	375	8308	6.92	ug/mL	95
5)	bis(-2-Chloroethyl)Ether	11.35	373	5246	5.85	ug/mL	69
6)	Phenol-d6 (SS)	11.37	374	55970	63.21	ug/mL	75
7)	2-Chlorophenol	11.42	376	5104	6.14	ug/mL	67
8)	1,3-Dichlorobenzene	11.74	392	6239	6.17	ug/mL	96
9)	1,4-Dichlorobenzene	11.90	400	6548	6.59	ug/mL	91
10)	1,2-Dichlorobenzene	12.41	425	6025	6.00	ug/mL	94
11)	bis(2-Chloroisopropyl)ether	12.94	[illegible]	18232	10.92	ug/mL	43
12)	N-Nitroso-Di-n-Propylamine	13.37	472	5653	6.55	ug/mL	67
13)	Hexachloroethane	13.31	469	2825	6.41	ug/mL	[illegible]
14)	*NAPHTHALENE-d8	15.63	583	41160	41.04	ug/mL	60
15)	Nitrobenzene-d5 (SS)	13.62	484	62290	[illegible]	ug/mL	[illegible]
16)	Nitrobenzene	13.64	485	7600	13.05	ug/mL	[illegible]
17)	Isophorone	14.35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18)	2-Nitrophenol	14.57	531	1968M	7.88	ug/mL	49
19)	2,4-Dimethylphenol	14.96	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20)	bis(-2-Chloroethoxy)Methane	15.18	561	7462	[illegible]	ug/mL	82
21)	2,4-Dichlorophenol	15.37	[illegible]	[illegible]	[illegible]	ug/mL	95
22)	1,2,4-Trichlorobenzene	15.55	579	[illegible]	9.82	ug/mL	95
23)	Naphthalene	15.67	[illegible]	14140M	10.94	ug/mL	
24)	Hexachlorobutadiene	16.34	618	3923	13.24	ug/mL	90
25)	4-Chloro-3-Methylphenol	17.73	686	5812	12.69	ug/mL	[illegible]
26)	Hexachlorocyclopentadiene	18.58	728	3431M	11.93	ug/mL	
27)	2,4,6-Trichlorophenol	18.87	[illegible]	3234	5.96	ug/mL	95
28)	2-Chloronaphthalene	19.30	763	9323	6.45	ug/mL	93
29)	2-Fluorobiphenyl (SS)	19.16	756	62340	47.82	ug/mL	99
30)	Dimethyl Phthalate	20.60	827	10935	5.59	ug/mL	72
31)	Acenaphthylene	20.58	826	12232	5.68	ug/mL	35
32)	Acenaphthene	21.17	855	8660	5.83	ug/mL	95
35)	2,4-Dinitrotoluene	21.90	891	2015	5.10	ug/mL	85
36)	2,6-Dinitrotoluene	20.72	833	2620	5.74	ug/mL	62
37)	Diethylphthalate	22.86	938	9935	4.97	ug/mL	98
38)	4-Chlorophenyl-phenylether	22.88	939	4276	5.29	ug/mL	84
39)	Fluorene	22.74	932	6517	3.94	ug/mL	83
40)	2,4,6-Tribromophenol (SS)	23.60	974	25351	62.63	ug/mL	75
41)	*PHENANTHRENE-d10	25.65	1075	30037	41.02	ug/mL	71
43)	N-Nitrosodiphenylamine	23.31	960	5734	14.01	ug/mL	91
44)	4-Bromophenyl-phenylether	24.37	1012	3393	14.61	ug/mL	89
45)	Hexachlorobenzene	24.72	1029	5235	15.79	ug/mL	71

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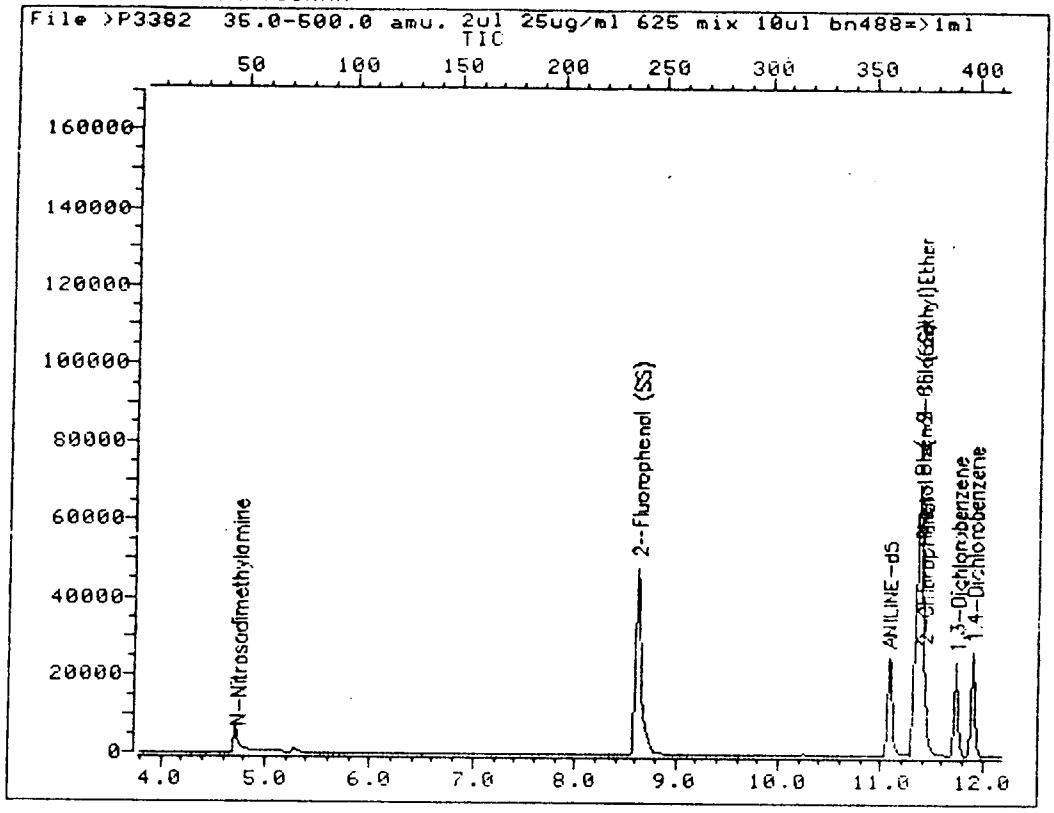
	Compound	R.T.	Scan#	Area	Conc	Units	q
48)	Anthracene	25.84	1084	10475	11.64	ug/mL	46
49)	Di-n-Butylphthalate	27.99	1190	14198	10.80	ug/mL	86
50)	Fluoranthene	29.42	1260	10677	9.59	ug/mL	73
51)	Terphenyl-d14 (SS)	30.87	1331	64005	99.76	ug/mL	38
52)	Benzidine	30.01	1289	1501	8.77	ug/mL	91
53)	Pyrene	30.09	1293	10980	11.00	ug/mL	53
54)	Butylbenzylphthalate	32.62	1417	6790	10.94	ug/mL	91
55)	3,3'-Dichlorobenzidine	33.98	1484	3006	10.80	ug/mL	93
56)	Benzo(a)Anthracene	33.90	1480	9152	9.28	ug/mL	75
57)	bis(2-Ethylhexyl)Phthalate	34.61	1515	8888	9.39	ug/mL	81
58)	Chrysene	34.02	1486	9271	9.63	ug/mL	98
59)	Di-n-Octyl Phthalate	36.43	1604	14557	8.62	ug/mL	100
60)	Benzo(b)Fluoranthene	37.08	1636	9822	9.63	ug/mL	97
61)	Benzo(k)Fluoranthene	37.14	1639	7018M	8.56	ug/mL	95
62)	Benzo(a)Pyrene	37.93	1678	8280	9.49	ug/mL	97
63)	Indeno(1,2,3-cd)Pyrene	41.40	1848	9367	11.81	ug/mL	96
64)	Dibenz(a,h)Anthracene	41.50	1853	9643	14.13	ug/mL	86
65)	Benzo(g,h,i)Perylene	42.31	1893	10041	13.18	ug/mL	76

* Compound is ISTD

TOTAL ION CHROMATOGRAM



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Name: 2ul 25ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Output File: ^P3382::QT

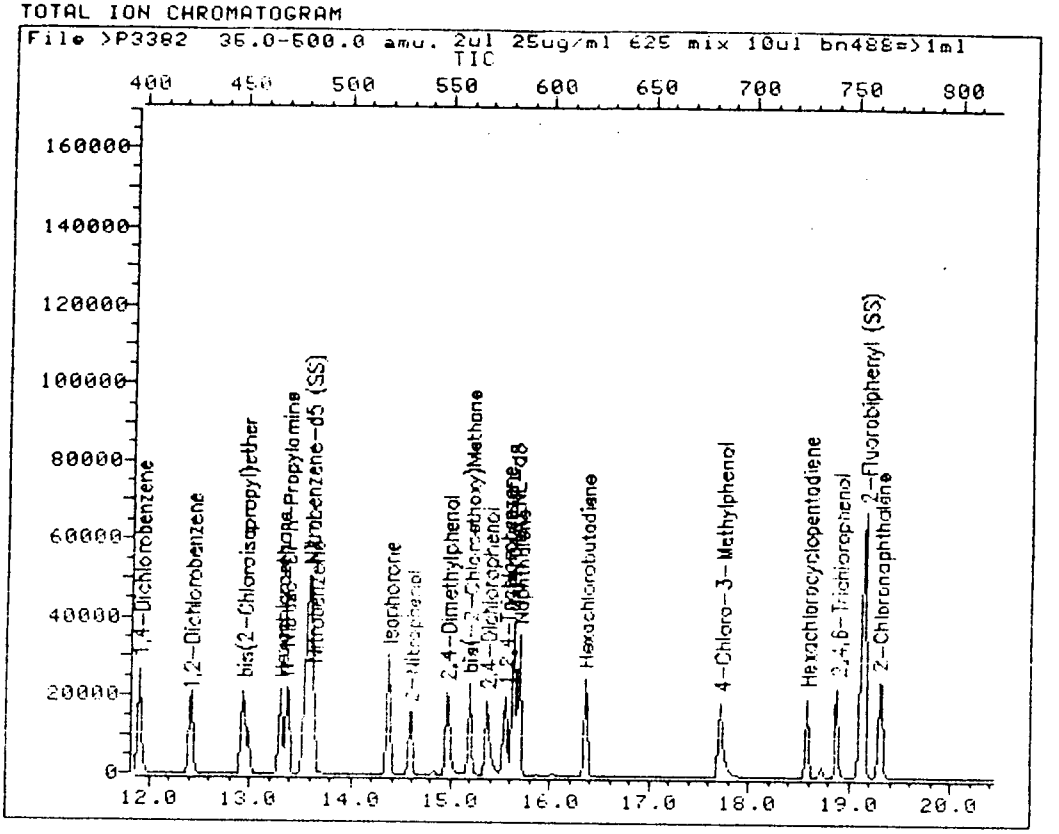
BTL#52

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

Operator ID: GLENN
Quant Time: 870909 12:59
Injected at: 870909 12:12

TIC page 1 of 9

TOTAL ION CHROMATOGRAM



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Name: 2ul 25ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Output File: ^P3382::QT

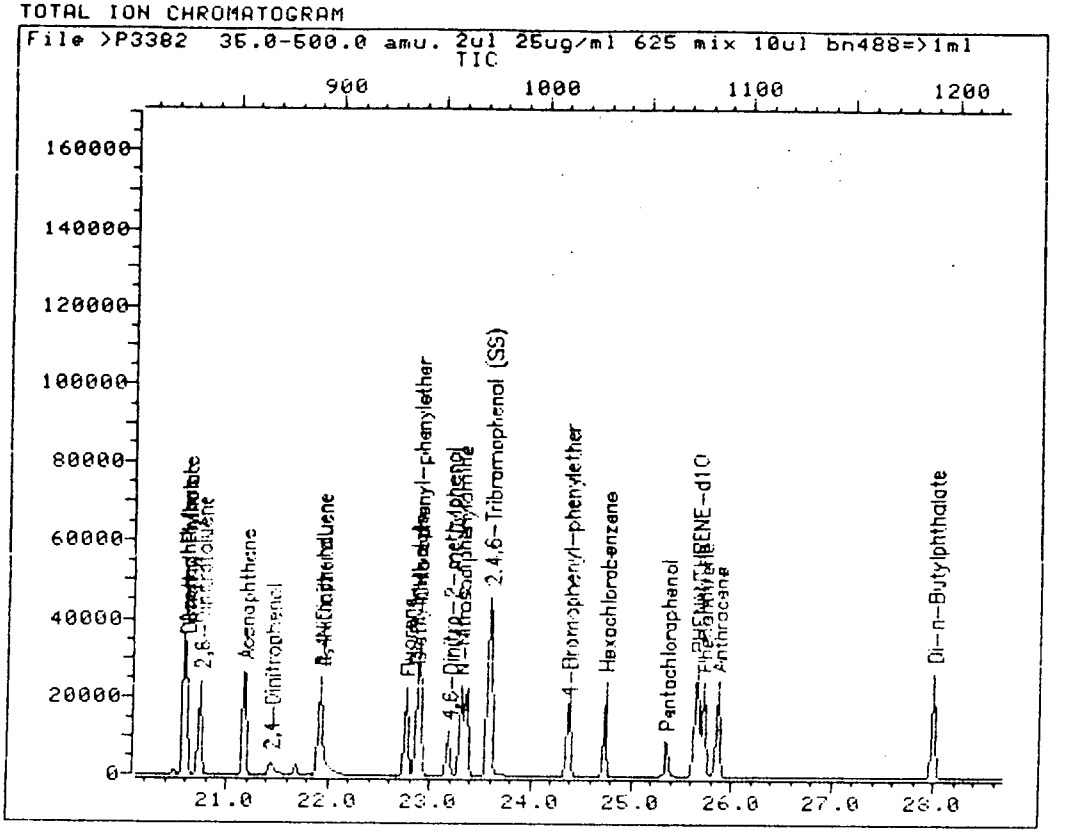
BTL#52

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

Operator ID: GLENN
Quant Time: 870909 12:59
Injected at: 870909 12:12

TIC page 2 of 5

TOTAL ION CHROMATOGRAM



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Name: 2ul 25ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Output File: ^P3382::QT

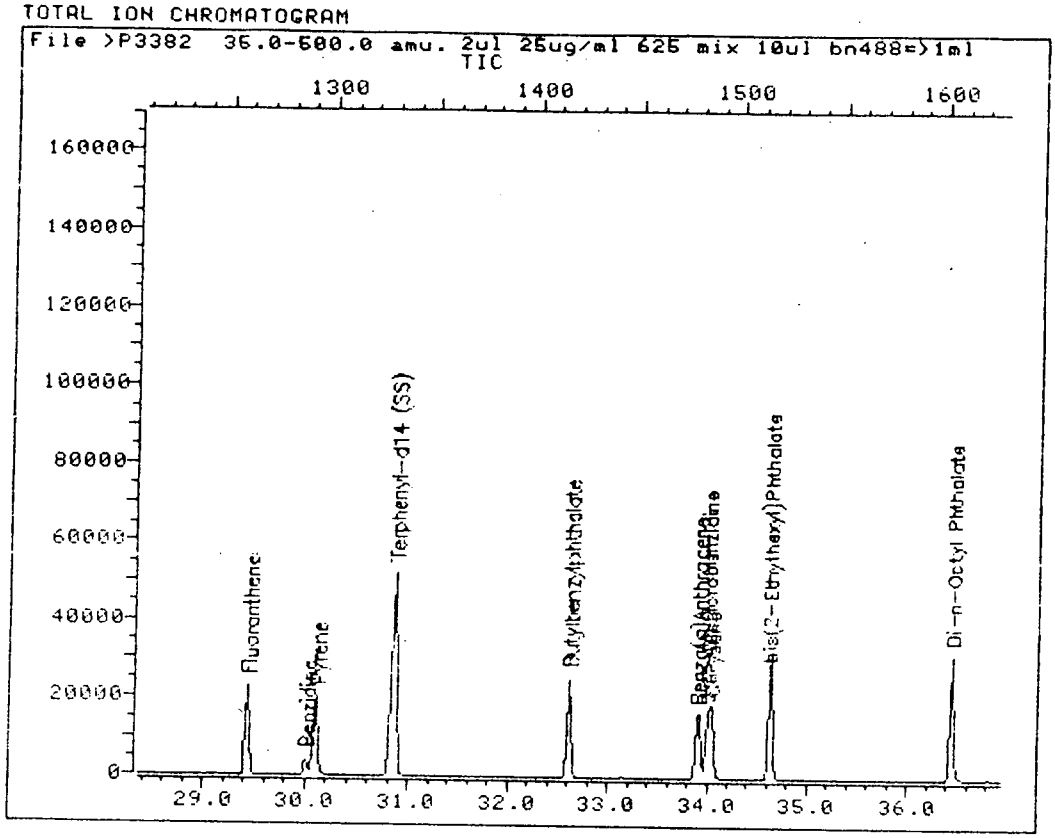
BTL#52

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

Operator ID: GLENN
Quant Time: 870909 12:59
Injected at: 870909 12:12

TIC page 3 of 9

TOTAL ION CHROMATOGRAM



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Name: 2ul 25ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Output File: ^P3382::QT

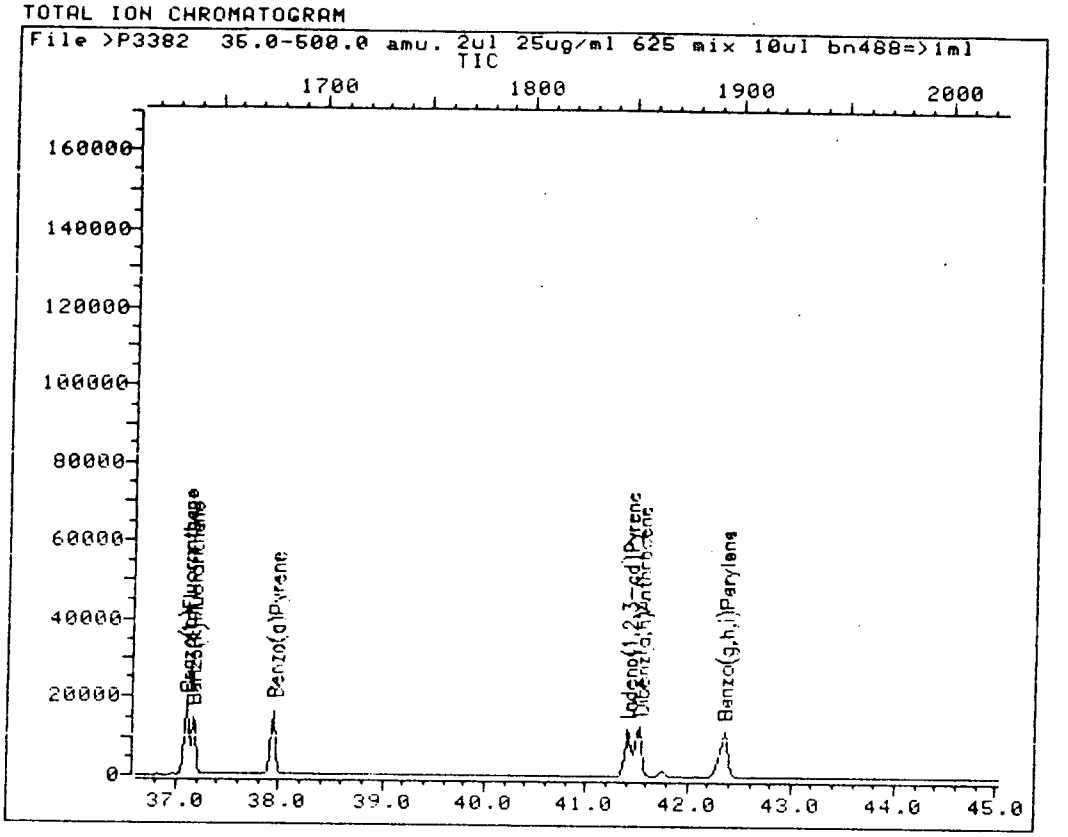
BTL#52

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

Operator ID: GLENN
Quant Time: 870909 12:59
Injected at: 870909 12:12

TIC page 4 of 5

TOTAL ION CHROMATOGRAM



Data File: >P3382::B1
Name: 2ul 25ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Output File: ^P3382::QT

BTL#52

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

Operator ID: GLENN
Quant Time: 870909 12:59
Injected at: 870909 12:12

TIC page 5 of 5

QUANT REPORT

Operator ID: GLENN
Output File: ^P3382::QT
Data File: >P3382::B1
Name: 2ul 25ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Rev: 6 Quant Time: 870909 12:59
Injected at: 870909 12:12
Dilution Factor: 1.00000

BTL#52

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.07	399	24020	42.85	ug/mL	59
2)	N-Nitrosodimethylamine	4.74	48	5104	9.16	ug/mL	66
3)	2-Fluorophenol (SS)	8.62	239	39316	65.09	ug/mL	52
4)	Phenol	11.39	375	16763	14.81	ug/mL	88
5)	bis(-2-Chloroethyl)Ether	11.37	374	12058	14.27	ug/mL	62
6)	Phenol-d6 (SS)	11.37	374	51136	61.23	ug/mL	75
7)	2-Chlorophenol	11.41	376	11537	14.71	ug/mL	63
8)	1,3-Dichlorobenzene	11.74	392	12391	12.99	ug/mL	95
9)	1,4-Dichlorobenzene	11.90	400	13243	14.13	ug/mL	88
10)	1,2-Dichlorobenzene	12.41	425	12775	13.48	ug/mL	93
11)	bis(2-Chloroisopropyl)ether	12.94	451	35088	22.28	ug/mL	43
12)	N-Nitroso-Di-n-Propylamine	13.37	472	11563	14.20	ug/mL	73
13)	Hexachloroethane	13.31	469	5924	14.25	ug/mL	75
14)	*NAPHTHALENE-d8	15.63	583	38576	41.04	ug/mL	60
15)	Nitrobenzene-d5 (SS)	13.59	483	59394	115.32	ug/mL	76
16)	Nitrobenzene	13.64	485	14923	27.34	ug/mL	71
17)	Isophorone	14.37	521	28606	25.81	ug/mL	38
18)	2-Nitrophenol	14.59	532	2882M	12.31	ug/mL	50
19)	2,4-Dimethylphenol	14.96	550	9647	30.59	ug/mL	90
20)	bis(-2-Chloroethoxy)Methane	15.18	561	14683	23.80	ug/mL	84
21)	2,4-Dichlorophenol	15.37	570	10333	28.87	ug/mL	97
22)	1,2,4-Trichlorobenzene	15.55	579	9908	22.15	ug/mL	95
23)	Naphthalene	15.69	586	29519	24.36	ug/mL	40
24)	Hexachlorobutadiene	16.35	618	7722	27.82	ug/mL	92
25)	4-Chloro-3-Methylphenol	17.73	686	12830	29.96	ug/mL	89
26)	Hexachlorocyclopentadiene	18.59	728	7680M	28.48	ug/mL	
27)	2,4,6-Trichlorophenol	18.89	741	7578	14.91	ug/mL	99
28)	2-Chloronaphthalene	19.30	763	19125	14.13	ug/mL	91
29)	2-Fluorobiphenyl (SS)	19.16	756	62746	51.35	ug/mL	99
30)	Dimethyl Phthalate	20.60	827	22837	12.46	ug/mL	73
31)	Acenaphthylene	20.58	826	25640	12.70	ug/mL	39
32)	Acenaphthene	21.17	855	18155	13.03	ug/mL	95
33)	2,4-Dinitrophenol	21.44	868	1915	25.97	ug/mL	60
34)	4-Nitrophenol	21.93	892	4802	12.58	ug/mL	67
35)	2,4-Dinitrotoluene	21.93	892	5346	14.43	ug/mL	31
36)	2,6-Dinitrotoluene	20.74	834	6099	14.26	ug/mL	64
37)	Diethylphthalate	22.86	938	19970	10.66	ug/mL	96
38)	4-Chlorophenyl-phenylether	22.88	939	8440	11.15	ug/mL	92
39)	Fluorene	22.76	933	14840	9.56	ug/mL	86
40)	2,4,6-Tribromophenol (SS)	23.60	974	23476	61.88	ug/mL	71
41)	*PHENANTHRENE-d10	25.65	1075	30946	41.02	ug/mL	67
42)	4,6-Dinitro-2-methylphenol	23.19	954	3613	49.82	ug/mL	89

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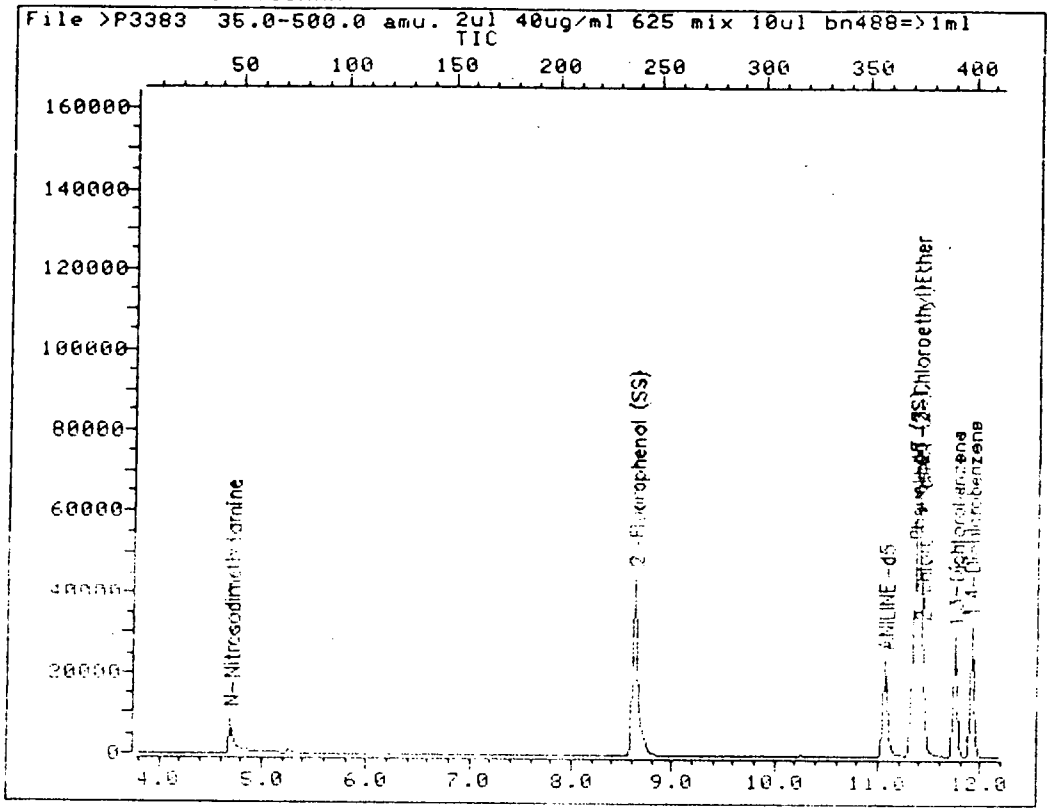
	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	4-Bromophenyl-phenylether	24.37	1012	6899	28.83	ug/mL	78
45)	Hexachlorobenzene	24.74	1030	10489	30.70	ug/mL	77
46)	Pentachlorophenol	25.35	1060	4494	24.49	ug/mL	94
47)	Phenanthrene	25.72	1078	22424	25.35	ug/mL	51
48)	Anthracene	25.86	1085	23337	25.18	ug/mL	46
49)	Di-n-Butylphthalate	28.00	1190	30286	22.36	ug/mL	85
50)	Fluoranthene	29.44	1261	24769	21.58	ug/mL	76
51)	Terphenyl-d14 (SS)	30.87	1331	66109	100.01	ug/mL	38
52)	Benzidine	30.01	1289	5153	29.21	ug/mL	94
53)	Pyrene	30.11	1294	25301	24.59	ug/mL	57
54)	Butylbenzylphthalate	32.62	1417	15329	23.97	ug/mL	91
55)	3,3'-Dichlorobenzidine	34.01	1485	7957	27.76	ug/mL	94
56)	Benzo(a)Anthracene	33.90	1480	21521	21.17	ug/mL	75
57)	bis(2-Ethylhexyl)Phthalate	34.62	1515	19431	19.94	ug/mL	83
58)	Chrysene	34.05	1487	20667	20.83	ug/mL	98
59)	Di-n-Octyl Phthalate	36.45	1605	33575	19.30	ug/mL	100
60)	Benzo(b)Fluoranthene	37.10	1637	25889	24.64	ug/mL	93
61)	Benzo(k)Fluoranthene	37.16	1640	15054M	17.83	ug/mL	91
62)	Benzo(a)Pyrene	37.96	1679	21628	24.07	ug/mL	98
63)	Indeno(1,2,3-cd)Pyrene	41.42	1849	25880	31.69	ug/mL	93
64)	Dibenz(a,h)Anthracene	41.54	1855	25219	35.86	ug/mL	87
65)	Benzo(g,h,i)Perylene	42.36	1895	26146	33.31	ug/mL	78

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: ^P3383::B1
Name: 2ul 40ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Output File: ^P3383::QT

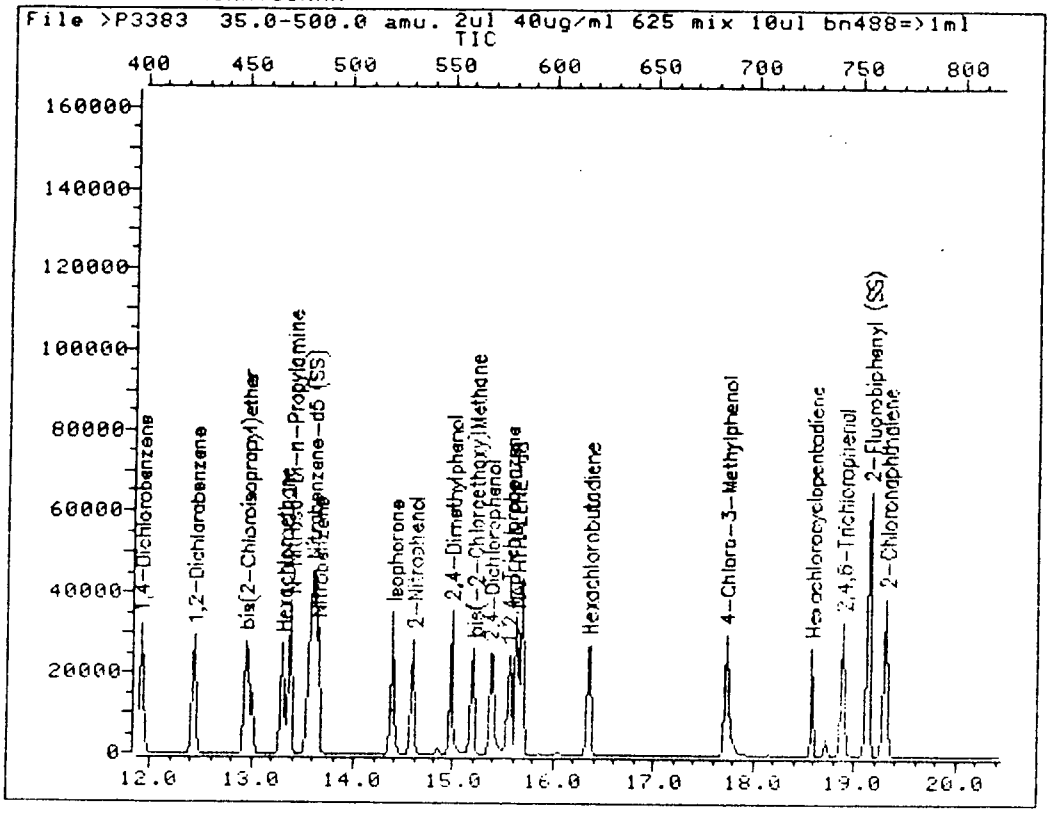
BTL#53

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

Operator ID: GLENN
Quant Time: 870909 13:55
Injected at: 870909 13:09

TIC page 1 of 5

TOTAL ION CHROMATOGRAM



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Name: 2ul 40ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Output File: ^P3383::QT

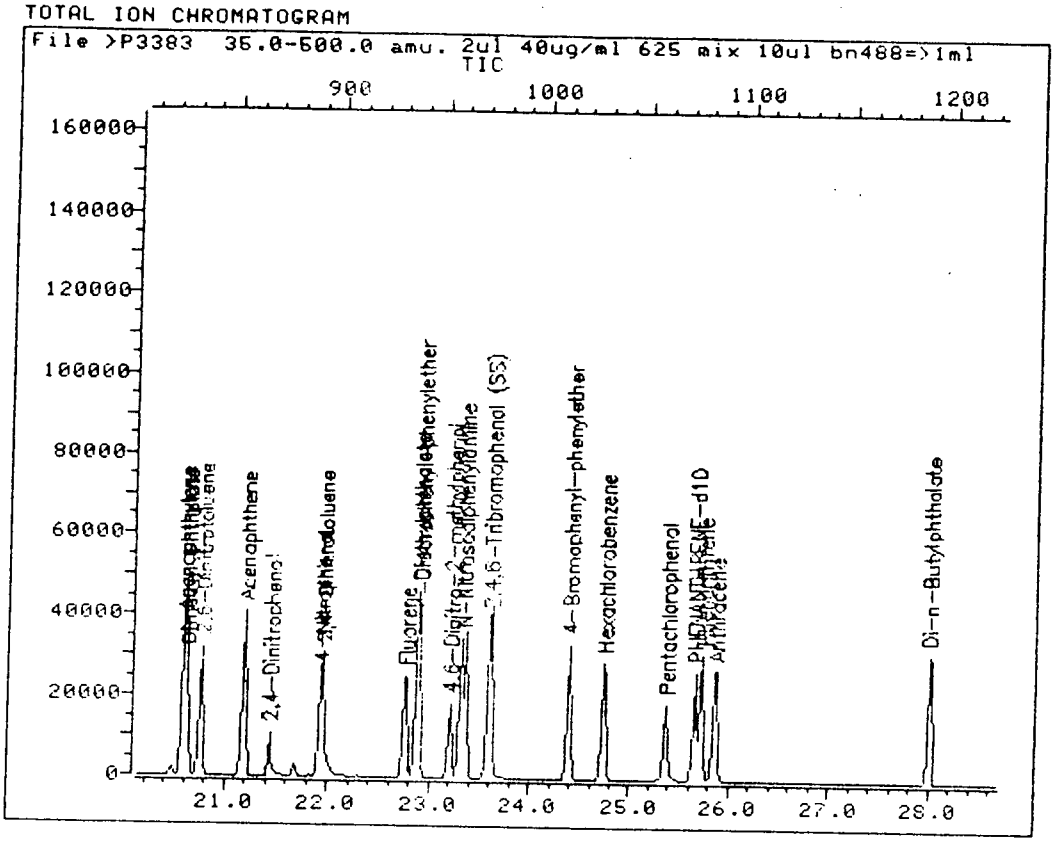
BTL#53

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

Operator ID: GLENN
Quant Time: 870909 13:55
Injected at: 870909 13:09

TIC page 2 of 5

TOTAL ION CHROMATOGRAM



Data File: >P3383::B1
Name: 2ul 40ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Output File: ^P3383::QT

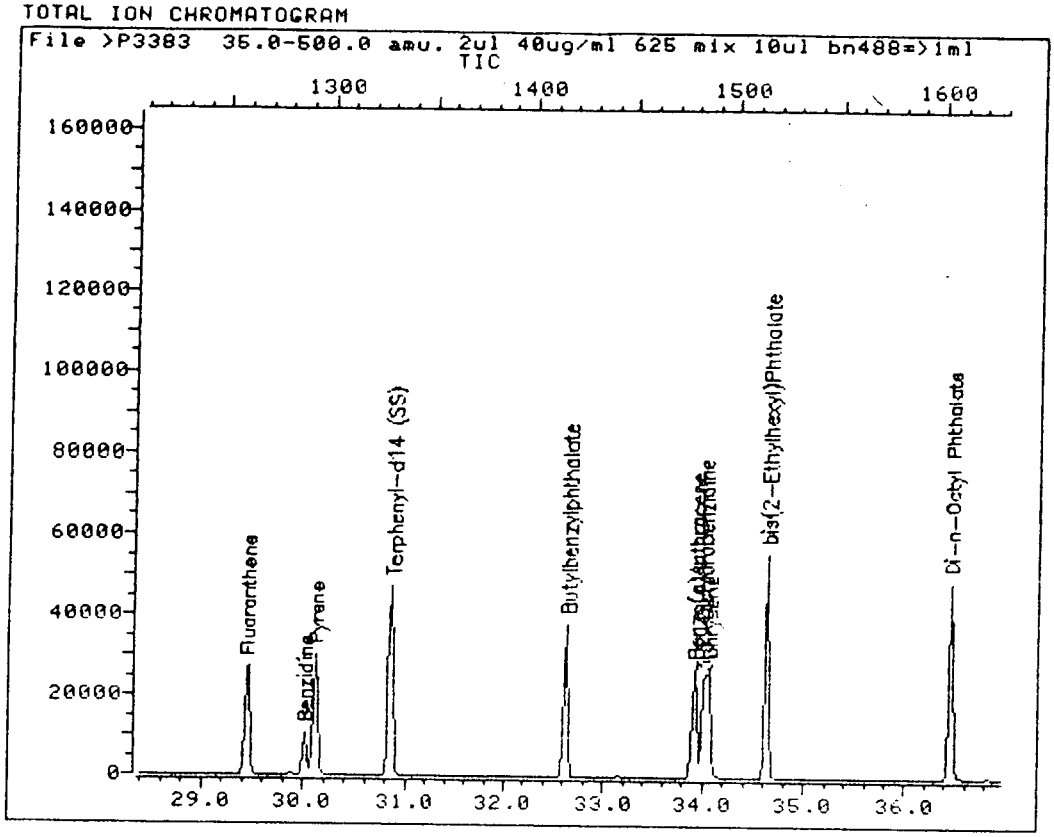
BTL#53

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

Operator ID: GLENN
Quant Time: 870909 13:55
Injected at: 870909 13:09

TIC page 3 of 5

TOTAL ION CHROMATOGRAM



Data File: >P3383::B1
Name: 2ul 40ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Output File: ^P3383::QT

BTL#53

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

Operator ID: GLENN
Quant Time: 870909 13:55
Injected at: 870909 13:09

TIC page 4 of 5

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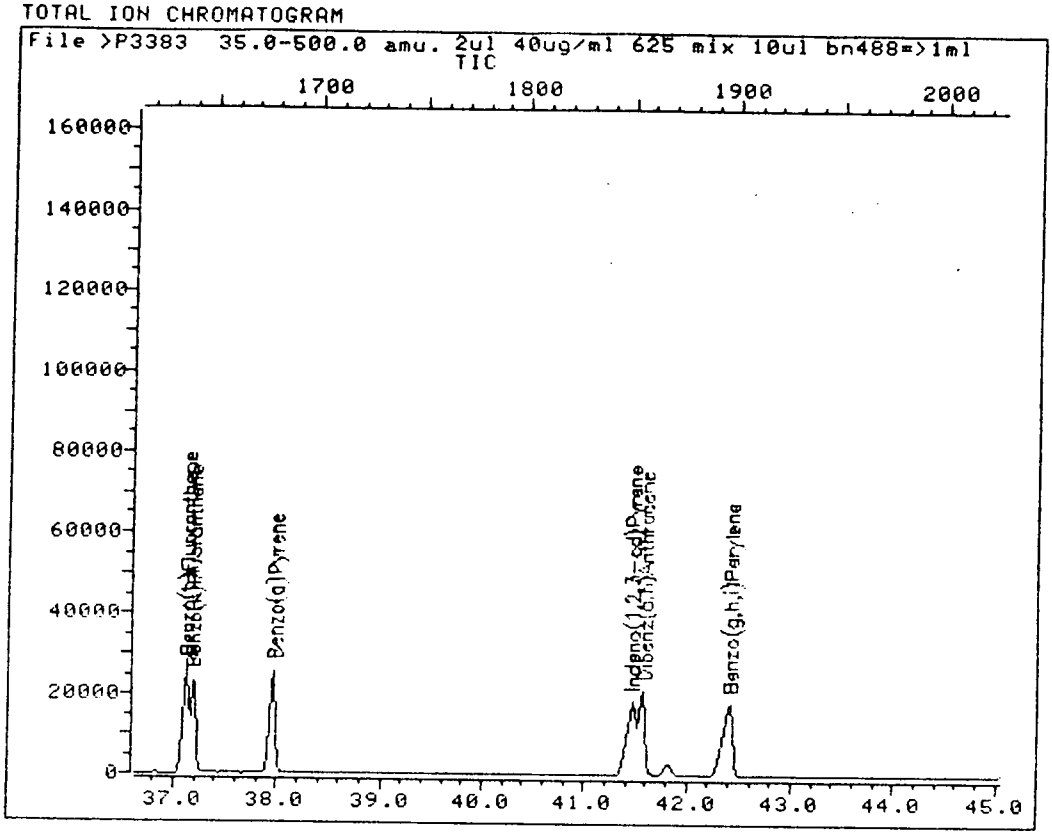
TOTAL ION CHROMATOGRAM



Data File: >P3383::B1
Name: 2ul 40ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Output File: ^P3383::QT

BTL#53

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

Operator ID: GLENN
Quant Time: 870909 13:55
Injected at: 870909 13:09

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QUANT REPORT

Operator ID: GLENN
Output File: ^P3383::QT
Data File: >P3383::81
Name: 2ul 40ug/ml 625 mix
Misc: 10ul bn488=>1ml

Quant Rev: 6 Quant Time: 870909 13:55
Injected at: 870909 13:09
Dilution Factor: 1.00000

BTL#53

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870908 16:21

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.07	359	20887	42.85	ug/mL	75
2)	N-Nitrosodimethylamine	4.69	46	12884	26.60	ug/mL	78
3)	2-Fluorophenol (SS)	8.62	239	31963	60.85	ug/mL	45
4)	Phenol	11.39	375	20918	21.26	ug/mL	86
5)	bis(-2-Chloroethyl)Ether	11.37	374	15364	20.91	ug/mL	62
6)	Phenol-d6 (SS)	11.35	373	42834	58.98	ug/mL	79
7)	2-Chlorophenol	11.41	376	14585	21.39	ug/mL	62
8)	1,3-Dichlorobenzene	11.74	392	15726	18.96	ug/mL	95
9)	1,4-Dichlorobenzene	11.90	400	16374	20.09	ug/mL	86
10)	1,2-Dichlorobenzene	12.43	426	15607	18.94	ug/mL	96
11)	bis(2-Chloroisopropyl)ether	12.94	451	49118	35.86	ug/mL	43
12)	N-Nitroso-Di-n-Propylamine	13.39	473	15953	22.52	ug/mL	66
13)	Hexachloroethane	13.31	469	7462	20.64	ug/mL	72
14)	*NAPHTHALENE-d8	15.63	583	34673	41.04	ug/mL	59
15)	Nitrobenzene-d5 (SS)	13.59	487	52952	114.39	ug/mL	77
16)	Nitrobenzene	13.66	486	21612	44.05	ug/mL	60
17)	Isophorone	14.39	522	40397	40.55	ug/mL	3[illegible]
18)	2-Nitrophenol	14.59	532	8152M	38.75	ug/mL	47
19)	2,4-Dimethylphenol	14.98	551	13112	46.25	ug/mL	91
20)	bis(-2-Chloroethoxy)Methane	15.20	562	20400	36.79	ug/mL	81
21)	2,4-Dichlorophenol	15.37	570	13768	42.80	ug/mL	97
22)	1,2,4-Trichlorobenzene	15.55	579	12679	31.54	ug/mL	95
24)	Hexachlorobutadiene	16.34	618	9445	37.85	ug/mL	89
25)	4-Chloro-3-Methylphenol	17.73	686	18023	46.72	ug/mL	84
26)	Hexachlorocyclopentadiene	18.58	728	10793M	44.54	ug/mL	
27)	2,4,6-Trichlorophenol	18.89	743	10012	21.91	ug/mL	95
28)	2-Chloronaphthalene	19.32	764	25433	20.90	ug/mL	99
29)	2-Fluorobiphenyl (SS)	19.16	756	56241	51.21	ug/mL	99
30)	Dimethyl Phthalate	20.62	823	30606	18.58	ug/mL	77
31)	Acenaphthylene	20.58	826	35431	19.53	ug/mL	35
32)	Acenaphthene	21.19	856	24348	19.45	ug/mL	95
33)	2,4-Dinitrophenol	21.44	868	4206	63.45	ug/mL	53
34)	4-Nitrophenol	21.93	892	6469	18.85	ug/mL	72
35)	2,4-Dinitrotoluene	21.95	893	6940	20.84	ug/mL	61
36)	2,6-Dinitrotoluene	20.76	835	8724	22.69	ug/mL	42
37)	Diethylphthalate	22.88	939	27372	16.25	ug/mL	98
38)	4-Chlorophenyl-phenylether	22.90	940	10979	16.13	ug/mL	75
39)	Fluorene	22.76	933	20734	14.86	ug/mL	86
40)	2,4,6-Tribromophenol (SS)	23.60	974	22687	66.54	ug/mL	79
41)	*PHENANTHRENE-d10	25.65	1075	29301	41.02	ug/mL	67
42)	4,6-Dinitro-2-methylphenol	23.21	955	6375M	90.98	ug/mL	
43)	N-Nitrosodiphenylamine	23.33	961	17115	42.86	ug/mL	95

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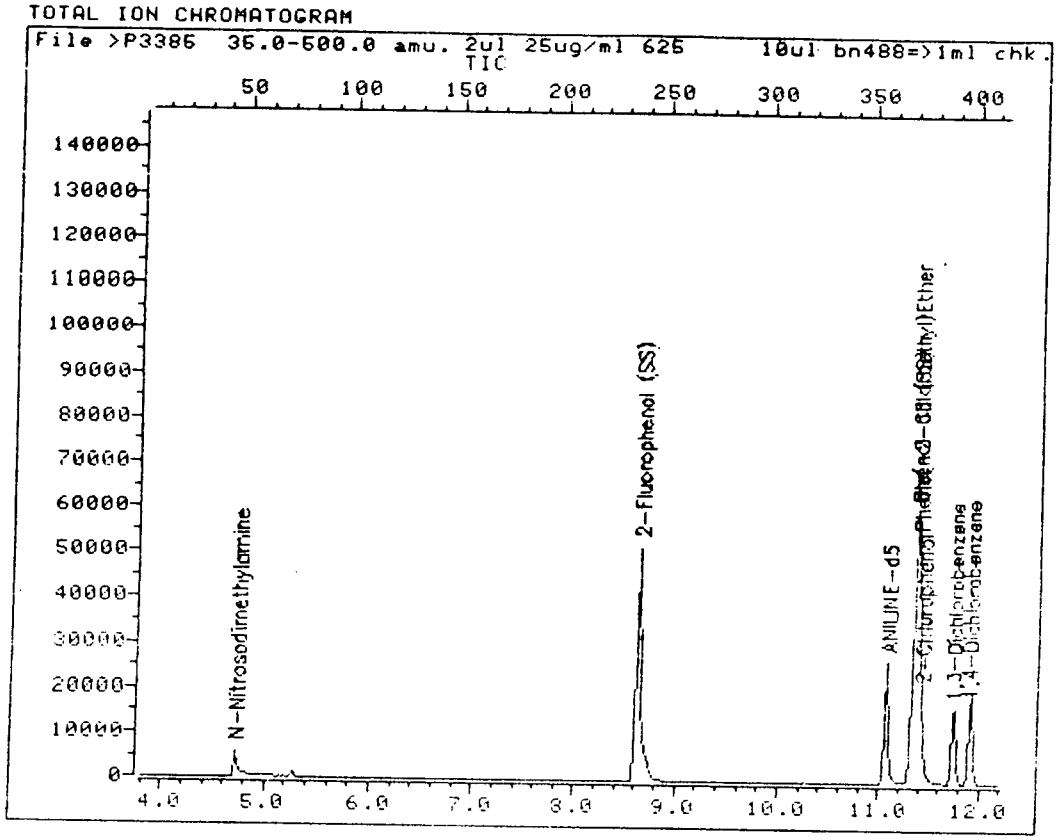
	Compound	R.T.	Scan#	Area	Conc	Units	q
45)	Hexachlorobenzene	24.74	1030	15209	47.01	ug/mL	71
46)	Pentachlorophenol	25.37	1061	7684	44.22	ug/mL	92
47)	Phenanthrene	25.74	1079	31235	37.29	ug/mL	50
48)	Anthracene	25.86	1085	33197	37.83	ug/mL	46
49)	Di-n-Butylphthalate	28.00	1190	45404	35.41	ug/mL	84
50)	Fluoranthene	29.44	1261	36635	33.71	ug/mL	73
51)	Terphenyl-d14 (SS)	30.87	1331	63917	102.12	ug/mL	39
52)	Benzidine	30.01	1289	10603	63.48	ug/mL	96
53)	Pyrene	30.12	1294	37615	38.62	ug/mL	53
54)	Butylbenzylphthalate	32.64	1418	22880	37.78	ug/mL	91
55)	3,3'-Dichlorobenzidine	34.01	1485	13991	51.55	ug/mL	94
56)	Benzo(a)Anthracene	33.92	1481	35496	36.88	ug/mL	74
57)	bis(2-Ethylhexyl)Phthalate	34.64	1516	30508	33.06	ug/mL	83
58)	Chrysene	34.07	1488	33225	35.37	ug/mL	98
59)	Di-n-Octyl Phthalate	36.45	1605	55912	33.95	ug/mL	100
60)	Benzo(b)Fluoranthene	37.12	1638	47861	48.10	ug/mL	93
61)	Benzo(k)Fluoranthene	37.18	1641	31964M	39.98	ug/mL	95
62)	Benzo(a)Pyrene	37.98	1680	38142	44.82	ug/mL	98
63)	Indeno(1,2,3-cd)Pyrene	41.46	1851	48620	62.85	ug/mL	92
64)	Dibenz(a,h)Anthracene	41.58	1857	46507	69.85	ug/mL	87
65)	Benzo(g,h,i)Perylene	42.42	1898	48431	65.17	ug/mL	76

* Compound is ISTD

TOTAL ION CHROMATOGRAM



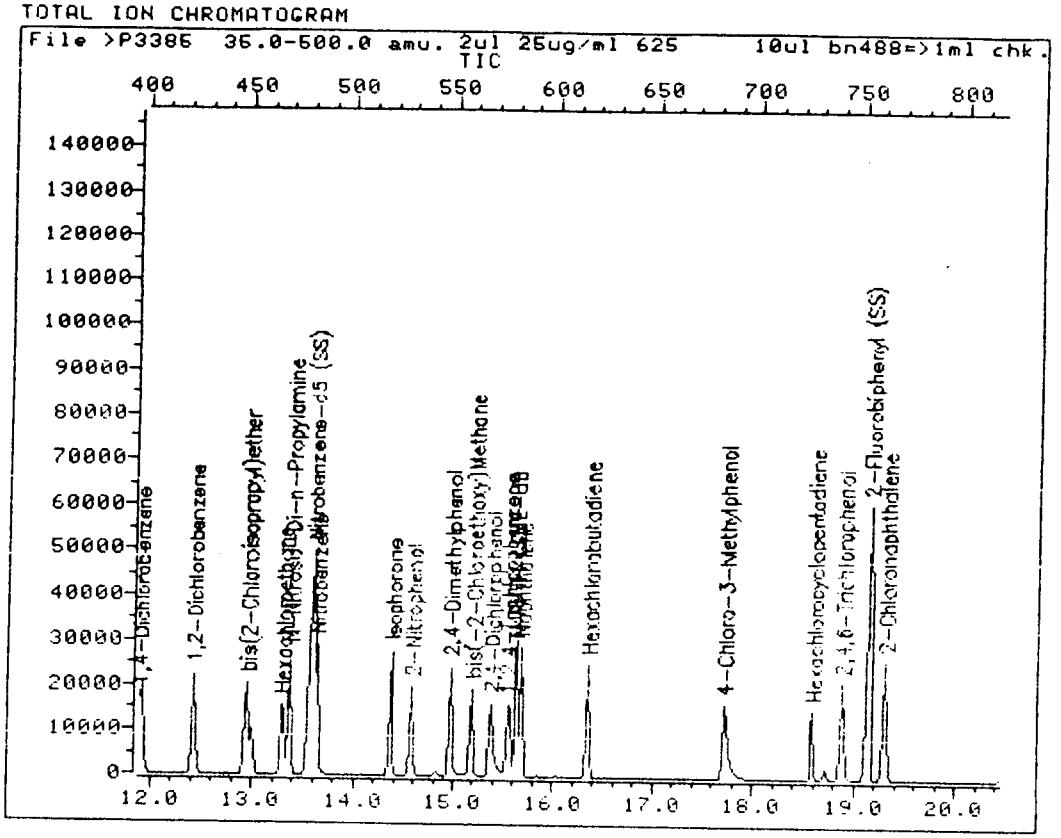
Data File: >P3385::B1 Quant Output File: ^P3385::QT
Name: 2ul 25ug/ml 625
Misc: 10ul bn488=>1ml chk. cal. BTL#58

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 15:45

Operator ID: GLENN
Quant Time: 870909 16:04
Injected at: 870909 15:18

TIC page 1 of 5

TOTAL ION CHROMATOGRAM



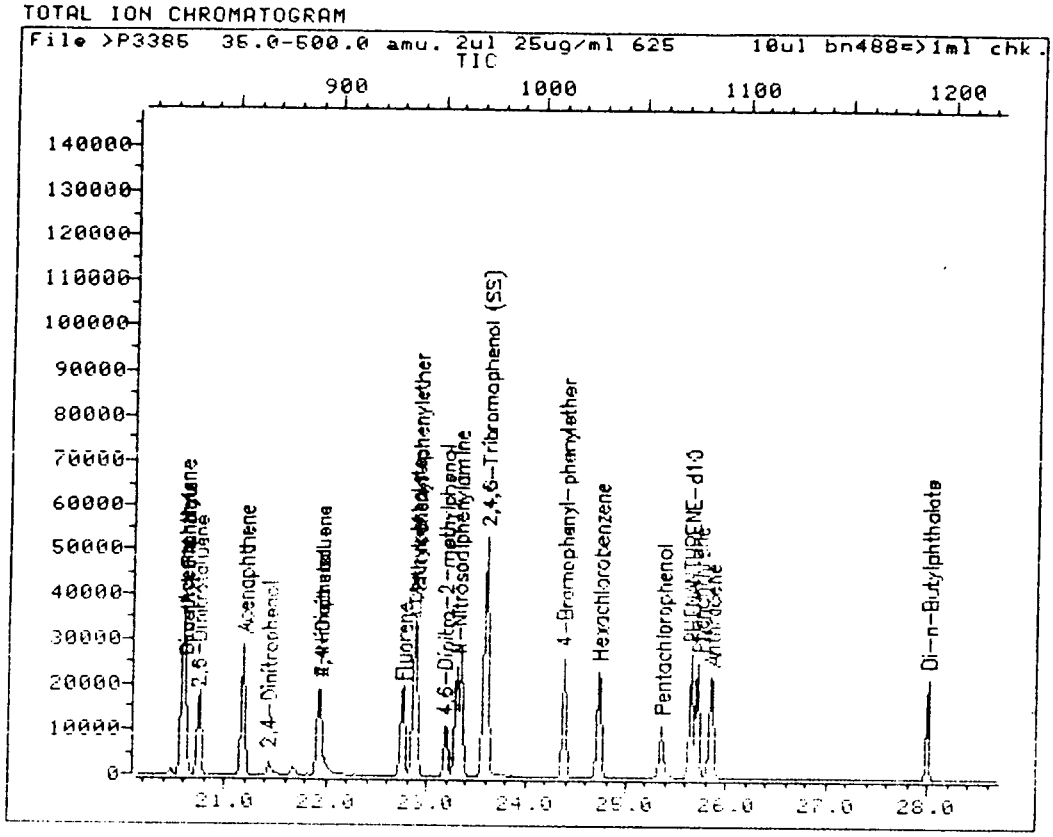
Data File: >P3385::B1 Quant Output File: ^P3385::QT
Name: 2ul 25ug/ml 625
Misc: 10ul bn488=>1ml chk. cal. BTL#58

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 15:45

Operator ID: GLENN
Quant Time: 870909 16:04
Injected at: 870909 15:18

TIC page 2 of 5

TOTAL ION CHROMATOGRAM



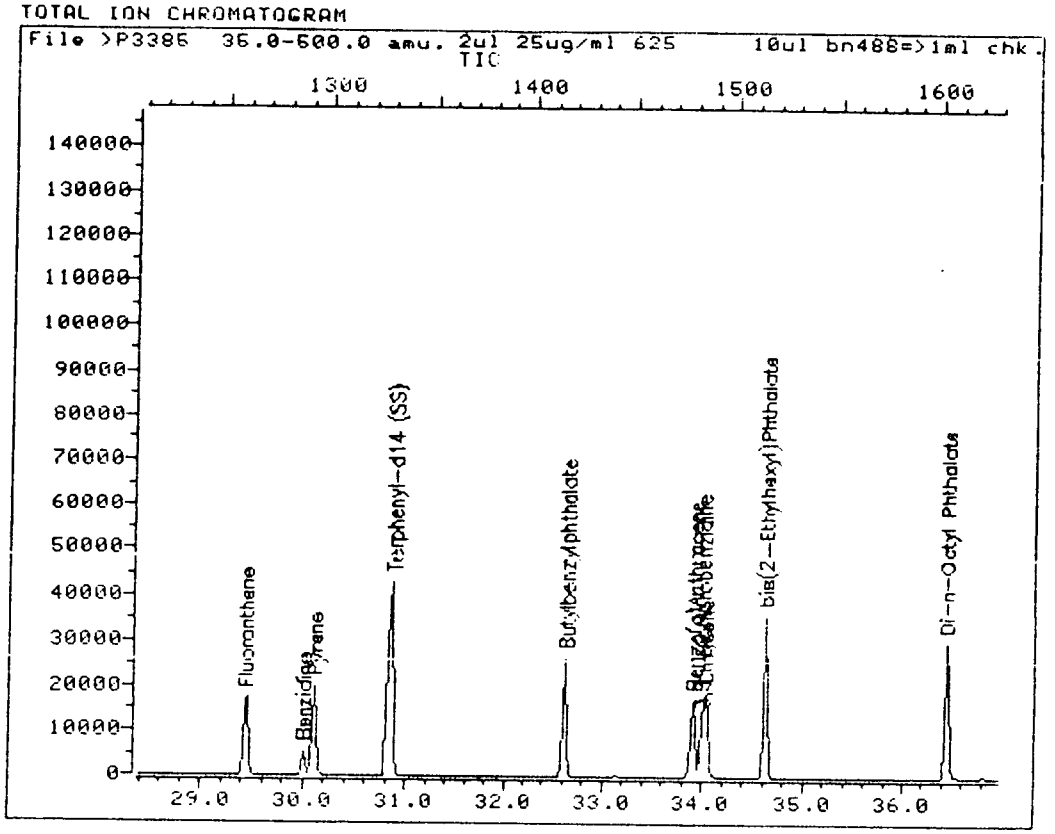
Data File: >P3385::B1 Quant Output File: ^P3385::QT
Name: 2ul 25ug/ml 625
Misc: 10ul bn488=>1ml chk. cal. BTL#5

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 15:45

Operator ID: GLENN
Quant Time: 870909 16:04
Injected at: 870909 15:18

TIC page 3 of 5

TOTAL ION CHROMATOGRAM



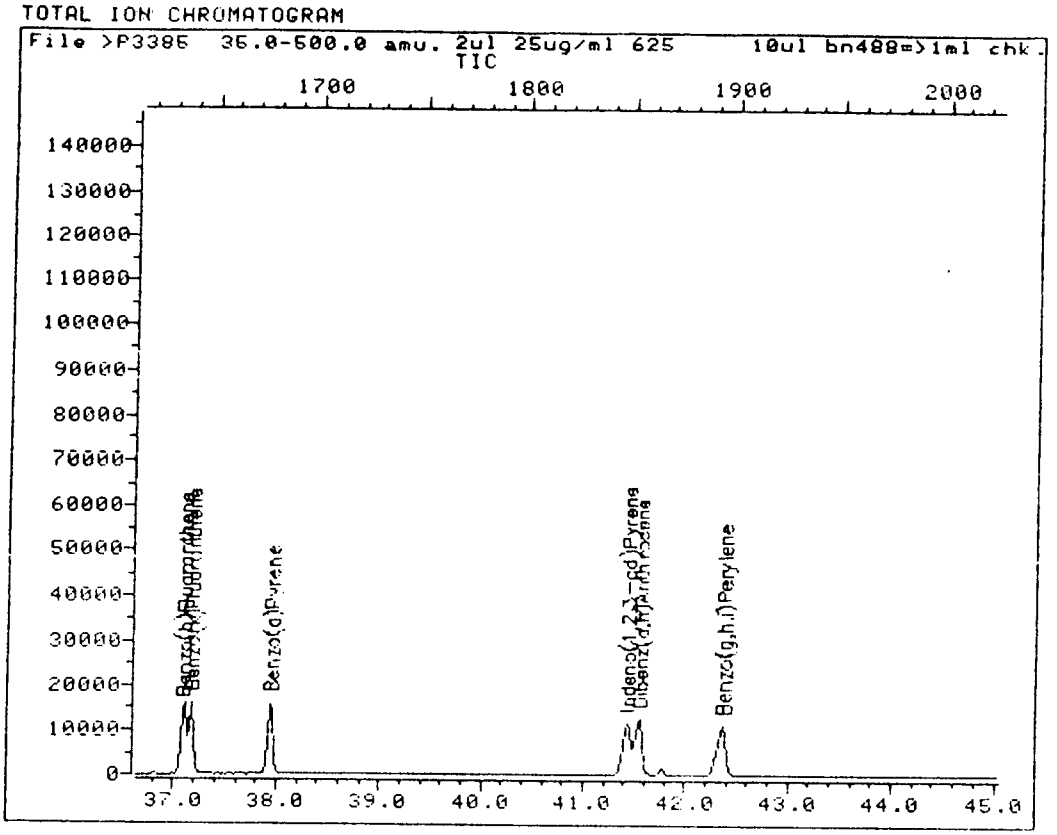
Data File: >P3385::B1 Quant Output File: ^P3385::QT
Name: 2ul 25ug/ml 625
Misc: 10ul bn488=>1ml chk. cal. BTL#55

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 15:45

Operator ID: GLENN
Quant Time: 870909 16:04
Injected at: 870909 15:18

TIC page 4 of 5

TOTAL ION CHROMATOGRAM



Data File: >P3385::B1 Quant Output File:

Name: 2ul 25ug/ml 625

Misc: 10ul bn488=>1ml

Id File:

Title:

Last Calibration:

Operator ID:

Quant Time: 870909 16:04

Injected at: 870909 15:18

TIC page 5 of 5

QUANT REPORT

Operator ID: GLENN
Output File: ^P3385::QT
Data File: >P3385::B1
Name: 2ul 25ug/ml 625
Misc: 10ul bn488=>1ml chk. cal.

Quant Rev: 6
Quant Time: 870909 16:04
Injected at: 870909 15:18
Dilution Factor: 1.00000

BTL#55

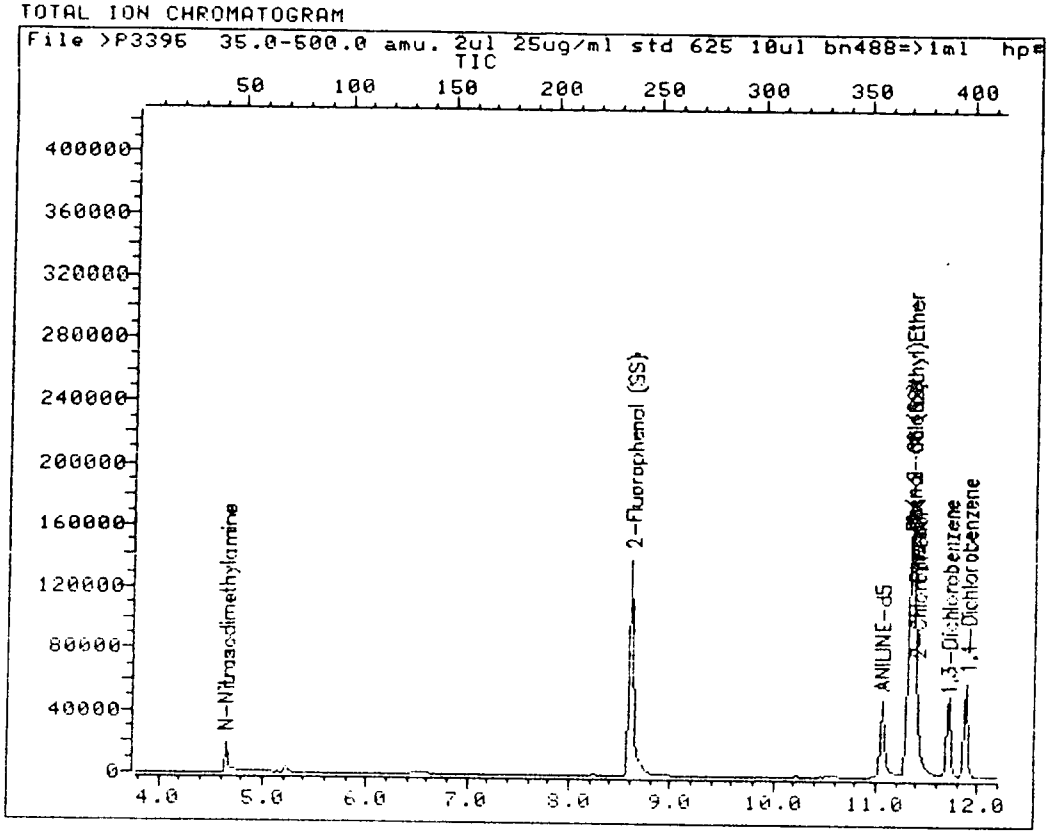
ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 15:45

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.08	359	21175	42.85	ug/mL	70
2)	N-Nitrosodimethylamine	4.72	47	6877M	26.91	ug/mL	61
3)	2-Fluorophenol (SS)	8.63	239	34969	106.60	ug/mL	36
4)	Phenol	11.38	374	12656	20.95	ug/mL	88
5)	bis(-2-Chloroethyl)Ether	11.36	373	10596	25.42	ug/mL	73
6)	Phenol-d6 (SS)	11.36	373	47524	107.25	ug/mL	78
7)	2-Chlorophenol	11.42	376	10323	25.79	ug/mL	58
8)	1,3-Dichlorobenzene	11.73	391	10510	23.28	ug/mL	94
9)	1,4-Dichlorobenzene	11.89	399	11564	24.32	ug/mL	85
10)	1,2-Dichlorobenzene	12.42	425	10321	22.99	ug/mL	94
11)	bis(2-Chloroisopropyl)ether	12.95	451	33617	25.23	ug/mL	42
12)	N-Nitroso-Di-n-Propylamine	13.38	472	10345	24.21	ug/mL	68
13)	Hexachloroethane	13.30	468	5081	24.08	ug/mL	59
14)	*NAPHTHALENE-d8	15.62	582	34261	41.04	ug/mL	59
15)	Nitrobenzene-d5 (SS)	13.60	483	49825	98.85	ug/mL	75
16)	Nitrobenzene	13.65	485	13830	24.45	ug/mL	66
17)	Isophorone	14.38	521	26381	24.65	ug/mL	37
18)	2-Nitrophenol	14.58	531	3336M	21.40	ug/mL	48
19)	2,4-Dimethylphenol	14.97	550	8810	25.71	ug/mL	93
20)	bis(-2-Chloroethoxy)Methane	15.19	561	13560	24.70	ug/mL	81
21)	2,4-Dichlorophenol	15.38	570	9059	24.90	ug/mL	88
22)	1,2,4-Trichlorobenzene	15.54	578	8341	23.71	ug/mL	95
23)	Naphthalene	15.68	585	25750M	23.14	ug/mL	
24)	Hexachlorobutadiene	16.35	618	6465	23.25	ug/mL	91
25)	4-Chloro-3-Methylphenol	17.72	685	11715	25.38	ug/mL	87
26)	Hexachlorocyclopentadiene	18.59	728	6475	23.54	ug/mL	86
27)	2,4,6-Trichlorophenol	18.88	742	6871	24.71	ug/mL	97
28)	2-Chloronaphthalene	19.31	763	16511	23.77	ug/mL	94
29)	2-Fluorobiphenyl (SS)	19.14	755	52721	102.47	ug/mL	99
30)	Dimethyl Phthalate	20.61	827	19704	23.86	ug/mL	73
31)	Acenaphthylene	20.59	826	22926	24.53	ug/mL	35
32)	Acenaphthene	21.18	855	15642	23.85	ug/mL	98
33)	2,4-Dinitrophenol	21.43	867	1608	18.71	ug/mL	55
34)	4-Nitrophenol	21.94	892	4182	25.31	ug/mL	55
35)	2,4-Dinitrotoluene	21.94	892	4852	27.51	ug/mL	51
36)	2,6-Dinitrotoluene	20.73	833	5349	24.68	ug/mL	70
37)	Diethylphthalate	22.87	938	20681	28.04	ug/mL	98
38)	4-Chlorophenyl-phenylether	22.89	939	8928	28.89	ug/mL	82
39)	Fluorene	22.75	932	15309	29.03	ug/mL	86
40)	2,4,6-Tribromophenol (SS)	23.61	974	26892	128.97	ug/mL	79
41)	*PHENANTHRENE-d10	25.64	1074	31954	41.02	ug/mL	66
42)	4,6-Dinitro-2-methylphenol	23.18	953	4017M	24.87	ug/mL	

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	4-Bromophenyl-phenylether	24.38	1012	7893	25.80	ug/mL	89
45)	Hexachlorobenzene	24.73	1029	11979	25.58	ug/mL	69
46)	Pentachlorophenol	25.36	1060	4862	24.61	ug/mL	92
47)	Phenanthrene	25.72	1078	23901	24.99	ug/mL	49
48)	Anthracene	25.85	1084	25089	25.23	ug/mL	45
49)	Di-n-Butylphthalate	28.01	1190	27082	20.32	ug/mL	85
50)	Fluoranthene	29.43	1260	22059	20.96	ug/mL	72
51)	Terphenyl-d14 (SS)	30.88	1331	57170	83.28	ug/mL	40
52)	Benzidine	30.00	1288	5309	24.07	ug/mL	96
53)	Pyrene	30.10	1293	22332	20.69	ug/mL	53
54)	Butylbenzylphthalate	32.63	1417	13985	21.20	ug/mL	91
55)	3,3'-Dichlorobenzidine	33.99	1484	7895	23.00	ug/mL	93
56)	Benzo(a)Anthracene	33.91	1480	20568	21.80	ug/mL	74
57)	bis(2-Ethylhexyl)Phthalate	34.63	1515	18407	21.40	ug/mL	82
58)	Chrysene	34.03	1486	19835	21.67	ug/mL	95
59)	Di-n-Octyl Phthalate	36.44	1604	33588	22.59	ug/mL	100
60)	Benzo(b)Fluoranthene	37.09	1636	23780	20.87	ug/mL	99
61)	Benzo(k)Fluoranthene	37.17	1640	17945M	24.04	ug/mL	98
62)	Benzo(a)Pyrene	37.95	1678	22452	23.94	ug/mL	96
63)	Indeno(1,2,3-cd)Pyrene	41.43	1849	26998	23.89	ug/mL	93
64)	Dibenz(a,h)Anthracene	41.55	1855	26623	23.95	ug/mL	87
65)	Benzo(g,h,i)Perylene	42.37	1895	27486	23.77	ug/mL	77

* Compound is ISTD

TOTAL ION CHROMATOGRAM



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Name: 2ul 25ug/ml std 625
Misc: 10ul bn488=>1ml hp#2

Quant Output File: ^P3395::QT

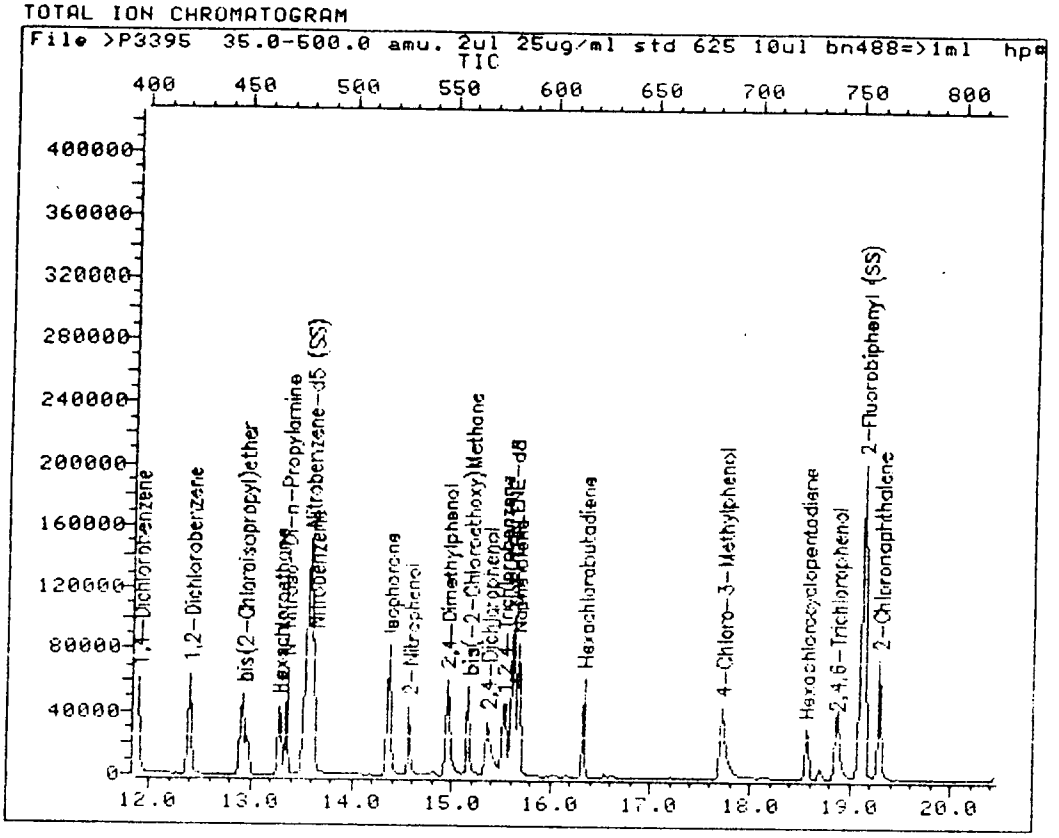
BTL#50

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870910 15:03
Injected at: 870910 14:16

TIC page 1 of 9

TOTAL ION CHROMATOGRAM



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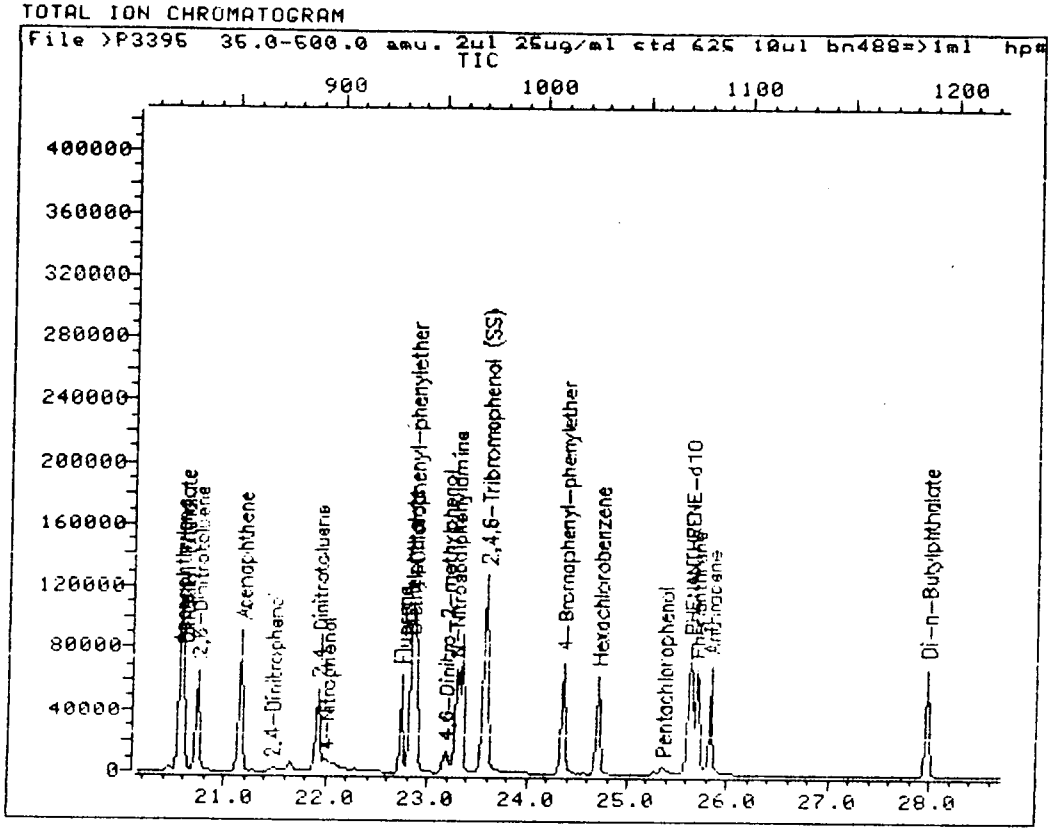
Name: 2ul 25ug/ml std 625
Misc: 10ul bn488=>1ml hp#2 BTL #50

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870910 15:03
Injected at: 870910 14:16

TIC page 2 of 5

TOTAL ION CHROMATOGRAM



Data File: >P3395::B1
Name: 2ul 25ug/ml std 625
Misc: 10ul bn488=>1ml hp#2

Quant Output File: ^P3395::QT

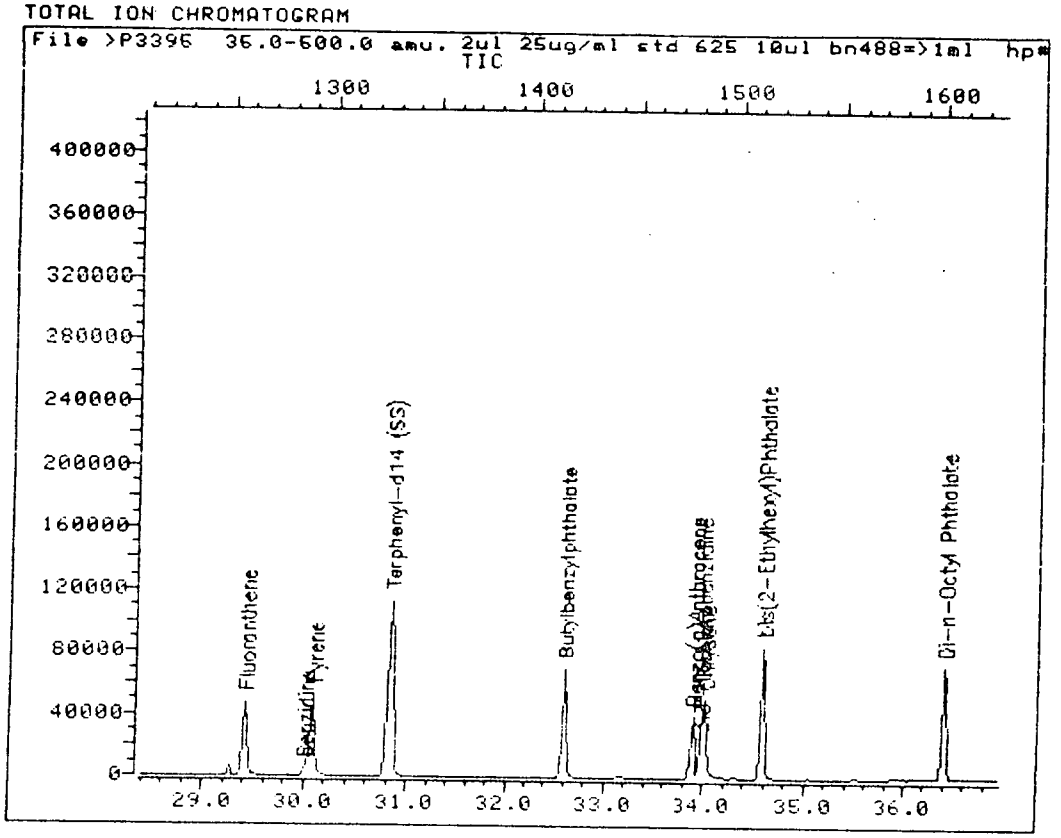
BTL#50

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870910 15:03
Injected at: 870910 14:16

TIC page 3 of 9

TOTAL ION CHROMATOGRAM



Data File: >P3395::B1
Name: 2ul 25ug/ml std 625
Misc: 10ul bn488=>1ml hp#2

Quant Output File: ^P3395::QT

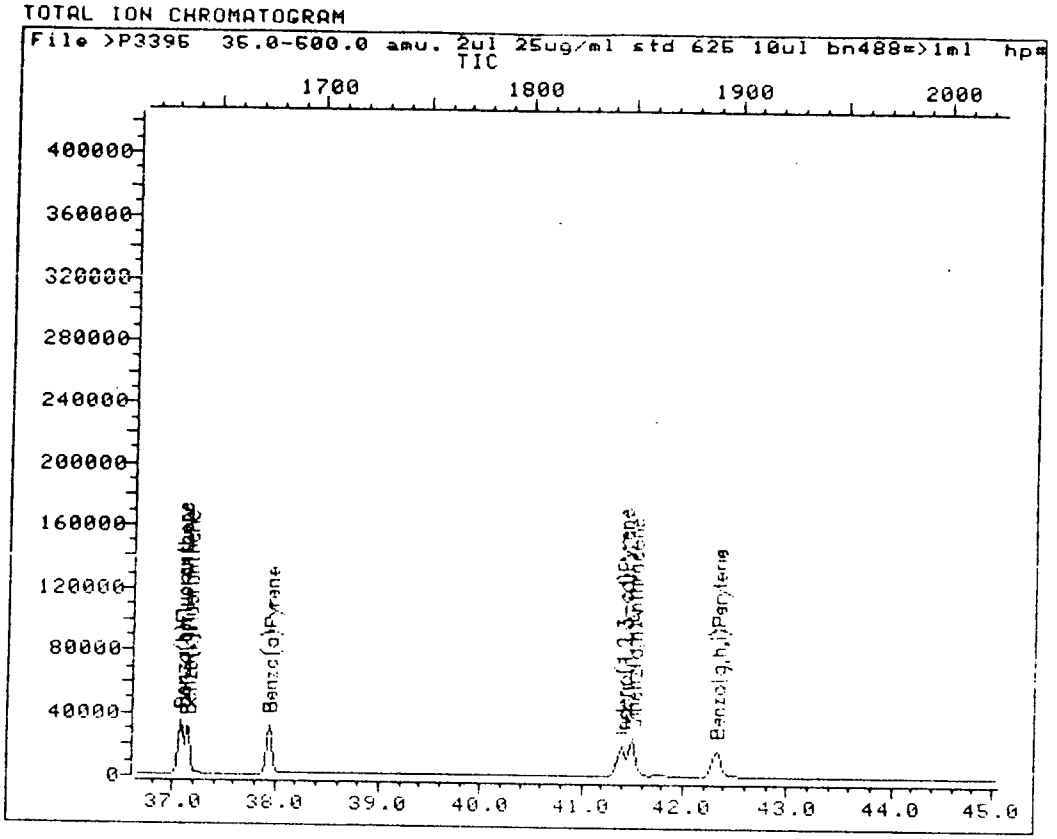
BTL#50

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870910 15:03
Injected at: 870910 14:16

TIC page 4 of 5

TOTAL ION CHROMATOGRAM



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Name: 2ul 25ug/ml std 625
Misc: 10ul bn488=>1ml hp#2

Quant Output File: ^P3395::QT

BTL#50

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870910 15:03
Injected at: 870910 14:16

TIC page 5 of 5

QUANT REPORT

Operator ID: GLENN
Output File: ^P3395::QT
Data File: >P3395::B1
Name: 2ul 25ug/ml std 625
Misc: 10ul bn488=>1ml hp#2

Quant Rev: 6 Quant Time: 870910 15:03
Injected at: 870910 14:16
Dilution Factor: 1.00000

BTL#50

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.05	358	56676M	42.85	ug/mL	
2)	N-Nitrosodimethylamine	4.64	43	22634	30.74	ug/mL	86
3)	2-Fluorophenol (SS)	8.61	238	97202	107.78	ug/mL	54
4)	Phenol	11.38	374	47880	35.34	ug/mL	85
5)	bis(-2-Chloroethyl)Ether	11.34	372	32163	28.35	ug/mL	77
6)	Phenol-d6 (SS)	11.34	372	144411	115.32	ug/mL	90
7)	2-Chlorophenol	11.40	375	27788	25.14	ug/mL	61
8)	1,3-Dichlorobenzene	11.71	390	29360	26.09	ug/mL	94
9)	1,4-Dichlorobenzene	11.89	399	31789	25.68	ug/mL	92
10)	1,2-Dichlorobenzene	12.40	424	29743	26.92	ug/mL	95
11)	bis(2-Chloroisopropyl)ether	12.93	450	77077	21.42	ug/mL	45
12)	N-Nitroso-Di-n-Propylamine	13.36	471	31670	28.59	ug/mL	80
13)	Hexachloroethane	13.28	467	13861	25.48	ug/mL	79
14)	*NAPHTHALENE-d8	15.62	582	110399	41.04	ug/mL	63
15)	Nitrobenzene-d5 (SS)	13.58	482	165689	107.10	ug/mL	78
16)	Nitrobenzene	13.62	484	44013	24.69	ug/mL	64
17)	Isophorone	14.36	520	83511	24.56	ug/mL	3[illegible]
18)	2-Nitrophenol	14.56	530	11377M	26.46	ug/mL	51
19)	2,4-Dimethylphenol	14.95	549	2[illegible]44	27.73	ug/mL	9[illegible]
20)	bis(-2-Chloroethoxy)Methane	15.17	560	43291	24.77	ug/mL	89
21)	2,4-Dichlorophenol	15.36	569	26766	23.61	ug/mL	93
22)	1,2,4-Trichlorobenzene	15.52	577	23679	22.03	ug/mL	97
23)	Naphthalene	15.66	584	82483M	24.85	ug/mL	51
24)	Hexachlorobutadiene	16.33	617	15679	18.82	ug/mL	88
25)	4-Chloro-3-Methylphenol	17.72	685	36953	24.47	ug/mL	83
26)	Hexachlorocyclopentadiene	18.55	726	11531	13.82	ug/mL	91
27)	2,4,6-Trichlorophenol	18.86	741	17699	21.22	ug/mL	9[illegible]
28)	2-Chloronaphthalene	19.29	762	52708	24.77	ug/mL	92
29)	2-Fluorobiphenyl (SS)	19.13	754	17384[illegible]	100.[illegible]	ug/mL	9[illegible]
30)	Dimethyl Phthalate	20.59	826	64539	25.41	ug/mL	79
31)	Acenaphthylene	20.98	843	76357	25.[illegible]	ug/mL	3[illegible]
32)	Acenaphthene	21.16	854	51006	25.30	ug/mL	96
33)	2,4-Dinitrophenol	21.47	869	4603M	22.23	ug/mL	93
34)	4-Nitrophenol	22.09	895	10563	19.60	ug/mL	68
35)	2,4-Dinitrotoluene	21.92	891	17492	27.97	ug/mL	79
36)	2,6-Dinitrotoluene	20.74	833	16280	27.61	ug/mL	29
37)	Diethylphthalate	22.84	936	69195	25.96	ug/mL	97
38)	4-Chlorophenyl-phenylether	22.86	937	25579	22.23	ug/mL	93
39)	Fluorene	22.73	931	47126	23.88	ug/mL	89
40)	2,4,6-Tribromophenol (SS)	23.59	973	48880	58.04	ug/mL	81
41)	*PHENANTHRENE-d10	25.63	1073	90462	41.02	ug/mL	72
42)	4,6-Dinitro-2-methylphenol	23.18	953	8035	17.66	ug/mL	28

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45)	Hexachlorobenzene	24.71	1028	24819	18.30 ug/mL	82
46)	Pentachlorophenol	25.36	1060	3584	6.51 ug/mL	93
47)	Phenanthrene	25.69	1076	68137	25.17 ug/mL	49
48)	Anthracene	25.83	1083	72347	25.46 ug/mL	45
49)	Di-n-Butylphthalate	27.97	1188	80882	26.37 ug/mL	85
50)	Fluoranthene	29.42	1259	57418	22.99 ug/mL	81
51)	Terphenyl-d14 (SS)	30.85	1329	144692	89.45 ug/mL	41
52)	Benzidine	30.01	1288	9794	16.29 ug/mL	94
53)	Pyrene	30.09	1292	57762	22.84 ug/mL	63
54)	Butylbenzylphthalate	32.60	1415	41143	25.98 ug/mL	92
55)	3,3'-Dichlorobenzidine	33.98	1483	15432	17.26 ug/mL	90
56)	Benzo(a)Anthracene	33.90	1479	46198	19.83 ug/mL	75
57)	bis(2-Ethylhexyl)Phthalate	34.59	1513	52786	25.32 ug/mL	85
58)	Chrysene	34.02	1485	43908	19.55 ug/mL	99
59)	Di-n-Octyl Phthalate	36.41	1602	87385	22.97 ug/mL	100
60)	Benzo(b)Fluoranthene	37.08	1635	48974	18.19 ug/mL	93
61)	Benzo(k)Fluoranthene	37.14	1638	32329M	15.91 ug/mL	95
62)	Benzo(a)Pyrene	37.94	1677	49710	19.55 ug/mL	91
63)	Indeno(1,2,3-cd)Pyrene	41.40	1847	49285	16.12 ug/mL	76
64)	Dibenz(a,h)Anthracene	41.51	1852	41299	13.70 ug/mL	96
65)	Benzo(g,h,i)Perylene	42.32	1892	41849	13.45 ug/mL	89

* Compound is ISTD

WARNING: FMP -6 on ::

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PESTICIDE EVALUATION STANDARDS SUMMARY

(Page 1)

Case No.: SEMI-VOL Region : V Laboratory : HOM LABS

Contractor No.: Column : SP8608

Date of Analysis : 9/14/87 - 9/15/87 Instrument ID : HP5890

Evaluation Check for Linearity

CONFIRMATORY DOWN

LABORATORY ID	152	153	154	
PESTICIDE	Calibration Factor Eval. Mix A	Calibration Factor Eval. Mix B	Calibration Factor Eval. Mix C	%RSD (<= 10%)
ALDRIN	6977	7905	9348	14.9
ENDRIN	3058	2849	3096	3.6
(1) 4,4'-DDT	1421	1253	1621	10.0
DIBUTYL CHLORENDATE	1919	2448	2461	11.1

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WARNING: FMP -6 on ::

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PESTICIDE EVALUATION STANDARDS SUMMARY

(Page 1)

Case No.: SEMI-VOL Region : V Laboratory : HZM LABS

Contractor No.: 1 Column : 1.5% SP-2250/1.95% SP-2

Date of Analysis : 9/15/87 Instrument ID : TRACER 550 ON 160/12 SUPELCOPT

Evaluation Check for Linearity

PRIMARY COLUMN

LABORATORY ID	4612	4613	4614	
PESTICIDE	Calibration Factor Eval. Mix A	Calibration Factor Eval. Mix B	Calibration Factor Eval. Mix C	%RSD (<= 10%)
ALDRIN	172.2	189.7	175.5	4.2
ENDRIN	145.0	145.6	137.9	2.4
(1) 4,4'-DDT	67.5	67.1	72.6	6.9
DIBUTYL CHLORENDATE	127.9	155.5	147.7	8.1

PESTICIDE/PCB STANDARDS SUMMARY

Case No.: SEMI-UNI
Contractor No.:

Laboratory : H2M LABS
GC Column : 1.5% SP-2250 + 1.95% SP-2401 on 100/120 SUPELCOPORT
GC Instrument ID : TRACOR 550

PRIMARY COLUMN

COMPOUND	DATE OF ANALYSIS 9/9/87 TIME OF ANALYSIS 20:11/20:43 LABORATORY ID 4615/4616 RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	DATE OF ANALYSIS 9/10/87 - 9/10/87 TIME OF ANALYSIS 7:23/15:40 LABORATORY ID 4636/4647 RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC	2.13	2.09-2.17	233.9	Q	2.14	249.4	Q	6.6
beta-BHC	3.01	2.95-3.07	83.1	Q	3.01	95.3	Q	14.7
delta-BHC	3.49	3.42-3.56	159.4	Q	3.49	169.6	Q	6.4
gamma-BHC	2.65	2.59-2.71	248.0	Q	2.56	247.2	Q	<1.0
Heptachlor	3.21	3.15-3.27	265.2	Q	3.10	211.6	Q	20.2
Aldrin	3.86/3.86	3.79-3.93	295.3/301.2	Q	3.74/3.87	290.5/298.0	Q	1.6/1.1
Heptachlor Epoxide	5.66	5.55-5.77	233.9	Q	5.47	238.7	Q	2.1
Endosulfan I	7.09	6.95-7.23	264.6	Q	6.85	260.5	Q	1.5
Dieldrin	8.59	8.43-8.75	279.5	Q	8.31	257.3	Q	7.9
4,4'-DDE	8.14	7.98-8.30	224.7	Q	8.16	247.0	Q	9.9
Endrin	10.39	10.18-10.60	194.5	Q	10.06	180.3	Q	7.3
Endosulfan II	12.53	12.28-12.78	243.4	Q	12.13	219.6	Q	9.8
4,4'-DDD	12.33	12.09-12.57	152.1	Q	12.38	164.0	Q	7.8
Endosulfan Sulfate	19.55	19.15-19.95	59.7 ~~161.7~~ MLK	Q	19.51	~~195.7~~ MLK 43.4	Q	27.3
4,4'-DDT	14.72	14.42-15.02	81.5	Q	14.27	86.8	Q	6.5
Methoxychlor	27.79	27.25-28.33	53.5	Q	27.03	61.2	Q	14.4
Endrin Ketone	26.31	25.79-26.83	108.3	Q	26.27	112.8	Q	4.2
Tech. Chlordane	6.10	5.98-6.22	112.9	Q				
alpha-Chlordane *								
gamma-Chlordane *								
Toxaphene	8.32	8.15-8.49	27.3	C				
Arochlor-1016	3.83	3.75-3.91	66.8	Q				
Arochlor-1221	1.91	1.87-1.95	12.9	Q				
Arochlor-1232	3.10	3.04-3.16	32.9	Q				
Arochlor-1242	3.10	3.04-3.16	71.6	Q				
Arochlor-1248	5.68	5.57-5.79	90.4	Q				
Arochlor-1254	9.93	9.73-10.13	128.8	Q				
Arochlor-1260	11.05	10.83-11.29	145.2	Q				
ENDRIN ALDEHYDE	16.28	15.96-16.60	161.7		16.32	175.7	Q	

* SEE EXHIBIT E, PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)
QUANT. = QUANTITATION (<15% DIFFERENCE)

PESTICIDE/PCB STANDARDS SUMMARY

Case No.: SEMI-UNL
Contractor No.:

Laboratory : H2M LABS
GC Column : 1.5% SP-2250 ~~+ 1.95%~~ SP-2401 on 100/120 SUPELCOPORT
GC Instrument ID : TRACOR 550

PRIMARY COLUMN

	DATE OF ANALYSIS 9/9/87 TIME OF ANALYSIS 20:11/20:43 LABORATORY ID 4615/4616				DATE OF ANALYSIS 9/11/87 TIME OF ANALYSIS LABORATORY ID 4659/4669			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC	2.13	2.09-2.17	233.9	Q	2.14	224.4	Q	4.1
beta-BHC	3.01	2.95-3.07	83.1	Q	3.02	78.8	Q	5.2
delta-BHC	3.49	3.42-3.56	159.4	Q	3.49	151.4	Q	5.0
gamma-BHC	2.65	2.59-2.71	248.0	Q	2.55	260.5	Q	5.0
Heptachlor	3.21	3.15-3.27	265.2	Q	3.11	286.9	Q	8.2
Aldrin	3.86/3.86	3.79-3.93	296.3/306.2	Q	3.79/3.86	320.8/298.0	Q	8.6/1.0
Heptachlor Epoxide	5.66	5.55-5.77	233.9	Q	5.54	251.0	Q	7.3
Endosulfan I	7.09	6.95-7.23	264.6	Q	6.97	280.3	Q	5.9
Dieldrin	8.59	8.43-8.75	279.5	Q	8.47	269.2	Q	3.7
4,4'-DDE	8.14	7.98-8.30	224.7	Q	8.16	192.5	Q	14.3
Endrin	10.39	10.18-10.60	194.5	Q	10.26	175.9	Q	9.6
Endosulfan II	12.53	12.28-12.78	243.4	Q	12.38	259.4	Q	6.6
4,4'-DDD	12.33	12.09-12.57	152.1	Q	12.35	149.8	Q	1.5
Endosulfan Sulfate	19.55	19.15-19.95	59.7	Q	19.58	53.9	Q	9.7
4,4'-DDT	14.72	14.42-15.02	81.5	Q	14.56	90.1	Q	10.6
Methoxychlor	27.79	27.25-28.33	53.5	Q	27.53	67.1	Q	25.4*
Endrin Ketone	26.31	25.79-26.83	108.3	Q	26.18	111.3	Q	2.8
Tech. Chlordane								
alpha-Chlordane *								
gamma-Chlordane *								
Toxaphene								
Arochlor-1016								
Arochlor-1221								
Arochlor-1232								
Arochlor-1242								
Arochlor-1248								
Arochlor-1254								
Arochlor-1260								
ENDRIN ALDEHYDE	16.28	15.96-16.60	161.7		16.27	161.3		

* SEE EXHIBIT E, PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)
QUANT. = QUANTITATION (<15% DIFFERENCE)

PESTICIDE/PCB STANDARDS SUMMARY

Case No.: SEMI-UNK
Contractor No.:

Laboratory : HZM LABS
GC Column : SPB-608

GC Instrument ID : HP5890

CONFIRMATORY

	DATE OF ANALYSIS 9/14/87 TIME OF ANALYSIS 12:01:33/12:52:39 LABORATORY ID 155/156				DATE OF ANALYSIS 9/15/87 TIME OF ANALYSIS 1:16:87 LABORATORY ID			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC	17.21	17.18-17.24	5108	C				
beta-BHC	19.54	19.50-19.58	2179	C				
delta-BHC	21.76	21.72-21.80	2236	C				
gamma-BHC	19.11	19.07-19.15	5196	C	19.07	6051	C	16.5
Heptachlor	21.48	21.44-21.52	9999	C	21.44	9893	C	1.1
Aldrin	23.14/23.13	23.08-23.18	7106/5202	C	23.11	7999	C	12.6
Heptachlor Epoxide	25.13	25.08-25.18	6215	C	25.10	6369	C	2.5
Endosulfan I	26.19	26.14-26.24	6158	C	26.17	5988	C	2.8
Dieldrin	26.97	26.92-27.02	5339	C	26.95	5363	C	<1
4,4'-DDE	26.71	26.66-26.76	3098	C	27.80			
Endrin	27.88	27.82-27.94	3396	C	28.33	3076	C	9.4
Endosulfan II	28.36	28.30-28.42	3878	C	28.33	3749	C	3.3
4,4'-DDD	28.11	28.05-28.17	1770	C				
Endosulfan Sulfate	28		2394 true	C				
4,4'-DDT	28.95	28.89-29.01	2207	C	28.92	1826	C	17.3
Methoxychlor	31.31	31.25-31.37	1590	C	31.26	1467	C	7.7
Endrin Ketone	32.02	31.96-32.08	2447					
Tech. Chlordane	25.69	25.64-25.74	535					
alpha-Chlordane *								
gamma-Chlordane *								
Toxaphene								
Arochlor-1016	21.37	21.33-21.41	45454					
Arochlor-1221								
Arochlor-1232								
Arochlor-1242								
Arochlor-1248								
Arochlor-1254								
Arochlor-1260	30.61	30.55-30.67	44969					
ENDRIN ALDEHYDE	29.18	29.12-29.24	2162					

* SEE EXHIBIT E, PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)
QUANT. = QUANTITATION (<15% DIFFERENCE)

Evaluation of Retention time Shift for: Dibutyl Chlorendate
Report all standards, blanks and samples

PRIMARY COLUMN 25.436

NYSDEC Sample No.	Lab I.D.	Time of Analysis	Percent Diff.
PS1782	4612	9/9/87 18:29:10	—
PS1781	4613	19:03:41	0.1
PS1780	4614	19:38:32	0.8
PS1788	4615	20:11:57	0.3
PS1789	4616	20:43:22	0.6
PS1732	4617	21:14:45	*
PS1730	4618	21:46:11	*
PS1761	4619	22:17:36	*
PS1763	4620	22:49:08	*
PS1766	4621	23:20:33	*
PS1764	4622	23:52:18	*
PS1767	4623	9/10/87 00:24:03	*
PS1798	4624	00:55:32	*
PS MIX			
BSA 0819785	4625	01:26:59	<0.1
BSA 0819785	4626	01:58:30	0.6
BSA 0819785 MOD	4627	02:31:46	0.7
BSA 0819786	4628	03:03:18	0.3
BSA 0819787	4629	03:34:45	0.5
PS1781	4630	04:06:17	1.0
BSA 0819788	4631	04:39:49	3.6
BSA 0819789	4632	05:14:40	3.8
BSA 0819790	4633	05:48:38	2.4
BSA 0819789 MOD	4634	06:20:39	1.1
BSA 0819790 MOD	4635	06:52:09	1.3
PS1788	4636	07:23:40	1.1
BSA 0819791	4637	07:55:08	0.2
BSA 0819792	4638	08:26:37	<0.1
FIELD BLANK	4639	08:58:07	0.1
METHOD BLANK 18	4640	09:30:21	4.0
METHOD BLANK 18	4641	10:03:15	3.5

NYSDEC Sample No.	Lab I.D.	Time of Analysis	Percent Diff.
PS1781	4642	10:35:43	<0.1
PS1796 THRU ALUMINA	4643	11:07:04	1.4
BSA 0819785	4644	11:43:46	0.4
BSA 0819789	4645	12:46:11	1.6
ALUMINA BLANK	4646	15:09:08	2.8
PS1789	4647	15:40:48	3.3
PS1781	4653	18:51:04	1.8
BSA 0819785 ORTHO PART	4654	9/11/87 11:29:15	1.1
BSA 0819785 M,P DIP	4655	12:02:20	1.0
PS1788	4659	14:08:15	0.5
PS1781	4665	18:00:21	1.8
BSA 0819785	4666	18:31:48	2.6
BSA 0819789	4667	19:03:18	3.1
BSA 0819786	4668	19:34:46	2.7
PS1789	4669	20:06:11	2.9
—			

* NO DBC IN MULTICOMPONENT STANDARDS

WARNING: FMP -6 on ::

.....

PESTICIDE/PCB IDENTIFICATION

Case No.: SEMI-VOL

Contractor No.:

Laboratory : H2M LABS

SAMPLE ID	PRIMARY COLUMN	PESTICIDE/ PCB	RT OF TENTATIVE ID	RT WINDOW OF APPROPRIATE STANDARD	CONFIRMATION COLUMN	RT ON CONFIRMATORY COLUMN	RT WINDOW OF APPROPRIATE STANDARD	GC/MS CONFIRMED (Y or N)
BSA08197786	R-2	δ-BHC	3.29	3.24-3.39	—	—	—	
		HEPT. EPOX	5.77	5.72-5.99	—	—	—	—
BSA08197787	R-2	α-BHC	2.13	2.09-2.17				
		ALDRIN	3.93	3.79-3.93	SPB608	23.16	23.08-23.18	
		HEPT. EPOX	5.62	5.55-5.77	↓	↓ HCB	↓ HCB	
BSA08197788	R-2	ALDRIN	3.75	3.71-3.85	↓	↓	↓	
		AROCLOR 1260	10.76	10.63-11.09	SPB608	29.66	29.62-29.74	
BSA08197789	R-2	α-BHC	2.11	2.09-2.17	↓	↓	↓	
		ALDRIN	3.89	3.79-3.93	↓	23.12	23.08-23.18	
		HEPT EPOX	5.58	5.55-5.77	↓	25.12	25.08-25.18	
		ENDOSULFAN I	7.11	6.95-7.23		—	—	
BSA08197790	R-2	α-BHC	2.09	2.09-2.17		—	—	
		β-BHC	2.99	2.95-3.07		—	—	
FIELDBLANK	R-2	HEPTACHLOR	3.17	3.15-3.27		—	—	
		ALDRIN	3.80	3.79-3.93		—	—	

4/84

749

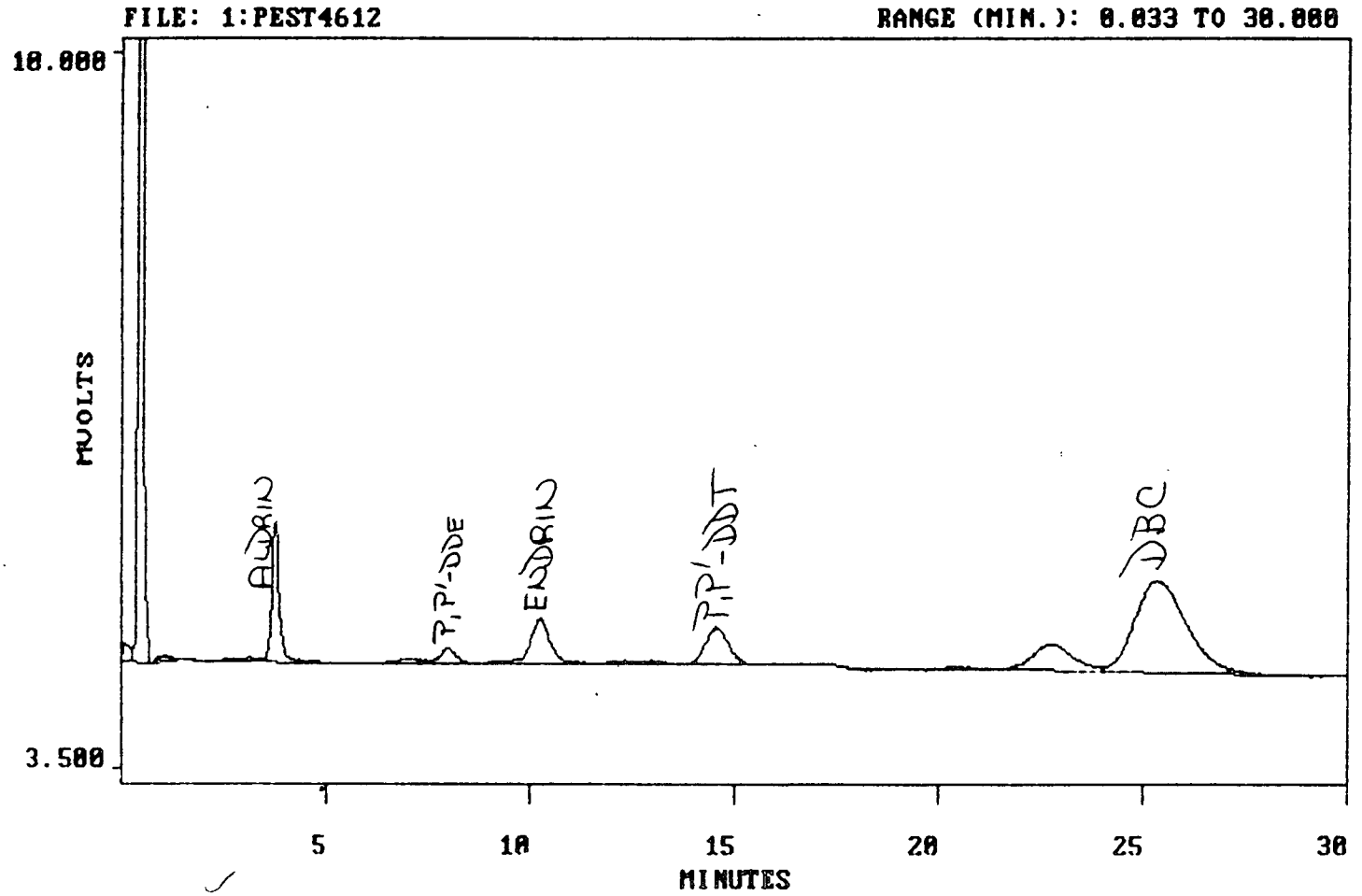
Form X

PS1782
Evaluation Mix A

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:09:26:54 Date:THU 10 SEP 87

Time:18:29:10 Date:WED 09 SEP 87
Method:PEST1



Channel #.....4 Time:18:59:47 Date:WED 09 SEP 87
Run #2 of 50

Sample name.....
Data file.....DAT351:PEST4612
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....18:29:10 Acq. date....WED 09 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..17
Vol. Inj.....5.0 ul Sample amount .1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.042	alpha-BHC	0	
2.575	LINDANE	0	
2.924	beta-BHC	0	
3.393	delta-BHC	0	
5.760	HEPTACHLOR EPOXI.	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
27.978	DBC/METHOX/END.K	0	

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AREA PERCENT REPORT

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Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.117			0.116	2169	174	BV
2	0.494			91.929	1717385	487609	VB

3	1.075		0.078	1447	72	BB
4	3.106	~~HEPTACHLOR~~ MLR	0.039	720	34	VV
5	3.754	ALDRIN	0.922	17223	1352	VB
6	7.067	~~ENDOSULFAN I~~ MLR	0.089	1656	31	BV
7	7.985	P,P'-DDE	0.204	3812	141	VV
8	10.243		0.776	14495	418	VB
9	12.222	P,P'-DDD	0.070	1304	33	BV
10	12.967	~~ENDOSULFAN II~~ MLR	0.061	1133	33	VB
11	14.533	P,P-DDT	0.723	13500	337	BB
12	20.367		0.046	868	21	BB
13	22.824 S	~~MIREX (STD.)~~ MLR	0.839	15672	233	BV
14	25.436	DBC (	4.109	76771	860	VB
TOTALS			100.000	1868157		

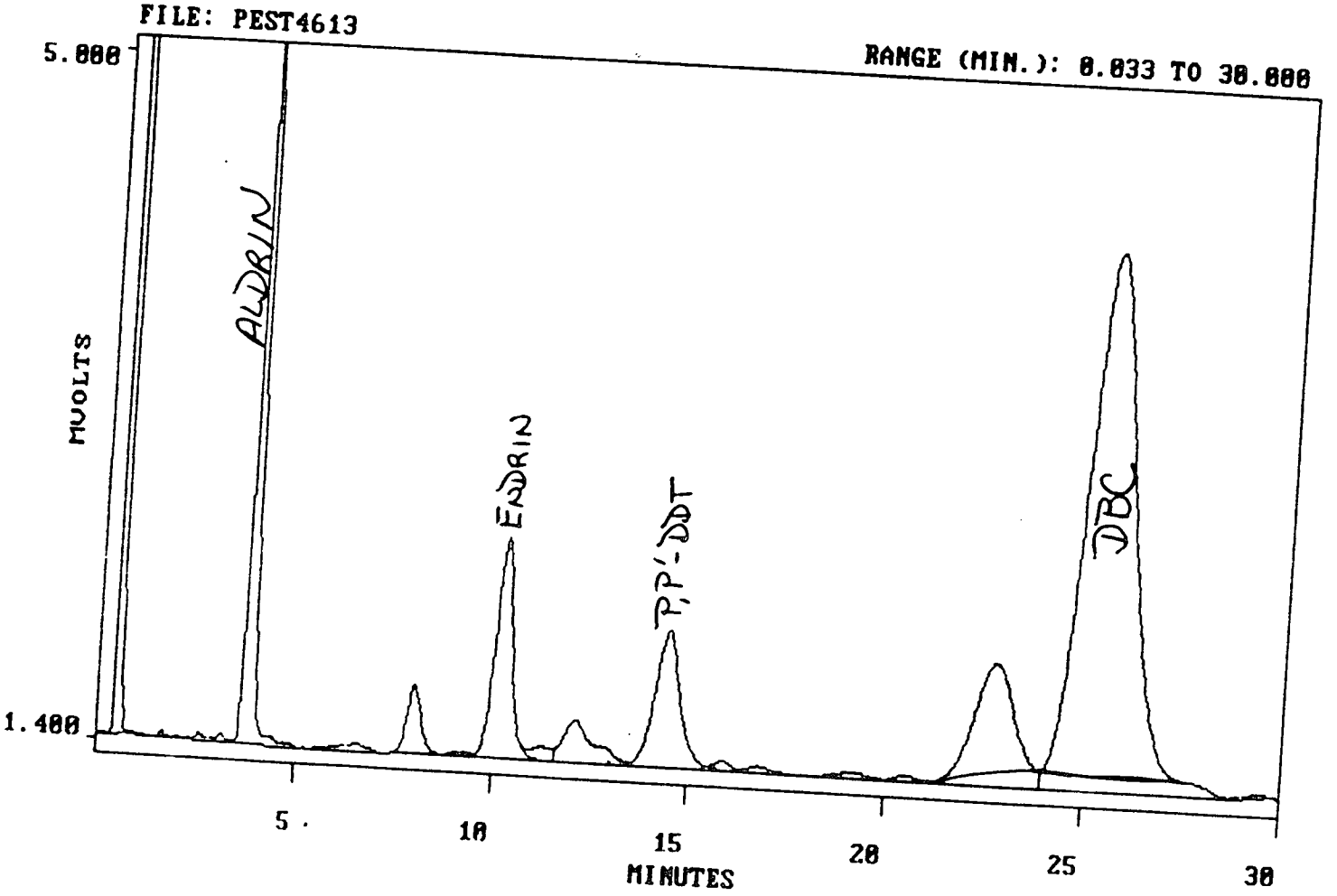
PS1781

EVALUATION MIX B

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time: 15:58:25 Date: MON 14 SEP 87

Time: 19:03:41 Date: WED 09 SEP 87
Method: PEST1



Channel #.....REMNT Time:15:56:30 Date:MON 14 SEP 87

Sample name.....
Data file.....PEST4613
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....19:03:41 Acq. date....WED 09 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0 70 uv/sec.

Area reject....500
peaks found..22
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.042	alpha-BHC	0	
2.924	beta-BHC	0	
3.393	delta-BHC	0	
5.760	HEPTACHLOR EPOXI	0	
7.139	ENDOSULFAN I	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
12.395	P,P'-DDD	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
27.978	DBC/METHOX/END.K	0	

==========

AREA PERCENT REPORT

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Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.501			67.230	940492	356654	BB
2	2.573		~~LINDANE~~ MLC	0.056	780	38	VV
3	3.133		~~HEPTACHLOR~~ MLC	0.044	621	41	VV
4	3.756		ALDRIN	3.391	47440	3975	VB

5	6.517			0.151	2108	43	BB
6	7.968		P,P'-DDE	0.665	9300	368	BE
7	9.200			0.068	947	28	EV
8	10.167		ENDRIN	2.601	36391	1198	VE
9	11.233			0.203	2839	73	EV
10	12.061			0.958	13407	229	EV
11	14.402		P,P'-DDT	2.399	33558	745	VE
12	15.878			0.120	1672	52	EV
13	16.800		~~ENDRIN ALDEHYDE~~ M4	0.118	1656	40	EB
14	19.173			0.149	2082	35	BV
15	20.548			0.097	1356	37	VV
16	22.745	S	~~MIREX (STD.)~~	3.579	50062 -29000	665	VV
17	25.406		DBC	18.108	253320	2932	VB
18	29.520			0.063	880	20	BB
TOTALS				100.000	1398911		

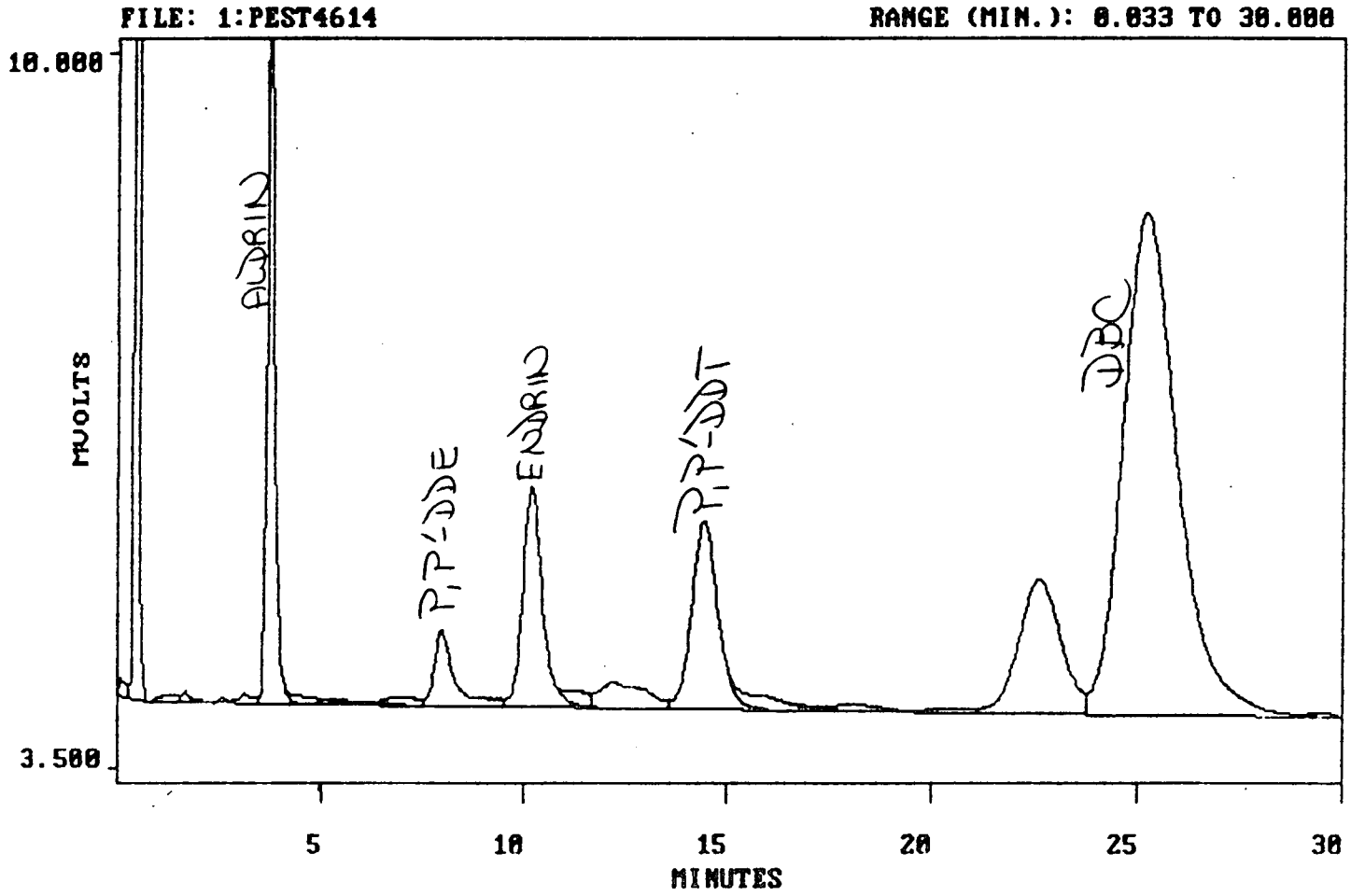
PS1780

EVALUATION MIX C

Time:09:30:50 Date:THU 10 SEP 87

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:19:38:32 Date:WED 09 SEP 87
Method:PEST1



Channel #.....4 Time:20:09:10 Date:WED 09 SEP 87
Run #4 of 50

Sample name.....
Data file.....DAT351:PEST4614
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....19:38:32 Acq. date....WED 09 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0

Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..20
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.924	beta-BHC	0	
3.393	delta-BHC	0	
5.760	HEPTACHLOR EPOXI	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
27.978	DBC/METHOX/END.K	0	

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AREA PERCENT REPORT

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Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.112			0.082	2030	168	BV
2	0.491			64.973	1598898	467798	VB
3	1.300			0.095	2346	67	BV

4	1.671			0.053	1299	117	VV
5	1.978		~~alpha-BHC~~ MLR	0.024	590	40	VV
6	2.550		~~LINDANE~~ MLR	0.038	937	58	VV
7	3.119		~~HEPTACHLOR~~ MLR	0.081	1988	96	VV
8	3.743		ALDRIN	3.567	87772	6862	VE
9	4.412			0.226	5568	76	EV
10	7.080		~~ENDOSULFAN I~~ MLR	0.188	4630	75	EV
11	7.974		P,P'-DDE	1.022	25158	702	VV
12	10.186		ENDRIN	2.802	68965	2079	VE
13	11.289			0.221	5433	126	EV
14	12.178		P,P'-DDD	0.799	19673 60000	238	EV
15	14.431		P,P'-DDT	3.763	92591	1786	VE
16	17.971			0.218	5373	58	EV
17	20.667			0.111	2737	38	EV
18	22.613	S	~~MIREX (STD.)~~ MLR	3.679	90547	1267	VV
19	25.229		DBC	18.008	443151	4768	VE
20	29.511			0.048	1187	36	EB
TOTALS				100.000	2460873		

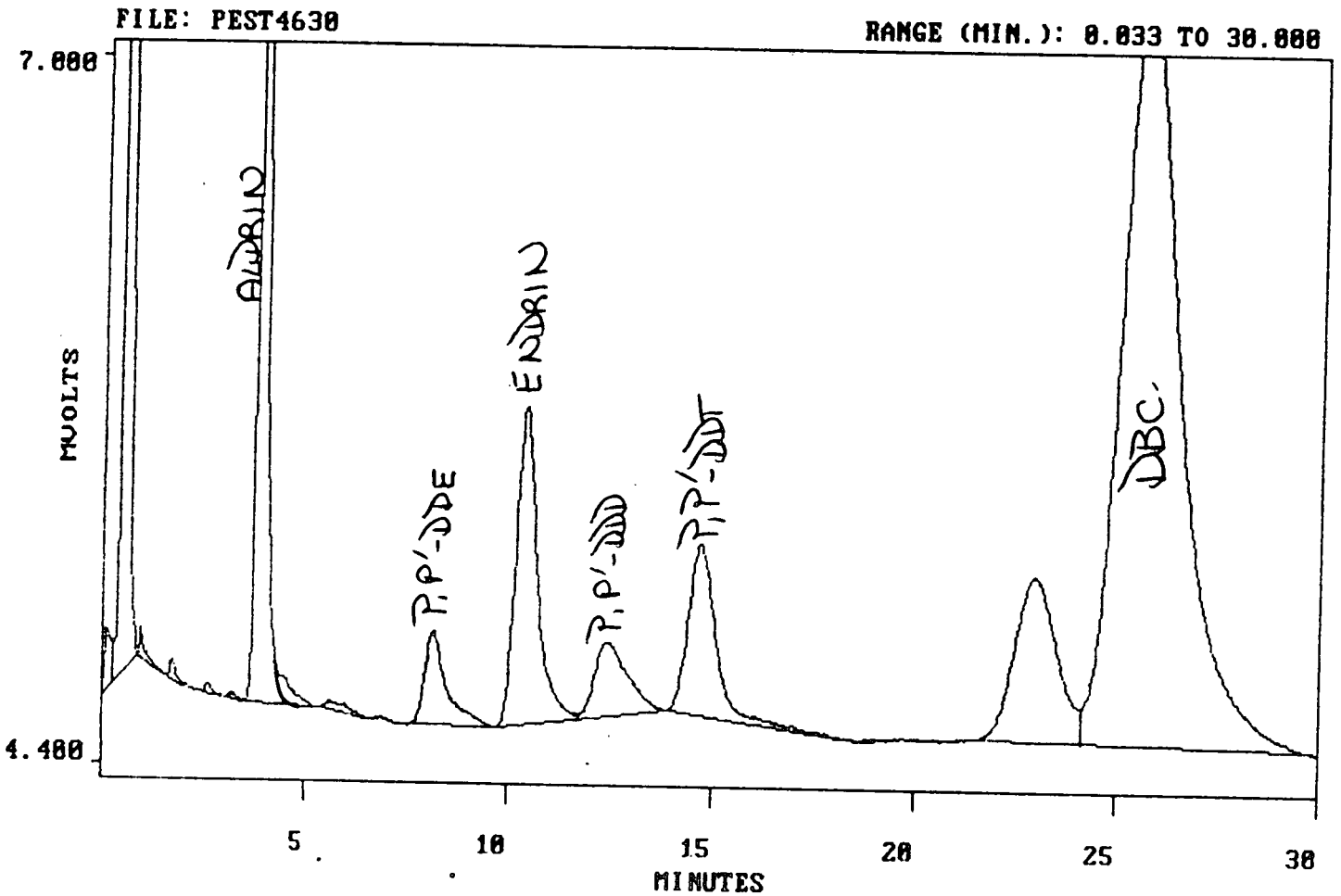
PS1781

EVALUATION MIX B

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:16:17:37 Date:MON 14 SEP 87

Time:04:06:17 Date:THU 10 SEP 87
Method:PEST1



Channel #.....REINT Time:16:15:59 Date:MON 14 SEP 87

Sample name.....
Data file.....PEST4630
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....04:06:17 Acq. date....THU 10 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..15
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.042	alpha-BHC	0	
2.575	LINDANE	0	
2.924	beta-BHC	0	
3.130	HEPTACHLOR	0	
3.393	delta-BHC	0	
5.760	HEPTACHLOR EPOXI	0	
7.139	ENDOSULFAN I	0	
8.710	DIELDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
27.978	QBC/METHOX/END.K	0	

==========

AREA PERCENT REPORT

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Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.150			0.089	3005	238	BV
2	0.516			84.868	2871800	574199	VB
3	0.965			0.031	1038	115	BB
4	1.735			0.018	599	70	BB

5	3.842	ALDRIN	1.711	57914-8000	3628	BB
6	5.530		0.032	1085	25	BB
7	8.129	P,P'-DDE	0.399	13511	353	BB
8	10.369	ENDRIN	1.293	43767	1217	BV
9	12.419	P,P'-DDD	0.468	15827	278	VB
10	14.674	P,P'-DDT	0.940	31792	652	BB
11	23.021 S	MIREX (STD.)	1.376	46578	624	BV
12	25.686		8.774	296911	2909	VB
TOTALS			100.000	3383827		

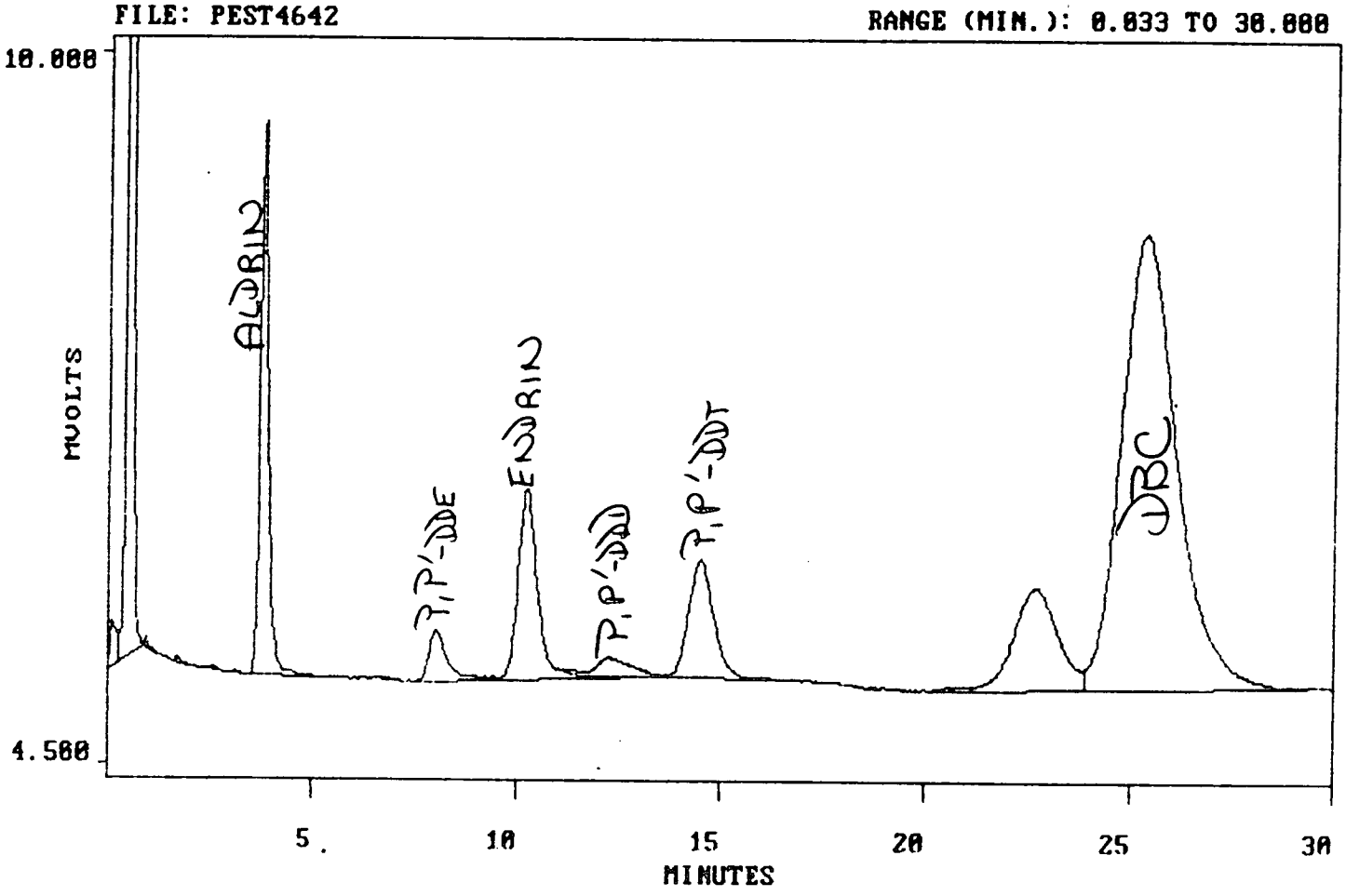
PS1781

Evaluation Std Mix B

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:17:17:28 Date:MON 14 SEP 87

Time:10:35:43 Date:THU 10 SEP 87
Method:PEST1



Channel #.....REINT Time:17:16:31 Date:MON 14 SEP 87

Sample name.....
Data file.....PEST4642
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....10:35:43 Acq. date....THU 10 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..15
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.042	alpha-BHC	0	
2.575	LINDANE	0	
2.924	beta-BHC	0	
3.130	HEPTACHLOR	0	
3.393	delta-BHC	0	
5.760	HEPTACHLOR EPOXI	0	
7.139	ENDOSULFAN I	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
27.978	DBC/METHOX/END.K	0	

==========

AREA PERCENT REPORT

==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.134			0.146	4679	366	BV
2	0.509			81.493	2612693	586904	VB
3	3.787		ALDRIN	1.919	61528	4548	BB

4	8.008	P,P'-DDE	0.404	12941	402	BV
5	10.227	ENDRIN	1.563	50115	1524	VE
6	12.256	P,P'-DDD	0.305	9780	152	EB
7	14.496	P,P'-DDT	1.248	40027	939	BE
8	22.736 S	~~MIREX (STD. MIX~~	1.937	62100	807	BV
9	25.412	DBC	10.985	352178	3661	VB
TOTALS			100.000	3206041		

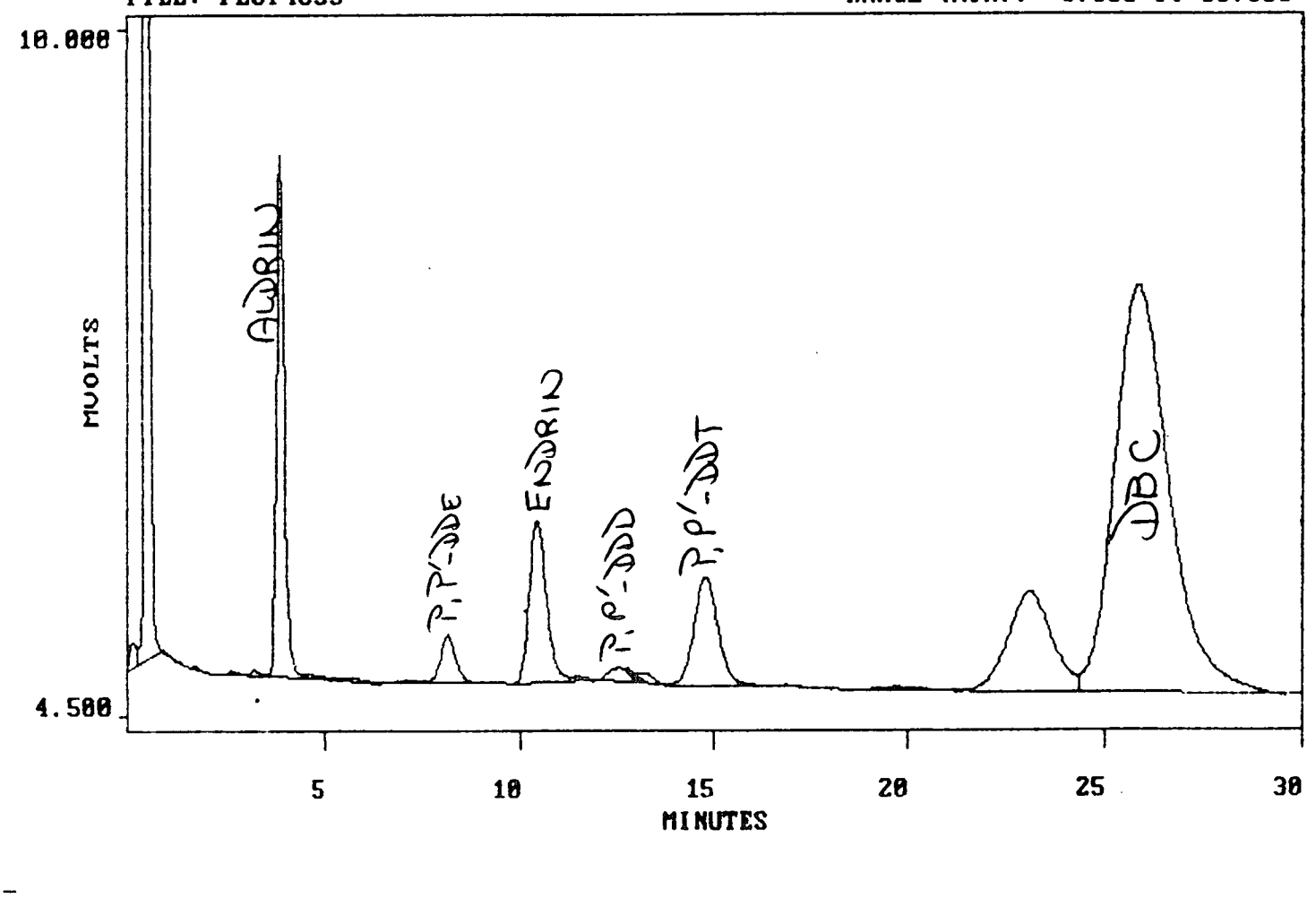
PS1781

EVALUATION Std MIX B

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:11:16:50 Date:MON 14 SEP 87

Time:18:51:04 Date:THU 10 SEP 87
Method:PEST1



Channel #.....REINT Time:11:14:55 Date:MON 14 SEP 87

Sample name.....
Data file.....PEST4653
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....18:51:04 Acq. date....THU 10 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..16
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.042	alpha-BHC	0	
2.924	beta-BHC	0	
3.393	delta-BHC	0	
5.760	HEPTACHLOR EPOXI	0	
7.139	ENDOSULFAN I	0	
8.710	DIELDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
27.978	DBC/METHOX/END.K	0	

==========

AREA PERCENT REPORT

==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.176			0.092	2921	216	BV
2	0.522			82.552	2616854	588921	VB

3	2.642	~~LINDANE~~ MCL	0.019	618	37	BV
4	3.244	~~HEPTACHLOR~~ MCL	0.017	524	41	VB
5	3.864	ALDRIN	1.770	56120	4368	BE
6	4.596		0.027	866	28	EB
7	5.506		0.018	556	11	BB
8	8.140	P,P'-DDE	0.361	11459	*393	BB
9	10.437	ENDRIN	1.357	43013	1359	BB
10	12.525	P,P'-DDD	0.227	~~2199~~ 3000 MCL	117	BB
11	14.784	P,P'-DDT	1.215	38520	896	BB
12	19.700		0.091	2874	33	BV
13	23.150 S	MIREX (STD.)	2.044	64795	829	VV
14	25.896		10.209	323633	3410	VB
TOTALS			100.000	3169947		

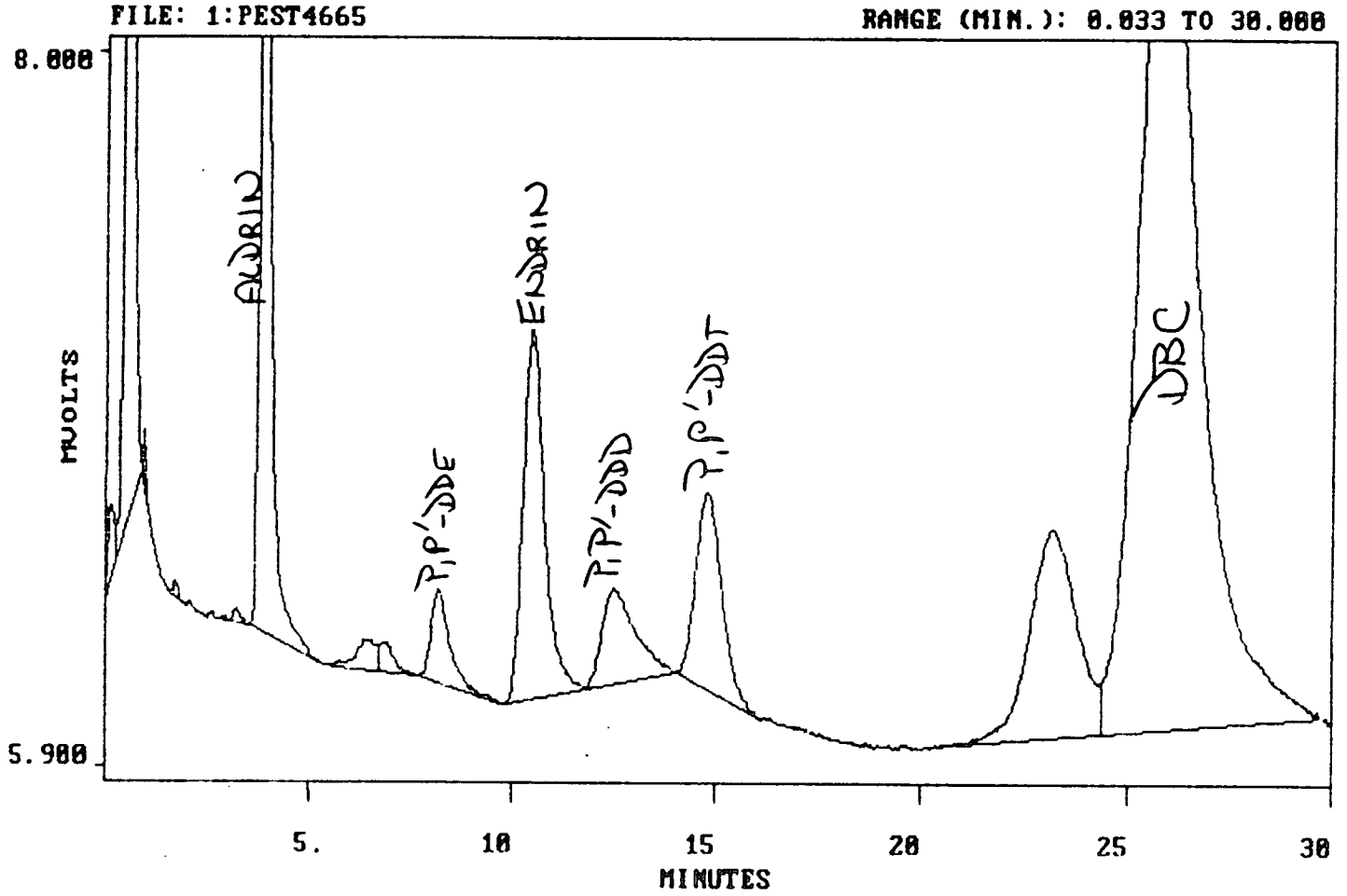
PS1781

Evaluation Std Mix B

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:16:38:57 Date:MON 14 SEP 87

Time:18:00:21 Date:FRI 11 SEP 87
Method:PEST1



Channel # . . . REINT Time:16:28:25 Date:MON 14 SEP 87

Sample name . . . . . .
Data file 1:PEST4665
Method name PEST1

Author . . . . . URM
Instrument . . . 4
Column . . . . . 1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes . . . . . SUPELCOPORT

Run time . . . . 30.00 min. Delay time . . 0.00 min.
Acq time . . . . 18:00:21 Acq. date . . . FRI 11 SEP 87
Start PW . . . . 20.00 sec. End PW . . . . . 150.00 sec.
Actual PW . . . 140.0
Slope sens . . 0.70 uv/sec.

Area reject . . 500
peaks found . 16
Vol. Inj . . . . . 5.0 ul Sample amount . . 1.000
Conv. factor . . 1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T. (min)	Peak name	Group	Ref/Std
2.042	alpha-BHC	0	
2.575	LINDANE	0	
2.924	beta-BHC	0	
3.393	delta-BHC	0	
5.760	HEPTACHLOR EPOXI	0	
7.139	ENDOSULFAN I	0	
8.710	DIELDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
27.978	DBC/METHOX/END.K	0	

==========

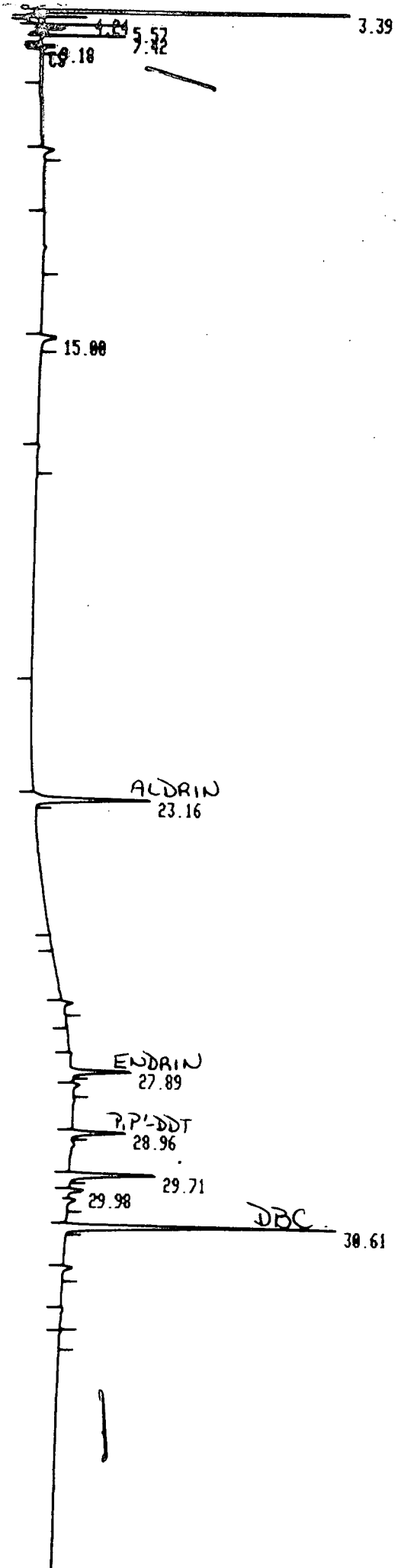
AREA PERCENT REPORT

==========

Peak	R.T. (min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.176			0.081	2874	227	BV
2	0.522			86.049	3068403	584555	VB
3	0.965			0.017	590	175	BB
4	3.240		HEPTACHLOR/EK	0.016	572	47	BB

169

6	6.311		0.095	3385	94	BV
7	6.839		0.063	2263	91	VB
8	8.148	P,P'-DDE	0.264	9406	289	BB
9	10.451	ENDRIN	1.148	40928	1142	BV
10	12.469	P,P'-DDD	0.470	16770	293	VB
11	14.773	P,P'-DDT	0.760	27114	605	BB
12	23.215 S	~~MIREX (STD → HCR~~	1.440	51338	635	BV
13	25.903	DBC	8.045	286880	2774	VB
TOTALS			100.000	3565892		



PS1782

EVALUATION STD MIX F

CONFIRMATORY

RUN # 152 SEP/14/87 09:29:33
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 1

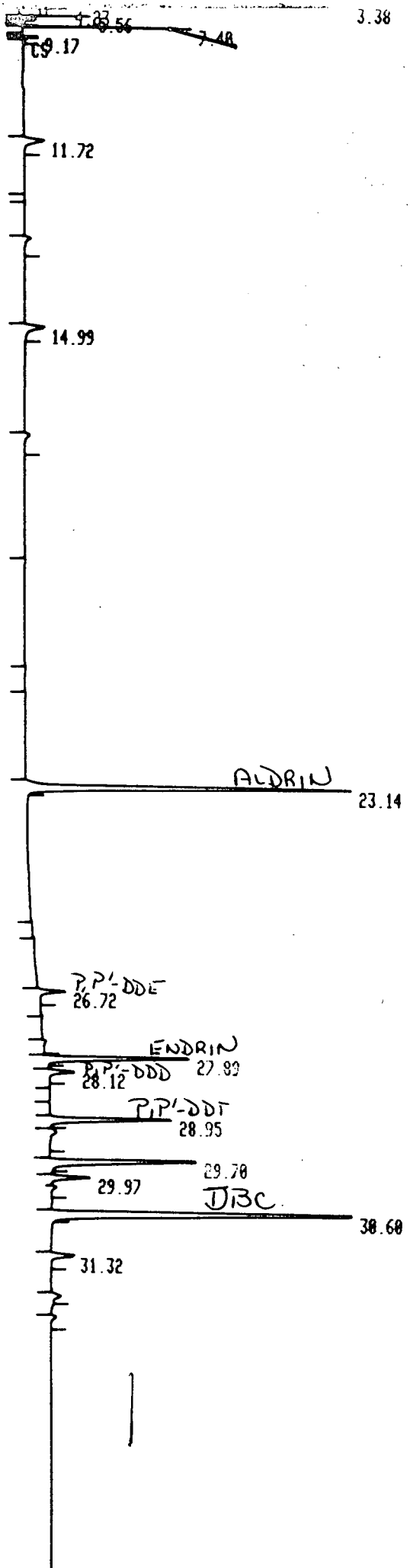
INST. HP5890
COL. SPB-608

AREA%

RT		AREA	TYPE	AR/HT	AREA%
3.39		5709300	BB	0.128	86.972
4.24		61688	BB	0.055	0.940
5.57		61504	PB	0.037	0.937
7.42		64471	PB	0.041	0.982
15.00		23257	PB	0.077	0.354
23.16	ALDRIN	139530	PB	0.064	2.126
27.89	ENDRIN	61178	PB	0.056	0.932
28.96	P,P'DDT	56843	BB	0.057	0.866
29.71		98908	BB	0.062	1.507
30.61	DBC	287840	PB	0.056	4.385

TOTAL AREA= 6564500
MUL FACTOR= 1.0000E+00

RAW DATA TRANSMITTED | FILE: RW4084::-27
CARD-PTS TRANSMITTED | FILE: CP4066::-27



PS1781

Evaluation STD Mix B

CONFIRMATORY

RUN # 153 SEP/14/87 10:19:58
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 2

INST. HP5890
COL. SPB608

AREA%

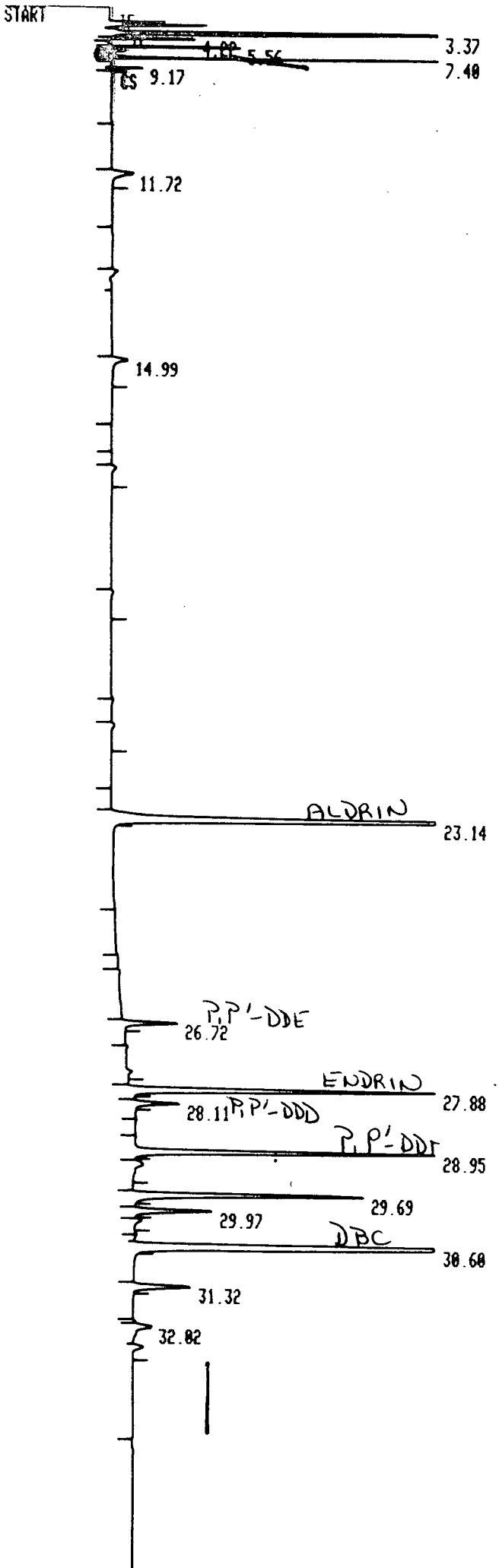
RT		AREA	TYPE	AR/HT	AREA%
3.38		2087900	BB	0.117	51.289
4.23		47234	BB	0.055	1.160
5.56		52852	BB	0.041	1.298
7.40		125790	PB	0.039	3.090
11.72		31726	PB	0.082	0.779
14.99		30853	PB	0.083	0.758
23.14	ALDRIN	395250	PB	0.059	9.710
26.72	P,P'-DDE	26449	PB	0.054	0.650
27.89	ENDRIN	142470	PB	0.053	3.500
28.12	P,P'-DDD	27968	PB	0.058	0.687
28.95	P,P'-DDT	125320	BB	0.055	3.079
29.70		171090	PB	0.063	4.203
29.97		41617	PV	0.058	1.022
30.60	DBC	734310	PB	0.055	18.039
31.32		29974	PB	0.066	0.736

TOTAL AREA= 4070800
MUL FACTOR= 1.0000E+00

RAW DATA TRANSMITTED FILE: RW4096::-27
CARD-PTS TRANSMITTED FILE: CP4027::-27

.03

77



PS1780

Evaluation Std Mix C

CONFIRMATORY

RUN # 154 SEP/14/87 11:10:40
WORKFILE ID: B
WORKFILE NAME: HP5890
SAMPLE # 3 SPB608

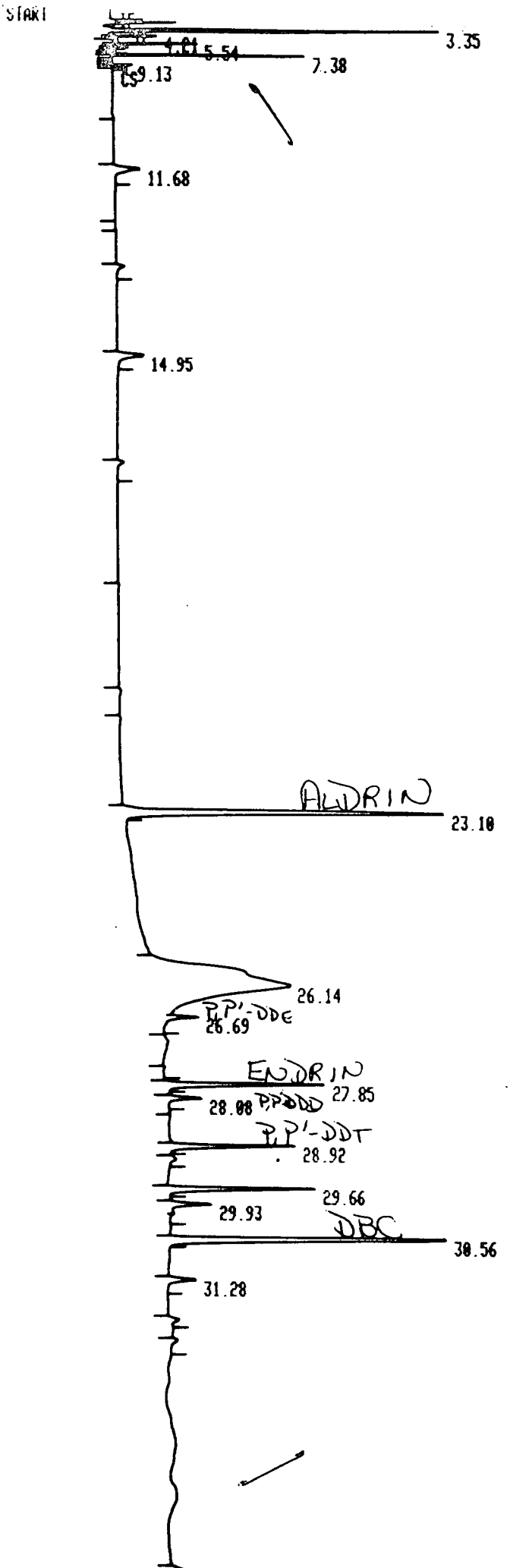
AREA%

RT		AREA	TYPE	AR/HT	AREA%
3.37		5226800	BB	0.124	55.680
4.22		113570	PB	0.073	1.210
5.56		94446	PB	0.039	1.006
7.40		253830	PB	0.038	2.704
9.17		36970	PB	0.064	0.394
11.72		32722	PB	0.079	0.349
14.99		27871	PB	0.092	0.297
23.14	ALDRIN	937830	PB	0.058	9.992
26.72	P,P'-DDE	50619	PB	0.051	0.539
27.88	ENDRIN	309590	PB	0.051	3.298
28.11	P,P'-DDD	45415	PB	0.055	0.484
28.95	P,P'-DDT	324270	BB	0.052	3.455
29.69		265730	PB	0.061	2.831
29.97		81147	PB	0.056	0.865
30.60	DBC	1476900	PB	0.055	15.736
31.32		70763	PB	0.066	0.754
32.82		38092	BV	0.103	0.406

TOTAL AREA= 9385800
MUL FACTOR= 1.0000E+00

RAW DATA TRANSMITTED FILE: RW4089::-27
CARD-PTS TRANSMITTED FILE: CP4048::-27

.03



PS1781

EVALUATION MIX B

CONFIRMATORY

RUN # 164 SEP/14/87 20:04:01
WORKFILE ID: B
WORKFILE NAME: HP5890
SAMPLE # 6 SPB608

AREA%

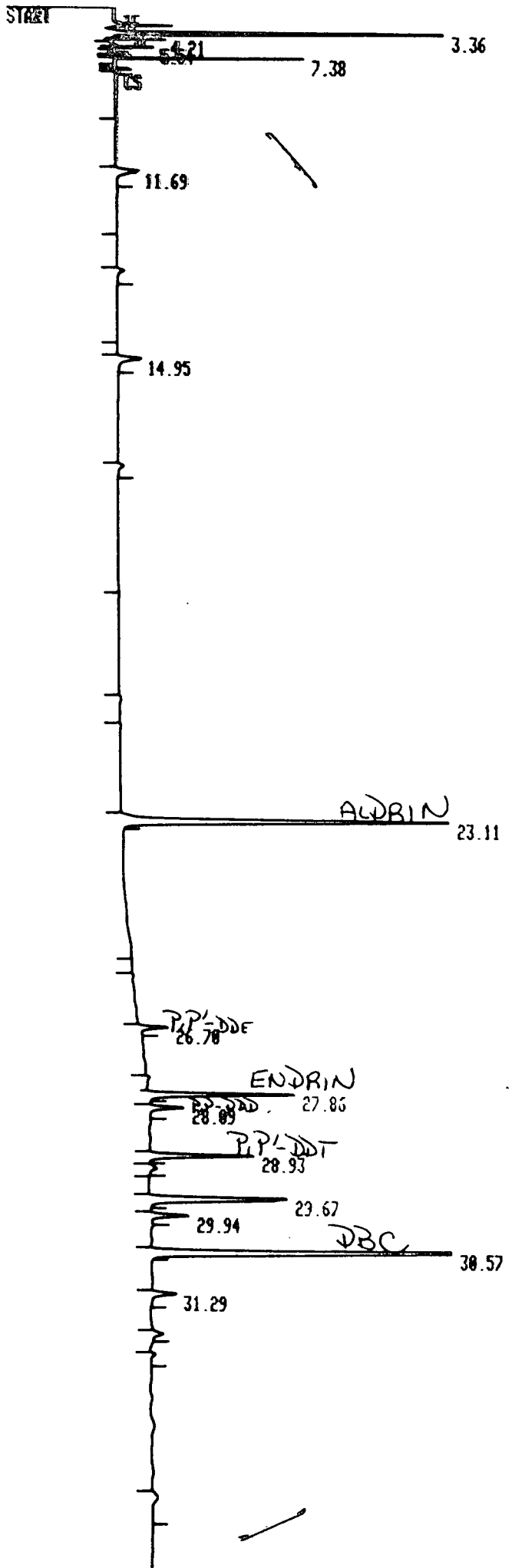
RT		AREA	TYPE	AR/HT	AREA%
3.35		2152000	BB	0.111	37.711
4.21		60569	BB	0.067	1.061
5.54		61277	BB	0.041	1.074
7.38		142330	PB	0.039	2.494
9.13		25642	PB	0.067	0.449
11.68		37815	PB	0.078	0.663
14.95		40073	PB	0.079	0.702
23.10	ALDRIN	446890	PB	6.059	7.831
26.14		1247300	BV	0.487	21.858
26.69	P,P'-DDE	56065	VB	0.082	0.983
27.85	ENDRIN	157450	PB	0.053	2.759
28.08	P,P'-DDD	32957	PB	0.055	0.578
28.92	P,P'-DDT	127400	BB	0.055	2.233
29.66		161120	PB	0.059	2.823
29.93		49153	BV	0.064	0.861
30.56	DBC	750860	BB	0.054	13.158
31.28		38122	BB	0.071	0.668
36.47		119440	BB	0.177	2.093

TOTAL AREA= 5706500
MUL FACTOR= 1.0000E+00

RAW DATA TRANSMITTED FILE: RW4052::-27
CARD-PTS TRANSMITTED FILE: CP4094::-27

12

774



PS1781

EVALUATION MIX B

CONFIRMATORY

RUN # 172 SEP/15/87 02:58:47
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 14

HP5890
SPB-608

AREA%

RT	AREA	TYPE	AR/HT	AREA%
3.36	2567400	BB	0.115	56.764
4.21	63338	BB	0.067	1.400
5.54	29230	BB	0.044	0.646
7.38	139270	PB	0.040	3.079
11.69	32949	PB	0.077	0.729
14.95	35177	PB	0.079	0.778
23.11	405680	PB	0.059	8.969
26.70	25604	PB	0.050	0.566
27.86	143550	PB	0.053	3.174
28.09	35117	PB	0.056	0.776
28.93	108140	PB	0.056	2.391
29.67	153320	PB	0.060	3.390
29.94	37452	PB	0.054	0.828
30.57	715520	PB	0.055	15.820
31.29	31209	PB	0.067	0.690

TOTAL AREA= 4523000
MUL FACTOR= 1.0000E+00

RAW DATA TRANSMITTED FILE: RW4068::-27
CARD-PTS TRANSMITTED FILE: CP4010::-27

.09

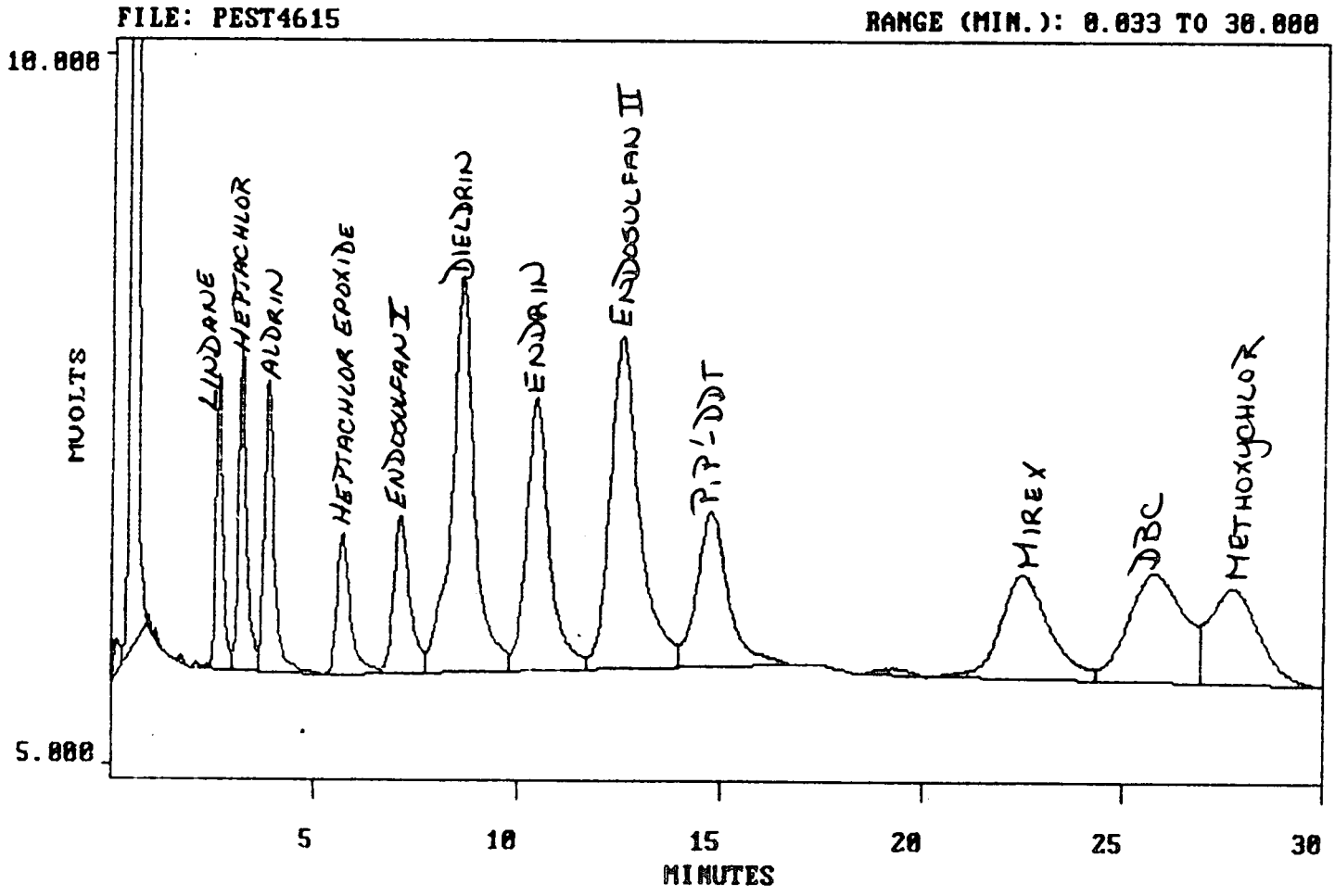
PS1788

Individual Mix A

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:08:26:29 Date:MON 14 SEP 87

Time:20:11:57 Date:WED 09 SEP 87
Method:PEST1



77

Channel #.....REINT Time:08:22:48 Date:MON 14 SEP 87

Sample name.....
Data file.....PEST4615
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....20:11:57 Acq. date....WED 09 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..20
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.042	alpha-BHC	0	
2.924	beta-BHC	0	
3.393	delta-BHC	0	
8.208	P,P'-DDE	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	

==========

AREA PERCENT REPORT

==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.161			0.061	2993	241	BV
2	0.527			85.112	4167518	796255	VB
3	2.648		LINDANE	0.507	24801	2202	VV
4	3.212		HEPTACHLOR	0.650	31818	2372	VV
5	3.858		ALDRIN	0.724	35431	2141	VB

6	5.660	HEPTACHLOR EPOXIDE	0.478	23389	1028	BV
7	7.086	ENDOSULFAN I	0.649	31755	1151	VV
8	8.591	DIELDRIN	2.283	111793	2908	VV
9	10.397	ENDRIN.	1.589	77791	1992	VV
10	12.527	~~P,P'-DDD~~ MK ENDOSULFAN II	2.486	121704	2436	VV
11	14.715	P,P'-DDT	1.249	61152	1129	VB
12	19.256		0.057	2767	48	BB
13	22.512 S	MIREX (STD.)	1.364	66811	755	BV
14	25.842	DBC	1.591	77923	789	VV
15	27.789	~~DBC/METHOX/END.K~~ MK METHOXYCHLOR.	1.202	58856	693	VB
TOTALS			100.000	4896502		

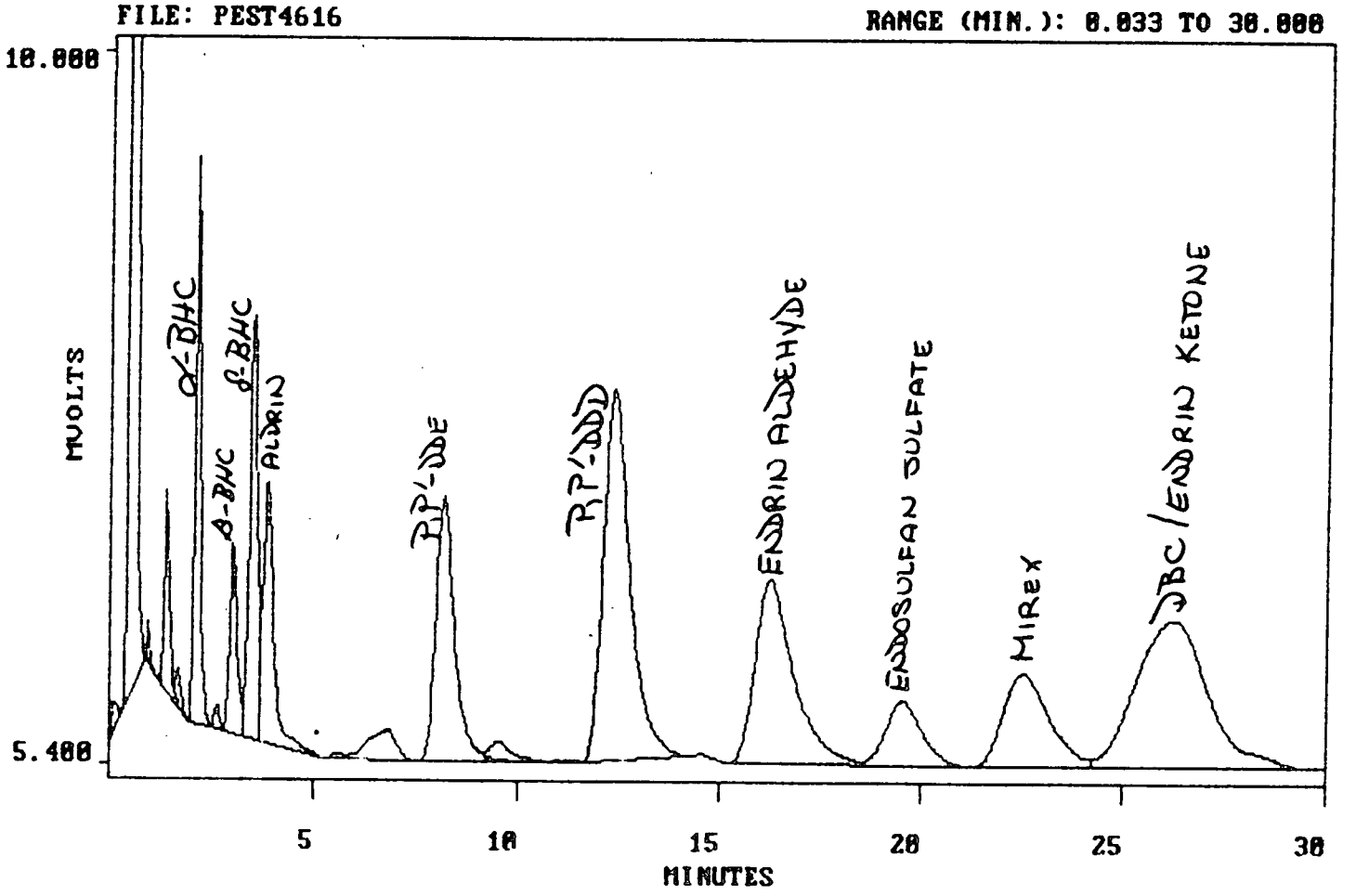
PS1789

INDIVIDUAL MIX B

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:08:24:10 Date:MON 14 SEP 87

Time:20:43:22 Date:WED 09 SEP 87
Method:PEST1



Channel #.....REINT Time:08:21:01 Date:MON 14 SEP 87

Sample name.....
Data file.....PEST4616
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....20:43:22 Acq. date....WED 09 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..21
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
3.130	HEPTACHLOR	0	
7.139	ENDOSULFAN I	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
27.978	DBC/METHOX/END.K	0	

==========

AREA PERCENT REPORT

==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.163			0.049	2211	190	BV
2	0.526			86.634	3903246	704100	VB
3	0.961			0.028	1282	279	BB
4	1.400			0.243	10927	1351	VE
5	1.674			0.046	2068	236	EB

6	2.131		alpha-BHC	0.779	35080	3838	BB
7	2.645		~~LINDANE~~ MCA	0.030	1343	162	BB
8	3.010		beta-BHC	0.371	16733	1283	BV
9	3.489		delta-BHC	0.885	39855	2878	VV
10	3.857		ALDRIN	0.669	30120	1765	VB
11	5.572		~~HEPTACHLOR EPOXI~~ MCA	0.015	676	32	BV
12	6.750			0.223	10064	201	VB
13	8.142		P,P'-DDE	1.244	56028	1771	BE
14	9.502			0.096	4322	119	EV
15	11.233			0.012	542	20	EB
16	12.325		P,P'-DDD	2.532	114081	2493	BB
17	16.277		ENDRIN ALDEHYDE	1.795	80850	1215	BV
18	19.553		ENDOSULFAN SULFATE	0.596	26864	424	VB
19	22.575	S	MIREX (STD.)	1.086	48913	617	BV
20	26.307		DBC/ENDRIN KETONE	2.668	120224	971	VB
TOTALS				100.000	4505429		

0781

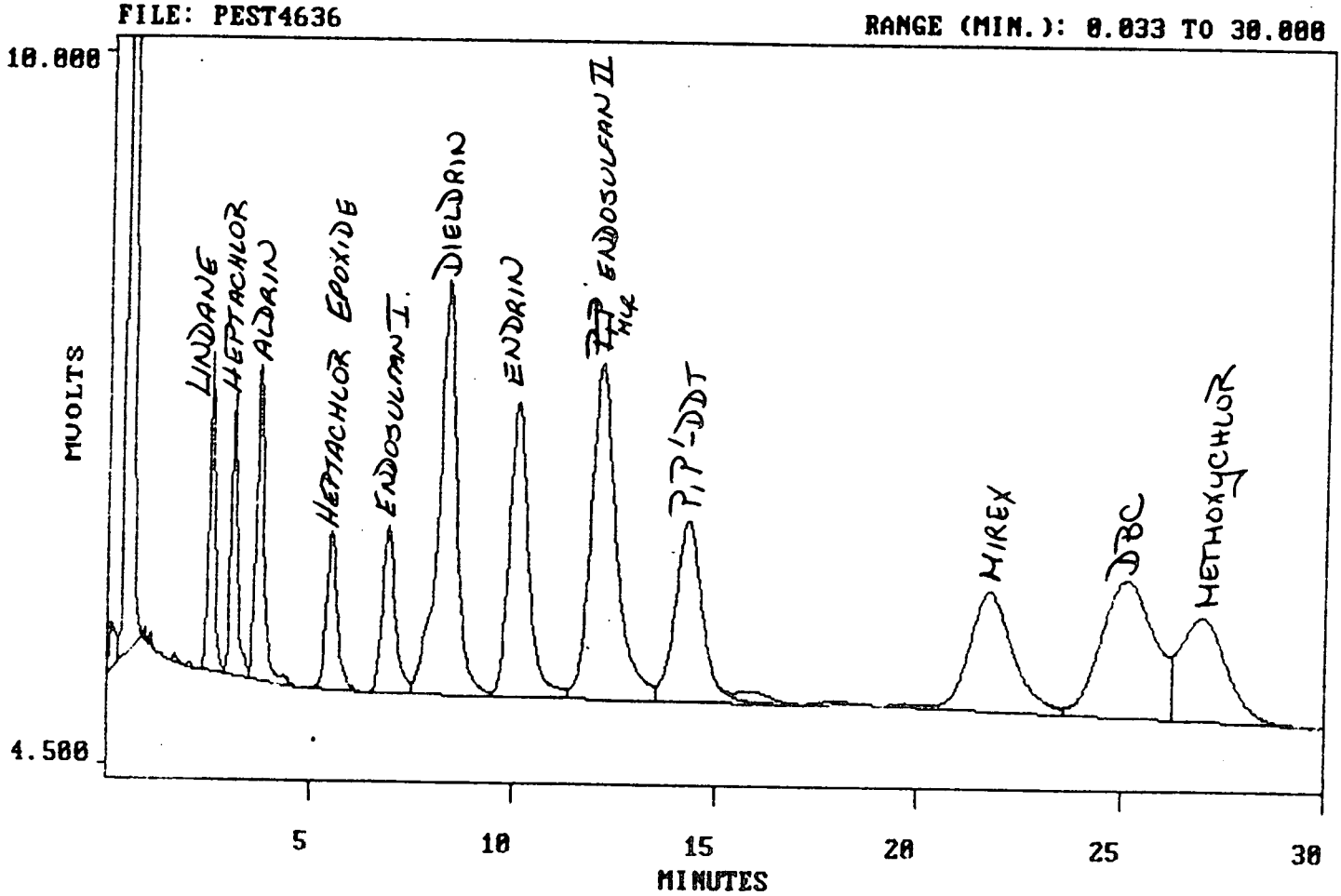
PS1788

INDIVIDUAL MIX A

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time: 09:42:18 Date: MON 14 SEP 87

Time: 07:23:40 Date: THU 10 SEP 87
Method: PEST1



Channel #.....REINT Time:09:40:41 Date:MON 14 SEP 87

Sample name.....
Data file.....PEST4636
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....07:23:40 Acq. date....THU 10 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..21
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.042	alpha-BHC	0	
2.924	beta-BHC	0	
3.393	delta-BHC	0	
5.760	HEPTACHLOR EPOXI	0	
7.139	ENDOSULFAN I	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
22.759	MIREX (STD.)	0	S
27.978	DBC/METHOX/END.K	0	

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AREA PERCENT REPORT

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Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL

1	0.132		0.114	4691	373	BV
2	0.505		81.413	3350570	738568	VB
3	1.090		0.014	562	115	VB
4	2.556	LINDANE	0.601	24719	2608	BV
5	3.101	HEPTACHLOR	0.617	25390	2257	VV
6	3.724	ALDRIN	0.847	34855	2541	VB
7	5.468	HEPTACHLOR EPOXIDE	0.580	23873	1277	BB
8	6.850	ENDOSULFAN I	0.768	31613	1366	BV
9	8.307	~~P,P'-DDE~~ MG DIELDRIN	2.560	105357	3338	VV
10	10.061	ENDRIN	1.893	77920	2357	VV
11	12.130	~~P,P'-DDD~~ ENDOSULFAN II	2.854	117475	2706	VV
12	14.266	P,P'-DDT MG	1.645	67708	1455	VE
13	15.896		0.124	5099	91	EB
14	17.811		0.023	941	25	BB
15	19.687		0.034	1386	31	BV
16	21.795	MIREX	1.775	73038	957	VV
17	25.167	DBC	2.504	103035	1107	VV
18	27.027	METHOXYCHLOR	1.635	67274	842	VB
TOTALS			100.000	4115506		

1

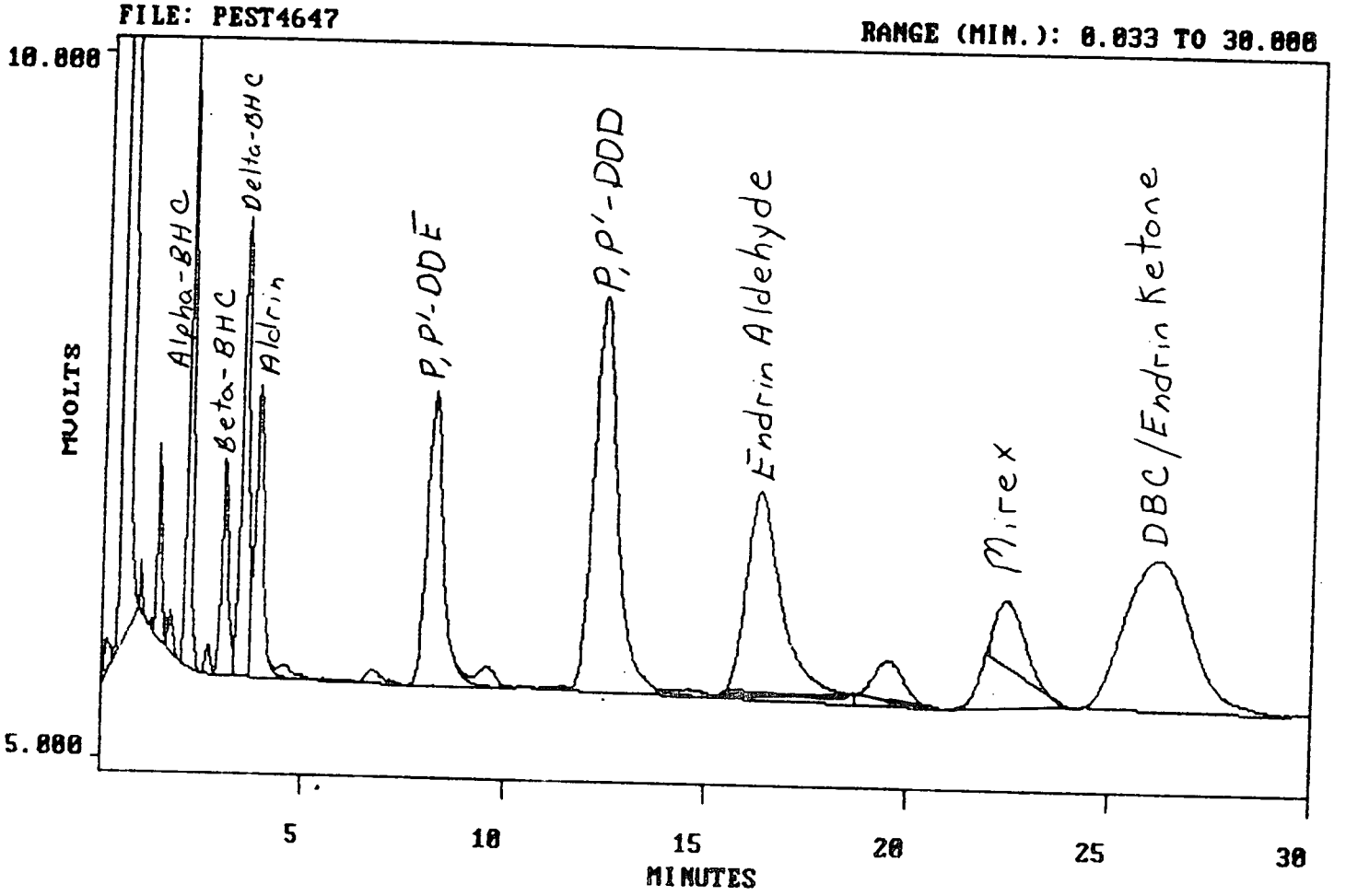
PS 1789

Individual Std. Mix B

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time: 09:45:07 Date: FRI 11 SEP 87

Time: 15:40:48 Date: THU 10 SEP 87
Method: PEST1



Channel #.....4 Time:16:12:47 Date:THU 10 SEP 87
Run #37 of 50

Sample name.....
Data file.....DAT351:PEST4647
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....15:40:48 Acq. date....THU 10 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..21
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
3.130	HEPTACHLOR	0	
5.760	HEPTACHLOR EPOXI	0	
7.139	ENDOSULFAN I	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
27.978	DBC/METHOX/END.K	0	

==========

AREA PERCENT REPORT

==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.164			0.066	2778	231	BV
2	0.528			85.558	3617664	738051	VB

3	0.966		0.035	1462	367	BB
4	1.404		0.232	9803	1440	BV
5	1.683		0.061	2586	312	VB
6	2.136	alpha-BHC	0.885	37410	4752	BB
7	2.653	~~LINDANE~~ Lab	0.042	1763	216	BB
8	3.013	beta-BHC	0.451	19068	1612	BV
9	3.495	delta-BHC	1.003	42391	3417	VV
10	3.866	ALDRIN	0.705	29800	2158	VE
11	4.553		0.075	3170	101	EB
12	6.679		0.066	2809	100	BB
13	8.156	P,P'-DDE	1.460	61745	2182	BE
14	9.520		0.116	4922	151	EB
15	11.473		0.017	714	26	BV
16	12.384	P,P'-DDD	2.909	123000	2911	VE
17	14.570		0.055	2345 ~10000	46	EV
18	16.317	ENDRIN ALDEHYDE	2.314	97827	1519	VV
19	19.508		0.462	19540	334	VB
20	22.494 S	MIREX (STD.)	0.526	~~8222~~ 44442	473	BB
21	26.265	DDC/Endrin Ketone	2.963	125280	1089	BB
TOTALS			100.000	4228298		

3.3

PS1788

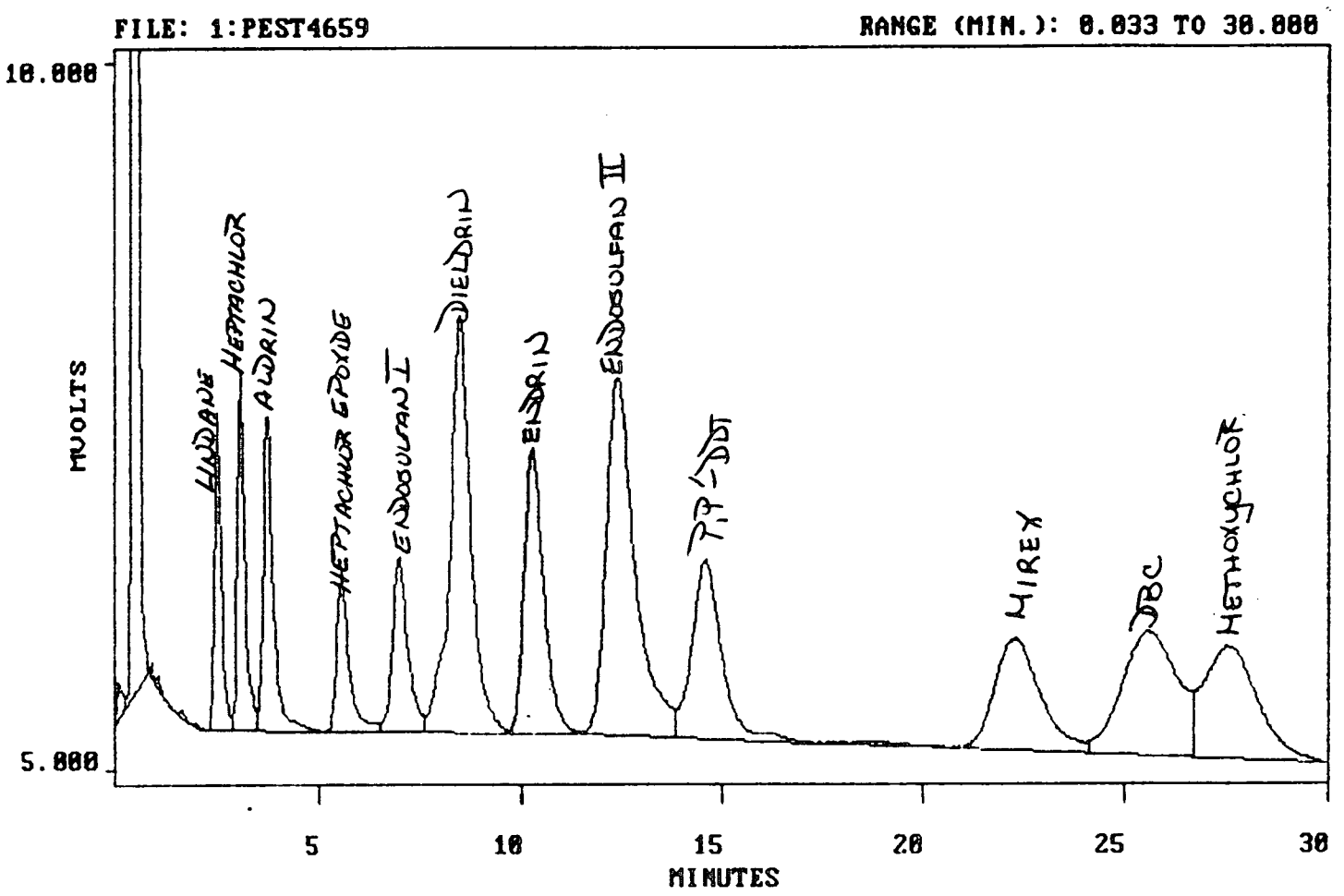
INDIVIDUAL STD MIX B A

MLR

Time:14:41:25 Date:FRI 11 SEP 87

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:14:08:15 Date:FRI 11 SEP 87
Method:PEST1



Channel #.....4 Time:14:38:59 Date:FRI 11 SEP 87
Run #6 of 20

Sample name.....
Data file.....DAT352:PEST4659
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....14:08:15 Acq. date....FRI 11 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..22
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.042	alpha-BHC	0	
2.924	beta-BHC	0	
3.393	delta-BHC	0	
5.760	HEPTACHLOR EPOXI	0	
8.208	P,P'-DDE	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	

==========

AREA PERCENT REPORT

==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.141			0.060	3019	264	BV
2	0.524			84.900	4281882	805926	VB
3	2.547		LINDANE	0.517	26054	2384	BV
4	3.109		HEPTACHLOR	0.683	34424	2665	VV
5	3.751		ALDRIN	0.763	38500	2351	VB

6	5.543			0.498	25101	1128	BV
7	6.967		ENDOSULFAN I	0.667	33638	1268	VV
8	8.465		DIELDRIN	2.135	107687	3084	VV
9	10.264		ENDRIN	1.395	70374	2084	VB
10	12.379		~~P,P'-DDD~~ ENDOSULFAN II MLK	2.571	129692	2631	BV
11	14.558		P,P'-DDT	1.340	67576	1305	VB
12	18.472			0.021	1057	23	BV
13	18.870			0.013	642	31	VV
14	22.286	S	MIREX (STD.)	1.278	64432	812	BV
15	25.570		DDE	1.696	85539	903	VV
16	27.525		~~DDE/METHOX/END-K~~ MLK METHOXYCHLOR	1.464	73833	814	VB
TOTALS				100.000	5043450		

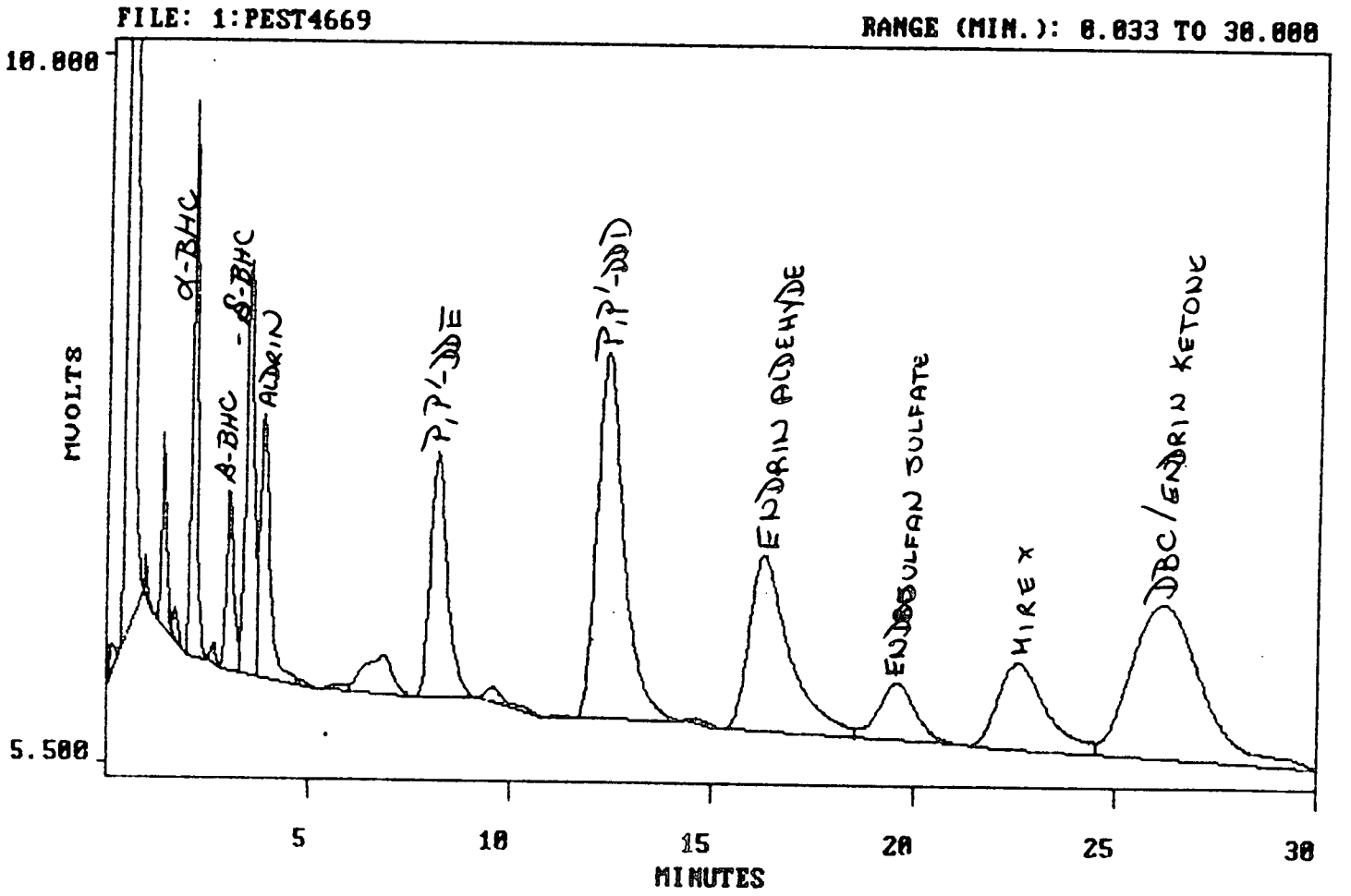
PS1789

Individual Std Mix B

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time: 10:51:23 Date: SAT 12 SEP 87

Time: 20:06:11 Date: FRI 11 SEP 87
Method: PEST1



Channel #.....4 Time:20:36:52 Date:FRI 11 SEP 87
Run #9 of 20

Sample name.....
Data file.....DAT352:PEST4669
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....20:06:11 Acq. date....FRI 11 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..21
Vol Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
3.130	.HEPTACHLOR	0	
7.139	ENDOSULFAN I	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
27.978	DBC/METHOX/END.K	0	

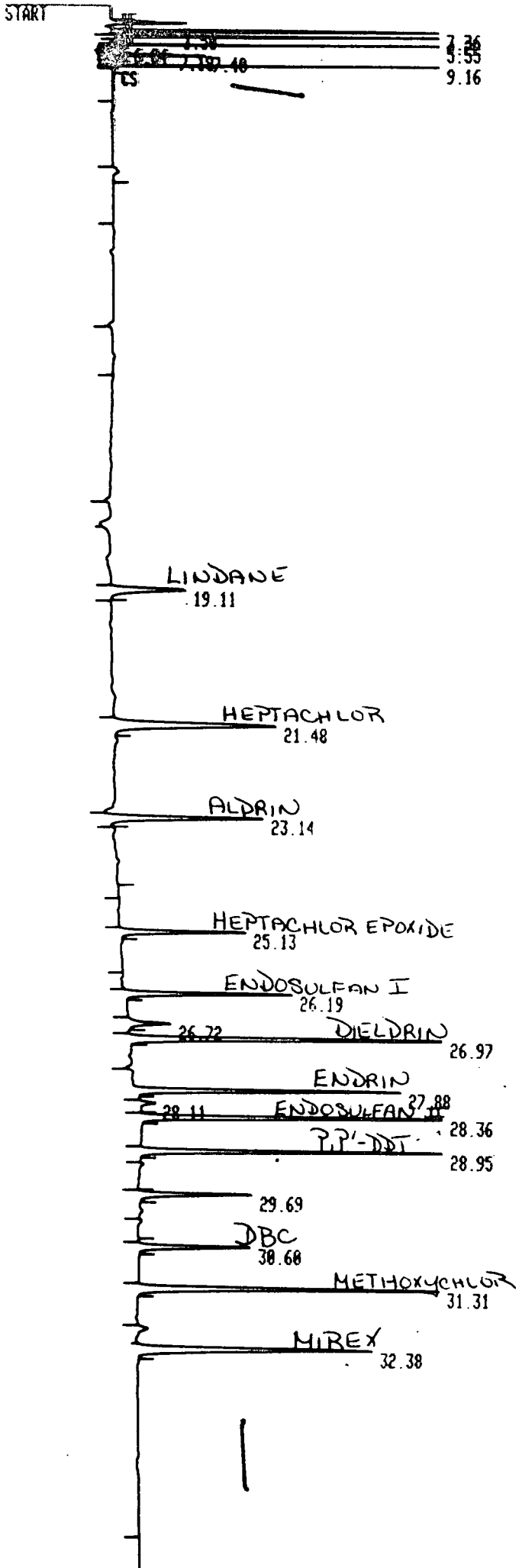
==========

AREA PERCENT REPORT

==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.170			0.048	2152	184	BV

5	1.680					
6	2.135	alpha-BHC	0.745	33658	3702	BB
7	2.649	~~LINDANE~~ MIX	0.025	1114	145	BB
8	3.015	beta-BHC	0.349	15758	1206	BV
9	3.495	delta-BHC	0.837	37851	2743	VV
10	3.864	ALDRIN	0.658	29758	1733	VB
11	5.650	~~HEPTACHLOR EPOX~~ MIX	0.024	1075	38	BV
12	6.829		0.279	12611	257	VB
13	8.164	P,P'-DDE	1.064	48116	1632	BB
14	9.550		0.078	3516	100	BB
15	12.354	P,P'-DDD	2.486	112370	2426	BB
16	14.563		0.016	702	28	BB
17	16.268	ENDRIN ALDEHYDE	1.784	80629	1159	BV
18	19.575	ENDOSULFAN SULFATE	0.537	24290	375	VB
19	22.587 S	MIREX (STD.)	1.049	47395	567	BV
20	26.183	DDC / ENDRIN KETONE	2.733	123540	1009	VB
TOTALS			100.000	4520242		



PS1788

INDIVIDUAL STD MIX A

CONFIRMATORY

RUN # 155 SEP/14/87 12:01:33
WORKFILE ID: B
WORKFILE NAME: HP5890
SAMPLE # 4 SPB-608

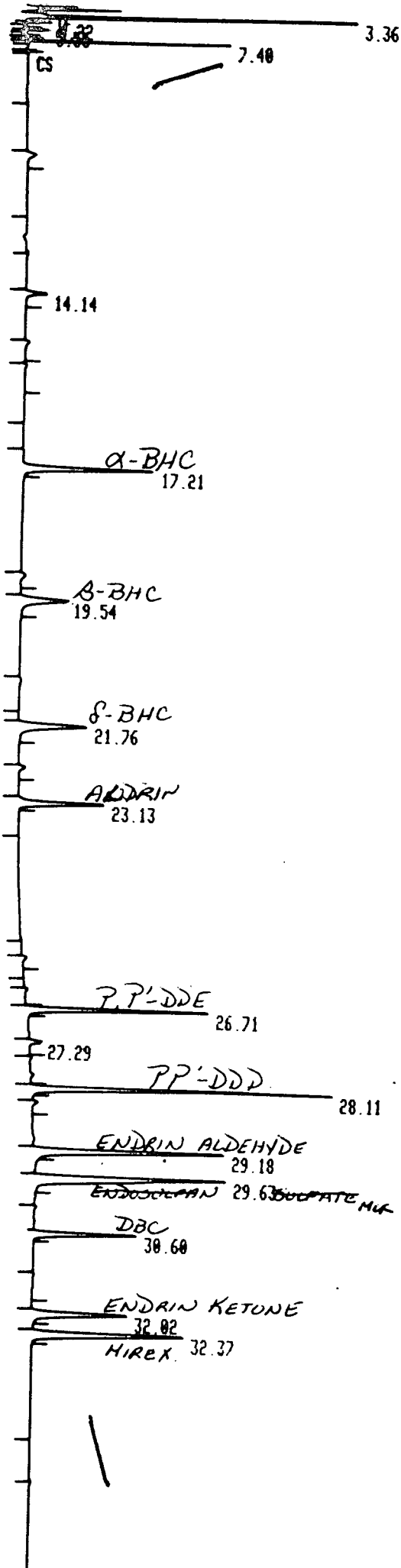
AREA%

RT		AREA	TYPE	AR/HT	AREA%
3.36		1751200	BV	0.122	24.063
3.50		58500	VB	0.050	0.804
4.22		1451700	PB	0.072	19.948
5.55		276590	PB	0.036	3.801
7.18		49430	PB	0.044	0.679
7.40		75493	BB	0.044	1.037
9.16		388940	PB	0.042	5.344
19.11	LINDANE	103920	BB	0.075	1.428
21.48	HEPT.	249970	PB	0.083	3.435
23.14	ALDRIN	177640	PB	0.061	2.441
25.13	HEPT. EPOX	124300	BB	0.053	1.708
26.19	ENDO I	153950	BB	0.049	2.115
26.72		46157	PB	0.059	0.634
26.97	DIELDRIN	427000	PB	0.046	5.867
27.88	ENDRIN	271710	BB	0.055	3.734
28.36	ENDO II	387820	PB	0.051	5.329
28.95	P,P'-DDT	331040	PB	0.050	4.549
29.69		128170	PB	0.061	1.761
30.60	DBC	121980	BB	0.058	1.676
31.31	METHOX.	352260	PB	0.062	4.840
32.38	MIREX	349820	PB	0.079	4.807

TOTAL AREA= ~~7277600~~
MUL FACTOR= 1.0000E+00

RAW DATA TRANSMITTED FILE: RW4022::-27
CARD-PTS TRANSMITTED FILE: CP4057::-27

.03



PS1789

INDIVIDUAL MIX B

CONFIRMATORY

RUN # 156 SEP/14/87 12:52:39
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 5

HP5890
SP8608

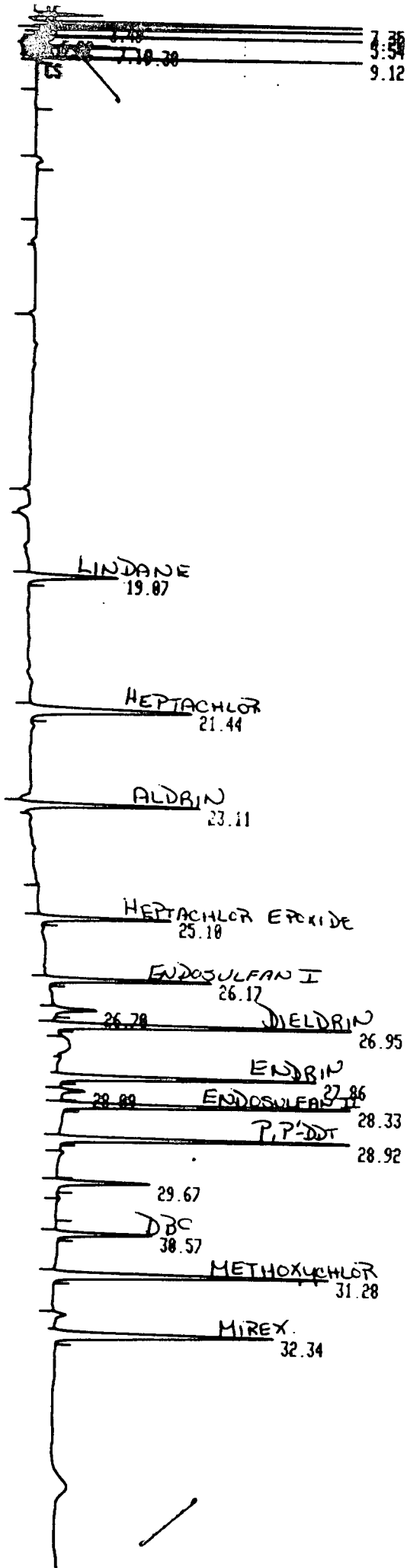
AREA%

RT		AREA	TYPE	AR/HT	AREA%
3.36		3359700	BB	0.119	61.983
4.22		34365	BB	0.070	0.634
7.40		148740	PB	0.039	2.744
14.14		24908	PB	0.062	0.460
17.21	α-BHC	153230	PB	0.064	2.827
19.54	β-BHC	87194	PB	0.096	1.609
21.76	δ-BHC	111790	BB	0.090	2.063
23.13	ALDRIN	105440	PB	0.067	1.945
26.71	P,P'-DDE	154920	PB	0.047	2.858
28.11	P,P'-DDD	265520	PB	0.048	4.899
29.18	END. ALD	216200	BB	0.062	3.989
29.63	ENDOSULFAN SULFATE	305440	PB	0.087	5.635
30.60	DBC	112590	PB	0.059	2.077
32.02	END KET	124810	PB	0.073	2.303
32.37	HIREX	215460	BB	0.077	3.975

TOTAL AREA= 5420390
MUL FACTOR= 1.0000E+00

RAW DATA TRANSMITTED FILE: RW4036::-27
CARD-PTS TRANSMITTED FILE: CP4070::-27

.03



PS1788

INDIVIDUAL Std Mix A

CONFIRMATORY

RUN # 170 SEP/15/87 01:16:31
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 12

HP5890
SPB608

AREA%

RT		AREA	TYPE	AR/HT	AREA%
3.35		1766800	BV	0.119	24.564
3.49		57979	VB	0.049	0.806
4.20		1423500	PB	0.073	19.791
5.54		292030	PB	0.036	4.060
7.16		60123	PB	0.043	0.836
7.38		83843	PB	0.044	1.166
9.12		431140	PB	0.042	5.994
19.07	LINDANE	121010	BB	0.072	1.682
21.44	HEPTACHLOR	247320	PB	0.082	3.439
23.11	ALDRIN	199990	PB	0.060	2.781
25.18	High Epox	127380	BB	0.052	1.771
26.17	ENDO I	149700	BB	0.049	2.081
26.70		44332	BB	0.056	0.616
26.95	DIELDRIN	424270	PB	0.045	5.899
27.86	ENDRIN	246080	PB	0.051	3.421
28.09		24681	BB	0.055	0.343
28.33	ENDO II	374980	PB	0.051	5.213
28.92	P,P'-DDT	273840	PB	0.050	3.807
29.67		102040	BB	0.059	1.419
30.57	DBC	101770	PB	0.057	1.415
31.28	METHOXYCHLOR	322690	PB	0.062	4.486
32.34	MIREX	317170	PB	0.077	4.410

TOTAL AREA= 7192680
MUL FACTOR= 1.0000E+00

RAW DATA TRANSMITTED FILE: RW4039::-27
CARD-PTS TRANSMITTED FILE: CP4006::-27

.09

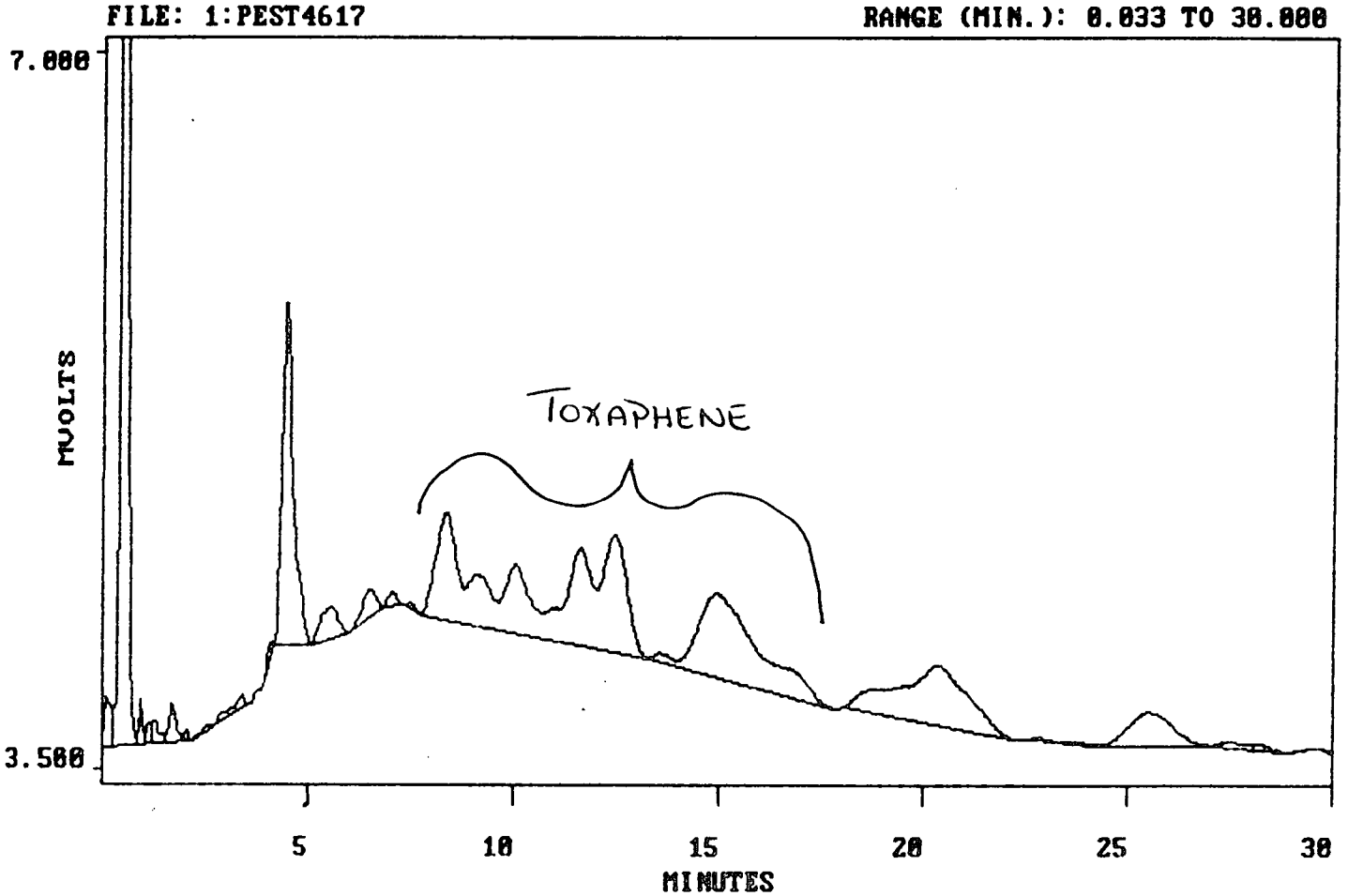
PS1732

TOXAPHENE STD.

Time:15:57:09 Date:THU 10 SEP 87

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:21:14:45 Date:WED 09 SEP 87
Method:TOXCLP



$\Sigma = 136549$

RF = 27.3

Channel #.....REINT Time:15:56:05 Date:THU 10 SEP 87

Sample name.....
Data file.....1:PEST4617
Method name.....TOXCLP

Author.....MLR
Instrument.....4
Column.....~~GR~~ MLR. 1.5% SP-2250/1.95% SP2401 ON 100/120 SUPELCOPORT
Notes.....

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....21:14:45 Acq. date....WED 09 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..23
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

METHOD NOT CALIBRATED!

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.134			0.099	3179	248	BV
2	0.509			92.490	2979925	679119	VV
3	0.961			0.046	1493	223	VV
4	1.188			0.028	893	107	VV
5	1.317			0.038	1210	108	VV
6	1.706			0.071	2283	199	VV
7	3.394			0.056	1802	68	BB
8	4.102			0.031	997	72	BB
9	4.450			1.009	32510	1764	BB
10	5.528			0.151	4875	161	BB
11	6.444			0.107	3458	146	BB
12	7.021			0.034	1104	73	BB
13	8.322		TOXAPHENE	2.842	91560	554	BB
14	14.900			1.396	44989	427	BB
15	20.350			1.141	36772	303	BB
16	25.525			0.391	12591	171	BB
17	27.408			0.042	1356	27	BV

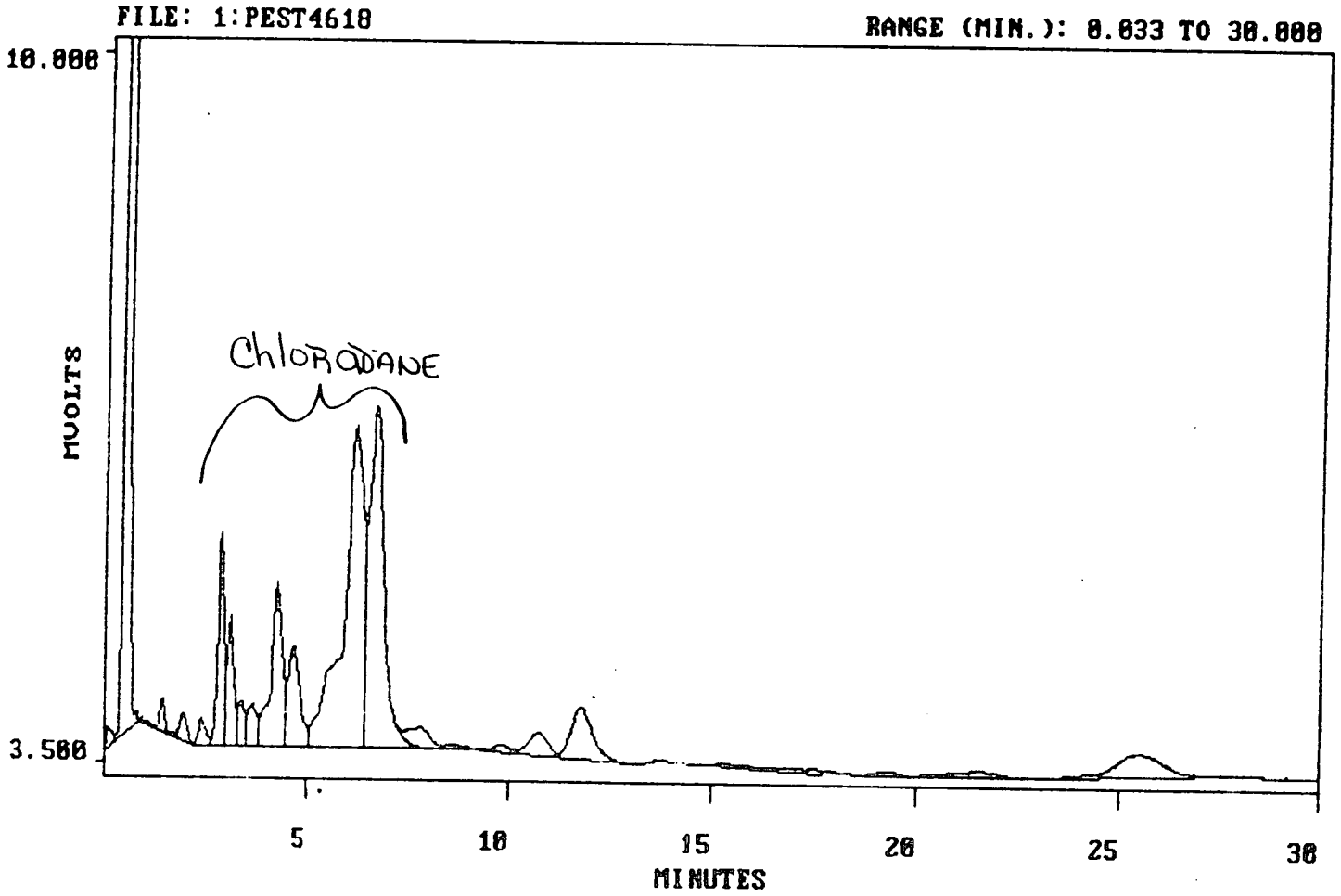
PS1730

CHLORDANE STD MIX

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:09:41:30 Date:THU 10 SEP 87

Time:21:46:11 Date:WED 09 SEP 87
Method:PEST1



Σ = 282242

RF = 112.9

Channel #.....4 Time:22:16:47 Date:WED 09 SEP 87
Run #8 of 50

Sample name.....
Data file.....DAT351:PEST4618
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....21:46:11 Acq. date....WED 09 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..23
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.575	LINDANE	0	
5.760	HEPTACHLOR EPOXI	0	
7.139	ENDOSULFAN I	0	
8.208	P,P'-DDE	0	
12.395	P,P'-DDD	0	
12.845	ENDOSULFAN II	0	
16.676	ENDRIN ALDEHYDE	0	
22.759	MIREX (STD.)	0	S
27.978	DBC/METHOX/END.K	0	

==========

AREA PERCENT REPORT

==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.126			0.078	2249	201	BV
2	0.504			87.679	2541921	589441	VB
3	1.455			0.080	2329	319	VV

800

4	1.928	~~alpha-BHC~~ MLR	0.105	3038	253 VB
5	2.431		0.106	3072	250 BV
6	2.859	~~beta-BHC~~ MLR	0.717	20787	2039 VV
7	3.103	~~HEPTACHLOR~~ MLR	0.478	13849	1245 VV
8	3.382	~~delta-BHC~~ MLR	0.170	4927	417 VV
9	3.660	~~ALDRIN~~ MLR.	0.211	6109	399 VV
		CHLORADANE			
10	4.247		1.059	30695	1573 VV
11	4.655		0.639	18536	960 VV
12	6.104		3.675	106545	3062 VV
13	6.612		2.787	80794	3253 VE
14	7.776		0.235	6816	192 EV
15	8.550	~~DIELDRIN~~ MLR	0.064	1841	54 EB
16	9.815		0.066	1905	68 BV
17	10.730	~~ENDRIN~~ MLR	0.237	6881	213 VV
18	11.770		0.628	18218	492 VB
19	15.283	~~P,P'-DDT~~ MLR.	0.074	2141	21 BB
20	19.267		0.047	1368	36 BB
21	21.571		0.172	4996	59 BB
22	25.569		0.694	20108	224 BB
TOTALS			100.000	2899125	

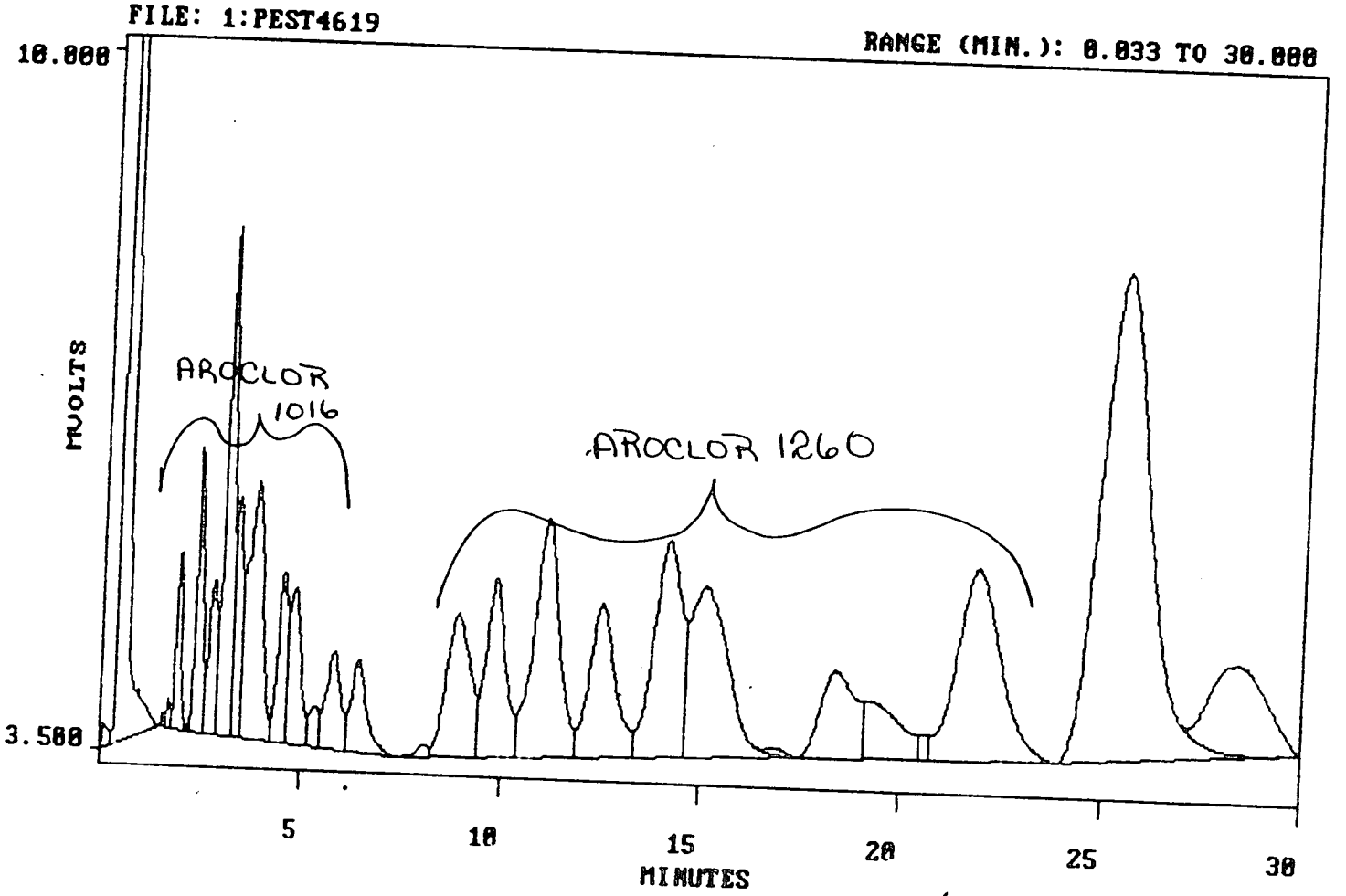
PS1761

AROCLOR 1016/1260 STD MIX.

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:09:44:04 Date:THU 10 SEP 87

Time:22:17:36 Date:WED 09 SEP 87
Method:PEST1



$\Sigma_{1016} = 333910$

RF = 66.8

$\Sigma_{1260} = 725870$

RF = 145.2

Channel #.....4 Time:22:48:19 Date:WED 09 SEP 87
Run #9 of 50

Sample name.....
Data file.....DAT351:PEST4619
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....22:17:36 Acq. date....WED 09 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0

Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..30
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.575	LINDANE	0	
2.924	beta-BHC	0	
7.139	ENDOSULFAN I	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	
22.759	MIREX (STD.)	0	S

==========

AREA PERCENT REPORT

==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.129			0.062	2958	240	BV
2	0.508			67.485	3244758	666416	VB
3	1.580			0.018	863	143	BV
4	1.707			0.039	1881	292	VV
5	1.919		~~alpha-BHC~~ HLR	0.320	15369	1744	VB

6	2.413		0.609	29305	2792 VV
7	2.781		0.424	20370	1485 VV
8	3.092	~~HEPTACHLOR~~ MLR	1.426	68576	4963 VV
9	3.362	~~delta-BHC~~ MLR	0.591	28429	2313 VV
10	3.825	~~ALDRIN~~ MLR	1.329	63898	2483 VV
11	4.509	AROCLOR 1016	0.563	27093	*1639 VV
12	4.794		0.580	27888	1501 VV
13	5.327		0.141	6791	402 VV
14	5.786	~~HEPTACHLOR EPOXI~~ MLR	0.471	22628	938 VV
15	6.386		0.490	23563	890 VB
16	8.054	~~P,P'-DDE~~ MLR	0.049	2365	113 BV
17	8.837	~~DIELDRIN~~ MLR	1.203	57837	1374 VV
18	9.778		1.260	60559	1710 VV
19	11.050		2.126	102224	2301 VV
20	12.463	~~P,P'-DDD~~ MLR	1.409	67738	1471 VV
21	14.097	AROCLOR 1260	2.084	100209	2077 VV
22	15.008	~~P,P'-DDT~~ MLR	2.200	105766	1639 VE
23	16.890	~~ENDRIN ALDEHYDE~~ MLR	0.048	2307	75 EB
24	18.342		1.061	51009	846 BV
25	19.164		0.713	34260	571 VV
26	20.594		0.086	4138	255 VV
27	21.837		2.908	139823	1842 VB
28	25.366		8.559	411515	4736 BE
29	28.339	~~DBC/METHOX/END K~~ MLR	1.747	83990	853 EB
TOTALS			100.000	4808110	

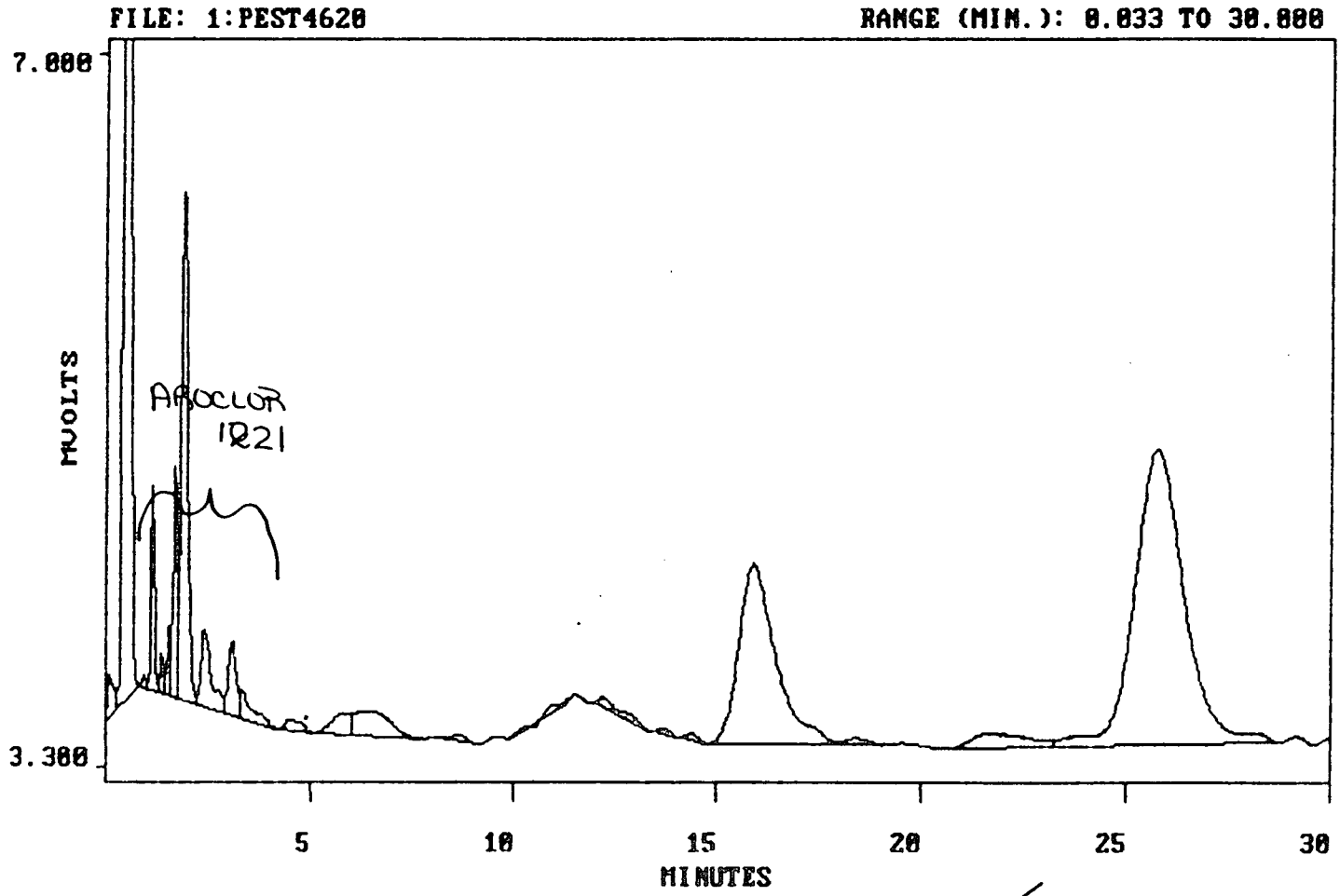
PS1763

AROCLOR 1221 STD MIX

Time:16:10:25 Date:THU 10 SEP 87

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:22:49:08 Date:WED 09 SEP 87
Method:PEST1



$\Sigma_{1221} = 64531$

RF = 12.9

Channel #.....4 Time:23:19:46 Date:WED 09 SEP 87
Run #10 of 50

Sample name.....
Data file.....DAT351:PEST4620
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....22:49:08 Acq. date....WED 09 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..23
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.042	alpha-BHC	0	
2.575	LINDANE	0	
2.924	beta-BHC	0	
3.770	ALDRIN	0	
7.139	ENDOSULFAN I	0	
8.208	P,P'-DDE	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
22.759	MIREX (STD.)	0	S
27.978	DBC/METHOX/END.K	0	

==========

AREA PERCENT REPORT

==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht	BL

1	0.126		0.085	2749	230 BV
2	0.504		90.875	2927946	658647 VB
3	0.947		0.019	599	72 BV
4	1.169		0.201	6475	1108 VV
5	1.409		0.046	1467	224 VV
6	1.576		0.060	1948	387 VV
		AROCLOR 1221			
7	1.706		0.311	10021	1253 VV
8	1.914		0.887	28583	2826 VV
9	2.429		0.230	7401	422 VV
10	3.090	~~HEPTACHLOR~~ MLR	0.169	5453	405 VV
11	3.331	~~delta-BHC~~ MLR	0.099	3183	155 VB
12	4.500		0.051	1647	61 BB
13	5.783	~~HEPTACHLOR EPOXI~~ MLR	0.113	3631	113 BV
14	6.322		0.245	7896	129 VB
15	8.573	~~DIELDRIN~~ MLR	0.026	845	27 BB
16	11.038		0.115	3716	82 BB
17	12.235	~~P,P'-DDD~~ MLR	0.053	1697	51 BB
18	14.363		0.019	600	35 BB
19	15.929		1.913	61634	965 BE
20	18.413		0.033	1061	34 EB
21	21.817		0.243	7833	82 BV
22	25.829		4.208	135575	1586 VB
TOTALS			100.000	3221960	

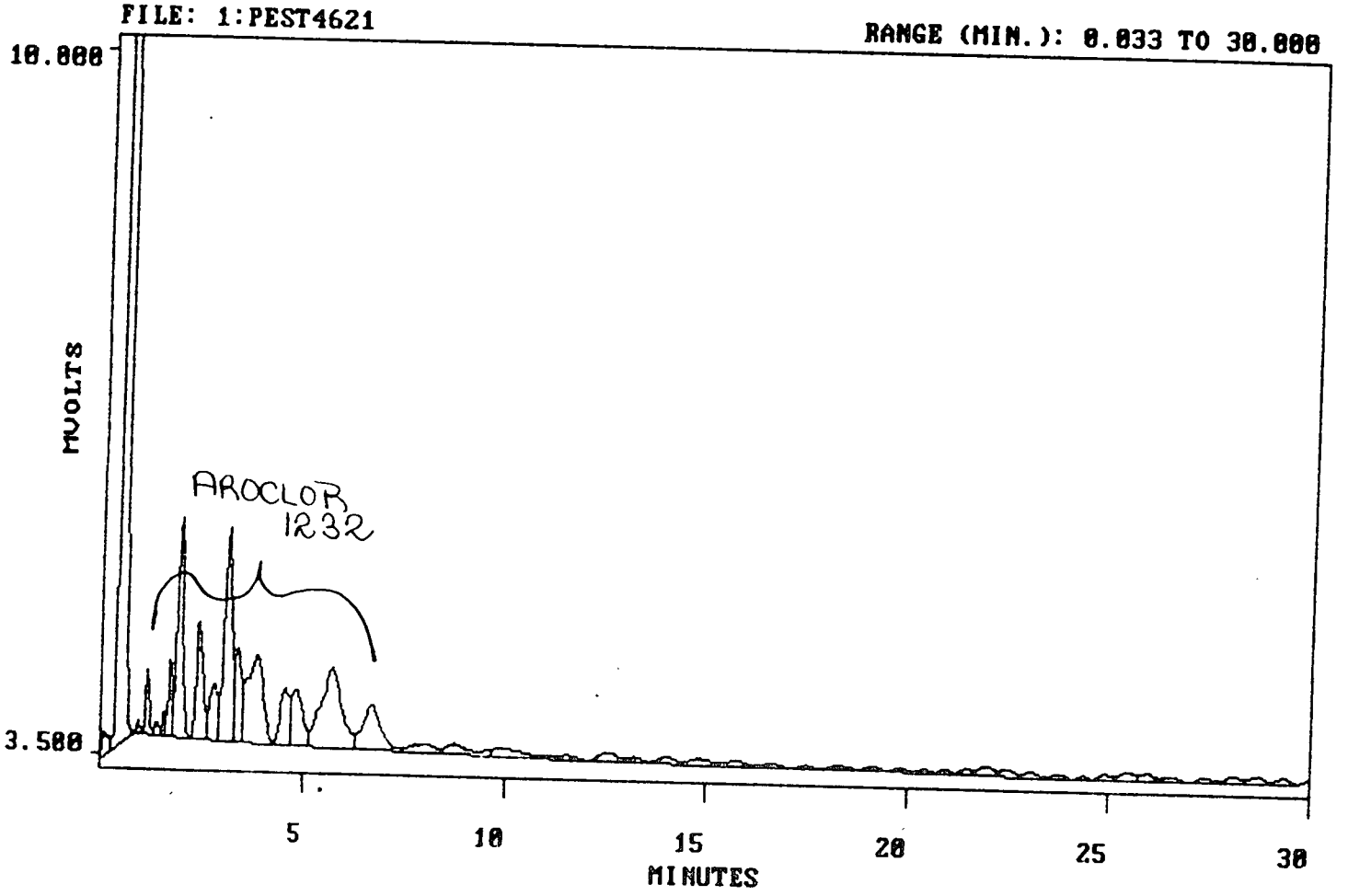
PS1766

AROCLOR 1232 STD, MIX

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time: 09:49:14 Date: THU 10 SEP 87

Time: 23:20:33 Date: WED 09 SEP 87
Method: PEST1



$\Sigma_{1232} = 164719$

RF = 32.9

Channel #.....4 Time:23:51:19 Date:WED 09 SEP 87
Run #11 of 50

Sample name.....
Data file.....DAT351:PEST4621
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....23:20:33 Acq. date....WED 09 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..47
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.575	LINDANE	0	
7.139	ENDOSULFAN I	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	

==========

AREA PERCENT REPORT

==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.135			0.108	2727	226	BV
2	0.501			91.220	2308557	536225	VB
3	0.945			0.034	856	132	BV
4	1.172			0.148	3734	625	VV
5	1.411			0.034	866	129	VV
6	1.581			0.057	1449	235	VV
7	1.713			0.220	5576	753	VV

8	1.925	~~alpha-BHC~~ MLR	0.809	20485	2134	VB
9	2.424		0.503	12722	1136	BV
10	2.785	~~beta-BHC~~ MLR	0.287	7262	538	VV
11	3.102	~~HEPTACHLOR~~ MLR	1.108	28044	2051	VV
12	3.369	~~delta-BHC~~ MLR	0.428	10833	891	VV
13	3.837	~~ALDRIN~~ MLR	0.841	21279	851	VB
		AROCLOR 1232				
14	4.532		0.341	8622	552	BV
15	4.809		0.396	10015	541	VV
16	5.676	~~HEPTACHLOR EPOXI~~ MLR	1.054	26683	763	VV
17	6.657		0.522	13198	428	VV
18	8.017	~~P,P'-DDE~~ MLR	0.126	3183	73	VV
19	8.712	~~DIELDRIN~~ MLR	0.168	4248	94	VV
20	9.927		0.156	3941	81	VV
21	11.525		0.067	1692	43	VB
22	12.544	~~P,P'-DDD~~ MLR	0.116	2926	87	BV
23	13.211		0.049	1241	50	VV
24	14.033		0.077	1952	65	VV
25	14.822	~~P,P'-DDT~~ MLR	0.087	2206	58	VV
26	15.722		0.059	1483	50	VB
27	16.595	~~ENDRIN ALDEHYDE~~ MLR	0.034	864	35	BB
28	17.467		0.030	752	32	BB
29	18.258		0.050	1257	45	BV
30	19.100		0.042	1063	39	VB
31	19.820		0.026	648	36	BB
32	20.940		0.022	563	33	BV
33	21.500		0.046	1158	58	VV
34	21.959		0.102	2579	93	VV
35	22.500 S	~~MIREX (STD.)~~ MLR	0.063	1600	69	VV
36	23.064		0.044	1123	49	VV
37	23.780		0.035	883	42	VB
38	24.387		0.022	567	35	BV
39	24.939		0.050	1264	56	VV
40	25.512		0.090	2272	88	VV
41	25.992		0.068	1718	78	VV
42	26.583		0.047	1195	47	VB
43	27.425		0.042	1060	42	BV
44	28.127	~~DBC/METHOX/END.K~~ MLR	0.064	1628	62	VV
45	28.728		0.066	1678	65	VV
46	29.367		0.044	1118	49	VB
TOTALS			100.000	2530770		

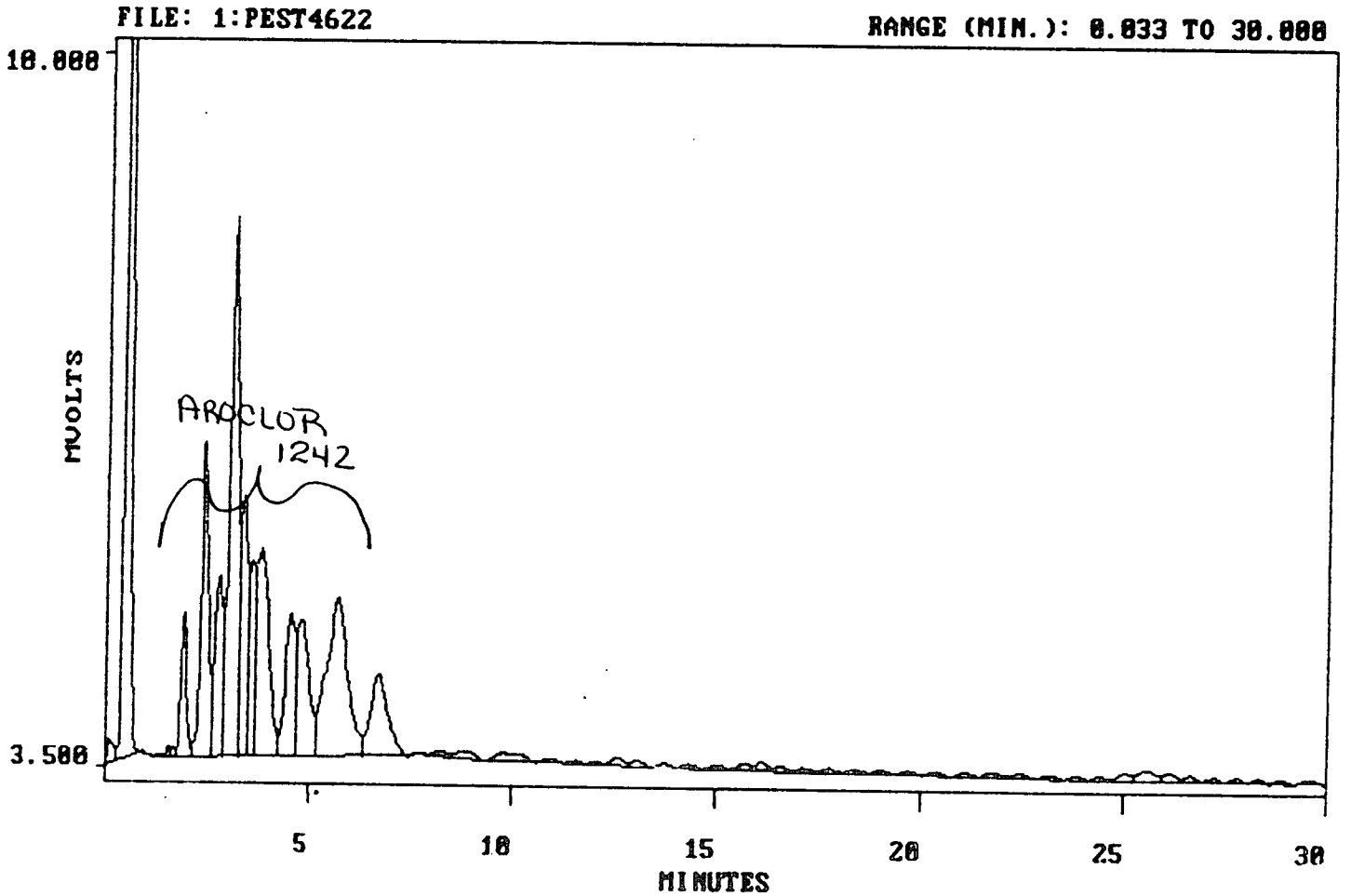
PS1764

AROCLOR 1242 STD MIX

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:09:51:54 Date:THU 10 SEP 87

Time:23:52:18 Date:WED 09 SEP 87
Method:PEST1



$\Sigma = 358188$

RF = 71.6

811

Channel #.....4 Time:00:23:03 Date:THU 10 SEP 87
Run #12 of 50

Sample name.....
Data file.....DAT351:PEST4622
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....23:52:18 Acq. date....WED 09 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..50
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.575	LINDANE	0	
7.139	ENDOSULFAN I	0	
10.558	ENDRIN	0	

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AREA PERCENT REPORT

==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.128			0.109	2934	244	BV
2	0.500			85.115	2288191	534525	VB
3	1.584			0.034	923	104	BV
4	1.705			0.024	647	102	VV
5	1.925		~~alpha-BHC~~ NLL	0.481	12940	1382	VV
6	2.419			1.301	34985	3021	VV
7	2.788		~~beta-BHC~~ NLL	0.897	24124	1714	VV
8	3.100		~~HEPTACHLOR~~ NLL	2.738	73613	5137	VV

818

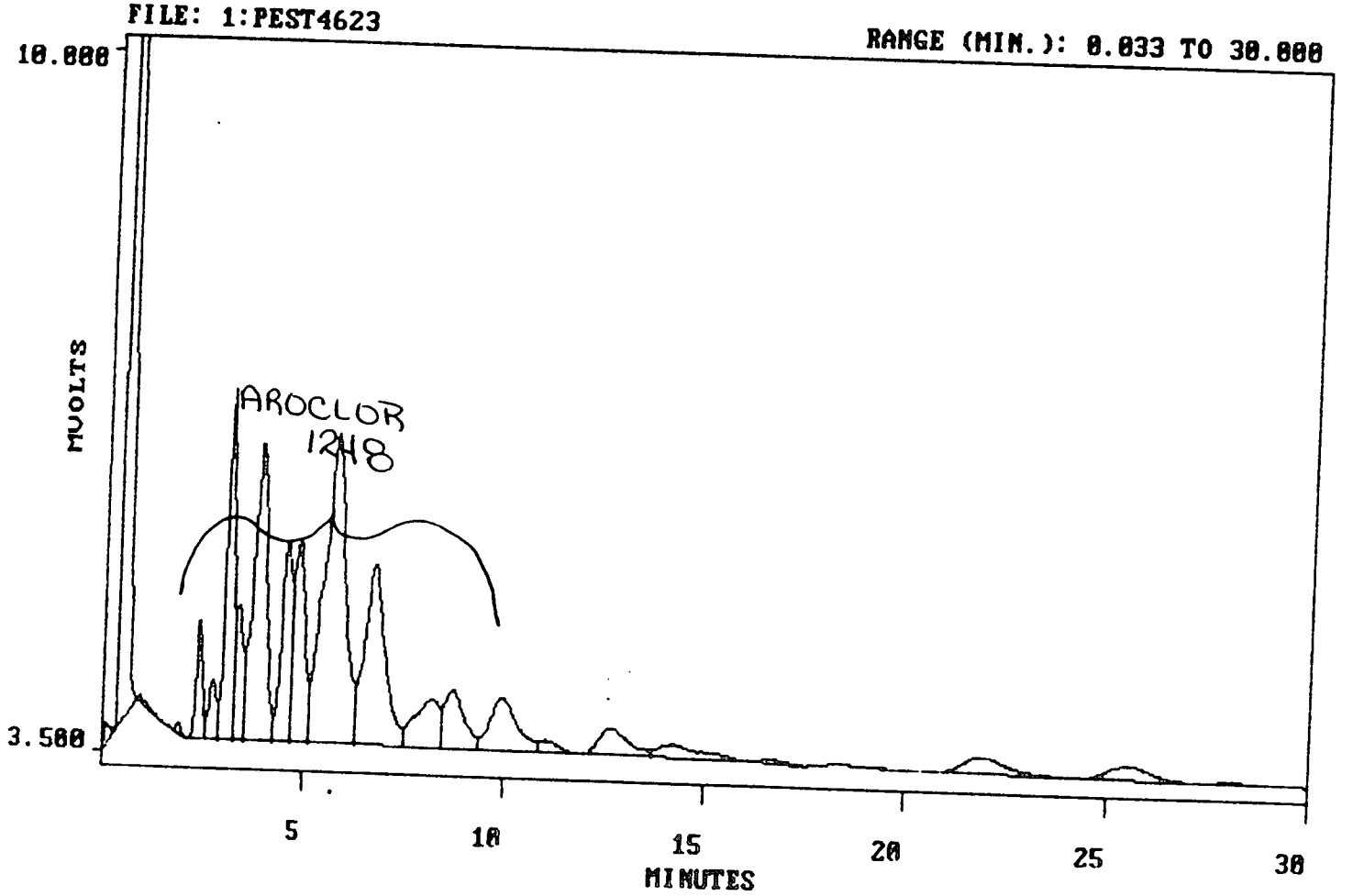
9	3.368		~~delta-BHC~~ MLK	1.136	30536	2461	VV
10	3.605			0.668	17949	1843	VV
11	3.823		~~ALDRIN~~ MLK	1.463	39325	1965	VV
12	4.535			0.836	22478	1340	VV
13	4.794			0.941	25290	1296	VV
14	5.665		~~HEPTACHLOR EPOXI~~ Aroclor 1242 MLK	1.993	53570	1504	VV
15	6.658			0.870	23378	785	VB
16	8.250		~~P,P'-DDE~~ MLK	0.041	1097	47	BV
17	8.844		~~DIELDRIN~~ MLK	0.080	2157	70	VB
18	9.785			0.134	3590	83	BB
19	10.933			0.031	831	36	BV
20	11.545			0.019	523	34	VB
21	12.051			0.022	584	35	BV
22	12.574		~~P,P'-DDD~~ MLK	0.065	1753	74	VV
23	13.083		~~ENDOSULFAN II~~ MLK	0.040	1075	51	VB
24	14.332			0.026	708	38	BB
25	15.021		~~P,P'-DDT~~ MLK	0.032	869	39	BV
26	15.723			0.058	1560	66	VV
27	16.168			0.063	1689	78	VV
28	16.624		~~ENDRIN ALDEHYDE~~ MLK	0.031	831	48	VV
29	17.150			0.028	751	37	VV
30	17.778			0.030	797	42	VB
31	18.397			0.030	794	38	BV
32	19.018			0.028	743	38	VV
33	19.688			0.027	715	37	VB
34	20.343			0.026	705	35	BB
35	21.086			0.030	819	36	BV
36	21.756			0.042	1134	49	VV
37	22.420	S	~~MIREX (STD.)~~ MLK	0.036	964	37	VB
38	23.175			0.028	744	34	BB
39	23.850			0.020	531	32	BB
40	24.429			0.028	755	38	BV
41	25.095			0.064	1725	70	VV
42	25.609			0.122	3283	102	VV
43	26.182			0.068	1829	81	VV
44	26.713			0.035	940	52	VV
45	27.288			0.021	563	36	VB
46	27.862		~~DBC/METHOX/END K~~ MLK	0.024	648	35	BV
47	28.405			0.020	530	35	VB
48	28.926			0.022	591	37	BB
49	29.610			0.024	648	30	BB
TOTALS				100.000	2688359		

PS 1767
AROCLOR 1248

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:09:54:23 Date:THU 10 SEP 87

Time:00:24:03 Date:THU 10 SEP 87
Method:PEST1



$\Sigma = 451833$

RF = 90.4

814

Channel #.....4 Time:00:54:44 Date:THU 10 SEP 87
Run #13 of 50

Sample name .....
Data file.....DAT351:PEST4623
Method name.....PEST1

Author.....URM
Instrument.....4
Column .....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....00:24:03 Acq. date....THU 10 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens....0.70 uv/sec.

Area reject....500
peaks found..24
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor..1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.042	alpha-BHC	0	
2.575	LINDANE	0	
2.924	beta-BHC	0	
7.139	ENDOSULFAN I	0	
10.558	ENDRIN	0	
12.395	P,P'-DDD	0	
15.193	P,P'-DDT	0	
22.759	MIREX (STD.)	0	S

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AREA PERCENT REPORT

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Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.134			0.066	2277	204	BV
2	0.505			85.235	2933576	631144	VB
3	0.937			0.023	794	66	BB
4	1.917			0.018	623	91	BB

815

5	2.417		0.352	12103	1200 BV
6	2.765		0.222	7643	577 VV
7	3.102	~~HEPTACHLOR~~ MLR	1.358	46752	3393 VV
8	3.360	~~delta-BHC~~ MLR	0.441	15165	1321 VV
9	3.850	~~ALDRIN~~ MLR	1.879	64662	2875 VV
10	4.522		0.925	31822	1951 VV
		AROCLOR 1248			
11	4.810		1.064	36624	1946 VV
12	5.678	~~HEPTACHLOR EPOXI~~ MLR	3.172	109184	2996 VV
13	6.652		1.812	62361	1755 VV
14	8.153	~~P,P'-DDE~~ MLR	0.596	20521	478 VV
15	8.688	~~DIELDRIN~~ MLR	0.582	20021	567 VV
16	9.928		0.726	24975	521 VV
17	11.030		0.110	3774	120 VB
18	12.650	~~ENDOSULFAN II~~ MLR	0.398	13693	264 BV
19	14.233		0.290	9976	131 VB
20	16.675	~~ENDRIN ALDEHYDE~~ MLR	0.038	1306	33 BB
21	21.893		0.354	12184	162 BB
22	25.587		0.306	10544	137 BB
23	28.100	~~DBC/METHOX/END K~~ MLR	0.033	1152	29 BB
TOTALS			100.000	3441732	

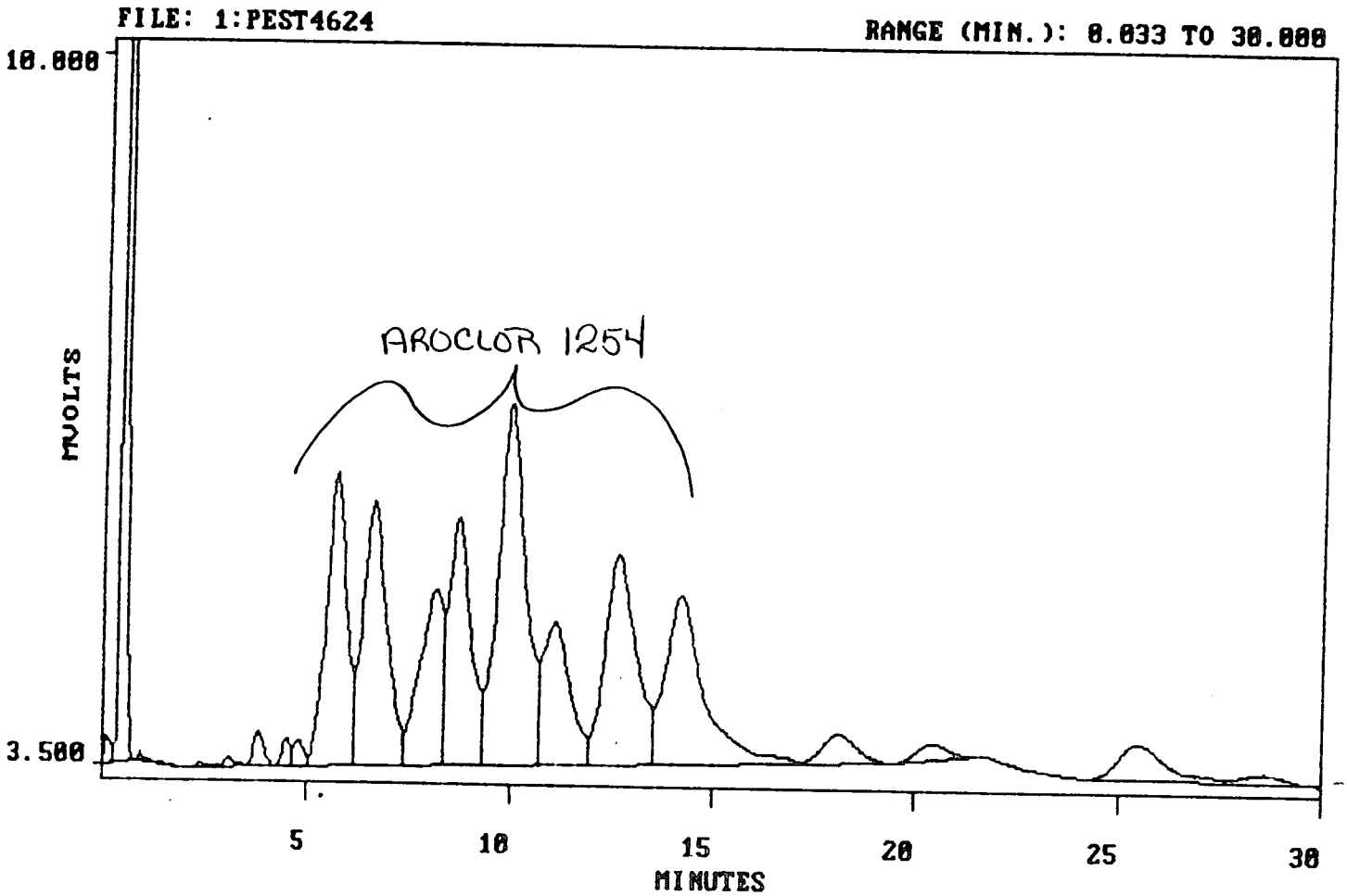
PS1798

AROCLOR 1254 Std Mix

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:09:56:54 Date:THU 10 SEP 87

Time:00:55:32 Date:THU 10 SEP 87
Method:PEST1



$\Sigma = 785720$

$RF = 128.8$

817

Channel #.....4 Time:01:26:11 Date:THU 10 SEP 87
Run #14 of 50

Sample name.....
Data file.....DAT351:PEST4624
Method name.....PEST1

Author.....URM
Instrument.....4
Column.....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes.....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....00:55:32 Acq. date....THU 10 SEP 87
Start PW.....20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens.....0.70 uv/sec.

Area reject....500
peaks found..20
Vol. Inj.....5.0 ul Sample amount..1.000
Conv. factor...1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.042	alpha-BHC	0	
2.575	LINDANE	0	
2.924	beta-BHC	0	
3.393	delta-BHC	0	
7.139	ENDOSULFAN I	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
22.759	MIREX (STD.)	0	S

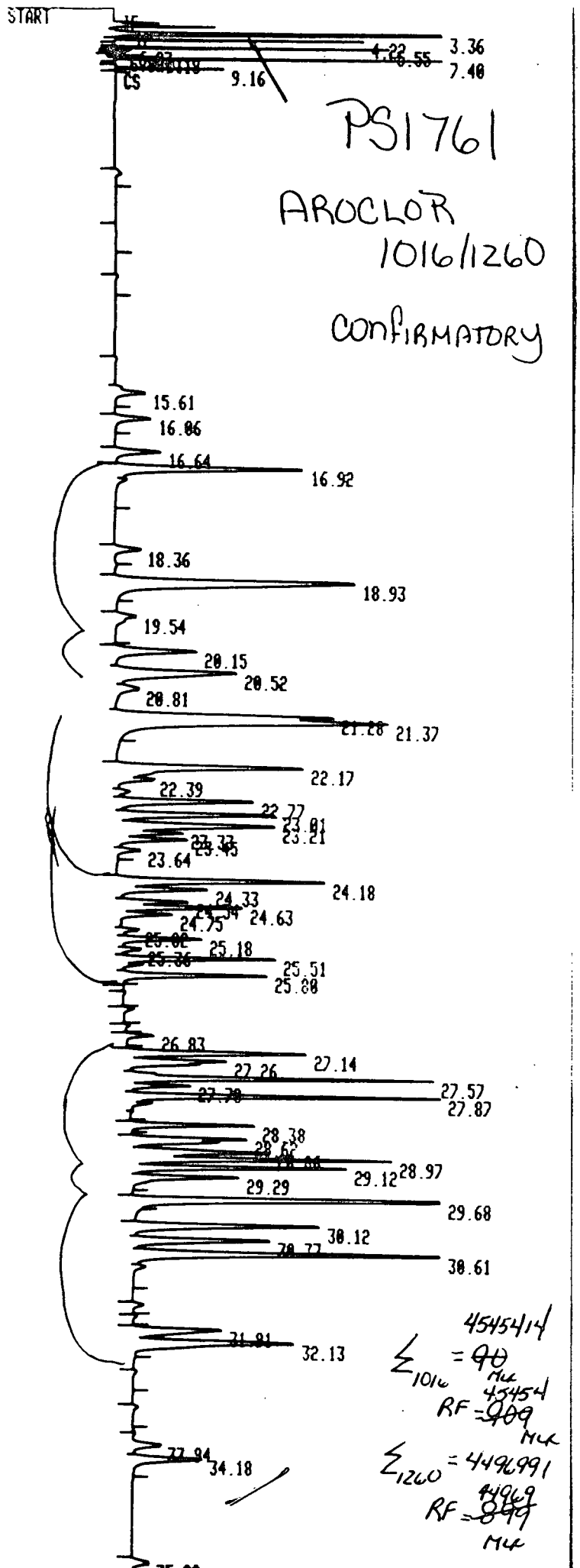
==========

AREA PERCENT REPORT

==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.129			0.120	3288	253	BV
2	0.496			68.401	1877389	452688	VB

3	0.943		0.046	1262	87	BB
4	2.413		0.033	901	40	BV
5	3.092	~~HEPTACHLOR~~ MLL	0.059	1633	95	VV
6	3.817	~~ALDRIN~~ MLL	0.209	5736	341	VB
7	4.504		0.148	4062	263	BV
8	4.798		0.152	4170	245	VV
9	5.661	~~HEPTACHLOR EPOXI~~ MLL	3.403	93400	2791	VV
10	6.564		3.700	101543	2511	VV
11	8.117	~~P,P'-DDE~~ MLL	2.447	67149	1666	VV
12	8.661	~~DIELDRIN~~ MLL	3.159	86691	2343	VV
13	9.926		5.807	159371	3434	VV
14	11.048		2.266	62204	1345	VV
15	12.598	~~P,P'-DDD~~ MLL	3.913	107395	1986	VV
16	14.163	Aroclor 1254	3.934	107967	1600	VV
17	18.067		0.602	16514	282	VB
18	20.428		0.332	9113	160	BB
19	25.561		1.035	28412	337	BV
20	28.617	~~DBC/METHOX/END.K~~ MLL	0.235	6461	90	VB
TOTALS			100.000	2744661		



RUN # 158 SEP/14/87 14:32:56
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 7

SPB 608
HP5890

AREA%

RT	AREA	TYPE	AR/HT	AREA%
3.36	6808200	BB	0.124	37.065
4.22	328690	PB	0.071	1.789
5.55	192390	PB	0.037	1.047
6.89	20774	PV	0.007	0.113
7.01	27116	VV	0.050	0.148
7.18	41502	VP	0.048	0.226
7.40	1144400	PB	0.037	6.230
9.16	102050	PB	0.049	0.556
15.61	50124	VB	0.007	0.273
16.06	51878	PB	0.078	0.282
16.64	69784	BV	0.002	0.380
16.92	292260	VV	0.003	1.591
18.36	38813	PB	0.077	0.211
18.93	576850	PB	0.128	3.140
19.54	47892	PB	0.124	0.261
20.15	154520	PV	0.101	0.841
20.52	295410	VV	0.129	1.608
20.81	60604	VP	0.131	0.330
21.28	326390	PV	0.081	1.777
21.37	570160	VB	0.112	3.104
22.17	341290	BV	0.098	1.858
22.39	62617	VV	0.086	0.341
22.77	202240	VV	0.079	1.101
23.01	221410	VV	0.075	1.205
23.21	263620	VV	0.089	1.435
23.33	85441	VV	0.070	0.465
23.45	93774	VV	0.072	0.511
23.64	28798	VB	0.066	0.157
24.18	283850	BV	0.073	1.545
24.33	120320	VV	0.072	0.655
24.54	75713	VV	0.058	0.412
24.63	145720	VV	0.063	0.793
24.75	67217	VP	0.068	0.366
25.02	23460	PV	0.063	0.128
25.18	93538	VV	0.062	0.509
25.36	24487	VV	0.063	0.133
25.51	157270	VV	0.055	0.856
25.80	154750	PB	0.057	0.843
26.83	27897	PB	0.055	0.152
27.14	227140	PV	0.068	1.237
27.26	110560	VV	0.060	0.602
27.57	344800	VV	0.060	1.877
27.70	69460	VV	0.061	0.378
27.87	357400	VV	0.056	1.946
28.38	128890	BB	0.056	0.702
28.62	119270	BV	0.056	0.649
28.86	210590	VV	0.082	1.147
28.97	312110	VV	0.064	1.699
29.12	243760	VV	0.061	1.327
29.29	138000	VB	0.070	0.751
29.68	781120	PB	0.066	4.253
30.12	245200	BV	0.071	1.335
30.37	191050	VV	0.075	1.040
30.61	546840	VV	0.072	2.977
31.91	157340	PV	0.096	0.857
32.13	313130	VB	0.105	1.705
33.94	52483	BV	0.097	0.286
34.18	114510	VB	0.091	0.623
35.98	31743	PB	0.097	0.173

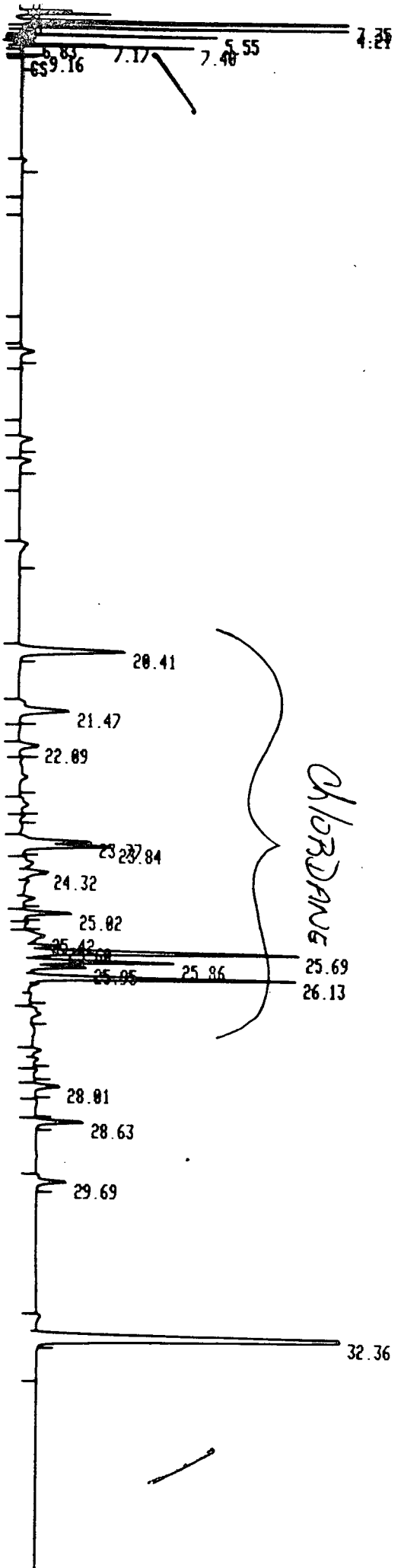
AROCLOR 1016

AROCLOR 1260

TOTAL AREA= 1.8368E+07
MUL FACTOR= 1.0000E+00

RAW DATA TRANSMITTED FILE: RW4065::-27
CORR-RTS TRANSMITTED FILE: CR4065::-27

820



PS1730

Chlordane Std Mix

CONFIRMATORY

RUN # 157 SEP/14/87 13:42:38
WORKFILE ID: B
WORKFILE NAME:
SAMPLE # 6

SPB608
HP5890

AREA%

RT	AREA	TYPE	AR/HT	AREA%
3.35	3596500	BB	0.124	52.067
4.21	515390	PB	0.072	7.461
5.55	135890	PB	0.037	1.967
7.17	67104	PB	0.042	0.972
7.40	127260	BB	0.040	1.842
9.16	22101	PB	0.059	0.320
20.41	165940	PB	0.084	2.402
21.47	89172	PB	0.097	1.291
22.09	22301	PB	0.062	0.323
23.77	77954	PV	0.061	1.129
23.84	99405	VB	0.061	1.439
24.32	40402	VV	0.086	0.585
25.02	45651	PB	0.053	0.661
25.42	46710	PV	0.125	0.676
25.60	34989	VV	0.055	0.507
25.69	268500	VV	0.052	3.887
25.86	138140	VV	0.050	2.000
25.95	59873	VV	0.056	0.867
26.13	248410	VV	0.049	3.596
28.01	29217	PB	0.063	0.423
28.63	49427	PB	0.057	0.716
29.69	40089	BB	0.072	0.580
32.36	987030	PB	0.078	14.289

CHLORDANE

TOTAL AREA= 6907500
MUL FACTOR= 1.0000E+00

RAW DATA TRANSMITTED / FILE: RW4050::-27
CARD-PTS TRANSMITTED / FILE: CP4059::-27

$\Sigma = 1337447$

RF = 534.9

H2M LABORATORY

VIII. Raw Q.C. Data Package

1. Tuning
2. Blank
3. Spike and Spike Duplicate

for scans:

___X___GC/MS Volatiles
___X___GC/MS Extractables
___X___Pesticides/PCB's
_____GC Volatiles
___X___Metals

MASS LIST
08/26/87 16:59:00 + 9:48
SAMPLE: 50 NG BFB
CONDS. :
ENHANCED (S 15B 2N 0T)

DATA: PU7412 # 196
CALI: PU7435 # 2

BASE M/Z: 95
RIC: 90112.

46 0.00 0.00 0.
243 # 0
MASS % RA % RIC INTEN.

MINIMA MIN INTEN: 0.
MAXIMA

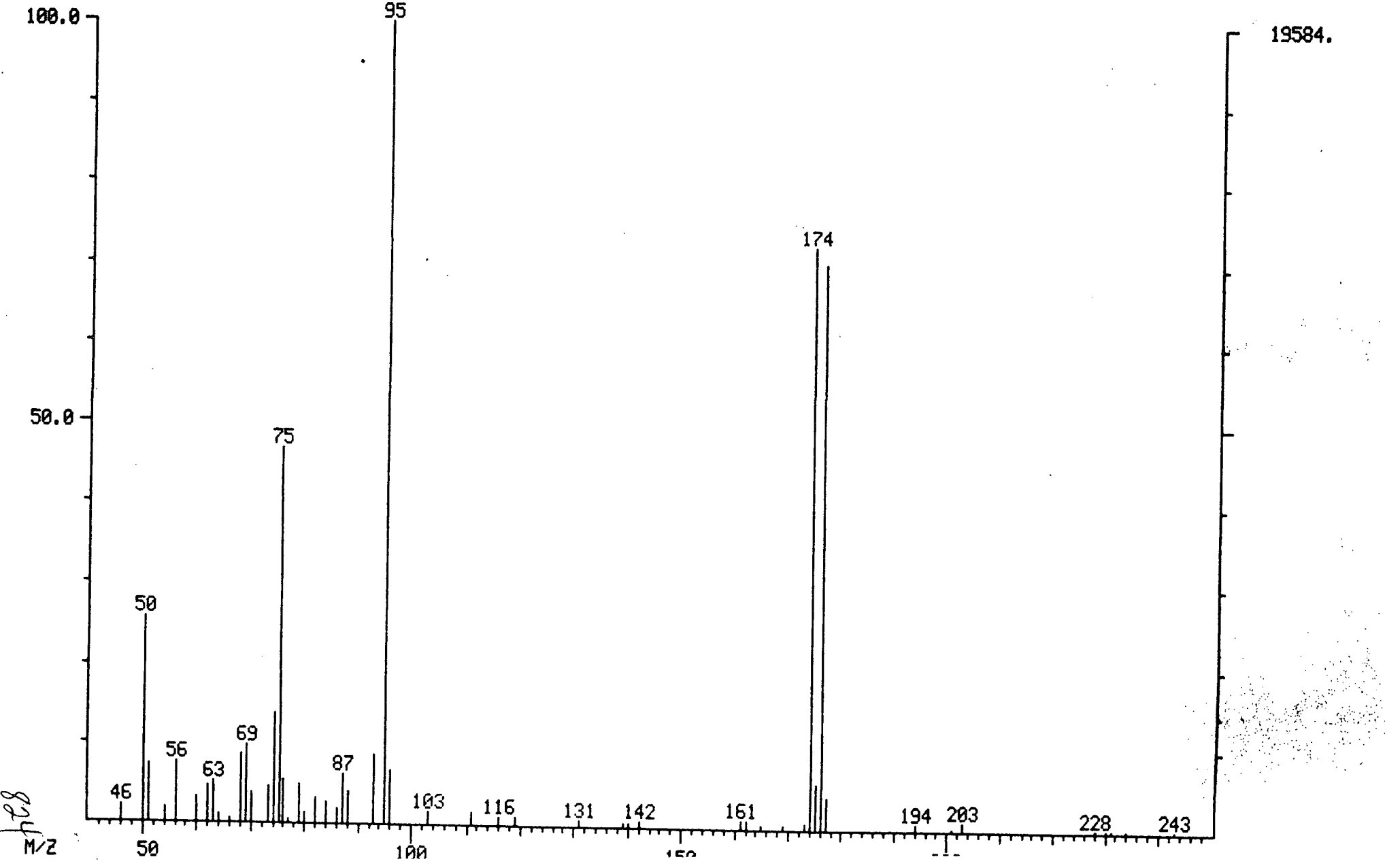
MASS	% RA	% RIC	INTEN.
46.00?	2.05	0.45	402.
50.00?	25.78	5.60	5048.
51.00?	7.23	1.57	1416.
54.00?	1.94	0.42	379.
56.00?	7.53	1.64	1474.
60.00?	3.15	0.68	617.
62.00?	4.63	1.01	906.
63.00?	5.13	1.11	1004.
64.00?	1.07	0.23	210.
66.00?	0.55	0.12	108.
68.00?	8.56	1.86	1676.
69.00	9.77	2.12	1914.
70.00	3.78	0.82	740.
73.00	4.52	0.98	886.
74.00	13.64	2.97	2672.
75.00	46.90	10.19	9184.
76.00	5.40	1.17	1058.
77.00	0.58	0.13	113.
79.00	4.89	1.06	958.
80.00	1.38	0.30	270.
82.00	3.28	0.71	642.
84.00	2.61	0.57	511.
86.00	1.98	0.43	387.
87.00	6.10	1.33	1194.
88.00	4.03	0.88	789.
93.00	8.70	1.89	1704.
95.00	100.00	21.73	19584.
96.00	6.79	1.48	1330.
103.00	1.55	0.34	304.
111.00	1.74	0.38	340.
116.00	1.06	0.23	208.
119.00	0.94	0.21	185.
131.00	0.86	0.19	169.
139.00	0.60	0.13	117.
140.00	0.45	0.10	88.
142.00	0.80	0.17	157.
161.00	1.02	0.22	200.
162.00	0.98	0.21	192.
165.00	0.64	0.14	126.
169.00	0.47	0.10	92.
173.00	0.71	0.16	140.
174.00	72.39	15.73	14176.
175.00	5.54	1.20	1084.
176.00	70.18	15.25	13744.
177.00	3.98	0.86	779.
194.00	0.72	0.16	141.
201.00	0.22	0.05	43.
203.00	0.99	0.21	193.
228.00	0.40	0.09	78.
230.00	0.37	0.08	72.

MASS	% RA	% RIC	INTEN.
231.00	0.37	0.08	73.
234.00	0.37	0.08	73.
243.00	0.35	0.08	69.

MASS SPECTRUM
08/26/87 16:59:00 + 9:48
SAMPLE: 50 NG BFB
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7412 #196
CALI: PU7435 #2

BASE M/Z: 95
RIC: 90112.



Mass List
08/28/87 8:53:00 + 9:18
Sample: 2UL BFB #24
Conds. :
Enhanced (S 15B 2N 0T)

Data: PU7430 # 186
Cali: PU7430 # 2

Base m/z: 95
RIC: 47744.

47 0.00 0.00 0.
259 # 0

Minima Min inten: 0.
Maxima

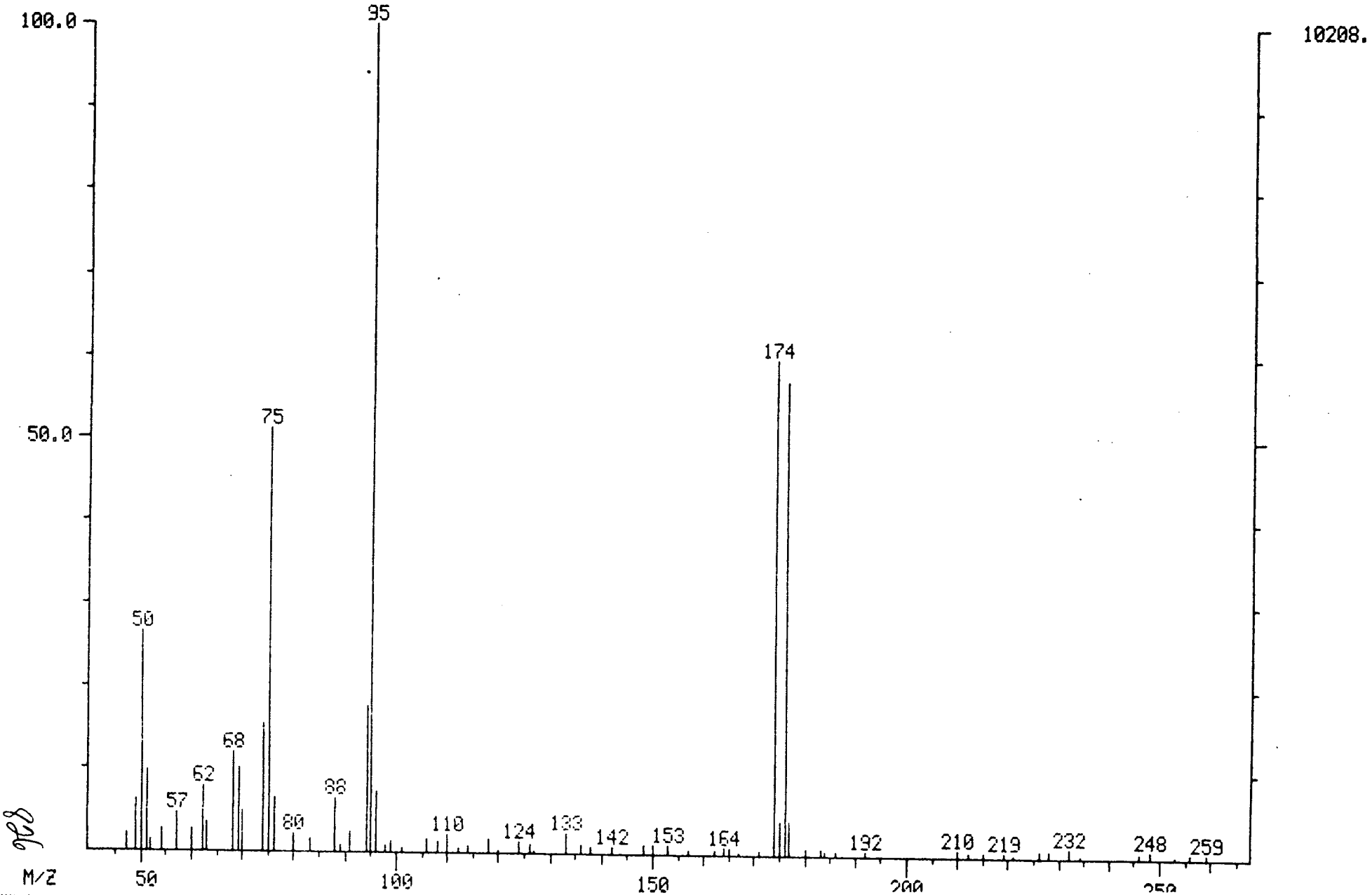
Mass	% RA	% RIC	Inten.
47.00?	2.19	0.47	224.
49.00?	6.23	1.33	636.
50.00?	26.65	5.70	2720.
51.00?	9.60	2.05	980.
52.00?	1.45	0.31	148.
54.00?	2.64	0.56	269.
57.00?	4.59	0.98	469.
60.00?	2.70	0.58	276.
62.00?	7.73	1.65	789.
63.00?	3.61	0.77	369.
68.00?	11.76	2.51	1200.
69.00	10.07	2.15	1028.
70.00	4.96	1.06	506.
74.00	15.22	3.25	1554.
75.00	51.18	10.94	5224.
76.00	6.57	1.41	671.
80.00	2.19	0.47	224.
83.00	1.59	0.34	162.
86.00	0.07	0.01	7.
88.00	6.52	1.39	666.
89.00	0.86	0.18	88.
91.00	2.34	0.50	239.
94.00	17.54	3.75	1790.
95.00	100.00	21.38	10208.
96.00	7.17	1.53	732.
98.00	0.70	0.15	71.
99.00	1.42	0.30	145.
101.00	0.65	0.14	66.
106.00	1.61	0.34	164.
108.00	1.23	0.26	126.
110.00	2.21	0.47	226.
112.00	0.66	0.14	67.
114.00	0.87	0.19	89.
118.00	1.63	0.35	166.
120.00	0.40	0.09	41.
124.00	1.40	0.30	143.
126.00	1.20	0.26	123.
127.00	0.37	0.08	38.
133.00	2.50	0.53	255.
136.00	1.12	0.24	114.
138.00	0.78	0.17	80.
142.00	0.87	0.19	89.
148.00	0.96	0.21	98.
150.00	0.95	0.20	97.
153.00	1.10	0.23	112.
157.00	0.42	0.09	43.
162.00	0.49	0.10	50.
164.00	0.86	0.18	88.
165.00	0.81	0.17	83.
167.00	0.25	0.05	26.

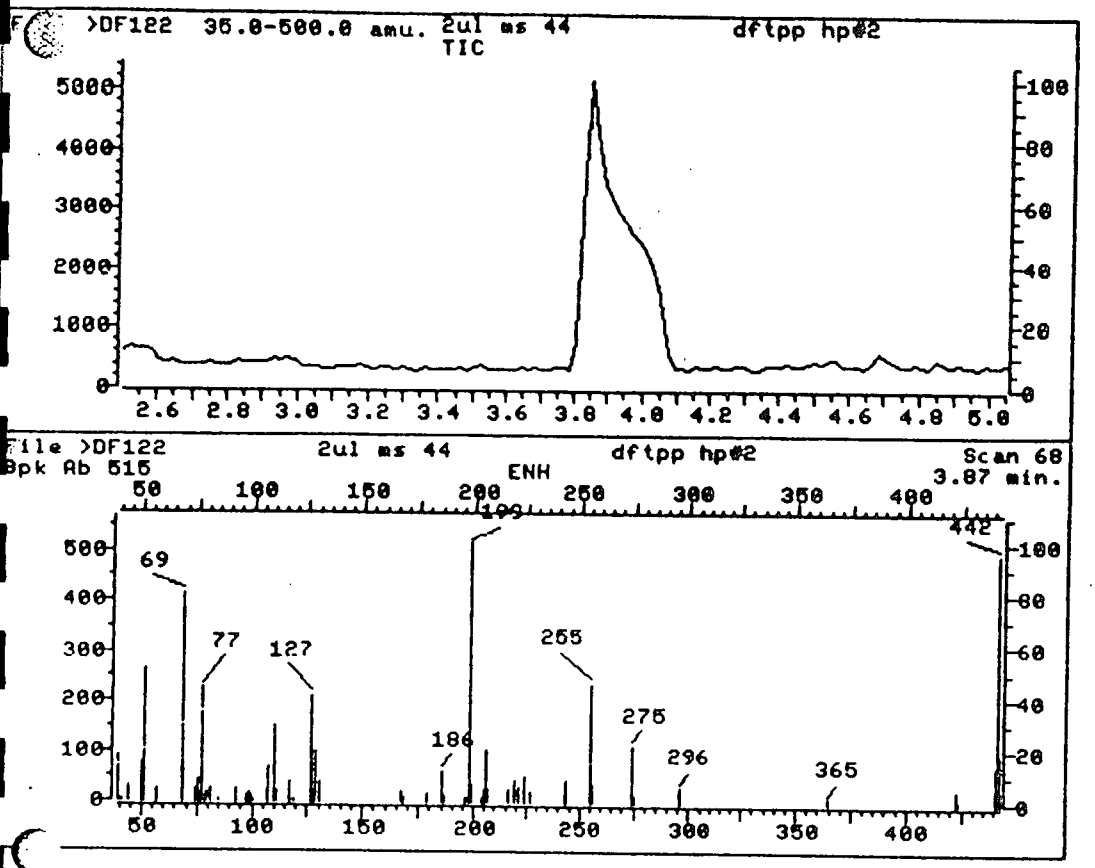
Mass	% RA	% RIC	Inten.
171.00	0.66	0.14	67.
174.00	59.56	12.73	6080.
175.00	4.02	0.86	410.
176.00	56.90	12.16	5808.
177.00	4.01	0.86	409.
180.00	0.91	0.19	93.
183.00	0.71	0.15	72.
184.00	0.48	0.10	49.
186.00	0.64	0.14	65.
192.00	0.66	0.14	67.
210.00	0.84	0.18	86.
212.00	0.60	0.13	61.
215.00	0.57	0.12	58.
219.00	0.67	0.14	68.
221.00	0.27	0.06	28.
226.00	0.76	0.16	78.
228.00	0.87	0.19	89.
232.00	0.98	0.21	100.
234.00	0.39	0.08	40.
246.00	0.41	0.09	42.
248.00	0.69	0.15	70.
253.00	0.34	0.07	35.
256.00	0.65	0.14	66.
259.00	0.66	0.14	67.

MASS SPECTRUM
08/28/87 8:53:00 + 9:18
SAMPLE: 2UL BFB #24
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7430 #186
CALI: PU7430 #2

BASE M/Z: 95
RIC: 47744.

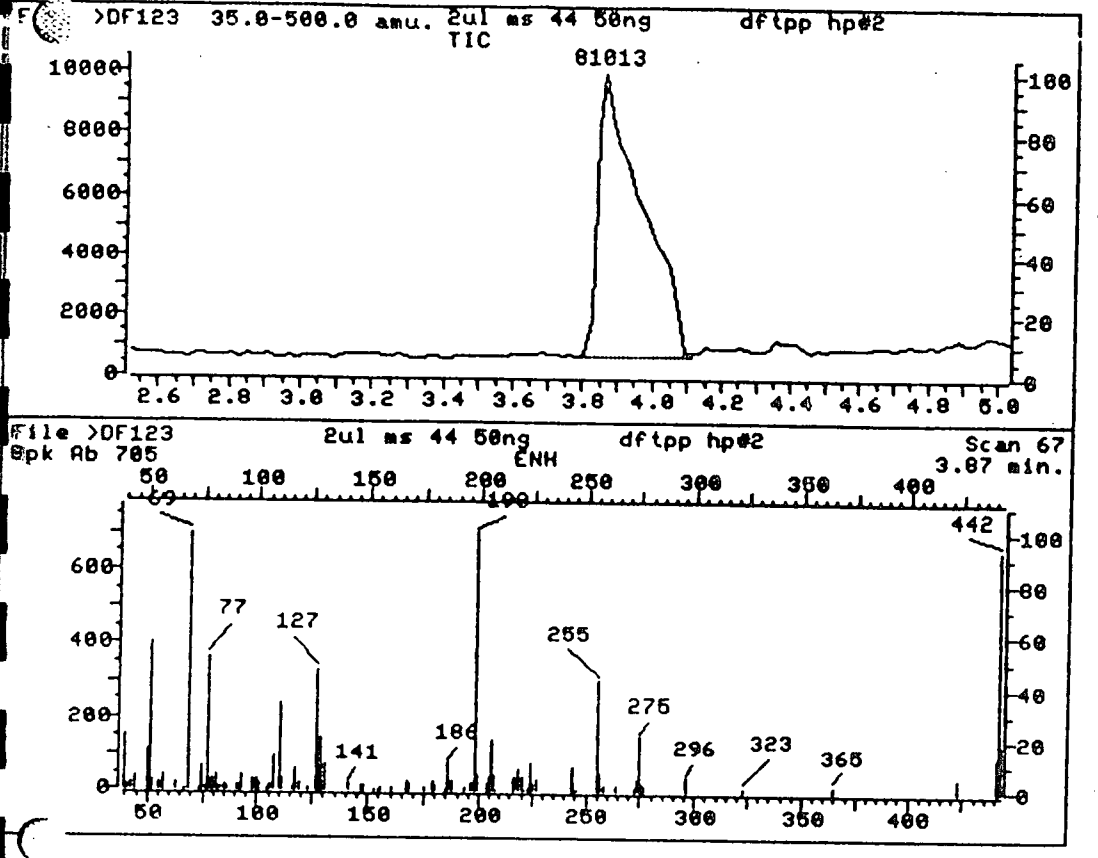




>DF122 2ul ms 44 dftpp hp#2
68 NRM ENH

File: >DF122 Scan #: 68 Retn. time: 3.87

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
38.95	6.084	77.75	1.294	116.80	7.573	197.80	100.000	254.75	45.631
39.85	17.476	78.85	3.301	118.85	.841	198.80	6.278	255.95	6.278
40.95	.647	80.95	4.854	126.85	40.583	203.95	1.942	274.90	21.618
43.85	5.631	85.05	.841	127.75	2.330	204.75	4.854	275.90	2.718
49.95	14.693	93.05	5.372	128.85	18.770	205.85	19.806	295.85	5.631
50.85	51.003	97.90	2.460	130.75	7.443	206.95	4.854	364.80	1.748
56.80	5.113	98.90	3.495	166.95	4.272	216.75	4.919	422.65	5.372
68.90	80.388	99.70	2.395	167.95	1.553	218.95	8.026	423.75	.712
73.90	5.437	99.90	1.165	178.75	3.042	220.95	5.955	440.90	13.786
74.90	8.026	106.90	13.010	185.90	11.909	223.95	10.291	441.90	96.181
75.95	2.460	109.90	29.256	186.80	2.524	226.90	4.337	442.90	18.317
76.85	43.754	110.90	4.401	195.70	2.136	243.90	8.026		



>DF123 2ul ms 44 50ng dftpp hp#2
67 NRM ENH

File: >DF123 Scan #: 67 Retn. time: 3.87

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
39.10	5.108	79.85	1.935	116.85	8.661	180.00	2.111	227.00	4.325
39.90	21.913	80.95	5.653	118.95	2.815	184.90	.499	243.95	9.580
41.00	1.436	81.70	.556	122.95	.596	185.90	10.590	244.95	.482
42.90	2.963	82.70	.778	126.95	46.623	187.10	3.405	245.85	.488
44.00	5.289	82.90	.096	127.90	1.407	193.00	.556	254.95	42.968
50.00	15.948	85.00	1.504	128.90	20.834	196.00	2.900	256.05	6.351
51.00	57.140	86.00	.533	129.90	1.135	197.85	100.000	257.85	1.504
51.90	3.167	90.80	1.430	130.90	9.722	198.95	5.880	264.05	2.128
54.90	2.883	91.70	.068	140.90	2.491	203.85	2.554	273.00	.607
56.00	1.731	92.90	6.243	146.80	1.453	204.85	4.705	274.10	3.854
57.00	5.636	97.90	3.820	148.00	2.083	205.95	19.694	275.00	21.396
62.95	2.571	99.10	2.747	152.75	.437	206.95	5.817	276.00	2.832
66.95	.068	99.90	4.591	154.75	.068	207.85	.068	277.00	1.572
68.85	99.569	100.90	2.247	155.95	.817	216.95	4.688	295.95	4.869
72.95	.085	104.00	.465	160.95	.556	218.95	8.598	322.90	1.322
74.05	4.847	105.05	1.612	166.85	3.490	220.90	5.216	364.90	1.947
.85	9.415	106.95	13.439	167.75	2.185	221.70	.108	422.90	4.904
.95	.965	107.75	2.304	168.05	.114	222.90	.585	441.05	13.473
76.95	51.583	109.85	33.581	175.00	1.129	223.90	11.198	442.05	93.689
77.85	3.661	110.95	4.438	178.90	3.547	224.90	2.798	443.05	18.076
79.05	4.563	115.95	.522						

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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. Inst. Blank
Date Collected: 8/19/87 Date Received: 8/20/87
Type: Misc. Collected By: CL 99
Sample I.D.PU7414

Scan No.	C.A.S. No.		ug/l
	74-87-3	Chloromethane	10U
	74-83-9	Bromomethane	10U
	75-01-4	Vinyl Chloride	10U
	75-00-3	Chloroethane	10U
90	75-09-2	Methylene Chloride	13
	75-35-4	1,1-Dichloroethene	5U
	75-34-3	1,1-Dichloroethane	5U
	156-60-5	Trans-1,2-Dichloroethene	5U
	67-66-3	Chloroform	5U
	107-06-2	1,2-Dichloroethane	5U
	75-69-4	Trchlorofluormethane	5U
	71-55-6	1,1,1-Trichloroethane	5U
	56-23-6	Carbon Tetrachloride	5U
	75-27-4	Bromodichloromethane	5U

Scan No.	C.A.S. No.		ug/l
	78-87-5	1,2-Dichloropropane	5U
	10061-02-6	Trans-1,3-Dichloropropene	5U
	79-01-6	Trichloroethane	5U
	124-48-1	Dibromochloromethane	5U
	79-00-5	1,1,2-Trichloroethane	5U
	71-43-2	Benzene	5U
	10061-01-5	cis-1,3-Dichloropropene	5U
	110-75-8	2-Chloroethylvinylether	10U
	75-25-2	Bromoform	5U
	472127-18-4	Tetrachlorethane	5U
	79-34-5	1,1,2,2-Tetrachloroethane	5U
503	108-88-3	Toluene	2J
	108-90-7	Chlorobenzene	5U
	100-41-4	Ethylbenzene	5U
	541-73-1	1,3-Dichlorobenzene	5U
	95-50-1	1,2-Dichlorobenzene	5U
	106-66-7	1,4-Dichlorobenzene	5U

Date Reported: 9/17/87

Data Reporting Qualifiers (E = % dev. of cont. cal. exceeds 25%)

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

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

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

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < the specified detection limit but > zero (e.g 10J) If limit of detection is 10 ug/l and a concentration of 3.0 ug/l is calculated, report as 3J.

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

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

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

Optional Flags

N - Compound not present in Calibration File.

S.C. McLendon, P.E.

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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. Inst. Blank
Sample I.D. PU7414

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit/Rfit	Scan	Estimated Conc. ug/l
124389	Carbon dioxide	100 96	11	540J
541059	Hexamethyl-cyclotri-siloxane	86 86	649	180J

Date Reported: 9/16/87

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S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC. 575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040

HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. Inst. Blank
Date Collected: 8/28/87 Date Received: 8/28/87
Type: Misc. Collected By: CL 99
Sample I.D.PU7432

Scan No.	C.A.S. No.		ug/l
24	74-87-3	Chloromethane	13
	74-83-9	Bromomethane	10U
	75-01-4	Vinyl Chloride	10U
	75-00-3	Chloroethane	10U
96	75-09-2	Methylene Chloride	4J
	75-35-4	1,1-Dichloroethene	5U
	75-34-3	1,1-Dichloroethane	5U
	156-60-5	Trans-1,2-Dichloroethene	5U
	67-66-3	Chloroform	5U
	107-06-2	1,2-Dichloroethane	5U
	75-69-4	Trchlorofluormethane	5U
	71-55-6	1,1,1-Trichloroethane	5U
	56-23-6	Carbon Tetrachloride	5U
	75-27-4	Bromodichloromethane	5U

Scan No.	C.A.S. No.		ug/l
	78-87-5	1,2-Dichloropropane	5U
	10061-02-6	Trans-1,3-Dichloropropene	5U
	79-01-6	Trichloroethane	5U
	124-48-1	Dibromochloromethane	5U
	79-00-5	1,1,2-Trichloroethane	5U
343	71-43-2	Benzene	2J
	10061-01-5	cis-1,3-Dichloropropene	5U
	110-75-8	2-Chloroethylvinylether	10U
	75-25-2	Bromoform	5U
	472127-18-4	Tetrachlorethane	5U
	79-34-5	1,1,2,2-Tetrachloroethane	5U
	108-88-3	Toluene	5U
	108-90-7	Chlorobenzene	5U
	100-41-4	Ethylbenzene	5U
	541-73-1	1,3-Dichlorobenzene	5U
	95-50-1	1,2-Dichlorobenzene	5U
	106-66-7	1,4-Dichlorobenzene	5U

Date Reported: 9/17/87

Data Reporting Qualifiers (E = % dev. of cont. cal. exceeds 25%)

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

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

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

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is < the specified detection limit but > zero (e.g 10J) If limit of detection is 10 ug/l and a concentration of 3.0 ug/l is calculated, report as 3J.

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

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

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

Optional Flags

N - Compound not present in Calibration File.

S.C. McLendon, P.E.

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575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. Inst. Blank
Sample I.D. PU7~~414~~ 32 final

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit/Rfit	Scan	Estimated Conc. ug/l
	Unknown		8	550J
541059	Hexamethyl-cyclotri-siloxane	97 79	645	*300J

* Compound coelutes with bromofluorobenzene

Date Reported: 9/16/87

S.C. McLendon, P.E.
Laboratory Director

837

H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab Number Blank 180
Sample I.D. Sample #P3386
Collected By: CL 99

Factor: 1000

Scan #	C.A.S. Number		ug/l	C.A.S. Number		ug/l	Scan #
	65-75-9	N-Nitrosodimethylamine	10U	83-32-9	Acenaphthene	10U	
	108-95-2	Phenol	10U	51-28-5	2,4-Dinitrophenol	50U	
	111-44-4	bis(2-Chloroethyl)ether	10U	100-02-7	4-Nitrophenol	50U	
	95-57-8	2-Chloropheonol	10U	121-14-2	2,4-Dinitrotoluene	10U	
	541-73-1	1,3-Dichlorobenzene	10U	606-20-2	2,6-Dinitrotoluene	10U	
	106-46-7	1,4-Dichlorobenzene	10U	84-66-2	Diethylphthalate	10U	
	95-50-1	1,2-Dichlorobenzene	10U	7005-72-3	4-Chlorophenyl-phenylether	10U	
	39638329	bis(2-chloroisopropyl)ether	10U	86-73-7	Fluorene	10U	
	621-64-7	N-Nitroso-di-n-propylamine	10U	534-52-1	4,6-Dinitro-2-Methylphenol	50U	
	67-72-1	Hexachloroethane	10U	86-30-6	N-Nitrososdiphenylamine 1)	10U	
	98-95-3	Nitrobenzene	10U				
	78-59-1	Isophorone	10U	101-55-3	4-Bromophenyl-phenylether	10U	
	88-75-5	2-Nitrophenol	10U	118-74-1	Hexachlorobenzene	10U	
	105-67-9	2,4-Dimethylphenol	10U	87-86-5	Pentachlorophenol	50U	
				85-01-8	Phenanthrene	10U	
	111-91-1	bis(2-Chloroethoxy)Methane	10U	120-12-7	Anthracene	10U	
	120-83-2	2,4-Dichlorophenol	10U	84-74-2	Di-n-Butylphthalate	10U	
	120-82-1	1,2,4-Trichlorobenzene	10U	206-44-0	Fluoranthene	10U	
	91-20-3	Naphthalene	10U	129-00-0	Pyrene	10U	
	87-68-3	Hexachlorobutadiene	10U	85-68-7	Butylbenzylphthalate	10U	
	59-50-7	4-Chloro-3-methylphenol	10U	91-94-1	3,3'-Dichlorobenzidine	20U	
				56-55-3	Benzo(a)Anthracene	10U	
	77-47-4	Hexachlorocyclopentadiene	10U	117-81-7	bis(2-Ethylhexyl)Phthalate	4J	1515
	88-06-2	2,4,6-Trichlorophenol	10U	218-01-9	Chrysene	10U	
				117-84-0	Di-n-Octyl Phthalate	10U	
	91-58-7	2-Chloronaphthalene	10U	205-99-2	Benzo(b)Fluoranthene	10U	
				207-08-9	Benzo(k)Fluoranthene	10U	
	131-11-3	Dimethyl Phthalate	10U	50-32-8	Benzo(a)Pyrene	10U	
	208-96-8	Acenaphthylene	10U	193-39-5	Indeno(1,2,3-cd)Pyrene	10U	
				53-70-3	Dibenzo(a,h)Anthracene	10U	
				191-24-2	Benzo(g,h,i)Perylene	10U	
				92-87-5	Benzidine	80U	

(1) - Cannot be separated from diphenylamine

Date Reported: 9/18/87

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S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
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HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. P3386
Sample I.D. Method Blank 180

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit/Rfit	Scan	Estimated Conc. ug/l
	No semi-volatile compounds found > 10% internal standards.			

Date Reported: 9/18/87

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S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab Number Blank 184
Sample #P3396
Collected By: CL 99
Factor: 250

Scan #	C.A.S. Number		ug/l	C.A.S. Number		ug/l	Scan #
	65-75-9	N-Nitrosodimethylamine	20U	83-32-9	Acenaphthene	20U	
	108-95-2	Phenol	20U	51-28-5	2,4-Dinitrophenol	100U	
	111-44-4	bis(2-Chloroethyl)ether	20U	100-02-7	4-Nitrophenol	100U	
	95-57-8	2-Chloropheonol	20U	121-14-2	2,4-Dinitrotoluene	20U	
	541-73-1	1,3-Dichlorobenzene	20U	606-20-2	2,6-Dinitrotoluene	20U	
	106-46-7	1,4-Dichlorobenzene	20U	84-66-2	Diethylphthalate	20U	
	95-50-1	1,2-Dichlorobenzene	20U	7005-72-3	4-Chlorophenyl-phenylether	20U	
	39638329	bis(2-chloroisopropyl)ether	20U	86-73-7	Fluorene	20U	
	621-64-7	N-Nitroso-di-n-propylamine	20U	534-52-1	4,6-Dinitro-2-Methylphenol	100U	
	67-72-1	Hexachloroethane	20U	86-30-6	N-Nitrososdiphenylamine 1)	20U	
	98-95-3	Nitrobenzene	20U				
	78-59-1	Isophorone	20U	101-55-3	4-Bromophenyl-phenylether	20U	
	88-75-5	2-Nitrophenol	20U	118-74-1	Hexachlorobenzene	20U	
	105-67-9	2,4-Dimethylphenol	20U	87-86-5	Pentachlorophenol	100U	
				85-01-8	Phenanthrene	20U	
	111-91-1	bis(2-Chloroethoxy)Methane	20U	120-12-7	Anthracene	20U	
	120-83-2	2,4-Dichlorophenol	20U	84-74-2	Di-n-Butylphthalate	20U	
	120-82-1	1,2,4-Trichlorobenzene	20U	206-44-0	Fluoranthene	20U	
	91-20-3	Naphthalene	20U	129-00-0	Pyrene	20U	
	87-68-3	Hexachlorobutadiene	20U	85-68-7	Butylbenzylphthalate	20U	
	59-50-7	4-Chloro-3-methylphenol	20U	91-94-1	3,3'-Dichlorobenzidine	40U	
				56-55-3	Benzo(a)Anthracene	20U	
	77-47-4	Hexachlorocyclopentadiene	20U	117-81-7	bis(2-Ethylhexyl)Phthalate	20	1514
	88-06-2	2,4,6-Trichlorophenol	20U	218-01-9	Chrysene	20U	
				117-84-0	Di-n-Octyl Phthalate	20U	
	91-58-7	2-Chloronaphthalene	20U	205-99-2	Benzo(b)Fluoranthene	20U	
				207-08-9	Benzo(k)Fluoranthene	20U	
	131-11-3	Dimethyl Phthalate	20U	50-32-8	Benzo(a)Pyrene	20U	
	208-96-8	Acenaphthylene	20U	193-39-5	Indeno(1,2,3-cd)Pyrene	20U	
				53-70-3	Dibenzo(a,h)Anthracene	20U	
				191-24-2	Benzo(g,h,i)Perylene	20U	
				92-87-5	Benzidine	160U	

(1) - Cannot be separated from diphenylamine

Date Reported: 9/18/87

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S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
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NJ D.E.P.
65 Prospect St.
Trenton, NJ 08618

No. P3396
Sample I.D. Method Blank 184

Tentatively Identified Compounds

C.A.S. Number	Compound Name	% Prob. of Fit	Scan	Estimated Conc. ug/l
74381401	2-Methyl-(1,1-dimethyl-ethyl)-2-methyl-1,3-propanediyl-propanoate	34	939	32J

Date Reported: 9/18/87

S.C. McLendon, P.E.
Laboratory Director

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H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

New Jersey DEP
65 Prospect St.
Trenton, NJ 08628

Lab No. Method Blank
Sample No. Method Blank 180

Concentration: Low Conc. Factor:167

Date Ext. 8/22/87 Date Anal.9/10/87

C.A.S. NUMBER		ug/l
319-84-6	alpha-BHC	0.10U
319-87-7	beta-BHC	0.10U
319-86-8	delta-BHC	0.10U
58-89-8	gamma-BHC (Lindane)	0.10U
76-44-8	Heptachlor	0.10U
309-00-2	Aldrin	0.10U
1024-57-3	Heptachlor Epoxide	0.10U
959-98-8	Endosulfan I	0.10U
60-57-1	Dieldrin	0.20U
72-55-9	4,4'-DDE	0.20U
72-20-8.	Endrin	0.20U
33213-65-9	Endosulfan II	0.20U
72-54-8	4,4'-DDD	0.20U
1031-07-8	Endosulfan Sulfate	0.20U
50-29-3	4,4'-DDT	0.20U
72-43-5	Methoxychlor	1.0U
53494-70-5	Endrin Ketone	0.20U
57-74-9	Chlordane	1.0U
8001-35-2	Toxaphene	2.0U
12674-11-2	Aroclor 1016	1.0U
11104-28-2	Aroclor 1221	1.0U
11141-16-5	Aroclor 1232	1.0U
53469-21-9	Aroclor 1242	1.0U
12672-29-6	Aroclor 1248	1.0U
11097-69-1	Aroclor 1254	2.0U
11096-82-5	Aroclor 1260	2.0U

Vi = Volume of extract injected (uL)
Vs = Volume of water extracted (mL)
Vt = Volume of total extract (mL)
Ws = Weight of sample extracted (g)

Vs = 500 mL Vt = 3 mL Vi = 5 uL Ws = g

Date Reported: 9/30/87

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S.C. McLendon, P.E.
Laboratory Director

H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

New Jersey DEP
65 Prospect St.
Trenton, NJ 08628

Lab No. Method Blank
Sample No. Method Blank 182

Concentration: Low Conc. Factor:167

Date Ext. 8/26/87 Date Anal.9/10/87

C.A.S. NUMBER		ug/l
319-84-6	alpha-BHC	0.10U
319-87-7	beta-BHC	0.10U
319-86-8	delta-BHC	0.10U
58-89-8	gamma-BHC (Lindane)	0.10U
76-44-8	Heptachlor	0.10U
309-00-2	Aldrin	0.10U
1024-57-3	Heptachlor Epoxide	0.10U
959-98-8	Endosulfan I	0.10U
60-57-1	Dieldrin	0.20U
72-55-9	4,4'-DDE	0.20U
72-20-8	Endrin	0.20U
33213-65-9	Endosulfan II	0.20U
72-54-8	4,4'-DDD	0.20U
1031-07-8	Endosulfan Sulfate	0.20U
50-29-3	4,4'-DDT	0.20U
72-43-5	Methoxychlor	1.0U
53494-70-5	Endrin Ketone	0.20U
57-74-9	Chlordane	1.0U
8001-35-2	Toxaphene	2.0U
12674-11-2	Aroclor 1016	1.0U
11104-28-2	Aroclor 1221	1.0U
11141-16-5	Aroclor 1232	1.0U
53469-21-9	Aroclor 1242	1.0U
12672-29-6	Aroclor 1248	1.0U
11097-69-1	Aroclor 1254	2.0U
11096-82-5	Aroclor 1260	2.0U

Vi = Volume of extract injected (uL)
Vs = Volume of water extracted (mL)
Vt = Volume of total extract (mL)
Ws = Weight of sample extracted (g)

Vs = 500 mL Vt = 3 mL Vi = 5 uL Ws = g

Date Reported: 9/30/87

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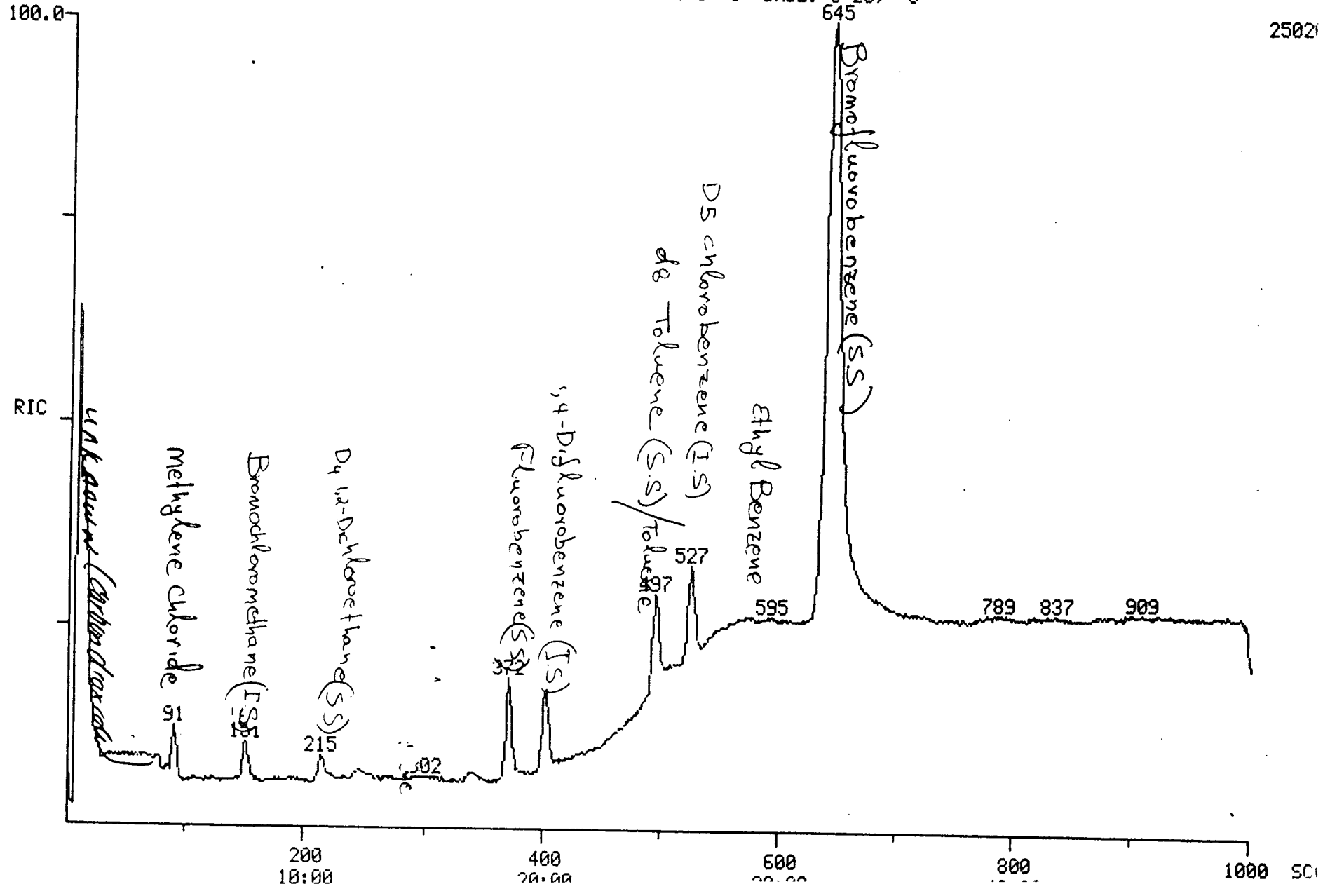
S.C. McLendon, P.E.
Laboratory Director

RIC
08/26/87 18:24:00
SAMPLE: INST.BLANK
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU7414 #1
CALI: PU7414 #2

SCANS 1 TO 1000



TCA FINISHED, 7 FOUND
FINISHED AT: 9/03/87 17:26:09

839

QUANTITATION REPORT FILE: PU7414

DATA: PU7414.TI
08/26/87 18:24:00
SAMPLE: INST. BLANK
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

No	Name
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	151	7:33	1	1.000	A BV	95574.	30.000	UG/L	1.65
2	65	215	10:45	1	1.424	A BB	170651.	39.151	UG/L	2.16
3	50	25	1:15	1	0.166	A BB	60128.	4.771	UG/L	0.26
4	NOT FOUND									
5	62	51	2:33	1	0.338	A*BB	4693.	1.446	UG/L	0.08
6	64	60	3:00	1	0.397	A BB	2487.	0.566	UG/L	0.03
7	84	90	4:30	1	0.596	A BB	76056.	12.647	UG/L	0.70
~~8~~	~~43~~	~~97~~	~~4:51~~	~~1~~	~~0.642~~	~~A*VV~~	~~58947.~~	~~6.378~~	~~UG/L~~	~~0.35~~
~~9~~	~~76~~	~~84~~	~~4:12~~	~~1~~	~~0.556~~	~~A VB~~	~~3686.~~	~~3.638~~	~~UG/L~~	~~0.20~~
10	96	135	6:45	1	0.894	A*BB	3191.	0.499	UG/L	0.03
11	63	172	8:36	1	1.139	A*VB	7904.	0.774	UG/L	0.04
12	96	190	9:30	1	1.258	A*VB	3553.	0.568	UG/L	0.03
13	83	202	10:06	1	1.338	A VB	2774.	0.266	UG/L	0.01
14	62	216	10:48	1	1.430	A*BB	2870.	0.257	UG/L	0.01
15	101	135	6:45	1	0.894	A*VV	4225.	0.382	UG/L	0.02
~~16~~	~~85~~	~~48~~	~~2:24~~	~~1~~	~~0.318~~	~~A*BB~~	~~1751.~~	~~12.373~~	~~UG/L~~	~~0.68~~
~~17~~	~~56~~	~~148~~	~~7:24~~	~~1~~	~~0.980~~	~~A*BB~~	~~7580.~~	~~372.184~~	~~UG/L~~	~~20.52~~
~~18~~	~~53~~	~~147~~	~~7:21~~	~~1~~	~~0.974~~	~~A*VV~~	~~5771.~~	~~343.024~~	~~UG/L~~	~~18.91~~
19	114	404	20:12	19	1.000	A BB	720745.	30.000	UG/L	1.65

840

~~20~~	~~43~~	~~163~~	~~8:09~~	~~19~~	~~0.403~~	~~A*VV~~	~~74400.~~	~~396.093 UG/L~~	~~21.84~~	
21	97	229	11:27	19	0.567	A VB	3200.	0.701 UG/L	0.04	
22	117	235	11:45	19	0.582	A BB	2189.	0.938 UG/L	0.05	
~~23~~	~~NOT FOUND~~									
24	83	277	~~13:51~~	~~19~~	~~0.686~~	~~A*BB~~	~~8029.~~	~~1.197 UG/L~~	~~0.07~~	MIS IDENT
25	63	290	14:30	19	0.718	A*VV	5291.	0.454 UG/L	0.03	C-Chlorane
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	97	297	14:51	19	0.735	A VV	2735.	0.309 UG/L	0.02	
30	78	297	14:51	19	0.735	A BB	2892.	0.102 UG/L	0.01	
31	NOT FOUND									
32	63	343	17:09	19	0.849	A VB	1349.	0.083 UG/L	0.00	
33	NOT FOUND									
34	117	527	26:21	34	1.000	A BV	637225.	30.000 UG/L	1.65	
~~35~~	~~NOT FOUND~~									
~~36~~	~~NOT FOUND~~									
37	164	467	23:21	34	0.886	A*BB	2188.	0.196 UG/L	0.01	
38	83	461	23:03	34	0.875	A BB	1796.	0.127 UG/L	0.01	
39	92	503	25:09	34	0.954	A BV	31120.	1.598 UG/L	0.09	
40	112	529	26:27	34	1.004	A VB	26030.	0.914 UG/L	0.05	
41	~~106~~	~~580~~	~~29:00~~	~~34~~	~~1.101~~	~~A*VV~~	~~24661.~~	~~1.738 UG/L~~	~~0.10~~	MIS. IDENT
~~42~~	~~104~~	~~598~~	~~29:45~~	~~34~~	~~1.129~~	~~A*VV~~	~~10071.~~	~~27.309 UG/L~~	~~1.51~~	
~~43~~	~~106~~	~~620~~	~~31:00~~	~~34~~	~~1.176~~	~~A*VB~~	~~12555.~~	~~154.024 UG/L~~	~~8.49~~	
~~44~~	~~106~~	~~620~~	~~31:00~~	~~34~~	~~1.176~~	~~A*VB~~	~~12555.~~	~~308.047 UG/L~~	~~16.99~~	
45	146	798	39:54	34	1.514	A*BV	12199.	0.604 UG/L	0.03	
46	146	831	41:33	34	1.577	A BB	12539.	0.569 UG/L	0.03	
47	146	838	41:54	34	1.590	A*BB	9728.	0.392 UG/L	0.02	
48	96	372	18:36	34	0.706	A BB	887259.	31.094 UG/L	1.71	
49	95	640	32:00	34	1.214	A BB	499190.	23.677 UG/L	1.31	

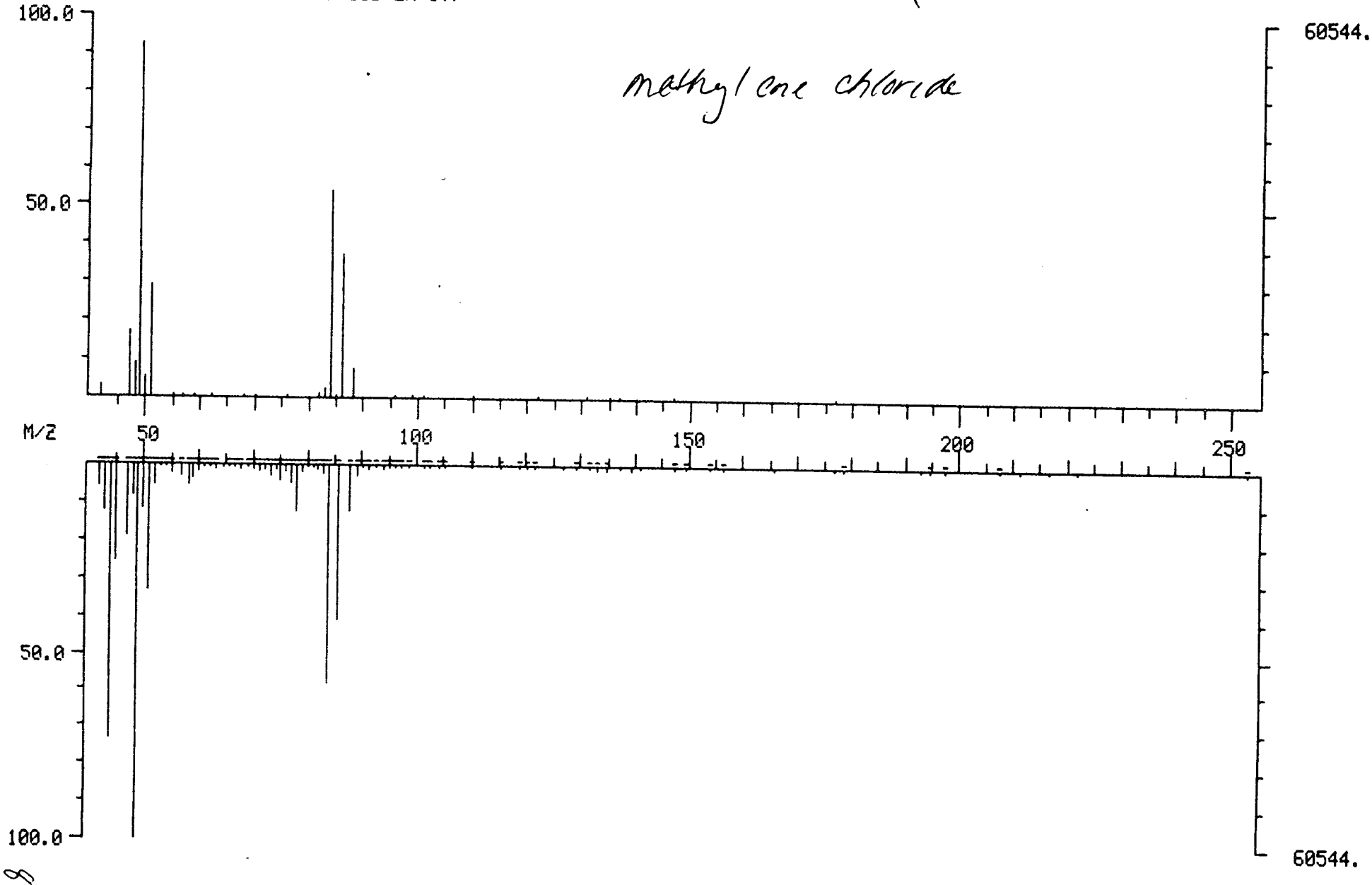
No N Targeted Compounds

	Scan #	ref pk	area	Amt (ug/L)
1.	8	1	12229300	520 J
2.	645	34	20786100	300 J

DUAL MASS SPECTRUM
08/26/87 18:24:00 + 4:30
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7414 #90
CALI: PU7414 #2

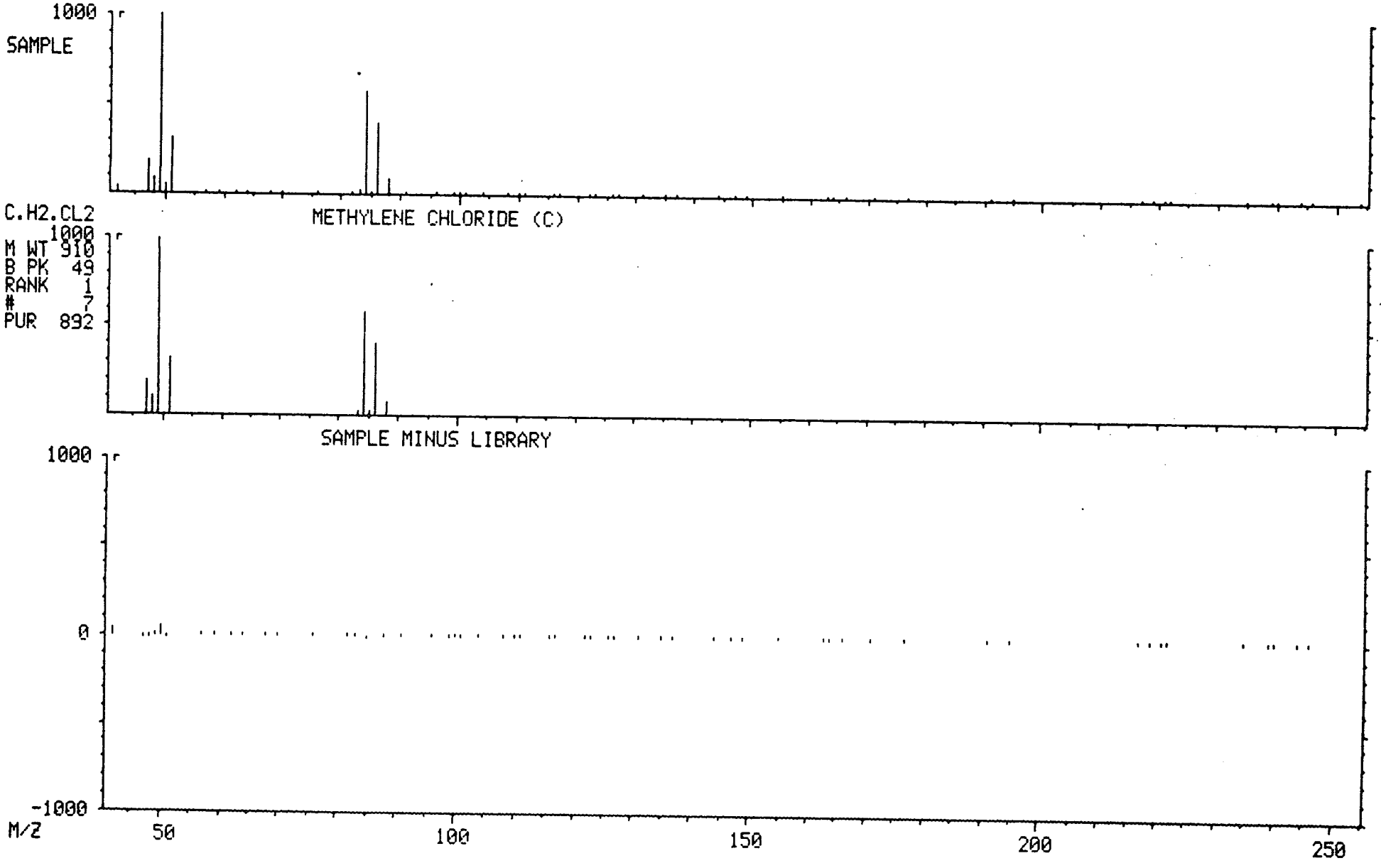
BASE M/Z: 49/ 49
RIC: 163327./ 299519.



LIBRARY SEARCH
08/26/87 18:24:00 + 4:30
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7414 # 90
CALI: PU7414 # 2

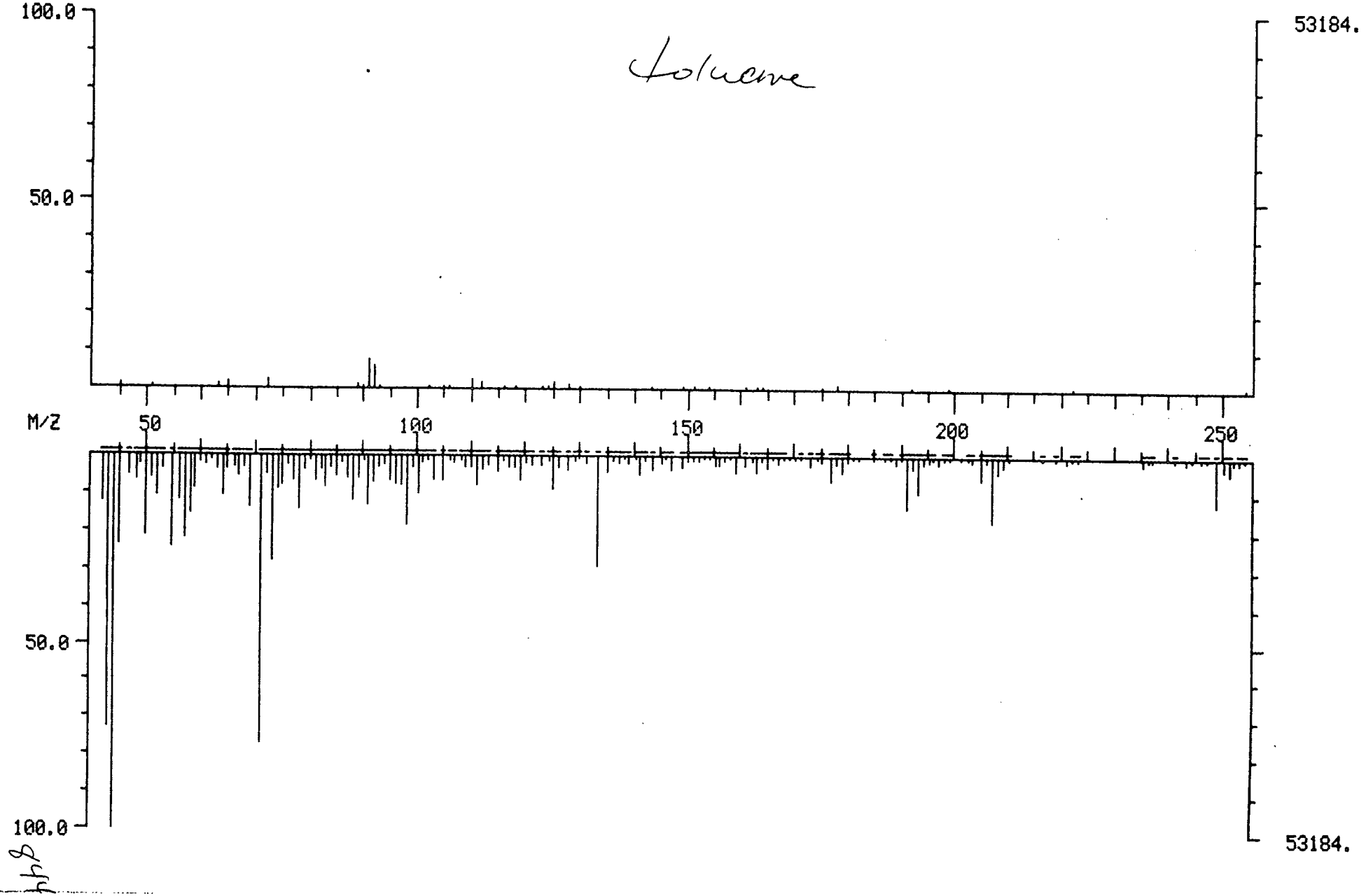
BASE M/Z: 49
RIC: 163071.



DUAL MASS SPECTRUM
08/26/87 18:24:00 + 25:09
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7414 #503
CALI: PU7414 #2

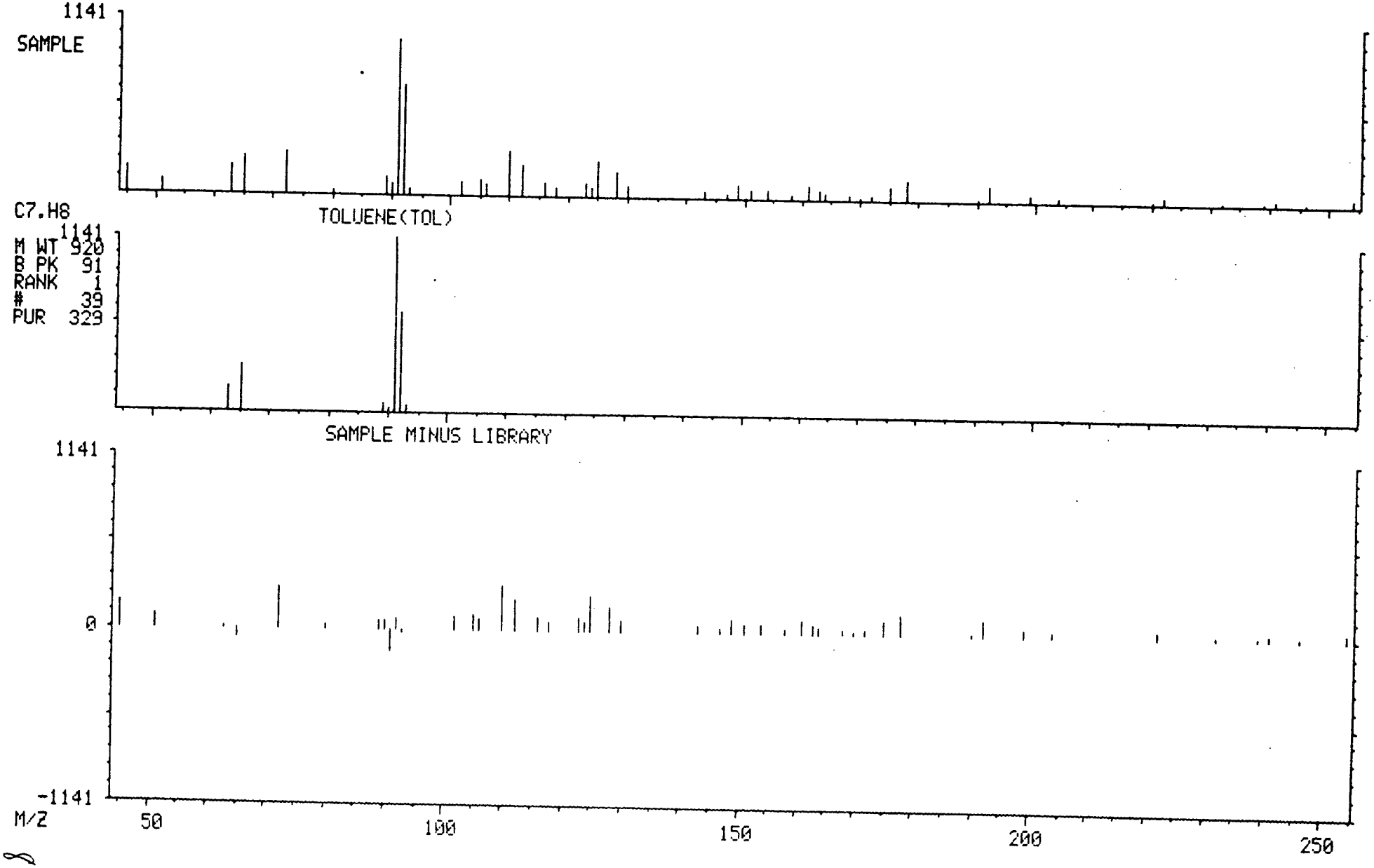
BASE M/Z: 91/ 44
RIC: 23551./ 519167.



LIBRARY SEARCH
08/26/87 18:24:00 + 25:03
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7414 # 503
CALI: PU7414 # 2

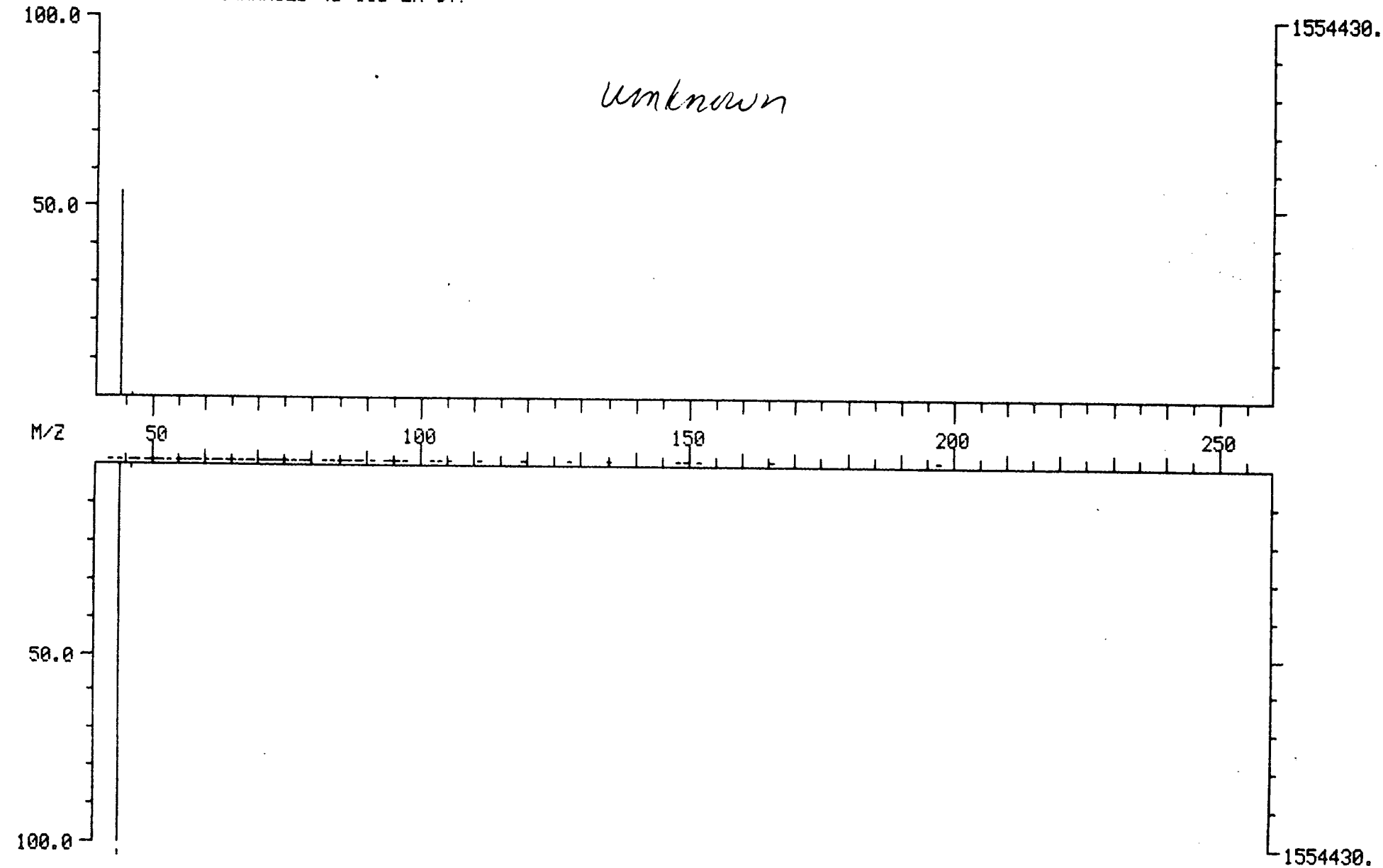
BASE M/Z: 91
RIC: 23423.



DUAL MASS SPECTRUM
08/26/87 18:24:00 + 0:24
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7414 #8
CALI: PU7414 #2

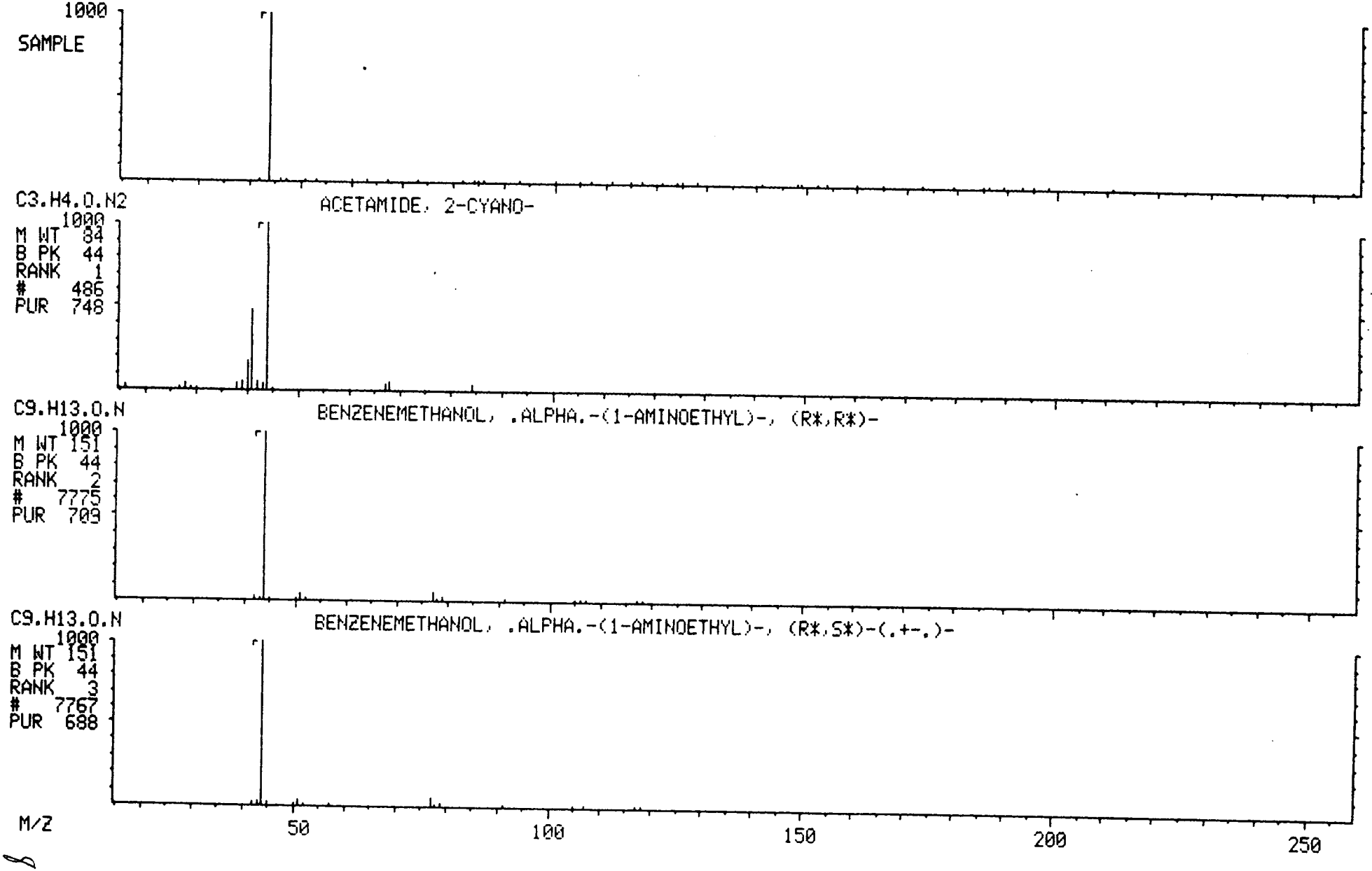
BASE M/Z: 44/ 44
RIC: 846847./ 1589240.



LIBRARY SEARCH
08/26/87 18:24:00 + 0:24
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7414 # 8
CALI: PU7414 # 2

BASE M/Z: 44
RIC: 846847.

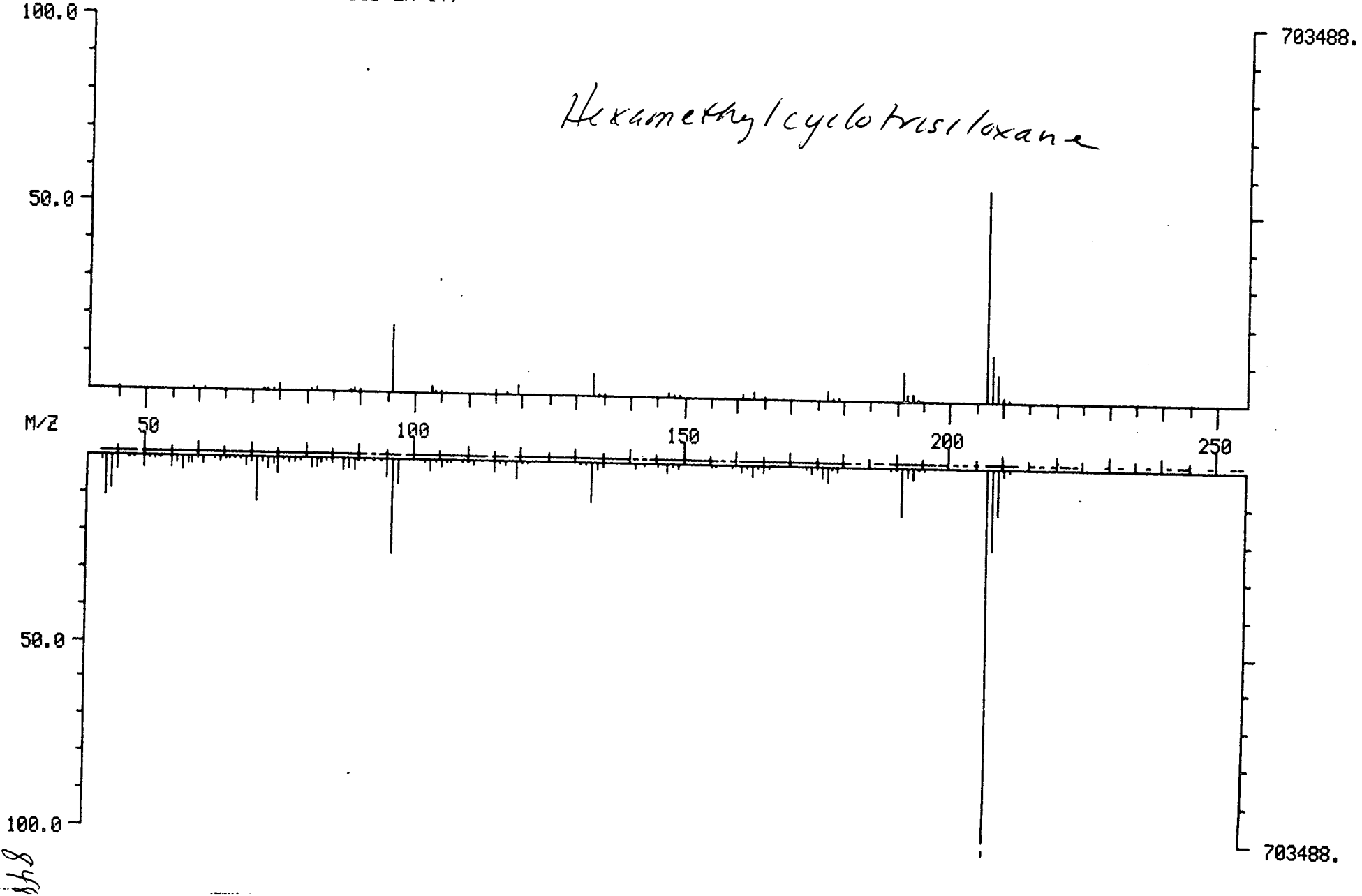


DUAL MASS SPECTRUM
08/26/87 18:24:00 + 32:15
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7414 #645
CALI: PU7414 #2

BASE M/Z: 207/ 207
RIC: 1006590./ 2494460.

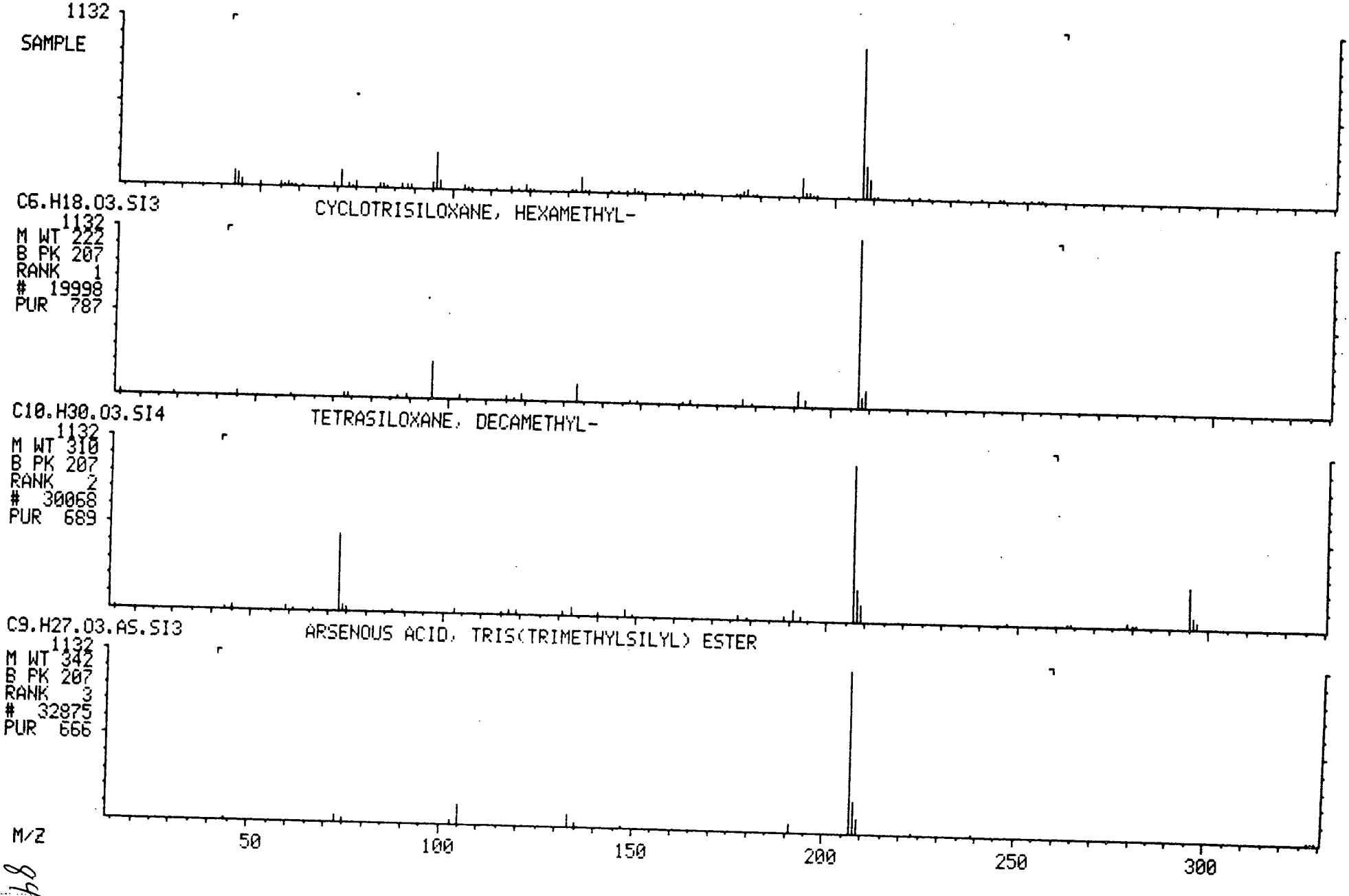
Hexamethylcyclotrisiloxane



LIBRARY SEARCH
08/26/87 18:24:00 + 32:15
SAMPLE: INST.BLANK
CONDS.:

DATA: PU7414 # 645
CALI: PU7414 # 2

BASE M/Z: 207
RIC: 2297850.



QUANTITATION REPORT FILE: PU7432

DATA: PU7432.TI
08/28/87 10:47:00
SAMPLE: INST. BLANK
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	128	154	7:42	1	1.000	A BB	54175.	30.000 UG/L	2.64
2	65	218	10:54	1	1.416	A BB	98228.	27.051 UG/L	2.38
3	50	29	1:27	1	0.188	A BB	80432.	13.196 UG/L	1.16
4	94	43	2:09	1	0.279	A*BV	1540.	2.816 UG/L	0.25
5	62	52	2:36	1	0.338	A BB	1767.	0.665 UG/L	0.06
6	64	67	3:21	1	0.435	A BV	2100.	0.765 UG/L	0.07
7	84	96	4:48	1	0.623	A BB	20524.	4.309 UG/L	0.38
~~8~~	~~43~~	~~104~~	~~5:12~~	~~1~~	~~0.675~~	~~A*BB~~	~~18838.~~	~~3.596 UG/L~~	~~0.32~~
~~9~~	~~76~~	~~91~~	~~4:33~~	~~1~~	~~0.591~~	~~A*VB~~	~~972.~~	~~24.027 UG/L~~	~~2.12~~
10	96	149	7:27	1	0.968	A BB	4005.	~~1.055 UG/L~~	~~0.09~~
11	63	173	8:39	1	1.123	A VV	6993.	~~1.471 UG/L~~	~~0.13~~
12	96	190	9:30	1	1.234	A*VV	1913.	~~0.799~~ UG/L	0.07
13	83	200	10:00	1	1.299	A BV	5353.	0.756 UG/L	0.07
14	62	220	11:00	1	1.429	A BB	2172.	0.283 UG/L	0.02
15	101	135	6:45	1	0.877	A BB	3221.	0.746 UG/L	0.07
~~16~~	~~85~~	~~51~~	~~2:33~~	~~1~~	~~0.331~~	~~A*VV~~	~~1132.~~	~~18.947 UG/L~~	~~1.67~~
~~17~~	~~56~~	~~153~~	~~7:39~~	~~1~~	~~0.994~~	~~A*VB~~	~~3561.~~	~~364.249 UG/L~~	~~32.08~~
~~18~~	~~53~~	~~154~~	~~7:42~~	~~1~~	~~1.000~~	~~A*VB~~	~~1578.~~	~~363.360 UG/L~~	~~32.00~~
19	114	407	20:21	19	1.000	A BB	228957.	30.000 UG/L	2.64

MIS IDENT

85

~~20~~	~~43~~	~~180~~	~~9:00~~	~~19~~	~~0.442~~	~~A BB~~	~~2942.~~	~~3.293 UG/L~~	~~0.29~~	
21	NOT	FOUND								
22	117	246	12:18	19	0.604	A*BV	893.	1.109 UG/L	0.10	
~~23~~	~~NOT~~	~~FOUND~~								
24	83	271	13:33	19	0.666	A BB	2604.	~~0.791 UG/L~~	~~0.07~~	
25	63	309	15:27	19	0.759	A BB	3647.	~~2.070 UG/L~~	~~0.18~~	
26	75	314	15:42	19	0.771	A*BV	3129.	~~1.584 UG/L~~	~~0.14~~	Mas >DENT
27	130	330	16:30	19	0.811	A VB	3799.	~~1.043 UG/L~~	~~0.09~~	
28	~~129~~	~~345~~	~~17:15~~	~~19~~	~~0.848~~	~~A*BV~~	2886.	~~0.924 UG/L~~	~~0.08~~	
29	97	346	17:18	19	0.850	A BB	1158.	0.339 UG/L	0.03	
30	78	343	17:09	19	0.843	A BB	23254.	2.121 UG/L	0.19	EJ
31	75	350	17:30	19	0.860	A*BB	1120.	0.409 UG/L	0.04	
32	63	374	18:42	19	0.919	A BV	17593.	~~2.002 UG/L~~	~~0.18~~	MASIDENT
33	173	404	20:12	19	0.993	A BV	1715.	0.969 UG/L	0.09	
34	117	530	26:30	34	1.000	A BB	174335.	30.000 UG/L	2.64	
~~35~~	~~43~~	~~351~~	~~17:33~~	~~34~~	~~0.662~~	~~A*BB~~	~~8488.~~	~~107.455 UG/L~~	~~9.46~~	
~~36~~	~~43~~	~~364~~	~~18:12~~	~~34~~	~~0.687~~	~~A*BB~~	~~7616.~~	~~25.777 UG/L~~	~~2.27~~	
37	164	453	22:39	34	0.855	A*BB	1455.	0.560 UG/L	0.05	
38	83	452	22:36	34	0.853	A*VV	3119.	0.586 UG/L	0.05	
39	NOT	FOUND								
40	112	507	25:21	34	0.957	A*VB	1688.	0.236 UG/L	0.02	
41	106	558	27:54	34	1.053	A*VB	1468.	0.421 UG/L	0.04	
~~42~~	~~104~~	~~613~~	~~30:39~~	~~34~~	~~1.157~~	~~A BB~~	~~1617.~~	~~25.367 UG/L~~	~~2.23~~	
~~43~~	~~NOT~~	~~FOUND~~								
~~44~~	~~NOT~~	~~FOUND~~								
45	146	753	37:39	34	1.421	A*BV	1297.	0.263 UG/L	0.02	
46	146	786	39:18	34	1.483	A*BB	1282.	0.276 UG/L	0.02	
47	146	786	39:18	34	1.483	A BB	900.	0.160 UG/L	0.01	
48	96	375	18:45	34	0.708	A BB	353376.	33.221 UG/L	2.93	
49	95	644	32:12	34	1.215	A BV	164462.	27.464 UG/L	2.42	

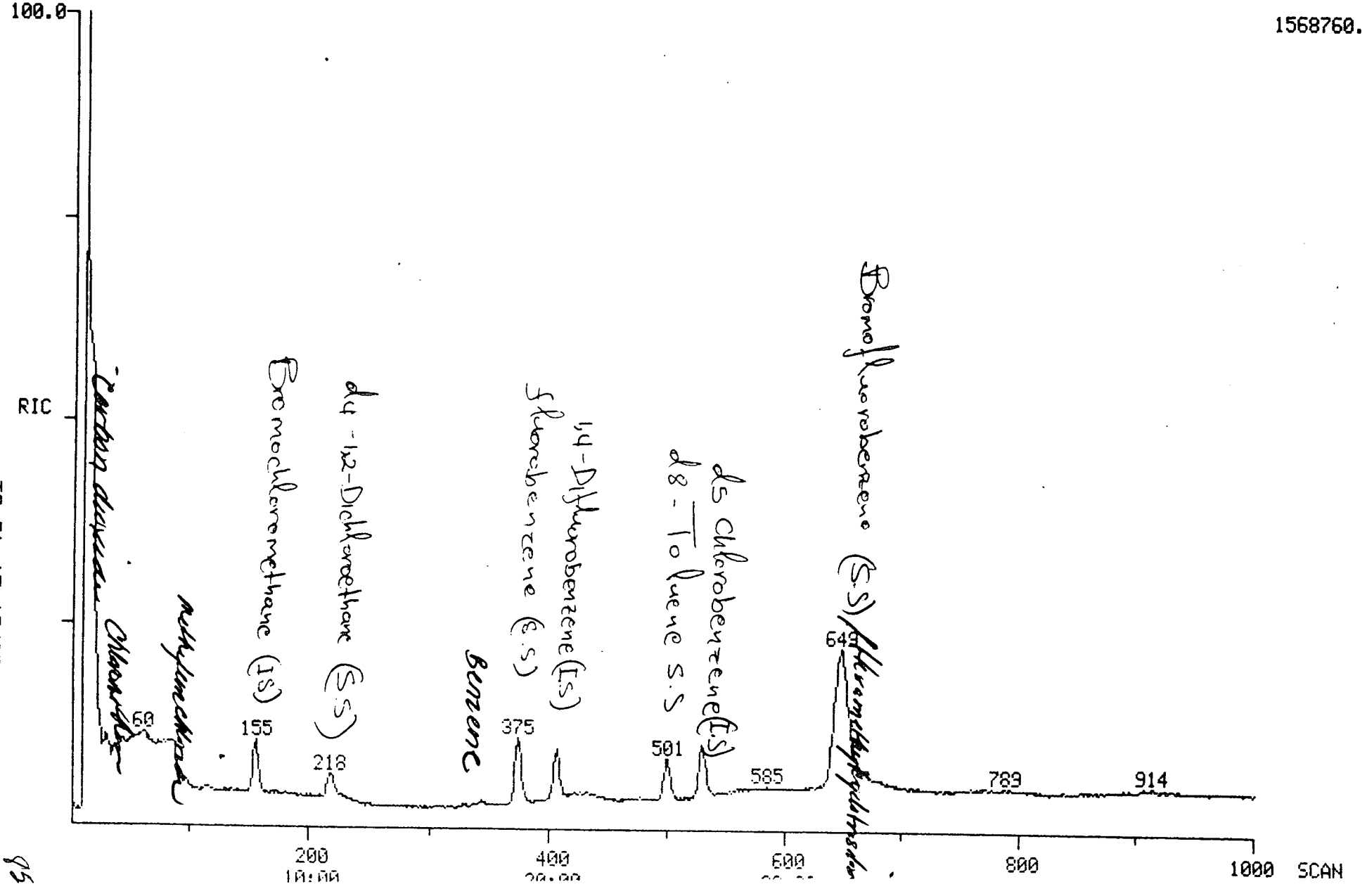
Non targeted Compounds

	scan #	ref pt	area	amt (ug/l)
1	11	1	1015850	540J
2.	949	34	3110910	180J

RIC
08/28/87 10:47:00
SAMPLE: INST.BLANK
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU7432 #1
CALI: PU7432 #2

SCANS 1 TO 1000

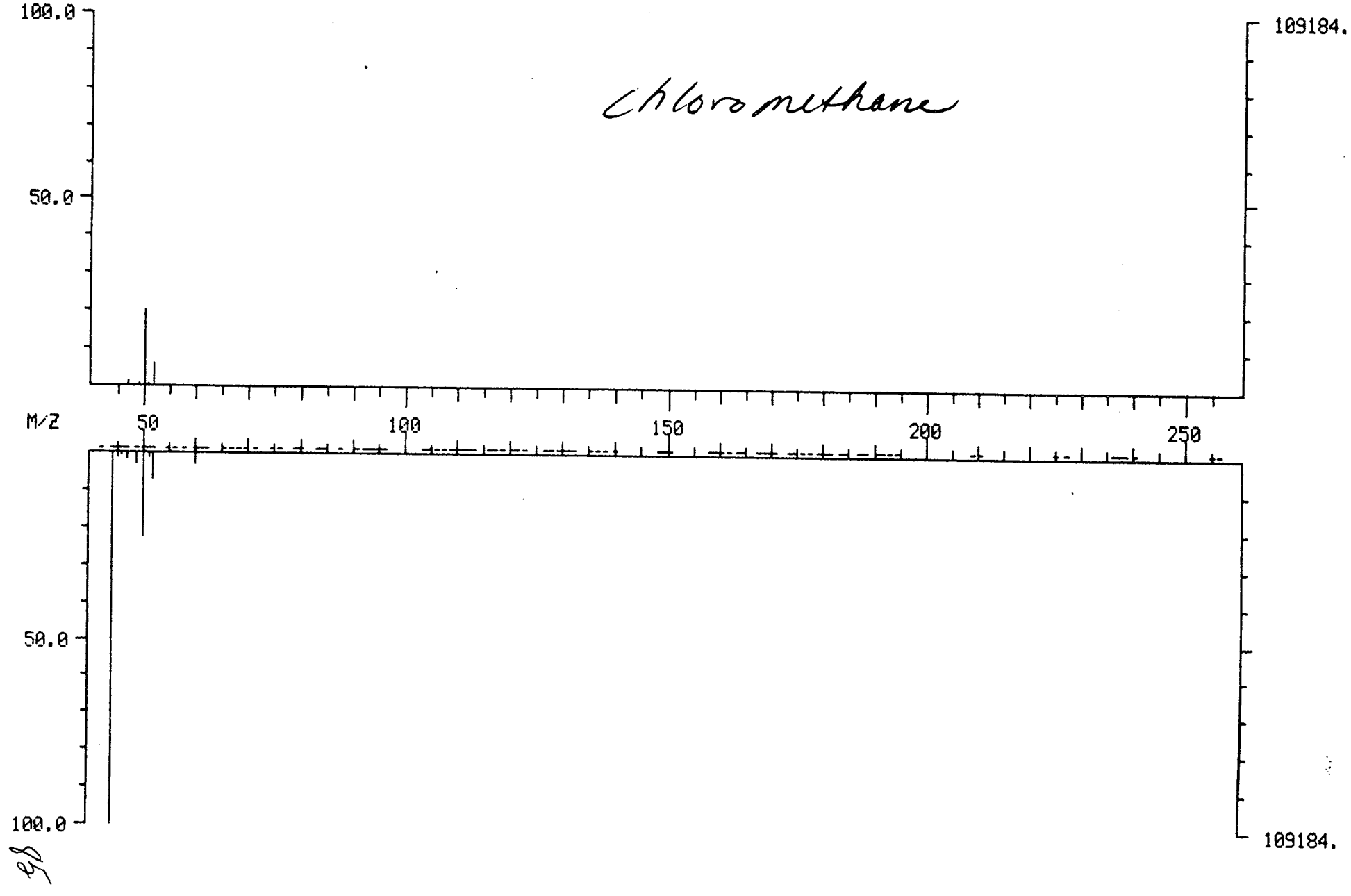


TCA FINISHED, 11 FOUND
FINISHED AT: 9/10/87 17:46:31

DUAL MASS SPECTRUM
08/28/87 10:47:00 + 1:27
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7432 #29
CALI: PU7432 #2

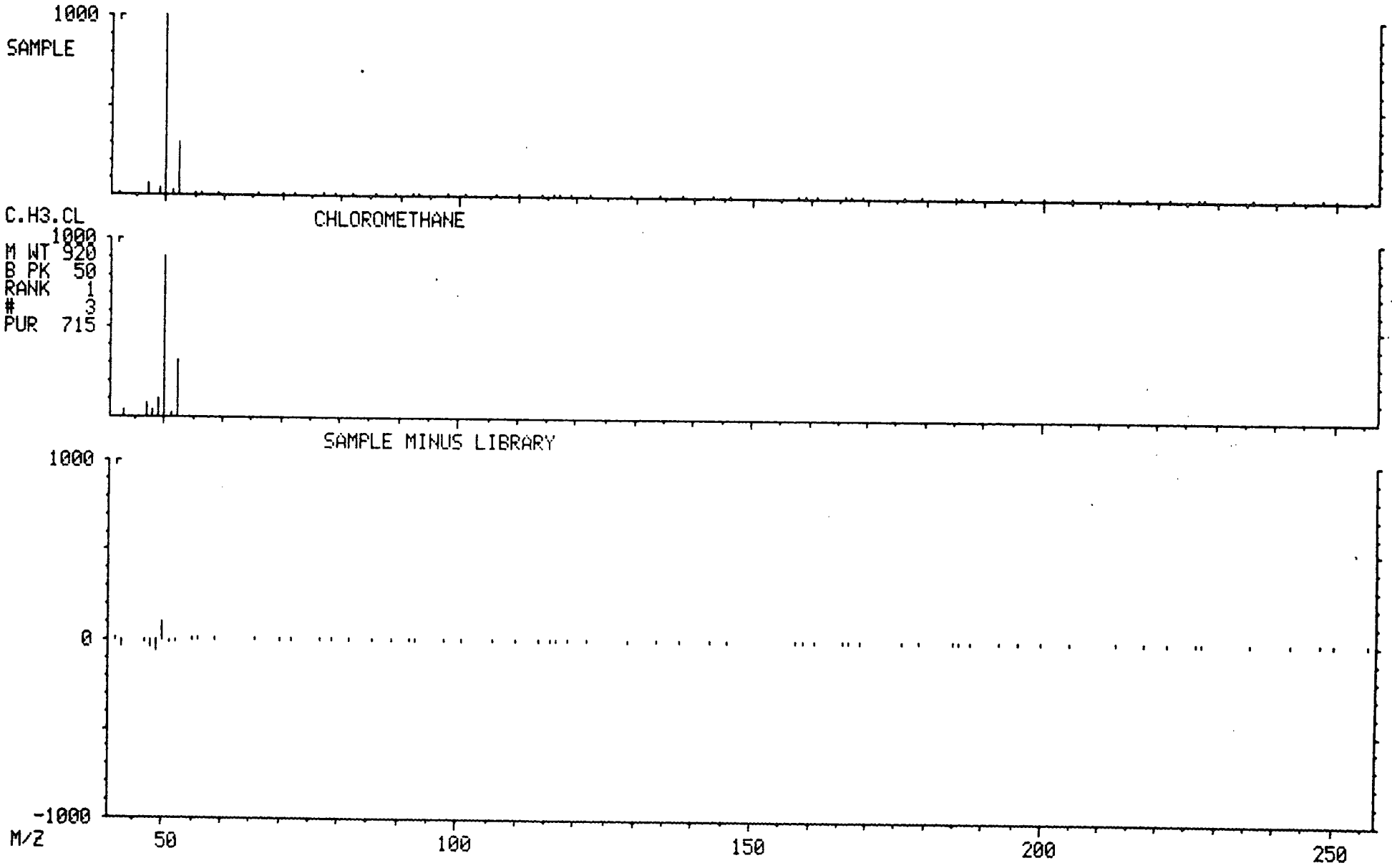
BASE M/Z: 50/ 44
RIC: 35007./ 176895.



LIBRARY SEARCH
08/28/87 10:47:00 + 1:27
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7432 # 29
CALI: PU7432 # 2

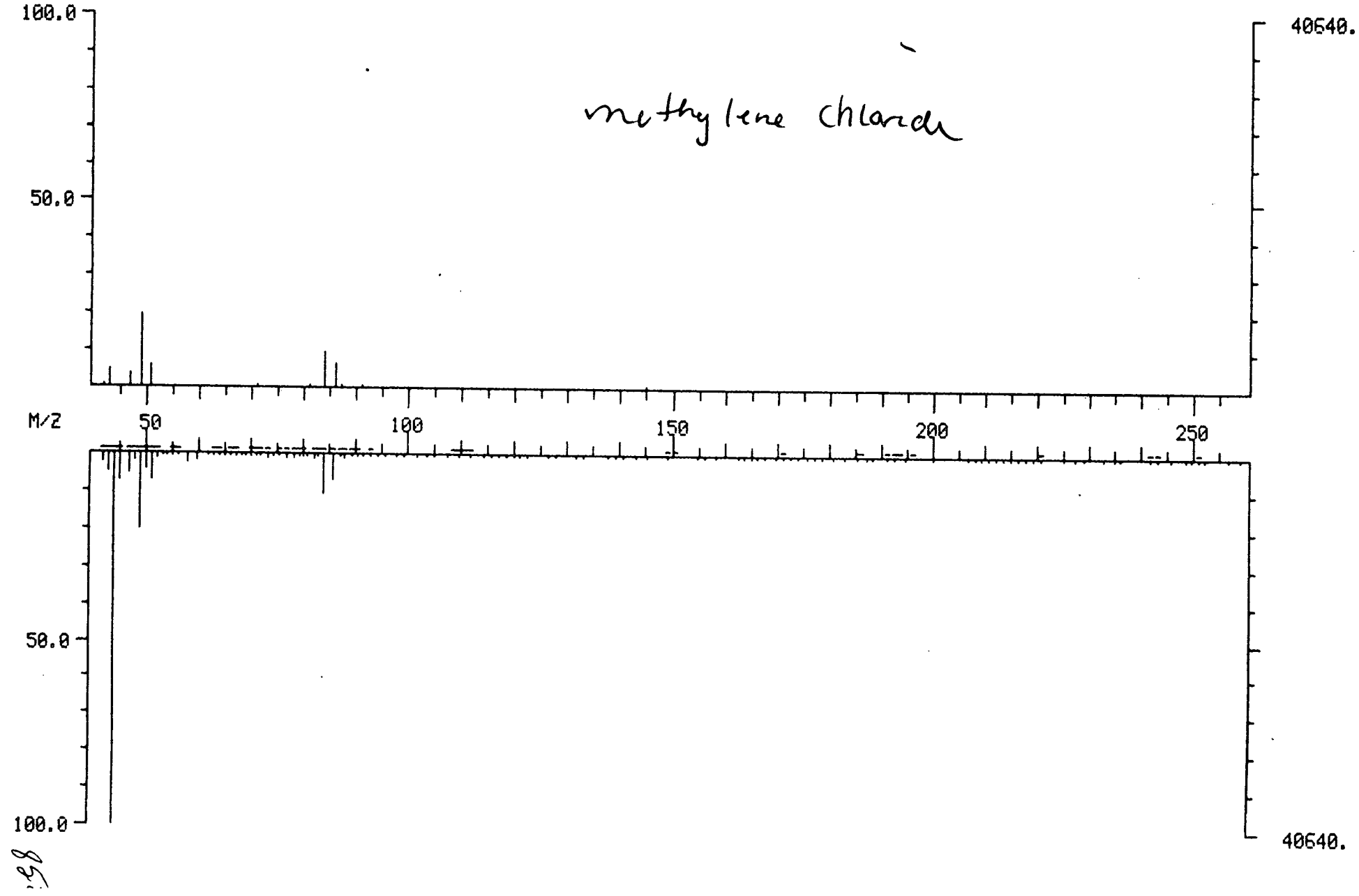
BASE M/Z: 50
RIC: 35007.



DUAL MASS SPECTRUM
08/28/87 10:47:00 + 4:48
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7432 #96
CALI: PU7432 #2

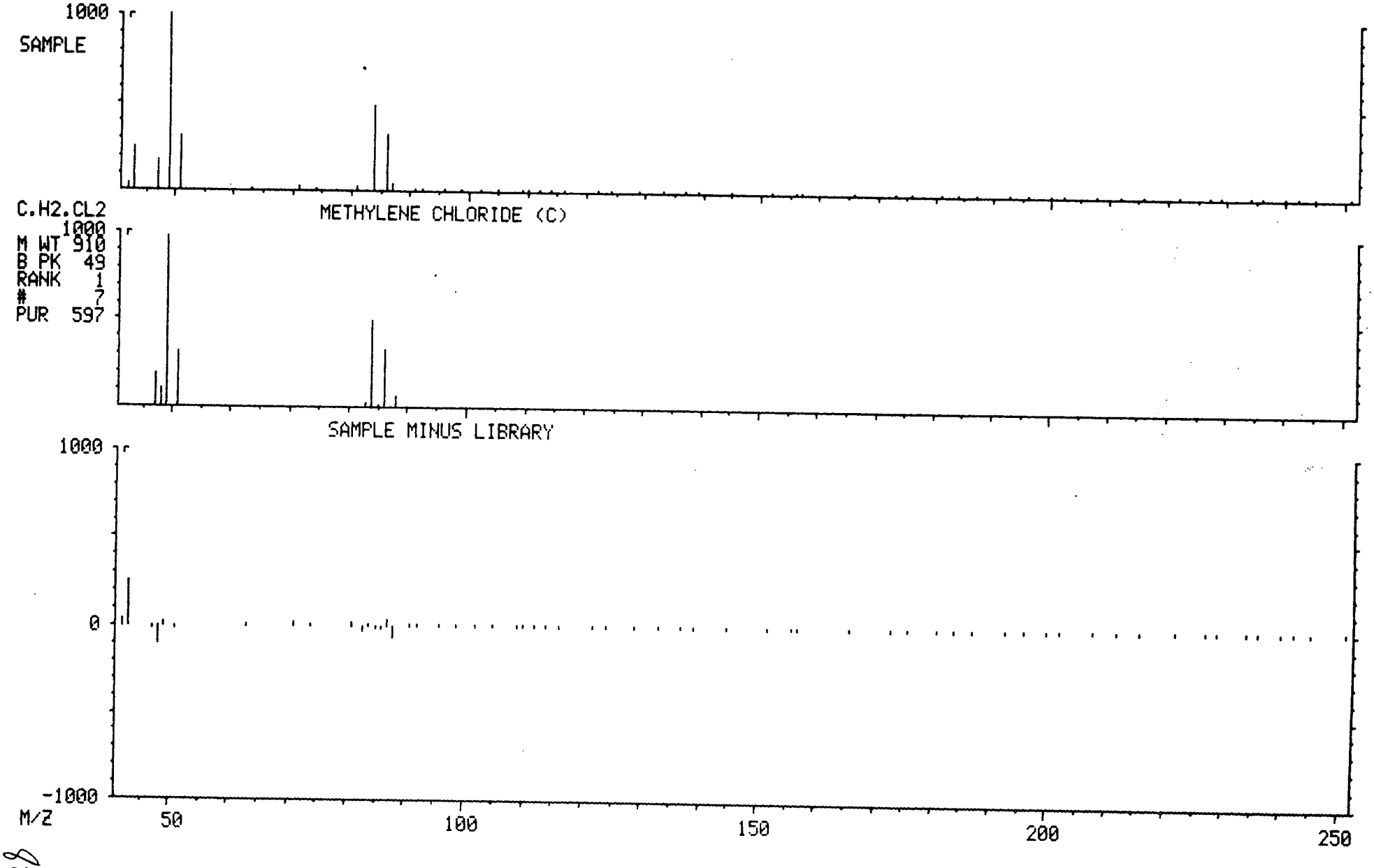
BASE M/Z: 49/ 44
RIC: 24063./ 95743.



LIBRARY SEARCH
08/28/87 10:47:00 + 4:48
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7432 # 96
CALI: PU7432 # 2

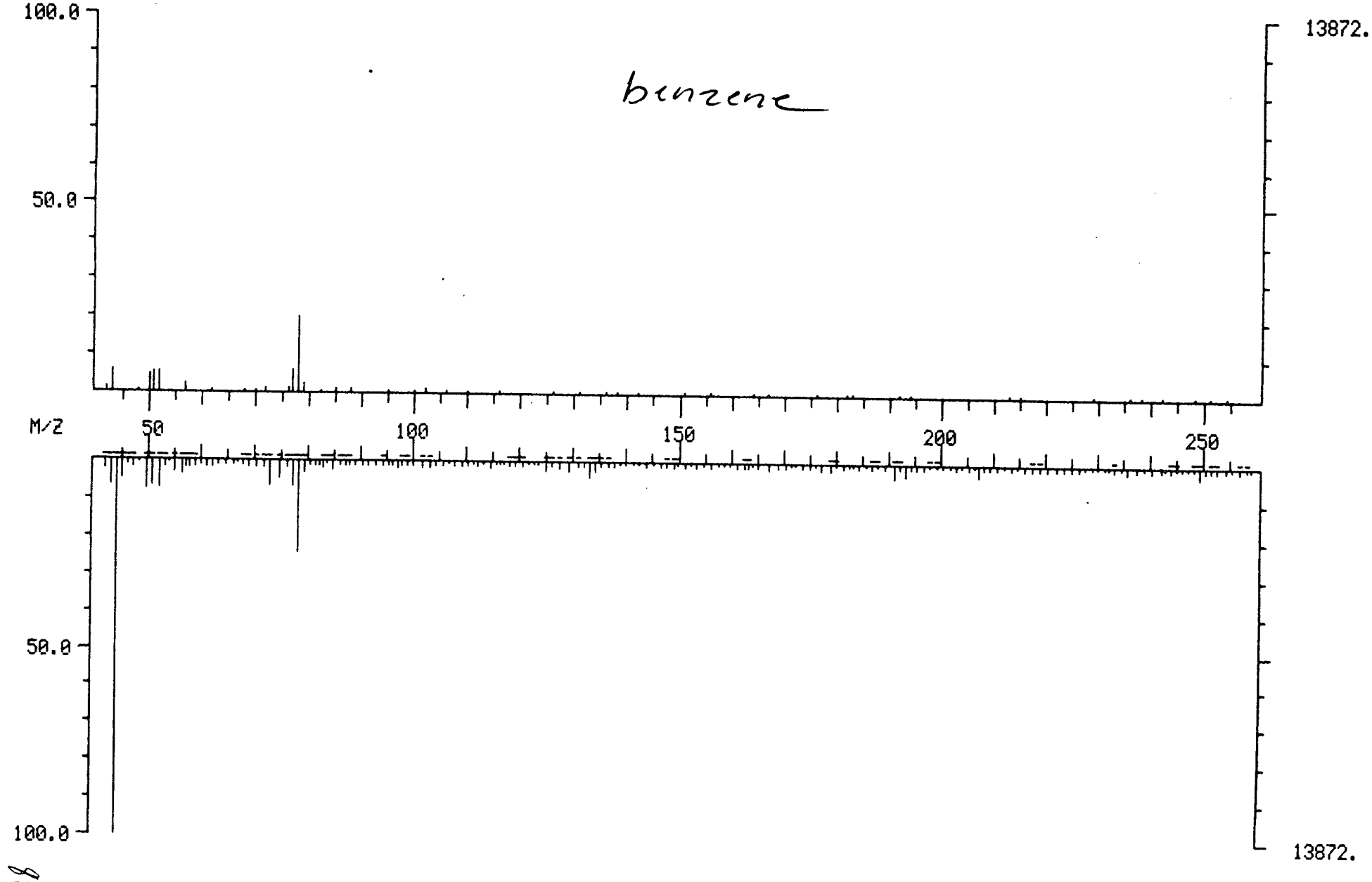
BASE M/Z: 49
RIC: 24031.



DUAL MASS SPECTRUM
08/28/87 10:47:00 + 17:09
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7432 #343
CALI: PU7432 #2

BASE M/Z: 78/ 44
RIC: 11103./ 51775.

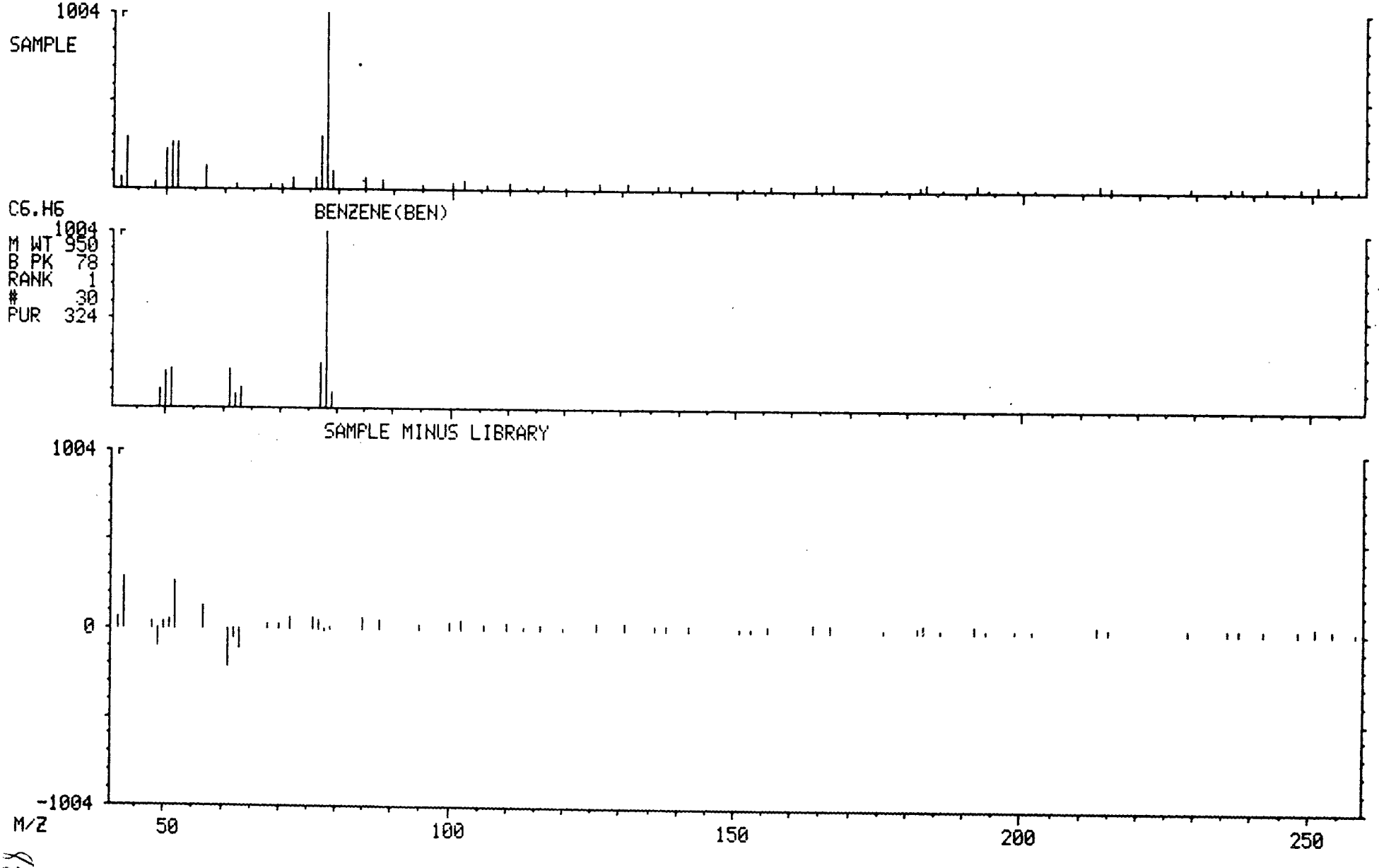


98

LIBRARY SEARCH
08/28/87 10:47:00 + 17:09
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7432 # 343
CALI: PU7432 # 2

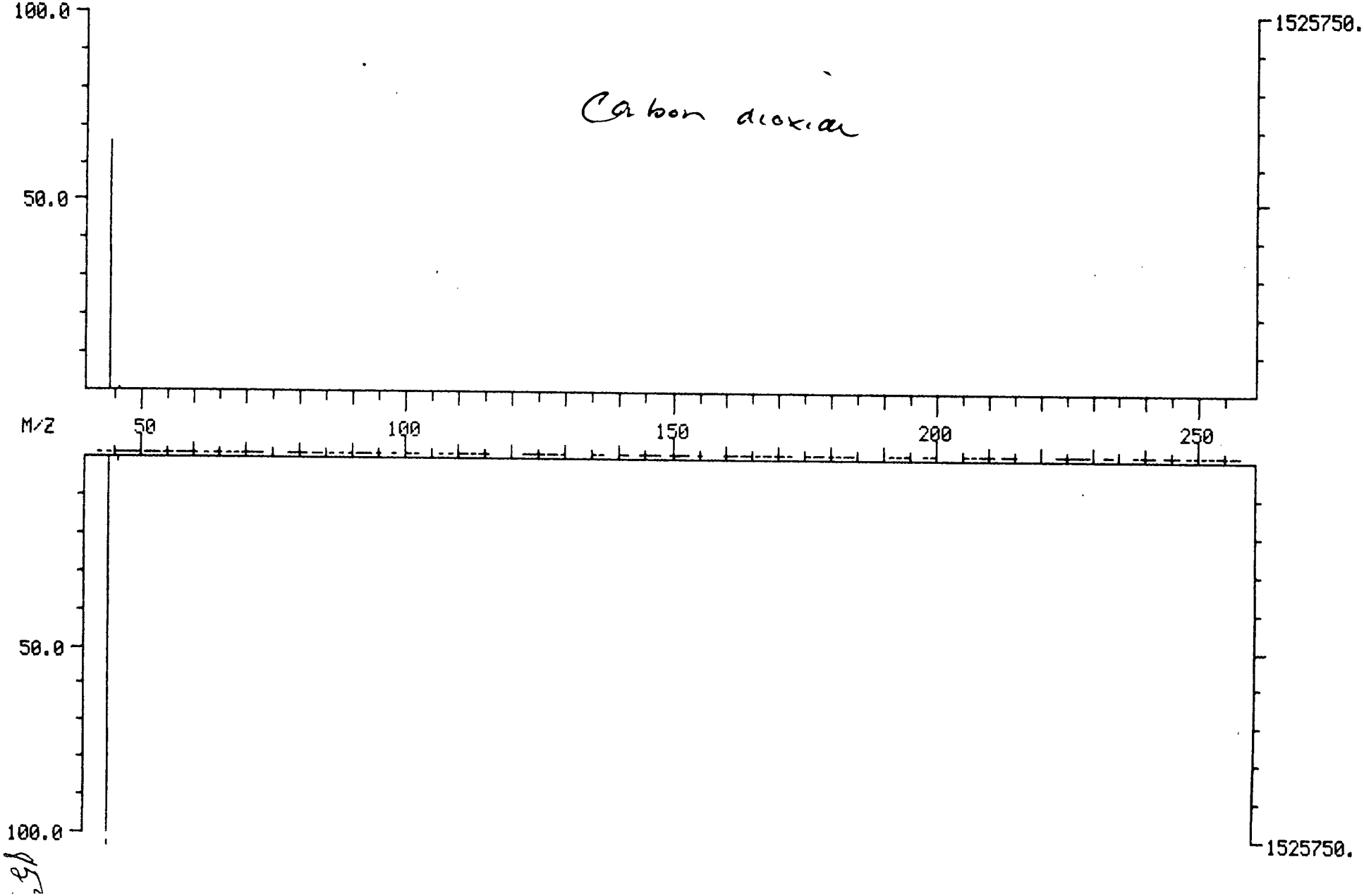
BASE M/Z: 78
RIC: 11007.



DUAL MASS SPECTRUM
08/28/87 10:47:00 + 0:33
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7432 #11
CALI: PU7432 #2

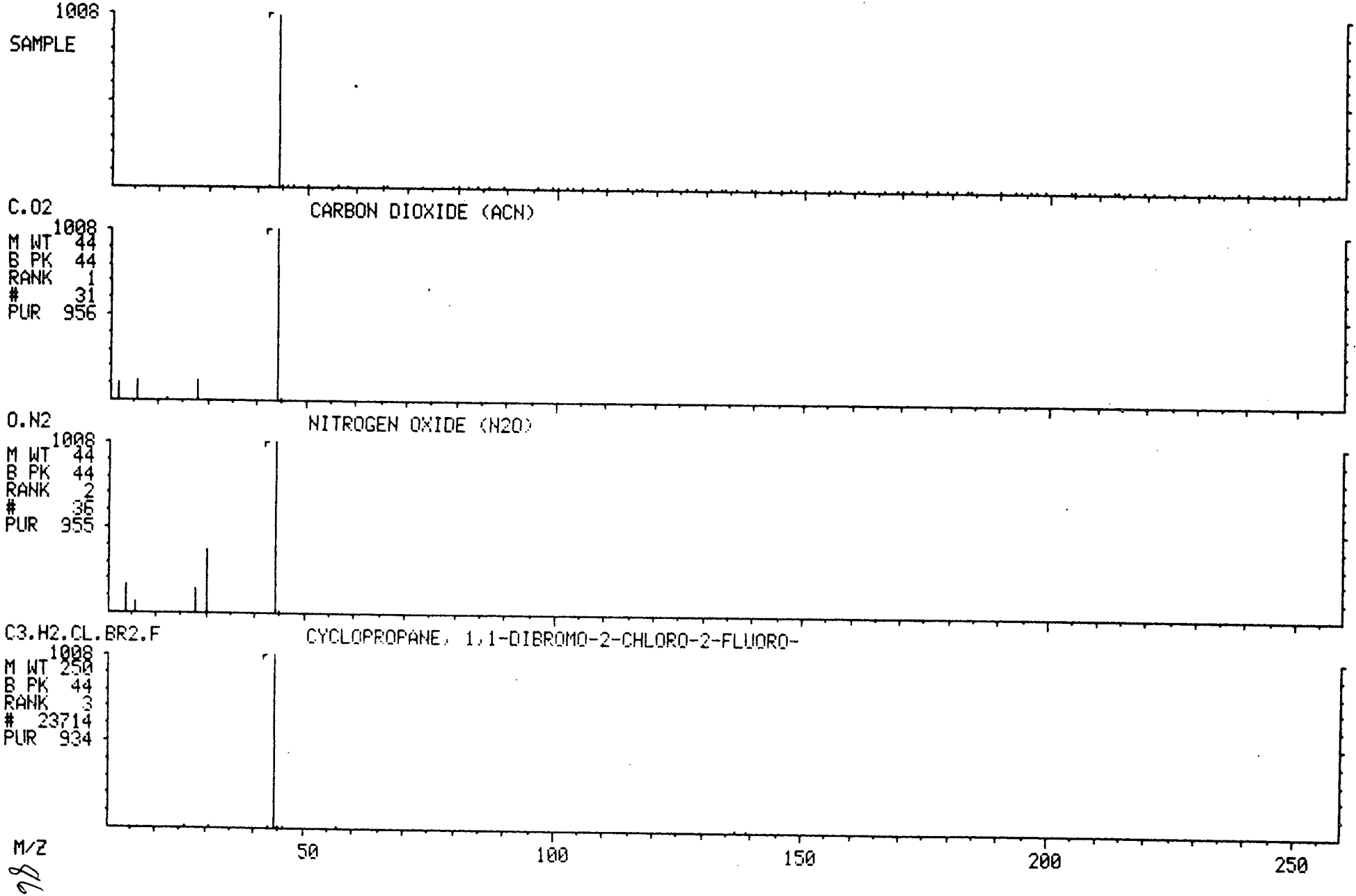
BASE M/Z: 44/ 44
RIC: 1016830./ 1540090.



LIBRARY SEARCH
08/28/87 10:47:00 + 0:36
SAMPLE: INST.BLANK
CONDS.:

DATA: PU7432 # 12
CALI: PU7432 # 2

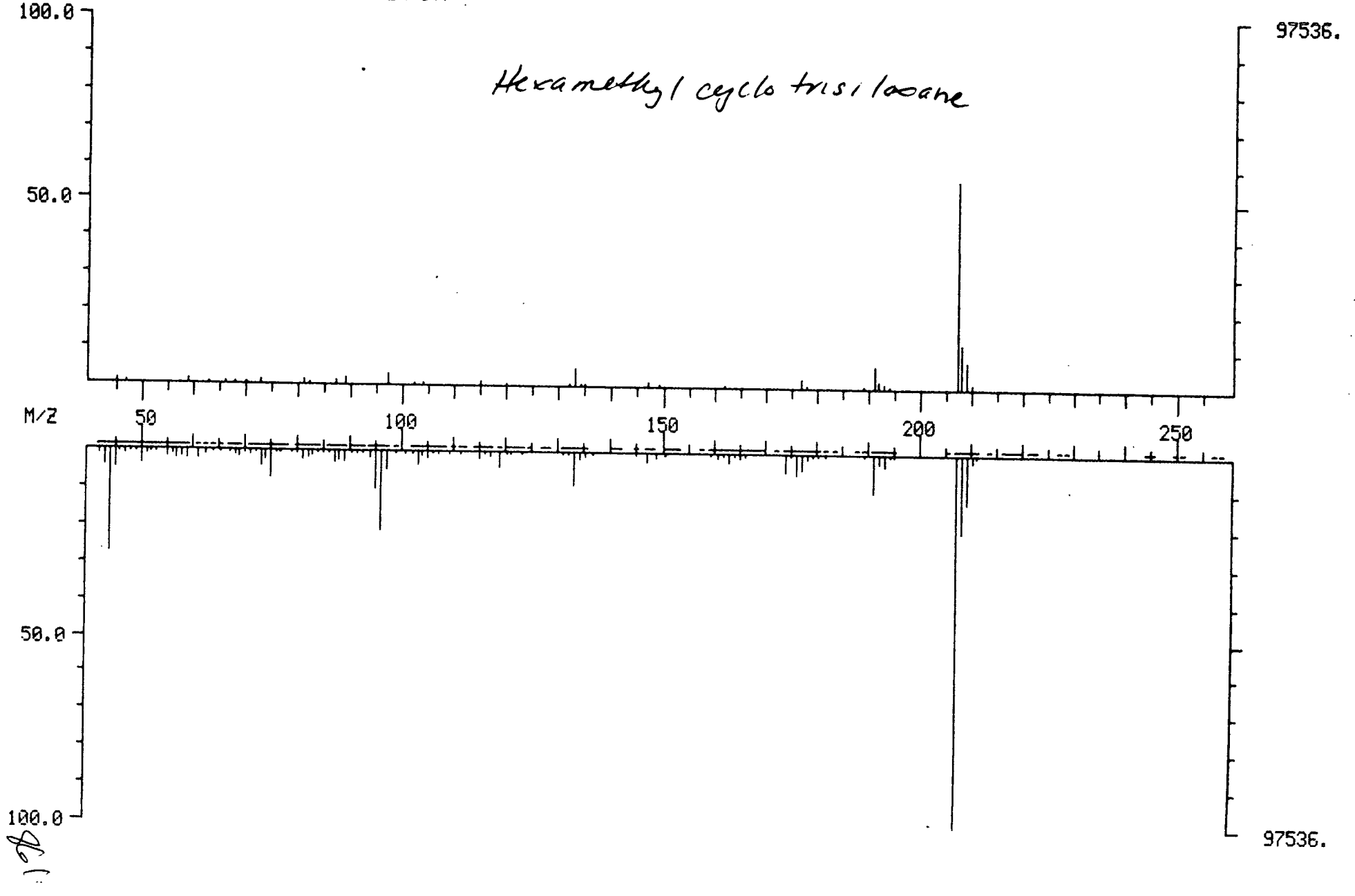
BASE M/Z: 44
RIC: 1191930.



DUAL MASS SPECTRUM
08/28/87 10:47:00 + 32:27
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: PU7432 #649
CALI: PU7432 #2

BASE M/Z: 207/ 207
RIC: 115583./ 350719.

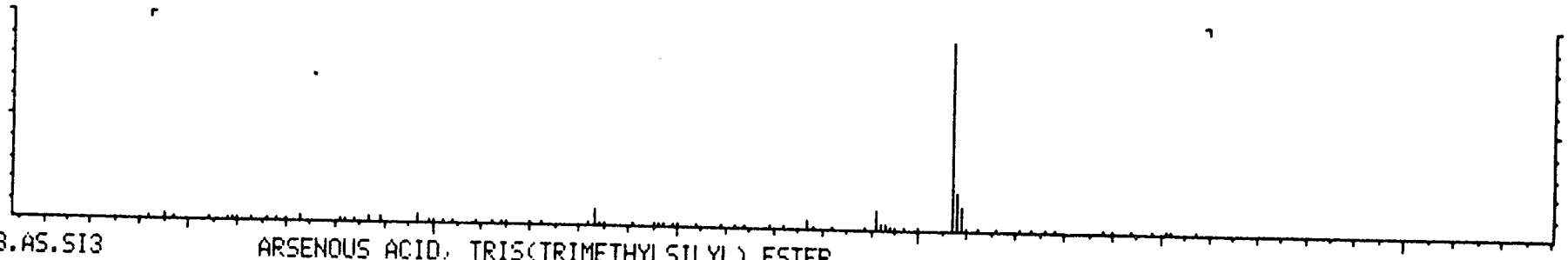


LIBRARY SEARCH
08/28/87 10:47:00 + 32:27
SAMPLE: INST.BLANK
CONDS.:
ENHANCED (S 15B 2N 0T)

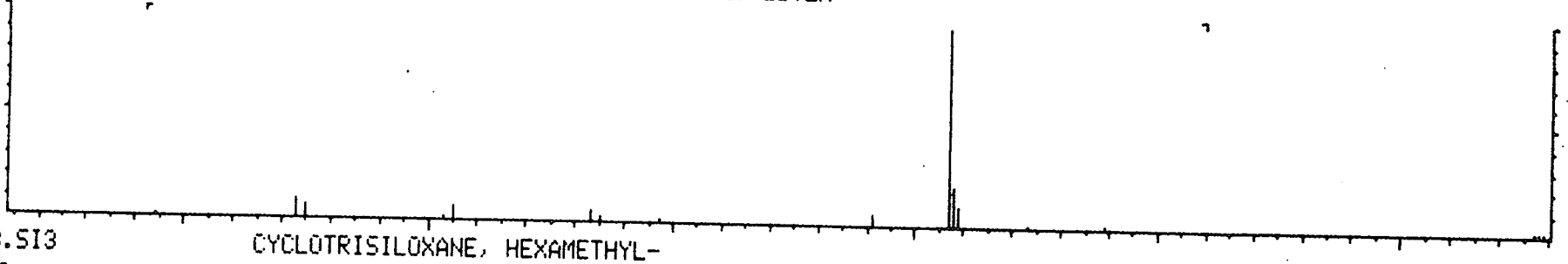
DATA: PU7432 # 649
CALI: PU7432 # 2

BASE M/Z: 207
RIC: 115583.

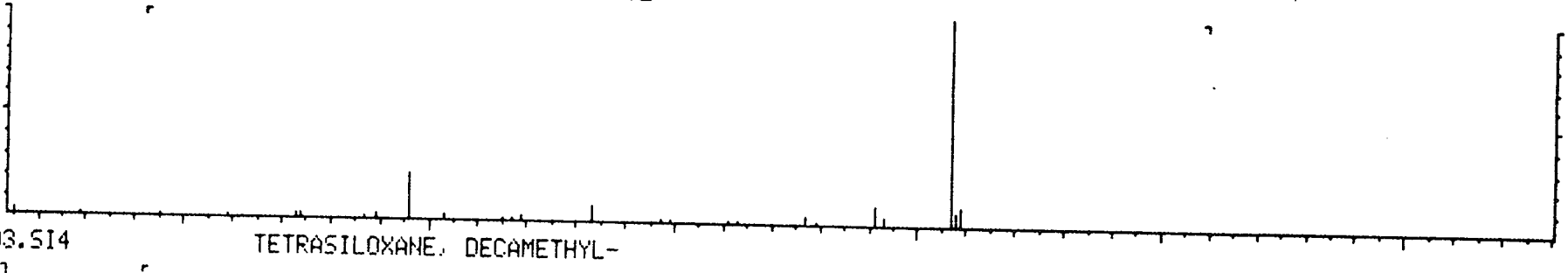
1102
SAMPLE



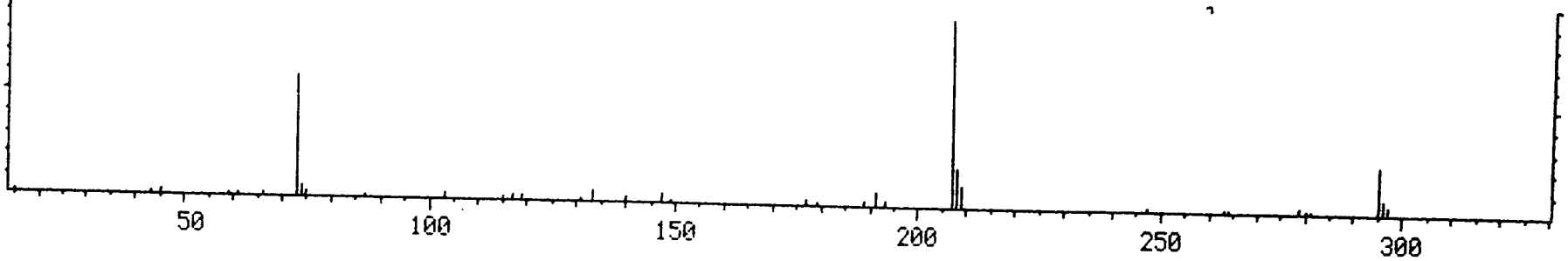
C9.H27.03.AS.SI3 ARSENOUS ACID, TRIS(TRIMETHYLSILYL) ESTER
1102
M WT 342
B PK 207
RANK 1
32875
PUR 775



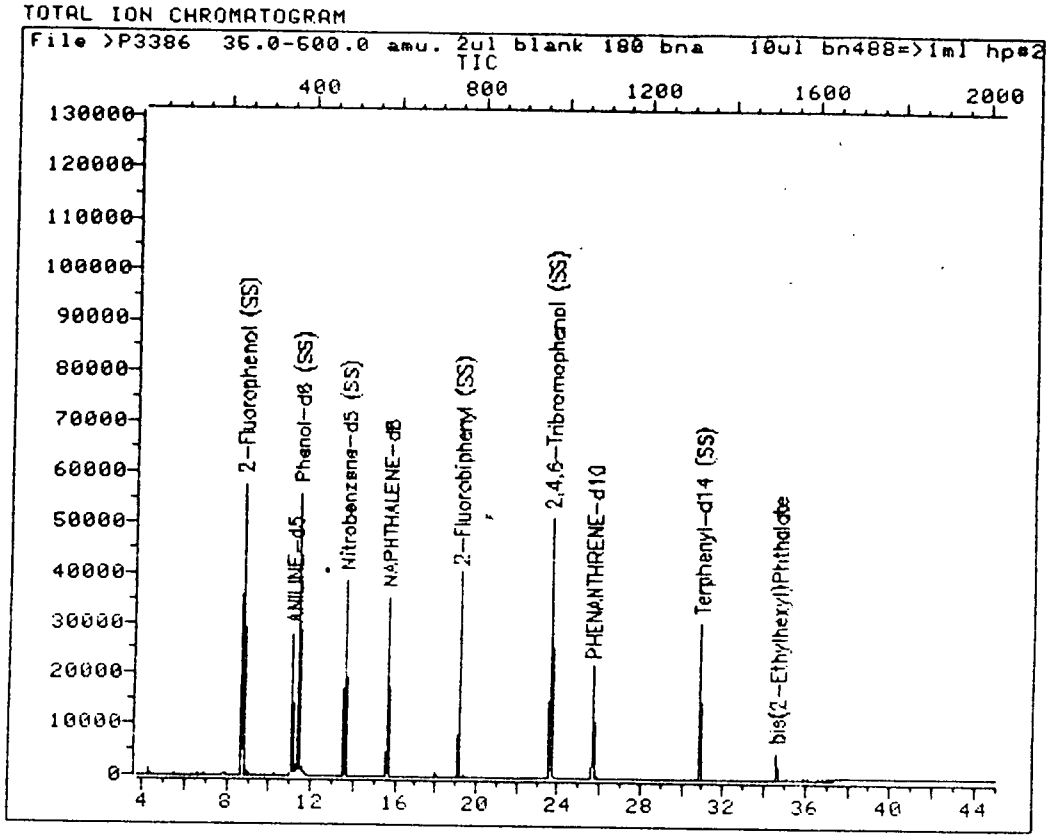
C6.H18.03.SI3 CYCLOTRISILOXANE, HEXAMETHYL-
1102
M WT 222
B PK 207
RANK 2
19998
PUR 763



C10.H30.03.SI4 TETRASILOXANE, DECAMETHYL-
1102
M WT 310
B PK 207
RANK 3
30068
PUR 743



TOTAL ION CHROMATOGRAM



Data File: >P3386::B1
Name: 2ul blank 180 bna
Misc: 10ul bn488=>1ml hp#2

Quant Output File: ^P3386::QT

BTL#56

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870909 17:05
Injected at: 870909 16:19

QUANT REPORT

Operator ID: GLENN
Output File: ^P3386::QT
Data File: >P3386::B1
Name: 2ul blank 180 bna
Misc: 10ul bn488=>1ml hp#2

Quant Rev: 6 Quant Time: 870909 17:05
Injected at: 870909 16:19
Dilution Factor: 1.00000

BTL#56

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.07	359	23986	42.85	ug/mL	63
3)	2-Fluorophenol (SS)	8.67	241	43194	113.17	ug/mL	46
6)	Phenol-d6 (SS)	11.36	373	58734	110.83	ug/mL	72
14)	*NAPHTHALENE-d8	15.61	582	40844	41.04	ug/mL	59
15)	Nitrobenzene-d5 (SS)	13.58	482	33616	58.73	ug/mL	73
29)	2-Fluorobiphenyl (SS)	19.11	754	40048	67.37	ug/mL	98
40)	2,4,6-Tribromophenol (SS)	23.59	974	26666	85.59	ug/mL	80
41)	*PHENANTHRENE-d10	25.63	1074	25088	41.02	ug/mL	66
51)	Terphenyl-d14 (SS)	30.84	1330	37099	82.70	ug/mL	38
57)	bis(2-Ethylhexyl)Phthalate	34.61	1515	2566	4.44	ug/mL	80

* Compound is ISTD

MS data file header from : >P3386

Sample: 2ul blank 180 bna Operator: GLENN MS 9/09/87 16:19
Misc : 10ul bn488=>1ml hp#2 BTL#56
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

No peaks found.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	42.8	81367.	11.07	3.78 - 13.34
2	41.0	100454.	15.61	13.34 - 20.62
3	41.0	69508.	25.63	20.62 - 45.04

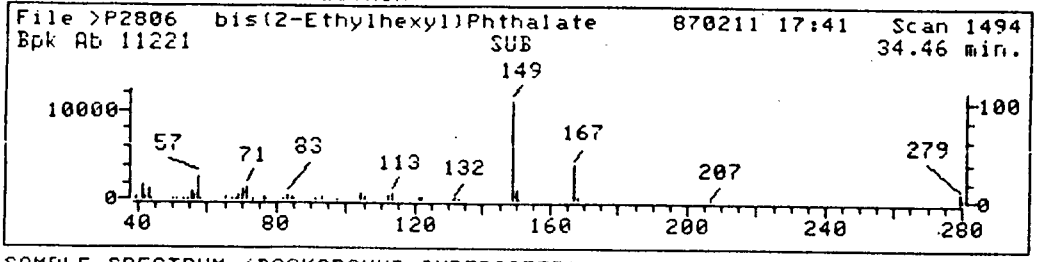
Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 0.00 Amount Used (AU) = 0.00

Correction Factor = ******** = (AM / AU) / (DF * FS)

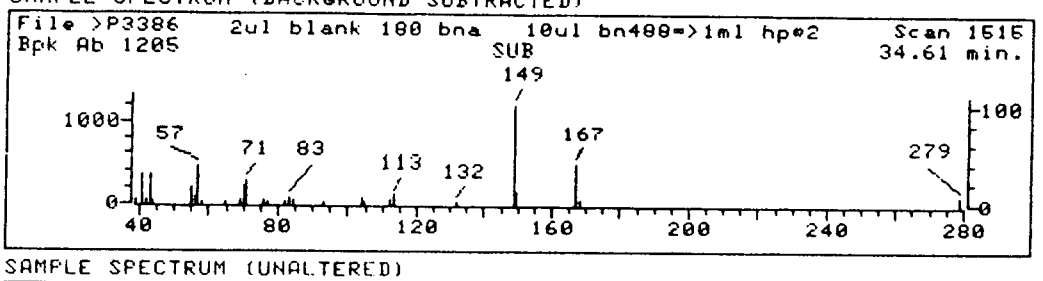
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unk} * \text{Correction Factor}$$

9:10 AM MON., 14 SEPT, 1987

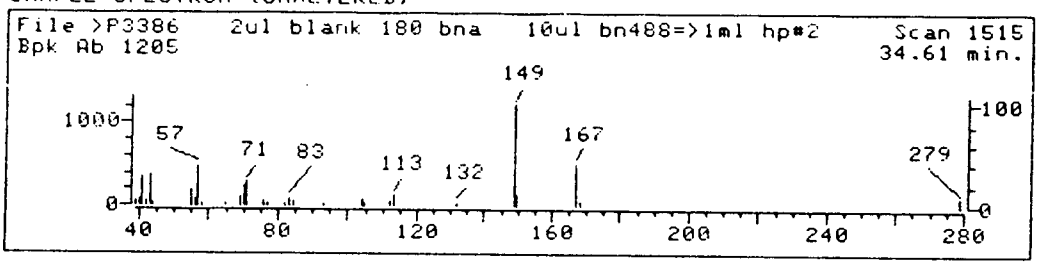
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



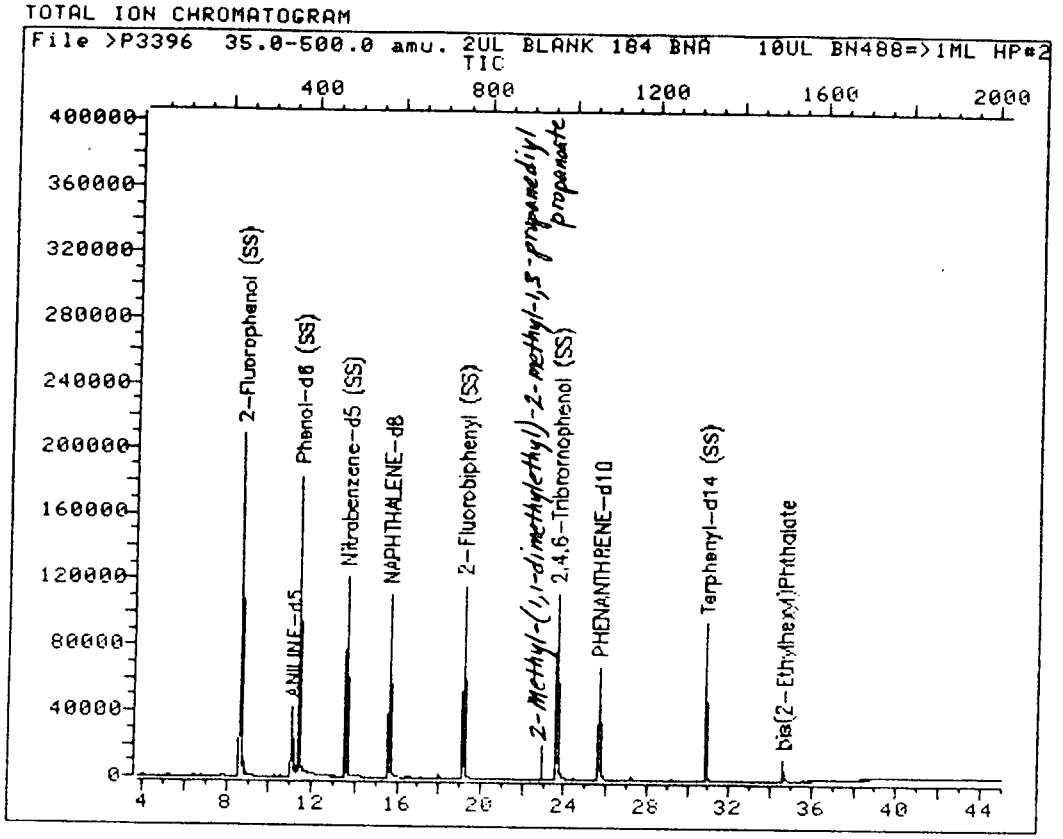
SAMPLE SPECTRUM (UNALTERED)



Data File: >P3386::B1 Quant Output File: ^P3386::QT
Name: 2ul blank 180 bna
Misc: 10ul bn488=>1ml hp#2 BTL#5
Quant Time: 870909 17:05 Quant ID File: ID_625::ME
Injected at: 870909 16:19 Last Calibration: 870909 17:00

Compound No: 57
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1515
Retention Time: 34.61 min.
Quant Ion: 149.0
Area: 2566
Concentration: 4.44 ug/mL
q-value: 80

TOTAL ION CHROMATOGRAM



Data File: >P3396::B1
Name: 2UL BLANK 184 BNA
Misc: 10UL BN488=>1ML HP#2

Quant Output File: ^P3396::QT

BTL#51

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

Operator ID: GLENN
Quant Time: 870910 16:26
Injected at: 870910 15:39

867

QUANT REPORT

Operator ID: GLENN
Output File: ^P3396::QT
Data File: >P3396::B1
Name: 2UL BLANK 184 BNA
Misc: 10UL BN488=>1ML HP#2

Quant Rev: 6 Quant Time: 870910 16:26
Injected at: 870910 15:39
Dilution Factor: 1.00000

BTL#51

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.05	358	51480M	42.85	ug/mL	
3)	2-Fluorophenol (SS)	8.63	239	133823	157.30	ug/mL	48
6)	Phenol-d6 (SS)	11.36	373	209334	162.11	ug/mL	86
14)	*NAPHTHALENE-d8	15.59	581	136378	41.04	ug/mL	59
15)	Nitrobenzene-d5 (SS)	13.56	481	110879	56.22	ug/mL	80
29)	2-Fluorobiphenyl (SS)	19.10	753	113911	56.08	ug/mL	98
40)	2,4,6-Tribromophenol (SS)	23.58	973	53343	90.90	ug/mL	85
41)	*PHENANTHRENE-d10	25.62	1073	85722	41.02	ug/mL	71
51)	Terphenyl-d14 (SS)	30.83	1329	113157	82.58	ug/mL	41
57)	bis(2-Ethylhexyl)Phthalate	34.60	1514	9984	4.99	ug/mL	84

* Compound is ISTD

MS data file header from : >P3396

Sample: 2UL BLANK 184 BNA Operator: GLENN MS 9/10/87 15:39
Misc : 10UL BN488=>1ML HP#2 BTL#51
Sys. #: 2 MS model: 70 SW/HW rev.: IA ALS # : 0
Method file: EXTBNA Tuning file: MT8002 No. of extra records: 2
Source temp.: 0 Analyzer temp.: 280 Transfer line temp. : 0

Chromatographic temperatures :	30.	300.	0.	0.	0.
Chromatographic times, min. :	4.0	7.3	0.0	0.0	0.0
Chromatographic rate, deg/min:	8.0	0.0	0.0	.5	0.0

>P3396 2UL BLANK 184 BNA 10UL BN488=>1ML HP#2
35.01 500.0 CLP ADC TIC
Upslope: .20 Area Reject: 23941. Max Peaks: 2 Bunching: 1
Dnslope: 0.00 Results File IP3396 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	11.05	355	358	367	40626	180008	160876	100.00	77.060
2	22.89	936	939	942	20948	48902	47890	29.77	22.940

Sum of corrected areas: 208766.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
2	41.0	302603.	15.99	7.80 - 20.61
3	41.0	239412.	25.62	20.61 - 45.04

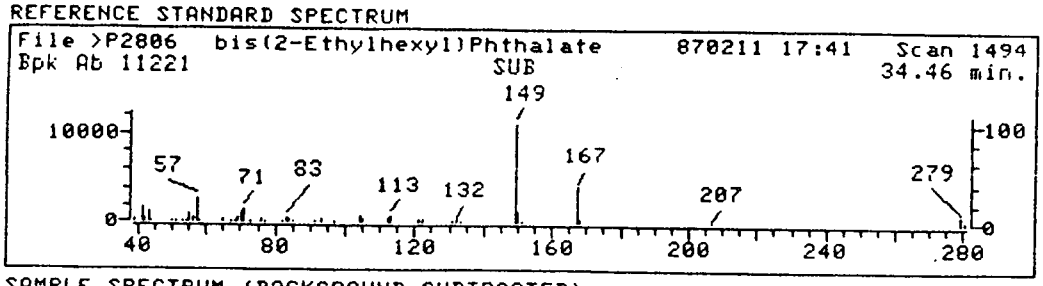
Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 0.00 Amount Used (AU) = 0.00

Correction Factor = ******** = (AM / AU) / (DF * FS)

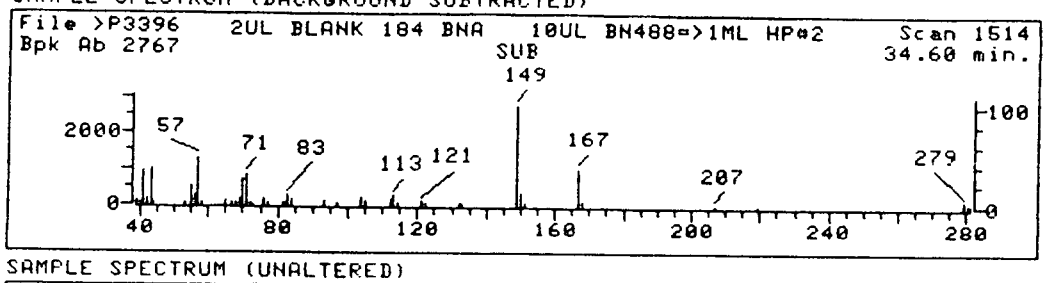
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unk} * \text{Correction Factor}$$

4:33 PM THU., 10 SEPT, 1987

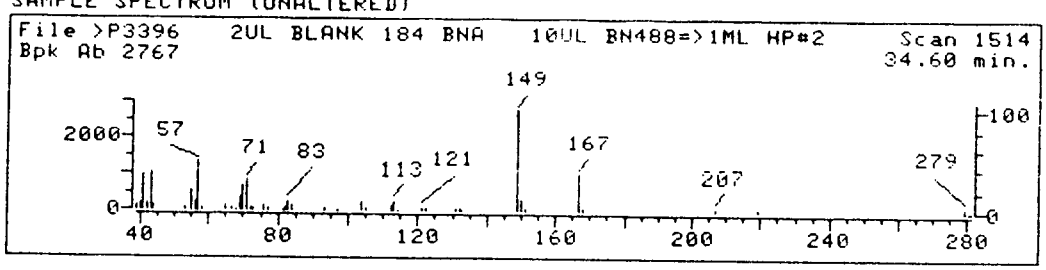
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

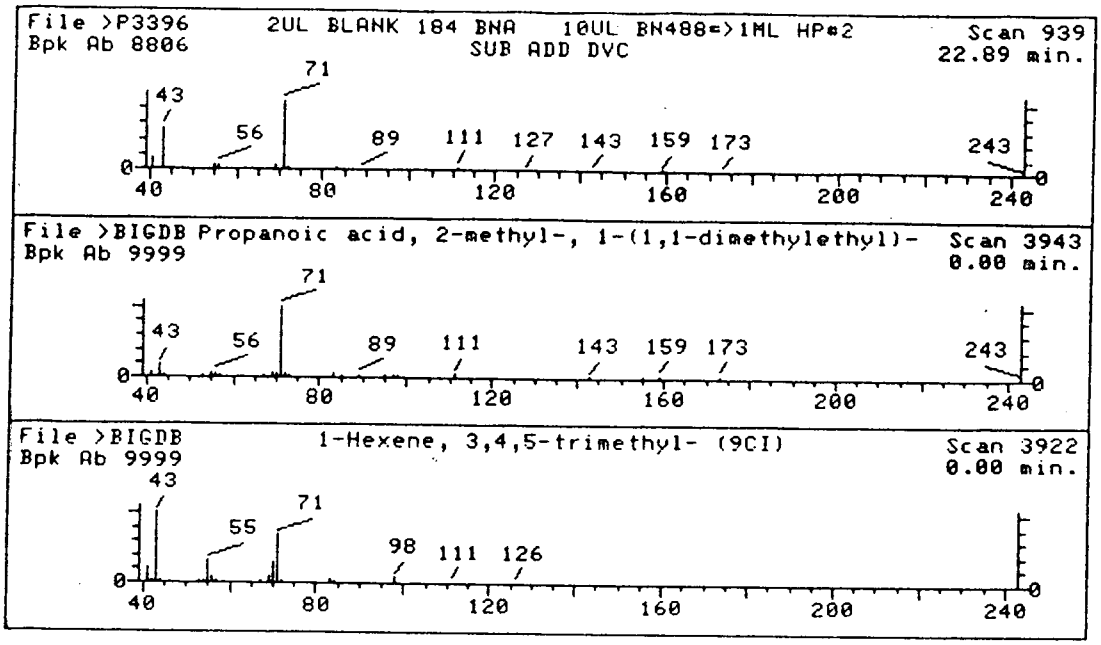


Data File: >P3396::B1
Name: 2UL BLANK 184 BNA
Misc: 10UL BN488=>1ML HP#2
Quant Time: 870910 16:26
Injected at: 870910 15:39

Quant Output File: ^P3396::QT

BTL#51
Quant ID File: ID_625::ME
Last Calibration: 870910 15:35

Compound No: 57
Compound Name: bis(2-Ethylhexyl)Phthalate
Scan Number: 1514
Retention Time: 34.60 min.
Quant Ion: 149.0
Area: 9984
Concentration: 4.99 ug/mL
q-value: 84



. Unknown #,2
Area = 47890.00 Tentative Concentration is 8.00

1. Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-m ethyl-1,3-propanediyl ester (9CI) 286 C16H3004
2. 1-Hexene, 3,4,5-trimethyl- (9CI) 126 C9H18

Sample file: >P3396 Spectrum #: 939
Search speed: 1 Tilting option: N No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	34	74381401	3943	"BIGDB	63	44	1	0	51	39	14	21

QUANTITATION FOR HSL COMPOUNDS

AND TENTATIVELY ~~IDENTIFIED COMPOUNDS~~

FOR WATER SAMPLES

$$\mu g/L = \frac{(A_x)\,(I_s)\,(V_t)}{(A_{IS})\,(RF)\,(V_o)\,(V_i)}$$

Method Blank 184 p3396

scan 939: 2-Methyl-(1,1-dimethylethyl)-2-methyl-1,3-propanediyl-propionate

$$\mu g/L = \frac{(47890)(80)(1000)}{(239412)(1.0)(2.0)(250)}$$

$= 32\ \mu g/L$

A_x = EICP AREA OF CHARACTERISTIC ION (FROM TABLES 4-6) FOR ANALYTIC*

A_{IS} = AREA OF CHARACTERISTIC ION OF ASSIGNED IS.

I_s = NG OF IS

V_o = VOLUME OF H_2O EXTRACTED IN ML.

V_i = VOLUME OF EXTRACT INJECTED IN μL.

V_t = TOTAL VOLUME OF EXTRACT (2000 μL. WHEN NO DILUTIONS)

9/16/87

20 + ..

*IF SECONDARY ION MUST BE USED BECAUSE OF INTERFERENCES A RF MUST BE GENERATED USING THE SECONDARY ION.

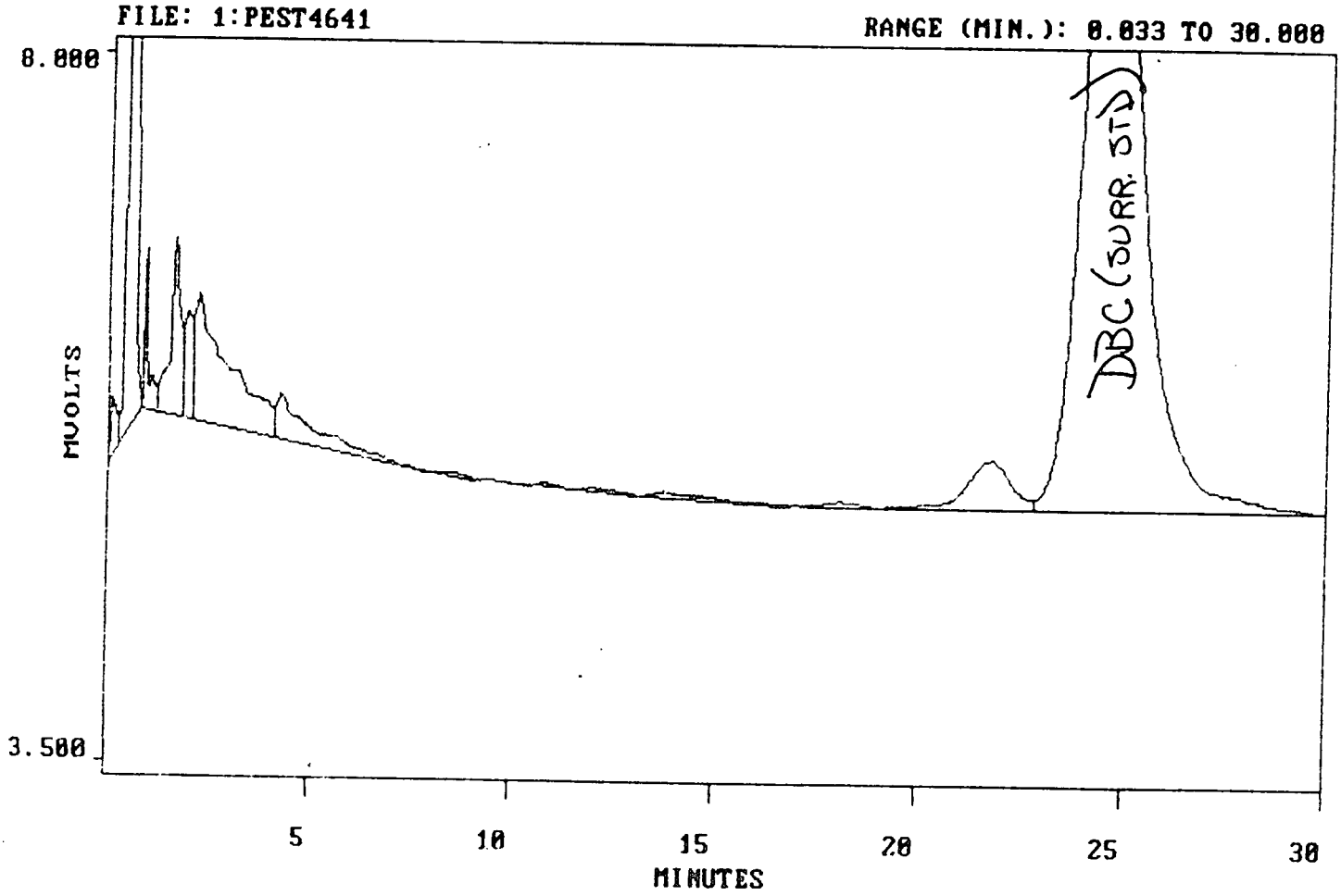
CLP

METHOD BLANK 180

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time: 11:48:11 Date: THU 10 SEP 87

Time: 10:03:15 Date: THU 10 SEP 87
Method: PEST1



Channel # 4 Time 10 34 54 Date THU 10 SEP 87
Run #31 of 50

Sample name
Data file DAT351:PEST4641
Method name PEST1

Author URM
Instrument 4
Column 1 5% SP-2250/1 95% SP-2401 ON 100/120
Notes SUPELCOPORT

Run time 30.00 min Delay time 0.00 min
Acq time 10:03:15 Acq. date THU 10 SEP 87
Start PW 20.00 sec End PW 150.00 sec
Actual PW 140.0
Slope sens 0.70 uv/sec

Area reject 500
peaks found 13
Vol. Inj. 5.0 ul Sample amount 1.000
Conv. factor 1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
2.575	LINDANE	0	
2.924	beta-BHC	0	
3.130	HEPTACHLOR	0	
3.393	delta-BHC	0	
3.770	ALDRIN	0	
5.760	HEPTACHLOR EPOXI	0	
7.139	ENDOSULFAN I	0	
8.710	DIELDRIN	0	
12.395	P,P'-DDD	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
22.759	MIREX (STD.)	0	S
27.978	DBC/METHOX/END.K	0	

Bonarelli 9/17/87

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AREA PERCENT REPORT

==========

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht	BL

1	0.132		0.146	4600	384	BV
2	0.498		79.152	2493775	596624	VB
3	0.923		0.258	8123	1111	BV
4	1.639		0.648	20424	1190	VV
5	1.974	~~alpha-BHC~~ MLR	0.315	9919	721	VV
6	2.258					
7	4.278		1.576	49657	863	VV
8	8.379	~~P,P'-DDE~~ MLR	0.584	18397	305	VB
9	10.792	~~ENDRIN~~ MLR	0.039	1220	30	BB
10	13.710		0.059	1873	26	BB
			0.099	3126	37	BB
11	18.095					
12	21.777		0.060	1896	35	BB
13	24.550	DBC (SURR. STD)	0.773	24346	319	BV
TOTALS			16.291	513267 3000/2.05	5403	VB
			100.000	3150623		

1.0 ug/l DBC SPIKED INTO SAMPLE

205%

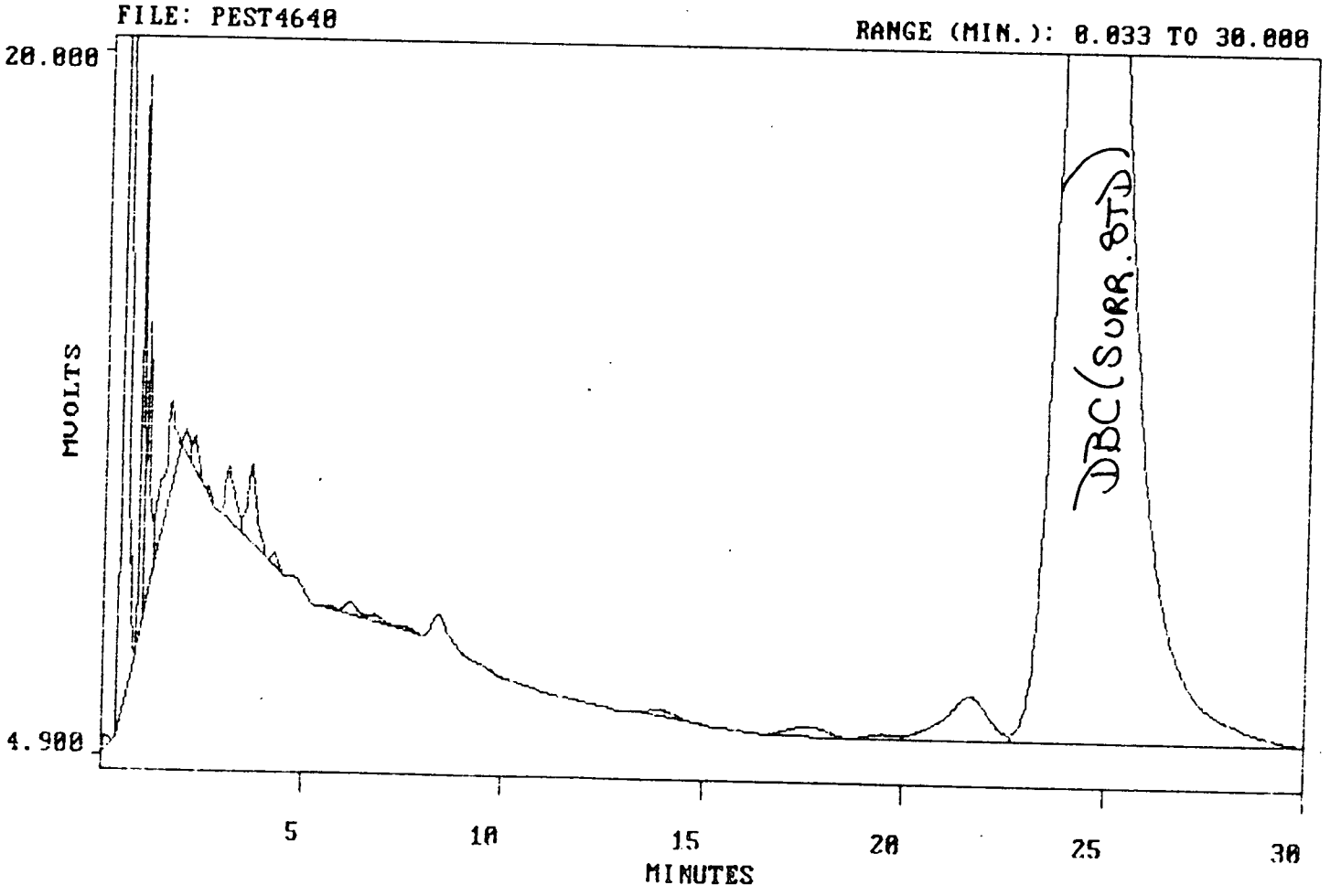
875

METHOD BLANK-182

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time: 18:16:24 Date: THU 17 SEP 87

Time: 09:30:21 Date: THU 10 SEP 87
Method: PEST1



Channel # REINT Time 18:15:09 Date THU 17 SEP 87

Sample name .....
Data file PEST4640
Method name PEST1

Author ..... URM
Instrument ... 4
Column ..... 1 5% SP-2250/1.95% SP-2401 ON 100/120
Notes ..... SUPELCOPORT

Run time ..... 30.00 min
Acq time 09:30:21
Start PW ..... 20.00 sec.
Slope sens ... 0.70 uv/sec.

Delay time ... 0.00 min.
Acq. date ... THU 10 SEP 87
End PW ..... 150.00 sec.
Actual PW ... 140.0

Area reject ... 500
peaks found . 19
Vol Inj ..... 5.0 ul
Conv factor ... 1.000

Sample amount . 1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R T (min)	Peak name	Group	Ref/Std
2.924	beta-BHC	0	
3.393	delta-BHC	0	
5.760	HEPTACHLOR EPOXI	0	
7.139	ENDOSULFAN I	0	
8.208	P,P'-DDE	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
12.395	P,P'-DDD	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
22.759	MIREX (STD.)	0	S
27.978	DBC/METHOX/END.K	0	

==========

AREA PERCENT REPORT

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Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL

877

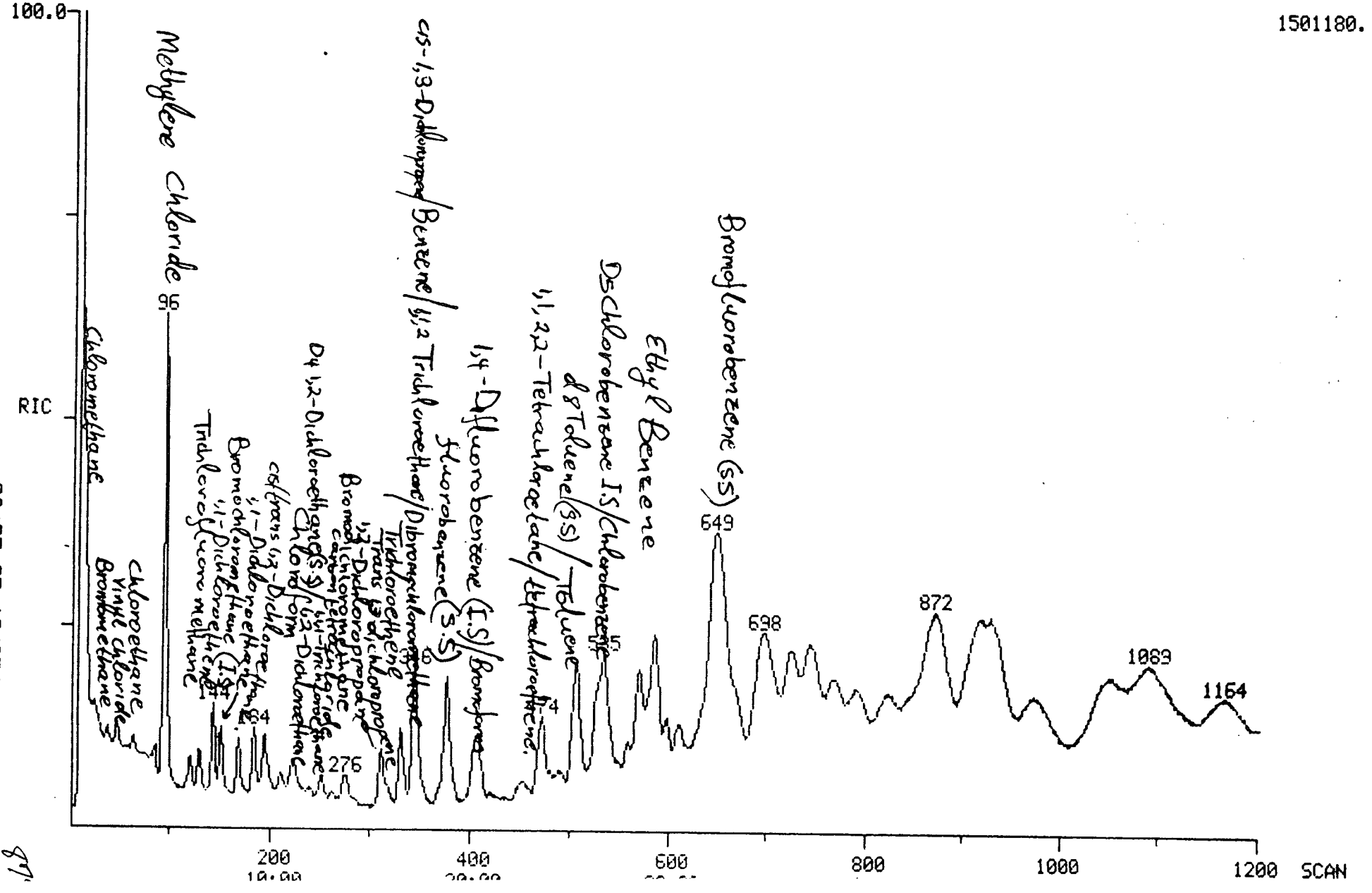
2	0.505		0.045	3000	290	BB
3	0.923		49.928	3305616	753097	BB
4	1.071		1.085	71803	12957	BV
5	1.621		0.625	41367	6337	VV
			0.668	44226	2079	VB
6	1.987	~~alpha-BHC~~ MK	0.085	5643	525	BV

7	2.227					
8	2.568	~~LINDANE~~ MK	0.114	7554	749	VB
9	3.076	~~HEPTACHLOR~~ MK	0.017	1103	189	BB
10	3.665	~~ALDRIN~~ MK.	0.306	20242	1186	BV
			0.429	28370	1799	VB
11	4.239					
12	5.533		0.051	3380	323	BB
13	6.125		0.016	1035	47	BV
14	6.717		0.097	6405	290	VV
15	13.880		0.088	5797	163	VB
			0.100	6623	151	BB
16	17.650					
17	19.512		0.208	13776	200	BB
18	21.679		0.089	5863	118	BV
19	24.431	DBC (SURR. STD).	1.162	76953	994	VV
			44.889	2971955	25643	VB
TOTALS			100.000	6620711		

RIC
08/28/87 11:46:00
SAMPLE: 1ML #BSA 08197890 MAT.SPIKE
CONDS.:
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU7433 #1
CALI: PU7433 #2

SCANS 1 TO 1200



TICA FINISHED, 26 FOUND
FINISHED AT: 9/10/87 18:26:06

QUANTITATION REPORT FILE: PU7433

DATA: PU7433.TI
08/28/87 11:46:00
SAMPLE: 1ML #BSA 08197890 MAT. SPIKE
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

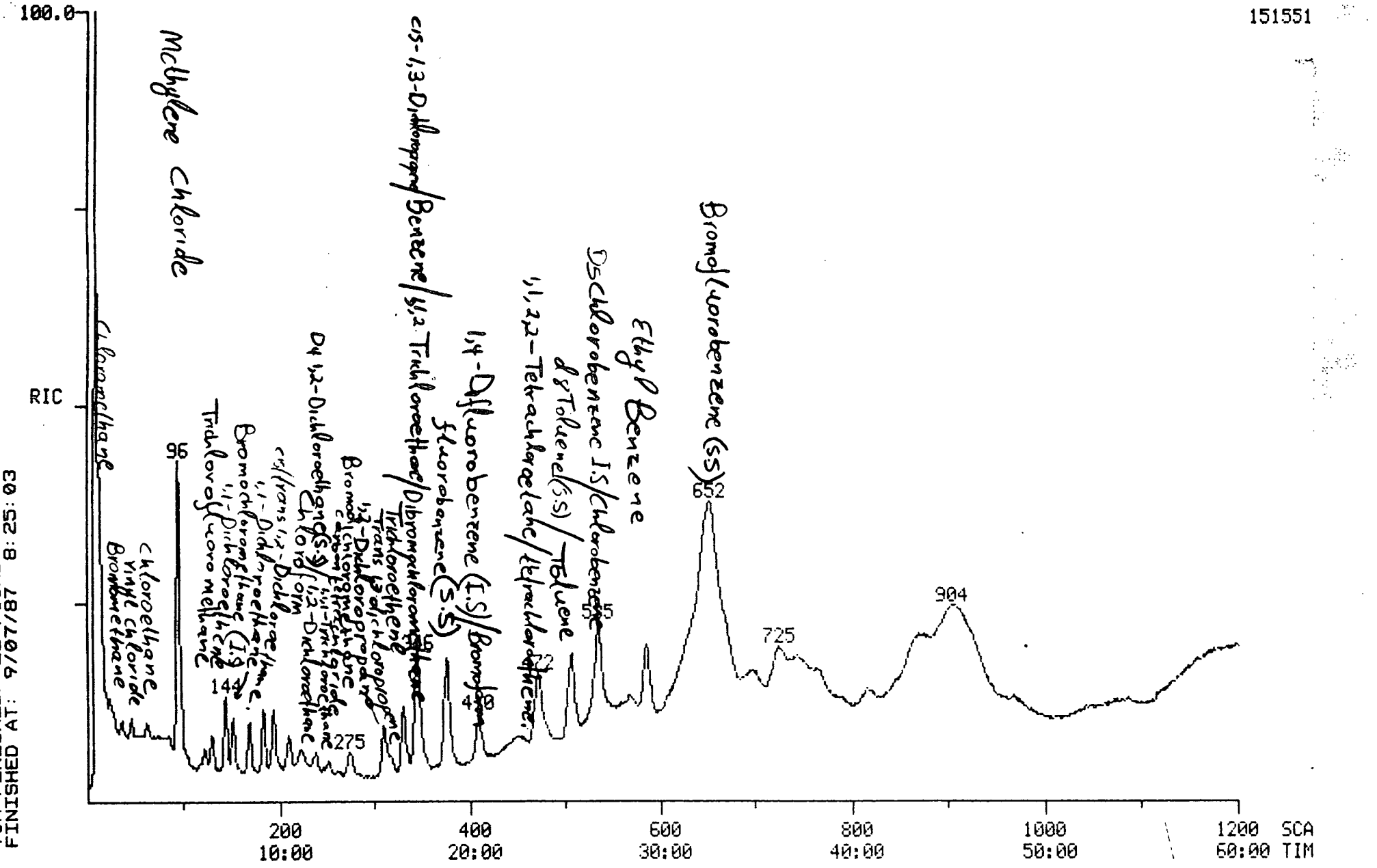
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
RESP. FAC. FROM LIBRARY ENTRY

No	Name
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	152	7:36	1	1.000	A BV	55490.	30.000 UG/L	1.43
2	65	221	11:03	1	1.454	A*BB	83471.	22.443 UG/L	1.07
3	50	23	1:09	1	0.151	A BB	222096.	35.574 UG/L	1.69
4	94	38	1:54	1	0.250	A BB	21612.	38.574 UG/L	1.84
5	62	47	2:21	1	0.309	A BB	103501.	38.038 UG/L	1.81
6	64	63	3:09	1	0.414	A BB	56651.	20.141 UG/L	0.96
7	84	96	4:48	1	0.632	A BB	201728.	41.350 UG/L	1.97
~~8~~	~~43~~	~~96~~	~~4:48~~	~~1~~	~~0.632~~	~~A BB~~	~~18340.~~	~~3.418 UG/L~~	~~0.16~~
~~9~~	~~76~~	~~90~~	~~4:30~~	~~1~~	~~0.592~~	~~A BB~~	~~1368.~~	~~33.001 UG/L~~	~~1.57~~
10	96	144	7:12	1	0.947	A BB	142757.	36.701 UG/L	1.75
11	63	170	8:30	1	1.118	A BB	193536.	39.738 UG/L	1.89
12	96	184	9:12	1	1.211	A BB	86634.	35.351 UG/L	1.68
13	83	196	9:48	1	1.289	A BB	244591.	33.744 UG/L	1.61
14	62	225	11:15	1	1.480	A*BB	165553.	21.073 UG/L	1.00
15	101	130	6:30	1	0.855	A BV	141681.	32.017 UG/L	1.52
~~16~~	~~85~~	~~32~~	~~1:36~~	~~1~~	~~0.211~~	~~A*BB~~	~~1348.~~	~~22.045 UG/L~~	~~1.05~~
~~17~~	~~56~~	~~141~~	~~7:03~~	~~1~~	~~0.928~~	~~A VV~~	~~1667.~~	~~166.477 UG/L~~	~~7.92~~
~~18~~	~~53~~	~~152~~	~~7:36~~	~~1~~	~~1.000~~	~~A*VV~~	~~1832.~~	~~411.774 UG/L~~	~~19.60~~
19	114	410	20:30	19	1.000	A BB	209696.	30.000 UG/L	1.43

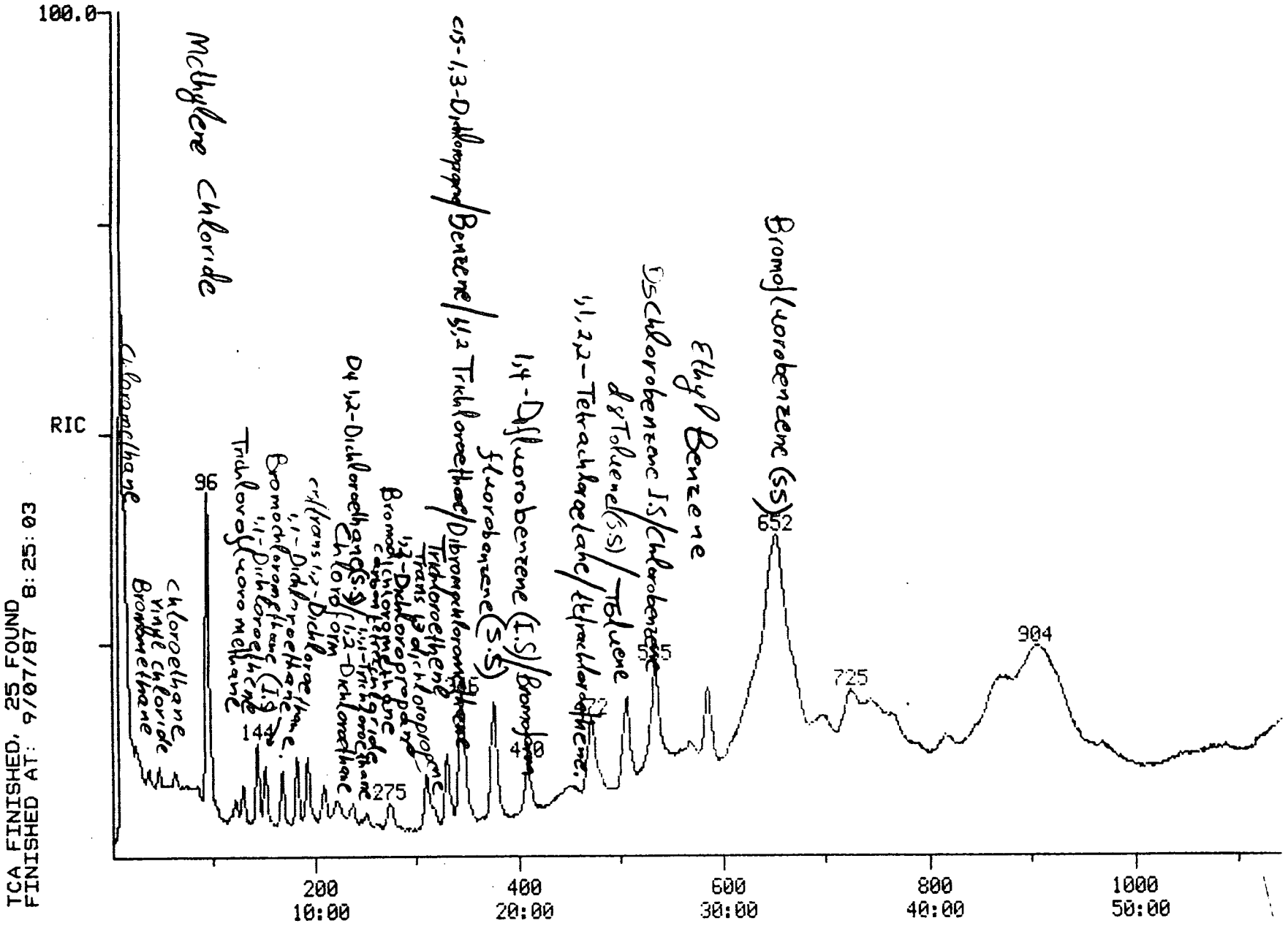
~~20~~	~~43~~	~~195~~	~~9:45~~	~~19~~	~~0.476~~	~~A BB~~	~~4798.~~	~~5.864 UG/L~~	~~0.28~~
21	97	253	12:39	19	0.617	A BB	47452.	39.692 UG/L	1.89
22	117	262	13:06	19	0.639	A VB	17033.	23.105 UG/L	1.10
~~23~~	NOT FOUND								
24	83	276	13:48	19	0.673	A BB	115369.	38.280 UG/L	1.82
25	63	312	15:36	19	0.761	A BB	58160.	36.049 UG/L	1.72
26	75	319	15:57	19	0.778	A BB	69806.	38.578 UG/L	1.84
27	130	332	16:36	19	0.810	A BB	133389.	39.966 UG/L	1.90
28	129	343	17:09	19	0.837	A BB	63557.	22.210 UG/L	1.06
29	97	348	17:24	19	0.849	A VB	109955.	35.123 UG/L	1.67
30	78	345	17:15	19	0.841	A BB	406764.	40.503 UG/L	1.93
31	75	351	17:33	19	0.856	A*BB	56976.	22.724 UG/L	1.08
32	63	378	18:54	19	0.922	A*BB	207368.	25.768 UG/L	1.23
33	173	410	20:30	19	1.000	A*BB	64880.	40.021 UG/L	1.90
34	117	534	26:42	34	1.000	A BV	158881.	30.000 UG/L	1.43
~~35~~	~~43~~	~~360~~	~~18:00~~	~~34~~	~~0.674~~	~~A BB~~	~~9290.~~	~~129.040 UG/L~~	~~6.14~~
~~36~~	NOT FOUND								
37	164	474	23:42	34	0.888	A BB	91090.	38.477 UG/L	1.83
38	83	469	23:27	34	0.878	A BV	152248.	31.396 UG/L	1.49
39	92	509	25:27	34	0.953	A BV	251097.	39.764 UG/L	1.89
40	112	537	26:51	34	1.006	A BB	240998.	36.967 UG/L	1.76
41	106	588	29:24	34	1.101	A BB	123128.	38.735 UG/L	1.84
~~42~~	~~104~~	~~602~~	~~30:06~~	~~34~~	~~1.127~~	~~A*BB~~	~~1585.~~	~~27.288 UG/L~~	~~1.30~~
~~43~~	~~106~~	~~629~~	~~31:27~~	~~34~~	~~1.178~~	~~A*BB~~	~~2298.~~	~~30.019 UG/L~~	~~1.43~~
~~44~~	~~106~~	~~629~~	~~31:27~~	~~34~~	~~1.178~~	~~A*BB~~	~~2298.~~	~~60.037 UG/L~~	~~2.86~~
45	146	820	41:00	34	1.536	A*BB	153098.	34.080 UG/L	1.62
46	146	851	42:33	34	1.594	A*BV	118502.	28.023 UG/L	1.33
47	146	862	43:06	34	1.614	A VB	119140.	23.171 UG/L	1.10
48	96	378	18:54	34	0.708	A BB	392262.	40.463 UG/L	1.93
49	95	650	32:30	34	1.217	A BB	186383.	34.152 UG/L	1.63

RIC DATA: PU7434 #1 SCANS 1 TO 1200
08/28/87 12:53:00 CALI: PU7434 #2
SAMPLE: 1ML #BSA 08197890 MAT.SPIKE DUP.
CONDS.:
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



ICA FINISHED, 25 FOUND
FINISHED AT: 9/07/87 8:25:03

RIC DATA: PU7434 #1 SCANS 1 TO 1200
08/28/87 12:53:00 CALI: PU7434 #2
SAMPLE: 1ML #BSA 08197890 MAT.SPIKE DUP.
CONDS.:
RANGE: G 1,1200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



QUANTITATION REPORT FILE: PU7434

DATA: PU7434.TI
08/28/87 12:53:00
SAMPLE: 1ML #8SA 08197890 MAT. SPIKE DUP.
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

No	Name
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

No	M/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	152	7:36	1	1.000	A BV	44821.	30.000 UG/L	0.84
2	65	208	10:24	1	1.368	A BV	56051.	18.657 UG/L	0.52
3	50	23	1:09	1	0.151	A BB	197792.	39.222 UG/L	1.10
4	94	38	1:54	1	0.250	A BB	21432.	47.358 UG/L	1.32
5	62	47	2:21	1	0.309	A BB	86844.	39.513 UG/L	1.11
6	64	63	3:09	1	0.414	A BV	48519.	21.356 UG/L	0.60
7	84	96	4:48	1	0.632	A BB	139840.	35.487 UG/L	0.99
8	42	101	5:03	1	0.664	A BV	11132	2.568 UG/L	0.07
9	76	91	4:33	1	0.599	A*BB	2383	71.467 UG/L	2.00
10	96	144	7:12	1	0.947	A BV	124055.	39.484 UG/L	1.10
11	63	169	8:27	1	1.112	A BB	140048.	35.600 UG/L	1.00
12	96	183	9:09	1	1.204	A BB	79981.	40.404 UG/L	1.13
13	83	194	9:42	1	1.276	A BB	222170.	37.946 UG/L	1.06
14	62	211	10:33	1	1.388	A*BV	173818.	27.391 UG/L	0.77
15	101	130	6:30	1	0.855	A BB	121744.	34.060 UG/L	0.95
16	85	46	2:18	1	0.303	A*BB	1856	37.573 UG/L	1.05
17	56	137	6:51	1	0.901	A VB	1878	232.189 UG/L	6.50
18	53	145	7:15	1	0.954	A*BV	1285	357.645 UG/L	10.01
19	114	410	20:30	19	1.000	A BB	179803.	30.000 UG/L	0.84

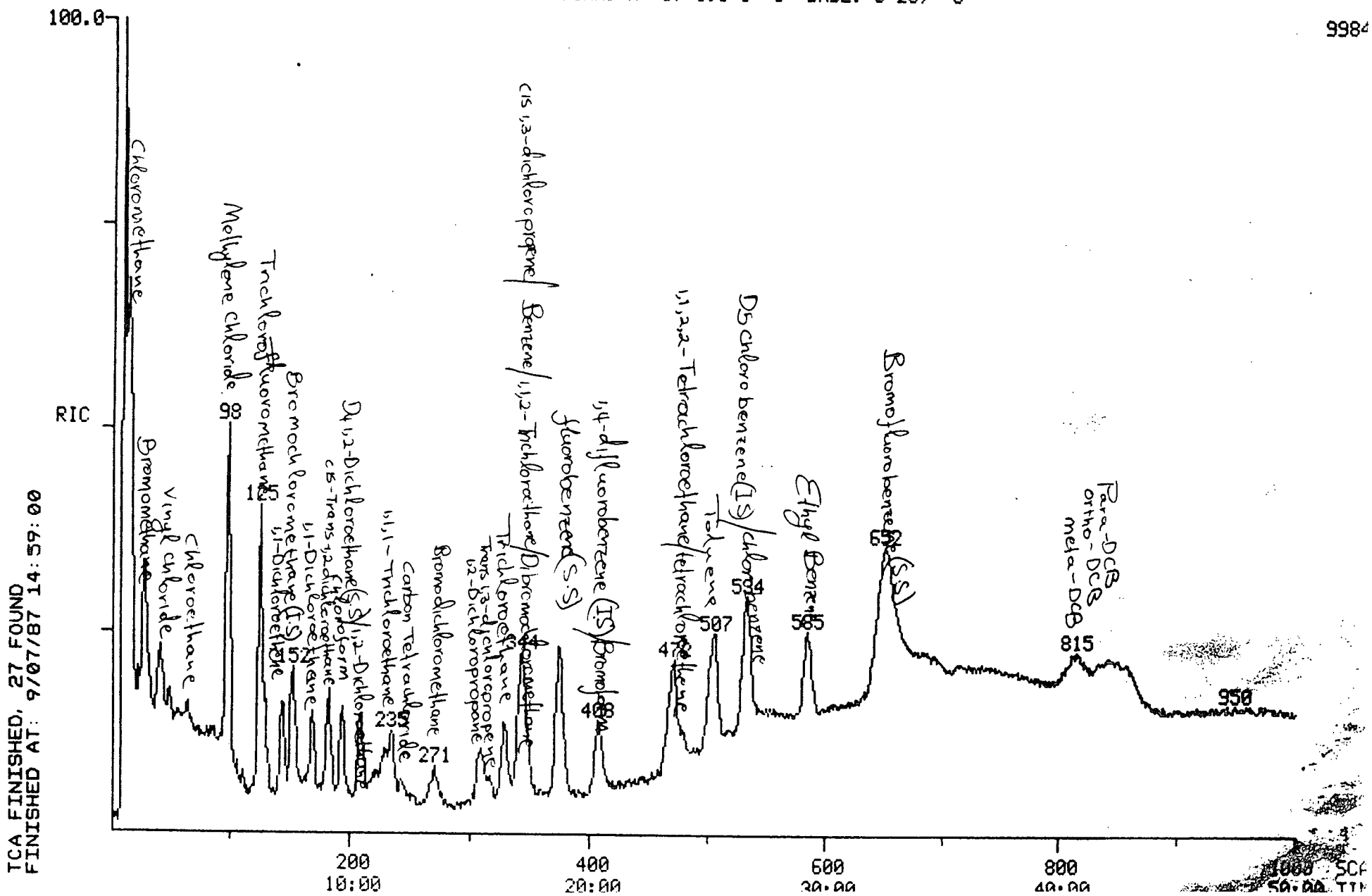
29
14:5

884

20	43	171	8:33	19	0.417	A*BB	9900.	14.111	UG/L	0.39
21	97	237	11:51	19	0.578	A BB	39638.	38.669	UG/L	1.08
22	117	246	12:18	19	0.600	A*BB	22375.	35.397	UG/L	0.99
23	43	269	13:27	19	0.656	A*BB	15028.	13.899	UG/L	0.39
24	83	275	13:45	19	0.671	A BB	100163.	38.760	UG/L	1.08
25	63	311	15:33	19	0.759	A BB	55024.	39.775	UG/L	1.11
26	75	318	15:54	19	0.776	A BB	61834.	39.854	UG/L	1.11
27	130	331	16:33	19	0.807	A BB	99065.	34.617	UG/L	0.97
28	129	343	17:09	19	0.837	A BB	66473.	27.091	UG/L	0.76
29	97	347	17:21	19	0.846	A BB	93261.	34.743	UG/L	0.97
30	78	345	17:15	19	0.841	A BB	295072.	34.267	UG/L	0.96
31	75	350	17:30	19	0.854	A BB	33127.	15.409	UG/L	0.43
32	63	376	18:48	19	0.917	A*BB	194584.	28.199	UG/L	0.79
33	173	409	20:27	19	0.998	A*BB	70347.	50.608	UG/L	1.42
34	117	533	26:39	34	1.000	A BB	140932.	30.000	UG/L	0.84
35	43	355	17:45	34	0.666	A BB	46120.	722.376	UG/L	20.21
36	43	376	18:48	34	0.705	A VB	207774.	869.898	UG/L	24.34
37	164	473	23:39	34	0.887	A BB	79784.	37.994	UG/L	1.06
38	83	468	23:24	34	0.878	A BV	162815.	37.851	UG/L	1.06
39	92	508	25:24	34	0.953	A BB	221559.	39.555	UG/L	1.11
40	112	536	26:48	34	1.006	A BB	214806.	37.146	UG/L	1.04
41	106	586	29:18	34	1.099	A BB	113516.	40.259	UG/L	1.13
42	NOT FOUND									
43	NOT FOUND									
44	NOT FOUND									
45	146	819	40:57	34	1.537	A*BB	142308.	35.713	UG/L	1.00
46	146	845	42:15	34	1.585	A*BB	107692.	28.710	UG/L	0.80
47	146	861	43:03	34	1.615	A VB	124150.	27.221	UG/L	0.76
48	96	377	18:51	34	0.707	A BB	360952.	41.975	UG/L	1.17
49	95	648	32:24	34	1.216	A BB	112428.	23.225	UG/L	0.65

RIC
08/28/87 14:54:00
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=>5MLS H2O MAT.SPIKE
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: PU7436 #1 SCANS 1 TO 1000
CALI: PU7436 #2



TCA FINISHED, 27 FOUND
FINISHED AT: 9/07/87 14:59:00

986

QUANTITATION REPORT FILE: PU7436

DATA: PU7436.TI
08/28/87 14:54:00
SAMPLE: 100UL #BSA 0819785(2.1180GMS=>5MLS MEOH)=>5MLS H2O MAT. SPIKE
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

No	Name
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR. STD)
49	BROMOFLUORBENZENE(SURR. STD)

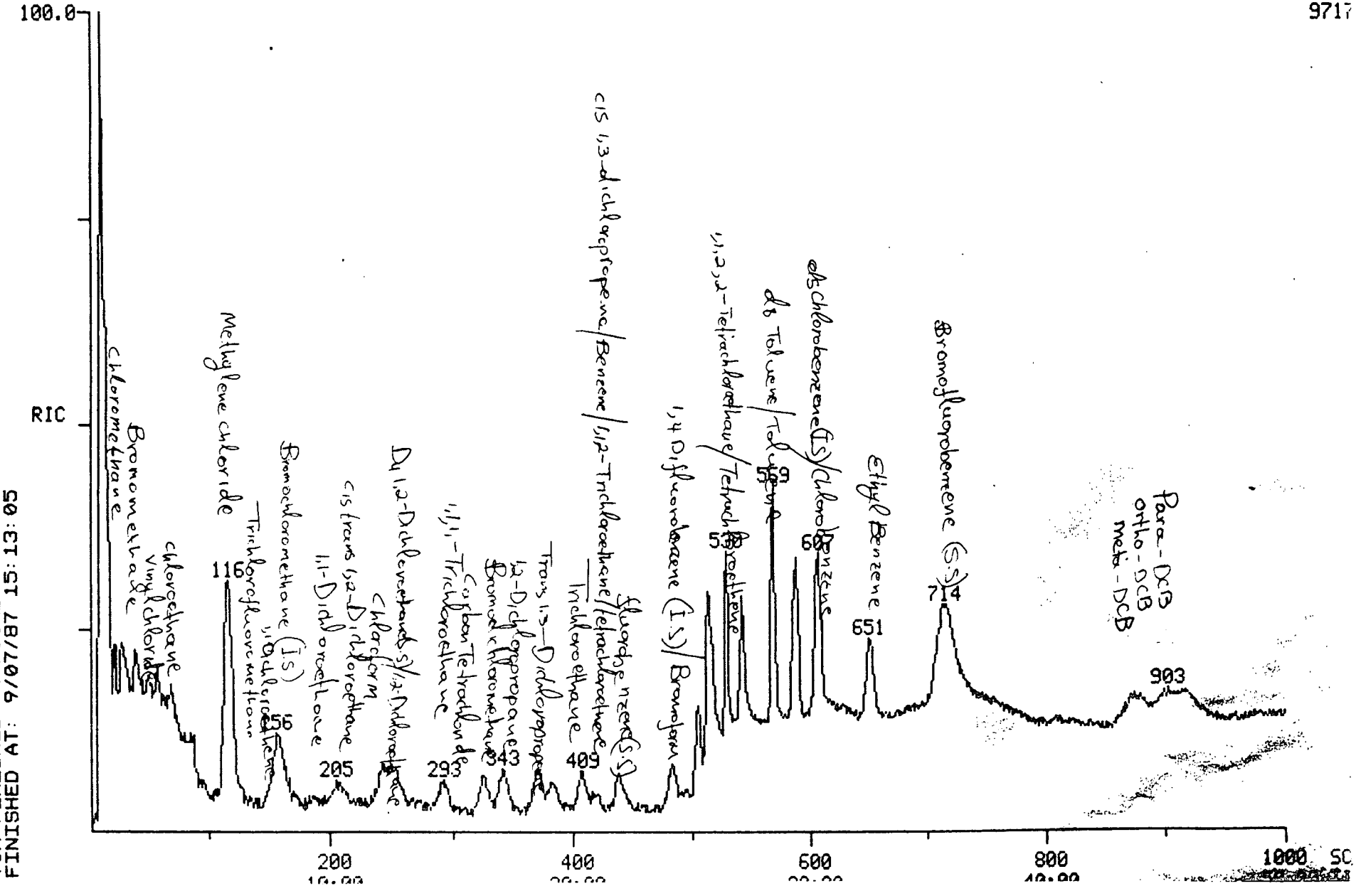
10.63

No	M/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	152	7:36	1	1.000	A BB	44095.	30.000	UG/L	0.73
2	65	207	10:21	1	1.362	A BV	83403.	28.219	UG/L	0.69
3	50	27	1:21	1	0.178	A BB	741548.	149.469	UG/L	3.63
4	94	40	2:00	1	0.263	A BB	31296.	70.293	UG/L	1.71
5	62	49	2:27	1	0.322	A BB	87832.	40.621	UG/L	0.99
6	64	65	3:15	1	0.428	A BV	56596.	25.321	UG/L	0.62
7	84	98	4:54	1	0.645	A BB	110688.	28.552	UG/L	0.69
~~8~~	~~49~~	~~102~~	~~5:06~~	~~1~~	~~0.671~~	~~A BB~~	~~6424.~~	~~1.506~~	~~UG/L~~	~~0.04~~
~~9~~	~~76~~	~~85~~	~~4:15~~	~~1~~	~~0.559~~	~~A BB~~	~~928.~~	~~28.171~~	~~UG/L~~	~~0.68~~
10	96	143	7:09	1	0.941	A BV	98102.	31.738	UG/L	0.77
11	63	168	8:24	1	1.105	A BB	142288.	36.765	UG/L	0.89
12	96	182	9:06	1	1.197	A BB	78908.	40.519	UG/L	0.98
13	83	193	9:39	1	1.270	A BV	206993.	35.936	UG/L	0.87
14	62	209	10:27	1	1.375	A BV	143785.			

887

18	53	139	6:57	1	0.914	A*VB	2410.	681.806	UG/L	16.56
19	114	408	20:24	19	1.000	A BB	179198.	30.000	UG/L	0.73
20	43	174	8:42	19	0.426	A BB	39928.	57.102	UG/L	1.39
21	97	235	11:45	19	0.576	A BB	41400.	40.524	UG/L	0.98
22	117	244	12:12	19	0.598	A VB	24718.	39.235	UG/L	0.95
23	43	266	13:18	19	0.652	A*BB	8500.	7.888	UG/L	0.19
24	83	271	13:33	19	0.664	A BB	102163.	39.667	UG/L	0.96
25	63	309	15:27	19	0.757	A BB	55104.	39.967	UG/L	0.97
26	75	316	15:48	19	0.775	A BB	62473.	40.401	UG/L	0.98
27	130	329	16:27	19	0.806	A BB	89940.	31.534	UG/L	0.77
28	129	340	17:00	19	0.833	A BB	69971.	28.613	UG/L	0.70
29	97	346	17:18	19	0.848	A BB	76191.	28.480	UG/L	0.69
30	78	343	17:09	19	0.841	A BB	200188.	23.326	UG/L	0.57
31	75	348	17:24	19	0.853	A BB	31832.	14.856	UG/L	0.36
32	63	375	18:45	19	0.919	A*BB	166695.	24.239	UG/L	0.59
33	173	409	20:27	19	1.002	A BB	41937.	30.272	UG/L	0.74
34	117	532	26:36	34	1.000	A BB	144254.	30.000	UG/L	0.73
35	43	362	18:06	34	0.680	A VB	9544.	146.019	UG/L	3.55
36	43	374	18:42	34	0.703	A BB	231952.	948.759	UG/L	23.05
37	164	472	23:36	34	0.887	A BB	78968.	36.739	UG/L	0.89
38	83	468	23:24	34	0.880	A BV	147308.	33.457	UG/L	0.81
39	92	507	25:21	34	0.953	A BB	209432.	36.529	UG/L	0.89
40	112	535	26:45	34	1.006	A BB	214071.	36.167	UG/L	0.88
41	106	586	29:18	34	1.102	A BB	100318.	34.759	UG/L	0.84
42	104	600	30:00	34	1.128	A*VB	5492.	104.140	UG/L	2.53
43	106	625	31:15	34	1.175	A*BV	8878.	131.160	UG/L	3.19
44	106	625	31:15	34	1.175	A*BV	8878.	262.319	UG/L	6.37
45	146	815	40:45	34	1.532	A*BB	78428.	19.229	UG/L	0.47
46	146	848	42:24	34	1.594	A*VV	70788.	18.437	UG/L	0.45
47	146	857	42:51	34	1.611	A*VB	106333.	22.777	UG/L	0.55
48	96	376	18:48	34	0.707	A BB	333734.	37.916	UG/L	0.92
49	95	647	32:21	34	1.216	A BB	115744.	23.359	UG/L	0.57

RIC DATA: PU7437 #1 SCANS 1 TO 1000
08/28/87 15:47:00 CALI: PU7437 #2
SAMPLE: 100UL #BSA 0819785(2.1880GMS=>5MLS MEOH)=>5MLS H2O MAT.SPIKE DUP
CONDS.:
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



TCA FINISHED, 4 FOUND
FINISHED AT: 9/07/87 15:13:05

QUANTITATION REPORT FILE: PU7437

DATA: PU7437.TI
08/28/87 15:47:00
SAMPLE: 100UL #BSA 0819785(2.1880GMS=>5MLS MEOH)=>5MLS H2O MAT. SPIKE DUP
CONDS. :
SUBMITTED BY: NJDEP ANALYST: SS

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

No	NAME
1	BROMOCHRLOROMETHANE (INT. STD.)
2	1,2-DICHLOROETHANE D4 (SURR. STD)
3	CHLOROMETHANE
4	BROMOMETHANE
5	VINYL CHLORIDE
6	CHLOROETHANE
7	METHYLENE CHLORIDE (C)
8	ACETONE
9	CARBON DISULPHIDE
10	1,1-DICHLOROETHENE (B)
11	1,1-DICHLOROETHANE(E)
12	TRANS -1,2-DICHLOROETHENE (D)
13	CHLOROFORM
14	1,2-DICHLOROETHANE(H)
15	TRICHLOROFLUOROMETHANE
16	DICHLOROFLUOROMETHANE
17	ACROLEIN
18	ACRYLONITRILE
19	1,4-DIFLUOROBENZENE(INT. STD)
20	2-BUTANONE (MEK)
21	1,1,1-TRICHLOROETHANE (I)
22	CARBON TETRACHLORIDE(J)
23	VINYL ACETATE
24	BROMODICHLOROMETHANE(L)
25	1,2-DICHLOROPROPANE(X)
26	TRANS 1,3-DICHLOROPROPENE (AA)
27	TRICHLOROETHENE(K)
28	DIBROMOCHLOROMETHANE(O)
29	1,1,2-TRICHROETHANE(M)
30	BENZENE(BEN)
31	CIS-1,3-DICHLOROPROPENE(Z)
32	2-CHLOROETHYLVINYLETHER(NN)
33	BROMOFORM(P)
34	CHLOROBENZENE-D5 (INT. STD)
35	2-HEXANONE(MBK)
36	4-METHYL-2-PENTANONE(MIBK)
37	TETRACHLOROETHENE(N)
38	ETHANE, 1,1,2,2-TETRACHLORO-
39	TOLUENE(TOL)
40	CHLOROBENZENE(Q)
41	ETHYLBENZENE(EB)
42	STYRENE
43	META-XYLENE
44	ORTHO/PARA-XYLENE
45	META-DICHLOROBENZENE(MDCB)
46	ORTHO-DICHLOROBENZENE (ODCB)
47	PARA-DICHLOROBENZENE(PDCB)
48	FLUOROBENZENE (SURR.STD)
49	BROMOFLUORBENZENE(SURR. STD)

No	M/Z	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	128	254	12:42	1	1.000	A BB	35147.	30.000	UG/L	0.92
2	65	370	18:30	1	1.457	A BB	67389.	28.605	UG/L	0.87
3	50	27	1:21	1	0.106	A VB	575840.	145.617	UG/L	4.45
4	94	38	1:54	1	0.150	A BB	26082.	73.496	UG/L	2.24
5	62	49	2:27	1	0.193	A BB	45028.	26.126	UG/L	0.80
6	64	69	3:27	1	0.272	A BB	53740.	30.164	UG/L	0.92
7	84	114	5:42	1	0.449	A BB	89080.	28.828	UG/L	0.88
~~8~~	~~43~~	~~92~~	~~4:36~~	~~1~~	~~0.362~~	~~A BB~~	~~4958.~~	~~1.457~~	~~UG/L~~	~~0.04~~
~~9~~	~~76~~	~~80~~	~~4:00~~	~~1~~	~~0.315~~	~~A BB~~	~~354.~~	~~13.482~~	~~UG/L~~	~~0.41~~
10	96	244	12:12	1	0.961	A BB	69450.	28.188	UG/L	0.86
11	63	293	14:39	1	1.154	A BB	95441.	30.938	UG/L	0.94
12	96	326	16:18	1	1.283	A BB	42414.	27.324	UG/L	0.83
13	83	342	17:06	1	1.346	A BB	146552.	31.920	UG/L	0.97
14	62	373	18:39	1	1.469	A BB	120438.	24.203	UG/L	0.74

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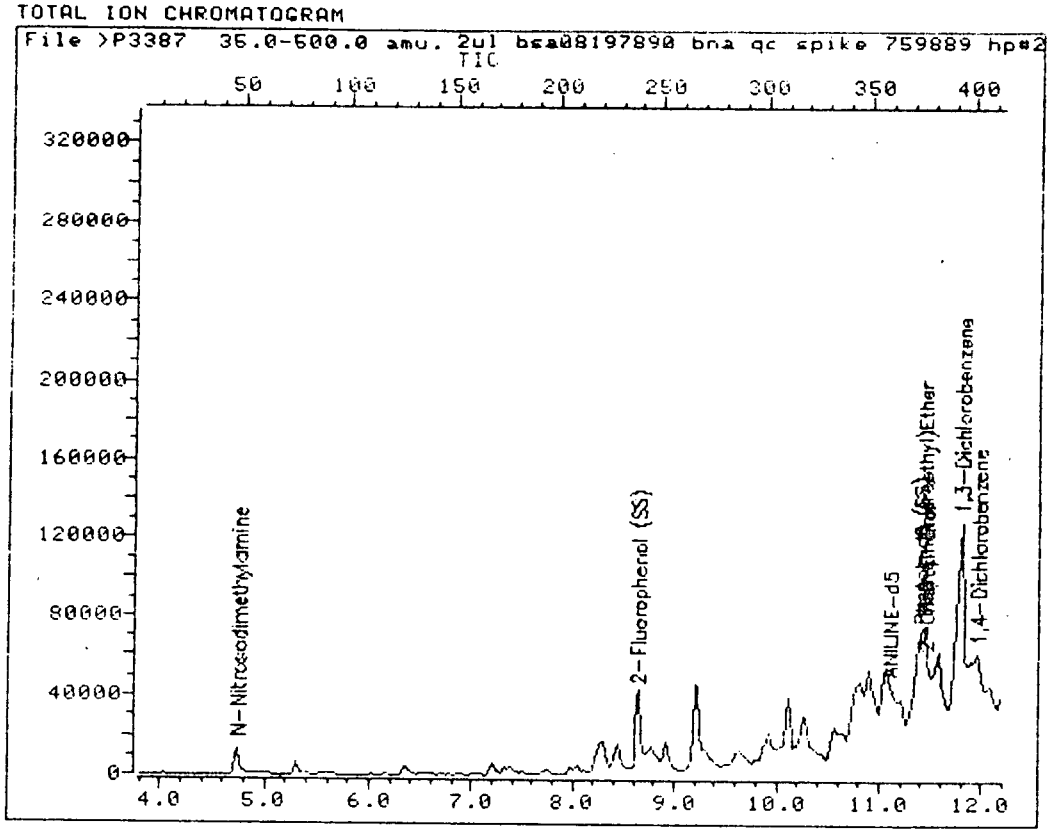
~~18~~	~~53~~	~~133~~	~~6:39~~	~~1~~	~~0.524~~	~~A BB~~	~~313.~~	~~111.092 UG/L~~	~~3.39~~
19	114	542	27:06	19	1.000	A BB	155770.	30.000 UG/L	0.92
~~20~~	~~43~~	~~157~~	~~7:51~~	~~19~~	~~0.290~~	~~A BB~~	~~705394.~~	~~1160.530 UG/L~~	~~35.43~~
21	97	409	20:27	19	0.755	A BB	39380.	44.344 UG/L	1.35
22	117	420	21:00	19	0.775	A VB	32816.	59.923 UG/L	1.83
~~23~~	~~43~~	~~251~~	~~12:33~~	~~19~~	~~0.463~~	~~A BV~~	~~92336.~~	~~98.577 UG/L~~	~~3.01~~
24	83	440	22:00	19	0.812	A BB	81028.	36.193 UG/L	1.11
25	63	483	24:09	19	0.891	A BB	74547.	62.202 UG/L	1.90
26	75	496	24:48	19	0.915	A BB	38954.	28.980 UG/L	0.88
27	130	505	25:15	19	0.932	A BB	92162.	37.173 UG/L	1.13
28	129	514	25:42	19	0.948	A BB	79029.	37.177 UG/L	1.14
29	97	517	25:51	19	0.954	A BV	74808.	32.168 UG/L	0.98
30	78	514	25:42	19	0.948	A BB	217476.	29.152 UG/L	0.89
31	75	519	25:57	19	0.958	A BB	33120.	17.782 UG/L	0.54
32	63	530	26:30	19	0.978	A*BB	121486.	20.322 UG/L	0.62
33	173	544	27:12	19	1.004	A BB	49586.	41.177 UG/L	1.26
34	117	605	30:15	34	1.000	A BB	124202.	30.000 UG/L	0.92
~~35~~	~~43~~	~~354~~	~~17:42~~	~~34~~	~~0.585~~	~~A BB~~	~~2103.~~	~~37.370 UG/L~~	~~1.14~~
~~36~~	~~43~~	~~369~~	~~18:27~~	~~34~~	~~0.610~~	~~A BB~~	~~2081.~~	~~9.886 UG/L~~	~~0.30~~
37	164	569	28:27	34	0.940	A BB	74057.	40.017 UG/L	1.22
38	83	568	28:24	34	0.939	A BB	154506.	40.757 UG/L	1.24
39	92	589	29:27	34	0.974	A BV	192043.	38.903 UG/L	1.19
40	112	608	30:24	34	1.005	A BB	198029.	38.858 UG/L	1.19
41	106	651	32:33	34	1.076	A BB	106585.	42.892 UG/L	1.31
~~42~~	~~104~~	~~599~~	~~29:57~~	~~34~~	~~0.990~~	~~A BB~~	~~5364.~~	~~118.133 UG/L~~	~~3.61~~
~~43~~	~~106~~	~~630~~	~~31:30~~	~~34~~	~~1.041~~	~~A*VB~~	~~3883.~~	~~66.627 UG/L~~	~~2.03~~
~~44~~	~~106~~	~~630~~	~~31:30~~	~~34~~	~~1.041~~	~~A*VB~~	~~3883.~~	~~133.254 UG/L~~	~~4.07~~
45	146	874	43:42	34	1.445	A*BB	119384.	33.995 UG/L	1.04
46	146	904	45:12	34	1.494	A*BV	121212.	36.667 UG/L	1.12
47	146	912	45:36	34	1.507	A*VB	92120.	22.918 UG/L	0.70
48	96	530	26:30	34	0.876	A VV	299780.	39.557 UG/L	1.21
49	95	639	31:57	34	1.056	A BB	1181.	0.277 UG/L	0.01

TOTAL ION CHROMATOGRAM



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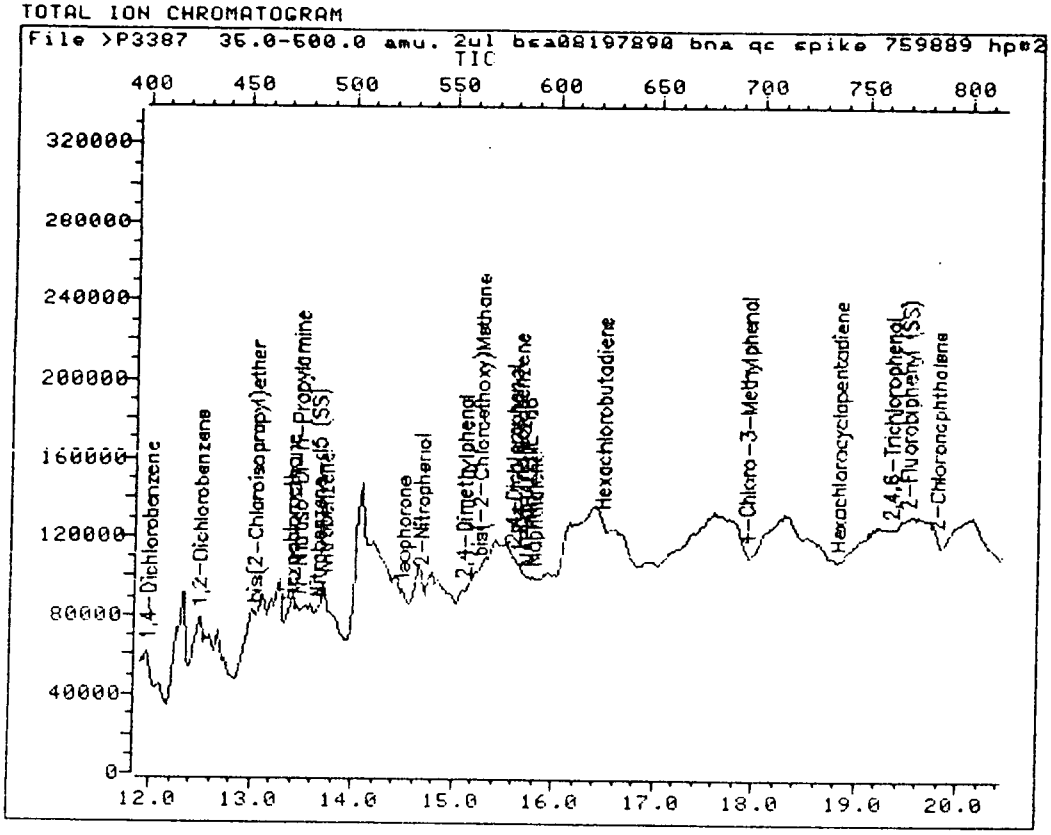
Name: 2ul bsa08197890 bna
Misc: qc spike 759889 hp#2 10ul bn488=>1ml BTL#57

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870909 18:03
Injected at: 870909 17:16

TIC page 1 of 5

TOTAL ION CHROMATOGRAM



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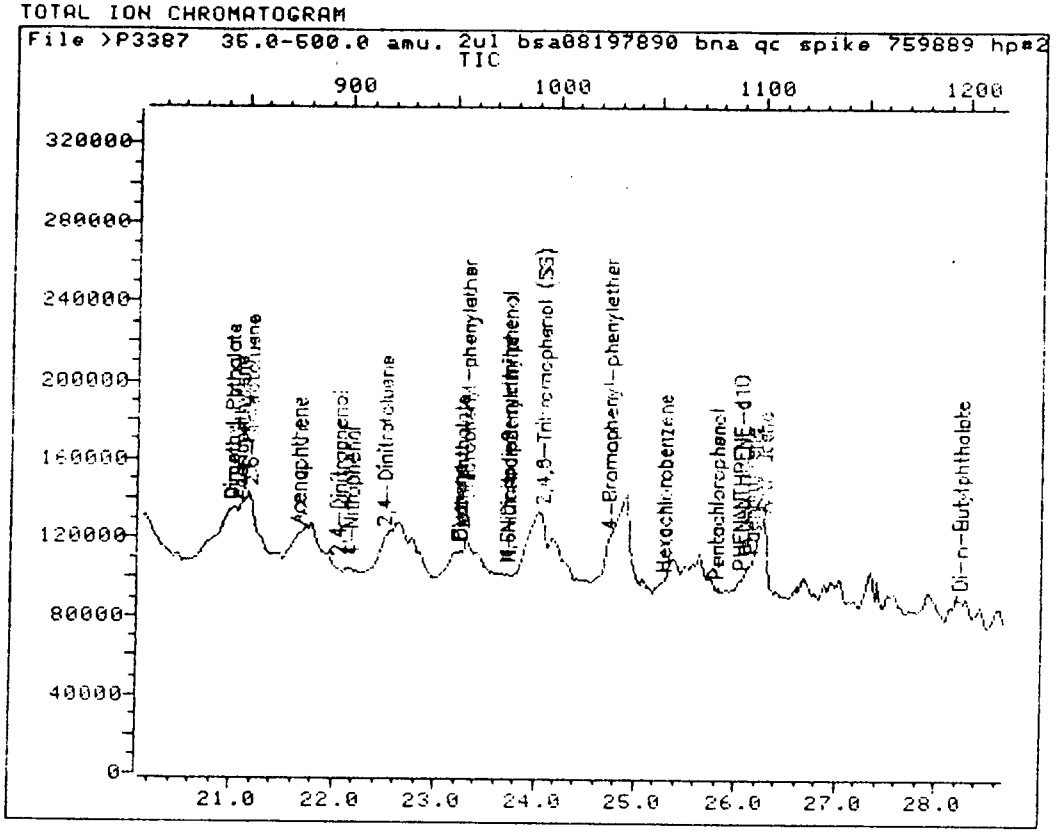
Misc: qc spike 759889 hp#2 10ul bn488=>1ml BTL#57

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870909 18:03
Injected at: 870909 17:16

TIC page 2 of 5

TOTAL ION CHROMATOGRAM



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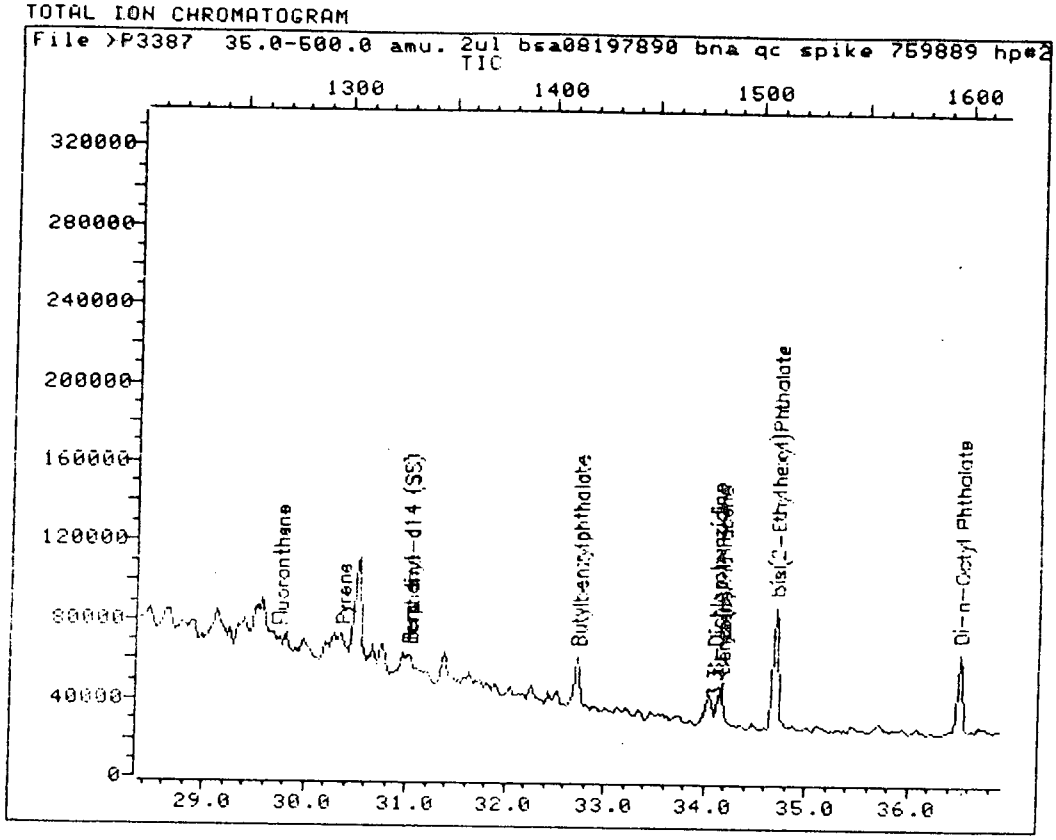
Name: 2ul bsa08197890 bna
Misc: qc spike 759889 hp#2 10ul bn488=>1ml BTL#57

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870909 18:03
Injected at: 870909 17:16

TIC page 3 of 5

TOTAL ION CHROMATOGRAM



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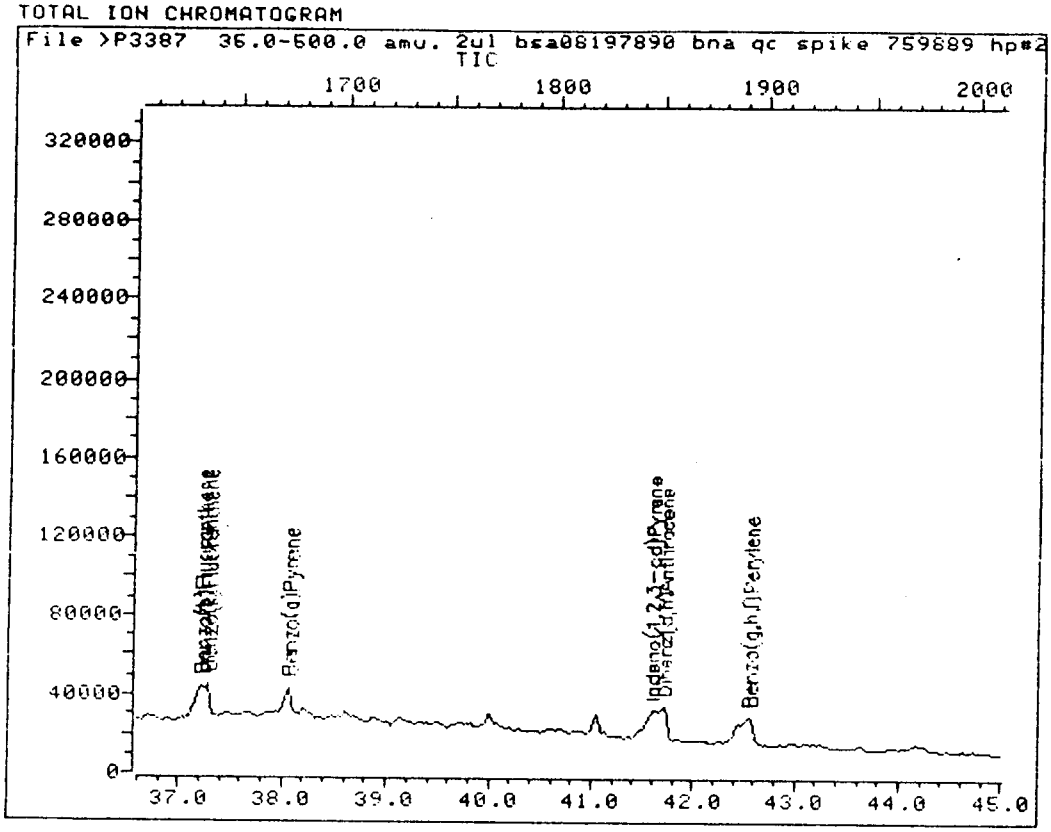
Name: 2ul bsa08197890 bna
Misc: qc spike 759889 hp#2 10ul bn488=>1ml BTL#57

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870909 18:03
Injected at: 870909 17:16

TIC page 4 of 5

TOTAL ION CHROMATOGRAM



Data File: >P3387::B2 Quant Output File: ^P3387::QT
Name: 2ul bsa08197890 bna
Misc: qc spike 759889 hp#2 10ul bn488=>1ml BTL#57

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870909 18:03
Injected at: 870909 17:16

TIC page 5 of 5

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 870909 18:03
Output File: ^P3387::QT Injected at: 870909 17:16
Data File: >P3387::B2 Dilution Factor: 1.00000
Name: 2ul bsa08197890 bna
Misc: qc spike 759889 hp#2 10ul bn488=>1ml BTL#57

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.10	360	10602M	42.85	ug/mL	
2)	N-Nitrosodimethylamine	4.74	48	17067	123.92	ug/mL	72
3)	2-Fluorophenol (SS)	8.64	239	42497	251.90	ug/mL	57
4)	Phenol	11.43	376	30239	119.30	ug/mL	80
5)	bis(-2-Chloroethyl)Ether	11.43	376	18721	88.22	ug/mL	42
6)	Phenol-d6 (SS)	11.39	374	47969	204.78	ug/mL	86
7)	2-Chlorophenol	11.45	377	17471	84.51	ug/mL	59
8)	1,3-Dichlorobenzene	11.80	394	11664	55.41	ug/mL	90
9)	1,4-Dichlorobenzene	11.96	402	34279	148.01	ug/mL	86
10)	1,2-Dichlorobenzene	12.47	427	21473	103.88	ug/mL	97
11)	bis(2-Chloroisopropyl)ether	13.02	454	67123	99.70	ug/mL	59
12)	N-Nitroso-Di-n-Propylamine	13.45	475	14725	71.07	ug/mL	57
13)	Hexachloroethane	13.37	471	5281	51.90	ug/mL	89
14)	*NAPHTHALENE-d8	15.73	586	18549	41.04	ug/mL	69
15)	Nitrobenzene-d5 (SS)	13.64	484	22404	86.19	ug/mL	69
16)	Nitrobenzene	13.70	487	36681	122.47	ug/mL	62
17)	Isophorone	14.48	525	10599	18.55	ug/mL	35
18)	2-Nitrophenol	14.66	534	5438M	75.27	ug/mL	
19)	2,4-Dimethylphenol	15.09	555	12068	63.25	ug/mL	93
20)	bis(-2-Chloroethoxy)Methane	15.25	563	22679	77.23	ug/mL	61
21)	2,4-Dichlorophenol	15.58	579	10433M	53.18	ug/mL	
22)	1,2,4-Trichlorobenzene	15.64	582	11510M	63.72	ug/mL	87
23)	Naphthalene	15.79	589	58425M	104.77	ug/mL	
24)	Hexachlorobutadiene	16.46	622	1540	11.00	ug/mL	94
25)	4-Chloro-3-Methylphenol	17.92	693	10931M	43.09	ug/mL	
26)	Hexachlorocyclopentadiene	18.82	737	1745M	12.44	ug/mL	
27)	2,4,6-Trichlorophenol	19.33	762	8130	58.01	ug/mL	89
28)	2-Chloronaphthalene	19.78	784	12513	35.00	ug/mL	80
29)	2-Fluorobiphenyl (SS)	19.49	770	16692	61.83	ug/mL	97
30)	Dimethyl Phthalate	20.99	843	12374	29.00	ug/mL	70
31)	Acenaphthylene	21.07	847	19930M	40.14	ug/mL	29
32)	Acenaphthene	21.65	875	20665	61.00	ug/mL	85
33)	2,4-Dinitrophenol	22.04	894	621M	17.83	ug/mL	
34)	4-Nitrophenol	22.16	900	2967M	32.76	ug/mL	
35)	2,4-Dinitrotoluene	22.49	916	8828M	84.02	ug/mL	
36)	2,6-Dinitrotoluene	21.17	852	2494	21.53	ug/mL	34
37)	Diethylphthalate	23.25	953	16553	36.96	ug/mL	95
38)	4-Chlorophenyl-phenylether	23.31	956	3793M	19.62	ug/mL	
39)	Fluorene	23.23	952	24124M	72.76	ug/mL	
40)	2,4,6-Tribromophenol (SS)	24.07	993	5167	36.52	ug/mL	77
41)	*PHENANTHRENE-d10	26.04	1089	10760M	41.02	ug/mL	87
42)	4,6-Dinitro-2-methylphenol	23.22	976	1581M	29.22	ug/mL	

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	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	4-Bromophenyl-phenylether	24.72	1025	3450	32.45	ug/mL	70
45)	Hexachlorobenzene	25.28	1052	4738	29.36	ug/mL	81
46)	Pentachlorophenol	25.79	1077	3406	52.01	ug/mL	94
47)	Phenanthrene	26.14	1094	37540M	116.61	ug/mL	49
48)	Anthracene	26.27	1100	16169M	47.85	ug/mL	45
49)	Di-n-Butylphthalate	28.24	1196	31673	86.83	ug/mL	87
50)	Fluoranthene	29.74	1269	29454	99.13	ug/mL	79
51)	Terphenyl-d14 (SS)	31.01	1331	24981	129.84	ug/mL	39
52)	Benzidine	31.01	1331	2408M	33.67	ug/mL	
53)	Pyrene	30.36	1299	31364	104.27	ug/mL	39
54)	Butylbenzylphthalate	32.72	1414	20709	109.94	ug/mL	86
55)	3,3'-Dichlorobenzidine	34.10	1481	2676	25.16	ug/mL	99
56)	Benzo(a)Anthracene	34.16	1484	30495	110.08	ug/mL	74
57)	bis(2-Ethylhexyl)Phthalate	34.70	1510	53723	216.69	ug/mL	82
58)	Chrysene	34.16	1484	30495	114.14	ug/mL	98
59)	Di-n-Octyl Phthalate	36.50	1598	59223	130.91	ug/mL	100
60)	Benzo(b)Fluoranthene	37.22	1633	47451M	148.14	ug/mL	98
61)	Benzo(k)Fluoranthene	37.29	1636	26041M	107.74	ug/mL	97
62)	Benzo(a)Pyrene	38.07	1674	33234	109.90	ug/mL	99
63)	Indeno(1,2,3-cd)Pyrene	41.60	1846	53117	146.07	ug/mL	99
64)	Dibenz(a,h)Anthracene	41.72	1852	40109	111.85	ug/mL	87
65)	Benzo(g,h,i)Perylene	42.56	1893	43548	117.63	ug/mL	77

* Compound is ISTD

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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab No. 759889
Date Collected: 8/19/87
Date Received: 8/20/87
Sample ID: GW #1 QC Spike Dup.
Factor: 500
Collected By: CL 99

CAS Number		% Recovery
108-95-2	Phenol	49
106-46-7	1,4-Dichlorobenzene	26
78-59-1	Isophorone	80
91-58-7	2-Chlornaphthalene(1)	0
606-20-2	2,6-Dinitrotoluene(1)	0
7005-72-3	4-Chlorophenyl-phenlyether(1)	0
101-55-3	4-Bromophenyl-phenylether(1)	0
117-81-7	bis(2-Ethylhexyl)phthalate	**

**: Internal standard interference prevented % recovery calculation.

(1) Compounds not recovered from matrix.

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S.C. McLendon, P.E.
Laboratory Director

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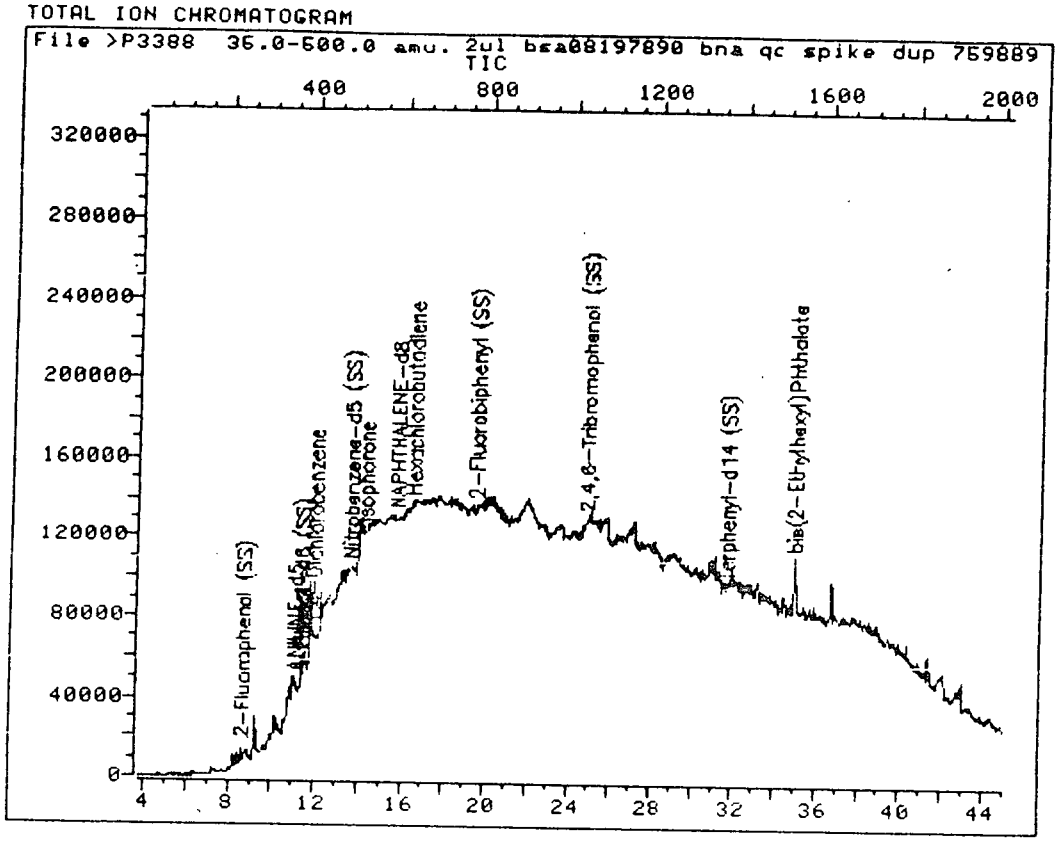
TOTAL ION CHROMATOGRAM



Data File: >P3388::B2 Quant Output File: ^P3388::QT
Name: 2ul bsa08197890 bna
Misc: qc spike dup 759889 hp#2 10ul bn488=>1ml BTL#58

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

Operator ID: GLENN
Quant Time: 870909 19:00
Injected at: 870909 18:13

QUANT REPORT

Operator ID: GLENN
Output File: ^P3388::QT
Data File: >P3388::B2
Name: 2ul bsa08197890 bna
Misc: qc spike dup 759889 hp#2 10ul bn488=>1ml

Quant Rev: 6
Quant Time: 870909 19:00
Injected at: 870909 18:13
Dilution Factor: 1.00000

BTL#58

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870909 17:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.08	359	7032M	42.85	ug/mL	
3)	2-Fluorophenol (SS)	8.63	239	17170	153.44	ug/mL	40
4)	Phenol	11.39	374	8301	49.38	ug/mL	91
6)	Phenol-d6 (SS)	11.34	372	12462	80.21	ug/mL	69
9)	1,4-Dichlorobenzene	11.92	400	3966	25.82	ug/mL	82
14)	*NAPHTHALENE-d8	15.72	586	2177	41.04	ug/mL	61
15)	Nitrobenzene-d5 (SS)	13.59	482	2260M	74.08	ug/mL	
17)	Isophorone	14.23	513	5390M	80.39	ug/mL	73
24)	Hexachlorobutadiene	16.48	623	460M	27.99	ug/mL	
29)	2-Fluorobiphenyl (SS)	19.51	771	1816M	57.32	ug/mL	
40)	2,4,6-Tribromophenol (SS)	24.84	1031	450M	27.10	ug/mL	
51)	Terphenyl-d14 (SS)	31.66	1363	11144M	11144.00	COUNTS	
57)	bis(2-Ethylhexyl)Phthalate	34.95	1523	56130	56130.00	COUNTS	87

* Compound is ISTD

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New Jersey D.E.P.
65 Prospect St.
Trenton, NJ 08618

Sample Lab Number 759869
Date Collected: 8/19/87 Date Received: 8/20/87
Sample I.D. Sample #Soil 1 QC Spike Factor: 5

Scan #	C.A.S. Number		% Recovery	C.A.S. Number		ug/l	Scan #
	65-75-9	N-Nitrosodimethylamine	50	83-32-9	Acenaphthene	74	
	108-95-2	Phenol	50	51-28-5	2,4-Dinitrophenol	90	
	111-44-4	bis(2-Chloroethyl)ether	73	100-02-7	4-Nitrophenol	113	
	95-57-8	2-Chloropheonol	59	121-14-2	2,4-Dinitrotoluene	84	
	541-73-1	1,3-Dichlorobenzene	62	606-20-2	2,6-Dinitrotoluene	79	
	106-46-7	1,4-Dichlorobenzene	59	84-66-2	Diethylphthalate	66	
	95-50-1	1,2-Dichlorobenzene	63	7005-72-3	4-Chlorophenyl-phenylether	59	
	39638329	bis(2-chloroisopropyl)ether	72	86-73-7	Fluorene	92	
	621-64-7	N-Nitroso-di-n-propylamine	77	534-52-1	4,6-Dinitro-2-Methylphenol	54	
	67-72-1	Hexachloroethane	45	86-30-6	N-Nitrososdiphenylamine 1)	48	
	98-95-3	Nitrobenzene	63				
	78-59-1	Isophorone	75	101-55-3	4-Bromophenyl-phenylether	53	
	88-75-5	2-Nitrophenol	100	118-74-1	Hexachlorobenzene	58	
	105-67-9	2,4-Dimethylphenol	61	87-86-5	Pentachlorophenol	172	
				85-01-8	Phenanthrene	77	
	111-91-1	bis(2-Chloroethoxy)Methane	77	120-12-7	Anthracene	52	
	120-83-2	2,4-Dichlorophenol	60	84-74-2	Di-n-Butylphthalate	94	
	120-82-1	1,2,4-Trichlorobenzene	73	206-44-0	Fluoranthene	89	
	91-20-3	Naphthalene	65	129-00-0	Pyrene	88	
	87-68-3	Hexachlorobutadiene	59	85-68-7	Butylbenzylphthalate	77	
	59-50-7	4-Chloro-3-methylphenol	68	91-94-1	3,3'-Dichlorobenzidine	44	
				56-55-3	Benzo(a)Anthracene	86	
	77-47-4	Hexachlorocyclopentadiene	8	117-81-7	bis(2-Ethylhexyl)Phthalate	150	
	88-06-2	2,4,6-Trichlorophenol	82	218-01-9	Chrysene	91	
				117-84-0	Di-n-Octyl Phthalate	73	
	91-58-7	2-Chloronaphthalene	73	205-99-2	Benzo(b)Fluoranthene	73	
				207-08-9	Benzo(k)Fluoranthene	40	
	131-11-3	Dimethyl Phthalate	72	50-32-8	Benzo(a)Pyrene	45	
	208-96-8	Acenaphthylene	72	193-39-5	Indeno(1,2,3-cd)Pyrene	53	
				53-70-3	Dibenzo(a,h)Anthracene	45	
				191-24-2	Benzo(g,h,i)Perylene	49	
				92-87-5	Benzidine	4	

(1) - Cannot be separated from diphenylamine

* Compound failed to meet method required recovery limits.

Date Reported: 9/18/87

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S.C. McLendon, P.E.
Laboratory Director

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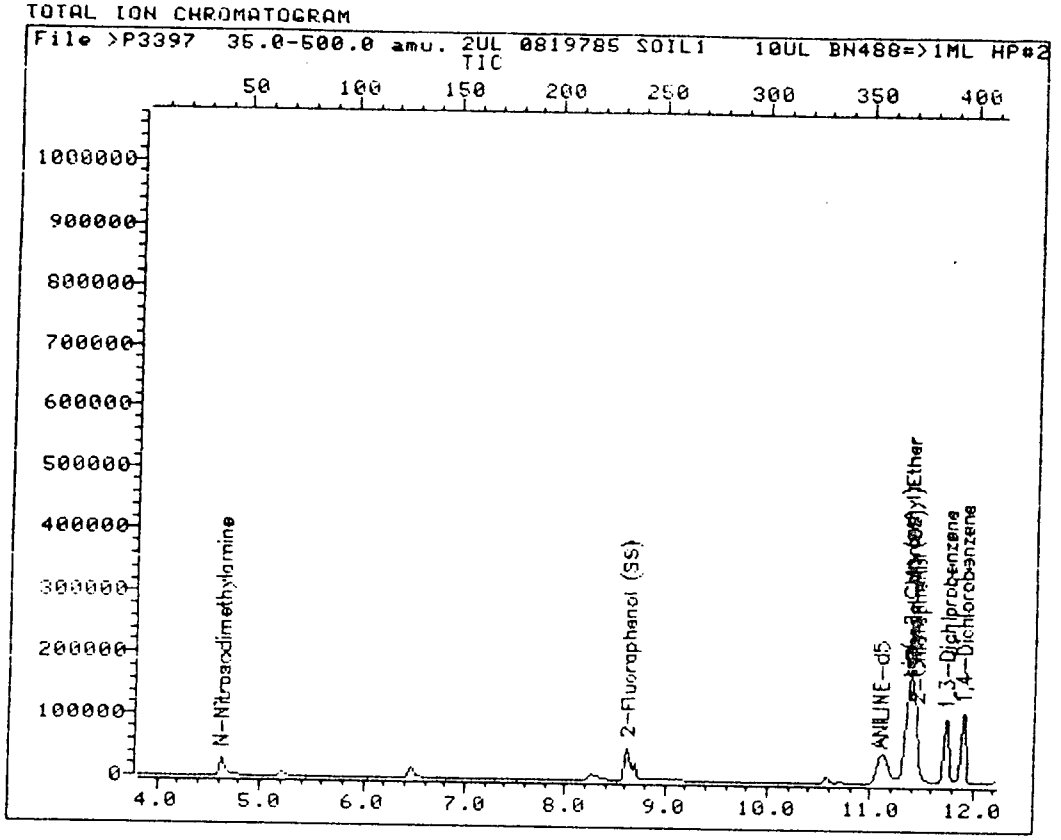
TOTAL ION CHROMATOGRAM



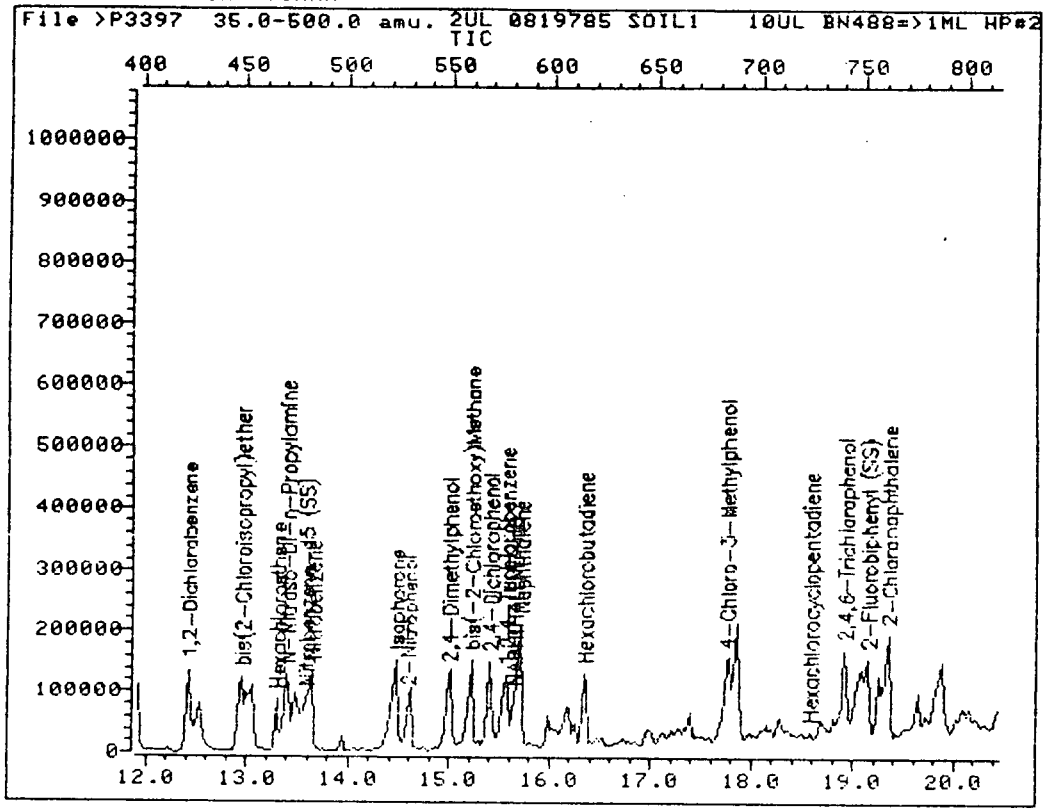
Data File: >P3397::B1 Quant Output File: ^P3397::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 QC SPIKE 759869 BNA BTL#52

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

Operator ID: GLENN
Quant Time: 870910 17:23
Injected at: 870910 16:36

TIC page 1 of 5

TOTAL ION CHROMATOGRAM



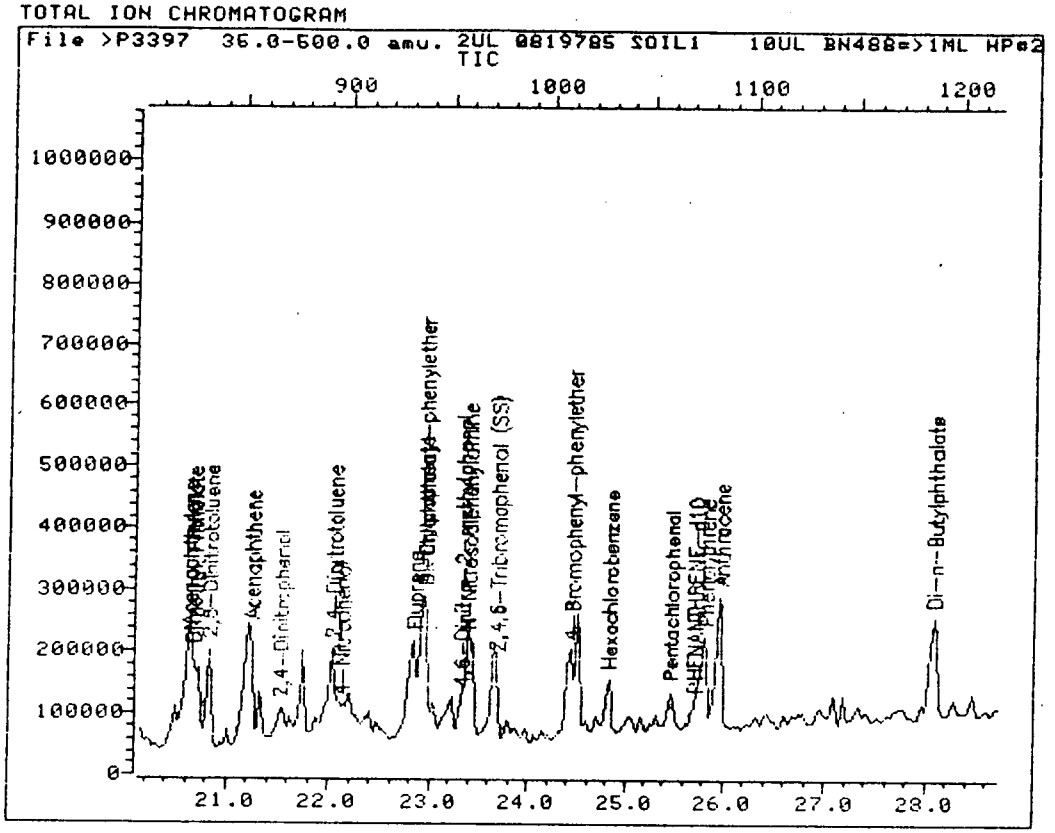
Data File: >P3397::B1 Quant Output File: ^P3397::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 QC SPIKE 759869 BNA BTL#52

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

Operator ID: GLENN
Quant Time: 870910 17:23
Injected at: 870910 16:36

TIC page 2 of 5

TOTAL ION CHROMATOGRAM



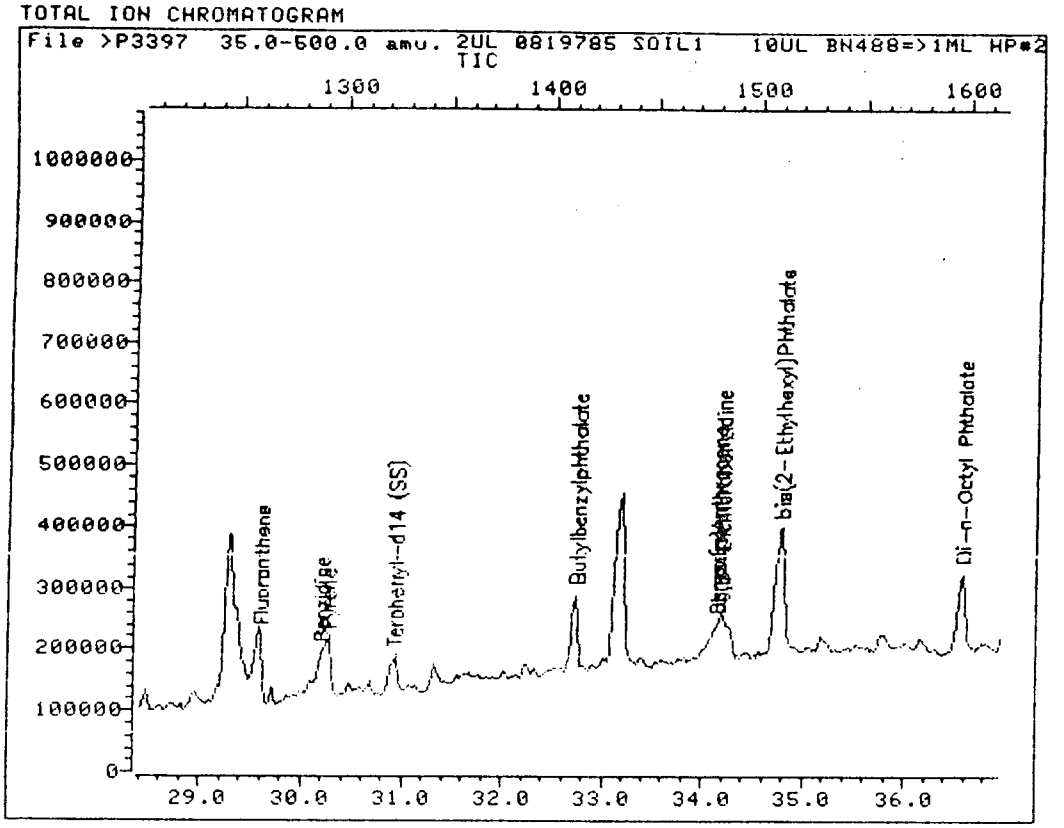
Data File: >P3397::B1 Quant Output File: ^P3397::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 QC SPIKE 759869 BNA BTL #52

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

Operator ID: GLENN
Quant Time: 870910 17:23
Injected at: 870910 16:36

TIC page 3 of 5

TOTAL ION CHROMATOGRAM



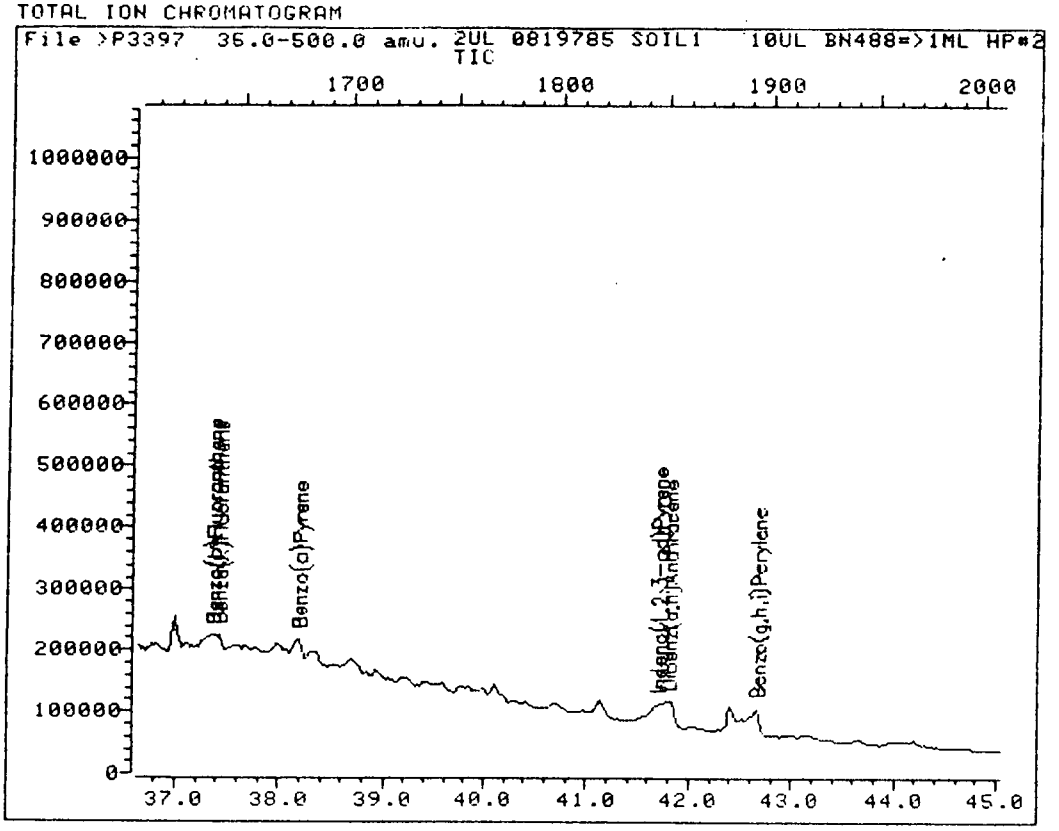
Data File: >P3397::B1 Quant Output File: ^P3397::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 QC SPIKE [illegible]

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: [illegible]

Operator ID: GLENN
Quant Time: [illegible]
Injected at: [illegible]

TIL page 4 of 9

TOTAL ION CHROMATOGRAM



Data File: >P3397::B1 Quant Output File: ^P3397::QT
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 QC SPIKE 759869 BNA BTL#52

Id File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

Operator ID: GLENN
Quant Time: 870910 17:23
Injected at: 870910 16:36

TIC page 5 of 5

QUANT REPORT

Operator ID: GLENN Quant Rev: 6 Quant Time: 870910 17:23
Output File: ^P3397::QT Injected at: 870910 16:36
Data File: >P3397::B1 Dilution Factor: 1.00000
Name: 2UL 0819785 SOIL1
Misc: 10UL BN488=>1ML HP#2 QC SPIKE 759869 BNA BTL#52

ID File: ID_625::ME
Title: EPA METHOD 625
Last Calibration: 870910 15:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*ANILINE-d5	11.07	357	28330M	42.85	ug/mL	
2)	N-Nitrosodimethylamine	4.62	40	44960	99.35	ug/mL	91
3)	2-Fluorophenol (SS)	8.61	236	55486	118.52	ug/mL	53
4)	Phenol	11.40	373	95763	100.03	ug/mL	80
5)	bis(-2-Chloroethyl)Ether	11.36	371	94378	146.76	ug/mL	82
6)	Phenol-d6 (SS)	11.38	372	89298	125.66	ug/mL	87
7)	2-Chlorophenol	11.44	375	65295	117.52	ug/mL	51
8)	1,3-Dichlorobenzene	11.73	389	73206	124.70	ug/mL	94
9)	1,4-Dichlorobenzene	11.89	397	74670	117.48	ug/mL	88
10)	1,2-Dichlorobenzene	12.42	423	75166	126.39	ug/mL	93
11)	bis(2-Chloroisopropyl)ether	12.95	449	222398	144.31	ug/mL	45
12)	N-Nitroso-Di-n-Propylamine	13.40	471	97016	153.21	ug/mL	79
13)	Hexachloroethane	13.30	466	24745	89.29	ug/mL	92
14)	*NAPHTHALENE-d8	15.65	581	61797	41.04	ug/mL	61
15)	Nitrobenzene-d5 (SS)	13.59	480	70754	79.17	ug/mL	77
16)	Nitrobenzene	13.65	483	124692	126.53	ug/mL	63
17)	Isophorone	14.46	523	282008	150.82	ug/mL	36
18)	2-Nitrophenol	14.59	529	50843	199.59	ug/mL	51
19)	2,4-Dimethylphenol	14.99	549	72383	121.79	ug/mL	94
20)	bis(-2-Chloroethoxy)Methane	15.22	560	150198	154.95	ug/mL	81
21)	2,4-Dichlorophenol	15.40	569	71103	120.44	ug/mL	91
22)	1,2,4-Trichlorobenzene	15.57	577	77192	145.60	ug/mL	94
23)	Naphthalene	15.71	584	240453M	130.20	ug/mL	47
24)	Hexachlorobutadiene	16.34	615	41499	118.21	ug/mL	91
25)	4-Chloro-3-Methylphenol	17.76	684	112480	135.95	ug/mL	85
26)	Hexachlorocyclopentadiene	18.57	724	4138	16.03	ug/mL	90
27)	2,4,6-Trichlorophenol	18.92	741	64793	163.50	ug/mL	98
28)	2-Chloronaphthalene	19.35	762	172990	146.58	ug/mL	93
29)	2-Fluorobiphenyl (SS)	19.15	752	101915	110.73	ug/mL	97
30)	Dimethyl Phthalate	20.66	826	208397	144.22	ug/mL	73
31)	Acenaphthylene	20.62	824	246154	143.98	ug/mL	34
32)	Acenaphthene	21.24	854	169804	148.68	ug/mL	95
33)	2,4-Dinitrophenol	21.53	868	18535M	179.65	ug/mL	
34)	4-Nitrophenol	22.12	897	53221	225.03	ug/mL	71
35)	2,4-Dinitrotoluene	22.04	893	66049	168.64	ug/mL	59
36)	2,6-Dinitrotoluene	20.83	834	57294	157.18	ug/mL	43
37)	Diethylphthalate	22.94	937	204509	132.00	ug/mL	97
38)	4-Chlorophenyl-phenylether	22.94	937	68117	118.93	ug/mL	75
39)	Fluorene	22.84	932	193838	183.70	ug/mL	85
40)	2,4,6-Tribromophenol (SS)	23.68	973	44415	167.04	ug/mL	78
41)	*PHENANTHRENE-d10	25.71	1072	59572	41.02	ug/mL	75
42)	4,6-Dinitro-2-methylphenol	23.33	956	22678M	107.15	ug/mL	
43)	N-Nitrosodiphenylamine	23.39	959	106028	96.70	ug/mL	90

	Compound	R.T.	Scan#	Area	Conc	Units	q
44)	4-Bromophenyl-phenylether	24.44	1010	52826	105.98	ug/mL	95
45)	Hexachlorobenzene	24.83	1029	76056	116.34	ug/mL	85
46)	Pentachlorophenol	25.47	1060	32427M	343.48	ug/mL	95
47)	Phenanthrene	25.82	1077	276826	154.24	ug/mL	49
48)	Anthracene	25.96	1084	197067	103.41	ug/mL	45
49)	Di-n-Butylphthalate	28.08	1187	401627	188.51	ug/mL	85
50)	Fluoranthene	29.60	1261	269551	178.22	ug/mL	83
51)	Terphenyl-d14 (SS)	30.92	1325	112964	118.63	ug/mL	40
52)	Benzidine	30.20	1290	1902M	7.37	ug/mL	
53)	Pyrene	30.26	1293	267833	176.03	ug/mL	61
54)	Butylbenzylphthalate	32.74	1413	167412	154.47	ug/mL	78
55)	3,3'-Dichlorobenzidine	34.18	1483	35544	87.44	ug/mL	93
56)	Benzo(a)Anthracene	34.14	1481	209538	172.19	ug/mL	74
57)	bis(2-Ethylhexyl)Phthalate	34.78	1512	418106	300.70	ug/mL	85
58)	Chrysene	34.14	1481	209538	181.17	ug/mL	93
59)	Di-n-Octyl Phthalate	36.58	1599	333900	145.06	ug/mL	100
60)	Benzo(b)Fluoranthene	37.37	1637	187942M	145.69	ug/mL	93
61)	Benzo(k)Fluoranthene	37.43	1640	67730M	79.53	ug/mL	95
62)	Benzo(a)Pyrene	38.19	1677	118532	90.52	ug/mL	97
63)	Indeno(1,2,3-cd)Pyrene	41.71	1857	136930	105.47	ug/mL	75
64)	Dibenz(a,h)Anthracene	41.81	1852	98000	90.08	ug/mL	91
65)	Benzo(g,h,i)Perylene	42.67	1894	108465	98.39	ug/mL	89

* Compound is ISTD

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New Jersey DEP
65 Prospect Street
Trenton, NJ 08628

Lab No. 759870 MS
Sample No. BSA 0819785 MS
Sample I.D. Soil 1 Matrix Spike
Concentration: Low Dil Factor: 0.85
Date Ext.8/28/87 Date Anal. 9/11/87
Percent Moisture (Decanted) 41% Sonicator yes

C.A.S. Number		ug/kg
72-43-5	Methoxychlor	200U
53494-70-5	Endrin Ketone	40U
57-74-9	Chlordane	200U
8001-35-2	Toxaphene	400U
12674-11-2	Aroclor 1016	200U
11104-28-2	Aroclor 1221	200U
11141-16-5	Aroclor 1232	200U
534469-21-9	Aroclor 1242	200U
12672-29-6	Aroclor 1248	200U
11097-69-1	Aroclor 1254	400U
11096-82-5	Aroclor 1260	400U

Vi = Volume of extract injected (uL)
Vs = Volume of water extracted (mL)
Ws = Weight of sample extracted (g)
Vt = Volume of Total extract (mL)

Vs = Ws = 2.54 g Vt = 3 mL Vi = 5 uL

Date Reported: 9/30/87

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S.C. McLendon, P.E.
Laboratory Director

910

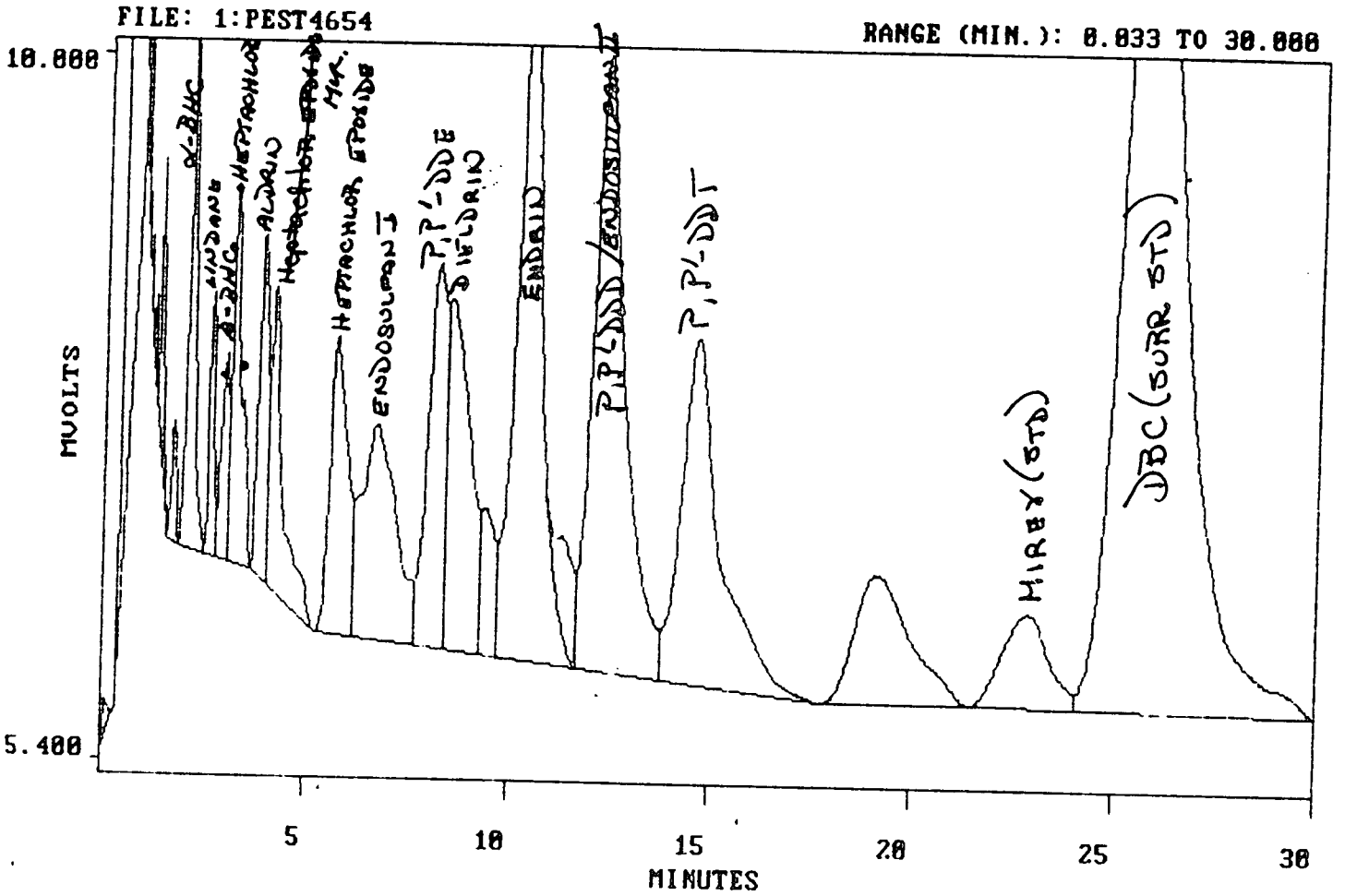
BSA0819785

MATRIX SPIKE

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time: 12:09:08 Date: FRI 11 SEP 87

Time: 11:29:15 Date: FRI 11 SEP 87
Method: PEST1



911

Channel # 4 Time:12:01:33 Date:FRI 11 SEP 87
Run #1 of 20

Sample name
Data file DAT352:PEST4654
Method name.....PEST1

Author.....URM
Instrument ...4
Column .....1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes .....SUPELCOPORT

Run time.....30.00 min. Delay time...0.00 min.
Acq time ....11:29:15 Acq. date....FRI 11 SEP 87
Start PW ...20.00 sec. End PW.....150.00 sec.
Actual PW....140.0
Slope sens ....0.70 uv/sec.

Area reject ...500
peaks found..24
Vol Inj..... 5.0 ul Sample amount..1.000
Conv factor...1.000

METHOD NOT CALIBRATED!

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref/Std
3.393	delta-BHC	0	
7.139	ENDOSULFAN I	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
27 978	DBC/METHOX/END.K	0	

Romanell 9/17/87

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.143			0.030	2508	242	BB
2	0.550			75.465	6240904	934016	BB
3	0.958			0.046	3768	1178	BB
4	1.226			0.019	1576	496	BB
5	1.380			0.136	11288	2035	BB
6	1.730			0.084	[illegible]	[illegible]	[illegible]

912

7	2.110	alpha-BHC	0.522	431992~~88.9~~/~~48.6~~	3833	BV
8	2.629	LINDANE	0.194	160822~~48~~/15.3	1803	VV
9	2.971	beta-BHC	0.202	166768~~8.1~~/~~47.4~~	1398	VV
10	3.190	HEPTACHLOR	0.496	410392~~66.2~~/~~36.6~~	2588	VB
11	3.853	ALDRIN	0.424	350652~~97~~/~~21.9~~	2354	BV
12	4.163		0.531	43910	2065	VB
13	5.660	HEPTACHLOR EPOXI	0.716	592122~~38.9~~/~~59.8~~	2022	BV
14	6.641	ENDOSULFAN I	1.039	859156~~6.8~~/~~24.6~~	1444	VV
15	8.125	P,P'-DDE	0.953	787932~~24.7~~/~~82.8~~	2625	VV
16	8.459	DIELDRIN	1.100	909902~~79.5~~/~~76.9~~	2388	VV
17	9.337		0.286	23645	998	VV
18	10.328	ENDRIN	2.493	2061531~~94.5~~/~~250.4~~	4859	VE
19	11.250		0.255	21069	580	EV
20	12.239	P,P'-DDD/ENDOSULFAN II	2.803	231832	4206	VV
21	14.587	P,P'-DDT	1.957	1618518~~1.5~~/~~469.1~~	2359	VB
22	19.050		1.016	84025	873	BB
23	22.858 S	MIREX (STD.)	0.628	51907	641	BV
24	25.707		8.604	7115223~~00~~/560	6721	VB
TOTALS			100.000	8269885		

394 ug/kg DBC SPIKED

142% REC

P,P'-DDD 198193/162.1 20

ENDO II 38689/248.1

37.5

VI. 2. Reporting Package for

NJDEP I.D. # BSA 0819785

MATRIX SPIKE DUPLICATE

H2M LABS, INC.
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HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

New Jersey DEP
65 Prospect Street
Trenton, NJ 08628

Lab No. 759870 MSD
Sample No. BSA 0819785 MSD
Sample I.D. Soil 1 Matrix Spike Dup
Concentration: Low Dil Factor: 0.85
Date Ext.8/28/87 Date Anal. 9/11/87
Percent Moisture (Decanted) 41% Sonicator yes

C.A.S. Number		ug/kg
72-43-5	Methoxychlor	200U
53494-70-5	Endrin Ketone	40U
57-74-9	Chlordane	200U
8001-35-2	Toxaphene	400U
12674-11-2	Aroclor 1016	200U
11104-28-2	Aroclor 1221	200U
11141-16-5	Aroclor 1232	200U
534469-21-9	Aroclor 1242	200U
12672-29-6	Aroclor 1248	200U
11097-69-1	Aroclor 1254	400U
11096-82-5	Aroclor 1260	400U

Vi = Volume of extract injected (uL)
Vs = Volume of water extracted (mL)
Ws = Weight of sample extracted (g)
Vt = Volume of Total extract (mL)

Vs = Ws = 2.54 g Vt = 3 mL Vi = 5 uL

Date Reported: 9/30/87

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S.C. McLendon, P.E.
Laboratory Director

915

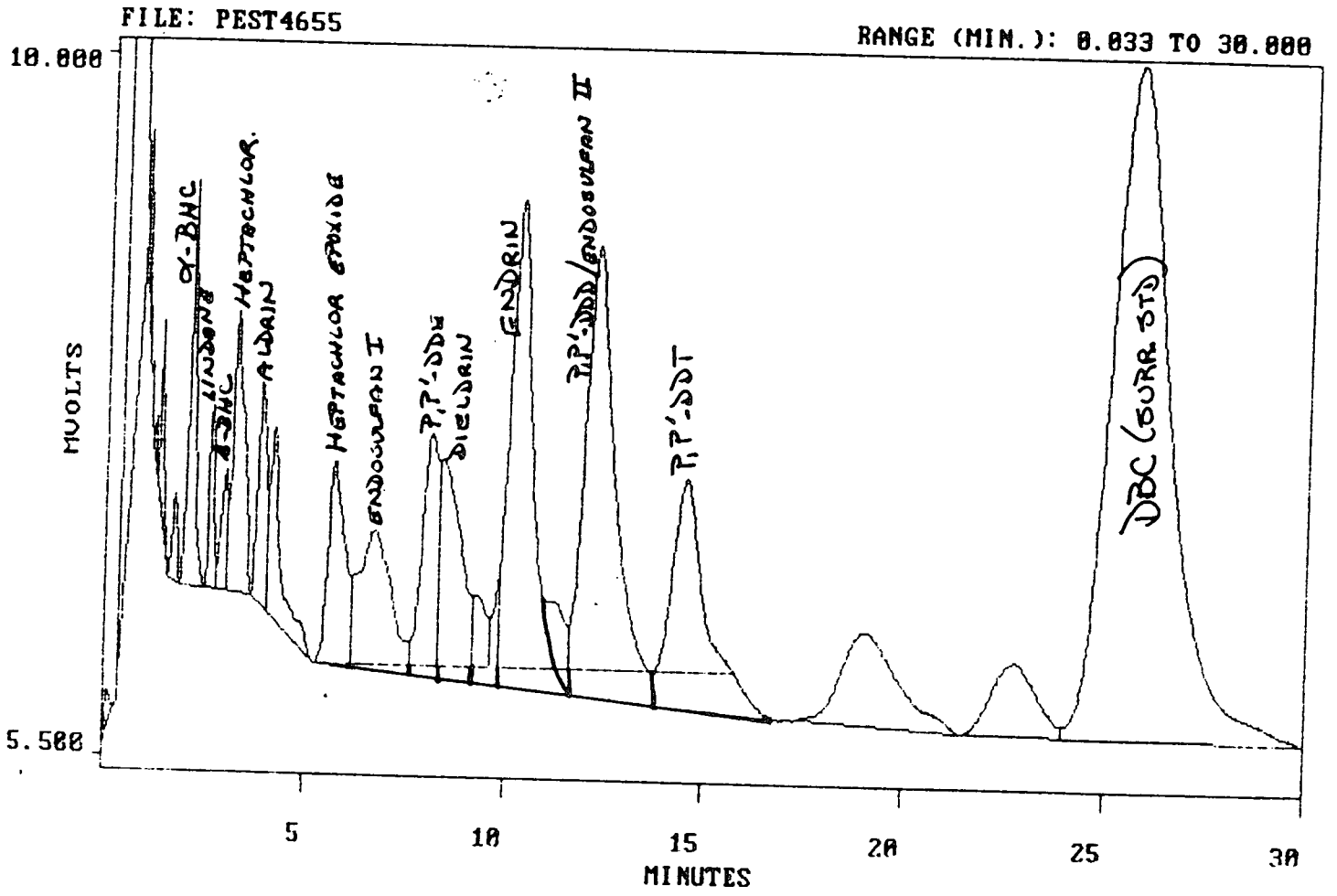
BSA0819785

MATRIX SPIKE DUPLICATE

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time: 15:48:19 Date: THU 17 SEP 87

Time: 12:02:20 Date: FRI 11 SEP 87
Method: PEST1



9/6

Channel # REINT Time 15:53:04 Date THU 17 SEP 87

Sample name
Data file PEST4655
Method name PEST1

Author URM
Instrument 4
Column 1 5% SP-2250/1.95% SP-2401 ON 100/120
Notes SUPELCOPORT

Run time 30.00 min. Delay time 0.00 min.
Acq. time 12:02:20 Acq date FRI 11 SEP 87
Start PW 20.00 sec. End PW 150.00 sec.
Actual PW 140.0
Slope sens 0.70 uv/sec.

Area reject 500
peaks found 23
Vol Inj 5.0 ul Sample amount 1.000
Conv factor 1.000

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METHOD NOT CALIBRATED!

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MISSING PEAKS LIST

R.T. (min)	Peak name	Group	Ref/Std
3.393	delta-BHC	0	
7.139	ENDOSULFAN I	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
27.978	DBC/METHOX/END.K	0	

Gonzalez 9/17/87

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AREA PERCENT REPORT

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Peak	R.T. (min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.139			0.041	2593	256	BB
2	0.528			80.626	5126410	868905	BB
3	0.957			0.057			

917

4	1.224		0.015	946	309	BB
5	1.376		0.111	7080	1309	BB
6	1.730					
7	2.107	alpha-BHC	0.077	4926	583	BB
8	2.627	LINDANE	0.482	30660 233.9/30.9	2745	BB
9	2.967	beta-BHC	0.167	10606 248/9.9	1235	BV
10	3.207	HEPTACHLOR	0.146	9269 83.1/26.3	806	VV
			0.561	35686 266.2/31.8	1886	VB
11	3.847	ALDRIN	0.336	21363 247/16.9	1495	BV
12	4.160		0.384	24422	1269	VB
13	5.652	HEPTACHLOR EPOXIDE	0.589	37442 282.9/27.8	1339	BV
14	6.653	ENDOSULFAN I	0.759	48271 +10000 264.6/65.8	891	VV
15	8.059	P,P'-DDE	0.651	41409 +10000 224.7/64	1548	VV
16	8.370	DIELDRIN	0.791	50318 +10000 279.6/30.9	1378	VV
17	9.238		0.163	10348	468	VB
18	10.250	ENDRIN	2.055	130683 45000 194.6/17.7	3123	BV
19	12.164	P,P'-DDD/ENDOSULFAN II	2.205	140208 24000	2831	VV
20	14.512	P,P'-DDT	0.928	59017 30000 81.5/272	1272	VB
21	18.967					
22	22.740 S	MIREX (STD.)	0.954	60648	611	BB
23	25.683	DBC (SURR. STD)	0.572	36375	477	BV
			7.329	466003 300/367	4516	VB
TOTALS			100.000	6358287		

P,P'-DDD 138607/162.1 267.3

ENDO II 26701/248.1 25.9

VI. 2. Reporting Package for

NJDEP I.D. # BSA 08197890

MATRIX SPIKE

H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

New Jersey DEP
65 Prospect Street
Trenton, NJ 08628

Lab No. 759890 MS
Sample No. BSA 08197890 MS
Sample I.D. GW-1 Matrix Spike
Conc.: Low Conc. Factor: 0.67
Date Ext.8/28/87 Date Anal. 9/10/87
Sonicator yes

C.A.S. Number		ug/l
72-43-5	Methoxychlor	250U
53494-70-5	Endrin Ketone	50U
57-74-9	Chlordane	250U
8001-35-2	Toxaphene	500U
12674-11-2	Aroclor 1016	250U
11104-28-2	Aroclor 1221	250U
11141-16-5	Aroclor 1232	250U
534469-21-9	Aroclor 1242	250U
12672-29-6	Aroclor 1248	250U
11097-69-1	Aroclor 1254	500U
11096-82-5	Aroclor 1260	500U

Vi = Volume of extract injected (uL)
Vs = Volume of water extracted (mL)
Ws = Weight of sample extracted (g)
Vt = Volume of Total extract (mL)

Vs = 2mL Ws = Vt = 3 mL Vi = 5 uL

Date Reported: 9/30/87

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S.C. McLendon, P.E.
Laboratory Director

92

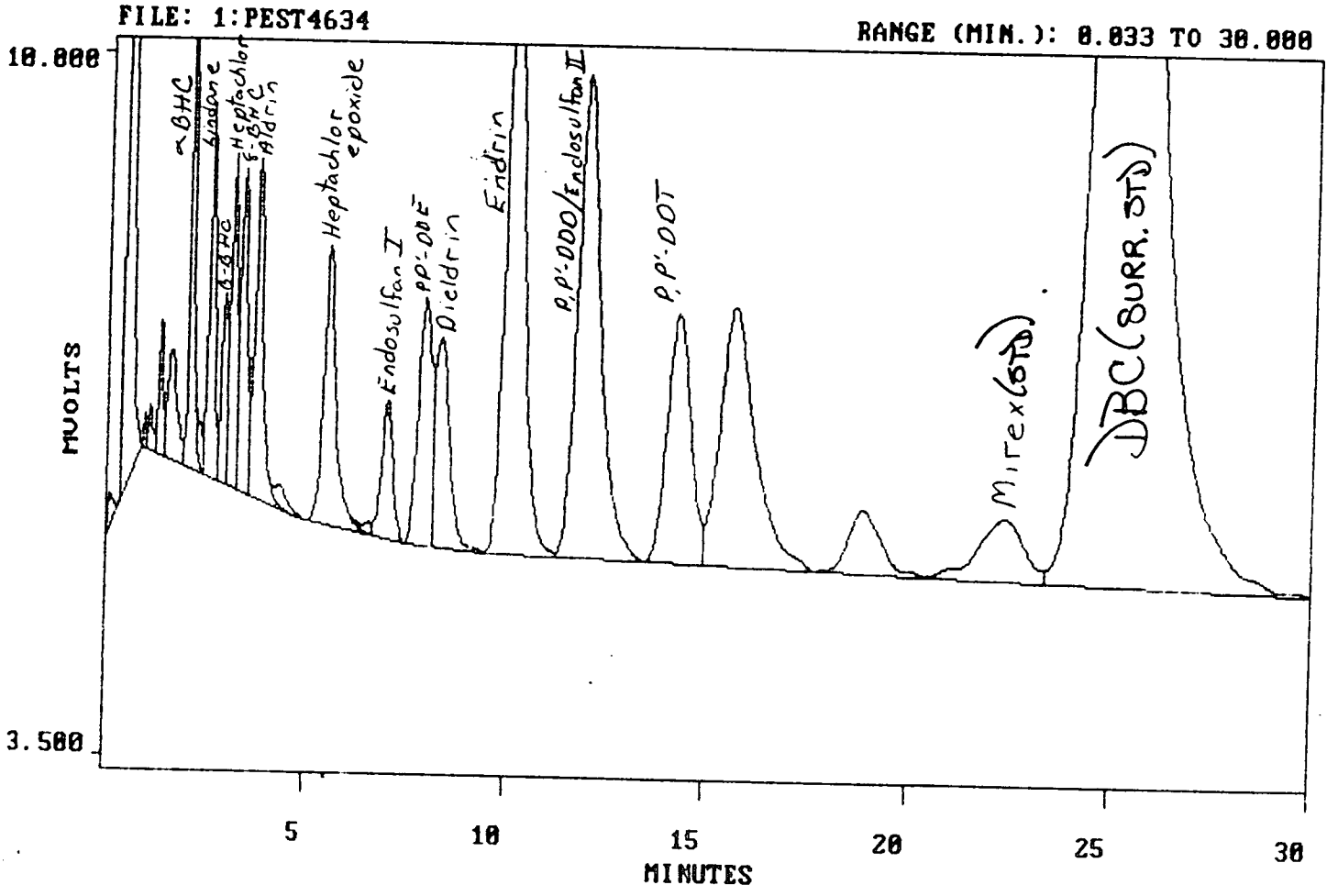
BSA08197890

MATRIX SPIKE

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time: 10:21:31 Date: THU 10 SEP 87

Time: 06:20:39 Date: THU 10 SEP 87
Method: PEST1



Channel # 4 Time:06:51:19 Date:THU 10 SEP 87
Run #24 of 50

Sample name
Data file DAT351:PEST4634
Method name PEST1

Author URM
Instrument 4
Column 1.5% SP-2250/1.95% SP-2401 ON 100/120
Notes SUPELCOPORT

Run time 30.00 min. Delay time 0.00 min.
Acq time 06:20:39 Acq. date THU 10 SEP 87
Start PW 20.00 sec. End PW 150.00 sec.
Actual PW 140.0
Slope sens 0.70 uv/sec.

Area reject 500
peaks found 26
Vol Inj 5.0 ul Sample amount 1.000
Conv factor 1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R.T (min)	Peak name	Group	Ref/Std
5.760	HEPTACHLOR EPOXI	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
12.395	P,P'-DDD	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
27.978	DBC/METHOX/END.K	0	

Ronarell 9/17/87

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AREA PERCENT REPORT

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Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.134			0.068	3440	322	BV
2	0.500			50.457	2563503	608708	VB
3	0.942			0.034	1719	342	BV
4	1.078			0.069	3498	450	VV

6	1.613		0.323	16385	1070	VV
7	2.062	alpha-BHC	0.788	40049203.2	4700	VE
8	2.320		0.079	4021	422	EV
9	2.565	LINDANE	0.699	35524230.1	3632	VV
10	2.905	beta-BHC	0.356	18104 92.6	1844	VV
11	3.109	HEPTACHLOR	0.704	35786 245.8	3254	VV
12	3.361	delta-BHC	0.747	37946 125.9	3139	VV
13	3.733	ALDRIN	0.929	47200 258.1	3314	VE
14	4.294		0.087	4401	190	EB
15	5.479	HEPTACHLOR EPOXIDE	1.116	56692 224.3	2716	BE
16	6.491		0.041	2082	111	EV
17	6.946	ENDOSULFAN I	0.519	26366 255.5	1325	VB
18	7.866	P,P'-DDE	1.110	56416 214.7	2396	BV
19	8.279	~~P,P'-DDE~~ DIELDRIN	1.001	50856 262.8	2030	VB
20	10.060	ENDRIN	3.920	199144 161.3	6315	BV
21	11.902	P,P'-DDD/ENDOSULFAN II	3.788	192475 135.9/204	64692	VB
22	14.245	P,P'-DDT	1.945	98838 100.9	2410	BV
23	15.657		2.975	151142	2503	VB
24	18.837		0.654	33222	601	BB
25	22.317 S	MIREX (STD.)	0.948	48160	595	BV
26	25.146	DBC (SURR. STD).	26.447	13436623 00/134	13157	VB
TOTALS			100.000	5080558		

1000 ug/l ~~DBC~~ SPIKED IN

134% REC.

VI. 2. Reporting Package for

NJDEP I.D. # BSA 08197890

MATRIX SPIKE DUPLICATE

H2M LABS, INC.
575 BROAD HOLLOW ROAD, MELVILLE, N.Y. 11747 • 516-694-3040
HOLZMACHER, McLENDON and MURRELL, P.C. • ENVIRONMENTAL and INDUSTRIAL ANALYTICAL SERVICES

New Jersey DEP
65 Prospect Street
Trenton, NJ 08628

Lab No. 759890 MSD
Sample No. BSA 08197890 MSD
Sample I.D. GW-1 Matrix Spike Dup.
Conc.: Low Conc. Factor: 0.67
Date Ext.8/28/87 Date Anal. 9/10/87
Sonicator yes

C.A.S. Number		ug/l
72-43-5	Methoxychlor	250U
53494-70-5	Endrin Ketone	50U
57-74-9	Chlordane	250U
8001-35-2	Toxaphene	500U
12674-11-2	Aroclor 1016	250U
11104-28-2	Aroclor 1221	250U
11141-16-5	Aroclor 1232	250U
534469-21-9	Aroclor 1242	250U
12672-29-6	Aroclor 1248	250U
11097-69-1	Aroclor 1254	500U
11096-82-5	Aroclor 1260	500U

Vi = Volume of extract injected (uL)
Vs = Volume of water extracted (mL)
Ws = Weight of sample extracted (g)
Vt = Volume of Total extract (mL)

Vs = 2mL Ws = Vt = 3 mL Vi = 5 uL

Date Reported: 9/30/87

****
* *
* *
****
S.C. McLendon, P.E.
Laboratory Director

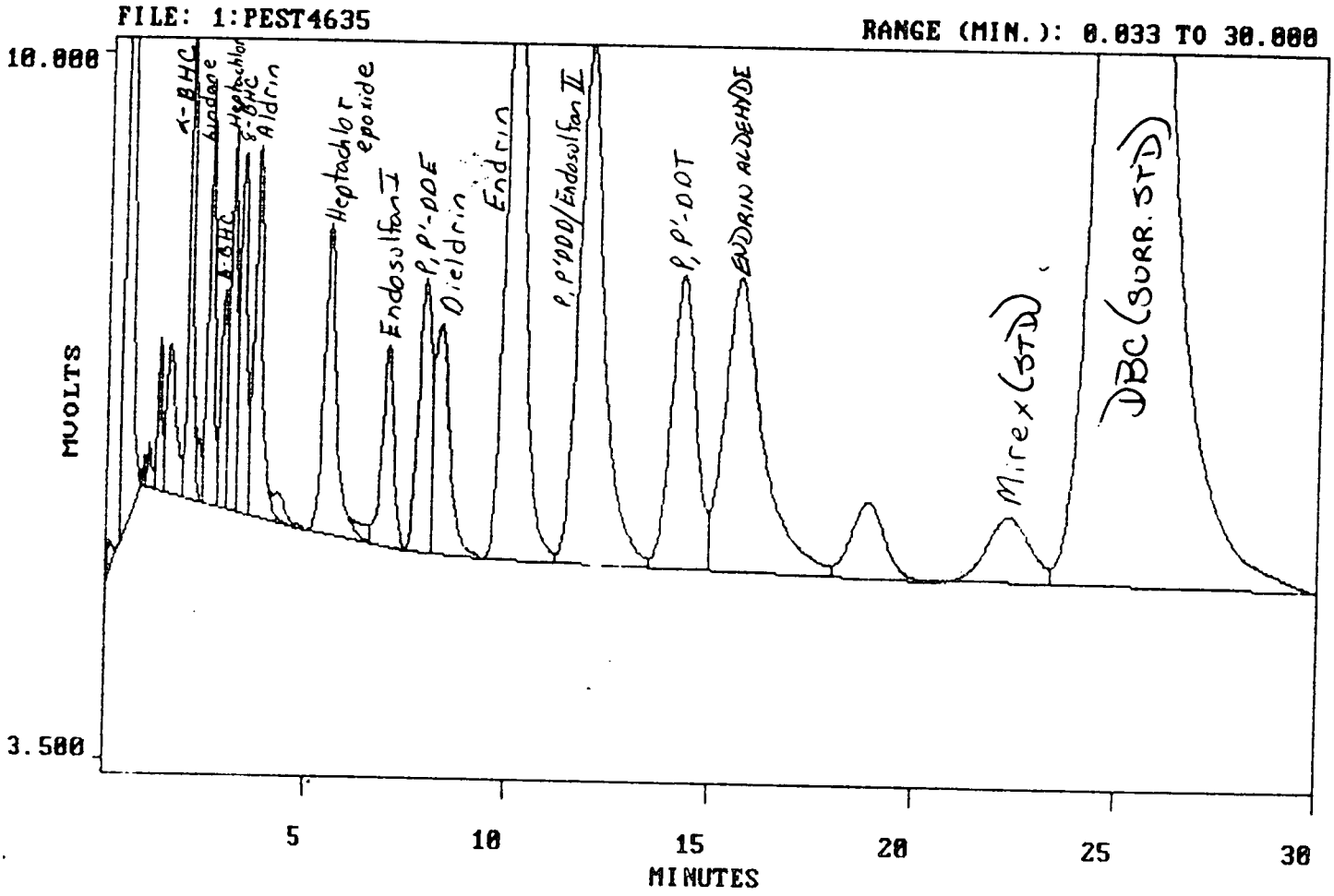
BSA 08197890

MATRIX SPIKE DUPLICATE

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time: 10:24:15 Date: THU 10 SEP 87

Time: 06:52:09 Date: THU 10 SEP 87
Method: PEST1



Channel # REINT Time 12:41:28 Date THU 17 SEP 87

Sample name
Data file PEST4635
Method name PEST1

Author URM
Instrument 4
Column 1 5% SP-2250/1.95% SP-2401 ON 100/120
Notes SUPELCOPORT

Run time 30.00 min. Delay time 0.00 min.
Acq time 06:52:09 Acq. date THU 10 SEP 87
Start PW 20.00 sec. End PW 150.00 sec.
Actual PW 140.0
Slope sens 0.70 uv/sec.

Area reject 500
peaks found 26
Vol Inj 5.0 ul Sample amount 1.000
Conv factor 1.000

==========

METHOD NOT CALIBRATED!

==========

MISSING PEAKS LIST

R T (min)	Peak name	Group	Ref/Std
5.760	HEPTACHLOR EPOXI	0	
8.710	DIELDRIN	0	
10.558	ENDRIN	0	
12.395	P,P'-DDD	0	
12.845	ENDOSULFAN II	0	
15.193	P,P'-DDT	0	
16.676	ENDRIN ALDEHYDE	0	
27.978	DBC/METHOX/END.K	.0	

Gonzalez 9/17/87

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AREA PERCENT REPORT

==========

Peak	R.T. (min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.133			0.053	3087	293	BB
2	0.503			51.242	2998005	687785	BB
3	0.940			0.024	1388	292	BV
4	1.076			0.056	3251	431	VV
5	1.344			0.184	10741	1529	VV
6	1.594			0.399	23367	1438	VV
7	2.057		alpha-BHC	0.764	44719	5101	VE
8	2.317			0.087	5069	522	EV

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9	2.560	LINDANE	0.706	41277	4115	VV
10	2.899	beta-BHC	0.352	20578	2087	VV
11	3.102	HEPTACHLOR	0.702	41075	3677	VV
12	3.352	delta-BHC	0.734	42946	3520	VV
13	3.724	ALDRIN	0.885	51776	3607	VE
14	4.255		0.098	5739	248	EB
15	5.468	HEPTACHLOR EPOXIDE	1.076	62950	2991	BE
16	6.450		0.060	3529	166	EV
17	6.938	ENDOSULFAN I	0.683	39936	1929	VB
18	7.855	DIELDRIN	1.078	63089	2648	BV
19	8.265	P,P'-DDE	0.972	56878	2222	VB
20	10.044	ENDRIN	3.745	219126	6854	BV
21	11.890	P,P'-DDD/ENDOSULFAN II	3.755	219712	5080	VV
22	14.230	P,P'-DDT	2.035	119035	2819	VV
23	15.639	ENDRIN ALDEHYDE	3.195	186950	2829	VV
24	18.843		0.704	41202	733	VB
25	22.294 S	MIREX (STD.)	0.808	47262	626	BV
26	25.113	DBC (SURR. STD)	25.604	1497974 300/1498	14227	VB
TOTALS			100.000	5850661		

1000 ug/l DBC SPIKE IN

150% REC

H2M LABORATORY

IX. Chain of Custody Documentation

Soil Samples · NJDEP · Bureau of Planning & Assessment

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	SAMPLERS: (Signature)
	NJTRANSIT - REMF AKA Conrail - MEADOWS YARD	Deborah Mazur

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Bottle F	Bottle K	Bottle T	Gallon Jugs			REMARKS
	8/19/87	1250		X	Soil #1 / BSA 0819785	4	2	2	—	—			
	8/19/87	1225		X	Soil #2 / BSA 0819786	4	2	2	—	—			
	8/19/87	1210		X	Soil #3 / BSA 0819787	4	2	2	—	—			
	8/19/87	1345		X	Soil #4 / BSA 0819788	4	2	2	—	—			
	8/19/87	1115		X	Soil #5 / BSA 0819789	4	2	2	—	—			
	8/14/87	1430 HRS		✓	Trip Blank BSA 08197994	2	—	—	2	—			Return to LAB
	8/14/87	1430 HRS		✓	Field Blank Water	2	—	—	—	2			Use to Fill Field Blank Samples

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Stuart W. Mundell	8/14/87 1500 HRS	Deborah Mazur	Deborah Mazur	8/19/87 1430 hours	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
			8/20/87 1100 HRS		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

Rescan BSA 01

Aqueous. - For MS/MSD Sample

CHAIN OF CUSTODY RECORD

PROJ. NO.

PROJECT NAME: NJ TRANSIT-REMF | AKA Conrail-Meadows Yard

SAMPLERS: (Signature) Deborah Mazer

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Bottle B	Bottle H	Bottle I	Bottle IO	Bottle J	REMARKS
	8/19/87	1230		X	GW#1/BSA 08197890	17	2	3	6	3	3	
	8/14/87	1438 HRS		✓	Trip Blank	2	-	-	-	-	2	1 trip blank empty - cap broken. Return to LAB

Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Stuart W. Murrell	8/14/87 1500 HRS	Deborah Mazer
	Date / Time	
	Date / Time	Received for Laboratory by: (Signature)

Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Deborah Mazer	8/19/87 1430 hours	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	Date / Time 8/20/87 1100 HRS	

Remarks

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

BSA 03 resal #

Reseal BSA 02

Aqueous Samples

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	AKA
	NJ Transit - REMF	Conrail - Meadows Yard

SAMPLERS: (Signature)
Deborah Mazur

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Bottle B	Bottle H	Bottle I	Bottle I (P)	Bottle J		REMARKS
	8/19/87	1145		X	Surface Water #1 / BSA 08197991	8	1	1	3	1	2		
	8/19/87	1230		X	SW # 2 / BSA 08197992	8	1	1	3	1	2		
	8/19/87	1000			Field Blank	8	1	1	3	1	2		Fill with Field Blank Water Provided
	8/14/87	1430 HRS		✓	Trip Blank	2	–	–	–	–	2		Return to LAB

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Stuart W. Mursell	8/14/87 1500 HRS	D Mazur	Deborah Mazur	8/19/87 1430	

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
			8/20/87 1100 HRS	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

Reseal # BSA 02

Form DWM-020
6/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD

Use One Form for Each Sample — *Shaded Areas for DEP Field Use Only*

NAME OF UNIT AND ADDRESS: NJDEP / DWM / BPA 401 East State St. Trenton, NJ

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name James Padilla Title Asst. Lab Suc. Mgr. Agency HzM Lab

Name Stuart Murrell Title Lab Suc. Mgr. Agency HzM Lab

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle: 8 / 14 / 87 | Military Time: 1200 HRS | Laboratory Affixed Sample Shuttle Seal No.:

Name of Person(s) Breaking Laboratory Seal on Sample Shuttle and Taking Field Sample: Name D. Mazur Title HzM Scientist
Name R. Cervasio Title Staff Chemist
Name C. Smith Title HzM Scientist

Date Laboratory Sample Shuttle Seal Broken: 8 / 19 / 87 | Time (Mil) Seal Broken and Sampling Began: 1000

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS
BSA08197 85	2 - glass	500ml
	2 - glass	40ml

LAB CONTROL NO.

DESCRIPTION OF SAMPLE: Soil
BSA08197 85

Date Sampling Completed & Field Seal Affixed to Sample Shuttle: 8 / 19 / 87 | Military Time: 1430 | Field Affixed Sample Shuttle Seal No.: BSA 01

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample: Name James H Padilla Title Asst. Lab Suc. Mgr.

Field Sample Seal No.: BSA 01 | Date Broken: 8 / 20 / 87 | Military Time Seal Broken: 0800 HRS

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
D. Mazur		8/19/87		Del. to Lab
James Padilla	James Padilla	8/20/87	0800 HRS	Fed Ex Delivery
	- Internal COC Begins -			

COPIES: Gold - Container/Shuttle Preparation Receipt; Yellow - Analyst Chain of Custody; Pink - Field Sampler Receipt; White - Sample Custodians Chain of Custody

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Form DWM-026
6/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD

Use One Form for Each Sample — *Shaded Areas for DEP Field Use Only*

Name, Address and Telephone No. of Project Sponsor: DEP/Bureau of Site Management, 60 Park Place, Newark, NJ

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name James Padilla	Title Asst. Lab Suc. Mgr.	Agency H2M Lab	
Name Stuart Murrell	Title Lab Suc. Mgr.	Agency H2M Lab	
Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle 8/14/87	Military Time 1200 HRS.	Laboratory Affixed Sample Shuttle Seal No.	

Name [illegible] Title [illegible]

Name [illegible] Title [illegible]

Date Shuttle Received [illegible] Time Seal Broken and Sampling Began [illegible]

Sample Shuttle Seal No. N/A Broken [illegible]

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA081986	2-glass	500 ml	Soil #3 (BSA 081986)
	2-glass	40ml	

LAB CONTROL NO. _____

Date Sampling Completed & Field Seal Affixed to Sample Shuttle 8/19/87 | Military Time 1430 | Field Affixed Sample Shuttle Seal No. BSA 01

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample — Name James Padilla — Title Asst. Lab Suc. Mgr.

Field Sample Seal No. BSA01 | Date Broken 8/20/87 | Military Time Seal Broken 1200 HRS.

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
DMazur		8/19/87		DEL TO LAB
James Padilla	James Padilla - Internal COC Begins -	8/20/87	1200 HRS.	Fed Ex Delivery

COPIES: *Gold - Container/Shuttle Preparation Receipt* *Yellow - Analyst Chain of Custody* *Pink - Field Sampler Receipt* *White - Sample Custodians Chain of Custody*

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WM-026

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD

Use One Form for Each Sample | *Shaded Areas for DEP Field Use Only*

[illegible] ADDRESS: [illegible] Prospect St / Trenton, NJ

ne of Person(s) Preparing Container(s) for Sample Shuttle

James Padilla — Title: Asst. Lab Svc. Mgr. — Agency: H2M Lab

Stuart Murrell — Title: Lab Svc. Mgr. — Agency: H2M Lab

te above-mentioned Person(s) ed Container(s) in Sample Shuttle: 8 / 14 / 87 — Military Time: 1200 HRS. — Laboratory Affixed Sample Shuttle Seal No.

[illegible] Name: [illegible] Title: [illegible]

[illegible] Name: [illegible] Title: [illegible]

[illegible] Name: Rasch Title: HSMS [illegible]

[illegible] Broken: 8/19/87 — Time (Mil) Seal Broken and Sampling Begun: [illegible]

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA 0819787	2 - glass	500 ml	Soil #3 (BSA 0819787)
	2 glass	40 ml	

LAB CONTROL NO.

[illegible] Sampling Completed & Field Seal Affixed to Sample Shuttle: 8 / 19 / 87 — Military Time: 1430 — Field Affixed Sample Shuttle Seal No.: BSA 01

[illegible]oratory Person Breaking Field [illegible]l on Sample Shuttle & Accepting Responsibility for Sample — Name: James Padilla — Title: Asst. Lab Svc. Mgr.

[illegible]ld Sample Seal No.: BSA 01 — Date Broken: 8 / 20 / 87 — Military Time Seal Broken: 1200 HRS.

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
D Mazur		8/19/87		Del to Lab
James Padilla	James Padilla	8/20/87	1200 HRS.	Fed Ex Delivery
	- Internal COC Begins -			

COPIES: Gold - Container/Shuttle Preparation Receipt; Yellow - Analyst Chain of Custody; Pink - Field Sampler Receipt; White - Sample Custodians Chain of Custody

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Form DWM-026
6/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD

Use One Form for Each Sample | *Shaded Areas for DEP Field Use Only*

[illegible] NJDEP [illegible] 65 Prospect St, Trenton NJ [illegible]

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name James Padilla Title Asst. Lab Suc. Mgr. Agency H2M Lab

Name Stuart Murrell Title Lab Suc. Mgr. Agency H2M Lab

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle 8 / 14 / 87 | Military Time 1200 HRS. | Laboratory Affixed Sample Shuttle Seal No.

[illegible] Name [illegible] Title [illegible]

[illegible] Name [illegible] Title [illegible]

[illegible] Name [illegible] Title [illegible]

[illegible] Broken 8 / 19 / 87 | Time (Mil) Seal Broken and Sampling Begun [illegible]

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
	2-glass	500 ml	Soil #4
BSA 0819788	2-glass	40 ml	BSA 0819788

LAB CONTROL NO.

Date Sampling Completed & Field Seal Affixed to Sample Shuttle 8 / 19 / 87 | Military Time 1450 | Field Affixed Sample Shuttle Seal No. BSA 01

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample Name James Padilla Title Asst. Lab Suc. Mgr.

Field Sample Seal No. BSA 01 | Date Broken 8 / 20 / 87 | Military Time Seal Broken 1200 HRS.

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
D. Mazur		8/19/87		Del. to Lab
James Padilla	James Padilla	8/20/87	1200 HRS.	Fed Ex Delivery
	- Internal COC	Begins -		

COPIES: Gold - Container/Shuttle Preparation Receipt; Yellow - Analyst Chain of Custody; Pink - Field Sampler Receipt; White - Sample Custodians Chain of Custody

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m DWM-026
5/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD

Use One Form for Each Sample | *Shaded Areas for DEP Field Use Only*

NAME OF UNIT AND ADDRESS: NJDEP/DHWM/BPA 105 Prospect St. Trenton, NJ.

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name	James Padilla	Title	Asst. Lab Svc. Mgr.	Agency	H2M Lab
Name	Stuart Murrell	Title	Lab Svc. Mgr.	Agency	H2M Lab

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle: 8 / 14 / 87 | Military Time: 1200 HRS. | Laboratory Affixed Sample Shuttle Seal No.

Name of Person(s) Breaking Laboratory Seal on Sample Shuttle and Taking Field Sample: Name [illegible] Title HSMS [illegible]; Name Gervasio Title Supr [illegible]; Name Baisch Title HSMS [illegible]

Date Laboratory Sample Shuttle Seal No. Broken ___/___/___ | Time (Mil) Seal Broken and Sampling Begun [illegible]

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA0819789	2 - glass	500 ml	Soil #5
	2 glass	40 ml	(BSA 0819789)

LAB CONTROL NO.

Date Sampling Completed & Field Seal Affixed to Sample Shuttle: 8/19/87 | Military Time: 1430 | Field Affixed Sample Shuttle Seal No. BSA01

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample: Name James Padilla Title Asst. Lab Svc. Mgr.

Field Sample Seal No. BSA01 | Date Broken 8 / 20 / 87 | Military Time Seal Broken 1200 HRS

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
DMazur		8/19/87		Del to Lab
James Padilla	James Padilla	8/20/87	1200 HRS	Fed Ex Delivery
	- Internal COC Begins -			

COPIES: *Gold - Container/Shuttle Preparation Receipt* *Yellow - Analyst Chain of Custody* *Pink - Field Sampler Receipt* *White - Sample Custodians Chain of Custody*

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Form DWM-026
6/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD

Use One Form for Each Sample | *Shaded Areas for DEP Field Use Only*

NAME OR UNIT AND ADDRESS: NJDEP/DWM/RPA 65 Prospect St, Trenton NJ

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name	James Padilla	Title	Asst. Lab Svc. Mgr.	Agency	H2M LAB
Name	Stuart Murrell	Title	Lab Svc. Mgr.	Agency	H2M LAB

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle: 8 / 14 / 87	Military Time: 1200 HRS.	Laboratory Affixed Sample Shuttle Seal No.

Name of Person(s) Breaking Field Seal on Sample Shuttle and Taking Field Sample: Name D. Mazur, Title HSMS II; Name R. Cardesto, Title Sup. Mech.; Name [illegible], Title HSMS II

Date Laboratory Sample Shuttle Seal No. Broken 8 / 19 / 87 | Time (Mil) Seal Broken and Sampling Begun 1000

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
	2 plastic	500 ml	Ground Water [illegible]
	3 plastic cubic	1 qt	
	6 glass	1 liter	BSA 08197840
	3 glass	1 liter	
	3 glass	40 ml	

LAB CONTROL NO.

Date Sampling Completed & Field Seal Affixed to Sample Shuttle: 8 / 19 / 87 | Military Time: 1430 | Field Affixed Sample Shuttle Seal No. BSA 03

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample: Name James Padilla, Title Asst. Lab Svc. Mgr.

Field Sample Seal No. BSA 03 | Date Broken 8 / 20 / 87 | Military Time Seal Broken 1200 HRS.

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
D. Mazur		8/19/87		Del. to Lab
	James Padilla	8/20/87	1200 HRS.	Fed Ex Delivery
James Padilla	- Internal COC Begins -			

COPIES: Gold - Container/Shuttle Preparation Receipt; Yellow - Analyst Chain of Custody; Pink - Field Sampler Receipt; White - Sample Custodians Chain of Custody

Form DWM-026
6/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD

Use One Form for Each Sample — *Shaded Areas for DEP Field Use Only*

NAME OF LAB AND ADDRESS: NJDEP/BPA 36 Prospect St. Trenton, NJ 8

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name	James Padilla	Title	Asst. Lab Suc. Mgr.	Agency	H2M Lab
Name	Stuart Murrell	Title	Lab Suc. Mgr.	Agency	H2M Lab

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle: 8 / 14 / 87 — Military Time: 1200 HRS. — Laboratory Affixed Sample Shuttle Seal No.:

Name of Person(s) Breaking Laboratory Sample Shuttle Seal and Taking Field Samples: Name: Marsha Gervasio; Name: Paul Ba; Title: H2M Tech; Title: H2M Tech

Date Laboratory Sample Shuttle Seal Broken: 8/19/87 — Time (Mil) Seal Broken and Sampling Began: 1000

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA 08197991	2	40 ml	SW#1 (BSA 08197991)
	1	plastic 500 ml	
	1	1 qt	
	4	1 liter	

LAB CONTROL NO.: _____

Date Sampling Completed & Field Seal Affixed to Sample Shuttle: 8/19/87 — Military Time: 1430 — Field Affixed Sample Shuttle Seal No.: BSA 08

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample — Name: James Padilla — Title: Asst. Lab Suc. Mgr.

Field Sample Seal No.: BSA 08 — Date Broken: 8 / 20 / 87 — Military Time Seal Broken: 800 HRS.

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
DMazur		8/19/87		Del TO Lab
James Padilla	James Padilla - Internal CoC	8/20/87	800 HRS	Fed Ex Delivery
		Begins -		

COPIES: *Gold - Container/Shuttle Preparation Receipt* *Yellow - Analyst Chain of Custody* *Pink - Field Sampler Receipt* *White - Sample Custodians Chain of Custody*

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Form DWM-026
6/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD

Use One Form for Each Sample

Shaded Areas for DEP Field Use Only

NAME OF CONTRACTOR PERFORMING FIELD WORK: H2M Labs / Plum Island 65 Prospect St / Trenton, NJ

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name	James Padilla	Title	Asst. Lab Svc. Mgr.	Agency	H2M Lab
Name	Stuart Murrell	Title	Lab Svc. Mgr.	Agency	H2M Lab
Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle	8 / 14 / 87	Military Time	1200 HRS.	Laboratory Affixed Sample Shuttle Seal No.	

Name of Sampler Taking Field Sample: Name: Bervasio Title: H2M Labs

Date Received Sample Shuttle Seal No. N/A Broken: 8 / 19 / 87 Time (Mil) Seal Broken and Sampling Began: 1000

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA08197992	2 glass	40 ml	Lot 2
	1 plastic	500 ml	EBSA 08197992 J
	4	qt	
		liter	

LAB CONTROL NO. _____

Date Sampling Completed & Field Seal Affixed to Sample Shuttle: 8 / 19 / 87 Military Time: 1430 Field Affixed Sample Shuttle Seal No. B54052

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample — Name: James Padilla Title: Asst. Lab Svc. Mgr.

Field Sample Seal No. B54052 Date Broken 8 / 20 / 87 Military Time Seal Broken 1200 HR.

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
DMazur		8/19/87		Del to lab
James Padilla	James Padilla - Internal coc	8/20/87 Begins -	1200 HRS.	Fed Ex Delivery

COPIES: *Gold - Container/Shuttle Preparation Receipt* *Yellow - Analyst Chain of Custody* *Pink - Field Sampler Receipt* *White - Sample Custodians Chain of Custody*

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Form DWM-026
6/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD

Use One Form for Each Sample — *Shaded Areas for DEP Field Use Only*

Name of Person(s) Preparing Container(s) for Sample Shuttle			
Name James Padilla	Title Asst. Lab Svc. Mgr.	Agency H2M Lab	
Name Stuart Murrell	Title Lab Svc Mgr.	Agency H2M Lab	
Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle 8 / 14 / 87	Military Time 1200 HRS.	Laboratory Affixed Sample Shuttle Seal No.	

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS
	2	40 ml
	1	plastic 500 ml
	1	1 qt
	4	1 liter

LAB CONTROL NO. _____

DESCRIPTION OF SAMPLE

Field BSA 0819892

Date Sampling Completed & Field Seal Affixed to Sample Shuttle 8 / 19 / 87 — Military Time 1430 — Field Affixed Sample Shuttle Seal No. BSA02

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample — Name James Padilla — Title Asst. Lab Svc. Mgr.

Field Sample Seal No. BSA02 — Date Broken 8 / 20 / 87 — Military Time Seal Broken 1200 HRS.

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
D. Mazur		8/19/87		Del to Lab
James Padilla	James Padilla	8/20/87	1200 HRS.	Fed Ex. Delivery
	- Internal COC	Begins —		

COPIES: *Gold - Container/Shuttle Preparation Receipt* *Yellow - Analyst Chain of Custody* *Pink - Field Sampler Receipt* *White - Sample Custodians Chain of Custody*

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Form DWM-026
6/84

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD

Use One Form for Each Sample

Shaded Areas for DEP Field Use Only

NAME OF SITE AND ADDRESS: Ciba-Geigy Corp. Toms River Plant, Toms River, NJ

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name James Padilla	Title Asst. Lab Svc. Mgr.	Agency H2M Lab	
Name Stuart Murrell	Title Lab Svc. Mgr.	Agency H2M Lab	
Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle 8 / 14 / 87	Military Time 1200 HRS.	Laboratory Affixed Sample Shuttle Seal No.	

Name [illegible] Title [illegible]

Name [illegible] Title [illegible]

Date Laboratory Sample Shuttle Seal Affixed N/A Broken 8 / 20 / 87 Time Drill Site Broken and Sample Began 1200

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS
B3A08197994	2 - glass	500 ml
	2 glass	40 ml

DESCRIPTION OF SAMPLE: TRIP BLANK (B3A08197994)

LAB CONTROL NO. _____

Date Sampling Completed & Field Seal Affixed to Sample Shuttle 8 / 19 / 87 Military Time 1200 Field Affixed Sample Shuttle Seal No. B5401

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample Name James Padilla Title Asst. Lab Svc. Mgr.

Field Sample Seal No. B5401 Date Broken 8 / 20 / 87 Military Time Seal Broken 1200 HRS.

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
DMazur		8/19/87		Del to lab
James Padilla	James Padilla	8/20/87	1200 HRS.	Fed Ex Delivery
	- Internal COC Begins -			

COPIES: *Gold - Container/Shuttle Preparation Receipt* *Yellow - Analyst Chain of Custody* *Pink - Field Sampler Receipt* *White - Sample Custodians Chain of Custody*

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HZM LABORATORY

Full COC & Full CLP.

NJDEP

ID# NJ Transit / Conrail Meadows Yard

Continuing Chain of Custody

Samples Received by James Padilla date 8/20/87 time 1100 HRS

Signature James Padilla

No. of bottles received	client Sample ID#	type	HZM lab no.
			x RV + Unknowns
3	Soil 1 BSA 0819785	J	759868 USE FOR MS/MSD 4150
2	Soil 2 BSA 0819786	J	759872
2	Soil 3 BSA 0819787	J	759876
2	Soil 4 BSA 0819788	J	759880
2	Soil 5 BSA 0819789	J	759884
3	GW#1 BSA 0897890	J	759888 USE FOR MS/MSD ALSO
2	SW#1 BSA 0819791	J	759892
2	SW#2 BSA 0819792	J	759896
2	Field Blank	J	759900
2	Trip Blank	J	759904

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
James Padilla	[illegible]	8/21/87	17:15	ALL	Storage / Analysis

Analyst's Signature	TIME	DATE	Run #	VOLUME	SAMPLE	INTERNAL STANDARD (µL)	COMMENTS
Stefanou	✓	8/19	PU 7403		50ng BFB #24		
Stefanou	✓	8/19	PU 7404	5ml H2O	500µg/L AA std	2.5 V276	
Stefanou	✓	8/19	PU 7405	5ml H2O	Instr. Blank	"	
Stefanou	✓	8/19	PU 7406	5ml	759184	"	
Stefanou	✓	8/19	PU 7407	5ml	759196	"	
Stefanou	✓	8/19	PU 7408	5ml	759198	"	
Stefanou	✓	8/20	PU 7409		50ng BFB #24		
Stefanou	✓	8/20	PU7410	5ml H2O	624 std	"	
Stefanou	✓	8/20	PU7411	5ml H2O		"	2µL Direct Inj. 759298
Stefanou	16:59	8/26	PU7412		50ng BFB #24	1.5 V276	+3µl fluoroborene
Stefanou	17:20	"	PU7413	5ml H2O	STANDARD	"	"
Stefanou	18:24	"	PU7414	5ml H2O	Blank	"	"
Stefanou	19:31	"	PU7415	1ml + 4ml H2O	759888	BSA	08197890
Stefanou	—	"	PU7416	1ml + 4ml H2O	759888 MS		rerun
Stefanou	—	"	PU7417	1ml + 4ml H2O	759888 MSD		rerun
Stefanou	23:23	"	PU7418	3ml	759892		3ml BSA 08197991
Stefanou	0:42	"	PU7419	3ml	759896		BSA 08197 (92
Stefanou	1:48	"	PU7420	3ml	759900		Field Blank
Stefanou	2:46	"	PU7421	3ml	759904		Trip Blank
Stefanou	—	8/28	PU7422	2µl	~~1µg/µl Isoprene/hex~~		RFB
Stefanou	—	8/28	PU7423	1µl	1µg/µl Isoprene/hex		
Stefanou	—	8/28	PU7424	0.5µl	5µg/µl Isoprene/Methelyne Chloride		
Stefanou	—	8/28	PU7425	0.5µl	1µg/µl Isoprene/hexane		
Stefanou	—	8/28	PU7426	0.5µl	759690	/ hexane	
Stefanou	—	8/28	PU7427	0.5µl	759690	"	MID
Stefanou	—	8/28	PU7428	0.5µl	1µg/µl Isoprene/hexane		
Stefanou	—	8/28	PU7429	0.5µl	Blank for Isoprene		(Hexane
Stefanou	8:53	8/28	PU7430	3µl	BFB Standard		
Stefanou	9:48	8/28	PU7431	5ml	STANDARD	1.5+3	"
Stefanou	10:47	8/28	PU7432	5ml	Blank	1.5+3	"
Stefanou	11:46	8/28	PU7433	1ml → 5ml H2O	759888 MS	1.5µV276	+3µl fluoroborene
Stefanou	12:53	8/28	PU7434	1ml → 5ml H2O	759888 MSD		
Stefanou	13:59	8/28	PU7435	100µl → 5ml H2O	759868)	1.5+3	2.1180 dil. into 5ml MeOH
Stefanou	14:59	8/28	PU7436	100µl → " "	-MS	"	"
Stefanou	15:47	8/28	PU7437	100µl → 5ml H2O	759868 MSD	"	"
Stefanou	17:04	8/28	PU7438	100µl → 5ml H2O	759872	"	1.1205 grs dil. into 5ml MeOH
Stefanou	18:02	8/28	PU7439	100µl → 5ml H2O	759876	"	[illegible]

Analyst's Signature	TIME	DATE	Run #	VOLUME	SAMPLE	INTERNAL STANDARD (µL)	COMMENTS
Stefanou	11:03	8/28	PU7440	100µl →	5mls H2O 759880	1.5µl V276	0.6179gr → 5ml MeOH
Stefanou	11:59	8/28	PU7441	100µl →	5mls H2O 759884	3µl fluor.	1.2133gr → 5ml MeOH

H2M LABORATORY

Full COC
&
Full CLP

NJDEP

ID# NJ Transit / Conrail Meadows Yard

Page 1

Continuing Chain of Custody

Samples Received by James Padilla date 8/20/87 time 1100 HRS.

Signature James Padilla

No. of bottles received	client Sample ID#	type		H2M lab no. X.BN	X.AE (+ Unknowns)	X.PP + unknowns
1	Soil 1 BSA 0819785	K	USE FOR MS/MSD ALSO	759869	759870	
1	Soil 2 BSA 0819786	K		759873	759874	
1	Soil 3 BSA 0819787	K		759877	759878	
1	Soil 4 BSA 0819788	K		759881	759882	
1	Soil 5 BSA 0819789	K		759885	759886	
6	SW#1 BSA 08197890	I	USE FOR MS/MSD ALSO	759889	759890	
3	SW#1 BSA 08197991	I	✓	759893	759894	
3	SW#2 BSA 08197992	I	✓	759897	759898	
3	Field Blank	I	✓	759901	759902	

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
James Padilla	G Conn Pastore			ALL	Storage / Analysis
G Conn Pastore	L A Barthman	8/21/87	9:00	All	Extraction
Laura A Barthman	Glenn K Bodnar	9/9/87	08:45	All vials	Analysis

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BN/AE EXTRACTIONS

LAB #	758882 MS	758882 MSD	BLK 179	SW#1 759889 BSA 08197890	SW#1 759893 BSA 08197891	SW#2 759897 BSA 08197892	Field Blank 759901	Blank 180	SW#1 759889 BSA 08197890 MS	SW#1 759889 BSA 08197890 MSD
TYPE OF EXTRACTION	BN/Ac	BN/Ac	BN/Ac	Ac/BN/PP	Ac/BN/PP	Ac/BN/PP	Ac/BN/PP	BN/Ac	BN/Ac	BN/Ac
DATE EXTRACTED	8-19	8-19	8-19	8-22	8-22	8-22	8-22	8-22	8-22	8-22
DATE RECEIVED										
INIT OF EXTRACTIONIST			LBB	LHB	LHB	LHB	LHB	LHB	LHB	LHB
SAMPLE VOLUME	500 ml	500 ml	1000 ml	500 ml	1000 ml	1000 ml	1000 ml	1000 ml	500 ml	500 ml
SURROGATE STANDARD #	BN 486 PH 193	BN 486 PH 193	BN 486 PH 193	BN 486 PH 193 PS 1786	BN 486 PH 193 PS 1786	BN 486 PH 193 PS 1786	BN 486 PH 193 PS 1786	BN 486 PH 193 PS 1786	BN 486 PH 193	BN 486 PH 193
VOLUME S.S.	1 ml 1 ml	1 ml 1 ml	1 ml 1 ml	1 ml 1 ml	1 ml 1 ml	1 ml 1 ml	1 ml 1 ml	1 ml 1 ml	1 ml 1 ml	1 ml 1 ml
SPIKE #	BN 484 PH 191	BN 484 PH 191							BN 484 PH 191	BN 484 PH 191
VOLUME SPIKE	1 ml 1 ml	1 ml 1 ml							1 ml 1 ml	1 ml 1 ml
NUMBER OF EXTRACTIONS	3	3	3	3	3	3	3	3	3	3
TOTAL VOL. OF SOLVENT	180	180	180	180	180	180	180	180	180	180
pH	>11/<2	>11/<2	>11/<2	<2/	<2/>11	<2/>11	<2/>11	<2/>11	<2/>11	<2/>11
Na_2SO_4 USED? (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
GPC SAMPLE EXTRACTED? (Y/N)	N	N	N	N	N	N	N	N	N	N
TIME USED TO CONCENTRATE	45 min	45 min	45 min	45 min	45 min	45 min	45 min	45 min		
DATE/INIT IF NOT AS ABOVE				LHB	LHB	LHB	LHB	LHB		
H_2O BATH TEMP. °C	60°	60°	60°	60°	60°	60°	60°	60°		
Vol Conc. ☐ BN	.5 ml	.5 ml	.5 ml	0.5 ml	0.5 ml	0.5 ml	0.5 ml	0.5 ml		
Ae	.5 ml	.5 ml	.5 ml	0.5 ml	0.5 ml	0.5 ml	0.5 ml	0.5 ml		
PP	—	—	—					—	—	—
PHENOL d_5 RECOVERY %										
2-FLUOROPHENOL RECOVERY %										
2,4,6 TRIBROMOPHENOL RECOVERY %										
NITROBENZENE d_5 RECOVERY %										
2-FLUOROBIPHENYL RECOVERY %										

BN / AE EXTRACTIONS

LAB #	759815	759868	759867	Blank 181	FB 759935	TB 759936	Soil #1 759869 BSA0819785	Soil #1 759869 BSA 0819785	Soil #1 759869 BSA 0819785	Soil #2 759873 BSA 0819786
TYPE OF EXTRACTION	Ae	Ae	Ae	BN/Ae	BN/Ae	BN/Ae	MS BN/Ae	MSD BN/Ae	PP BN/Ae	PP BN/Ae
DATE EXTRACTED	8-25	8-25	8-25	8-25	8-25	8-25	8-26-87	8-26	8-26-87	8-26-87
DATE RECEIVED										
INIT OF EXTRACTIONIST	YAB	YAB	YAB	YAB	YAB	YAB	YAB	YAB	YAB	YAB
SAMPLE VOLUME	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml	1000 ml	2.0043 g	2.0046 g	2.0007 g	5.0026 g
SURROGATE STANDARD #	PH193	PH193	PH193	BN486 PH193	BN486 PH193	BN486 PH193	BN486 PH193	BN486 PH193	BN486 PH193	BN486 PH193 PS1793
VOLUME S.S.	1 ml	1 ml	1 ml	1 ml 1 ml	1 ml 1 ml	1 ml 1 ml	1 ml 1 ml	1 ml 1 ml	1 ml 1 ml PS1793 1 ml	1 ml 1 ml 1 ml
SPIKE #										
VOLUME SPIKE										
NUMBER OF EXTRACTIONS	3	3	3	3	3	3	3	3	3	3
TOTAL VOL. OF SOLVENT	180	180	180	180	180	180	180	180	180	180
pH	<2	<2	<2	>11/<2	>11/<2	>11/<2	>11/<2	>11/<2	>11/<2	>11/<2
Na_2SO_4 USED? (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
WAS SAMPLE EXTRACTED PRIOR	N	N	N	N	N	N	N	N	N	N
TIME USED TO CONCENTRATE	45 min	45 min	45 min	45 min	45 min	45 min	45 min	45 min	45 min	
DATE / INIT IF NOT AS ABOVE	—									
CO BATH TEMP. °C	60°	60°	60°	60°	60°	60°	60°	60°	60°	60°
BN	—	—	—	0.5 ml	0.5 ml	0.5 ml	0.5 ml	0.5 ml	0.5 ml	0.5 ml
Ae	0.5 ml	0.5 ml	0.5 ml	0.5 ml	0.5 ml	0.5 ml	0.5 ml	0.5 ml	0.5 ml	0.5 ml
PP	—	—	—	—	—	—	—	—		
									double spiked BN+PH	
PHENOL d_5 RECOVERY %										
2-FLOUROPHENOL RECOVERY %										
2-BROMOPHENOL RECOVERY %										
NITRO BENZENE d_5 RECOVERY %										
FLOURO BIPHENYL RECOVERY %										

BN/AE EXTRACTIONS

LAB #	Blank 182	Soil3 759877 BSA 0819787	Soil4 759881 BSA 0819788	Soil5 759885 BSA 0819789	Blank 183	759933 MW2	759933 MW2 MS	759933 MW2 MSD	759934 MW3C	Soil9 760306
TYPE OF EXTRACTION	PP BN/Ae	PP BN/Ae	PP BN/Ae	PP BN/Ae	BN/Ae	BN/Ae	BN/Ae	BN/Ae	BN/Ae	PP BN/Ae
DATE EXTRACTED	8-26	8-26	8-26	8-26	8-29	8-28	8-28	8-28	8-28	9-2
DATE RECEIVED	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
INIT OF EXTRACTIONIST										
SAMPLE VOLUME		5.0037g	5.0009g	5.0027g		10.1663	10.0054g	10.0589	10.0405	10.3934g
SURROGATE STANDARD #	PH193 BN486 PS1786	PH193 BN486 PS1786	PH193 BN486 PS1786	PH193 BN486 PS1786	PH193 BN486	PH193 BN486	PH193 BN486	PH193 BN486	PH193 BN486	PH193 BN486 PS1786
VOLUME S.S.	1ml 1ml	1ml 1ml	1ml 1ml	1ml 1ml	1ml 1ml	1ml 1ml	1ml 1ml	1ml 2ml	1ml 1ml	1ml 1ml 1ml
SPIKE #							BN PH			
VOLUME SPIKE							1ml 1ml	1ml 1ml		
NUMBER OF EXTRACTIONS										
TOTAL VOL. OF SOLVENT	180	180	180	180	180	180	180	180	180	180
pH	<2/>11	<2/>11	<2/>11	<2/>11	<2/>11	<2/>11	<2/>11	<2/>11	<2/>11	<2/>11
Na_2SO_4 USED? (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
WAS SAMPLE EXTRACTED PREV	N	N	N	N	N	N	N	N	N	N
TIME USED TO CONCENTRATE										
DATE / INIT IF NOT AS ABOVE										
H_2O BATH TEMP. °C										
BN		0.5ml	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5ml
Ae		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5ml
PP										
					Maybe 2xAe			Maybe 2x BN/Ae		
PHENOL d5 RECOVERY %										
2-FLOUROPHENOL RECOVERY %										
2,4,6 TRIBROMOPHENOL RECOVERY %										
NITROBENZENE d5 RECOVERY %										
2-FLOURO BIPHENYL										

Semi-Volatile BNA

[illegible] 2

Analyst	date	direct Ini.	RUN #	STD. SOL. #	Client	Sample # / Lab #	Comments	Intracde Standard µl	Sol. #	Sol. Vol.	Storage INFO. Tape	CRN.	TRACK	QUANT.	Reported	Date	
GKB	9/9	AU	3390		2	BSA 08197991 BNA	759893 BNA	10	BN 488	1.0			B2				
↓	↓	↓	3391		↓	BSA 08197992 BNA	759897 BNA	↓	↓	↓			↓				
↓	↓	↓	3392		↓	Field Blank	759901 BNA	↓	↓	↓			↓				
GKB	9/10	AU	DF 123		2	MS 44							B1				
↓	↓	↓	3393		2	25 µg/ml Std 625		10	BN 488	1.0			B1				
↓	↓	↓	3394		2	25 µg/ml Std 625		↓	↓	↓			↓				
GKB	9/11	AU	3395		2	25 µg/ml Std 625		↓	↓	↓			↓				
↓	↓	↓	3396		↓	Blank 184 BNA		↓	↓	↓			↓				
↓	↓	↓	3397		↓	0819785 Soil 1	QC Spike	↓	↓	↓			↓				759869
↓	↓	↓	3398		↓	01819785 Soil 1	QC Spike dup.	↓	↓	↓			↓				759869
↓	↓	↓	3399		↓	01819785 Soil 1	BNA	↓	↓	↓			↓				759869
↓	↓	↓	3400		↓	BSA 0819786 Soil 2	BNA	↓	↓	↓			↓				759873
↓	↓	↓	3401		↓	BSA 0819787 Soil 3	BNA	↓	↓	↓			↓				759877
↓	↓	↓	3402		↓	BSA 0819788 Soil 4	BNA	↓	↓	↓			↓				759 881
↓	↓	↓	3403		↓	BSA 0819789 Soil 5	BNA	↓	↓	↓			↓				759 885
GKB	9/14	AU	DF 124		2	MS 44							B1				
↓	↓	↓	3404		2	25 µg/ml 625 Std		10	BN 488	1.0			B1				
↓	↓	↓	3405		↓	Blank 184 BNA		↓	↓	↓			B1				
↓	↓	↓	3406		↓	BSA 08277105 BNA	QC Spike	↓	↓	↓			B2				
↓	↓	↓	3407		↓	BSA 08277105 BNA	QC Spike Dup.	↓	↓	↓			↓				
↓	↓	↓	3408		↓	BSA 08277105 BNA		↓	↓	↓			↓				
↓	↓	↓	3409		↓	BSA 08277106 BNA		↓	↓	↓			B3				
↓	↓	↓	3410		↓	BSA 08277107 BNA		↓	↓	↓			↓				
↓	↓	↓	3411		↓	BSA 08277110 BNA		↓	↓	↓			↓				
↓	↓	↓	3412		↓	BSA 08277111 BNA		↓	↓	↓			↓				
↓	↓	↓	3413		↓	BSA 08277112 BNA		↓	↓	↓			↓				
↓	↓	↓	3414		↓	BSA 08277113 BNA		↓	↓	↓			↓				
↓	↓	↓	3415		↓	Blank 185 BNA		↓	↓	↓			↓				949
GKB	9/15	AU	DF 125		2	MS 44							B1				

Semi-Volatile BNA

[illegible] 1

Analyst	date	direct Inj.	RUN #	STD SOL. #	Client	Sample # / Lab #	Comments	Internal Standard			Storage Info.			QUANT.	Reported	Date
						µl		µl	Sol. #	Sol. Vol.	Tape	CRN.	TRACK			
GKB	8/28	ALS	DF 119			2	MS 44						B3			
GKB	8/28	ALS	3364			2	25 µg/ml HSL		10	BN 312	1.0			A1			
			3365				Blank 179 BNA									
			3366				759681 XAE									
			3367				759866 XAE									
			3368				759815 XAE									
			3369				759867 XAE									
			3370				759371 XAE 1:5									
GKB	8/31	ALS	DF 120			2	MS 44						A1			
GKB	9/4	ALS	DF 121			2	MS 44						B1			
			3371			2	25 µg/ml HSL		10	BN 312	1.0			B1			
			3372				Blank 181 BNA									
			3373				MW2 BNA	759933								
			3374				MW2 BNA-MS	759933 MS								
			3375				MW2 BNA-MSD	759933 MSD								
			3376				MW-3C BNA	759934								
			3377				Field Blank BNA	759935								
			3378				Trip Blank BNA	759936								
			3379				Blank 183 Base/N									
GKB	9/8	ALS	3380			2	BN 488						B1			
GKB	9/8	ALS	DF 122			2	MS 44						B1			
	9/9		3381			2	10 µg/ml 625 mix		10	BN 312	1.0			B1			
			3382				25 µg/ml 625 mix									
			3383				40 µg/ml 625 mix									
			3384				10 µg/ml 625 mix									
			3385				25 µg/ml 625 mix	Cal. Chk soln.								
			3386				Blank 180 BNA						B2			
			3387				BSA 08197890 spike	759889 MS								
			3388				BSA 08197890 spikedup	759889 MSD								
			[illegible]				[illegible]	[illegible]								

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H2M LABORATORY

ID# NJ Transit

Continuing Chain of Custody

Analysis	By	Date	Analyst Signature	Date	Custodian Signature
Hg prep	WF	8/26/87	William Fitton	8/26/87	Janine Hee
Hg analysis	MH	8/27/87	Janine Hee	8/27/87	Janine Hee
CN Analysis	WK	8/27/87	Wayne Pempelin	8/27/87	Janine Hee
Phenol	EHR	9/1/87	Edward Rich	9/1/87	Janine Hee
Pb	WF	9/8/87	William Fitton	9/8/87	Janine Hee
Flame AA	MH	9/8/87	Janine Hee	9/8/87	Janine Hee
Pb furnace	WF	9/9/87	William Fitton	9/9/87	Janine Hee
As	WF	9/10/87	William Fitton	9/10/87	Janine Hee
Se	MH	9/10/87	Janine Hee	9/10/87	Janine Hee
As	WF	9/14/87	William Fitton	9/14/87	Janine Hee
Sb	WF	9/15/87	William Fitton	9/15/87	Janine Hee
Tl	MH	9/15/87	Janine Hee	9/15/87	Janine Hee

Supervisor ... Review Janine Hee

QC Manager

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H2M LABORATORY

Full COC
NO ICP

ID# NJ Transit / Conrail Meadows Yard (NJDEP)

Page 1

Continuing Chain of Custody

Samples Received by James Padilla date 8/20/87 time 1100 HRS.

Signature James Padilla

No. of bottles received	client sample IP#s	type	H2M lab no. P.P. Metals CN TS on solids Phen
1	Soil 1 BSA 0819785	K	759871 USE FOR MS/MSD ALSO
1	Soil 2 BSA 0819786	K	759875
1	Soil 3 BSA 0819787	K	759879
1	Soil 4 BSA 0819788	K	759883
1	Soil 5 BSA 0819789	K	759887
8	GW#1 BSA 08197890	B, I(P), H	759891 USE FOR MS/MSD ALSO
3	SW#1 BSA 08197991	B, I(P), H	759895
3	SW#2 BSA 08197992	B, I(P), H	759899
3	Field Blank	B, I(P), H	759903

Sample Relinquished by	Sample Received by	Date	Time	Bottle Type	Reason
James Padilla	Janine Hee	8/24/87	11:50	ALL	Storage / Analysis
Janine Hee	Maureen Wineberger	8/24/87	12:30	K, B	metals digestion
Maureen Wineberger	D. Brodzinski	8/24/87	2:00	K, B	TS
D. Brodzinski	Janine Hee	8/25/87	4:00	K, B	storage / analysis

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DATE / TIME	COLUMN	RUN #	REPORTED	% RECOVERY	SOLUTION OR SAMPLE #	SOLUTION VOLUME (mL)	INJECTION VOLUME (uL)	BCAD CODE	TEMPERATURE (°C)	CARRIER FLOW (SCCM)	DETECTOR FLOW (SCCM)	DETECTOR TEMPERATURE (°C)	ANALYST
07:55:08	A-2	46-37			BSAC819799 T5194	1.5			194	23	27	299	Renaull
08:26:54		46-38			BSAC819799 T5196								Renaull
08:59:07		46-39			FIELD BLK T5190								Renaull
09:30:2		46-40			METHOD BLANK 184								Renaull
16:05:13		46-41			METHOD BLANK 183	1.5							Renaull
10:35:43		46-42			T5178	—							Renaull
11:02:04		46-43			ALUMINA T51746	3							Renaull
11:43:41		46-44			BSAC819785 T5197C	1.5							Renaull
12:46:11		46-45			BSAC819789 T5198C	1.5							Renaull
15:09:08		46-46			ALUMINA BLNK	3							Renaull
		46-47			T5179	—							Renaull
16:13:37		46-48			BSAC827713 16C319	1.5							Renaull
16:45:04		46-49			BSAC827712 16C307	1.5							Renaull
17:16:44		46-50			METHOD BLANK 446	1.5							Renaull
17:48:12		46-51			METHOD BLANK 447	1.5							Renaull
18:19:41		46-52			METHOD BLANK 448	1.5							Renaull
18:51:04		46-53			T5178.1	—							Renaull
11:29:15		46-54			BSAC819785 T5195MS	3							Renaull
12:02:20		46-55			BSAC819785 T5196 MSD	3							Renaull
12:33:57		46-56			BSAC827705 16C307	1.5							Renaull
~~13:05:11~~		~~46-57 MK~~			16C244 MK								Renaull
13:05:16		46-57 MK			BSAC827705 16C285MS	1.5							Renaull
13:36:46		46-58 MK			BSAC827705 16C285MSD	1.5							Renaull
14:08:11		46-59 MK			T5165	—							Renaull
14:39:48		46-60			BSAC827706 16C241	1.5							Renaull
15:22:35		46-61 MK			BSAC827707 16C295	1.5							Renaull
16:10:29		46-62 MK			BSAC827710 16C294	1.5							Renaull

DATE / TIME	COLUMN	RUN #	REPORTED	% RECOVERY	SOLUTION OR SAMPLE #	SOLUTION	COLUMN (in)	INJECTION VOLUME (µl)	SCAN CODE	TEMPERATURE (°C)	CARRIER FLOW (cc/min)	DETECTOR	INJECTOR TEMPERATURE (°C)	ANALYST
9/9/87	K-2	4611			PS1752	—				144	83	29	271	Rondell
9:29:48	1	4612			PS1751	—								Rondell
9:03:31		4613			PS1781	—								Rondell
10:32:32		4614			PS1780	—								Rondell
10:11:57		4615			PS1758	—								Rondell
10:43:23		4616			PS1789	—								Rondell
11:14:45		4617			PS1732	—								Rondell
11:46:11		4618			PS1736	—								Rondell
22:17:36		4614			PS1761	—								Rondell
22:49:02		4620			PS1763	—								Rondell
23:20:33		4621			PS1766	—								Rondell
23:52:18		4622			PS1764	—								Rondell
0:24:07		4623			PS1767	—								Rondell
0:55:32		4624			PS1790	—								Rondell
1:26:59		4625			BSACE19755	1								Rondell
1:58:30		4626			BSACE19755H3	1½								Rondell
2:31:40		4627			BSACE19755H30	1½								Rondell
3:03:15		4628			BSACE1975C-4	1								Rondell
3:34:43		4629			BSACE19781	1								Rondell
[illegible]		4630			[illegible]	—								Rondell
4:37:03		4631			BSACE19758	1.5								Rondell
5:08:41		4632			BSACE19789	1.5								Rondell
5:40:34		4633			BSACE1978C	1.5								Rondell
6:12:39		4634			BSACE1978C H3	3C								Rondell
6:44:32		4635			BSACE1978C H30	3C								Rondell
		4636 MC			MC									Rondell
23:40:[illegible]		4636			[illegible]	—								[illegible]

Modified

M. Riddle

ANALYST	COLUMN	DATE/TIME	Reported	RUN Number	SOLUTION OR SAMPLE NUMBER	SOLUTION VOLUME (µL)	INJECTION VOLUME (µL)	SCAN CODE	TEMPERATURE (°C)	CARRIER FLOW (cc/min)	DETECTOR FLOW (cc/min)	DETECTOR TEMPERATURE (°C)	METHOD
Romanelli	R-3	16:42:01		4663	BSA08277111 760303				199	83	21	299	
Romanelli		17:17:54		4664	BSA08277105 760287								
Romanelli		18:00:41		4665	PS1781								
Romanelli		18:31:48		4666	BSA0819785 759870								
Romanelli		19:03:18		4667	BSA08197890 759890								
Romanelli		19:34:40		4668	BSA0819786 759874								
Romanelli	↓	20:06:11		4669	PS1789								

CH. Middle

ANALYST	COLUMN	DATE/TIME	Reported	Run Number	Solution or Sample Number	Solution Volume (ml)	Injection Volume (µl)	Scan Code	Temperature (°C)	Carrier Flow (cc/min)	Detector Flow (cc/min)	Detector Temperature °C	METHOD
Bonarelli	SPB 608	9/14/87 9:29:33		152	PS1782	—	1						
Bonarelli		10:19:58		153	PS1781	—	1						
Bonarelli		11:10:40		154	PS1780	—	1						
Bonarelli		12:01:33		155	PS1788	—	1						
Bonarelli		12:52:39		156	PS1789	—	1						
Bonarelli		13:42:38		157	PS1730	—	1						
Bonarelli		14:32:56		158	PS1761	—	1						
Bonarelli		15:25:49		159	BSA0819786 759874	1.5	1						
Bonarelli		16:21:12		160	BSA0819787 759878	1.5	1						
Bonarelli		17:18:18		161	BSA0819788 759882	1.5	1						
Bonarelli		18:15:03		162	BSA0819789 759886	1.5	1						
Bonarelli		19:10:01		163	BSA0819790 759890	1.5	1						
Bonarelli		20:04:01		164	PS1781	—	1						
Bonarelli		20:56:49		165	BSA0819799 759894	1.5	1						
Bonarelli		21:49:03		166	FIELD BLANK 759902	1.5	1						
Bonarelli		22:41:30		167	BSA0827710 760291	1.5	1						
Bonarelli		23:33:53		168	BSA0827710 760295	1.5	1						
Bonarelli		00:25:19		169	BSA0827711 760299	1.5	1						
Bonarelli		1:16:31		170	PS1788	1.5	1						
Bonarelli		2:07:32		171	BSA0827711 760303	1.5	1						
Bonarelli		2:58:47		172	PS1781	~~1.5~~	1						

RUNS152-173

```
LIST: WKFILE @

WORKFILE ID: B
WORKFILE NAME:

RUN PRMTRS
ZERO   =  20
ATT 2↑ =  4
CHT SP =  1.0
PK WD  =  0.04
THRSH  =  5
AR REJ =  20000

RPRT OPTNS
  2. RF UNC PKS=       0.0000E+00
  3. MUL FACTOR=       1.0000E+00
  4. PK HEIGHT MODE       NO
  5. EXTEND RT            NO
  6. RPRT UNC PKS         NO

TIME TBL
   0.10 CHT SP =  0.1
   0.10 INTG # =  9
   3.00 INTG # =  -9
  10.00 CHT SP =  1.0

CALIB TBL
EMPTY

  7. SUPPRESS RPRT        NO
  8. TRANSMIT RPRT        NO
  9. HDW RDY DELAY        NO
 10. AUTOMATE RUNS        NO
 11. SAMPLER PRMTRS
 12. TRANSMIT PEAKS       NO
 13. TRANSMIT POINTS      NO
 14. SLICE WIDTH=      5.0000E-02
 15. ID:
 16. ISTD AMT=
     SAMPLE AMT=
 17. INSTR NETWORK CONFIG TBL
 18. NEXT WORKFILE:
     RUNS/SUBSEQ:
 19. TIME SCALE           NO
 20. SAMPLE TBL
     EMPTY


HP 5890A GAS CHROMATOGRAPH
  LOOP ADDRESS: 2

 OVEN TEMP =  40    SETPT =  40
  EQUIB TIME  = 1.00          CRYO OFF
  OVEN MAXIMUM = 350
  INITIAL TEMP =  40
  INITIAL TIME = 4.00

 TEMP PRGM: RATE   FINAL TEMP   FINAL TIME
            70.0       150         2.00
  RAMP A    10.0       285         8.00
  RAMP B    15.0       290        12.00

 RUN LENGTH = 38.73 MIN

 INJ A TEMP =  39  | SETPT = 200  (OFF)
 INJ B TEMP = 200  | SETPT = 200
 DET A TEMP = 300  | SETPT = 300
 DET B TEMP =  27  | SETPT = 300  (OFF)

 FLOW A =   1.3   (HE)
 FLOW B =  66.3   (HE)

 SIGNAL 1 = A - COMP 1
  INET RANGED DATA ON
  RANGE = 2
  ZERO  = 0.0
  ATTN  = 0  (OFF)

 SIGNAL 2 = A
  RANGE = 0
  ZERO  = 0.0
  ATTN  = 0

 DETECTOR A = ECD  (ON)

 PURGE A  = OFF
 PURGE B  = OFF
  ON TIME = 4.00     OFF TIME = 0.00


7673A SAMPLER:
 LOOP ADDRESS:  1

 REAR INJECTOR
  INJ/BOTTLE                1
  FIRST BOTTLE              1
  LAST BOTTLE               3
  # OF SAMPLE WASHES        2
  # OF PUMPS                5
  VISCOSITY                 0
  VOLUME                    1
  # OF SOLVENT A WASHES     2
  # OF SOLVENT B WASHES     0
  PRIORITY SAMPLE (1=YES)   0
  CAPILLARY ON-COLUMN       0


THRSH
ESCAPE


OP #  1   0  @
     AUTOMATE RUNS      YES

OP #  1   3  @
     TRANSMIT POINTS    YES

OP #  1   1  @

7673A SAMPLER:
 LOOP ADDRESS:  1

 REAR INJECTOR
  INJ/BOTTLE          1 -->   @
  FIRST BOTTLE        1 -->   @
  LAST BOTTLE         3 -->    7  @
  # OF SAMPLE WASHES  2 -->   @
  # OF PUMPS          5 -->   @
  VISCOSITY           0 -->   @
  VOLUME              1 -->   @
  # OF SOLVENT A WASHES  2 -->   @
  # OF SOLVENT B WASHES  0 -->   @
  PRIORITY SAMPLE (1=YES)  0 -->   @
  CAPILLARY ON-COLUMN  0 -->   @
```

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BN/AE EXTRACTIONS

LAB #	759815	759866	759867	Blank 181	FB 759935	TB 759936	Soil #1 759869 BSA 081986 MS	Soil #1 759869 BSA 081986 MSD	Soil #1 759869 BSA 081986 PP	Soil #2 759873 BSA 081986 PP
TYPE OF EXTRACTION	Ae	Ae	Ae	BN/Ae	BN/Ae	BN/Ae	BN/Ae	BN/Ae	BN/Ae	BN/Ae
DATE EXTRACTED	8-25	8-25	8-25	8-25	8-25	8-25	8-26-86	8-26	8-26-86	8-26-86
DATE RECEIVED										
INIT OF EXTRACTIONIST	YAB	YAB	YAB	YAB	YAB	YAB	YAB	YAB	YAB	YAB
SAMPLE VOLUME	1000ml	1000ml	1000ml	1000ml	1000ml	1000ml	2.0043g	2.0046g	2.0007g	5.0026g
SURROGATE STANDARD #	PH193	PH193	PH193	BN486 PH193	BN486 PH193	BN486 PH193	BN486 PH193	BN486 PH193	BN486 PH193	BN486 PH193 PS1793
VOLUME S.S.	1ml	1ml	1ml	1ml	1ml	1ml	1ml	1ml	1ml	1ml
SPIKE #									PS1793 1ml	
VOLUME SPIKE										
NUMBER OF EXTRACTIONS	3	3	3	3	3	3	3	3	3	3
TOTAL VOL. OF SOLVENT	180	180	180	180	180	180	180	180	180	180
pH	<2	<2	<2	>11/<2	>11/<2	>11/<2	>11/<2	>11/<2	>11/<2	>11/<2
Na_2SO_4 USED? (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
WAS SAMPLE EXTRACTED PREV?	N	N	N	N	N	N	N	N	N	N
TIME USED TO CONCENTRATE	45min	45min	45min	45min	45min	45min	45min	45min	45min	
DATE/INIT IF NOT AS ABOVE										
H_2O BATH TEMP. °C	60°	60°	60°	60°	60°	60°	60°	60°	60°	60°
BN	—	—	—	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml
Ae	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml
PP	—	—	—	—	—	—	—	—		
									double spiked BN-PH	
PHENOL d_5 RECOVERY %										
2-FLOUROPHENOL RECOVERY %										
2,4,6 RIBROMOPHENOL RECOVERY %										
NITROBENZENE d_5 RECOVERY %										
2-FLOURO BIPHENYL RECOVERY %										
TERPHENYL d_{14}										

BN/AE EXTRACTIONS

LAB #	758 882 MS	758 882 MSD	BLK 179	SW#1 959889 BSA 08197890	SW#1 759893 BSA 08197891	SW#2 759897 BSA 08197892	Field Blank 759901	Blank 180	GW#1 759884 BBA 08197889 MS	GW#1 759884 BSA 08197890 MSD
TYPE OF EXTRACTION	BN/Ac	BN/Ac	BN/Ac	Ac/BN/PP	Ac/BN/PP	Ac/BN/PP	Ac/BN/PP	BN/Ac	BN/Ac	BN/Ac
DATE EXTRACTED	8-19	8-19	8-19	8-22	8-22	8-22	8-22	8-22	8-22	8-22
DATE RECEIVED										
INIT OF EXTRACTIONIST			LBB							
SAMPLE VOLUME	500 mL	500 mL	1000 mL	500 mL	1000 mL	1000 mL	1000 mL	1000 mL	500 mL	500 mL
SURROGATE STANDARD #	BN 486 PH 193	BN 486 PH 193	BN 486 PH 193	BN486 PH193 PS1786	BN486 PH193 PS1786	BN486 PH193 PS1786	BN 486 PH 193 PS1786	BN486 PH193 PS1786	BN486 PH193	BN486 PH 193
VOLUME S.S.	1 mL 1 mL	1 mL 1 mL	1 mL 1 mL	1 mL 1 mL	1 mL 1 mL	1 mL 1 mL	1 mL 1 mL	1 mL 1 mL	1 mL 1 mL	1 mL 1 mL
SPIKE #	BN 484 PH 191	BN 484 PH 191							BN484 PH191	BN484 PH191
VOLUME SPIKE	1 mL 1 mL	1 mL 1 mL							1 mL 1 mL	1 mL 1 mL
NUMBER OF EXTRACTIONS	3	3	3	3	3	3	3	3	3	3
TOTAL VOL. OF SOLVENT	180	180	180	180	180	180	180	180	180	180
pH	>11/<2	>11/<2	>11/<2	<2/	<2/>11	<2/>11	<2/>11	<2/>11	<2/>11	<2/>11
Na_2SO_4 USED? (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
WAS SAMPLE EMULSIFIED? (Y/N)	N	N	N	N	N	N	N	N	N	N
TIME USED TO CONCENTRATE	45 min	45 min	45 min	45 min	45 min	45 min	45 min	45 min		
INITIATE/INIT EXTRACT AS ARCVE										
H2O BATH TEMP. °C	60°	60°	60°	60°	60°	60°	60°	60°		
SPIKE [ ] BN	.5 mL	.5 mL	.5 mL	0.5 mL	0.5 mL	0.5 mL	0.5 mL	0.5 mL		
Ae	.5 mL	.5 mL	.5 mL	0.5 mL	0.5 mL	0.5 mL	0.5 mL	0.5 mL		
PP	—	—	—					—	—	—
PHENOL d_5 RECOVERY %										
2-FLOUROPHENOL RECOVERY %										
2,4,6-BROMOPHENOL RECOVERY %										
NITROBENZENE d_5 RECOVERY %										
2-FLOURO BIPHENYL RECOVERY %										
TERPHENYL d_{14}										

BN/AE EXTRACTIONS

LAB #	759815	759868	759867	Blank 181	FB 759935	TB 759936	soil#1 759869 BSA081978S	soil#1 759869 BSA 081978S	soil#1 759869 BSA 081978S	soil#2 759873 BSA 081978S
TYPE OF EXTRACTION	Ae	Ae	Ae	BN/Ae	BN/Ae	BN/Ae	MS BN/Ae	MSD BN/Ae	pp BN/Ae	pp BN/Ae
DATE EXTRACTED	8-25	8-25	8-25	8-25	8-25	8-25	8-26-81	8-26	8-26-81	8-26-81
DATE RECEIVED										
INIT OF EXTRACTIONIST	YAB	YAB	YAB	YAB	YAB	YAB	YAB	YAB	YAB	YAB
SAMPLE VOLUME	1000ml	1000ml	1000ml	1000ml	1000ml	1000ml	2.0043g	2.0046g	2.0007g	5.0026g
SURROGATE STANDARD #	PH193	PH193	PH193	BN486 PH193	BN486 PH193	BN486 PH193	BN486 PH193	BN486 PH193	BN486 PH193	BN486 PH193 PS1793
VOLUME S.S.	1ml	1ml	1ml	1ml	1ml	1ml	1ml	1ml	1ml	1ml 1ml 1ml
SPIKE #									PS1793 1ml	
VOLUME SPIKE										
NUMBER OF EXTRACTIONS	3	3	3	3	3	3	3	3	3	3
TOTAL VOL. OF SOLVENT	180	180	180	180	180	180	180	180	180	180
pH	<2	<2	<2	>11/<2	>11/<2	>11/<2	>11/<2	>11/<2	>11/<2	>11/<2
Na_2SO_4 USED? (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
WAS SAMPLE EXTRACTED PRIOR	N	N	N	N	N	N	N	N	N	N
TIME USED TO CONCENTRATE	45min	45min	45min	45min	45min	45min	45min	45min	45min	
DATE/INIT IF NOT AS ABOVE										
H_2O BATH TEMP. °C	60°	60°	60°	60°	60°	60°	60°	60°	60°	60°
BN	—	—	—	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml
Ae	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml	0.5ml
PP	—	—	—	—	—	—	—	—		
									double spiked BN+PH	
PHENOL d_5 RECOVERY %										
2-FLOUROPHENOL RECOVERY %										
2,4,6 TRIBROMOPHENOL RECOVERY %										
NITROBENZENE d_5 RECOVERY %										
2 FLOURO BIPHENYL RECOVERY %										
TERPHENYL-d_{14} RECOVERY										

BN/AE EXTRACTIONS

LAB #	Blank 182	Soil 3 759877 BSA 0819787	Soil 4 759881 BSA 0819789	Soil 5 759885 BSA 0819789	Blank 183	759933 MW2	759933 MW2 MS	759933 MW2 MSD	759934 MW3C	Soil 9 760306 BSA 08277112
TYPE OF EXTRACTION	PP BN/Ae	PP BN/Ae	PP BN/Ae	PP BN/Ae	BN/Ae	BN/Ae	BN/Ae	BN/Ae	BN/Ae	PP BN/Ae
DATE EXTRACTED	8-26	8-26	8-26	8-26	8-28	8-28	8-28	8-28	8-28	9-2
DATE RECEIVED										
INIT OF EXTRACTIONIST										
SAMPLE VOLUME		5.0037g	5.0009g	5.0029g		10.1663	10.0054g	10.0589	10.0405	10.3934g
SURROGATE STANDARD #	PH193 BN486 PS1756	PH193 BN486 PS1756	PH193 BN486 PS1756	PH193 BN486 PS1756	PH193 BN486	PH193 BN486	PH193 BN486	PH193 BN486	PH193 BN486	PH193 BN486 PS1756
VOLUME S.S.	~~1ml~~ 1ml 1ml	~~1ml~~ 1ml 1ml	~~1ml~~ 1ml 1ml	~~1ml~~ 1ml 1ml	~~1ml~~ 1ml 1ml	~~1ml~~ 1ml	~~1ml~~ 1ml	~~1ml~~ 2ml	~~1ml~~ 1ml	~~1ml~~ 1ml 1ml
SPIKE #							BN PH			
VOLUME SPIKE							1ml 1ml	1ml 1ml		
NUMBER OF EXTRACTIONS										
TOTAL VOL. OF SOLVENT	180	180	150	180	180	150	180	150	150	150
pH	<2/11	<2/	<2/11	<2/	<2/	<2/	<2/11	<2/11	<2/11	<2/11
Na_2SO_4 USED? (Y/N)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
WAS SAMPLE EXTRACTED PRIOR	N	N	N	N	N	N	N	N	N	N
TIME USED TO CONCENTRATE										
DATE / INIT IF NOT AS ABOVE										
H_2O BATH TEMP. °C										
BN		0.5ml	05	05	05	05	05	05	05	0.5ml
Ae		0.5	05	05	05	05	05	05	05	0.5ml
PP										
					Mixed 2 BNs			BN #6		
PHENOL d_5 RECOVERY %										
2-FLOUROPHENOL RECOVERY %										
2,4,6 TRIBROMOPHENOL RECOVERY %										
NITROBENZENE d_5 RECOVERY %										
2 FLOURO BIPHENYL RECOVERY %										
TERPHENYL d_{14} RECOVERY										

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Lab #	Case #	Glassware Code	Date rec.	Date extr.	Extr. by	Conc. by	Sample Vol. (ml)	pH	Solvent (ml)	Surrog. #	ml	Spike #	ml	Remarks
760019				8/25										
020				↓										
021														
018				↓										
760022	XMS CIA			8/27	SJD		[redacted]		2 [redacted]			PS 1777	2	
023	↓			↓	↓		↓		↓			↓	↓	
024	↓			↓	↓		↓		↓			↓	↓	
3-476	[redacted]			8/28	SJD		[redacted]		[redacted]			PS 1786	1	[redacted]
[redacted]	[redacted]	BSA 089785	↓	8/28	SJD		4.3g	5mL		PS 1756	1	PS 1793	1/2	
[redacted]	[redacted]	↓		↓	↓		4.3g	5mL		↓	↓	↓	↓	
[redacted]	[redacted]	BSA 089790		↓	↓		2g	3ml						
[redacted]	[redacted]	↓					2g	3ml						