

TINKHAM

7.2

14657

APPENDIX C

CLP RAS 3/90 SOW VOA

NET FD CASE NUMBER 1423



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Cambridge Division
12 Oak Park
Bedford, MA 01730
Tel: (617) 275-3535
Fax: (617) 275-7411

June 21, 1995

Mr. Bob Mullin
GEI Consultants/NH
Suffolk Building
53 Regional Drive
Concord, NH 03301

RECEIVED

JUN 22 1995

**GEI CONSULTANTS, INC.
CONCORD, NH**

RE: Tinkham Project
project# 92113

Dear Mr. Bob Mullin:

Enclosed please find the results of the chemical analyses performed by NET Cambridge Division for the Tinkham Project (FD Case 1423 NET job numbers 95.01918, 95.01955, 95.02056).

This narrative addresses all comments for all samples as listed below:

NET JOB NUMBER: 95.01918, 95.01955, 95.02056

SAMPLE ID	NET ID	DATE TAKEN	TIME TAKEN	DATE REC'D	MATRIX
92113-LGAW-0595 +MS/MSD	124047	05/23/1995	13:30	05/25/1995	GROUND WATER
92113-LGSW-0595	124048	05/23/1995	14:05	05/25/1995	GROUND WATER
92113-RD-D-0595	124049	05/23/1995	17:00	05/25/1995	GROUND WATER
92113-OW2D-0595 +MS/MSD	124146	05/24/1995	16:40	05/26/1995	GROUND WATER
92113-FW11D-0595	124147	05/24/1995	16:55	05/26/1995	GROUND WATER
92113-NAI-C1-0595	124277	05/25/1995	10:50	05/26/1995	GROUND WATER
92113-ERT06-0595	124278	05/25/1995	10:30	05/26/1995	GROUND WATER





NATIONAL
ENVIRONMENTAL
TESTING, INC.

Cambridge Division
12 Oak Park
Bedford, MA 01730
Tel: (617) 275-3535
Fax: (617) 275-7411

All laboratory comments for the data packages have been summarized in the following tables:

Sample Receipt and Login	TABLE 1
Metals and Cyanide Analyses	NO ANALYSIS REQUESTED
Volatile Organics Analyses	TABLE 3
Semi-Volatile Organics Analyses	NO ANALYSIS REQUESTED
Pesticide/PCB Organics Analyses	NO ANALYSIS REQUESTED
Herbicides Analyses	NO ANALYSIS REQUESTED
General Chemistry Analyses	NO ANALYSIS REQUESTED

These narrative tables are also enclosed with each data package section.

Please find enclosed a diskette of the results for this case.

Thank you for this opportunity to be of service to you. Please do not hesitate to call or write if you have any questions or require further information.

Sincerely,

Kerri M. Cattabriga
Kerri M. Cattabriga
Project Manager

enclosures



ANALYTICAL REPORT

Report To: Mr. Bob Mullin
GEI Consultants/NH
Suffolk Building
53 Regional Drive
Concord, NH 03301

Project: Tinkham Project
FD Case 1423
Section One

NET Job Number: 95.01918
95.01955
95.02056

National Environmental Testing

NET Atlantic, Inc.
Cambridge Division
12 Oak Park
Bedford, MA 01730

Massachusetts Certification Number
M MA023

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1F. Data Qualifier/Flag Descriptions	<u>10013</u>
1G. Document Inventory Sheets.....	<u>10014</u>
1H. Control Charts.....	<u>NR</u>
Section 2. Metals/Cynaide Analysis Data.....	No Analysis Requested
Section 3. Volatiles Analysis Data.....	30000
Section 4. Semi-Volatiles Analysis Data.....	No Analysis Requested
Section 5. Pesticides/PCB's Analysis Data.....	No Analysis Requested
Section 6. Herbicide Analysis Data.....	No Analysis Requested
Section 7. General Chemistry Analysis Data.....	No Analysis Requested



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Cambridge Division
12 Oak Park
Bedford, MA 01730
Tel: (617) 275-3535
Fax: (617) 275-7411

June 21, 1995

Mr. Bob Mullin
GEI Consultants/NH
Suffolk Building
53 Regional Drive
Concord, NH 03301

RE: Tinkham Project
project# 92113

Dear Mr. Bob Mullin:

Enclosed please find the results of the chemical analyses performed by NET Cambridge Division for the Tinkham Project (FD Case 1423 NET job numbers 95.01918, 95.01955, 95.02056).

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92113-NAI-C1-0595	124277	05/25/1995	10:50	05/26/1995	GROUND WATER
92113-ERT06-0595	124278	05/25/1995	10:30	05/26/1995	GROUND WATER

10002





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ENVIRONMENTAL
TESTING, INC.

Cambridge Division
12 Oak Park
Bedford, MA 01730
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General Chemistry Analyses	NO ANALYSIS REQUESTED

These narrative tables are also enclosed with each data package section.

Please find enclosed a diskette of the results for this case.

Thank you for this opportunity to be of service to you. Please do not hesitate to call or write if you have any questions or require further information.

Sincerely,

Kerri M. Cattabriga
Project Manager

enclosures

10003



TABLE 1
SAMPLE RECEIPT & LOGIN
FD 1423

GENERAL COMMENTS: No comments were necessary.

TABLE 3
VOLATILES ORGANICS NARRATIVE SUMMARY
FD 1423

GENERAL COMMENTS: The samples were analyzed using method OLM01.9
Due to software constraints the "0595's" were dropped from the
CLIENT ID's.

MANUAL INTEGRATIONS: Manual integrations are performed on
standards and samples when the integration is not complete due to
peak shape and chromatography. This is confirmed by visual
inspection by the analysts. The "M" flag indicates that a manual
integration has been performed.

The "Y" flag indicates that the compound was edited on the
RTE/MS data system.

#17- Total 1,2-Dichloroethene must be integrated in the initial
and continuing calibration standards to include the total area of
the cis- and trans- isomers.

SURROGATES: All system monitoring compound recoveries were
within the contract required QC limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE(s): Two sets of MS/MSD's
were analyzed. All results are reported. All spike recoveries
were within QC limits for the MS/MSD analysis. All RPDs were
within the required limits. No corrective action is required as
per the SOW.

BLANKS: A method blank was analyzed for each twelve hour time
period on each GC/MS system used for analysis. No blank
contained greater than five times the CRQL of Methylene Chloride,
Acetone, and 2-Butanone, or greater than or equal to the CRQL of
any other volatile target compound.

TUNE: All instrument performance check criteria were met prior
to the start of sample analysis.

CALIBRATION: All compounds met the required minimum RF's and maximum RPD's or %D.

INTERNAL STANDARDS: All internal standard areas and retention times were within the QC limits.

HOLDING TIMES: All samples were analyzed within contract required holding times.

DILUTIONS: Two samples required dilutions.

Sample 92113FW11D (NET ID 124147) exceeded standard calibration for Trichloroethene and was reanalyzed with a 1:5 dilution.

Sample 921130W2D (NET ID 124146) exceeded standard calibration for 1,2-Dichloroethene(total) and was reanalyzed with a 1:10 dilution.

pH Values: A pH value of 1 was determined for all of the volatile samples.

NET Cambridge Division

ANALYTICAL REPORT

Report To:

Mr. Bob Mullin
GEI Consultants/NH
Suffolk Building
53 Regional Drive
Concord, NH 03301

Reported By:

National Environmental Testing
NET Atlantic, Incorporated
Cambridge Division
12 Oak Park
Bedford, MA 01730

Report Date: June 21, 1995

NET Job Number: 95.01918,
95.01955, 95.02056

Project: Tinkham Project

NET Client No: 14755

P.O. No: 7341

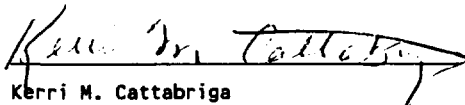
Collected By: CLIENT

Shipped Via: FEDEX

Job Description: project# 92113

Airbill No: 3763072165

This report has been approved and certified for release by the following staff. Please feel free to call the NET Project Manager at 617-275-3535 with any questions or comments.


Kerri M. Cattabriga
NET Project Manager


Report prepared by
NET Reports Group

Analytical data for the following samples are included in this data report.

SAMPLE ID	NET ID	DATE TAKEN	TIME TAKEN	DATE REC'D	MATRIX
92113-LGAW-0595 +MS/MSD	124047	05/23/1995	13:30	05/25/1995	GROUND WATER
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92113-RD-D-0595	124049	05/23/1995	17:00	05/25/1995	GROUND WATER
92113-OW2D-0595 +MS/MSD	124146	05/24/1995	16:40	05/26/1995	GROUND WATER
92113-FW11D-0595	124147	05/24/1995	16:55	05/26/1995	GROUND WATER
92113-NAI-C1-0595	124277	05/25/1995	10:50	05/26/1995	GROUND WATER
92113-ERT06-0595	124278	05/25/1995	10:30	05/26/1995	GROUND WATER

10007



CHAIN OF CUSTODY RECORD

COMPANY GEI CONSULTANTS, INC
ADDRESS 53 REGIONAL DRIVE, CONCORD, NH
PHONE 603 224-7779 FAX 603 224 7770
PROJECT NAME/LOCATION TINKHAM KARABE / LONDON TERRACE
PROJECT NUMBER 92113
PROJECT MANAGER BOB MULLIN

REPORT TO: BOB MULLIN

INVOICE TO: BOB MULLIN

7341

PROJECT MANAGER BOB MULLN

SAMPLED BY

PRINT NAME) RICHARD VAN ETTEN

SIGNATURE

(PRINT NAME)

SIGNATURE

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers				
						HCl	NaOH	HNO ₃	H ₂ SO ₄	OTHER
5/6/95	09:10	92113-NAI-M1-0595	AR	✓		3				
"	09:40	92113-NAI-M2-0595	AR	✓		3				
"	10:50	92113-NAI-C1-0595	AR	✓		3				
"	08:45	92113-NAI-K2-0595	AR	✓		3				
"	10:30	92113-FW09-0595	AR	✓		3				
"	10:30	92113-IRT06-0595	AR	✓		3				
5/6/95	08:45	92113-WX525-0595	AR	✓		3				

ANALYSES

[illegible]

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring?

Is this work being conducted for regulatory enforcement action?

Which regulations apply: RCRA _____ NPDES Wastewater _____

CEPCLA

COMMENTS

$$ms/msd \text{ of } 77815594 \text{ if } 725518\bar{E}$$

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / NO

COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO

TEMPERATURE UPON RECEIPT: _____
Bottles supplied by NET? YES / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA _____

ENT VIA _____
AMPLE REMAINDERS

DATE 5/25/95

RELINQUISHED BY:

TIME

RECEIVED BY:

RELINQUISHED BY:

DATE _____

RECEIVED FOR NET BY:

METHOD OF SHIPMENT

REMARKS:



NATIONAL
ENVIRONMENTAL
TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY GET CONSULTANTS, INC.
ADDRESS 53 REGIONAL DR, CONCORD, NH
PHONE 603 224 7779 FAX 603 224 7790
PROJECT NAME/LOCATION TRAKHAM GARAGE / LONDONDERRY
PROJECT NUMBER 92113
PROJECT MANAGER BOB MULLIN

REPORT TO: BOB MULLIN
INVOICE TO: BOB MULLIN
P.O. NO. 7341

NET QUOTE NO. _____

SAMPLED BY RICHARD VAN ETTEN SIGNATURE R. Van ETTEN
(PRINT NAME)
DTK; SAB; DAM; PUL SIGNATURE
(PRINT NAME)

ANALYSES										COMMENTS													
DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	HCl	NaOH	HNO ₃	H ₂ SO ₄	OTHER	684 VOCs	MODIFIED VOCs	CLP 50M VOCs										
5/24/95	07:25	92113 - FW25-0595	AQ	✓	✓	2 VOA					X												
"	07:30	92113 - FW25D-0595	AQ	✓	✓	2 VOA					X												
"	07:30	92113 - NAI-E-0595	AQ	✓	✓	2 VOA					X												
"	07:42	92113 - NAI-A1-0595	AQ	✓	✓	2 VOA					X												
"	10:30	92113 - FW12-0595	AQ	✓	✓	2 VOA					X												
"	10:34	92113 - NAI-H-0595	AQ	✓	✓	2 VOA					X												
"	11:20	92113 - FW13-0595	AQ	✓	✓	2 VOA					X												
"	11:25	92113 - FW26D-0595	AQ	✓	✓	2 VOA					X												
"	13:10	92113 - FW11-0595	AQ	✓	✓	2 VOA					X			MS/MSD IF POSSIBLE									
"	14:15	92113 - FW28D-0595	AQ	✓	✓	2 VOA					X												
"	14:35	92113 - FW27-0595	AQ	✓	✓	2 VOA					X												
"	14:45	92113 - FW10D-0595	AQ	✓	✓	2 VOA					X												
"	16:25	92113 - FW20-0595	AQ	✓	✓	2 VOA					X												
"	16:35	92113 - EXT03-0595	AQ	✓	✓	2 VOA					X												
5/24/95	16:40	92113 - ON22D-0595	AQ	✓	✓	2 VOA					X			MS/MSD (CLP) IF POSSIBLE									

To assist us in selecting the proper method	
Is this work being conducted for regulatory compliance monitoring?	Yes ☒ No ☐
Is this work being conducted for regulatory enforcement action?	Yes ☒ No ☐
Which regulations apply: RCRA ☐ NPDES Wastewater ☐ UST ☐ Drinking Water ☐ Other ☒ None ☐	
CERCLA	

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / NO

COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO

TEMPERATURE UPON RECEIPT: _____
Bottles supplied by NET? YES / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA
REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS

DATE 5/25/95

RELINQUISHED BY: R. Van ETTEN
DATE 5/25/95
TIME 13:00

RECEIVED BY: FED EX-AIR BILL 3763070165
DATE 5/26
TIME 1400

RECEIVED FOR NET BY: McCartum

METHOD OF SHIPMENT

FED EX PRIORITY

10009



CHAIN OF CUSTODY RECORD

COMPANY GET CONSULTANTS, INC
ADDRESS 53 REGIONAL DR., CONCORD, NH
PHONE 603 224 7979 FAX 603 224 7990
PROJECT NAME/LOCATION TINKHAM GARAGE / CONCORD, NH
PROJECT NUMBER 92113
PROJECT MANAGER BOB MOLLIN

REPORT TO: BOB MULLIN

INVOICE TO: BOB MULLIN

P.O. NO. 7341

NET QUOTE NO.

NET QUOTE NO.

SAMPLED BY

2 Km E.H.

SIGNATURE

PRINT NAME) DTK; ICB, DAM, PGL
PRINT NAME)

SIGNATURE

and Type of Containers

HCl
NaOH
HNO ₃
H ₂ SO ₄
OTHER

MATRIX	GRAB	COMP
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DATE	TIME	SAMPLE ID/DESCRIPTION
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[illegible]

CONDITION OF SAMPLE:	BOTTLES INTACT? YES / NO
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COC SEALS PRESENT AND INTACT? YES / NO	
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TEMPERATURE UPON RECEIPT:

Bottles supplied by NET? YES / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA _____

100

3

5/95

RELINQUISHED BY:

TIME

RECEIVED BY:

BEI ANGEKLAGTEN AB:

DATE _____

TIME

R. Van Esten

13:00

FED EX - AIR BU 3763072165

5/21/

TIME

RECEIVED FOR NET BY: *W. J. McCarty*

METHOD OF SHIPMENT

REMARKS:

REMARKS:

1

Page 20



COMPANY GET CONSULTANTS, INC.
ADDRESS 53 REGIONAL DRIVE, CONCORD, NH
PHONE 603 224 7979 FAX 603 224 7970
PROJECT NAME/LOCATION TINKHAM GARAGE / CONDO NEXT DOOR
PROJECT NUMBER 92113
PROJECT MANAGER BOB MULLIN

REPORT TO: BOB MULLIN
INVOICE TO: BOB MULLIN
P.O. NO. 7341
NET QUOTE NO. _____

SAMPLED BY RICHARD VAN ETTEN SIGNATURE R. Van ETTEN
(PRINT NAME) DAM, PGL, DTK, JAB
(PRINT NAME)

To assist us in selecting the proper method
Is this work being conducted for regulatory compliance monitoring? Yes ☒ No ☐
Is this work being conducted for regulatory enforcement action? Yes ☒ No ☐
Which regulations apply: RCRA ☐ NPDES Wastewater ☐
UST ☐ Drinking Water ☐
Other ☒ None ☐
CERCLA

ANALYSES
624 VOCs
Modified VOCs
CLP Solv VOCs
Total Metals, Zn

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	HCl	NaOH	HNO ₃	H ₂ SO ₄	OTHER	# and Type of Containers
5/23/0850		92113 - FW21D-0595	AQ	✓		2	2	2	2	2	2
" 95 0930		92113 - FW16 -0595	AQ	✓		2	2	2	2	2	2
" 0935		92113 - FW21 -0595	AQ	✓		2	2	2	2	2	2
" 0950		92113 - ERT08 -0595	AQ	✓		2	2	2	2	2	2
" 1035		92113 - MP-L-35-0595	AQ	✓		2	2	2	2	2	2
" 1045		92113 - FW03D -0595	AQ	✓		2	2	2	2	2	2
" 1055		92113 - MP-L-2D-0595	AQ	✓		2	2	2	2	2	2
" 1115		92113 - ERT01-0595	AQ	✓		2	2	2	2	2	2
" 1220		92113 - ERT02 -0595	AQ	✓		2	2	2	2	2	2
" 1245		92113 - FW24D -0595	AQ	✓		2	2	2	2	2	2
" 1730		92113 - WX523 -0595	AQ	✓		2	2	2	2	2	2
" 1310		92113 - MP-L-15 -0595	AQ	✓		2	2	2	2	2	2
" 1330		92113 - LGAW -0595	AQ	✓		2	2	2	2	2	2
" 1340		92113 - MP-I-35-R-0595	AQ	✓		2	2	2	2	2	2
5/23/1405		92113 - LGSW -0595	AQ	✓		2	2	2	2	2	2

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / NO

COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO

TEMPERATURE UPON RECEIPT: _____
Bottles supplied by NET? YES / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA _____
REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
R. Van ETTEN	5/21/05	06:30	FED EX. AIR BILL 2226042011	5/25	11:00
METHOD OF SHIPMENT			REMARKS:		
FED EX.			Michael McEwen		



10011



NATIONAL
ENVIRONMENTAL
TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY GET CONSULTANTS INC
ADDRESS 53 REGIONAL DRIVE CONCORD, NH
PHONE 603 224 7979 FAX 603 224 7970
PROJECT NAME/LOCATION TINKHAM GARAGE/LONDONDERBY
PROJECT NUMBER 92113
PROJECT MANAGER BOB MULLIN

REPORT TO: BOB MULLIN
INVOICE TO: BOB MULLIN
P.O. NO. 7341

NET QUOTE NO. _____

SAMPLED BY RICHARD VAN LITTEN
(PRINT NAME)

DAM. PGL; DTK; JAB
(PRINT NAME)

SIGNATURE

SIGNATURE

ANALYSES

To assist us in selecting the proper method
Is this work being conducted for regulatory compliance monitoring? Yes ☒ No ☐
Is this work being conducted for regulatory enforcement action? Yes ☒ No ☐
Which regulations apply: RCRA ☐ NPDES Wastewater ☐
UST ☐ Drinking Water ☐
Other ☒ CERCLA

COMMENTS

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	HCl	NaOH	HNO ₃	H ₂ SO ₄	OTHER	624 VOCs	Modified VOCs	Total Metals Zn	As SVOCs
5/23	14:20	92113 - FW23D - 0595	AQ	✓		2	VIA				X			
"	"	1430 92113 - FW04 - 0595	AQ	✓		3	VIA							
"	"	1510 92113 - POTWCOMB - 0595	AQ	✓		3	VIA				X			
"	"	1520 92113 - FW22D - 0595	AQ	✓		2	VIA				X			
"	"	1650 92113 - FW17 - 0595	AQ	✓		2	VIA				X			
"	"	1735 92113 - FW08 - 0595	AQ	✓		2	VIA				X			
"	"	1700 92113 - FW23 - 0595	AQ	✓		2	VIA				X			
"	"	1800 92113 - NAT-D1 - 0595	AQ	✓		2	VIA				X			
"	"	1415 92113 - FW05 - 0595	AQ	✓		3	VIA				X			
"	"	1540 92113 - FW24 - 0595	AQ	✓		2	VIA				X			
"	"	1845 92113 - FW08D - 0595	AQ	✓		3	VIA				X			
"	"	1700 92113 - RD-D - 0595	AQ	✓		3	VIA				X			
"	"	1730 92113 - EXGRD-1 - 0595	AQ	✓		3	VIA				X			
"	"	1835 92113 - EXNHAL-1 - 0595	AQ	✓		3	VIA				X			
5/23	17:15	92113 - RD-S - 0595	AQ	✓		3	VIA				X			

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / NO

TEMPERATURE UPON RECEIPT: _____
Bottles supplied by NET? YES / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA
REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS

RELINQUISHED BY: R. Van Litten DATE: 5/24/95 TIME: 06:30
RECEIVED BY: FED EX AIR BILL 2226042011 DATE: 5/25 TIME: 10:03 AM
RECEIVED FOR NET BY: Mr. Carmichael

METHOD OF SHIPMENT

FED EX

REMARKS:

ORGANIC FLAGS AND SAMPLE SUFFIXES

The following qualifiers have been used for reporting results:

- B - The "B" flag indicates that the analyte was found in the associated blank as well as in the sample.
- E - The "E" flag identifies compound concentrations that exceed the calibration range of the GC/MS instrument. For Benzo (b) and Benzo. (k) Fluoranthene, the calibration range of each peak will be considered separately. Ortho, para, and meta xylene are quantified as two peaks, the calibration range of each peak will be considered separately.
- D - If a sample is re-analyzed due to high concentrations and both the original analysis and re-analysis have been reported, the diluted analysis will have the "DL" suffix. All concentration values reported for the diluted analysis will be flagged with a "D".
- U - The "U" flag indicates that the compound was analyzed for but not detected. The reported "U" value is the detection limit for the given compound. The value is corrected for dilution and for percent moisture.
- J - The "J" flag indicates an estimated value. The flag is used for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral or chromatographic data indicate the presence of a compound that meets the identification criteria but the quantitated value is less than the method quantitation limit.
- P - The "P" flag indicates that the quantitated value of a target pesticide/PCB differs by more than 25% on the two GC columns that were reported.
- Y - Compound values that are flagged with a "Y" have been edited on our RTE/MS data system.
- X - Compound values that are flagged with a "X" have been edited on our Foremaster data reporting system.

The following sample suffixes have been used:

XXXXXX	= sample number
XXXXXXMS	= matrix spike sample
XXXXXXMSD	= matrix spike duplicate sample
XXXXXXRE	= re-analyzed sample
XXXXXXDL	= sample analyzed at a secondary dilution

EPA CLP 3/90 Deliverables Inventory

Project Name: GEI Consultants/NH Tinkham Project

NET Job Numbers: 95.01918, 95.01955, 95.02056

FD Number: FD 1423

	ITEM	PAGE
3.	GCMS VOLATILE ORGANIC ANALYSIS DATA (8010/8020)	<u>3 0000</u>
3A.	<u>OC Summary</u> -Forms II, III, IV, V	<u>3 0001</u>
3B.	<u>Sample Data</u> -Forms I, Ib, Raw Data	<u>3 0015</u>
3C.	<u>Standards Data</u> -Forms VI, VII, VIII, Raw Data	<u>3 0145</u>
3D.	<u>Raw OC Data</u>	
3D1.	BFB Tunes	<u>3 0175</u>
3D2.	Blank Data -Form I, Ib, Raw Data	<u>3 0184</u>
3D4.	Matrix Spike Data -Form I, Raw Data	<u>3 0197</u>
3D4.	Matrix Spike Duplicate Raw Data	<u>3 0217</u>

ANALYTICAL REPORT

Report To: Mr. Bob Mullin
GEI Consultants/NH
Suffolk Building
53 Regional Drive
Concord, NH 03301

Project: Tinkham Project
FD Case 1423
Section Three Volatiles Data
Analysis

NET Job Number: 95.01918
95.01955
95.02056

National Environmental Testing

NET Atlantic, Inc.
Cambridge Division
12 Oak Park
Bedford, MA 01730

Massachusetts Certification Number
M MA023

TABLE 3
VOLATILES ORGANICS NARRATIVE SUMMARY
FD 1423

GENERAL COMMENTS: The samples were analyzed using method OLM01.9 Due to software constraints the "0595's" were dropped from the CLIENT ID's.

MANUAL INTEGRATIONS: Manual integrations are performed on standards and samples when the integration is not complete due to peak shape and chromatography. This is confirmed by visual inspection by the analysts. The "M" flag indicates that a manual integration has been performed.

The "Y" flag indicates that the compound was edited on the RTE/MS data system.

#17- Total 1,2-Dichloroethene must be integrated in the initial and continuing calibration standards to include the total area of the cis- and trans- isomers.

SURROGATES: All system monitoring compound recoveries were within the contract required QC limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE(s): Two sets of MS/MSD's were analyzed. All results are reported. All spike recoveries were within QC limits for the MS/MSD analysis. All RPDs were within the required limits. No corrective action is required as per the SOW.

BLANKS: A method blank was analyzed for each twelve hour time period on each GC/MS system used for analysis. No blank contained greater than five times the CRQL of Methylene Chloride, Acetone, and 2-Butanone, or greater than or equal to the CRQL of any other volatile target compound.

TUNE: All instrument performance check criteria were met prior to the start of sample analysis.

CALIBRATION: All compounds met the required minimum RF's and maximum RPD's or %D.

INTERNAL STANDARDS: All internal standard areas and retention times were within the QC limits.

HOLDING TIMES: All samples were analyzed within contract required holding times.

DILUTIONS: Two samples required dilutions.

Sample 92113FW11D (NET ID 124147) exceeded standard calibration for Trichloroethene and was reanalyzed with a 1:5 dilution.

Sample 921130W2D (NET ID 124146) exceeded standard calibration for 1,2-Dichloroethene(total) and was reanalyzed with a 1:10 dilution.

pH Values: A pH value of 1 was determined for all of the volatile samples.

EPA CLP 3/90 Deliverables Inventory

Project Name: GEI Consultants/NH Tinkham Project

NET Job Numbers: 95.01918, 95.01955, 95.02056

FD Number: FD 1423

ITEM		PAGE
3.	GCMS VOLATILE ORGANIC ANALYSIS DATA (8010/8020)	<u>3 0000</u>
3A.	<u>OC Summary</u> -Forms II, III, IV, V	<u>3 0001</u>
3B.	<u>Sample Data</u> -Forms I, Ib, Raw Data	<u>3 0015</u>
3C.	<u>Standards Data</u> -Forms VI, VII, VIII, Raw Data	<u>3 0145</u>
3D.	<u>Raw OC Data</u>	
3D1.	BFB Tunes	<u>3 0175</u>
3D2.	Blank Data -Form I, Ib, Raw Data	<u>3 0184</u>
3D4.	Matrix Spike Data -Form I, Raw Data	<u>3 0197</u>
3D4.	Matrix Spike Duplicate Raw Data	<u>3 0217</u>

3. VOLATILES DATA

GEI

FD 1423

95.01918

95.01955

95.02056

3A. QC SUMMARY

3000

30001

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CAMBRG

Contract: OET

Lab Code: CAMBRG

Case No.: FD1423

SAS No.:

SDG No.:

	EPA	SMC1	SMC2	SMC3	OTHER	TOT
	SAMPLE NO.	(TOL)#	(BFB)#	(DCE)#		OUT
01	92113ERT06	98	98	97	0	0
02	92113FW110	99	96	94	0	0
03	92113FW110DL	98	101	100	0	0
04	92113LQAW	93	95	100	0	0
05	92113LQSW	93	94	100	0	0
06	92113NAICL	101	102	100	0	0
07	92113OW2D	98	93	87	0	0
08	92113OW2DCL	95	95	93	0	0
09	92113RDD	98	97	104	0	0
10	92113LQAWMS	97	97	106	0	0
11	92113LQAWMSD	102	105	108	0	0
12	92113OW2DMS	101	101	96	0	0
13	92113OW2DMSD	99	99	101	0	0
14	VBLK060175K	109	110	112	0	0
15	VBLK060395K	100	100	91	0	0
16	VBLK060495K	99	101	98	0	0

GC LIMITS

SMC1 (TOL) = toluene-d3 (88-110)
 SMC2 (BFB) = Bromofluorobenzene (86-115)
 SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values

* Values outside of contract required GC limits

D System Monitoring Compound diluted out

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAMBRO

Contract: GEI

Lab Code: CAMBRO

Case No.: FD1423

SAS No.:

SDG No.:

Matrix Spike - LPA Sample No.: 92113LGAW

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	0	49.10	98	61-145
Trichloroethene	50.00	0	46.60	93	71-120
Benzene	50.00	4.960	57.10	104	76-127
Toluene	50.00	16.30	61.20	90	76-125
Chlorobenzene	50.00	0	46.00	92	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
1,1-Dichloroethene	50.00	50.00	100	2	14 61-145
Trichloroethene	50.00	45.70	91	2	14 71-120
Benzene	50.00	55.20	100	4	11 76-127
Toluene	50.00	62.00	91	1	13 76-125
Chlorobenzene	50.00	46.30	93	1	13 75-130

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: 124047, V., GEI

CLP, FD1423, 92113-LGAW-0595, L, A, ALS4 5ML JPT .01918

30003

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAMBRO

Contract: GEI

Lab Code: CAMBRO

Case No.: FD1423

SAS No.:

SDG No.:

Matrix Spike - EPA Sample No.: 921130W2D

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	GC LIMITS REC.
1,1-Dichloroethene	500.0	14.90 ✓	555.0	108	61-145
Trichloroethene	500.0	37.00 ✓	504.0	93	71-120
Benzene	500.0	9.200 ✓	494.0	97	76-127
Toluene	500.0	0 ✓	488.0	98	76-125
Chlorobenzene	500.0	7.450 ✓	488.0	96	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	GC LIMITS RPD REC.
1,1-Dichloroethene	500.0	578.0	113	5	14 61-145
Trichloroethene	500.0	526.0	97	4	14 71-120
Benzene	500.0	517.0	102	9	11 76-127
Toluene	500.0	488.0	98	0	13 76-125
Chlorobenzene	500.0	487.0	96	0	13 75-130

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

* Values outside of GC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: 124146, V, EPA, GEI

CLP, FD1423, 92113-QW2D-0595, L, W, ALS5 SML TOM .01

30004

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO. —

VBK060195K

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: FD1423

SAS No.:

SDG No.:

Lab File ID: K7993

Lab Sample ID: 6305-053095

Date Analyzed: 06/01/95

Time Analyzed: 1244

GC Column: CAP ID: 0.530(mm)

Heated Purge: (Y/N) N

Instrument ID: HPS970K

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01:92113LCAW	124047	K7996	1632
02:92113LGSW	124048	K7999	1908
03:92113RDD	124049	K8000	1908
04:92113LCAWMS	124047MS	K7997	1711
05:92113LCAWMSD	124047MSD	K7998	1750

COMMENTS: 6305-053095, V. BLANK

CLP: 10000, VBK060195K-L, W, ALS12 5ML UPT

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK060395K

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: F01423

SAS No.:

SDG No.:

Lab File ID: K8048

Lab Sample ID: 6305-053095

Date Analyzed: 06/03/95

Time Analyzed: 1058

GC Column: CAP

ID: 0.530(mm)

Heated Purge: (Y/N) N

Instrument ID: HP5970K

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

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01 92113FW11D	124147	K8054	1538
02 92113DW2D	124146	K8051	1341

COMMENTS:

6305-053095, V. BLANK

CLP, 10000, VBLK060395K, L. G. ALOR

SML TOM

30006

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO. —

VBLK060495K

Lab Name: CAMBRG

Contract: OEI

Lab Code: CAMBRG

Case No.: FD1423

SAS No.:

SDG No. —

Lab File ID: K8081

Lab Sample ID: 6305-053095

Date Analyzed: 06/04/95

Time Analyzed: 0928

GC Column: CAP ID 0 530(mm)

Heated Purge: (Y/N) N

Instrument ID: HP5970K

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

EPA	LAB	LAB	TIME
SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
01:92113ERT06	1241278	K8088	1438
02:92113FW110DL	1241470L	K8086	1320
03:92113NA1GL	1241277	K8087	1359
04:92113CW2BDL	1241460L	K8083	1118
05:92113CW2DMS	124148MS	K8084	1202
06:92113CW2DMSB	124148MSB	K8085	1241

COMMENTS

6305-053095, V. L. BLANK

GLP, 10000, VBLK060495K, L. W. ALS2

5ML TOM

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAMBRO

Contract: CEI

Lab Code: CAMBRO

Case No.: FD1423

SAS No.:

SDG No.:

Lab File ID: K7965

BFB Injection Date: 05/31/95

Instrument ID: HP5970K

BFB Injection Time: 0942

GC Column: CAP

ID: 0.530(mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	13.7
75	30.0 - 66.0% of mass 95	38.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	85.4
175	4.0 - 9.0% of mass 174	6.5 (7.6)1
176	93.0 - 101.0% of mass 174	85.0 (99.5)1
177	5.0 - 9.0% of mass 176	9.5 (6.5)2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01VSTD050	6302-052295	K7967	05/31/95	1159
02VSTD200	6302-052295	K7969	05/31/95	1426
03VSTD100	6302-052295	K7970	05/31/95	1603
04VSTD020	6302-052295	K7971	05/31/95	1643
05VSTD010	6302-052295	K7972	05/31/95	1722

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAMBRG

Contract: CEI

Lab Code: CAMBRG

Lab No.: F01423

SAS No.:

SDG No.:

Lab File ID: K7908

BFB Injection Date: 06/01/95

Instrument ID: HP5970K

BFB Injection Time: 0946

GC Column: CAP

ID: 0.330(mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	13.1
75	30.0 - 64.0% of mass 95	35.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	84.7
175	4.0 - 9.0% of mass 174	6.4 (7.5)1
176	93.0 - 101.0% of mass 174	82.2 (97.1)1
177	5.0 - 9.0% of mass 175	5.8 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

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

EPA	LAB	LAB	DATE	TIME
SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
01:VSTD050	6302-052195	K7990	06/01/95	1136
02:VBLK060175K	6305-063095	K7993	06/01/95	1244
03:92113LGAW	124047	K7996	06/01/95	1632
04:92113LGAWMS	124047MS	K7997	06/01/95	1711
05:92113LGAWMSD	124047MSD	K7998	06/01/95	1750
06:92113LGSW	124048	K7999	06/01/95	1908
07:92113RDP	124049	K8000	06/01/95	1908

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAMBER

Contract: GEI

Lab Code: CAMBER

Cash No: FD1123

SAG No:

SDG No:

Lab File ID: K8046

BFB Injection Date: 06/03/95

Instrument ID: HP5970K

BFB Injection Time: 0914

GC Column: CAP

ID: 0.520(mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	9.0 - 40.0% of mass 95	13.6
75	30.0 - 60.0% of mass 95	37.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	78.7
175	4.0 - 9.0% of mass 174	6.1 (7.7)1
176	93.0 - 101.0% of mass 174	77.5 (98.5)1
177	5.0 - 9.0% of mass 174	5.3 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01:VSTD050	8008-052298	K8047	06/03/95	0940
02:VELK060378K	8008-053098	K8048	06/03/95	1058
03:92113FWED	124146	K8051	06/03/95	1341
04:92113FW110	124147	K8054	06/03/95	1538

30010

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAMBRD

Contract: GEI

Lab Code: CAMBRD

Case No.: PD1423

SAS No.:

SDG No.:

Lab File ID: K8077

BFB Injection Date: 06/04/95

Instrument ID: HP5970B

BFB Injection Time: 0800

GC Column: CAP

ID: 0.530(mm)

Heated Purge: (Y/N) N

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	13.7
75	30.0 - 65.0% of mass 95	38.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.2 (0.3)1
174	50.0 - 120.0% of mass 95	78.4
175	4.0 - 9.0% of mass 174	5.6 (7.2)1
176	93.0 - 101.0% of mass 174	78.4 (100.0)1
177	5.0 - 9.0% of mass 175	5.0 (6.4)2

1-Value is % mass 173

2-Value is % mass 176

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

EPA	LAB	LAB	DATE	TIME
SAMPLE NO	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
01195TD090	6302-051095	K8080	06/04/95	0828
02195LKO60495K	6305-052095	K8081	06/04/95	0928
031921130W05DL	124146DL	K8083	06/04/95	1118
041921130W20MS	124146MS	K8084	06/04/95	1202
051921130W09SD	124146MSD	K8085	06/04/95	1241
06192113FW11DL	124147DL	K8086	06/04/95	1320
07192113NA10L	124277	K8087	06/04/95	1359
08192113ERT06	124278	K8088	06/04/95	1438

30011

SA
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAMBER

Contract: GEI

Lab Code: CAMBERC

Case No.: FD1423

SAS No.:

SDC No.:

Lab File ID (Standard): K7990

Date Analyzed: 06/01/95

Instrument ID: HP5970K

Time Analyzed: 1136

GC Column: CAP

ID: 0.530 (mm)

Heated Purge: (Y/N) N

	IS1(BCM)	IS2(DFB)	IS3(CBZ)
	AREA # RT #	AREA # RT #	AREA # RT #
12 HOUR STD	35100 11.09	145000 14.22	129000 22.00
UPPER LIMIT	76500 11.89	330000 14.72	258000 22.50
LOWER LIMIT	19000 10.87	82500 13.72	64500 21.50
EPA SAMPLE NO			
01 92113LGAW	25000 11.47	154000 14.24	136000 22.04
02 92113LGBW	29400 11.49	157000 14.22	125000 22.00
03 92113RBD	38500 11.47	163000 14.22	128000 22.00
04 92113LGAWS	37000 11.47	154000 14.22	127000 22.00
05 92113LGAWSL	33500 11.44	151000 14.22	129000 22.00
06 VBLK0501 PRA	39700 11.44	170000 14.22	134000 22.00

IS1 (BCM) = Bromochlorobenzene

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = +0.50 minutes of internal standard RT.

RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits.

30012

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: FD1423

SAS No.:

SDG No.

Lab File ID (Standard): K8047

Date Analyzed: 06/03/95

Instrument ID: HP5970K

Time Analyzed: 0940

GC Column: CAP

ID: 0.530 (mm)

Heated Purge: (Y/N) N

	IS1(BCM)		IS2(DFB)		IS3(CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	28500	11.44	165000	14.22	133000	22.02
UPPER LIMIT	77000	11.94	330000	14.72	266000	22.52
LOWER LIMIT	19250	10.94	82500	13.72	66500	21.52
EPA SAMPLE NO.						
01:92113FW11D	34600	11.44	144000	14.22	120000	22.02
02:92113QWED	36700	11.42	162000	14.20	129000	22.00
03:VBLK060893K	27300	11.39	180000	14.17	125000	22.00

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = +0.50 minutes of internal standard RT.

RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

30013

BA
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name CAMBRG

Contract: GEI

Lab Code CAMBRG

Case No.: FD1422

SAS No.:

SDG No.:

Lab File ID (Standard): K8030

Date Analyzed: 06/04/95

Instrument ID: HP5970K

Time Analyzed: 0828

GC Column: CAP

ID: 0.530(mm)

Heated Purge: (Y/N) N

		IS1(BCM)		IS2(DFB)		IS3(CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	39700	11.42	167000	14.19	132000	21.99
	UPPER LIMIT	77400	11.92	334000	14.69	264000	22.49
	LOWER LIMIT	19350	10.92	83500	13.69	66000	21.49
	EPA SAMPLE NO.						
01	92113ERT06	34700	11.44	148000	14.22	118000	22.02
02	92113FW10DDL	33700	11.44	140000	14.22	115000	22.00
03	92113NA1CL	34400	11.44	148000	14.22	120000	22.00
04	92113GW20DL	39500	11.37	170000	14.19	137000	21.99
05	92113GW20ME	36900	11.42	157000	14.19	125000	21.99
06	92113GW20HSD	34200	11.44	146000	14.22	120000	22.02
07	VBLK060495K	38100	11.29	161000	14.17	133000	22.00

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = +0.50 minutes of internal standard RT.

RT LOWER LIMIT = -0.50 minutes of internal standard RT.

Column used to flag values outside GC limits with an asterisk.

* Values outside of GC limits.

3B. SAMPLE DATA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

72113ERT06

Lab Name: CAMERO

Contract: GEI

Lab Code: CAMERO

Case No.: F01423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124278

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K8088

Level: (low/med) LOW

Date Received: 05/26/95

% Moisture: not dec.

Date Analyzed: 06/04/95

GC Column: CAP

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

CAS NO.

COMPOUND

74-27-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	1,2-Dichloroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	54	
540-59-0	1,2-Dichloroethene (total)	3	JY
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	8	J
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	7	J
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	6	J
108-90-7	Chlorobenzene	2	J
100-41-4	Ethylbenzene	60	
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	18	Y

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. _____

92113ERT06

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: FD1423

SAS No.: _____

SDS No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: 124278

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K8088

Level: (low/med) LOW

Date Received: 05/26/95

% Moisture: not doc

Date Analyzed: 06/04/95

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Number TICs Found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 354334	1,2-Dichloroethane-1,1,2-tri	5.73	31	UN
2. 100759	Tetrahydrofuran	10.84	80	UN
3. 74975	Bromochloromethane	11.44	35	UN
4. 95501	Benzene, 1,2-dichloro	29.72	32	UN

QUANT REPORT

Operator ID: DDUG Quant Rev: 6 Quant Time: 950604 15:14
Output File: ^K8088::K2 Injected at: 950604 14:38
Data File: >K8088::L2 Dilution Factor: 1.00000
Name: 124278,V,EPA,GEI
Misc: CLP,FD 1423,,~~2~~2113-ERT06-05955,L,W,ALS6 5ML TOM .0

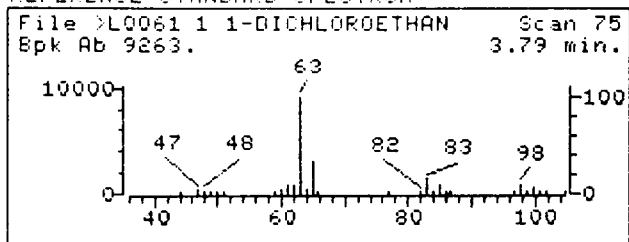
ID File: KVOAID::DB
Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
Last Calibration: 950604 12:56

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*CI01 BROMOCHLOROMETHANE IS-1	11.44	207	34745	50.00	UG/L	96
12)	C050 1,1-DICHLOROETHANE	9.30	160	54486	53.46	UG/L	97
17)	C053 TOTAL-1,2-DICHLOROETHENE	8.20	136	1940M	2.61	UG/L	95
19)	C065 1,2-DICHLOROETHANE	13.17	245	6064	8.04	UG/L	92
20)	CS15 D4-1,2-DICHLOROETHANE SS1	12.99	241	34973	48.33	UG/L	92
24)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.22	268	147753	50.00	UG/L	100
35)	C165 BENZENE	13.12	244	12254	7.20	UG/L	100
38)	*CI20 D5-CHLOROBENZENE IS-3	22.01	439	118012	50.00	UG/L	100
43)	CS05 D-8 TOLUENE (SS-2)	18.09	353	119687	49.25	UG/L	89
44)	C230 TOLUENE	18.27	357	13471	5.99	UG/L	99
45)	C235 CHLOROBENZENE	22.10	441	3265	1.59	UG/L	97
46)	C240 ETHYL BENZENE	22.42	448	51864	59.58	UG/L	98
47)	CS10 BROMOFLUOROBENZENE (SS-3)	25.29	511	64972	49.06	UG/L	83
51)	C250 TOTAL XYLENES	22.78	456	20577M	18.52	UG/L	98

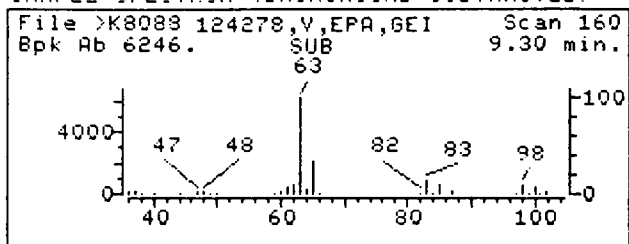
* Compound is ISTD

3/2/05

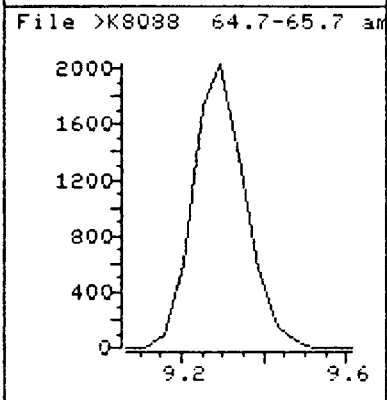
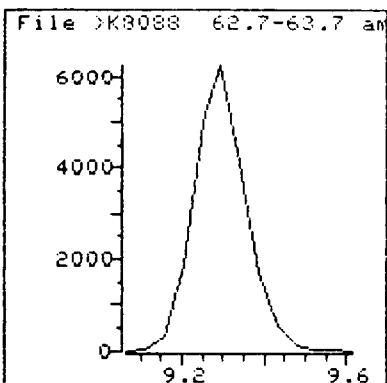
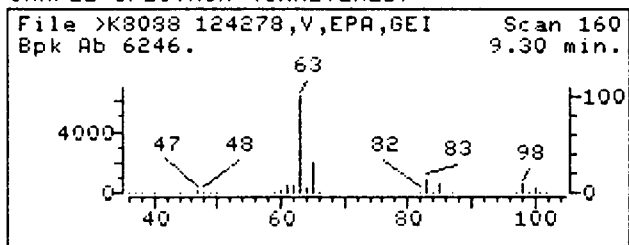
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8088::L2

Quant Output File: ^K8088::K2

Name: 124278,V,EPA,GEI

Misc: CLP,FD 1423,372113-ERT06-05955,L,W,ALS6 SML TOM .0

Quant Time: 950604 15:14

Quant ID File: KVOAID::DB

Injected at: 950604 14:38

Last Calibration: 950604 12:56

Compound No: 12

Compound Name: C050 1,1-DICHLOROETHANE

Scan Number: 160

Retention Time: 9.30 min.

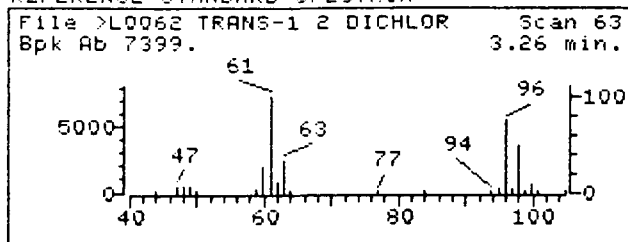
Quant Ion: 63.0

Area: 54486

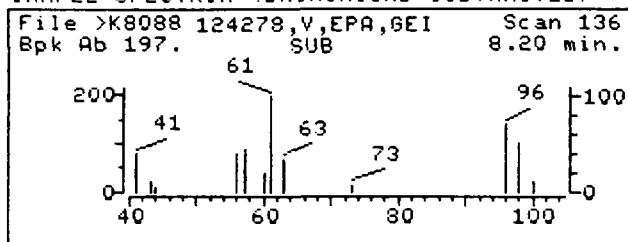
Concentration: 53.46 UG/L

q-value: 97

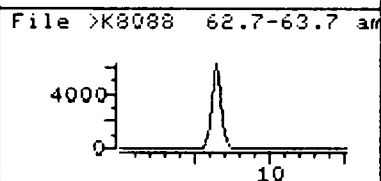
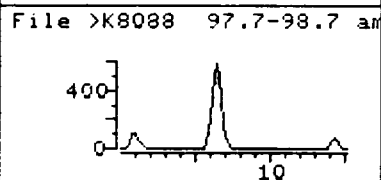
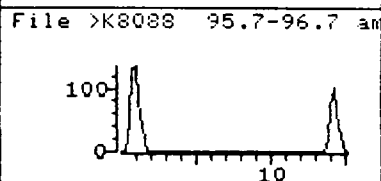
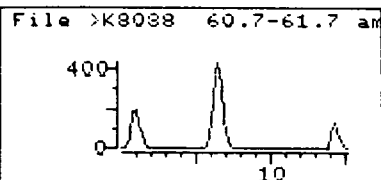
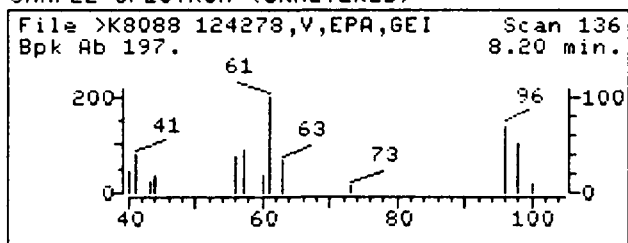
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



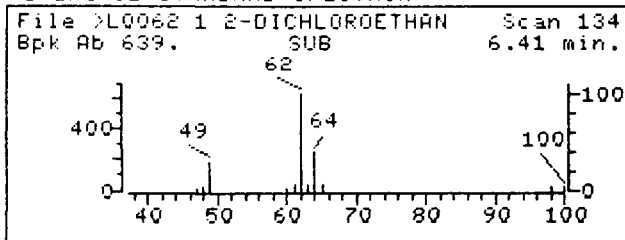
SAMPLE SPECTRUM (UNALTERED)



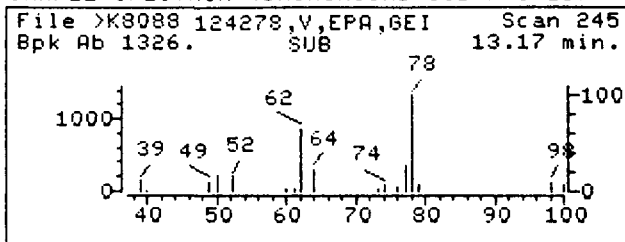
Data File: >K8088::L2 Quant Output File: ^K8088::K2
Name: 124278,V,EPA,GEI
Misc: CLP,FD 1423,,72113-ERT06-05955,L,W,ALS6 5ML TOM .0
Quant Time: 950604 15:14 Quant ID File: KVDATD::DB
Injected at: 950604 14:38 Last Calibration: 950604 12:56

Compound No: 17
Compound Name: C053 TOTAL-1,2-DICHLOROETHENE
Scan Number: 136
Retention Time: 8.20 min.
Quant Ion: 96.0
Area: 1940M
Concentration: 2.61 UG/L
q-value: 95

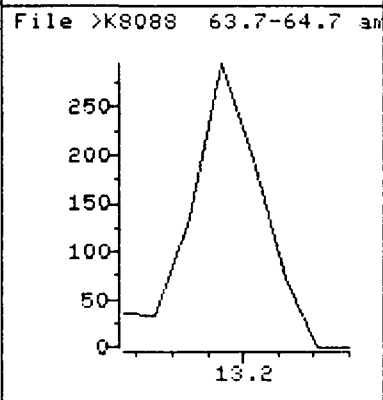
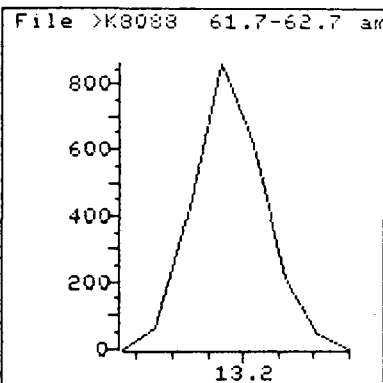
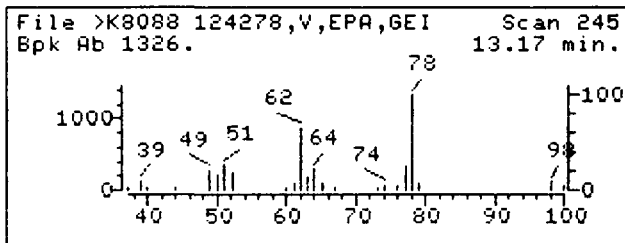
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



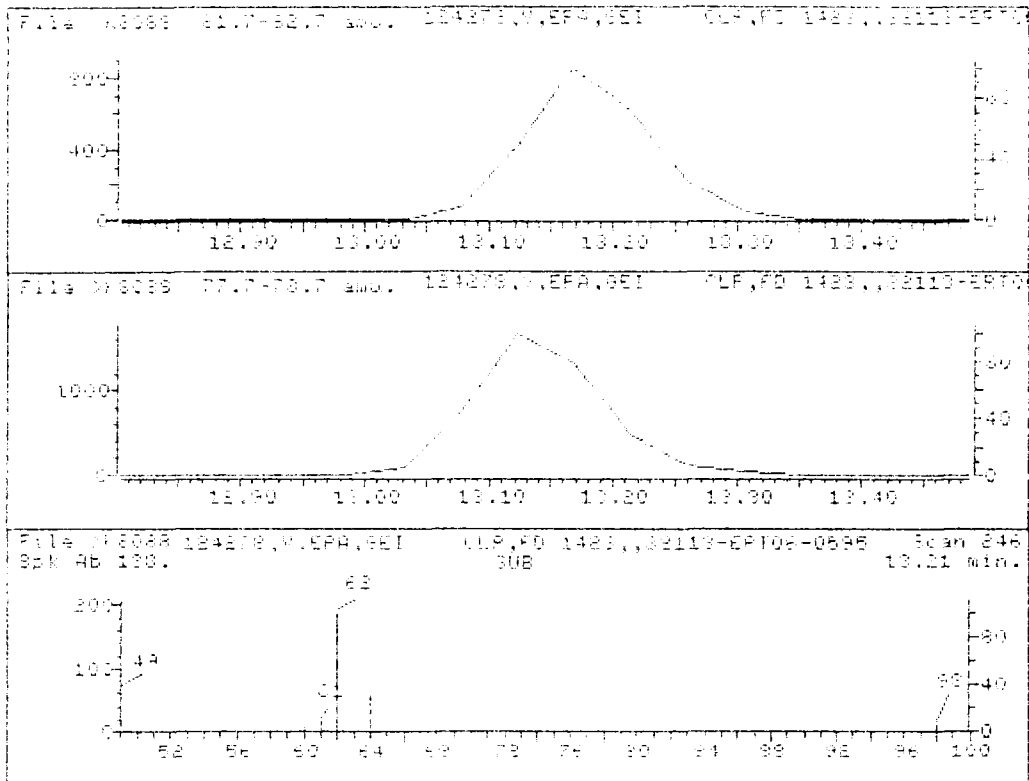
SAMPLE SPECTRUM (UNALTERED)



Data File: >K8088::L2
Name: 124278,V,EPA,GEI
Misc: CLP,FD 1423,2113-ERT06-05955,L,W,ALS6 5ML TOM .0
Quant Time: 950604 15:14
Injected at: 950604 14:38

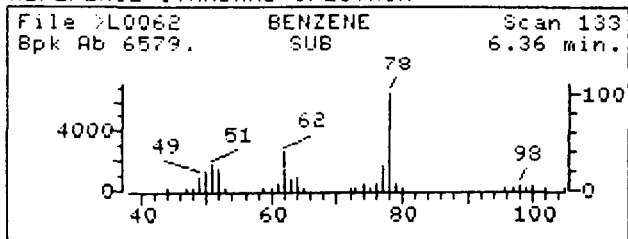
Quant Output File: ^K8088::K2
Quant ID File: KVOAID::DB
Last Calibration: 950604 12:56

Compound No: 19
Compound Name: C065 1,2-DICHLOROETHANE
Scan Number: 245
Retention Time: 13.17 min.
Quant Ion: 62.0
Area: 6064
Concentration: 8.04 UG/L
q-value: 92

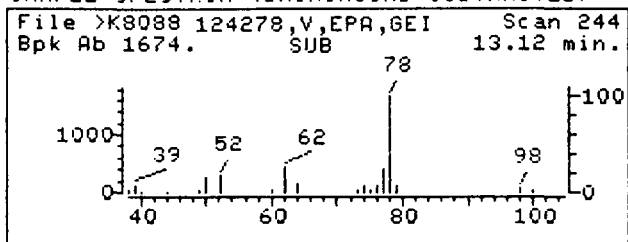


1,2 DCR

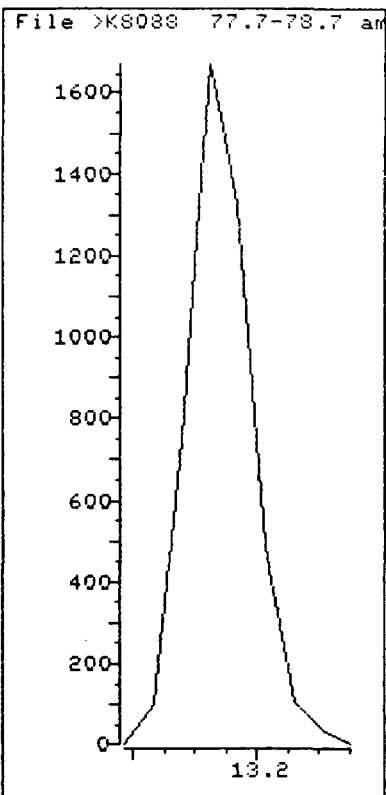
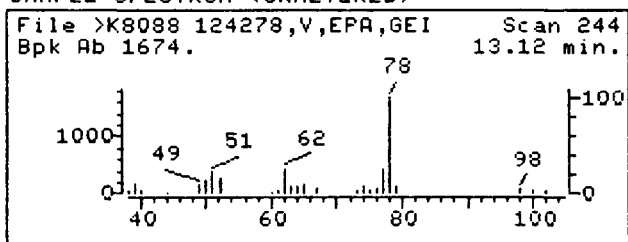
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8088::L2

Quant Output File: ^K8088::K2

Name: 124278,V,EPA,GEI

Misc: CLP,FD 1423,572113-ERT06-05955,L,W,ALS6 5ML TOM .0

Quant Time: 950604 15:14

Quant ID File: KVOAID::DB

Injected at: 950604 14:38

Last Calibration: 950604 12:56

Compound No: 35

Compound Name: C165 BENZENE

Scan Number: 244

Retention Time: 13.12 min.

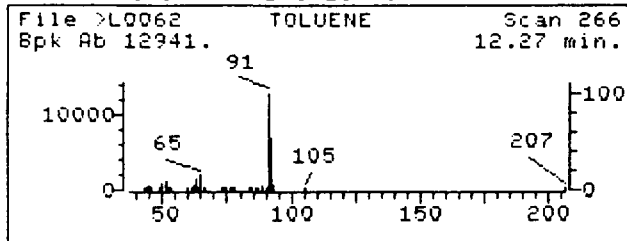
Quant Ion: 78.0

Area: 12254

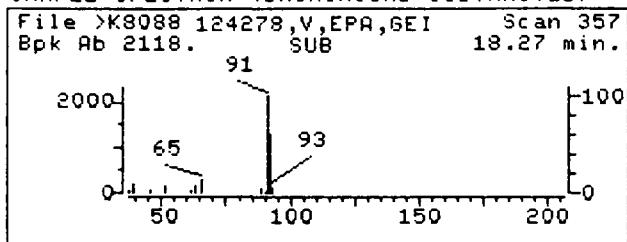
Concentration: 7.20 UG/L

q-value: 100

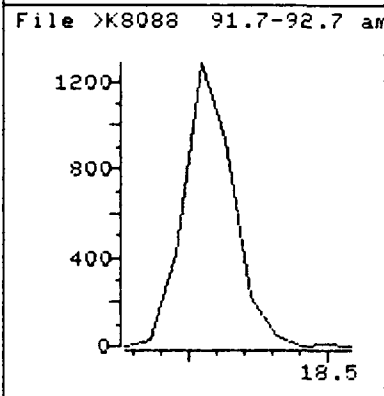
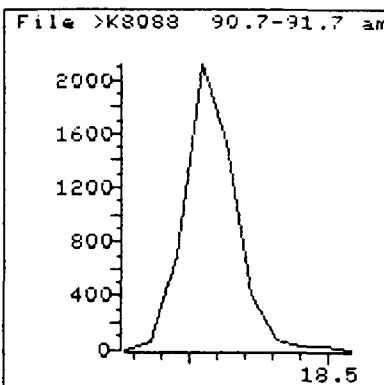
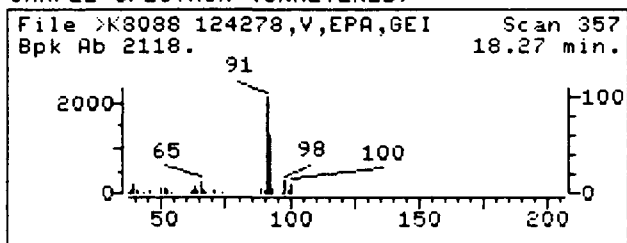
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

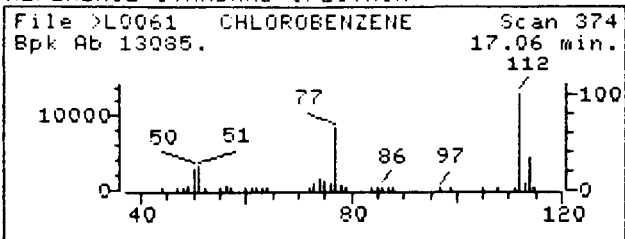


Data File: >K8088::L2
Name: 124278,V,EPA,GEI
Misc: CLP,FD 1423,,2113-ERT06-05955,L,W,ALS6 5ML TOM .0
Quant Time: 950604 15:14
Injected at: 950604 14:38

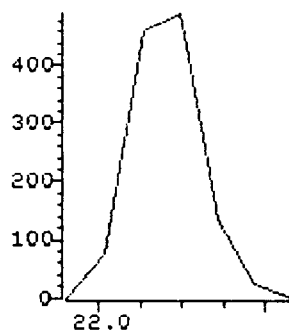
Quant Output File: ^K8088::K2
Quant ID File: KVOAID::DB
Last Calibration: 950604 12:56

Compound No: 44
Compound Name: C230 TOLUENE
Scan Number: 357
Retention Time: 18.27 min.
Quant Ion: 91.0
Area: 13471
Concentration: 5.99 UG/L
q-value: 99

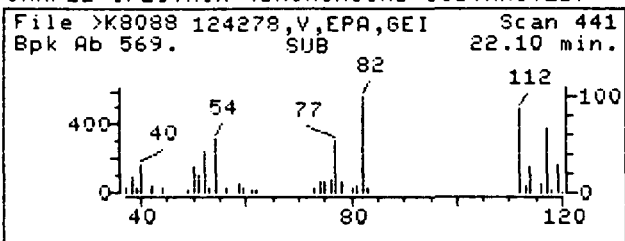
REFERENCE STANDARD SPECTRUM



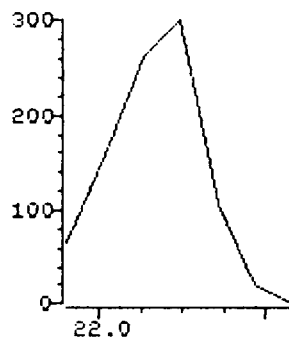
File >K8088 111.8-112.8



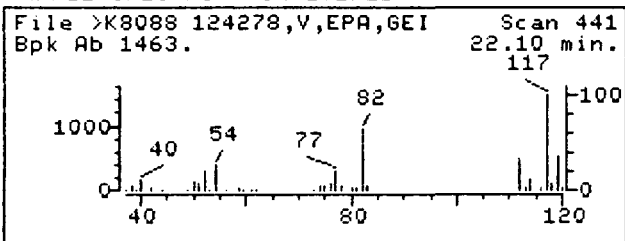
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



File >K8088 76.7-77.7 am



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8088::L2

Quant Output File: ^K8088::K2

Name: 124278,V,EPA,GEI

Misc: CLP,FD 1423, 2113-ERT06-05955,L,W,ALS6 5ML TOM .0

Quant Time: 950604 15:14

Quant ID File: KVOAID::DB

Injected at: 950604 14:38

Last Calibration: 950604 12:56

Compound No: 45

Compound Name: C235 CHLOROBENZENE

Scan Number: 441

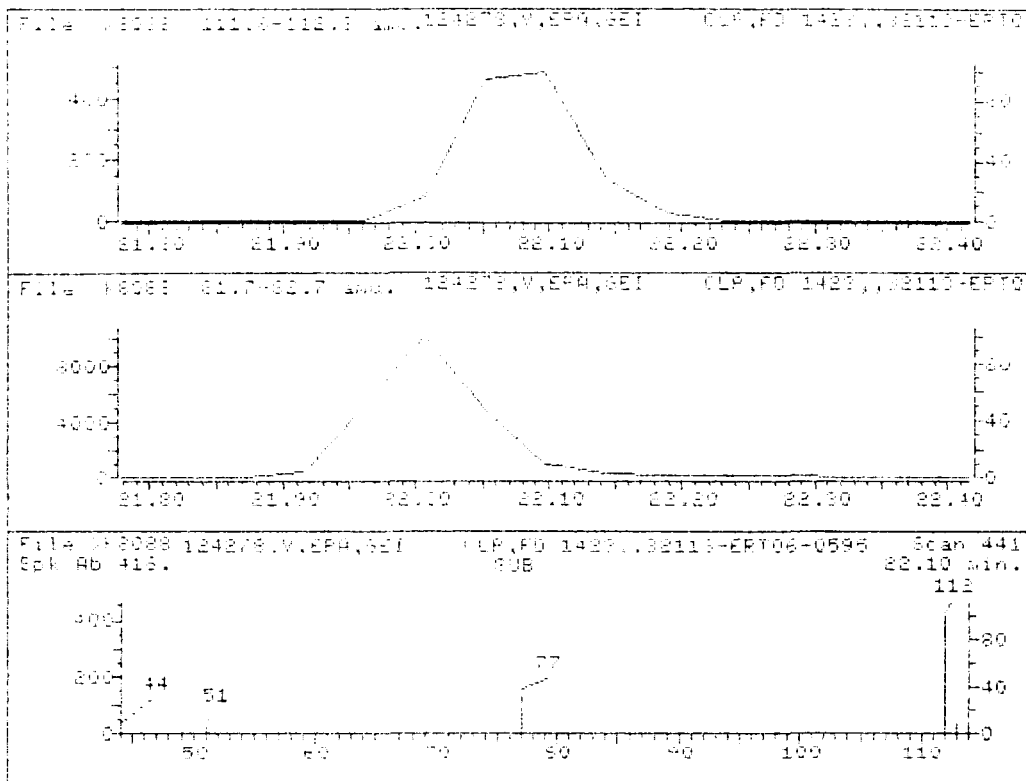
Retention Time: 22.10 min.

Quant Ion: 112.1

Area: 3265

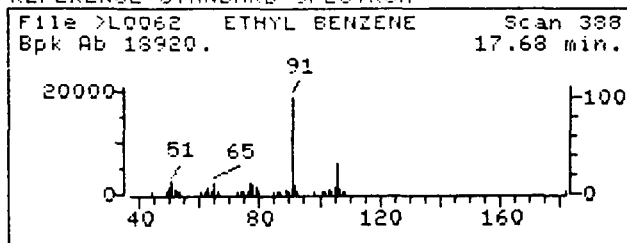
Concentration: 1.59 UG/L

q-value: 97

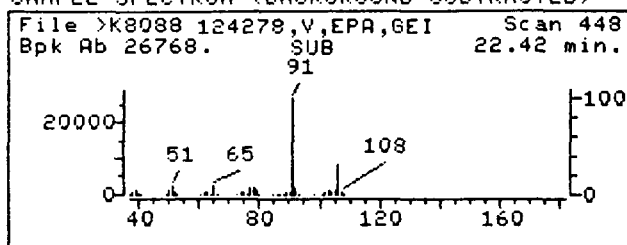


Chromatogram

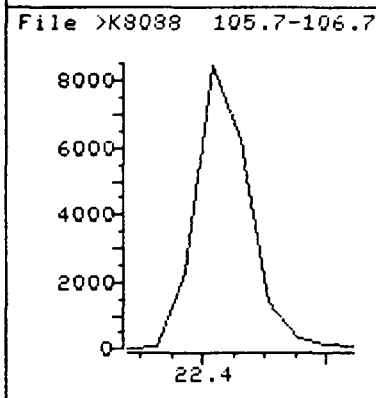
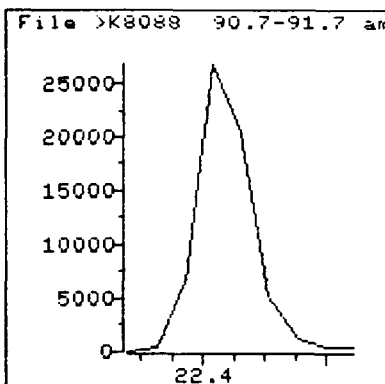
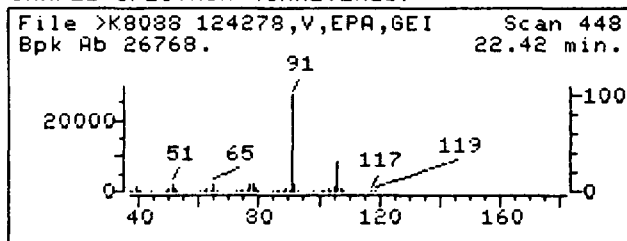
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8088::L2

Quant Output File: ^K8088::K2

Name: 124278,V,EPA,GEI

Misc: CLP,FD 1423,2113-ERT06-05955,L,W,ALS6 5ML TOM .0

Quant Time: 950604 15:14

Quant ID File: KVOAID::DB

Injected at: 950604 14:38

Last Calibration: 950604 12:56

Compound No: 46

Compound Name: C240 ETHYL BENZENE

Scan Number: 448

Retention Time: 22.42 min.

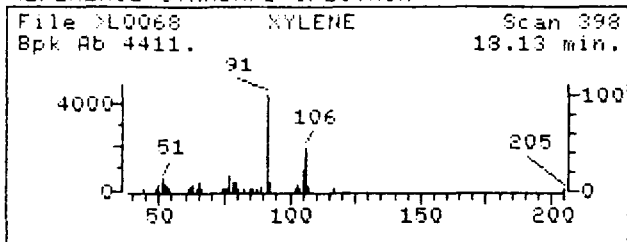
Quant Ion: 106.0

Area: 51864

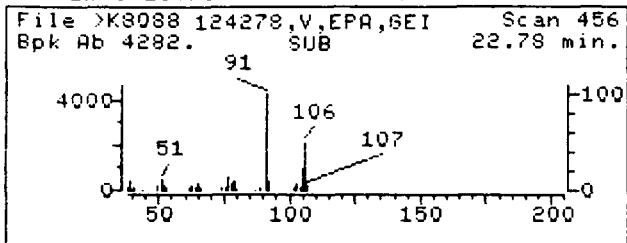
Concentration: 59.58 UG/L

q-value: 98

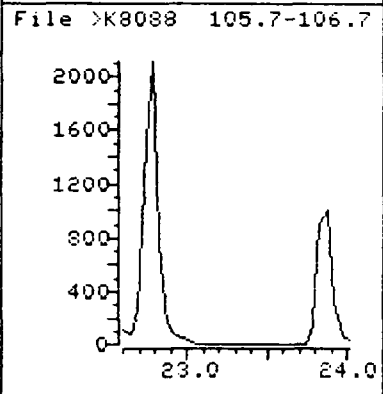
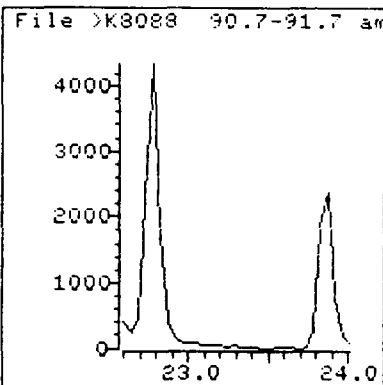
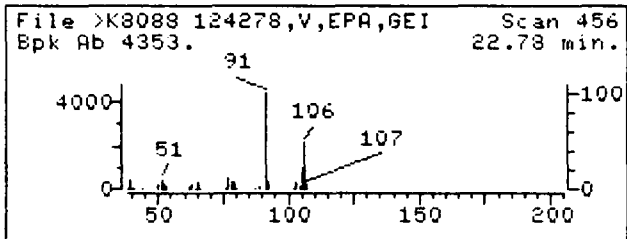
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8088::L2 Quant Output File: ^K8088::K2
Name: 124278,V,EPA,GEI
Misc: CLP,FD 1423, 2113-ERT06-05955,L,W,ALS6 5ML TOM .0
Quant Time: 950604 15:14 Quant ID File: KVOAID::DB
Injected at: 950604 14:38 Last Calibration: 950604 12:56

Compound No: 51
Compound Name: C250 TOTAL XYLENES
Scan Number: 456
Retention Time: 22.78 min.
Quant Ion: 106.0
Area: 20577M
Concentration: 18.52 UG/L
q-value: 98

MS data file header from : >K8088

Sample: 124278,V,EPA,GEI Operator: DOUG SUPER GRP. 6/04/95 14:38
Misc : CLP,FD 1423,,32113-ERT06-05955,L,W,ALS6 SML TOM .0
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS #: 0
Method file: KVOA Tuning file: MTUNEK No. of extra records: 2
Source temp.: 0 Analyzer temp.: 220 Transfer line temp.: 0

Chromatographic temperatures : 37. 150. 150. 0. 0.
Chromatographic times, min. : 7.0 4.0 3.0 0.0 0.0
Chromatographic rate, deg/min: 5.0 5.0 0.0 .2 0.0

>K8088 124278,V,EPA,GEI CLP,FD 1423,,32113-ERT06-05955,L,W,ALS6

35.01 300.0 CLP TIC

Upslope: .20 Area Reject: 21569. Max Peaks: 3 Bunching: 1
Dnslope: 0.00 Results File IK8088 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	2.83	15	18	27	16271	211381	209610	100.00	37.897
2	5.74	78	82	95	12795	139432	135806	64.79	24.553
3	29.71	605	608	620	32233	212612	207691	99.08	37.550

Sum of corrected areas: 553107.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	215691.	11.44	2.05 - 12.83
2	50.0	304576.	14.22	12.83 - 18.11
3	50.0	322777.	22.01	18.11 - 35.08

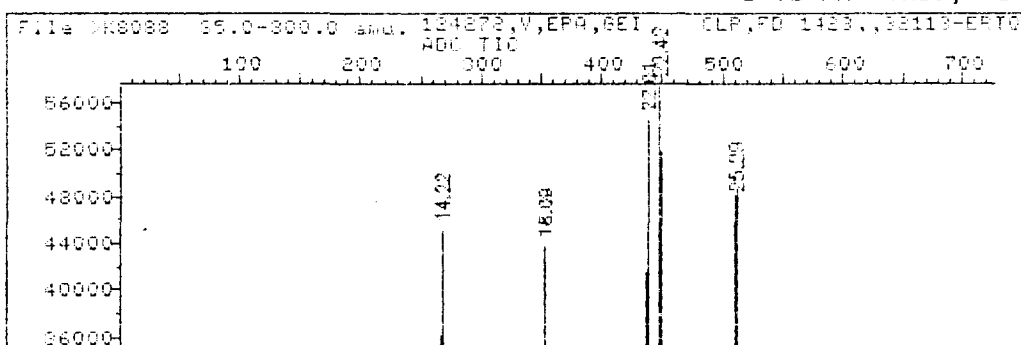
Dilution Factor = 1.00 U dilf = 1.00
Method called for 1000.000 g or mL This sample was 1000.000 g or mL

Correction Factor = 1.00

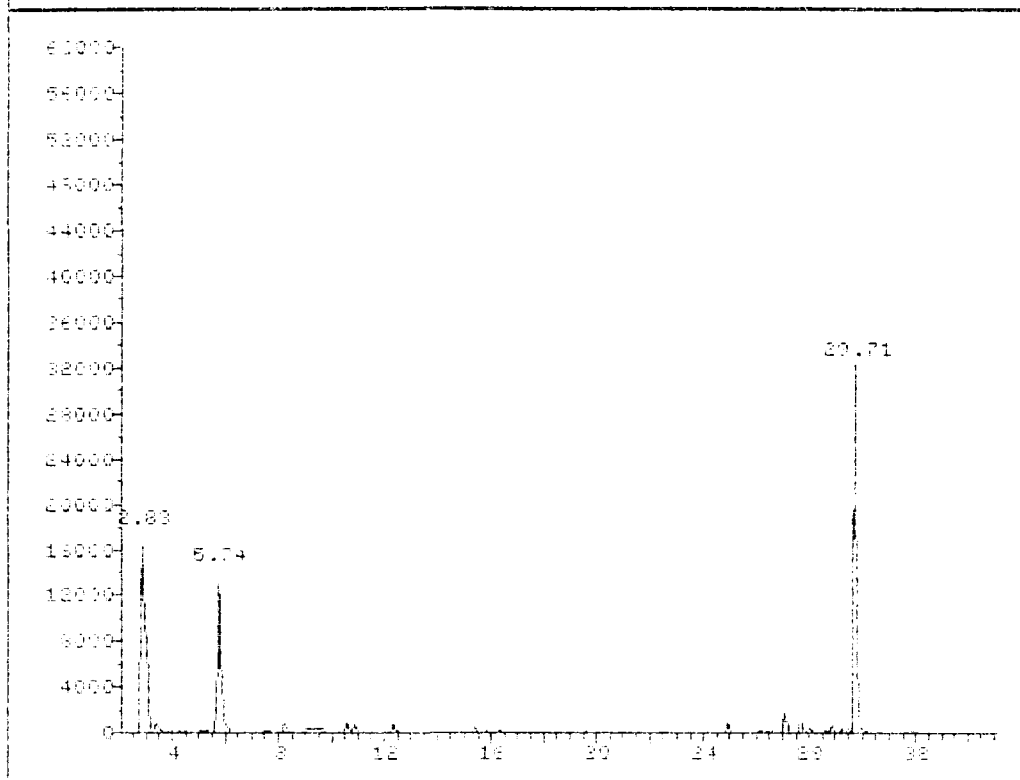
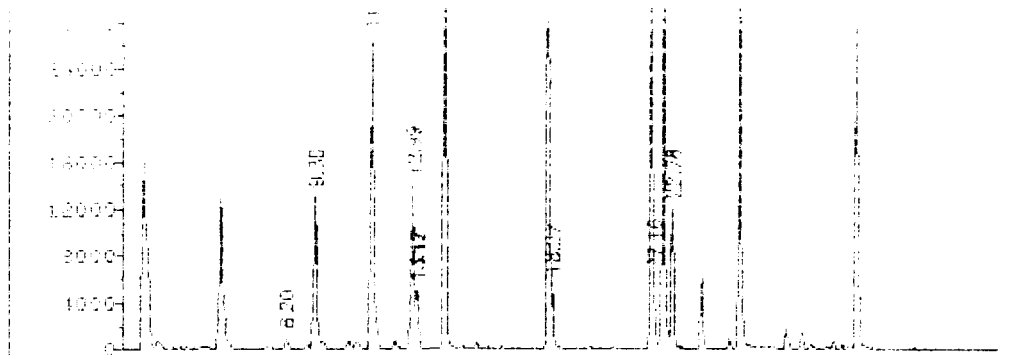
Conc Int Std

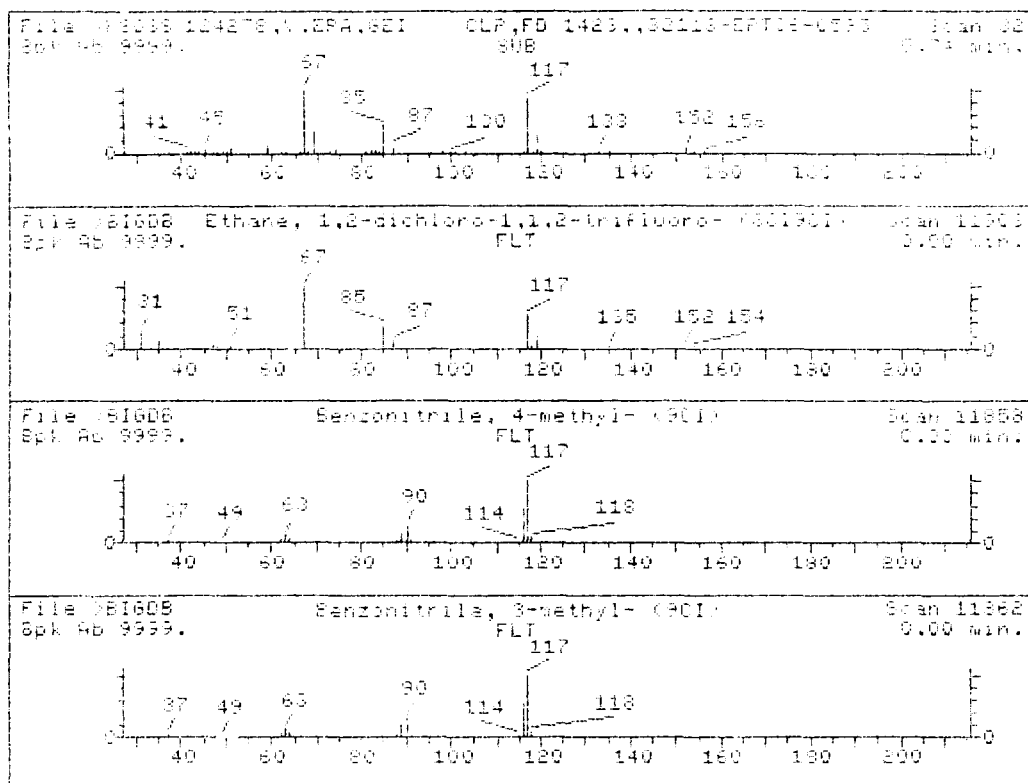
Unknown Concentration = $\frac{\text{Area Unknown} \times \text{Correction Factor}}{\text{Area Int Std}}$

3:16 PM THU., 8 JUNE, 1995



30030





UNKNOWN #,2
AREA = 135806.0 TENTATIVE CONCENTRATION IS 31.00

- | | |
|---|--------------|
| 1. Ethane, 1,2-dichloro-1,1,2-trifluoro- (8CI9CI) | 152 C2HCl2F3 |
| 2. Benzonitrile, 4-methyl- (9CI) | 117 C8H7N |
| 3. Benzonitrile, 3-methyl- (9CI) | 117 C8H7N |
| 4. Benzonitrile, 2-methyl- (9CI) | 117 C8H7N |

Sample file: >K8088 Spectrum #: 82
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	24*	354234	11903	"BIGDB	31	78	0	0	65	55	7	24
2.	11*	104858	11858	"BIGDB	25	74	3	0	87	65	2	13
3.	11*	620224	11862	"BIGDB	25	74	3	0	87	65	2	13
4.	11*	529191	11861	"BIGDB	25	75	3	0	87	65	2	13

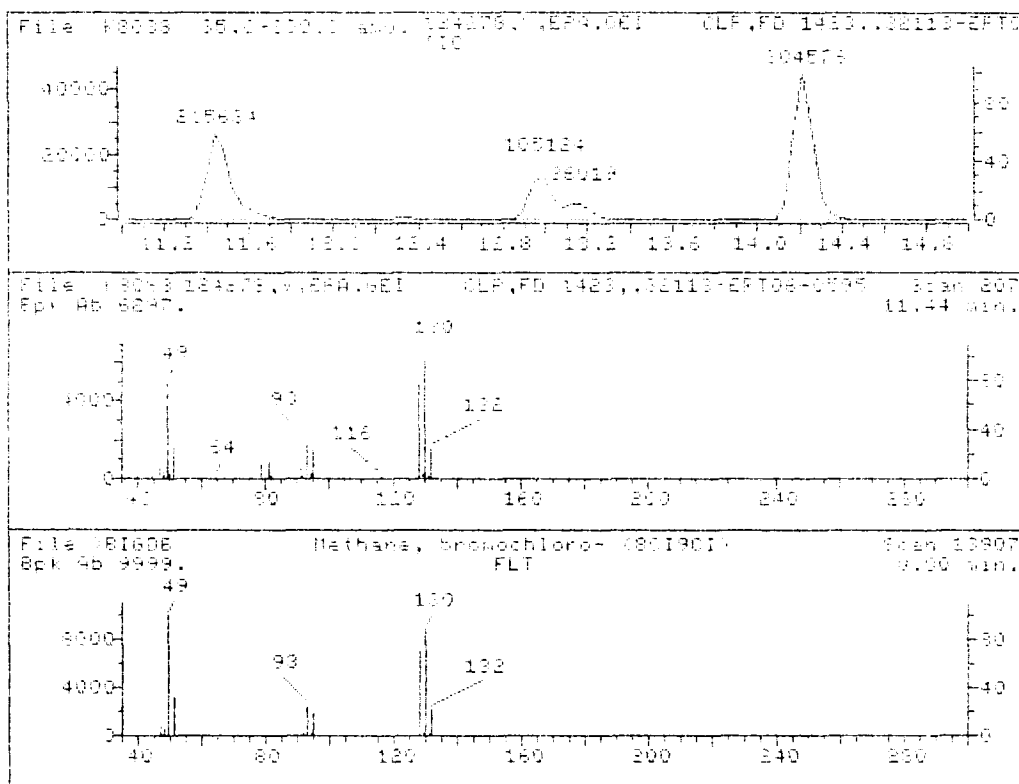
1. Methane, bromochloro- (901301)

118 6022-01

Sample file: 886038 Spectrum #: 207
 Search speed: 1 Tilting option: N No. of ion ranges searched: 41

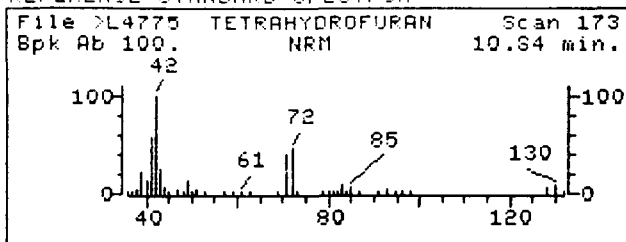
Prob.	CAS #	ION #	ROOT	R	DK	#ELS	TILT	%	CON	C_LI	R_LV	
1.	97+	74875	12307	1810DB	97	15	0	0	78	7	72	37

$$COWC = \frac{215634}{304576} \times \frac{50}{1} = 35.49\%$$

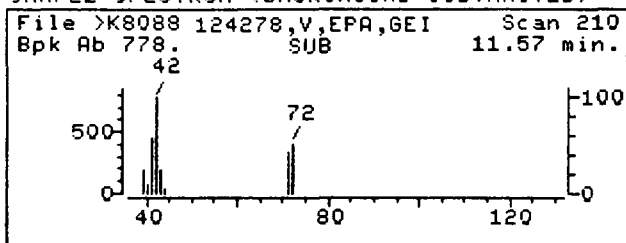


30033

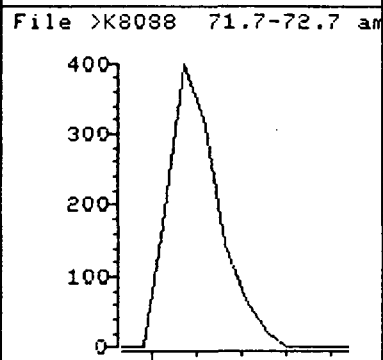
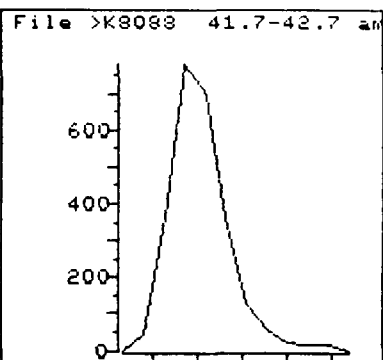
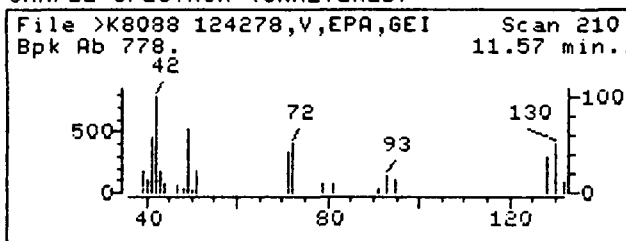
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8088::L2

Quant Output File: ^K8088::K2

Name: 124278,V,EPA,GEI

Misc: CLP,FD 1423,,32113-ERT06-05955,L,W,ALS6 5ML TOM .0

Quant Time: 950604 15:14

Quant ID File: KUOAIID::DB

Injected at: 950604 14:38

Last Calibration: 950604 12:56

Compound No: 22

Compound Name: C198 TETRAHYDROFURAN

Scan Number: 210

Retention Time: 11.57 min.

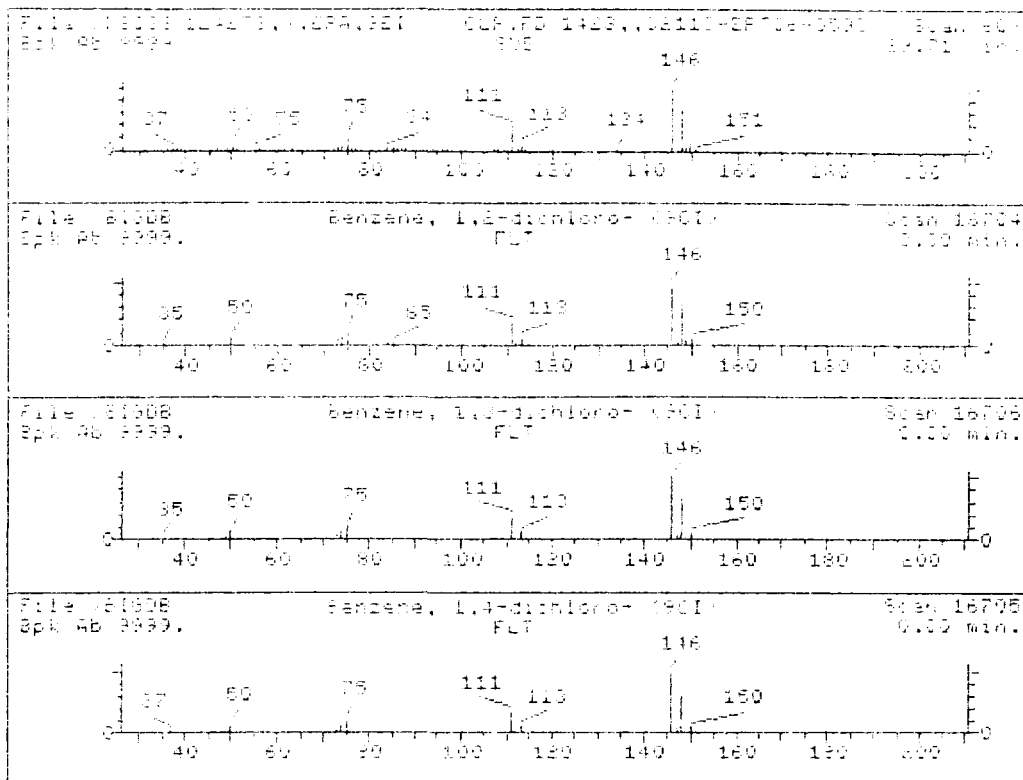
Quant Ion: 42.0

Area: 6731

Concentration: 79.64 UG/L

q-value: 90

NK ✓



5, 21.

UNKNOWN #,3
AREA = 207691.0 TENTATIVE CONCENTRATION IS 32.00

1. Benzene, 1,2-dichloro- (9CI) 146 C6H4Cl2
2. Benzene, 1,3-dichloro- (9CI) 146 C6H4Cl2
3. Benzene, 1,4-dichloro- (9CI) 146 C6H4Cl2
4. 2-Thiophenecarboxaldehyde, 5-chloro- (8CI9CI) 146 C5H3ClO5

Sample file: >K8088 Spectrum #: 508
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	97*	95501	16704	"BIGDB	102	9	0	0	84	5	72	97
2.	96*	541731	16706	"BIGDB	89	19	0	0	82	4	72	96
3.	94*	106467	16705	"BIGDB	85	23	0	0	74	11	64	95
4.	20*	7283967	16703	"BIGDB	20	84	2	0	117	51	5	13

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

92113FW11D

Lab Name: CANORG

Contract: GEI

Lab Code: CANORG

Case No.: FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124147

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K2054

Level: (low/med) LOW

Date Received: 05/26/95

% Moisture: not det.

Date Analyzed: 05/03/95

GC Column: CAP ID 0.030 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO

COMPOUND

Q

74-87-3	Chloromethane	10	10
74-83-9	Bromomethane	10	10
75-01-4	Vinyl Chloride	10	10
75-00-3	Chloroethane	10	10
75-07-5	1,1-Dichloroethane	10	10
67-64-1	Acetone	10	10
75-15-0	Carbon Disulfide	10	10
75-35-4	1,1-Dichloroethane	9	10
75-34-3	1,1-Dichloroethane	54	
840-59-0	1,2-Dichloroethane (total)	120	
67-66-3	Chloroform	10	10
107-06-2	1,2-Dichloroethane	42	
75-93-3	2-Butanone	10	10
71-55-6	1,1,1-Trichloroethane	2	10
55-23-5	Carbon Tetrachloride	10	10
75-27-4	Bromodichloromethane	10	10
75-57-5	1,2-Dichloropropane	10	10
10061-01-7	trans-1,3-Dichloropropene	10	10
79-01-6	Trichloroethene	250	10
124-42-1	Dibromochloromethane	10	10
79-00-0	1,1,2-Trichloroethane	10	10
71-43-2	Benzene	26	
10061-02-6	trans-1,3-Dichloropropene	10	10
75-25-2	Bromoform	10	10
108-10-1	4-Methyl-2-Pentanone	10	10
591-78-6	2-Hexanone	10	10
127-18-4	Tetrachloroethene	46	
79-34-5	1,1,1,2-Tetrachloroethane	10	10
108-88-3	Toluene	10	10
106-90-7	Chlorobenzene	1	10
100-41-4	Ethylbenzene	10	10
100-42-5	Styrene	10	10
1330-20-7	Xylene (total)	10	10

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. —

92113FW11D

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No : FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124147

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K8054

Level: (low/med) LOW

Date Received: 05/26/95

% Moisture: not dec.

Date Analyzed: 06/03/95

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Number TICs Found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 354204	Ethane, 1,2-dichloro-1,1,2-t	5.73	5	JN
2. 95501	Benzene, 1,2-dichloro-	29.72	16	JN

QUANT REPORT

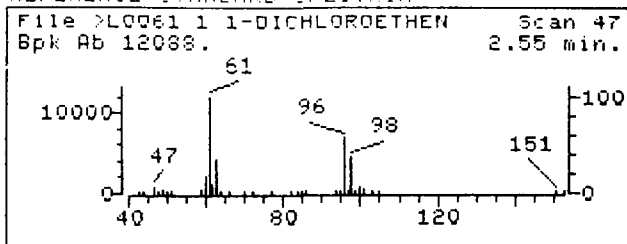
Operator ID: DOUG Quant Rev: 6 Quant Time: 950603 16:14
Output File: ^K8054::K2 Injected at: 950603 15:38
Data File: >K8054::QT Dilution Factor: 1.00000
Name: 124147,U,EPA,GET
Misc: CLP,FD1423.,92113-FW11D-0595,L,W,ALS8 5ML TOM .01

ID File: K00AID::DB
Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
Last Calibration: 950603 10:31

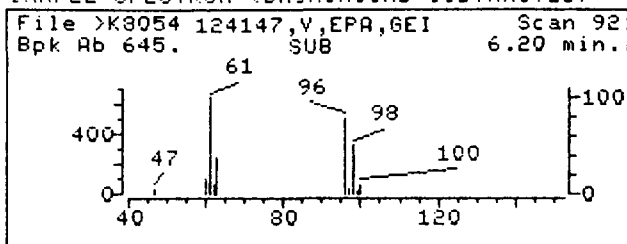
	Compound	R.T.	Q	ion	Area	Conc	Units	q
11)	*CI01 BROMOCHLOROMETHANE IS-1	11.44	128.0		34568	50.00	UG/L	94
11)	C045 1,1-DICHLOROETHENE	6.20	96.0		4389	8.90	UG/L	70
12)	C050 1,1-DICHLOROETHANE	9.30	63.0		54255	53.80	UG/L	95
17)	C053 TOTAL-1,2-DICHLOROETHENE	10.85	96.0		88441	122.60	UG/L	83
19)	C065 1,2-DICHLOROETHANE	13.17	62.0		31151	41.78	UG/L	94
20)	CS15 D4-1,2-DICHLOROETHANE SS1	12.99	65.0		36630	47.10	UG/L	90
24)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.22	114.0		144495	50.00	UG/L	100
25)	C115 1,1,1-TRICHLOROETHANE	12.17	97.0		2362	2.22	UG/L	76
32)	C150 TRICHLOROETHENE	14.90	130.0		268990	250.31	UG/L	88
35)	C165 BENZENE	13.12	78.0		42434	26.48	UG/L	100
38)	*CI20 D5-CHLOROBENZENE IS-3	22.01	117.0		119586	50.00	UG/L	100
41)	C220 TETRACHLOROETHYLENE	19.78	164.0		45997	45.96	UG/L	98
43)	CS05 D-8 TOLUENE (SS-2)	18.14	98.0		126693	49.65	UG/L	87
45)	C235 CHLOROBENZENE	22.10	112.1		2237	1.11	UG/L	98
47)	CS10 BROMOFLUOROBENZENE (SS-3)	25.29	174.0		69107	48.06	UG/L	72

* Compound is ISTD

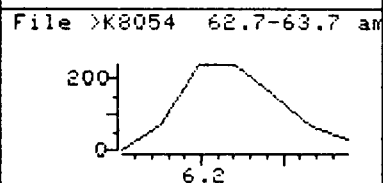
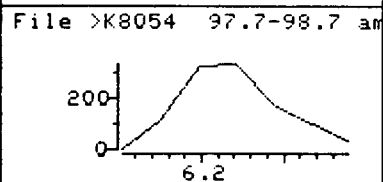
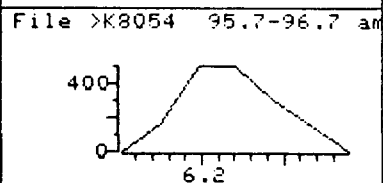
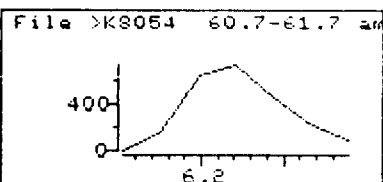
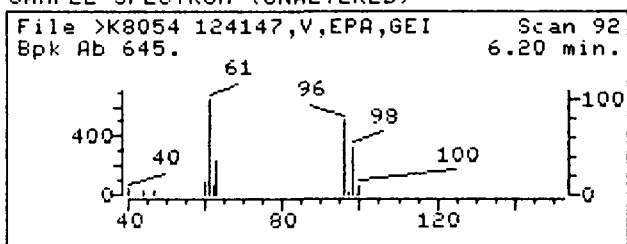
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8054::QT

Quant Output File: ^K8054::K2

Name: 124147,V,EPA,GEI

Misc: CLP,FD1423,,92113-FW11D-0595,L,W,ALS8 5ML TOM .01

Quant Time: 950603 16:14

Quant ID File: KVOAID::DB

Injected at: 950603 15:38

Last Calibration: 950603 10:31

Compound No: 11

Compound Name: C045 1,1-DICHLOROETHENE

Scan Number: 92

Retention Time: 6.20 min.

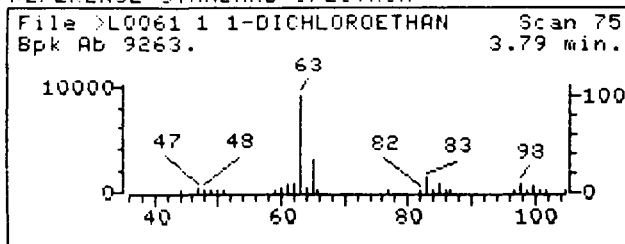
Quant Ion: 96.0

Area: 4389

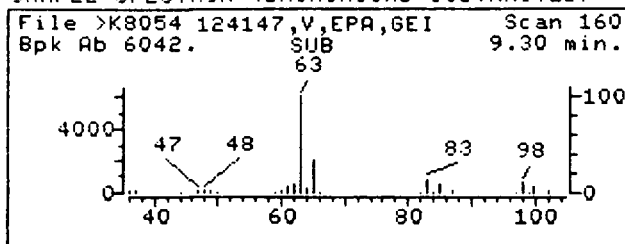
Concentration: 8.90 UG/L

q-value: 70

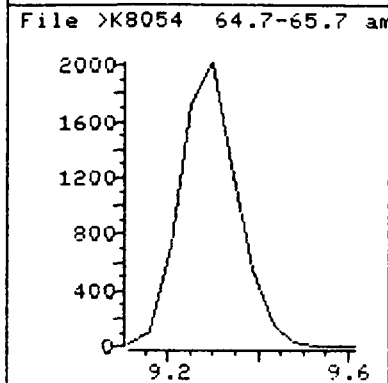
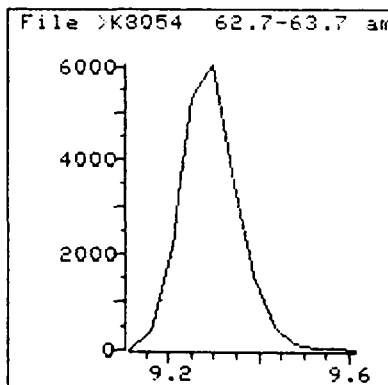
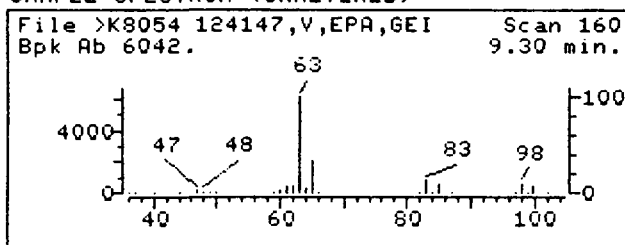
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8054::QT

Quant Output File: ^K8054::K2

Name: 124147,V,EPA,GEI

Misc: CLP,FD1423,,92113-FW11D-0595,L,W,ALS8 5ML TOM .01

Quant Time: 950603 16:14

Quant ID File: KVOID::DB

Injected at: 950603 15:38

Last Calibration: 950603 10:31

Compound No: 12

Compound Name: C050 1,1-DICHLOROETHANE

Scan Number: 160

Retention Time: 9.30 min.

Quant Ion: 63.0

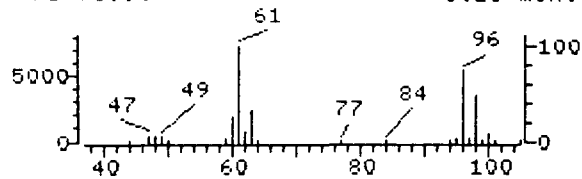
Area: 54255

Concentration: 53.80 UG/L

q-value: 95

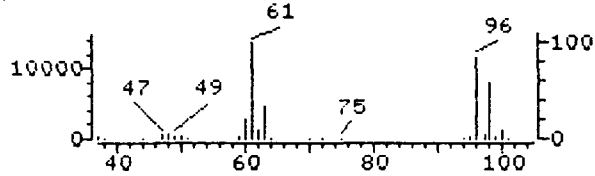
REFERENCE STANDARD SPECTRUM

File >L0062 TRANS-1 2 DICHLOR Scan 63
Bpk Ab 7399. 3.26 min.



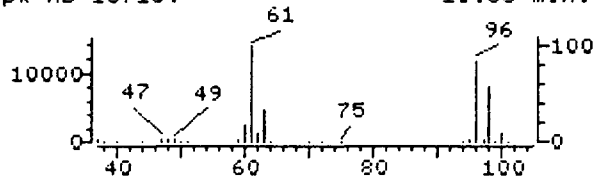
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >K8054 124147,V,EPA,GEI Scan 194
Bpk Ab 13713. SUB 10.85 min.

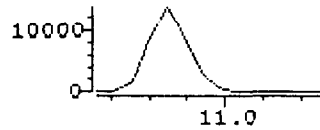


SAMPLE SPECTRUM (UNALTERED)

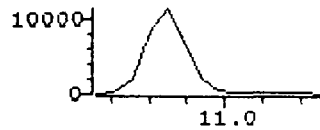
File >K8054 124147,V,EPA,GEI Scan 194
Bpk Ab 13713. 10.85 min.



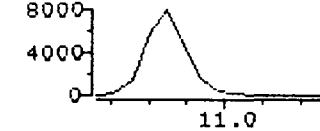
File >K8054 60.7-61.7 am



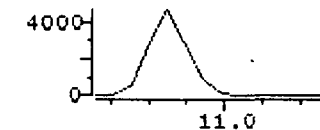
File >K8054 95.7-96.7 am



File >K8054 97.7-98.7 am



File >K8054 62.7-63.7 am



Data File: >K8054::QT

Quant Output File: ^K8054::K2

Name: 124147,V,EPA,GEI

Misc: CLP,FD1423,,92113-FW11D-0595,L,W,ALSB 5ML TOM .01

Quant Time: 950603 16:14

Quant ID File: K00AID::DB

Injected at: 950603 15:38

Last Calibration: 950603 10:31

Compound No: 17

Compound Name: C053 TOTAL-1,2-DICHLOROETHENE

Scan Number: 194

Retention Time: 10.85 min.

Quant Ion: 96.0

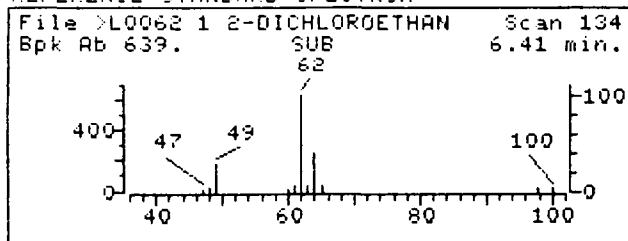
Area: 88441

Concentration: 122.60 UG/L

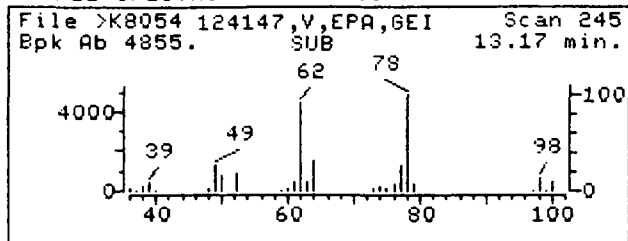
q-value: 83

Handwritten: OK
NO TRANS-1,2-DICHLOROETHENE

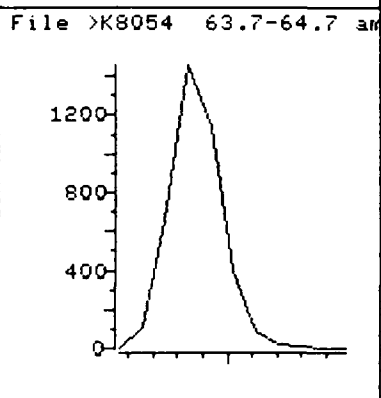
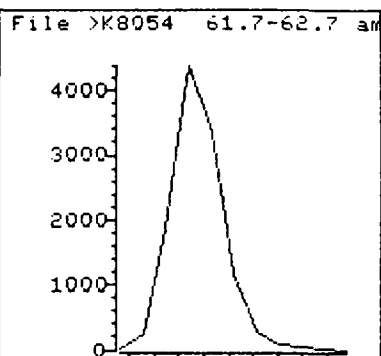
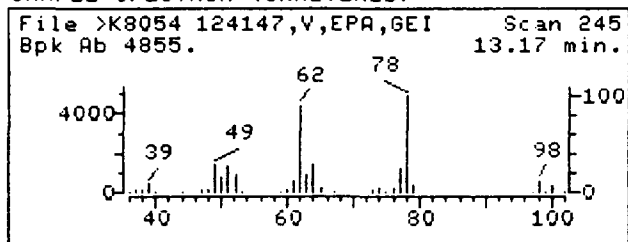
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8054::QT

Quant Output File: ^K8054::K2

Name: 124147,V,EPA,GEI

Misc: CLP,FD1423,,92113-FW11D-0595,L,W,ALS8 5ML TOM .01

Quant Time: 950603 16:14

Quant ID File: KVOAID::DB

Injected at: 950603 15:38

Last Calibration: 950603 10:31

Compound No: 19

Compound Name: C065 1,2-DICHLOROETHANE

Scan Number: 245

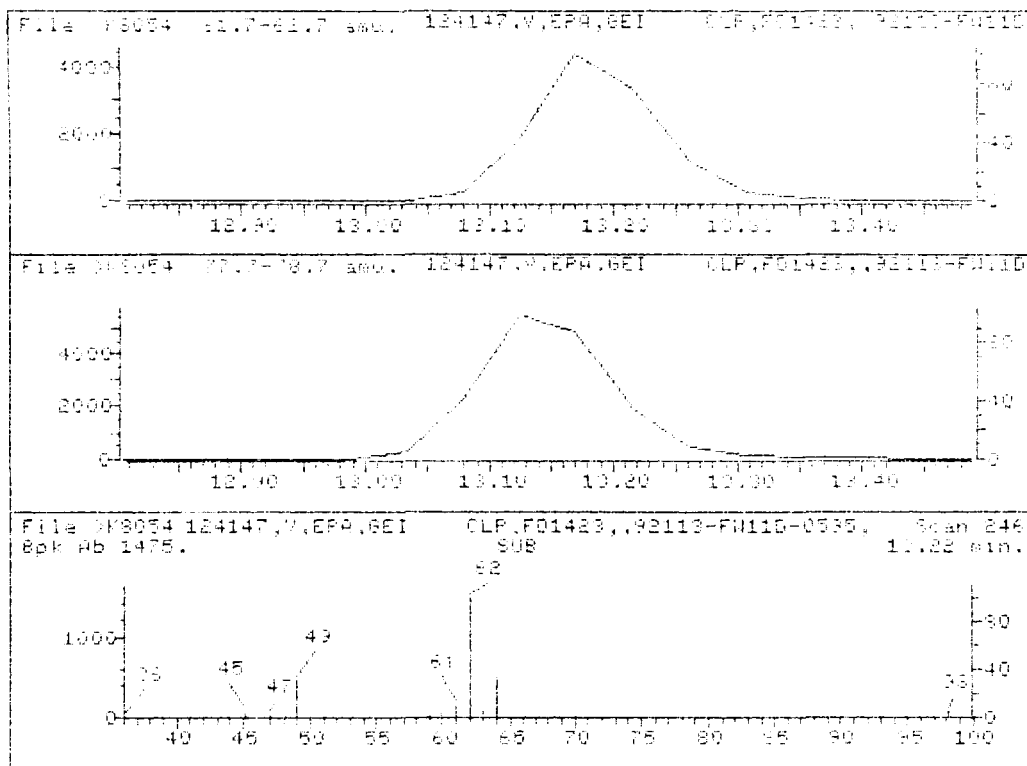
Retention Time: 13.17 min.

Quant Ion: 62.0

Area: 31151

Concentration: 41.78 UG/L

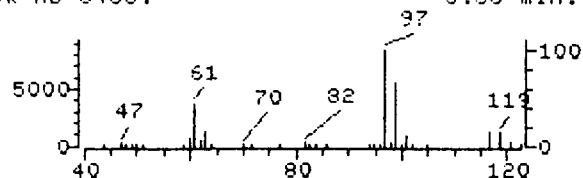
q-value: 94



1,2 D. univ. seth

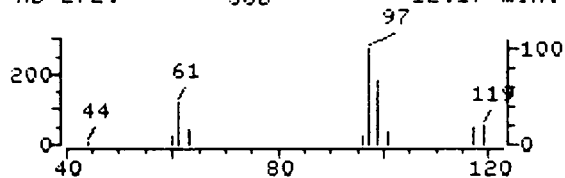
REFERENCE STANDARD SPECTRUM

File >L0062 1 1 1-TRICHLOROET Scan 115
Bpk Ab 8466. 5.56 min.



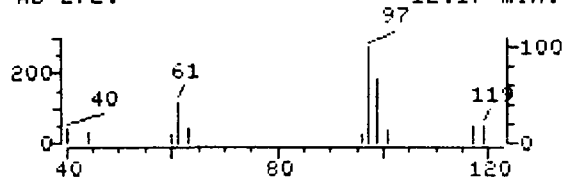
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >K8054 124147,V,EPA,GEI Scan 223
Bpk Ab 272. SUB 12.17 min.

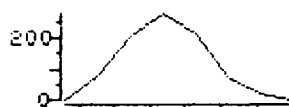


SAMPLE SPECTRUM (UNALTERED)

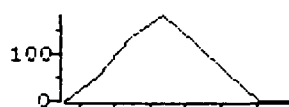
File >K8054 124147,V,EPA,GEI Scan 223
Bpk Ab 272. 12.17 min.



File >K8054 96.7-97.7 am



File >K8054 98.7-99.7 am



File >K8054 60.7-61.7 am



File >K8054 62.7-63.7 am



Data File: >K8054::QT

Quant Output File: ^K8054::K2

Name: 124147,V,EPA,GEI

Misc: CLP,FD1423,,92113-FW11D-0595,L,W,ALS8 5ML TOM .01

Quant Time: 950603 16:14

Quant ID File: KUID:DR

Injected at: 950603 15:38

Last Calibration: 950603 10:31

Compound No: 25

Compound Name: C115 1,1,1-TRICHLOROETHANE

Scan Number: 223

Retention Time: 12.17 min.

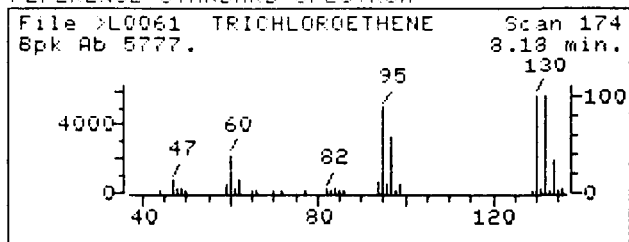
Quant Ion: 97.0

Area: 2362

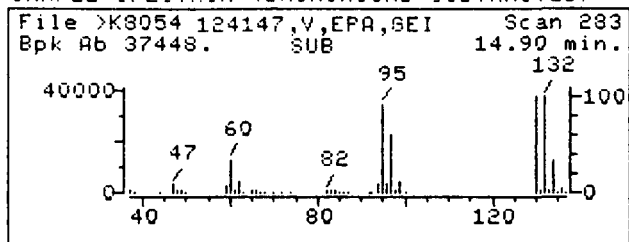
Concentration: 2.22 UG/L

q-value: 76

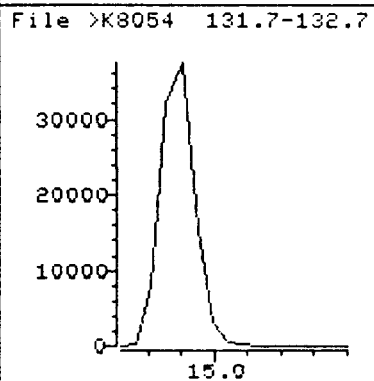
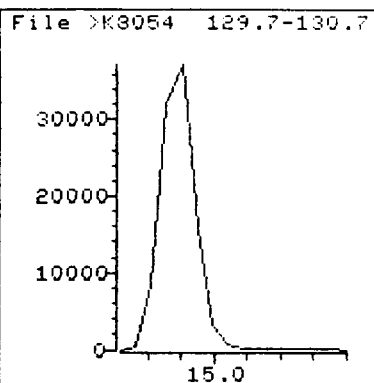
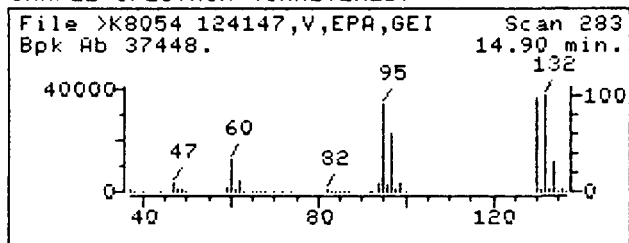
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8054::QT

Quant Output File: ^K8054::K2

Name: 124147,V,EPA,GEI

Misc: CLP,FD1423,,92113-FW11D-0595,L,W,ALS8 5ML TOM .01

Quant Time: 950603 16:14

Quant ID File: KVOAID::DB

Injected at: 950603 15:38

Last Calibration: 950603 10:31

Compound No: 32

Compound Name: C150 TRICHLOROETHENE

Scan Number: 283

Retention Time: 14.90 min.

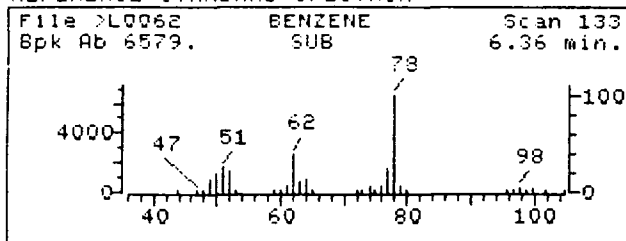
Quant Ion: 130.0

Area: 268990

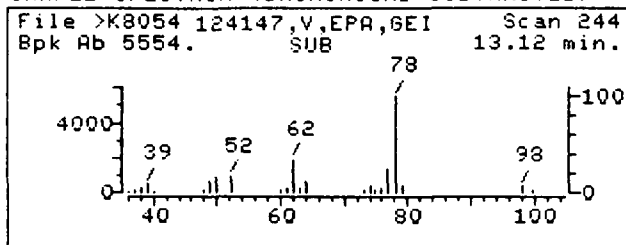
Concentration: 250.31 UG/L

q-value: 88

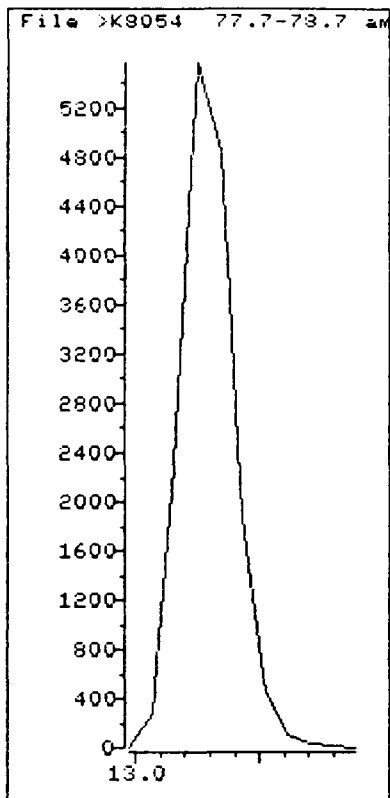
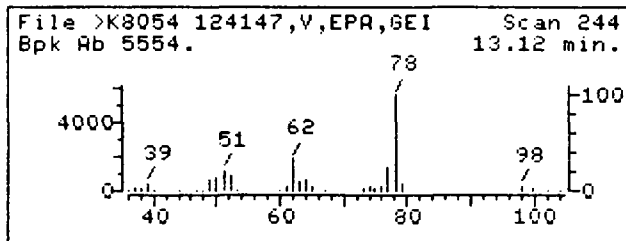
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8054::QT

Quant Output File: ^K8054::K2

Name: 124147,U,EPA,GEI

Misc: CLP,FD1423,,92113-FW11D-0595,L,W,ALS8 5ML TUM .01

Quant Time: 950603 16:14

Quant ID File: K00AID::DB

Injected at: 950603 15:38

Last Calibration: 950603 10:31

Compound No: 35

Compound Name: C165 BENZENE

Scan Number: 244

Retention Time: 13.12 min.

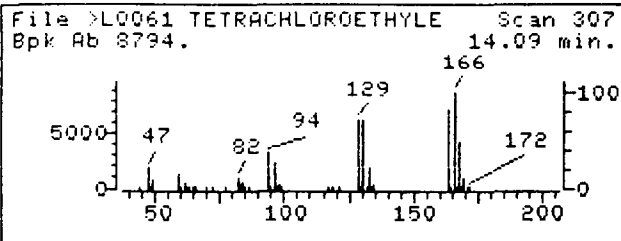
Quant Ion: 78.0

Area: 42434

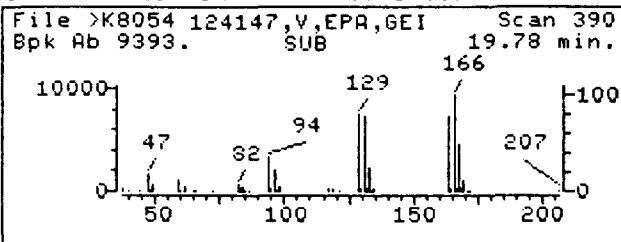
Concentration: 26.48 UG/L

q-value: 100

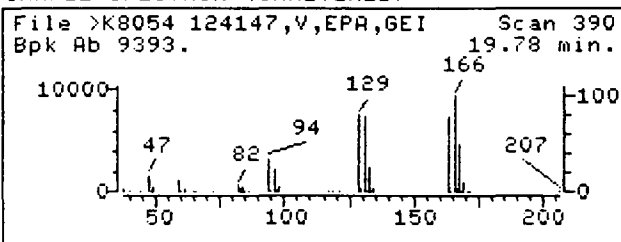
REFERENCE STANDARD SPECTRUM



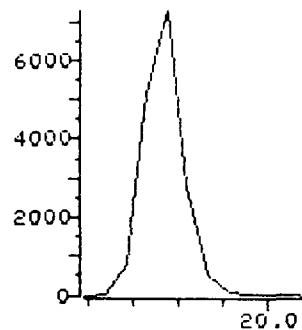
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



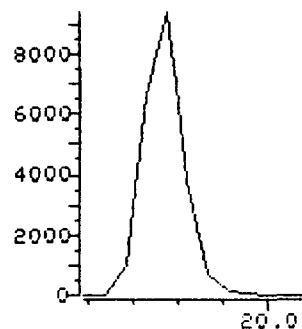
SAMPLE SPECTRUM (UNALTERED)



File >K8054 163.7-164.7



File >K8054 165.7-166.7



Data File: >K8054::QT

Quant Output File: ^K8054::K2

Name: 124147,V,EPA,GEI

Misc: CLP,FD1423,,92113-FW11D-0595,L,W,ALS8 5ML TOM .01

Quant Time: 950603 16:14

Quant ID File: KVOAID::DB

Injected at: 950603 15:38

Last Calibration: 950603 10:31

Compound No: 41

Compound Name: C220 TETRACHLOROETHYLENE

Scan Number: 390

Retention Time: 19.78 min.

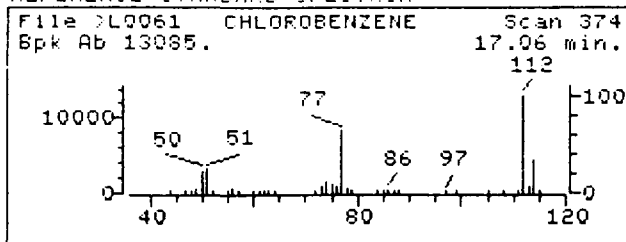
Quant Ion: 164.0

Area: 45997

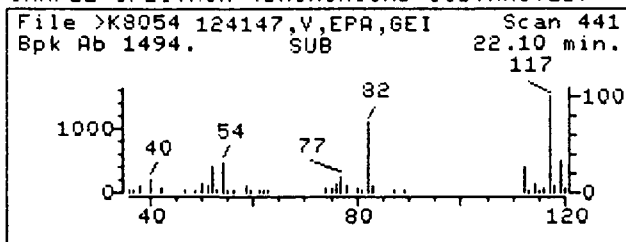
Concentration: 45.96 UG/L

q-value: 98

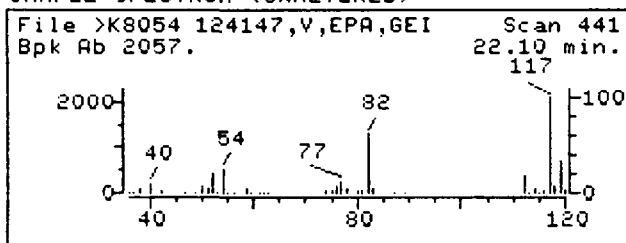
REFERENCE STANDARD SPECTRUM



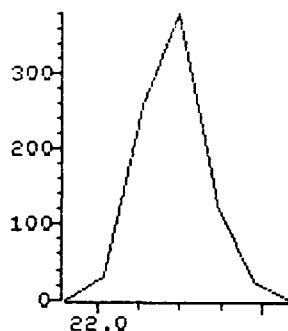
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



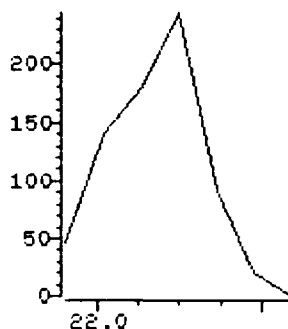
SAMPLE SPECTRUM (UNALTERED)



File >K8054 111.8-112.8



File >K8054 76.7-77.7 am



Data File: >K8054::QT

Quant Output File: ^K8054::K2

Name: 124147,V,EPA,GEI

Misc: CLP,FD1423,,92113-FW11D-0595,L,W,ALS8 5ML TOM .01

Quant Time: 950603 16:14

Quant ID File: KVOAID::DB

Injected at: 950603 15:38

Last Calibration: 950603 10:31

Compound No: 45

Compound Name: C235 CHLOROBENZENE

Scan Number: 441

Retention Time: 22.10 min.

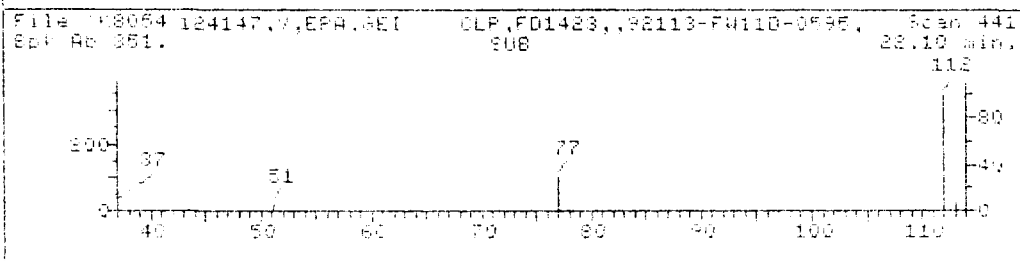
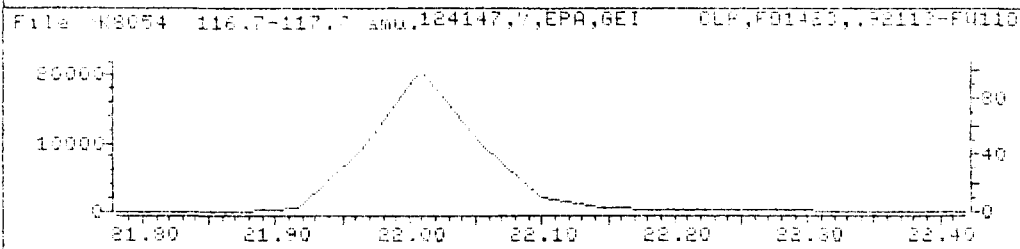
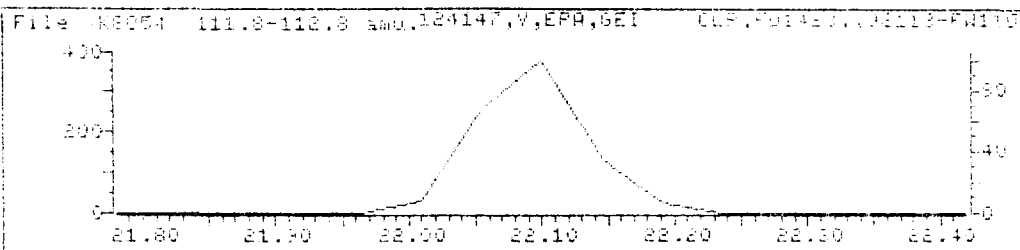
Quant Ion: 112.1

Area: 2237

Concentration: 1.11 UG/L

q-value: 98

Clean spectrum →



Chromatogram

MS data file header from : IK6054

Sample: 124147,U,EPA,GEI Operator: 0006 SUPER GRP. 6/03/65 15:23
Misc : CLP,FD1423,,92113-FW110-0595,L,W,AL58 SML TOP 1.01
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS #: 0
Method file: KVOA Tuning file: MTUNEK No. of extra records: 2
Source temp.: 0 Analyzer temp.: 220 Transfer line temp.: 0

Chromatographic temperatures : 37. 150. 150. 0. 0.
Chromatographic times, min. : 7.0 4.0 3.0 3.0 0.0
Chromatographic rate, deg/min: 5.0 5.0 0.0 .2 0.0

IK6054 124147,U,EPA,GEI CLP,FD1423,,92113-FW110-0595,L,W,AL58
35.01 300.0 CLP TIC
Upslope: .20 Area Reject: 22783. Max Peaks: 3 Bunching: 1
Dnslope: 0.00 Results File IK6054 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	2.82	15	18	32	15814	199895	199458	100.00	61.132
2	8.74	78	82	99	2369	24753	23063	11.71	7.175
3	19.71	605	508	615	14248	104259	131842	51.54	37.690

Sum of corrected areas: 321363.

Summary of Unknowns FBM Library Search and Quantitation

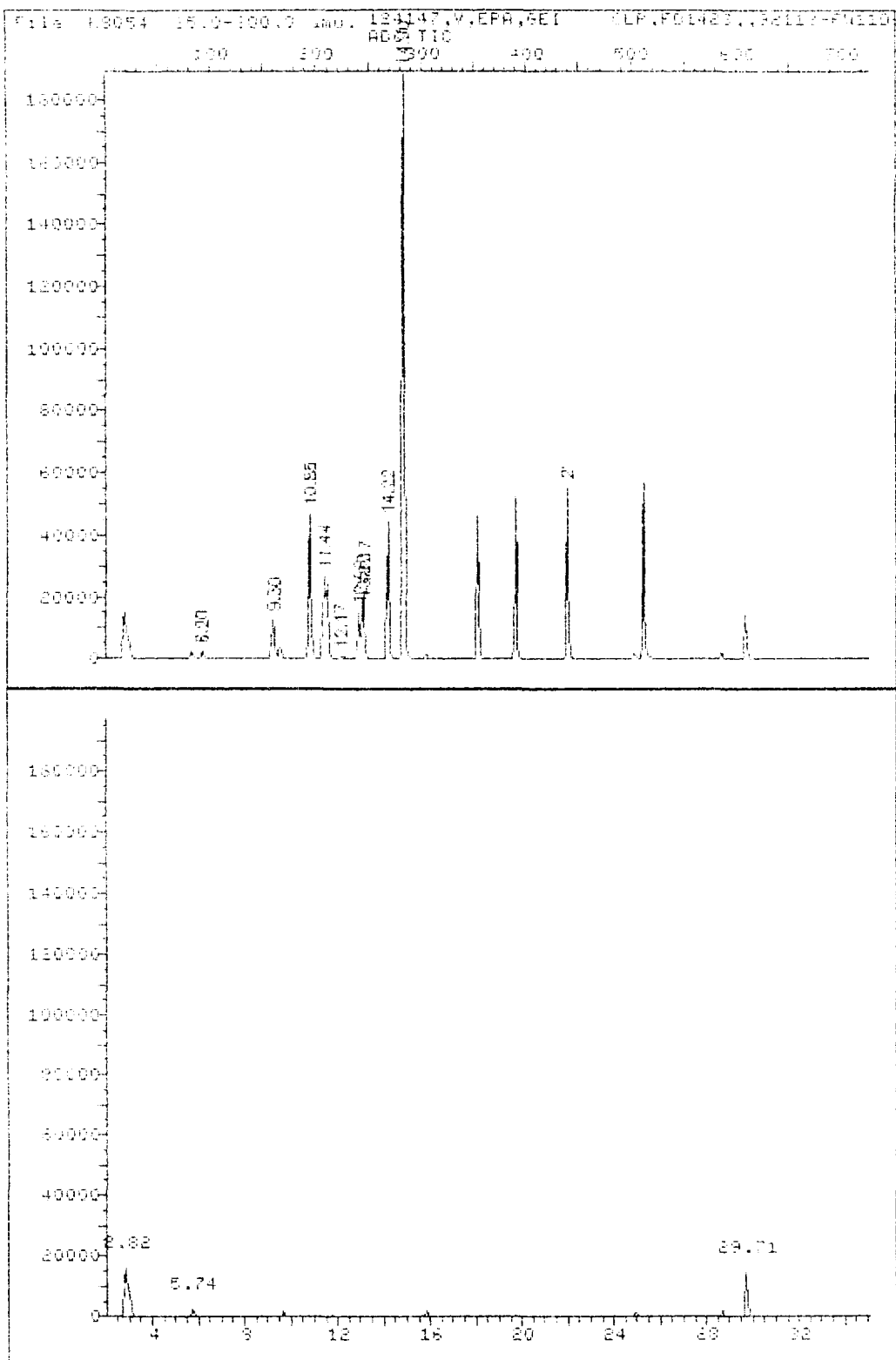
Standard	Concentration	area	Retention Time	Unknown Window
1	50.0	227877.	11.44	2.05 - 12.33
2	50.0	239555.	14.22	10.33 - 15.11
3	50.0	322738.	22.01	15.11 - 25.02

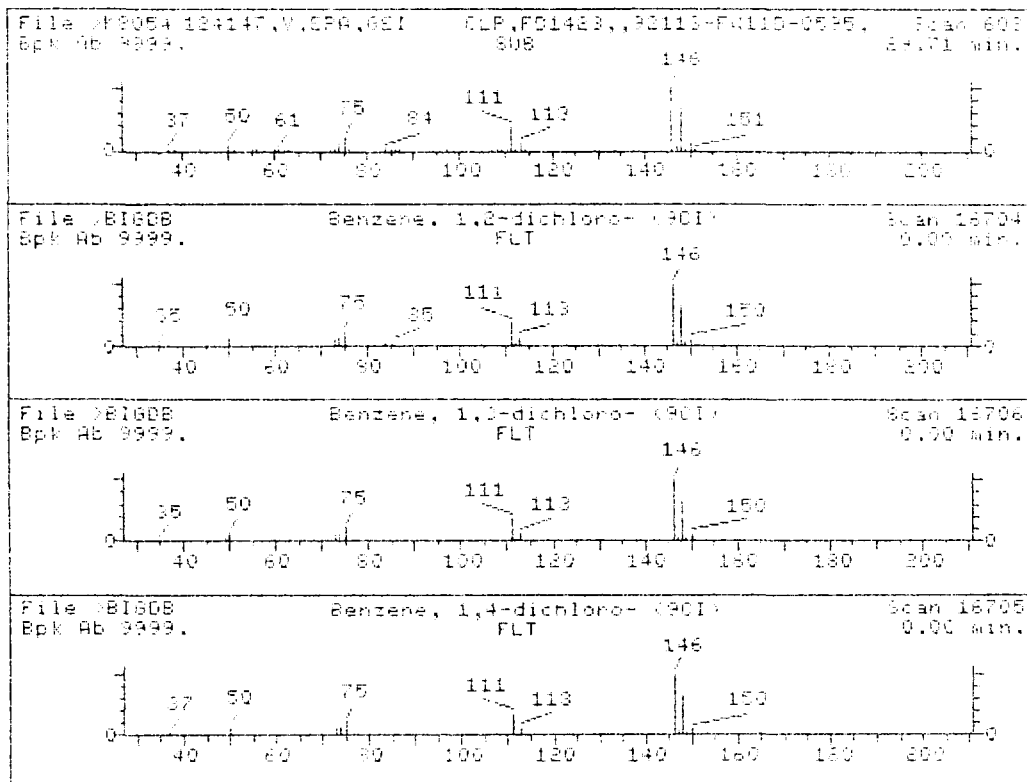
101 Dilution Factor = 1.00 U dilf = 1.00
Method called for 1000.000 g or mL This sample was 1000.000 g or mL

Correction Factor = 1.00

Unknown Concentration = $\frac{\text{Cons Int Std}}{\text{Area Int Std}} \times \text{Area Unknown} \times \text{Correction Factor}$

3:17 PM FRI., 9 JUNE, 1965





✓ by 7.1.

CH462
15/04/02

UNKNOWN #,3
AREA = 101942.0 TENTATIVE CONCENTRATION IS 16.20

- | | |
|--|--------------|
| 1. Benzene, 1,2-dichloro- (901) | 146 C6H4Cl2 |
| 2. Benzene, 1,3-dichloro- (901) | 146 C6H4Cl2 |
| 3. Benzene, 1,4-dichloro- (901) | 146 C6H4Cl2 |
| 4. Furan, 3-bromo- (801301) | 146 C4H3BrO |
| 5. 2-Thiophenecarboxaldehyde, 5-chloro- (801301) | 146 C5H3ClO2 |

Sample file: >K8054 Spectrum #: 608
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DF	#FLG	TILT	%	CON	C_I	R_IV
1.	97*	95501	16704	"B1608	100	11	0	0	74	5	72	97
2.	95*	541731	16706	"B1608	87	21	0	0	73	4	72	95
3.	93*	106467	16705	"B1608	88	20	1	0	81	2	68	86
4.	25*	22037231	16904	"B1608	26	73	3	0	57	42	8	13
5.	20*	7283967	16703	"B1608	20	84	2	0	117	51	5	13

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SP4 SAMPLE NO. _____

92113FW11DDL

Lab Name: CAMBRO

Contract: GEI

Lab Code: CAMBRO

Case No.: FD1423

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: 124147DL

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K8086

Level: (low/med) LOW

Date Received: 05/26/95

% Moisture: not dec.

Date Analyzed: 06/04/95

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 5.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	6	BDJ
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	50	U
75-35-4	1,1-Dichloroethene	6	DJ
75-34-3	1,1-Dichloroethane	44	DJ
540-59-0	1,2-Dichloroethene (total)	100	DY
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	34	DJ
78-43-3	2-Butanone	50	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon Tetrachloride	50	U
75-27-4	Bromodichloromethane	50	U
75-37-5	1,2-Dichloropropane	50	U
10061-01-3	cis-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	210	D
124-48-1	Dibromochloromethane	50	U
79-00-8	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	22	DJ
10061-02-6	trans-1,3-Dichloropropene	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	40	DJ
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-98-3	Toluene	50	U
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U
100-42-5	Styrene	50	U
1330-20-7	Xylene (total)	50	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

92113FW11DDL

Lab name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124147DL

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K8086

Level: (low/med) LOW

Date Received: 05/26/95

% Moisture: not dec.

Date Analyzed: 06/04/95

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 5.0

Soil Extract Volume: (uL)

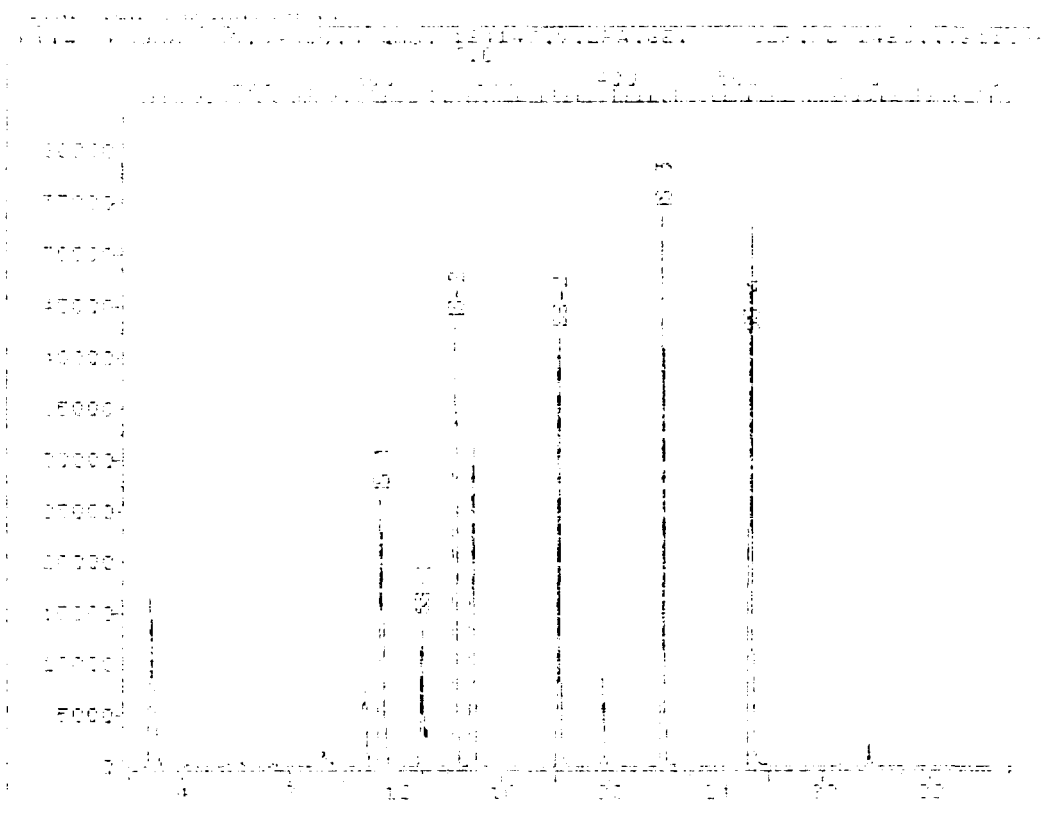
Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q



File: 71101-806 Date: 09/01/80
 Time: 11:11:11.00
 File: 71101-806 Date: 09/01/80 Time: 11:11:11.00

Operator: J. J. J. J.
 Sample: 71101-806
 Inj. Vol: 1.00
 Inj. Temp: 250.00
 Inj. Rate: 1.00

QUANT REPORT

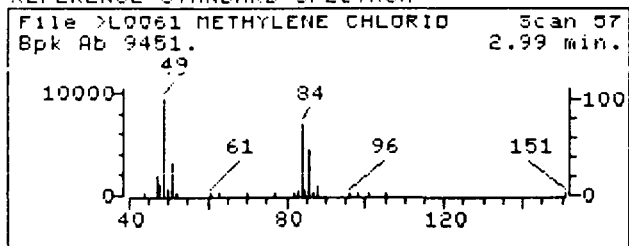
Operator ID: DOUG Quant Rev: 6 Quant Time: 950604 13:56
 Output File: ^K8086::K2 Injected at: 950604 13:20
 Data File: >K8086::L2 Dilution Factor: 1.00000
 Name: 124147,U,EPA,GET
 Misc: CLP,FD 1423,,92113-FW11D-0595,L,W,ALS4 1:5 TOM .01

ID File: KVOAID::DB
 Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
 Last Calibration: 950604 12:56

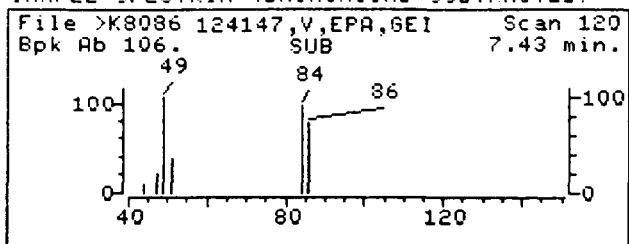
	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*CI01 BROMOCHLOROMETHANE IS-1	11.43	208	33178	50.00	UG/L	92
8)	C030 METHYLENE CHLORIDE	7.43	120	757	1.25	UG/L	84
11)	C045 1,1-DICHLOROETHENE	6.20	93	606	1.20	UG/L	68
12)	C050 1,1-DICHLOROETHANE	9.29	161	85010	8.74	UG/L	96
17)	C053 TOTAL-1,2-DICHLOROETHENE	10.84	195	14306M	20.12	UG/L	85
19)	C065 1,2-DICHLOROETHANE	13.17	246	4834	6.71	UG/L	93
20)	CS15 D4-1,2-DICHLOROETHANE SS1	12.98	242	34386	49.76	UG/L	91
24)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.21	269	139984	50.00	UG/L	100
32)	C150 TRICHLOROETHENE	14.90	284	45808	42.67	UG/L	87
35)	C165 BENZENE	13.12	245	7254	4.50	UG/L	100
38)	*CI20 D5-CHLOROBENZENE IS-3	22.00	440	115191	50.00	UG/L	100
41)	C220 TETRACHLOROETHYLENE	19.77	391	8068	7.96	UG/L	99
43)	CS05 D-8 TOLUENE (SS-2)	18.13	355	116143	48.96	UG/L	92
47)	CS10 BROMOFLUOROBENZENE (SS-3)	25.28	512	65131	50.39	UG/L	74

* Compound is ISTD

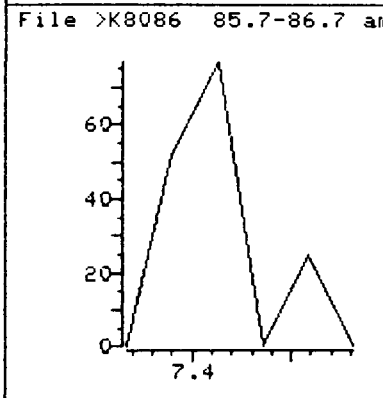
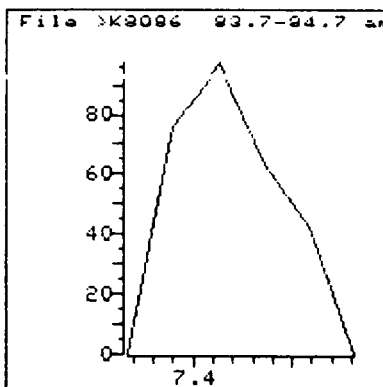
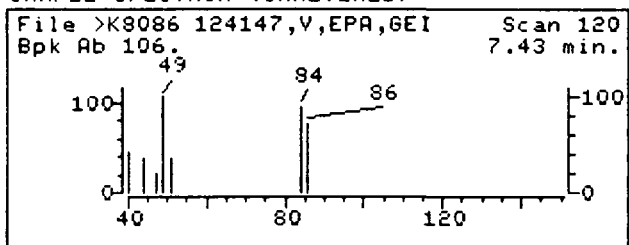
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8086::L2

Quant Output File: ^K8086::K2

Name: 124147,V,EPA,GEI

Misc: CLP,FD 1423,,92113-FW11D-0595,L,W,ALS4 1:5 TOM .01

Quant Time: 950604 13:56

Quant ID File: KVOAID::DB

Injected at: 950604 13:20

Last Calibration: 950604 12:56

Compound No: 8

Compound Name: C030 METHYLENE CHLORIDE

Scan Number: 120

Retention Time: 7.43 min.

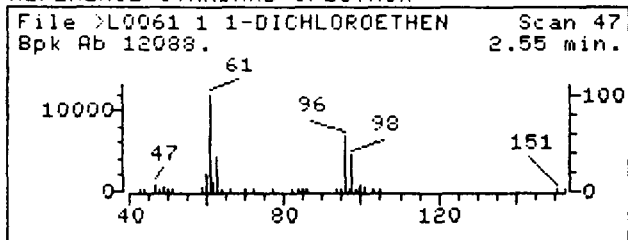
Quant Ion: 84.0

Area: 757

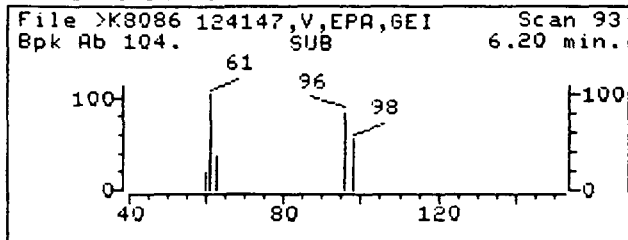
Concentration: 1.25 UG/L

q-value: 84

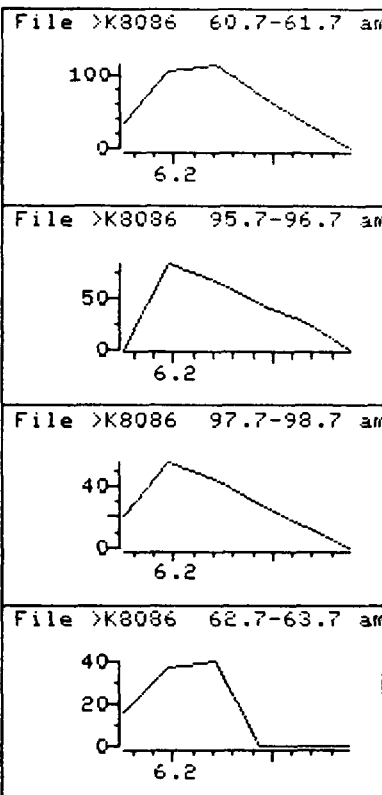
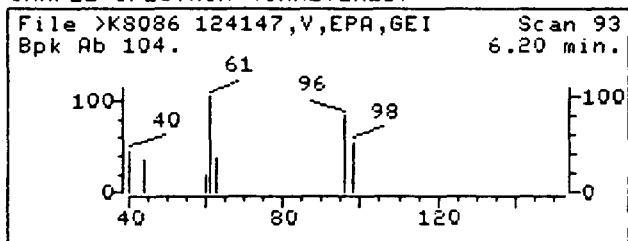
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8086::L2

Quant Output File: ^K8086::K2

Name: 124147,V,EPA,GEI

Misc: CLP,FD 1423,,92113-FW11D-0595,L,W,ALS4 1:5 TOM .01

Quant Time: 950604 13:56

Quant ID File: KVOAID::DB

Injected at: 950604 13:20

Last Calibration: 950604 12:56

Compound No: 11

Compound Name: C045 1,1-DICHLOROETHENE

Scan Number: 93

Retention Time: 6.20 min.

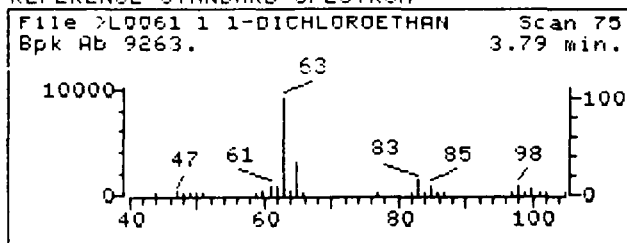
Quant Ion: 96.0

Area: 606

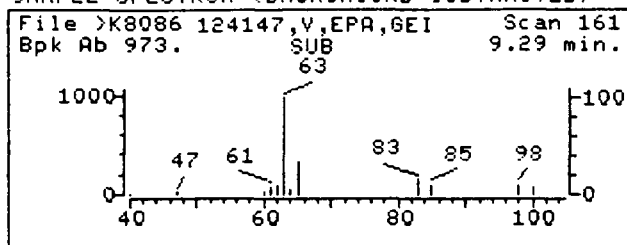
Concentration: 1.20 UG/L

q-value: 68

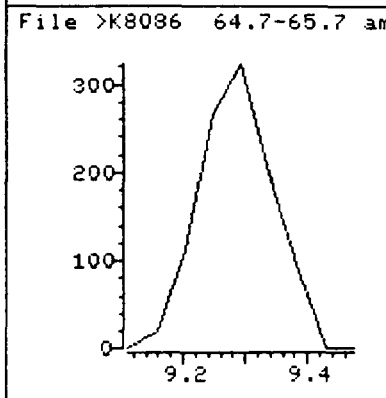
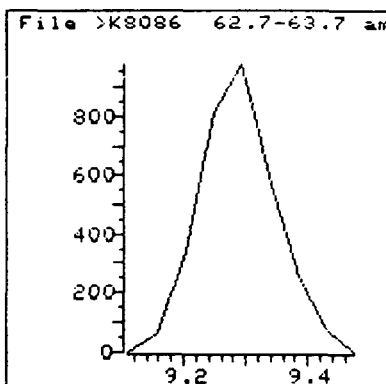
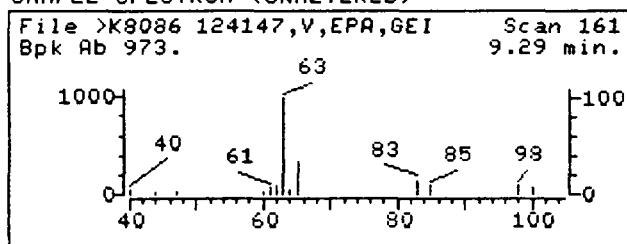
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8086::L2

Quant Output File: ^K8086::K2

Name: 124147,V,EPA,GEI

Misc: CLP,FD 1423,,92113-FW11D-0595,L,W,ALS4 1:5 TOM .01

Quant Time: 950604 13:56

Quant ID File: KVOAID::DB

Injected at: 950604 13:20

Last Calibration: 950604 12:56

Compound No: 12

Compound Name: C050 1,1-DICHLOROETHANE

Scan Number: 161

Retention Time: 9.29 min.

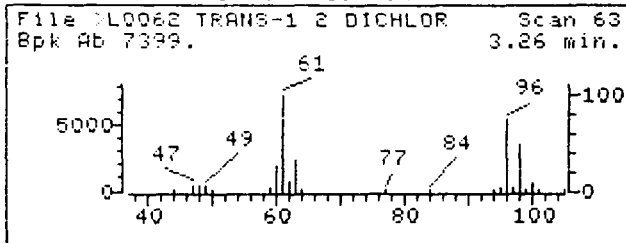
Quant Ion: 63.0

Area: 8501

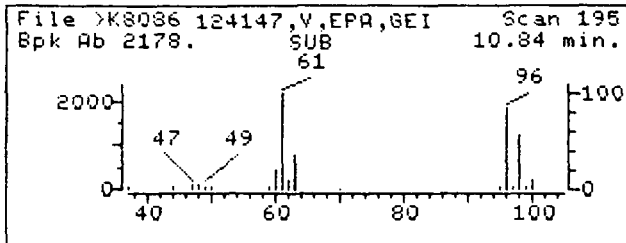
Concentration: 8.74 UG/L

q-value: 96

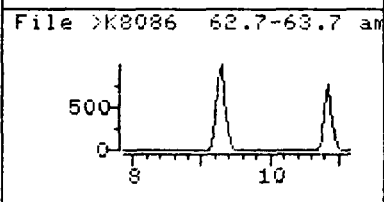
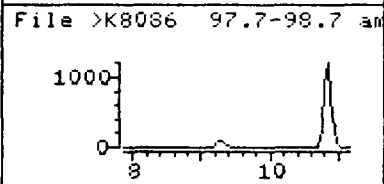
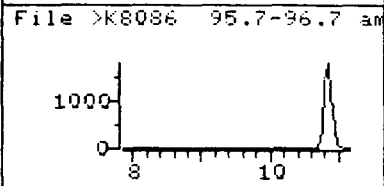
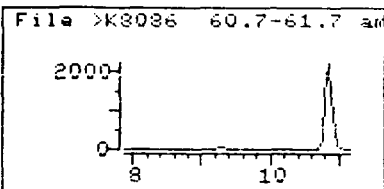
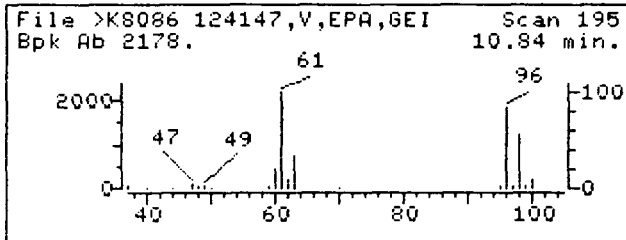
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8086::L2

Quant Output File: ^K8086::K2

Name: 124147,V,EPA,GEI

Misc: CLP,FD 1423,,92113-FW11D-0595,L,W,ALS4 1:5 TOM .01

Quant Time: 950604 13:56

Quant ID File: KVOAID::DB

Injected at: 950604 13:20

Last Calibration: 950604 12:56

Compound No: 17

Compound Name: C053 TOTAL-1,2-DICHLOROETHENE

Scan Number: 195

Retention Time: 10.84 min.

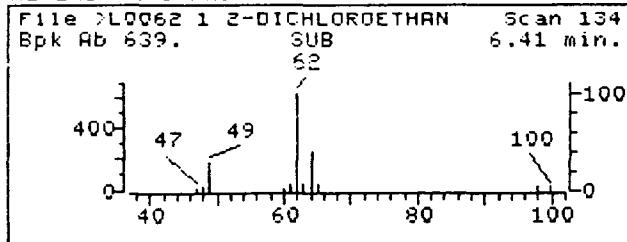
Quant Ion: 96.0

Area: 14306M

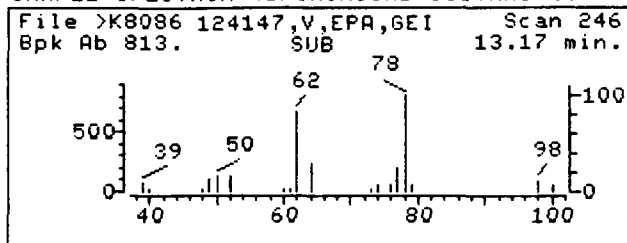
Concentration: 20.12 UG/L

q-value: 85

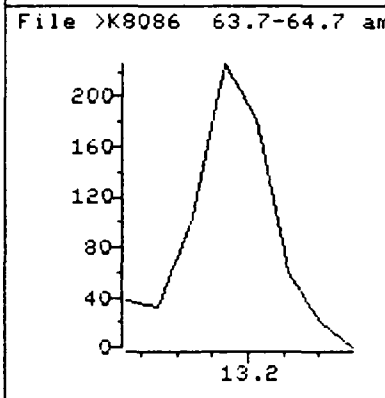
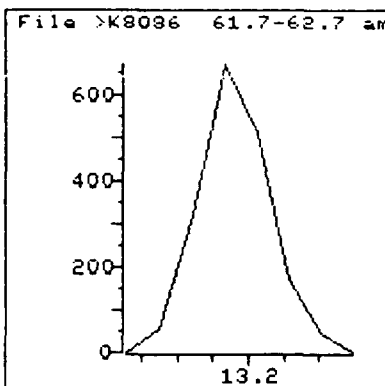
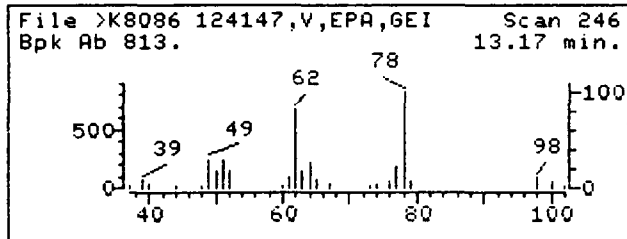
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8086::L2

Quant Output File: ^K8086::K2

Name: 124147,V,EPA,GEI

Misc: CLP,FD 1423,,92113-FW11D-0595,L,W,ALS4 1:5 TOM .01

Quant Time: 950604 13:56

Quant ID File: KVOAID::DB

Injected at: 950604 13:20

Last Calibration: 950604 12:56

Compound No: 19

Compound Name: C065 1,2-DICHLOROETHANE

Scan Number: 246

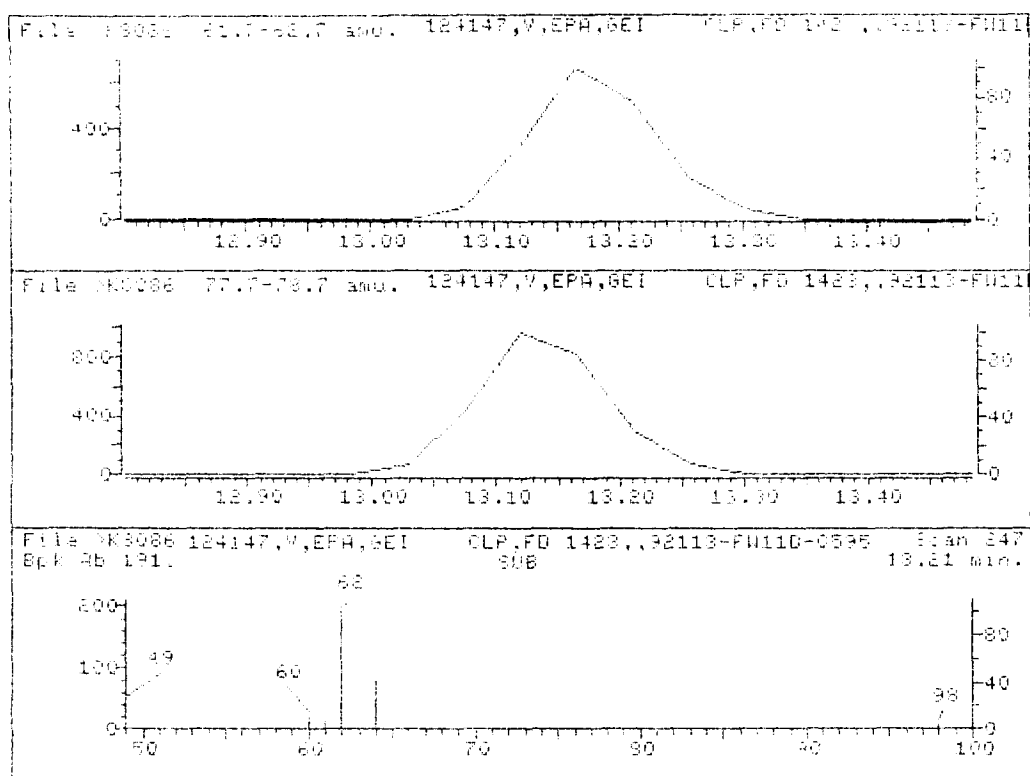
Retention Time: 13.17 min.

Quant Ion: 62.0

Area: 4834

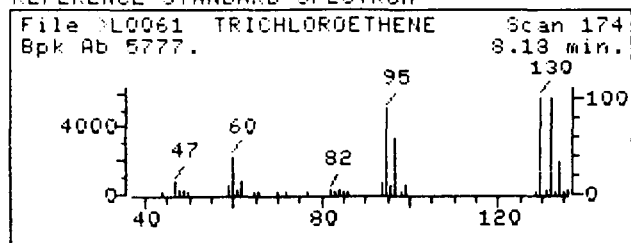
Concentration: 6.71 UG/L

q-value: 93

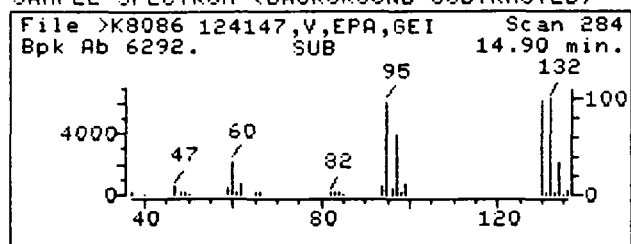


1,2300

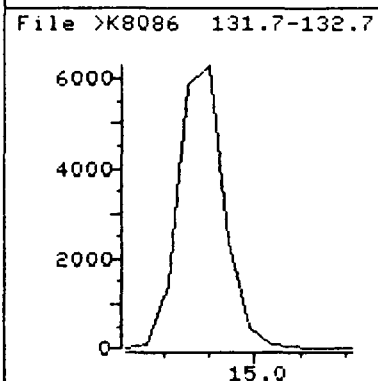
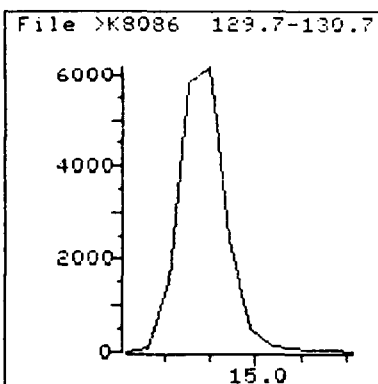
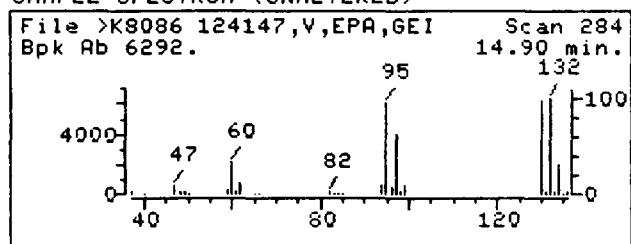
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8086::L2

Quant Output File: ^K8086::K2

Name: 124147,V,EPA,GEI

Misc: CLP,FD 1423,,92113-FW11D-0595,L,W,ALS4 1:5 TOM .01

Quant Time: 950604 13:56

Quant ID File: KVOAID::DB

Injected at: 950604 13:20

Last Calibration: 950604 12:56

Compound No: 32

Compound Name: C150 TRICHLOROETHENE

Scan Number: 284

Retention Time: 14.90 min.

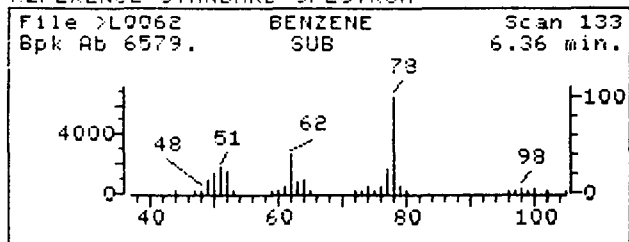
Quant Ion: 130.0

Area: 45808

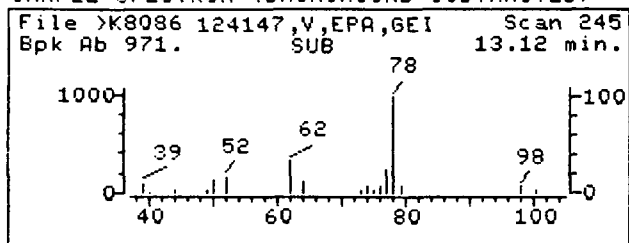
Concentration: 42.67 UG/L

q-value: 87

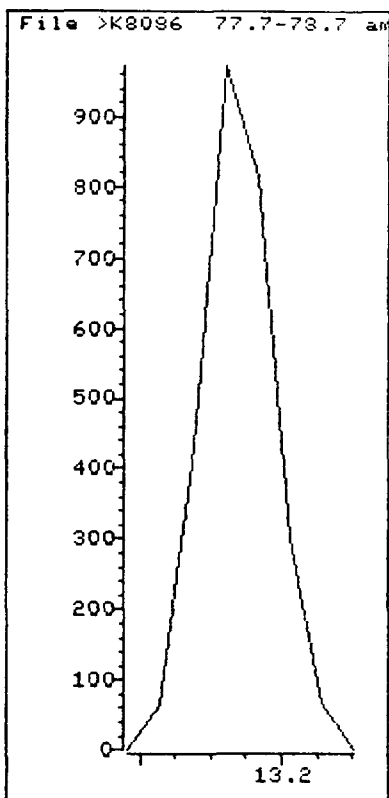
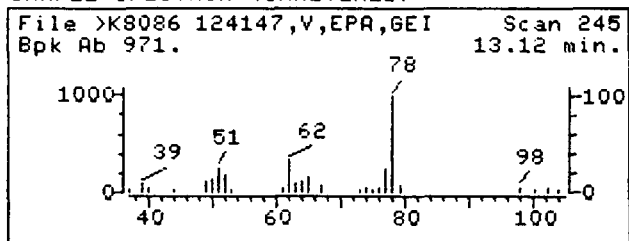
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8086::L2

Name: 124147,V,EPA,GEI

Misc: CLP,FD 1423,,92113-FW11D-0595,L,W,ALS4 1:5 TOM .01

Quant Time: 950604 13:56

Injected at: 950604 13:20

Quant Output File: ^K8086::K2

Quant ID File: KVOAID::DB

Last Calibration: 950604 12:56

Compound No: 35

Compound Name: C165 BENZENE

Scan Number: 245

Retention Time: 13.12 min.

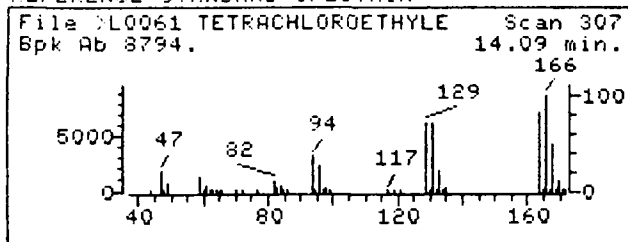
Quant Ion: 78.0

Area: 7254

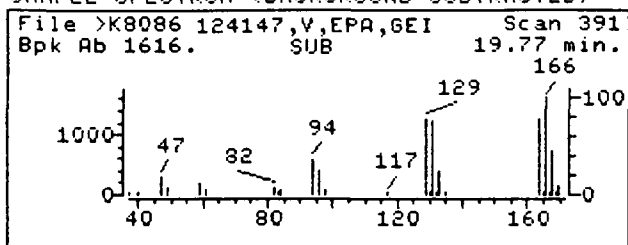
Concentration: 4.50 UG/L

q-value: 100

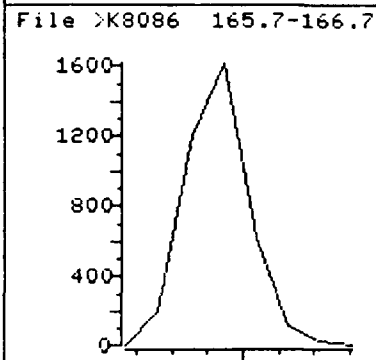
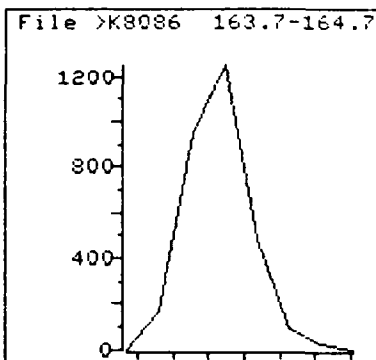
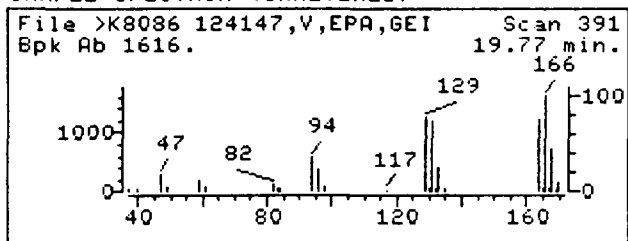
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8086::L2

Quant Output File: ^K8086::K2

Name: 124147,V,EPA,GEI

Misc: CLP,FD 1423,,92113-FW11D-0595,L,W,ALS4 1:5 TOM .01

Quant Time: 950604 13:56

Quant ID File: KVOAID::DB

Injected at: 950604 13:20

Last Calibration: 950604 12:56

Compound No: 41

Compound Name: C220 TETRACHLOROETHYLENE

Scan Number: 391

Retention Time: 19.77 min.

Quant Ion: 164.0

Area: 8068

Concentration: 7.96 UG/L

q-value: 99

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

22113LGAW

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124047

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K7976

Level: (low/med) LOW

Date Received: 05/25/95

% Moisture: not dec.

Date Analyzed: 06/01/95

GC Column: CAP

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CASE NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	32	
75-00-5	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-73-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	24	
840-59-0	1,2-Dichloroethene (total)	14	Y
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	3	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-57-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	8	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	16	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	61	
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	30	Y

1E
VOLATILE ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. -

92113LGAW

Lab Name: CANBOR

Contract: GEI

Lab Code: CANBOR

Case No.: F01422

GAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124047

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K7996

Level: (low/med) LOW

Date Received: 05/25/95

% Moisture: not det.

Date Analyzed: 06/01/95

GC Column: CAP ID: 0.520 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Number TICs Found: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
1. 354824	Mibac, 1,1-dichloro-1,1,2,2-t	5.77	23	UN
2. 74975	Bromochloroethane	11.47	33	UN
3. 100959	Tetrahydrofuran	11.60	26	UN
4.	CH180 isomer	27.09	5	J
5. 95501	Benzene, 1,2-dichloro-	27.72	12	UN

QUANT REPORT

Operator ID: DOUG Quant Rev: 6 Quant Time: 950601 17:07
Output File: ^K7996::K2 Injected at: 950601 16:32
Data File: >K7996::L2 Dilution Factor: 1.00000
Name: 124047,U,,GEI
Misc: CLP,FD1423,,92113-LGAW-0595,L,A,ALS4 5ML JPT .01918

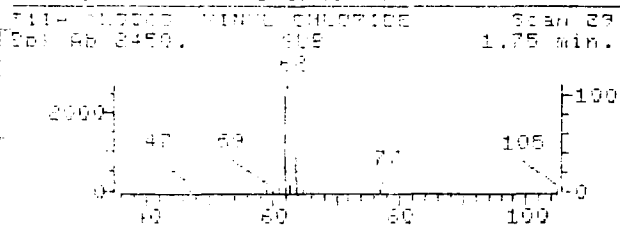
ID File: KVOAID::DB
Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
Last Calibration: 950601 14:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 BROMOCHLOROMETHANE IS-1	11.46	128.0	38260	50.00	UG/L	92
4)	C020 VINYL CHLORIDE	3.90	62.0	8157	31.91	UG/L	93
12)	C050 1,1-DICHLOROETHANE	9.27	63.0	27704	24.25	UG/L	93
17)	C053 TOTAL-1,2-DICHLOROETHENE	10.87	96.0	11080M	13.54	UG/L	82
19)	C065 1,2-DICHLOROETHANE	13.19	62.0	2424	3.31	UG/L	91
20)	CS15 D4-1,2-DICHLOROETHANE SS1	13.01	65.0	34572	50.24	UG/L	87
24)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.24	114.0	164182	50.00	UG/L	100
35)	C165 BENZENE	13.15	78.0	8932	4.96	UG/L	100
38)	*CI20 D5-CHLOROBENZENE IS-3	22.03	117.0	135802	50.00	UG/L	100
39)	C205 4-METHYL-2-PENTANONE	17.88	43.0	3413	7.95	UG/L	91
43)	CS05 D-8 TOLUENE (SS-2)	18.11	98.0	127468	46.33	UG/L	92
44)	C230 TOLUENE	18.29	91.0	42065	16.28	UG/L	99
46)	C240 ETHYL BENZENE	22.44	106.0	62037	61.38	UG/L	97
47)	CS10 BROMOFLUOROBENZENE (SS-3)	25.31	174.0	75644	47.30	UG/L	81
51)	C250 TOTAL XYLENES	22.80	106.0	38752M	30.33	UG/L	92

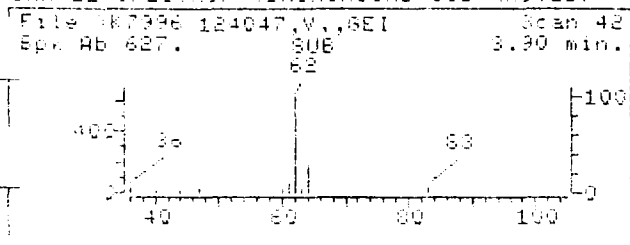
* Compound is ISTD

6-6-95
mm

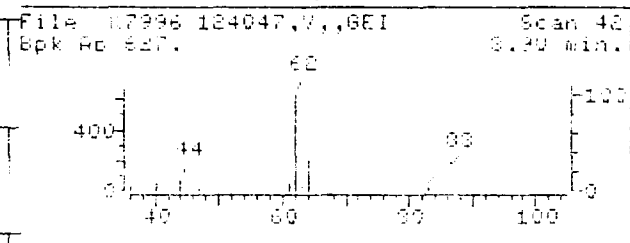
REFERENCE STANDARD SPECTRUM



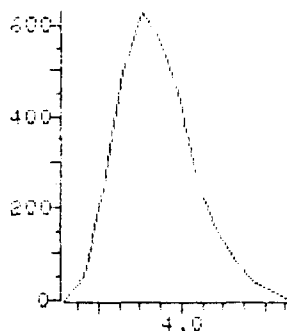
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



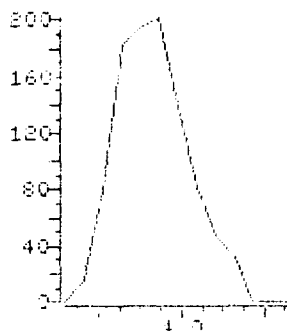
SAMPLE SPECTRUM (UNALTERED)



File: K7996 61.7-62.7 min



File: K7996 63.7-64.7 min



Data File: K7996:112

Quant Output File: K7996:112

Sample: 124047.V, GEI

Method: FID, F01423, 92113-160M-0599, L, A, 0134 SM, DPT, 01914

Quant Time: 950601 14:37

Quant ID File: LUNABD:01

Injected at: 950601 14:32

Last Calibration: 950601 14:54

Compound Name: 4

Compound Name: 0020 VINYL CHLORIDE

Sample Number: 42

Retention Time: 3.90 min.

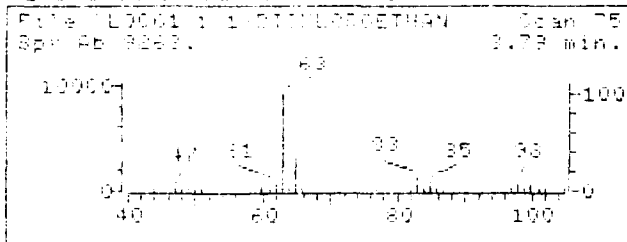
Peak Int: 62.0

Area: 8157

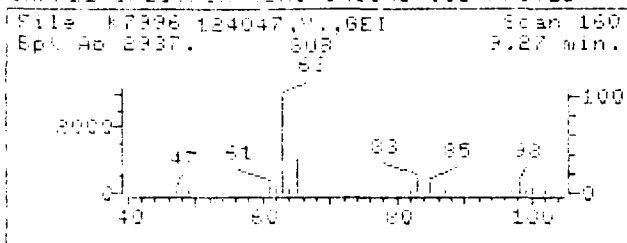
Concentration: 51.91 ug/l

Quality: 93

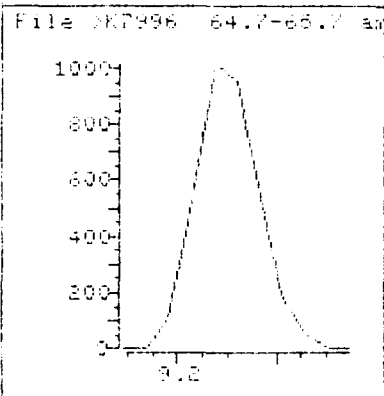
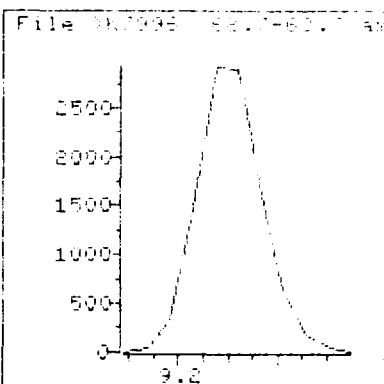
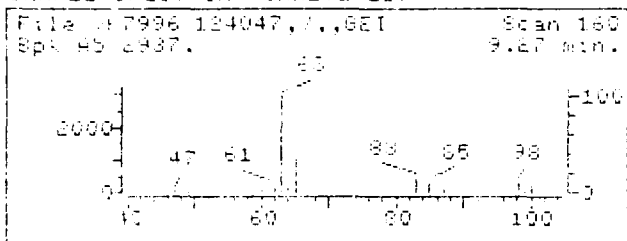
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: K7996::L2

Quant Output File: K7996::F2

Name: 124047.V, GEI

File: CLP, FD1423, 92113-L6HW-0595, L, R, ALS4 5NL JPC 101918

Quant Time: 250501 12:07

Quant ID File: 180418::B8

Injected at: 990501 13:32

Last Calibration: 990601 14:56

Compound ID: 12

Compound Name: C059 1,1-DICHLOROETHANE

Scan Number: 160

Retention Time: 9.27 min.

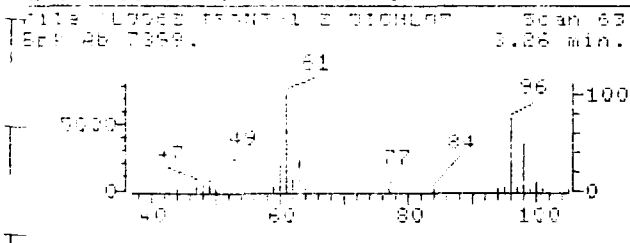
Quant Ion: 63.0

Area: 27704

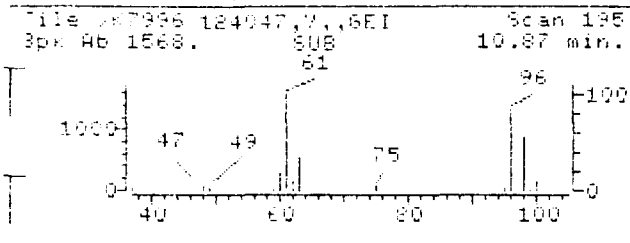
Concentration: 04.25 ug/L

Quality: 25

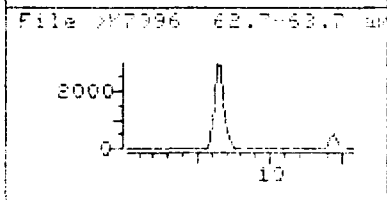
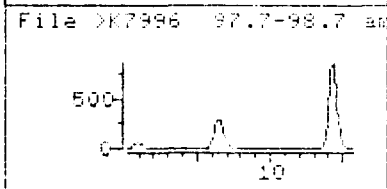
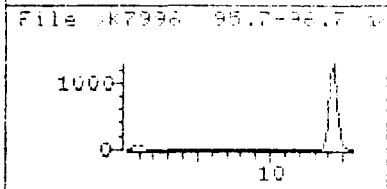
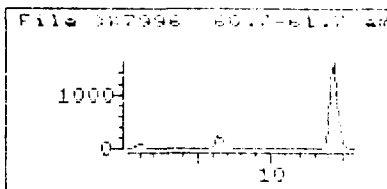
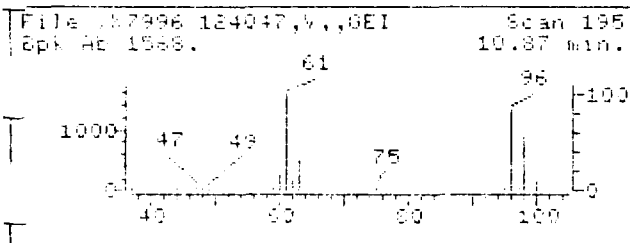
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: K7996:12

Quant Output File: K7996:12

Sample: 124047.7, 6EI

Mass: C₆H₄Cl₂ 122.173-122.173-122.173, 1,2-DICHLOROBENZENE

Sample Time: 950601 12:02

Quant ID File: K7996:12

Injection Vol: 950601 16:32

Last Calibration: 950601 14:10

Compound No: 12

Compound Name: 0053 TOTAL 1,2-DICHLOROBENZENE

Scan Number: 195

Retention Time: 10.87 min.

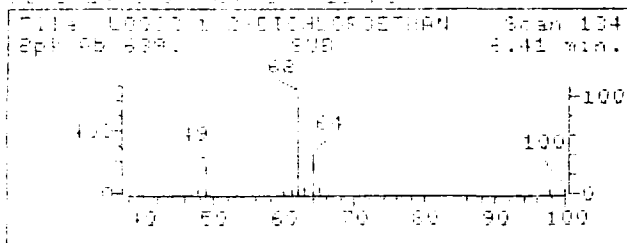
Quant Vol: 95.0

Area: 111.001

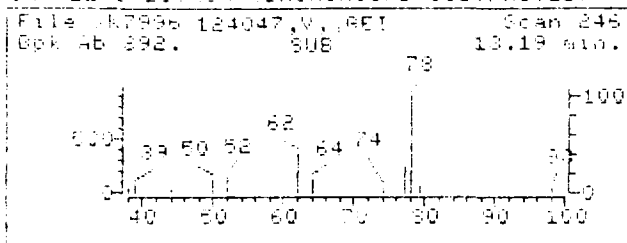
Concentration: 13.54 HC/L

Quality: 32

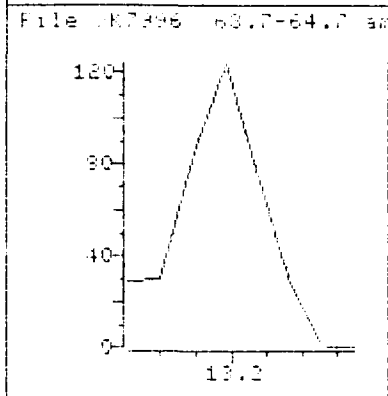
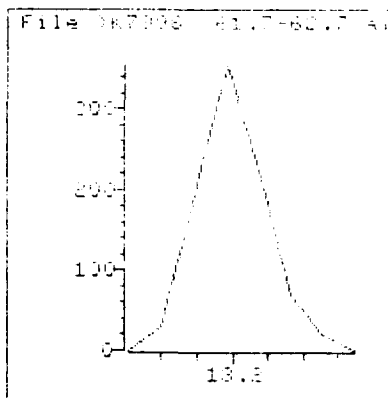
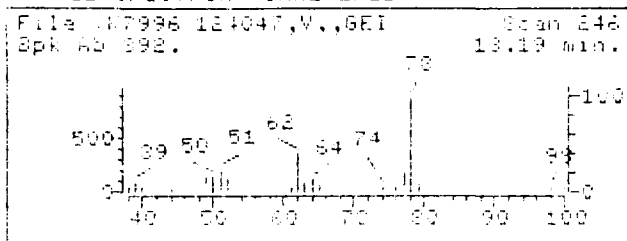
REFERENCE SPECTRUM 18101000



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: JK7996:11

Quant Output File: JK7996:12

Name: 124047.V, .GFI

His: CLP,FD1423,192113-LGAW-9595,L,A,ALS4 SHL JPI 101916

Quant Time: 950601 17:07

Quant ID File: KVG815:105

Injected at: 950601 16:52

Last Calibration: 950601 14:56

Compound No: 19

Compound Name: COAS 1,1-DICHLOROETHANE

Scan Number: 246

Retention Time: 13.19 min.

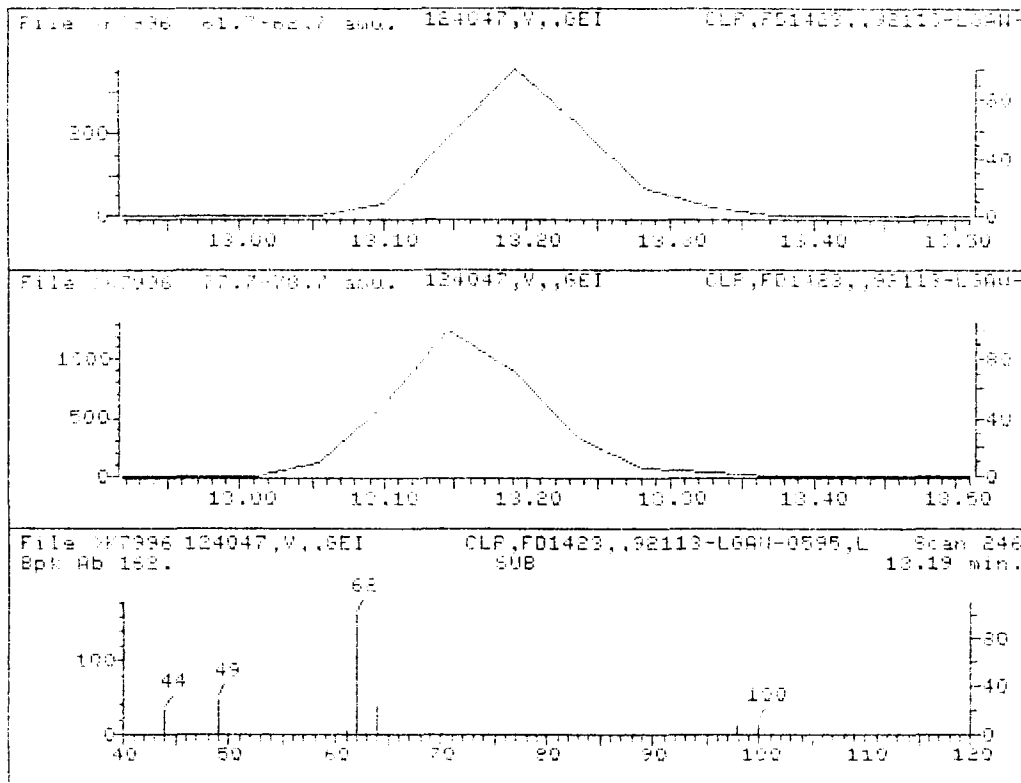
Quant Ion: 62.0

Area: 2424

Concentration: 3.31 US/L

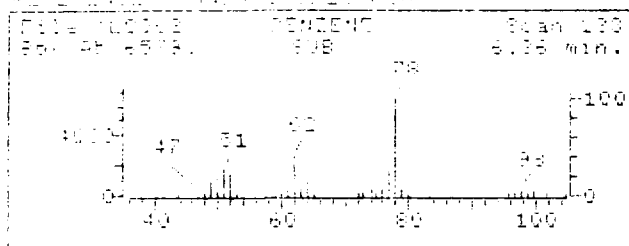
q-value: 91

Clean spectrum →

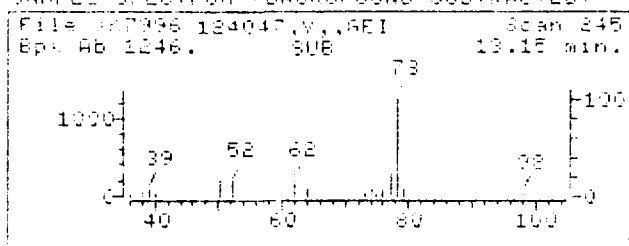


1,2 Dichloroethane

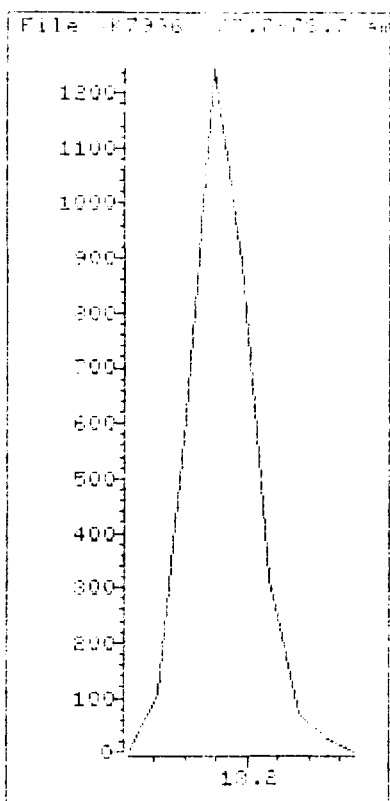
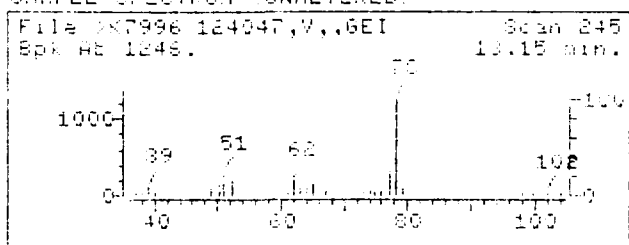
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: 1K7996:1L2

Quant Output File: 1K7996:1K2

Name: 174007,0, .6EI

File: CLP,FB1423,,92113-LGAW-0595,L,H,AL54 5ML JPT 101218

Quant Time: 250601 17:07

Quant ID File: BVDA15:0E

Injected at: 250601 16:52

Last Calibration: 250601 14:56

Compound No: 35

Compound Name: C165 BENZENE

Scan Number: 245

Retention Time: 13.15 min.

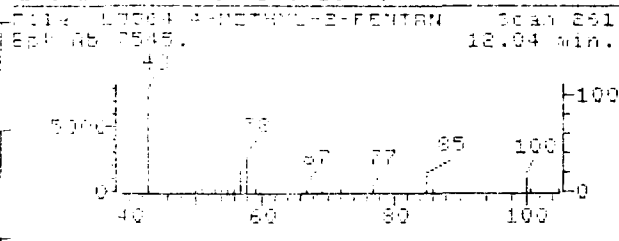
Quant Ion: 78.0

Area: 8931

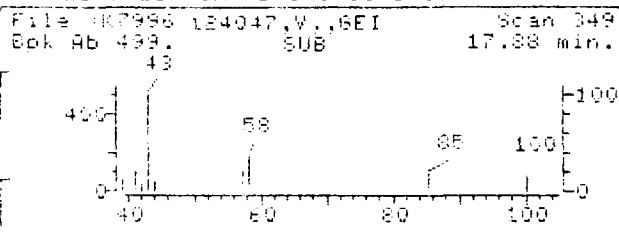
Concentration: 4.16 UG/L

q value: 100

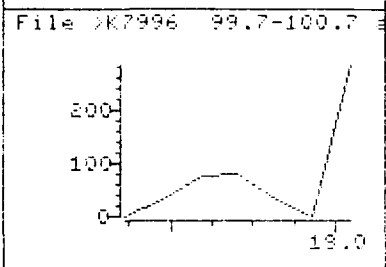
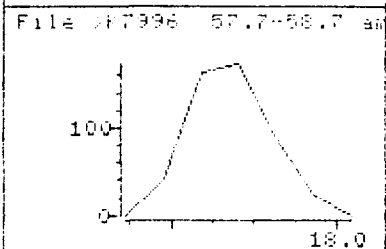
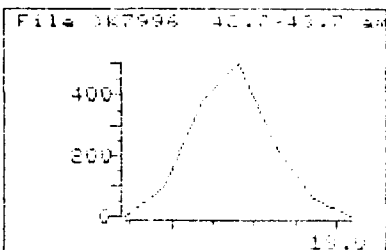
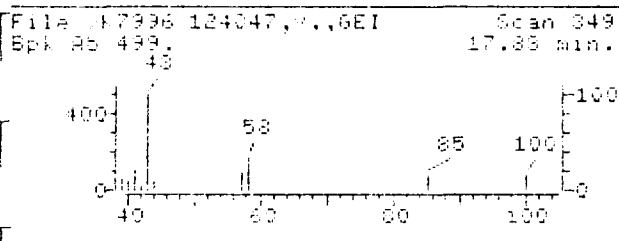
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: BK7996:10

Quant Output File: BK7996:102

Name: 124047.V, 6EI

File: 124047.V, 6EI 124047.V, 6EI 124047.V, 6EI 124047.V, 6EI 124047.V, 6EI

Quant Time: 250.01 12:07

Quant ID File: KUBAID:100

Injected At: 250.01 12:07

Last Calibration: 250.01 12:07

Compound Name: 4-METHYL-2-PENTANONE

Scan Number: 349

Retention Time: 17.88 min.

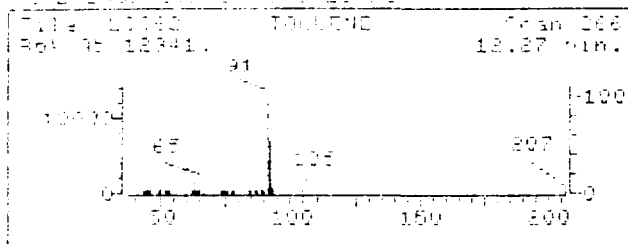
Quant Time: 44.0

Area: 4413

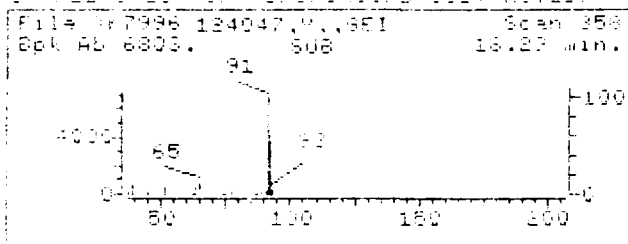
Concentration: 7.95 mg/L

Quant Time: 21

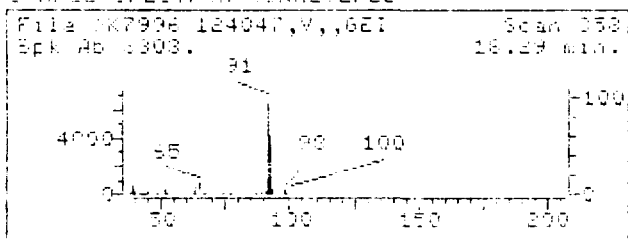
REFERENCE STANDARD SPECTRUM



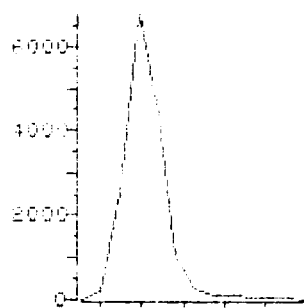
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



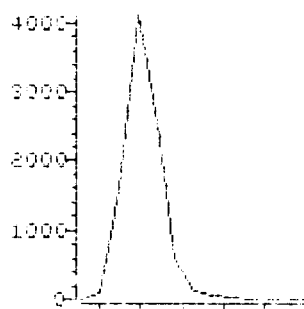
SAMPLE SPECTRUM (UNALTERED)



File: K7996 90.7-91.7 min



File: K7996 91.7-92.7 min



Data File: K7996::L2

Quant Output File: K7996::K7

Name: 124047.V, 6EI

Misc: CLP, FE1423., 91113-LOGU-0595, L, A, ALS4 5ML JPT 101913

Quant Date: 950601 17:37

Quant ID File: K900ID::5C

Injected at: 950601 16:52

Last Calibration: 950601 14:56

Compound Name: 5A

Compound Name: C230 TOLUENE

Scan Number: 353

Retention Time: 13.27 min.

Quant Ion: 91.0

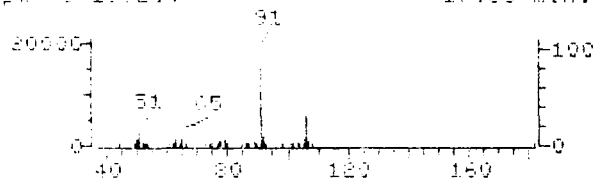
Area: 42035

Concentration: 13.22 UG/L

q-value: 99

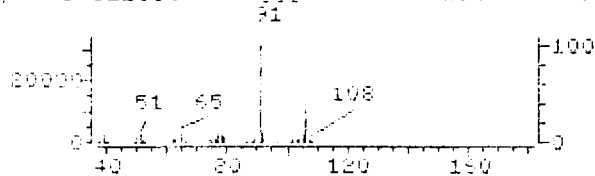
REFERENCE STANDARD SPECTRUM

File: 124047.D ETHYL BENZENE Scan 388
Sp# AB 31288. 17.68 min.



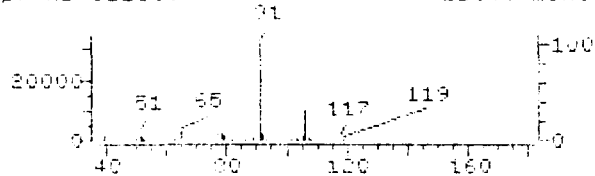
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File: MK7996 124047.V, 6EI Scan 449
Sp# AB 31288. 22.44 min.

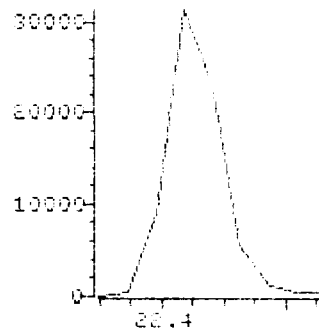


SAMPLE SPECTRUM (UNALTERED)

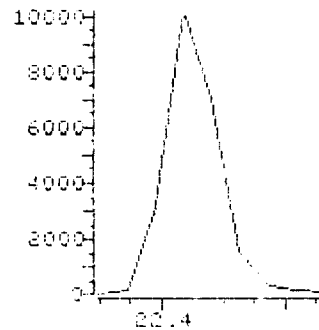
File: MK7996 124047.V, 6EI Scan 449
Sp# AB 31288. 22.44 min.



File: MK7996 105.7-106.7



File: MK7996 105.7-106.7



Data File: MK7996:12

Quant Output File: MK7996:12

Name: 124047.V, 6EI

Alias: C18, F01423, 92113-164W-0595, 1, A, A1S4 5M, JET 101918

Inject Time: 950601 17:07

Quant ID File: KUCRID:08

Injected at: 950601 17:32

Last Calibration: 950601 14:56

Compound Ref: 4a

Compound Name: C240 ETHYL BENZENE

Scan Number: 449

Retention Time: 22.44 min

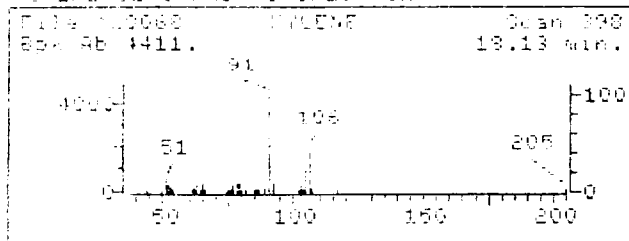
Quant Unit: 106.0

Ref# 124037

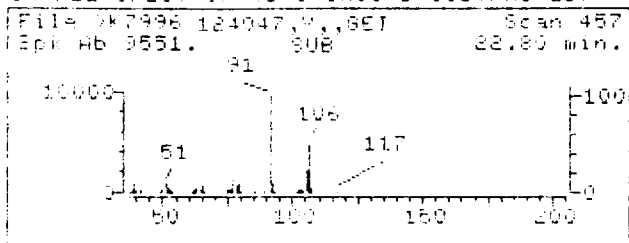
Concentration: 51.38 ug/L

Quant Unit: 7.7

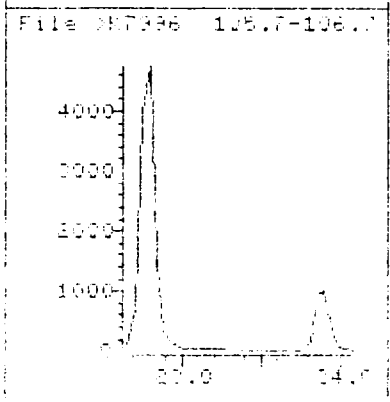
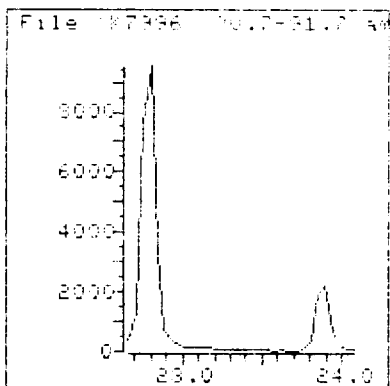
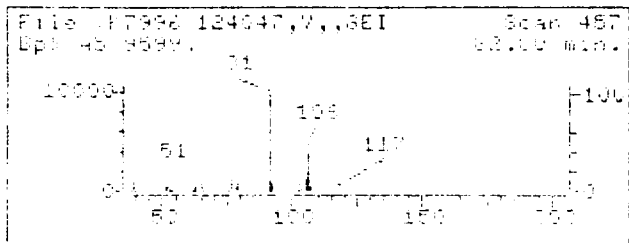
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: 127996:111

Quant Output File: 127996:K2

Name: 127996.V, .SEI

Mass: 017, 021423, 92113-104W-0545, L, A, 0154 SML 3PF 101910

Quant Time: 950601 17:07

Quant ID File: 120015:01

Injected Ab: 950611 10:32

Last Calibration: 950601 14:30

Compound Ab: 51

Compound Name: C250 TOTAL XYLENES

Scan Number: 457

Retention Time: 22.80 min.

Quant Ion: 106.0

Area: 107520

Concentration: 50.53 US/L

q-value: 22

MS data file header from : >K7996

Sample: 124047,V,,GEI Operator: DOUG SUPER GRP. 6/01/95 16:32
Misc : CLP,FD1423,,92113-LGAW-0595,L,A,ALS4 SML JPT .01918
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS #: 0
Method file: KVOA Tuning file: MTUNEK No. of extra records: 2
Source temp.: 0 Analyzer temp.: 220 Transfer line temp.: 0

Chromatographic temperatures : 37. 150. 150. 0. 0.
Chromatographic times, min. : 7.0 4.0 3.0 0.0 0.0
Chromatographic rate, deg/min: 5.0 5.0 0.0 .2 0.0

>K7996 124047,V,,GEI CLP,FD1423,,92113-LGAW-0595,L,A,ALS4 SML

35.01 300.0 CLP TIC

Upslope: .20 Area Reject: 22554. Max Peaks: 6 Bunching: 1
Dnslope: 0.00 Results File IK7996 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	2.81	15	18	20	10893	75329	74632	72.38	18.865
2	2.99	20	22	28	6082	56011	52339	50.76	13.230
3✓	5.77	79	83	96	9374	105246	103108	100.00	26.062
4	10.87	192	195	200	5208	41813	40305	39.09	10.188
5✓	27.08	548	551	560	4888	36770	35262	34.20	8.913
6✓	29.72	606	609	621	13674	91612	89973	87.26	22.742

Sum of corrected areas: 395619.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	225536.	11.46	2.03 - 12.85
2	50.0	337839.	14.24	12.85 - 18.13
3	50.0	360236.	22.03	18.13 - 35.05

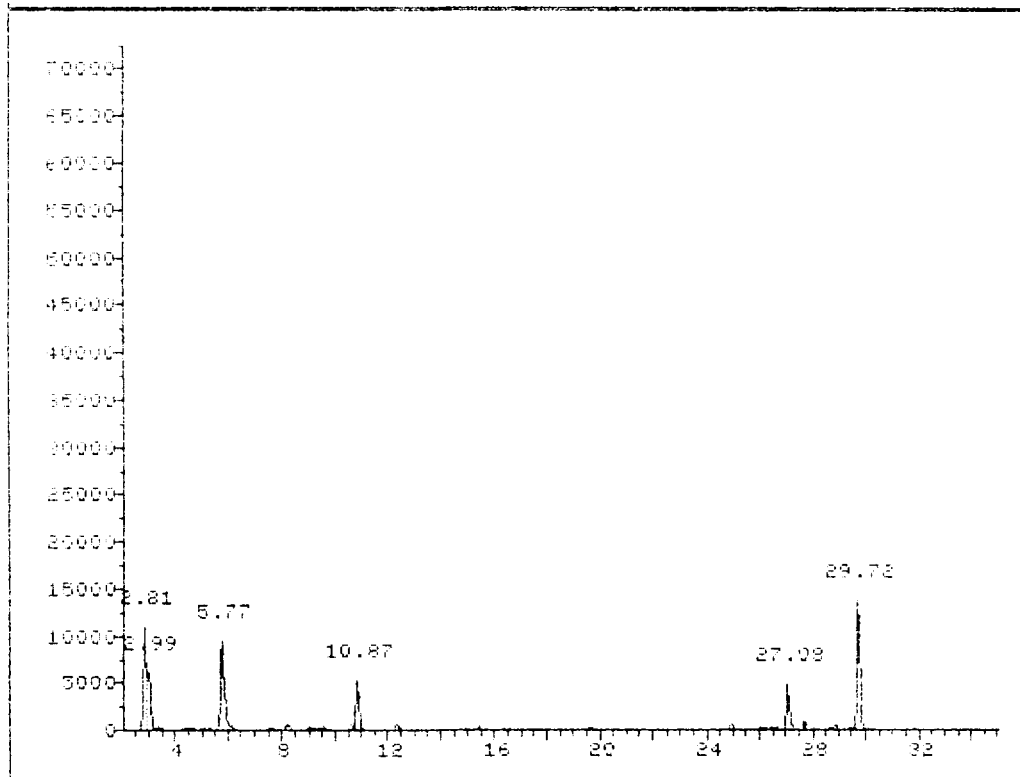
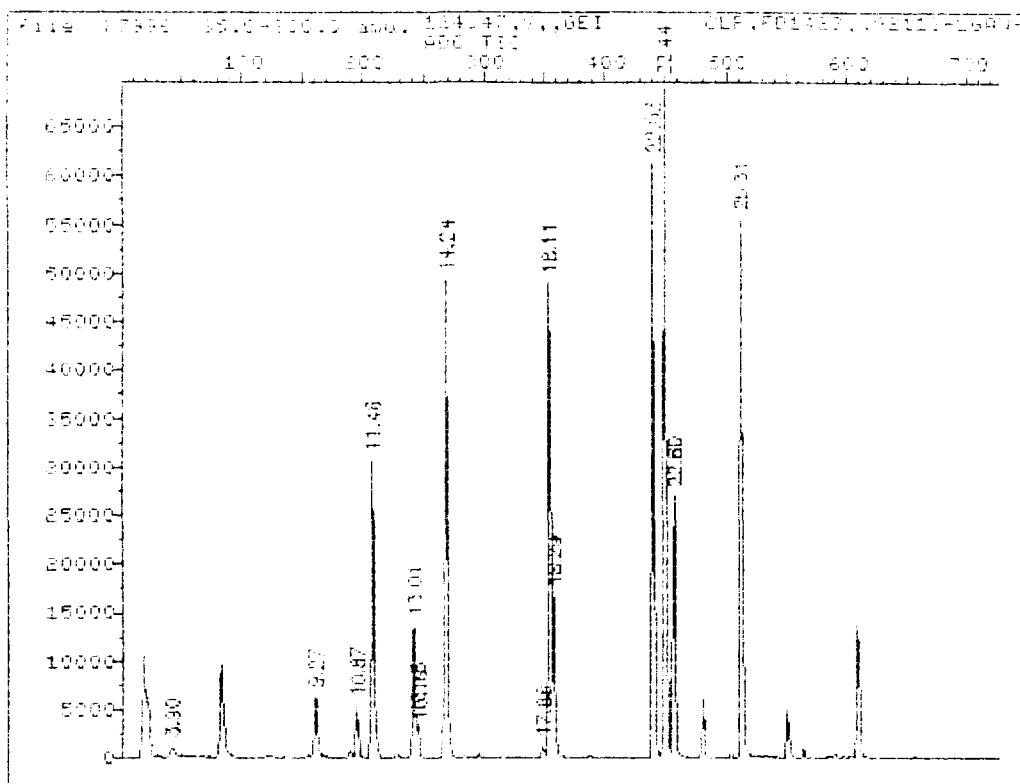
Dilution Factor = 1.00 U dilf = 1.00
Method called for 1000.000 g or mL This sample was 1000.000 g or mL

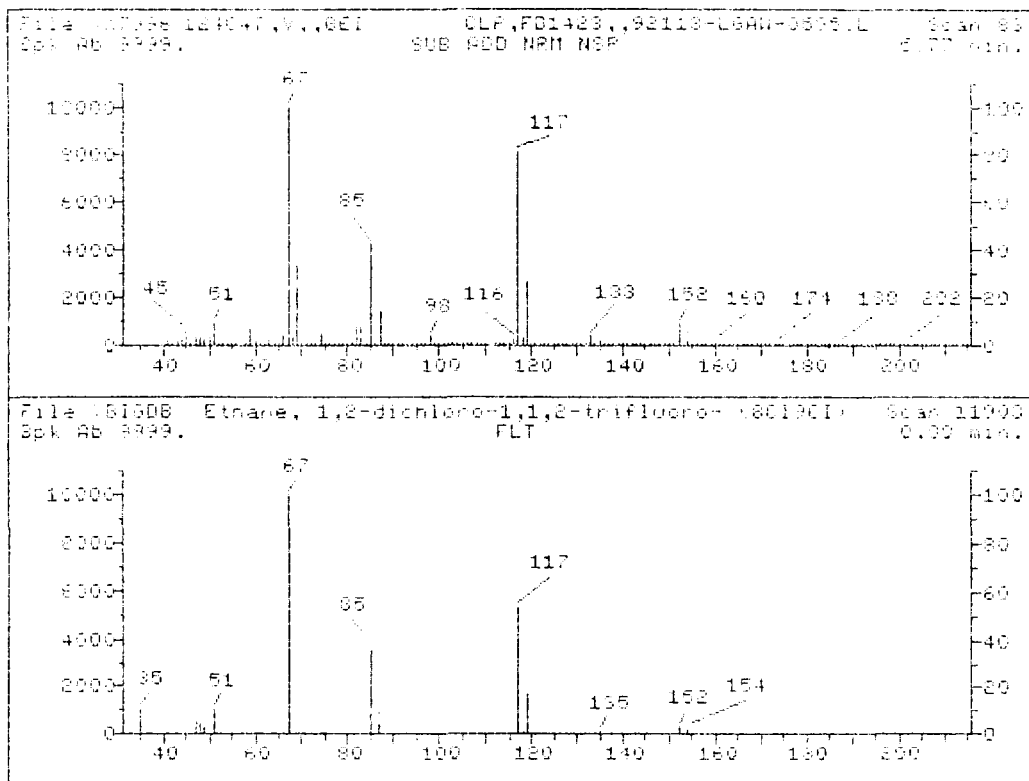
Correction Factor = 1.00

Unknown Concentration = $\frac{\text{Conc Int Std}}{\text{Area Int Std}} \times \text{Area Unknown} \times \text{Correction Factor}$

11:42 AM TUE., 6 JUNE, 1995

30082





UNKNOWN #,3
AREA = 103108.0 TENTATIVE CONCENTRATION IS 23.00

1. Ethane, 1,2-dichloro-1,1,2-trifluoro- (8CI9CI) 152 C2HC12F3

Sample file: >K7996 Spectrum #: 83
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IV
1.	52*	354234	11903	"BIGDB	41	68	0	0	69	39	19 43

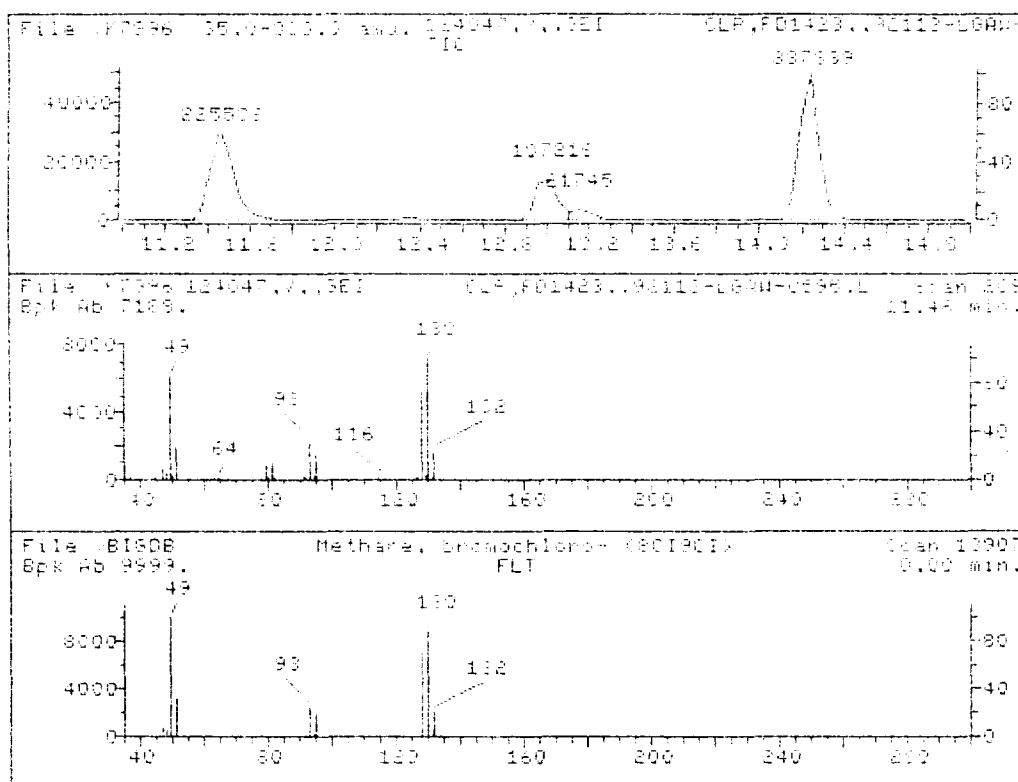
1. Methane, bromochloro- (801301)

103 0-18-71

Sample file: 0F7896 Spectrum #: 208
Search speed: 1 Tilting Option: H No. of ion ranges searched: 41

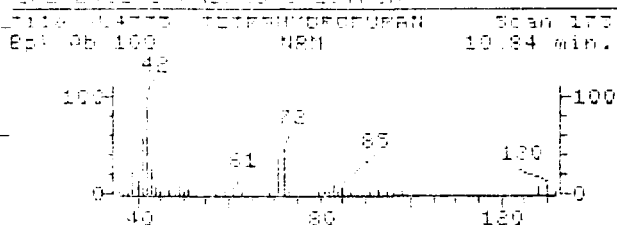
Prob.	QAB #	QCN #	ROOT	H	OK	#PLG	TILT	%	QCN	Q_I	R_IY
1.	97*	74975	13907	161608	105	7	3	0	21	0	70 97

$$\text{CONC} = \frac{225536}{337839} \times \frac{50}{1} = 33.4 \text{ ug/L}$$

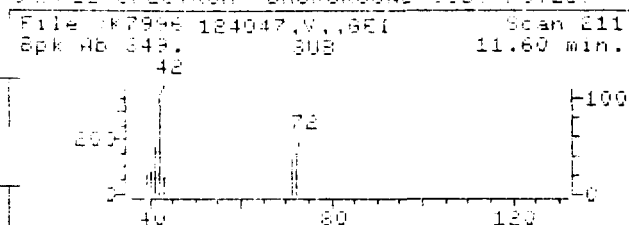


30085

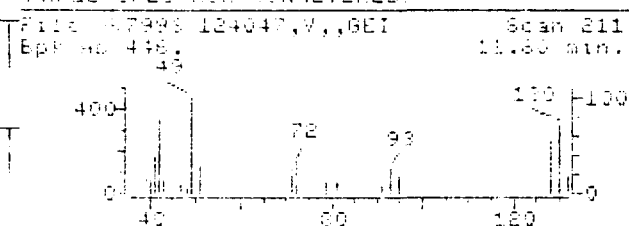
REFERENCE STANDARD SPECTRUM



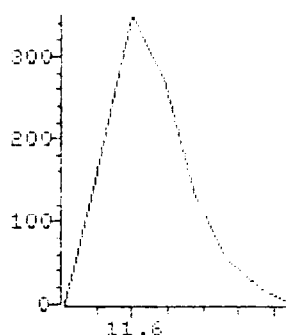
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



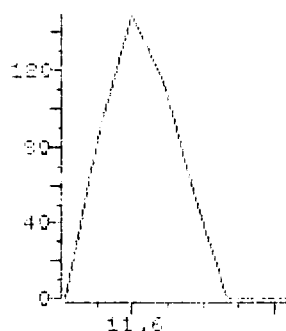
SAMPLE SPECTRUM (UNALTERED)



File: 127998 11.5-12.7 min



File: 127998 11.5-12.7 min



Data File: 127998:117

Quant Output File: 127998:117

Owner: J. A. J. J. J. J.

File: 127998:117, 124047.V., GEL Scan 211

Acq. Time: 12:00:00 12:00

Quant ID File: 127998:117

Injected at: 12:00:00 12:00

Last Calibration: 12:00:00 12:00

Compound No: 127

Compound Name: 1279 TETRAHYDROFURAN

Scan Number: 211

Retention Time: 11.60 min.

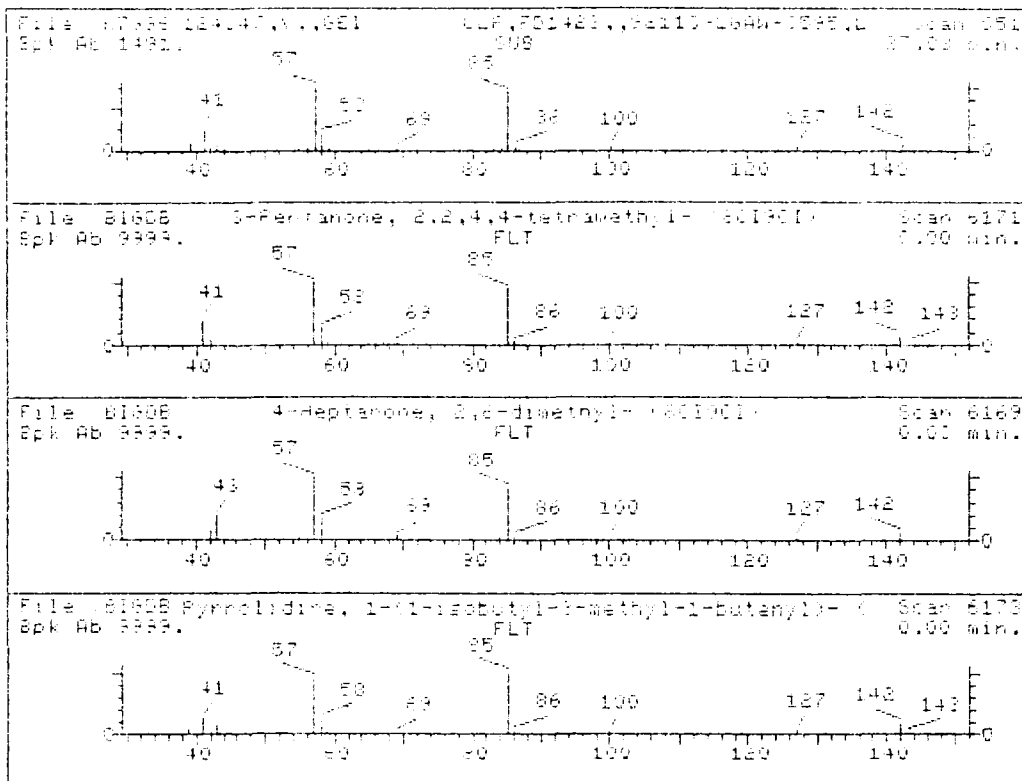
Mass Ion: 42.0

Area: 2200

Concentration: 35.68 NG/L

Quality: 94

AM

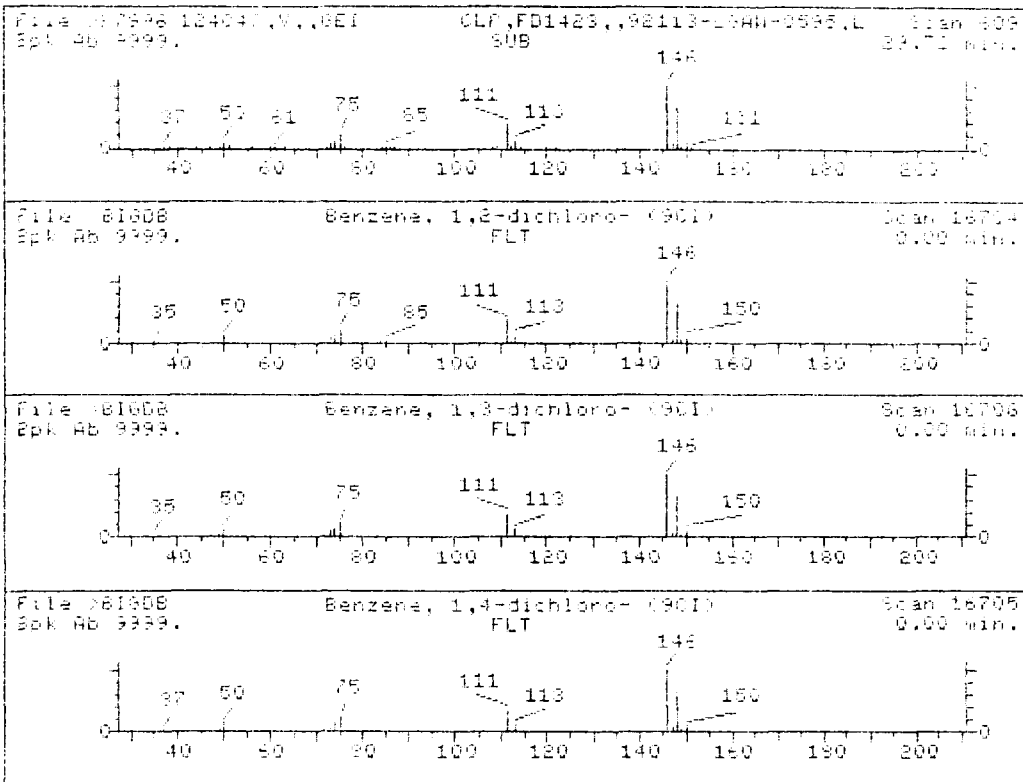


UNKNOWN #,5
AREA = 35262.00 TENTATIVE CONCENTRATION IS 5.00

- | | | |
|---|-------------|----------|
| 1. 3-Pentanone, 2,2,4,4-tetramethyl- (8CI9CI) | 142 C9H180 | } 150102 |
| 2. 4-Heptanone, 2,6-dimethyl- (8CI9CI) | 142 C9H180 | |
| 3. Pyrrolidine, 1-(1-isobutyl-3-methyl-1-butenyl)- (8CI | 195 C13H25N | |
| 4. 4-Octanone, 2-methyl- (8CI9CI) | 142 C9H180 | |
| 5. 1H-Tetrazol-5-amine (9CI) | 85 CH3N5 | |

Sample file: >K7996 Spectrum #: 551
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	87*	815247	6171	"BIGDB	64	29	2	0	87	2	63	49
2.	83*	108838	6169	"BIGDB	48	51	2	0	74	2	57	22
3.	83	3494040	6173	"BIGDB	75	20	2	0	80	2	57	27
4.	60*	7492388	6174	"BIGDB	40	52	3	0	100	11	30	14
5.	52*	4418615	5	"BIGDB	21	104	2	0	100	19	20	13



✓ by P.T.

UNKNOWN #,6
AREA = 89973.00 TENTATIVE CONCENTRATION IS 12.00

- | | |
|--|---------------|
| 1. Benzene, 1,2-dichloro- (9CI) | 146 C6H4Cl2 |
| 2. Benzene, 1,3-dichloro- (9CI) | 146 C6H4Cl2 |
| 3. Benzene, 1,4-dichloro- (9CI) | 146 C6H4Cl2 |
| 4. 2-Thiophenecarboxaldehyde, 5-chloro- (8CI9CI) | 146 C5H3ClO2S |
| 5. Propane, 2-bromo-1,2-dichloro- (8CI) | 190 C3H5BrCl2 |

Sample file: >K7996 Spectrum #: 609
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	97*	95501	16704	"BIGDB	101	10	0	0	81	2	72	97
2.	96*	541731	16706	"BIGDB	89	19	0	0	79	2	72	96
3.	94*	106467	16705	"BIGDB	84	24	0	0	72	11	64	95
4.	20*	7283967	16703	"BIGDB	26	78	2	0	117	52	5	14
5.	11*	17759885	11200	"BIGDB	25	74	3	0	38	64	2	13

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. —

92113LGSW

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124048

Sample wt/vol: 0.0 (g/mL) ML

Lab File ID: K7999

Level: (low/med) LOW

Date Received: 05/25/95

% Moisture: not dec.

Date Analyzed: 06/01/95

GC Column: CAP 10. 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume (uL)

Soil Aliquot Volume: (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L g

74-87-3	Chloromethane	10	U
74-83-2	Bromomethane	10	U
75-01-4	Vinyl Chloride	7	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethane	10	U
75-34-3	1,1-Dichloroethane	2	U
540-69-0	1,2-Dichloroethane (total)	4	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	2	U
78-93-2	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
55-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	12	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

92113LGSW

Lab Name: CAMBRO

Contract: GEI

Lab Code: CAMBRO

Case No.: FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124048

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K7999

Level: (low/med) LOW

Date Received: 05/25/95

% Moisture: not dec.

Date Analyzed: 06/01/95

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

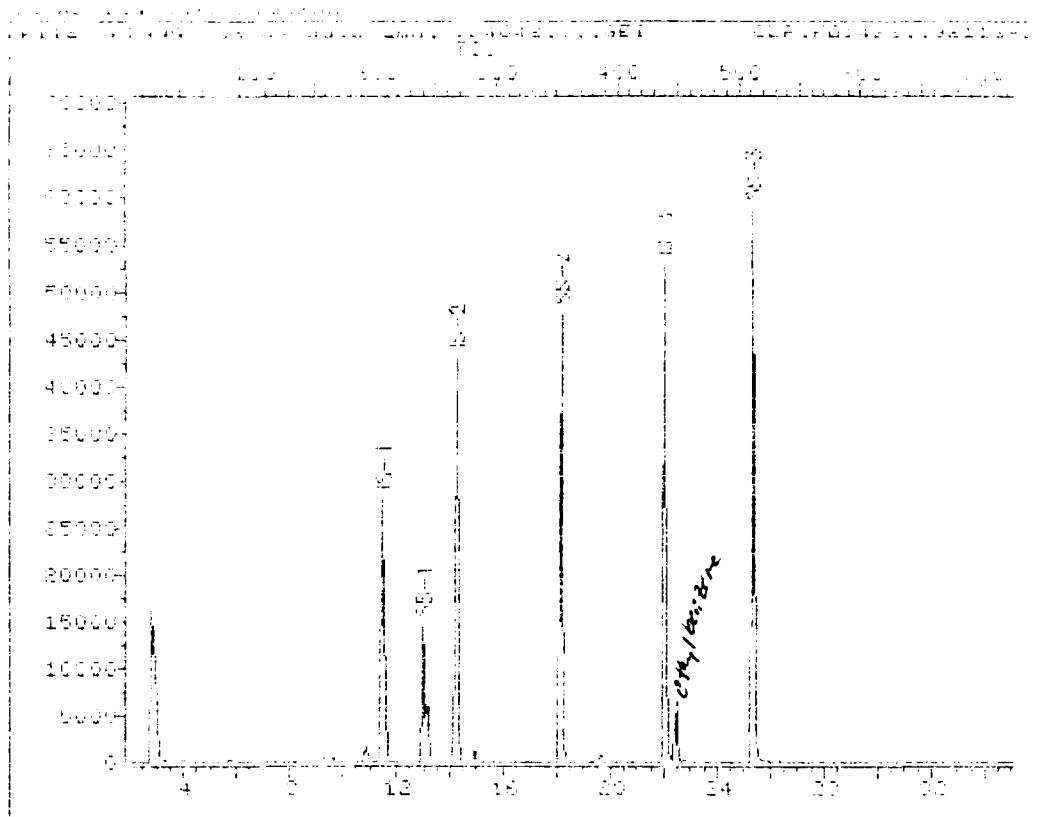
Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Number TICs found: 0

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



Run File: 17202111 Quant Result File: 17202111
 Name: 17202111
 File: 17202111 17202111 17202111 17202111 17202111 17202111 17202111 17202111 17202111 17202111

File: 17202111 17202111 17202111 17202111 17202111 17202111 17202111 17202111 17202111 17202111
 File: 17202111 17202111 17202111 17202111 17202111 17202111 17202111 17202111 17202111 17202111

Operator: 10: 0000
 Quant Time: 200001 13:00
 Reported at: 250001 13:00

005HT.F000001

Operator: J. A. BOHLE

Quant Rept: 6

Quant File: 1

950601 14:56

Sample File: 1877999182

Injection File:

950601 14:56

Sample File: 1877999182

Dilution Factor:

1.0000

Area: 175048, U, 1.00

Area: 175048, U, 1.00

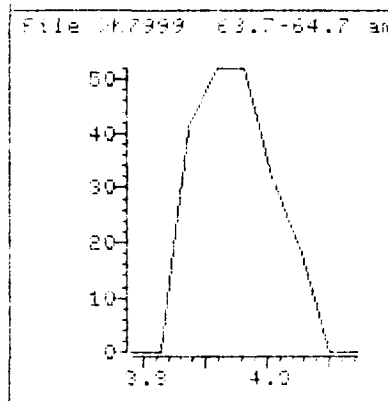
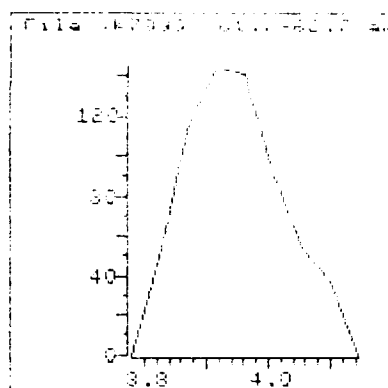
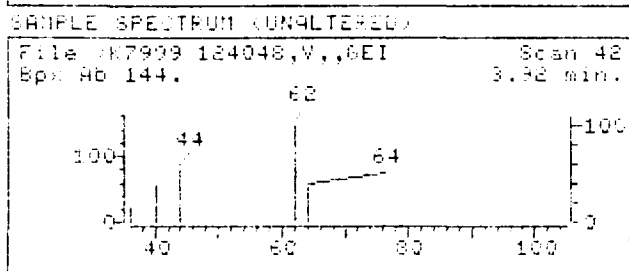
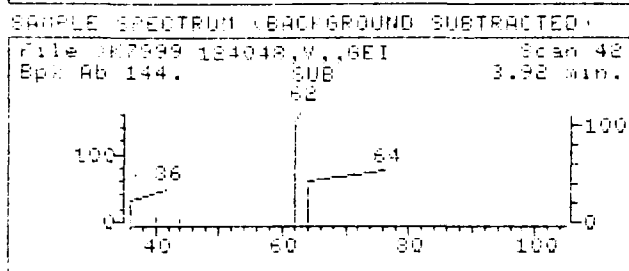
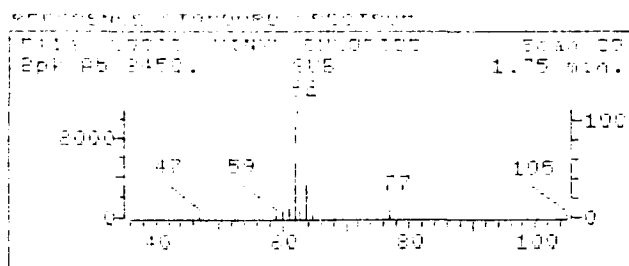
Area: 175048, U, 1.00

Area: 175048, U, 1.00

Area: 175048, U, 1.00

	Compound	R.T.	Q	Area	Conc	Units	q
41	*C101 BROMOCHLOROETHANE IS-1	11.48	128.0	38418	50.00	UG/L	95
21	C090 VINYL CHLORIDE	3.92	62.0	1741	6.78	UG/L	98
21	C090 1,1-DICHLOROETHANE	9.29	63.0	2830	2.47	UG/L	97
21	C093 TOTAL-1,2-DICHLOROETHENE	10.84	96.0	3172	3.86	UG/L	71
21	C065 1,2-DICHLOROETHANE	13.21	62.0	1749	2.38	UG/L	98
01	C015 04-1,2-DICHLOROETHANE SS1	12.98	65.0	34572	50.00	UG/L	91
21	*C110 1,4-DIFLUOROBENZENE IS-2	14.21	114.0	156866	50.00	UG/L	100
21	C150 TRICHLOROETHENE	14.89	130.0	1800	1.48	UG/L	33
51	C165 BENZENE	15.16	78.0	21084	12.25	UG/L	100
01	*C120 D5-CHLOROBENZENE IS-3	22.00	117.0	125090	50.00	UG/L	100
21	C005 D-8 TOLUENE (SS-2)	18.13	98.0	118336	46.69	UG/L	83
51	C240 ETHYL BENZENE	22.45	106.0	5609	6.03	UG/L	98
21	C010 BROMOFLUOROBENZENE (SS-3)	25.30	174.0	69953	46.81	UG/L	99

Compound 14: 1811



Data File: 067999:110

Quant Output File: 067999:110

Name: 124048.V, 6EI

Mass: 01P, 5D1423, 90113-133W-0595.L, 0, AL67 9PB, 3PT 01218

Quant Time: 250601 19:05

Quant ID File: KVR01P:00

Injected at: 250601 18:29

Last Calibration: 250601 14:16

Compound No: 4

Compound Name: 1020 VINYL CHLORIDE

Scan Number: 42

Retention Time: 3.92 min.

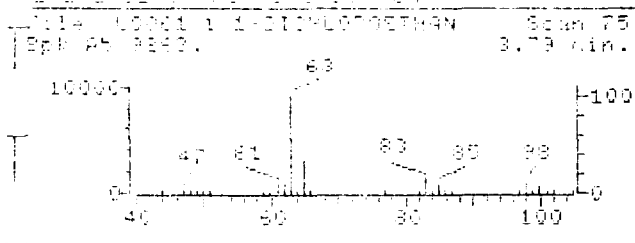
Quant Int: 67.0

Quant: 1761

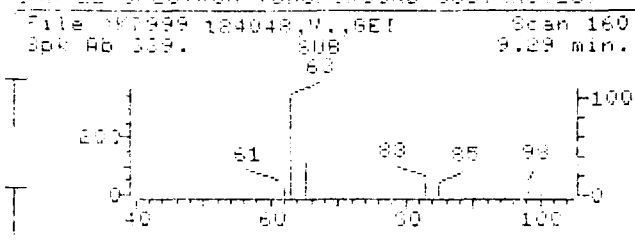
Concentration: 6.78 ug/l

Quality: 98

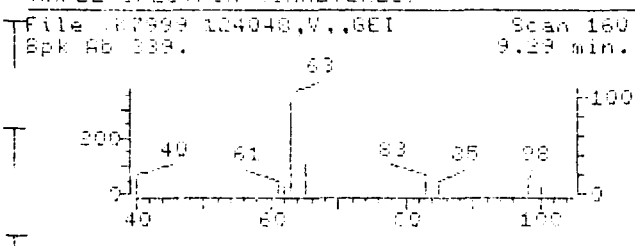
REFERENCE (UNCHANGED) SPECTRUM



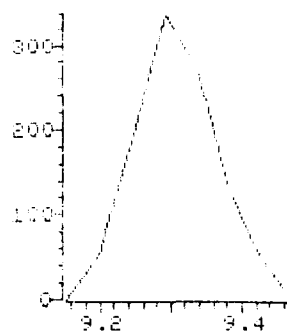
SAMPLE SPECTRUM (BAC) GROUND SUBTRACTED



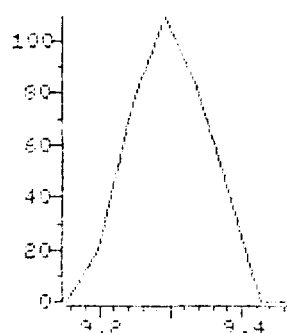
SAMPLE SPECTRUM (UNALTERED)



File: 1K7999 84.7--85.7 min.



File: 1K7999 84.7--85.7 min.



Data File: 1K7999:112

Quant Output File: 1K7999:112

Name: 124048.V.,.6EI

Disc: CLP,F01423,52113-1650-0595,L,A,ALST 5HL JPT 101913

Quant Time: 950601 19:05

Quant ID File: K00010:100

Injected at: 950601 18:29

Last Calibration: 950601 14:56

Compound No: 12

Compound Name: C050 1,1-DICHLOROETHANE

Scan Number: 160

Retention Time: 9.29 min.

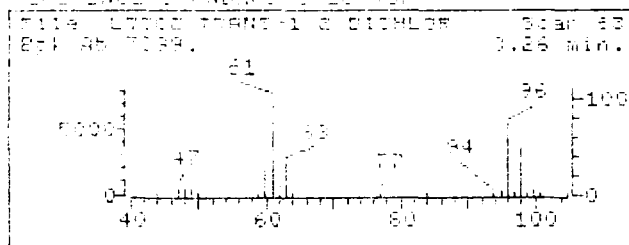
Quant Ion: 63.0

Area: 2038

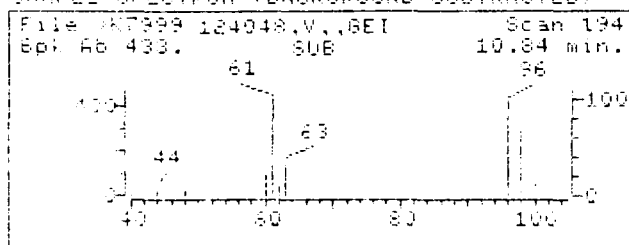
Concentration: 2.47 UG/L

Quality: 97

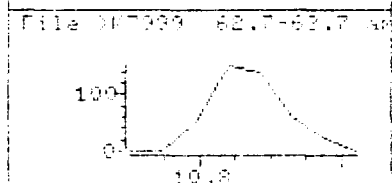
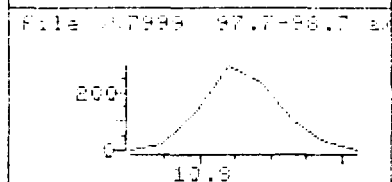
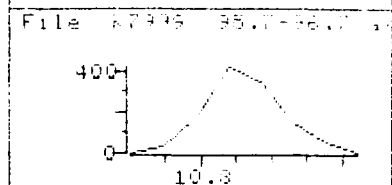
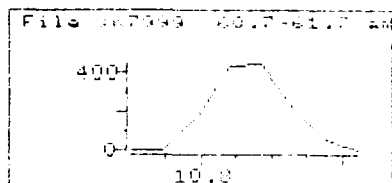
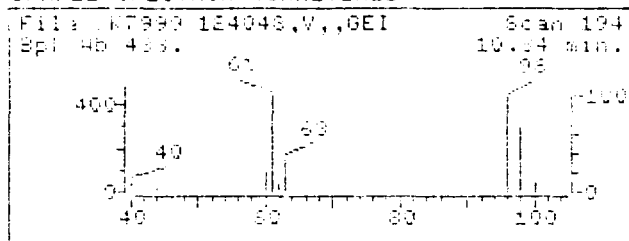
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: K799911.D

Sample Name: 1,2-DICHLOROBENZENE

Raw: 124048.V., GEI

Mass: 112, 8014721, 92111-DICHLOROBENZENE-05-01, 6, 8187 9MR 101918

Scan File: 950601 13:05

Scan ID File: 100010:00

Injection: 40: 950601 13:05

Last Calibration: 950601 13:05

Channel: 12

Compound Name: 1,2-DICHLOROBENZENE

Scan Number: 194

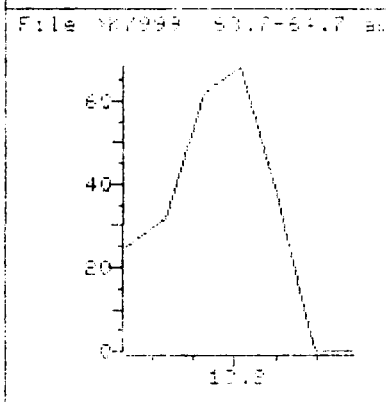
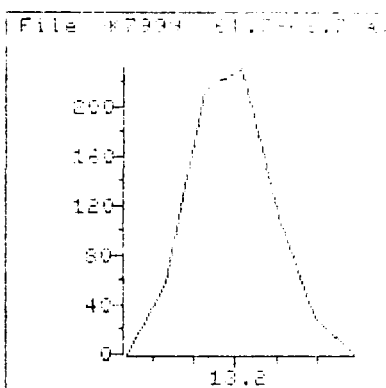
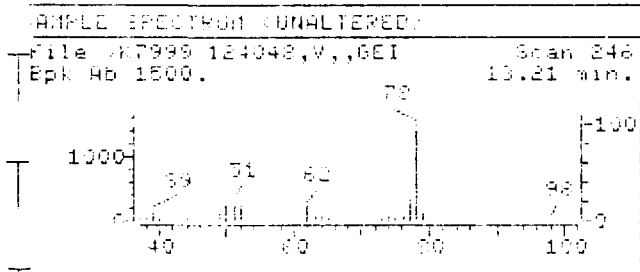
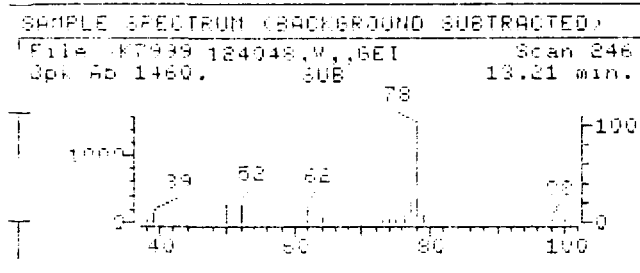
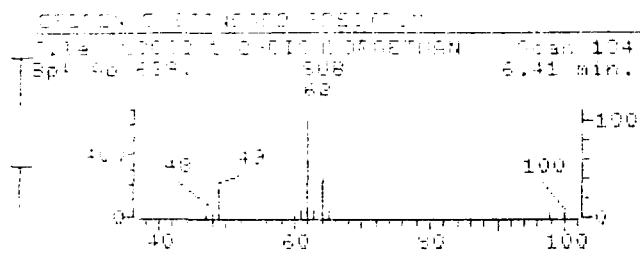
Detection Time: 10.84 min.

Scan Time: 10.8

Area: 1122

Concentration: 3.8% BEI

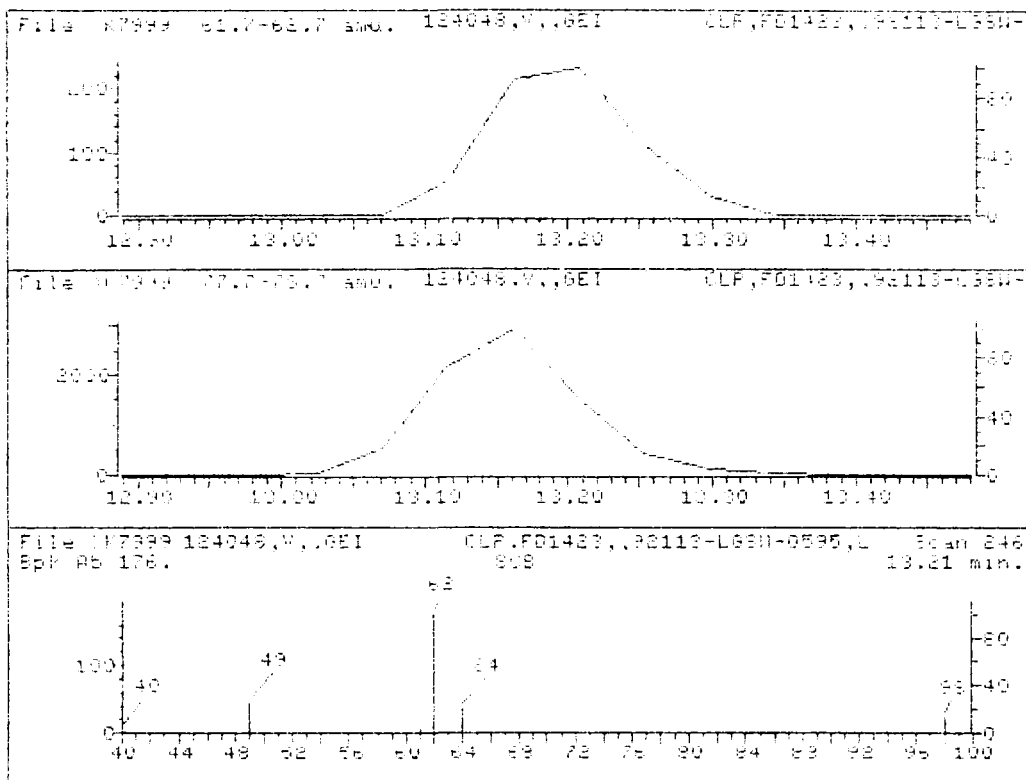
Quality: 71



Data File: K7999:K2 Quant Output File: K7999:K2
 Name: 173-12,1,GEI
 HPLC: CL2,FD1423,,92113-LGS4-0595,L,A,ALS7 FID 38F .01218
 Quant Time: 950601 19:00 Quant ID File: KUCAID:*05
 Injected at: 950601 19:29 Last Calibration: 950601 14:56

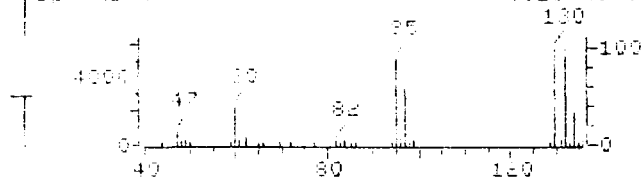
Compound No: 17
 Compound Name: C065 1,2-DICHLOROETHANE
 Scan Number: 246
 Retention Time: 13.21 min.
 Quant Ion: 62.0
 Area: 1742
 Concentration: 2.38 UG/L
 Quality: 99

Cleaned spectra



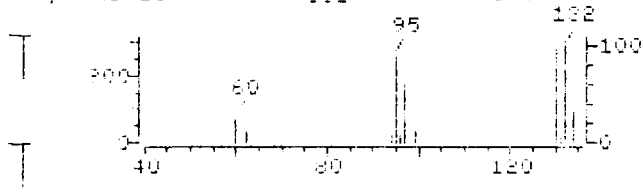
1.2ae

FILE: 45117 TITULOFOOTUNE 0.24 174
BP: 95 5777. 9.18 min.



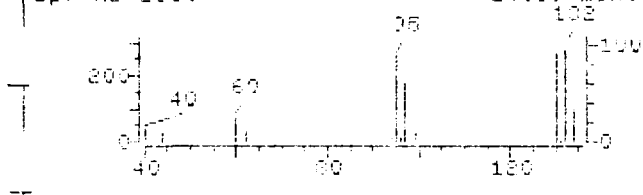
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >K7999 124048.V.,.6EI Scan 283
Bpk Ab 288. 306 14.39 min.

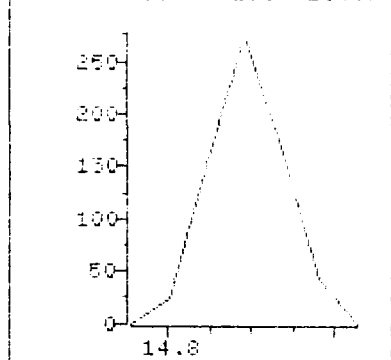


SAMPLE SPECTRUM (UNFILTERED)

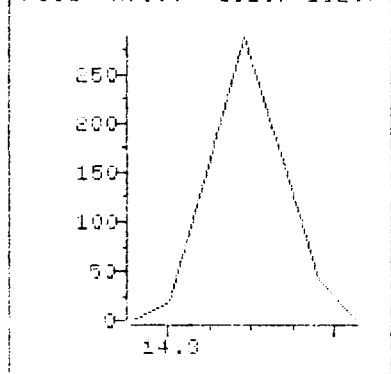
File: BK7999 124048,V,,GEI Scan: 283
Bp: 96 288. 14.89 min.



File 100-36189-1300



File # 47999 131.7-132.7



D.L.A. File # 1K7999-012

Internet Database Files: 11/19/00:102

4. *Journal of Management Studies*, 1991, 28(1), 105-117.

111-111-015, FD-342a, 20117-1014-0515, 1, 3, 0152 SIB JFV 61912

Author: P. LANGE: 26.1.1951 19:00.

Submitted: 16 February 2004; Accepted: 10 July 2004

For treatment and diagnosis, please see

First, the β parameter is $\beta = 0.1$. Let's

Correspondence: Dr. J. A. J. H. van't Hof-Grootenboer, Department of Internal Medicine, University Hospital Groningen, P.O. Box 30.001, 3000 RB Groningen, The Netherlands. Tel.: +31 (0) 931 206111; Fax: +31 (0) 931 206112; E-mail: j.a.j.h.van't.hof-grootenboer@azg.azg.azg.nl

continued from p. 110

Source: *Walden*, 281.

Retention Time: 14.89 min.

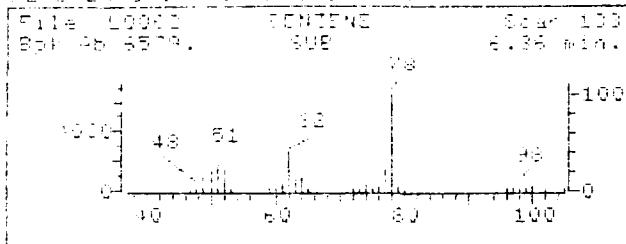
GENERAL INFORMATION

April 1990

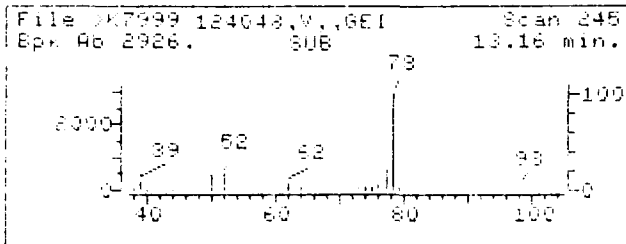
Concentration 1.33 M/L

$$E_{\text{eff}} = E_0 \left(1 - \frac{\alpha}{2} \right) \quad (9)$$

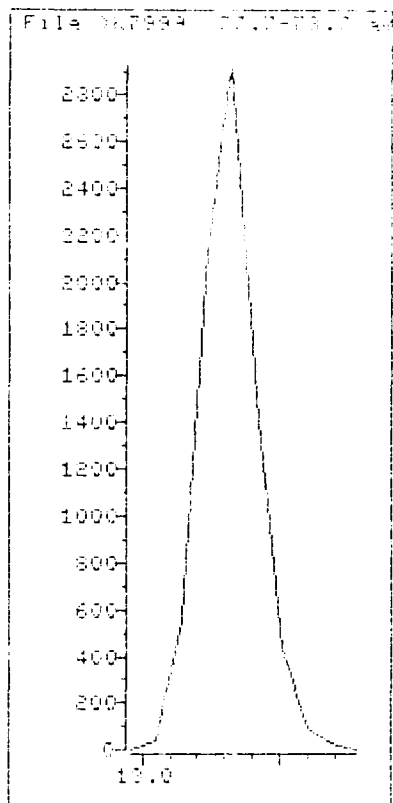
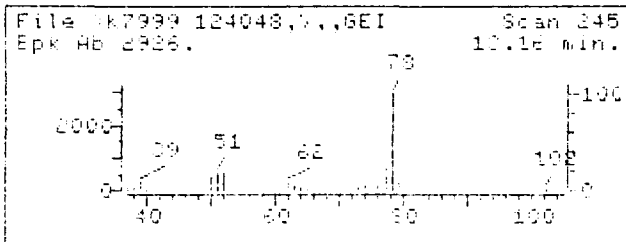
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: BK7999::L2

Quant Output File: BK7999::L2

Name: 124048.V.,.GEI

Misc: CLP,FD1423,,92113-LG94-3595,L,A,ALS7 5ML JPF 1.01918

Quant Time: 950601 12:05

Quant ID File: B09A10::GB

Injected at: 950601 18:22

Last Calibration: 910601 14:54

Compound No: 35

Compound Name: C165 BENZENE

Scan Number: 245

Retention Time: 13.16 min.

Quant Ion: 78.0

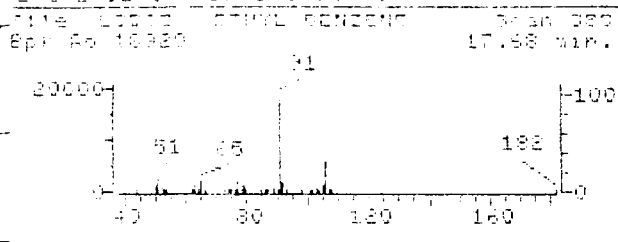
Area: 21084

Concentration: 17.05 UG/L

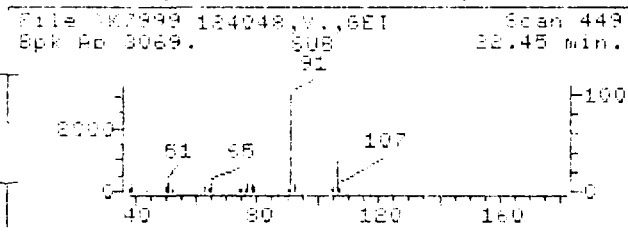
Quality: 100

30099

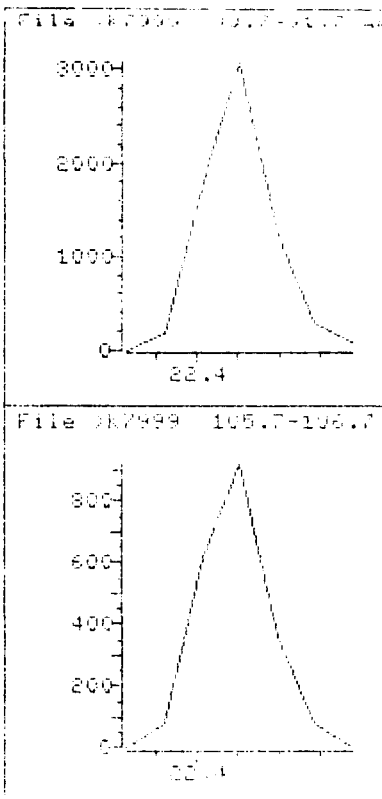
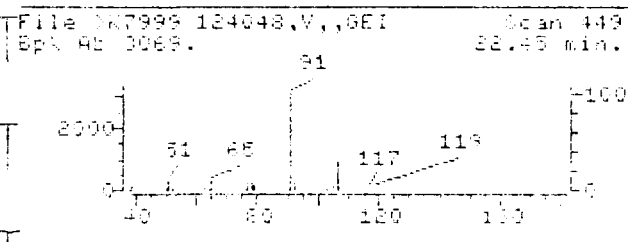
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: 187999:111

Graph Output File: 187999:111

Acq: 124048.V., G61

File: 111111-1, 111111-1, 111111-1, 111111-1, 111111-1, 111111-1, 111111-1, 111111-1

Graph File: 111111-1, 111111-1, 111111-1, 111111-1, 111111-1, 111111-1, 111111-1, 111111-1

Graph ID File: 111111-1, 111111-1, 111111-1, 111111-1, 111111-1, 111111-1, 111111-1, 111111-1

Injected at: 124048.V., G61

Last Calibration: 124048.V., G61

Compound No: 111

Compound Name: 111111-1, 111111-1, 111111-1, 111111-1, 111111-1, 111111-1, 111111-1, 111111-1

Scan Number: 449

Retention Time: 22.45 min.

Graph File: 111111-1, 111111-1, 111111-1, 111111-1, 111111-1, 111111-1, 111111-1, 111111-1

Area: 5.02

Concentration: 6.03 mg/L

Amount: 0.1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. -

92113NAICL

Lab Name: CAMBRO

Contract: GEI

Lab Code: CAMBRO

Case No.: FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124277

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K8087

Level: (low/mod) LOW

Date Received: 05/26/95

% Moisture: not dec.

Date Analyzed: 06/04/95

GC Column: CAP

ID: 0.330 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.

COMPOUND

Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Ethylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethane	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethane (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
36-25-8	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	43	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

92113NAICL

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: FD1423

SAS No.:

SOG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124277

Sample wt/Vol: 5.0 (g/mL) ML

Lab File ID: K8087

Level: (low/med) LOW

Date Received: 05/26/95

% Moisture: not dec.

Date Analyzed: 06/04/95

GC Column: CAP

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs Found: 0

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

QUANT REPORT

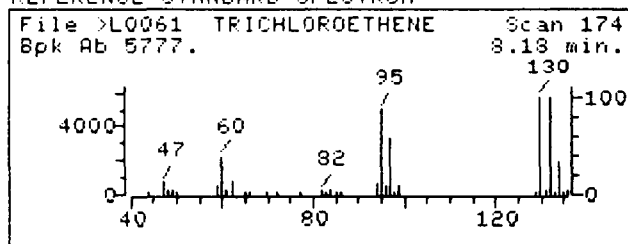
Operator ID: DOUG Quant Rev: 6 Quant Time: 950604 14:35
Output File: ^K8087::K2 Injected at: 950604 13:59
Data File: >K8087::L2 Dilution Factor: 1.00000
Name: 124277,V,EPA,GEI
Misc: CLP,FD 1423,,92113-NAI-CL-0595,L,W,ALS5 5ML TOM .0

ID File: KVOAID::DB
Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
Last Calibration: 950604 12:56

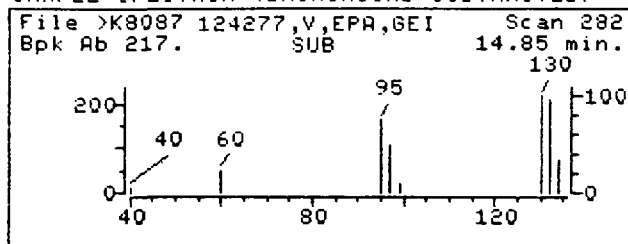
	Compound	R.T.	Q	ion	Area	Conc	Units	q
1)	*CI01 BROMOCHLOROMETHANE IS-1	11.43	128.0		34438	50.00	UG/L	94
20)	CS15 D4-1,2-DICHLOROETHANE SS1	12.98	65.0		35929	50.09	UG/L	91
24)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.21	114.0		147577	50.00	UG/L	100
32)	C150 TRICHLOROETHENE	14.85	130.0		1533	1.35	UG/L	94
38)	*CI20 D5-CHLOROBENZENE IS-3	22.00	117.0		119874	50.00	UG/L	100
41)	C220 TETRACHLOROETHYLENE	19.77	164.0		45645	43.28	UG/L	99
43)	CS05 D-8 TOLUENE (SS-2)	18.09	98.0		124724	50.53	UG/L	93
47)	CS10 BROMOFLUOROBENZENE (SS-3)	25.28	174.0		68794	51.14	UG/L	74

* Compound is ISTD

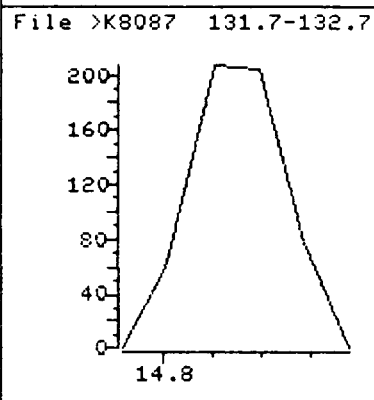
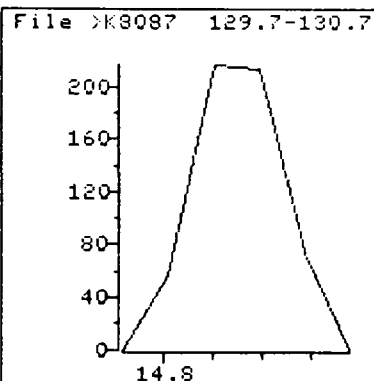
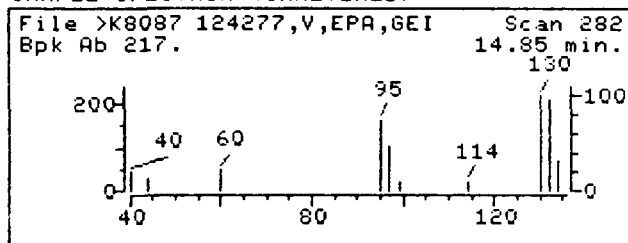
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8087::L2

Quant Output File: ^K8087::K2

Name: 124277,V,EPA,GEI

Misc: CLP,FD 1423,,92113-NAI-CL-0595,L,W,ALS5 5ML TOM .0

Quant Time: 950604 14:35

Quant ID File: KVOAID::DB

Injected at: 950604 13:59

Last Calibration: 950604 12:56

Compound No: 32

Compound Name: C150 TRICHLOROETHENE

Scan Number: 282

Retention Time: 14.85 min.

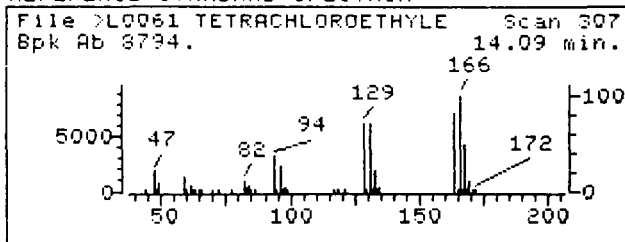
Quant Ion: 130.0

Area: 1533

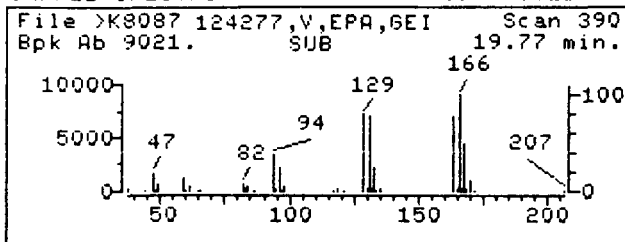
Concentration: 1.35 UG/L

q-value: 94

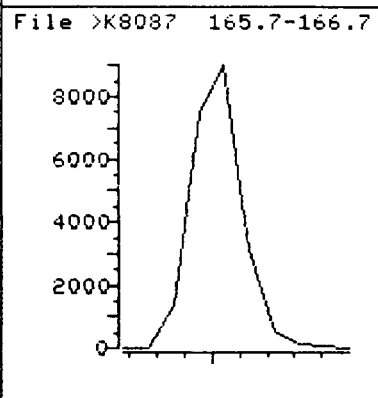
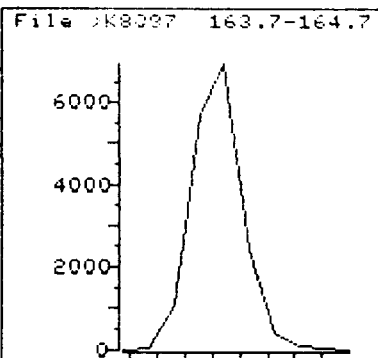
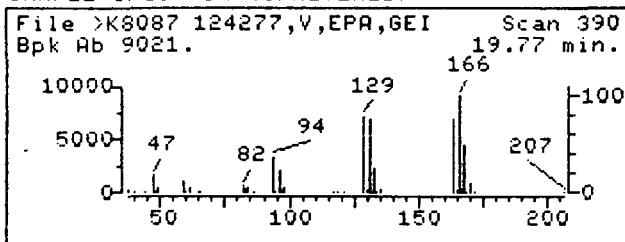
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8087::L2

Quant Output File: ^K8087::K2

Name: 124277,V,EPA,GEI

Misc: CLP,FD 1423,,92113-NAI-CL-0595,L,W,ALS5 5ML TOM .0

Quant Time: 950604 14:35

Quant ID File: KVOAID::DB

Injected at: 950604 13:59

Last Calibration: 950604 12:56

Compound No: 41

Compound Name: C220 TETRACHLOROETHYLENE

Scan Number: 390

Retention Time: 19.77 min.

Quant Ion: 164.0

Area: 45645

Concentration: 43.28 UG/L

q-value: 99

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

921130W2D

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124146

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K8051

Level: (low/med) LOW

Date Received: 05/26/95

% Moisture: not dec.

Date Analyzed: 06/03/95

GC Column: CAP

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO

COMPOUND

Q

74-87-3	Chloromethane	10	10
74-83-2	Dichloromethane	10	10
75-01-4	Vinyl Chloride	7	10
75-00-3	Chloroethane	10	10
75-09-2	Methylene Chloride	1	10
67-64-1	Acetone	10	10
75-15-0	Carbon Disulfide	10	10
75-35-4	1,1-Dichloroethene	15	
75-34-3	1,1-Dichloroethane	160	
640-59-0	1,2-Dichloroethene (total)	1100	EY
67-66-3	Chloroform	10	10
107-06-2	1,2-Dichloroethane	170	
75-93-3	2-Butanone	10	10
71-96-6	1,1,1-Trichloroethane	10	10
65-22-5	Carbon Tetrachloride	10	10
75-27-4	Bromodichloromethane	10	10
78-97-5	1,2-Dichloropropane	10	10
10061-01-5	cis-1,3-Dichloropropane	10	10
79-01-6	Trichloroethene	39	
124-48-1	Dibromochloromethane	10	10
79-00-5	1,1,2-Trichloroethane	2	10
71-43-2	Benzene	9	10
10061-02-6	trans-1,3-Dichloropropene	10	10
75-25-2	Bromoform	10	10
108-10-1	4-Methyl-2-Pentanone	10	10
591-78-6	2-Hexanone	10	10
127-18-4	Tetrachloroethene	6	10
79-34-5	1,1,2,2-Tetrachloroethane	10	10
108-88-3	Toluene	10	10
108-90-7	Chlorobenzene	7	10
100-41-4	Ethylbenzene	1	10
100-42-5	Styrene	10	10
1330-20-7	Xylene (total)	1	10

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

721130W2D

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124146

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K8051

Level: (low/med) LOW

Date Received: 05/26/95

% Moisture: not dec.

Date Analyzed: 06/03/95

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Number TICs found: 5

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 354234	Ethane, 1,2-dichloro-1,1,2-tri	5.73	24	UN
2.	IC9H12 isomer	24.92	7	J
3.	IC9H12 isomer	28.66	4	J
4.	IC9H12 isomer	28.89	3	J
5. 95501	Benzene, 1,2-dichloro-	29.71	40	UN

QUANT REPORT

Operator ID: DOUG

Quant Rev: 6

Quant Time: 950603 14:16

Output File: \K8051::K2

Injected at: 950603 13:41

Data File: \K8051::QT

Dilution Factor: 1.00000

Name: 124146,V,EPA,GEI

Disc: CLP,FD1423,,92113-0W2D-0595,L,W,ALS5 5ML TOM .01

ID File: KVOAID::DB

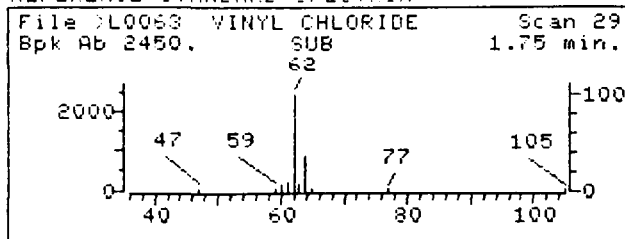
Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K

Last Calibration: 950603 10:31

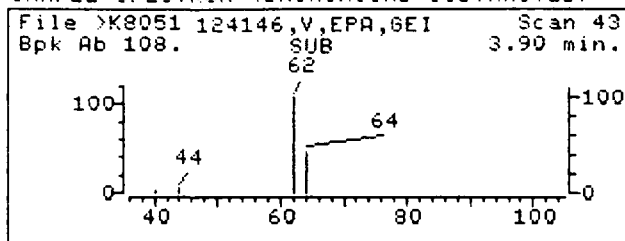
	Compound	R.T.	Q	ion	Area	Conc	Units	q
1)	*CI01 BROMOCHLOROMETHANE IS-1	11.42	128.0		36668	50.00	UG/L	98
4)	C020 VINYL CHLORIDE	3.90	62.0		1309	6.81	UG/L	86
8)	C030 METHYLENE CHLORIDE	7.41	84.0		634	.99	UG/L	69
1)	C045 1,1-DICHLOROETHENE	6.23	96.0		7791	14.89	UG/L	81
T2)	C050 1,1-DICHLOROETHANE	9.28	63.0		175420	163.98	UG/L	95
17)	C053 TOTAL-1,2-DICHLOROETHENE	10.83	96.0		839487M	1097.11	UG/L	87
9)	C065 1,2-DICHLOROETHANE	13.15	62.0		136859	173.04	UG/L	94
0)	CS15 D4-1,2-DICHLOROETHANE SS1	12.97	65.0		35977	43.61	UG/L	86
24)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.20	114.0		162156	50.00	UG/L	100
2)	C150 TRICHLOROETHENE	14.89	130.0		47012	38.98	UG/L	88
4)	C160 1,1,2-TRICHLOROETHANE	19.40	97.0		1337	1.60	UG/L	99
35)	C165 BENZENE	13.15	78.0		16538	9.20	UG/L	100
8)	*CI20 D5-CHLOROBENZENE IS-3	22.00	117.0		128650	50.00	UG/L	100
1)	C220 TETRACHLOROETHYLENE	19.76	164.0		6266	5.82	UG/L	96
43)	CS05 D-8 TOLUENE (SS-2)	18.12	98.0		135019	49.19	UG/L	89
45)	C235 CHLOROBENZENE	22.09	112.1		16128	7.45	UG/L	91
6)	C240 ETHYL BENZENE	22.45	106.0		1113	1.21	UG/L	99
7)	CS10 BROMOFLUOROBENZENE (SS-3)	25.28	174.0		71689	46.35	UG/L	73
51)	C250 TOTAL XYLENES	22.77	106.0		1217M	1.05	UG/L	

* Compound is ISTD

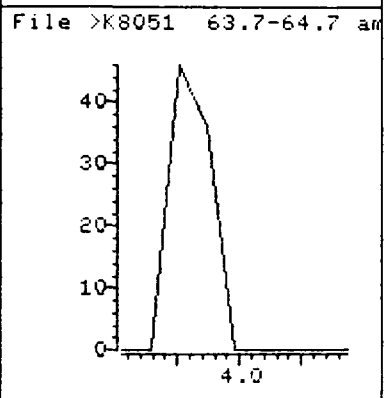
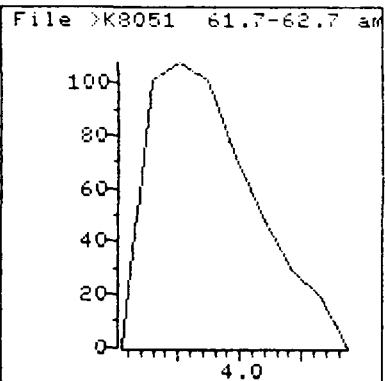
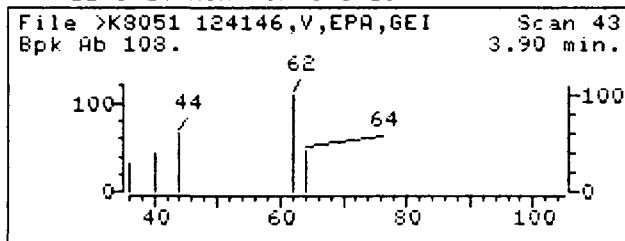
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8051::QT

Quant Output File: ^K8051::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD1423,,92113-0W2D-0595,L,W,ALS5 5ML TOM .01

Quant Time: 950603 14:16

Quant ID File: KVOAID::DB

Injected at: 950603 13:41

Last Calibration: 950603 10:31

Compound No: 4

Compound Name: C020 VINYL CHLORIDE

Scan Number: 43

Retention Time: 3.90 min.

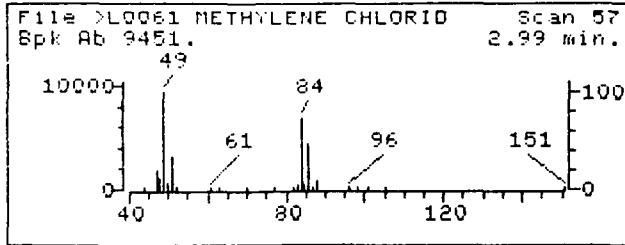
Quant Ion: 62.0

Area: 1309

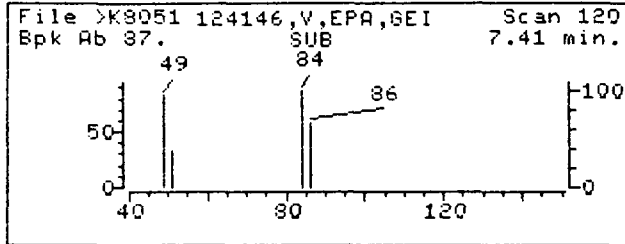
Concentration: 6.81 UG/L

q-value: 86

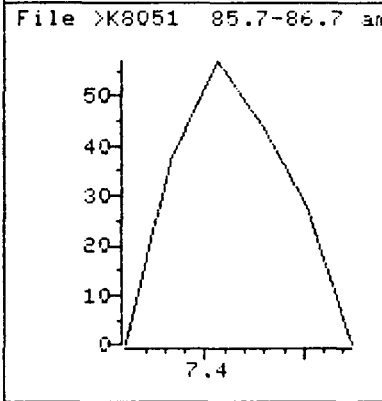
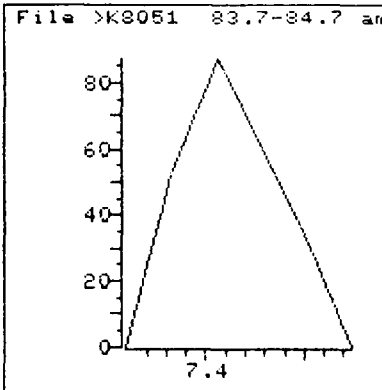
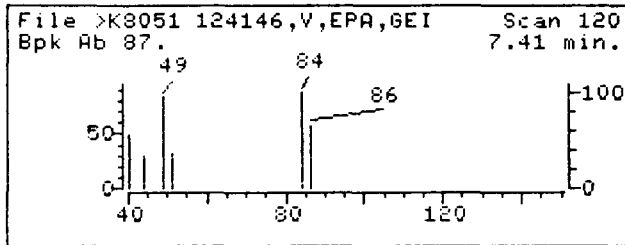
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



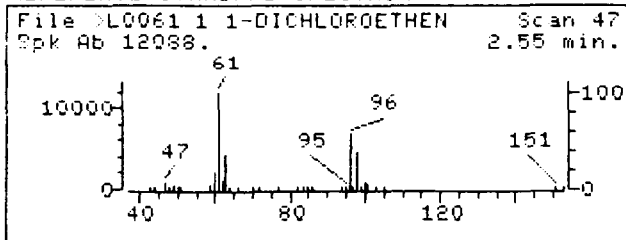
SAMPLE SPECTRUM (UNALTERED)



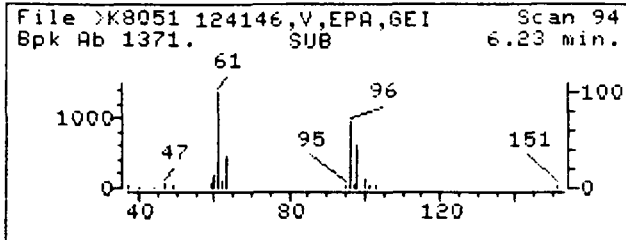
Data File: >K8051::QT Quant Output File: ^K8051::K2
Name: 124146,V,EPA,GEI
Misc: CLP,FD1423,,92113-0W2D-0595,L,W,ALS5 5ML TOM .01
Quant Time: 950603 14:16 Quant ID File: KVOAID::DB
Injected at: 950603 13:41 Last Calibration: 950603 10:31

Compound No: 8
Compound Name: C030 METHYLENE CHLORIDE
Scan Number: 120
Retention Time: 7.41 min.
Quant Ion: 84.0
Area: 634
Concentration: .99 UG/L
q-value: 69

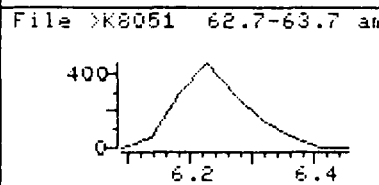
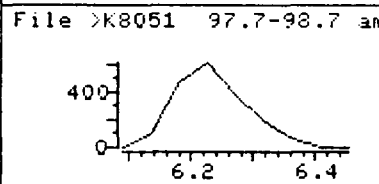
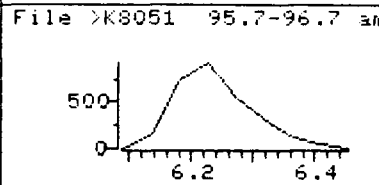
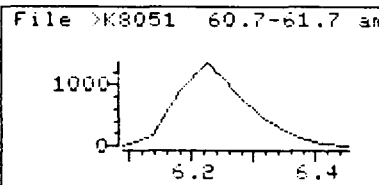
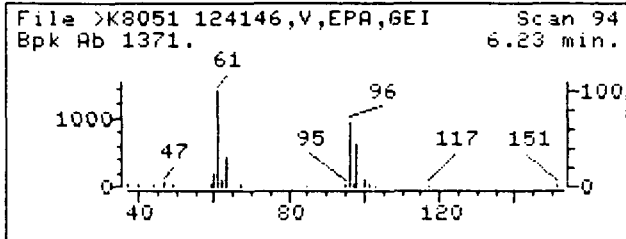
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8051::QT

Quant Output File: ^K8051::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD1423,,92113-0W2D-0595,L,W,ALS5 5ML TOM .01

Quant Time: 950603 14:16

Quant ID File: KUDRID::DB

Injected at: 950603 13:41

Last Calibration: 950603 10:31

Compound No: 11

Compound Name: C045 1,1-DICHLOROETHENE

Scan Number: 94

Retention Time: 6.23 min.

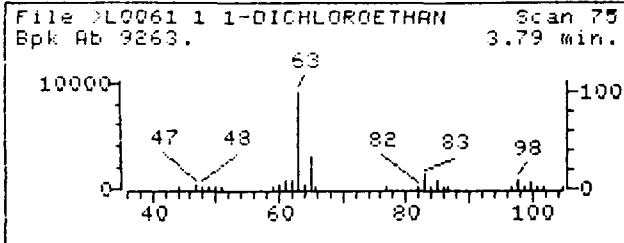
Quant Ion: 96.0

Area: 7791

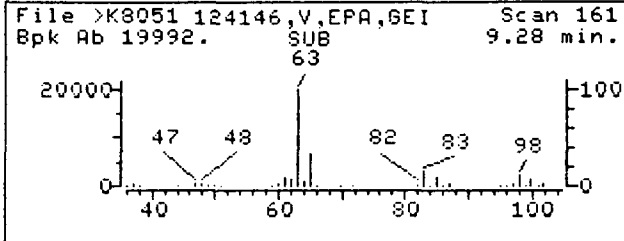
Concentration: 14.89 UG/L

q-value: 81

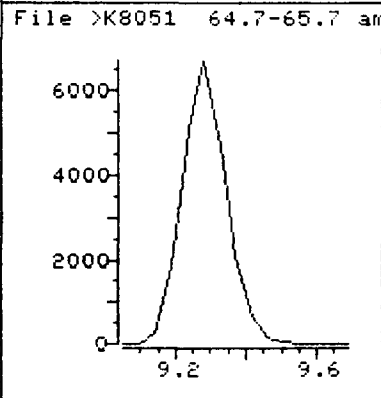
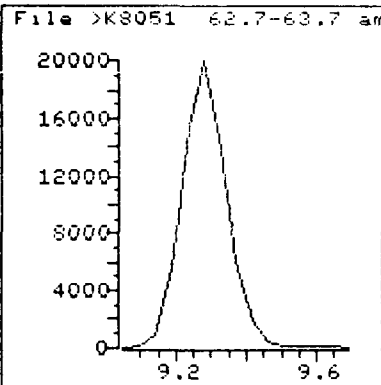
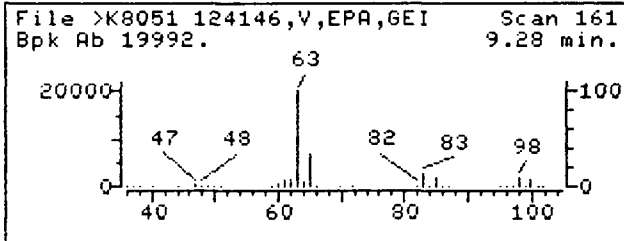
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8051::QT

Quant Output File: ^K8051::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD1423,,92113-QW2D-0595,L,W,ALS5 5ML TOM .01

Quant Time: 950603 14:16

Quant ID File: KUQAID::DB

Injected at: 950603 13:41

Last Calibration: 950603 10:31

Compound No: 12

Compound Name: C050 1,1-DICHLOROETHANE

Scan Number: 161

Retention Time: 9.28 min.

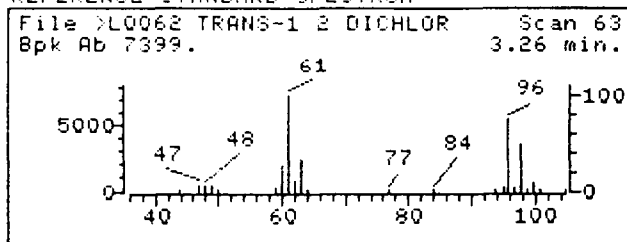
Quant Ion: 63.0

Area: 175420

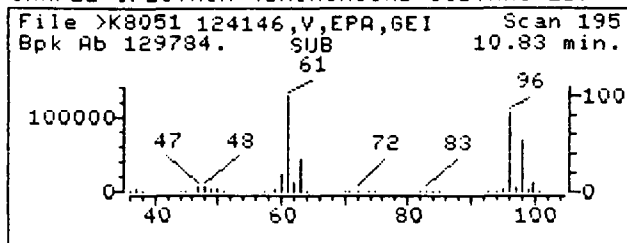
Concentration: 163.98 UG/L

q-value: 95

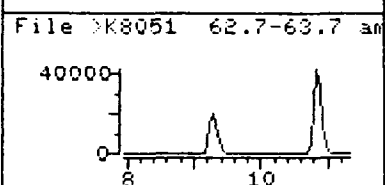
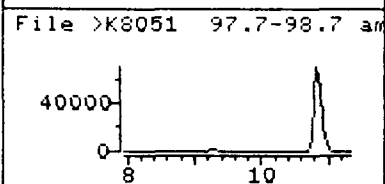
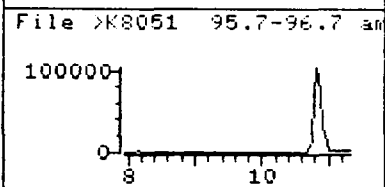
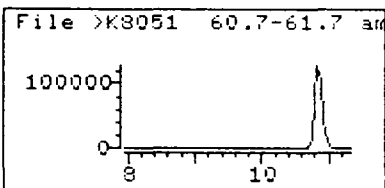
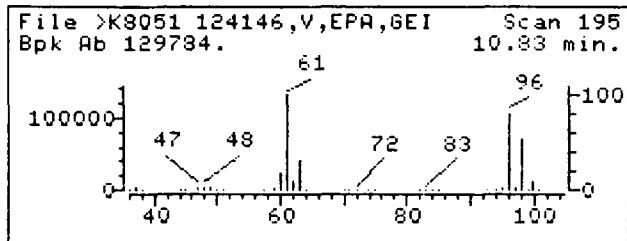
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8051::QT

Quant Output File: ^K8051::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD1423,,92113-DW2D-0595,L,W,ALS5 5ML TOM .01

Quant Time: 950603 14:16

Quant ID File: KVOAID::DB

Injected at: 950603 13:41

Last Calibration: 950603 10:31

Compound No: 17

Compound Name: C053 TOTAL-1,2-DICHLOROETHENE

Scan Number: 195

Retention Time: 10.83 min.

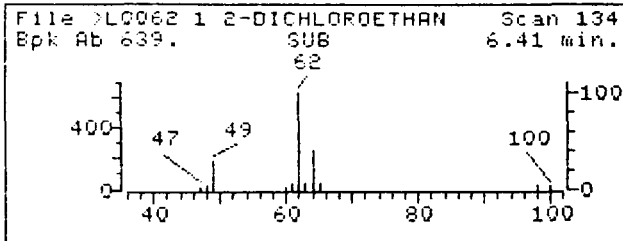
Quant Ion: 96.0

Area: 839487M

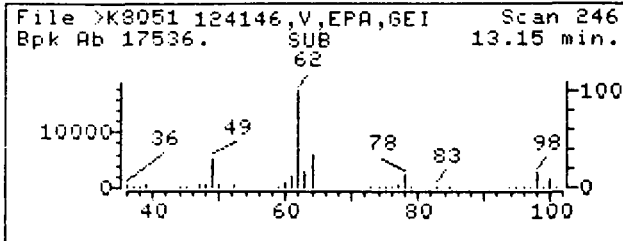
Concentration: 1097.11 UG/L

q-value: 87

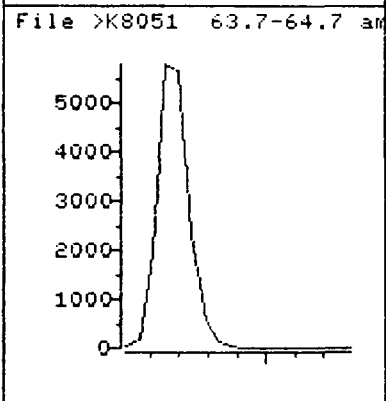
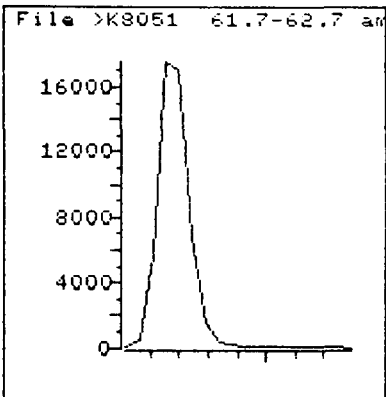
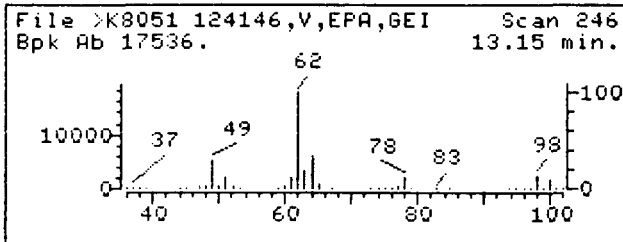
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



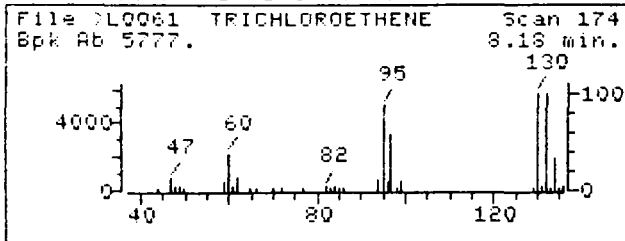
SAMPLE SPECTRUM (UNALTERED)



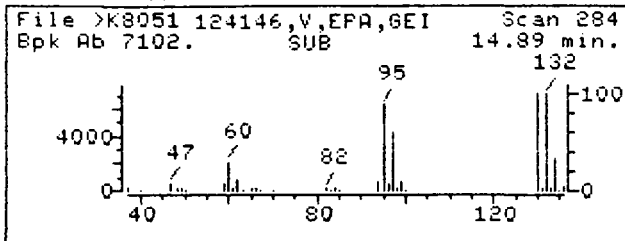
Data File: >K8051::QT Quant Output File: ^K8051::K2
Name: 124146,V,EPA,GEI
Misc: CLP,FD1423,,92113-DW2D-0595,L,W,ALS5 5ML TOM .01
Quant Time: 950603 14:16 Quant ID File: KVOAID::DR
Injected at: 950603 13:41 Last Calibration: 950603 10:31

Compound No: 19
Compound Name: C065 1,2-DICHLOROETHANE
Scan Number: 246
Retention Time: 13.15 min.
Quant Ion: 62.0
Area: 136859
Concentration: 173.04 UG/L
q-value: 94

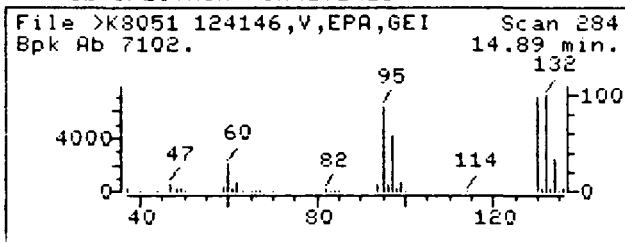
REFERENCE STANDARD SPECTRUM



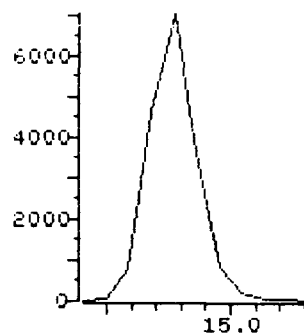
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



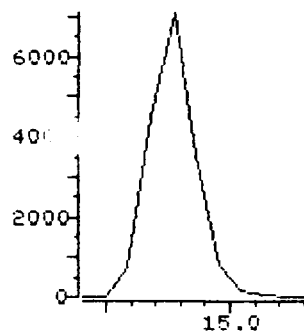
SAMPLE SPECTRUM (UNALTERED)



File >K8051 129.7-130.7



File >K8051 131.7-132.7



Data File: >K8051::QT

Quant Output File: ^K8051::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD1423,,92113-0W2D-0595,L,W,ALS5 5ML TOM .01

Quant Time: 950603 14:16

Quant ID File: KVOAID::DB

Injected at: 950603 13:41

Last Calibration: 950603 10:31

Compound No: 32

Compound Name: C150 TRICHLOROETHENE

Scan Number: 284

Retention Time: 14.89 min.

Quant Ion: 130.0

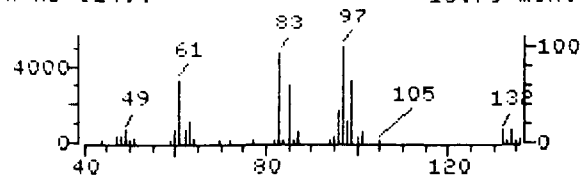
Area: 47012

Concentration: 38.98 UG/L

q-value: 88

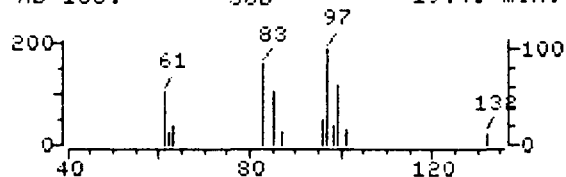
REFERENCE STANDARD SPECTRUM

File >L0061 1 1 2-TRICHLOROET Scan 299
Bpk Ab 5149. 13.73 min.



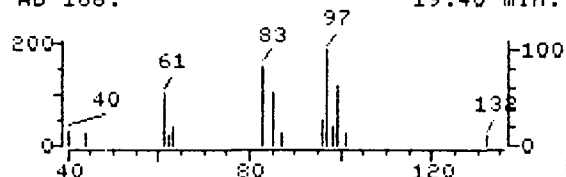
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >K8051 124146,V,EPA,GEI Scan 383
Bpk Ab 186. SUB 19.40 min.

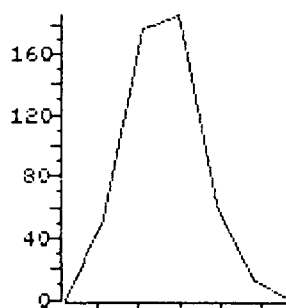


SAMPLE SPECTRUM (UNALTERED)

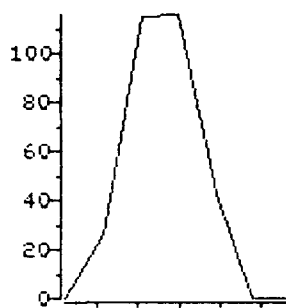
File >K8051 124146,V,EPA,GEI Scan 383
Bpk Ab 186. 19.40 min.



File >K8051 96.7-97.7 am



File >K8051 98.7-99.7 am



Data File: >K8051::QT

Quant Output File: ^K8051::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD1423,,92113-0W2D-0595,L,W,ALS5 5ML TOM .01

Quant Time: 950603 14:16

Quant ID File: KVOAID::DB

Injected at: 950603 13:41

Last Calibration: 950603 10:31

Compound No: 34

Compound Name: C160 1,1,2-TRICHLOROETHANE

Scan Number: 383

Retention Time: 19.40 min.

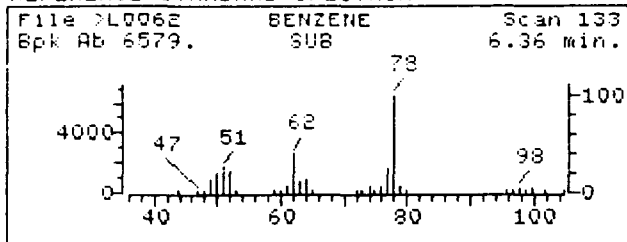
Quant Ion: 97.0

Area: 1337

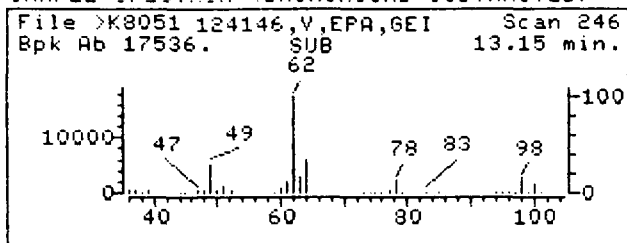
Concentration: 1.60 UG/L

q-value: 99

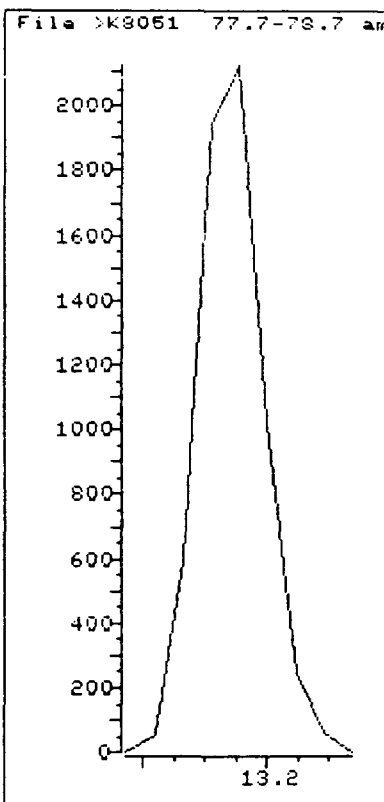
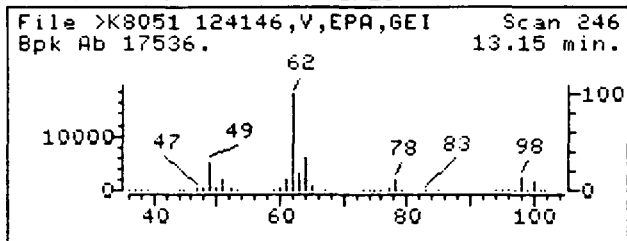
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8051::QT

Quant Output File: ^K8051::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD1423,,92113-0W2D-0595,L,W,ALS5 5ML TOM .01

Quant Time: 950603 14:16

Quant ID File: KUQAID::DB

Injected at: 950603 13:41

Last Calibration: 950603 10:31

Compound No: 35

Compound Name: C165 BENZENE

Scan Number: 246

Retention Time: 13.15 min.

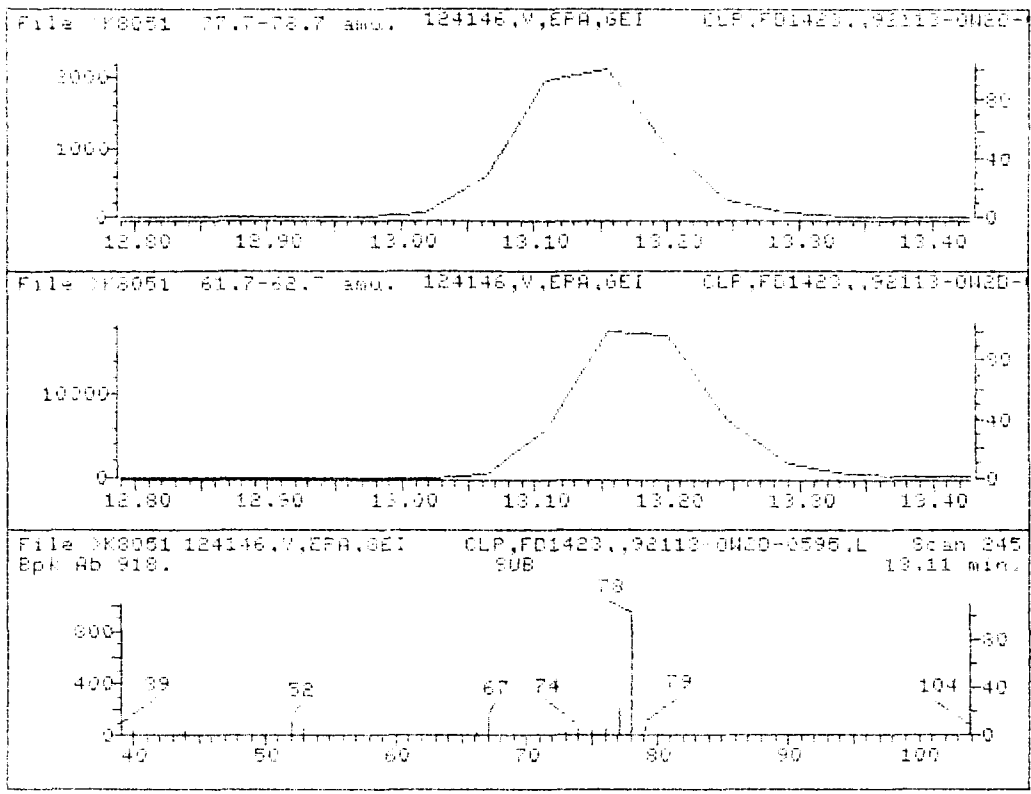
Quant Ion: 78.0

Area: 16538

Concentration: 9.20 UG/L

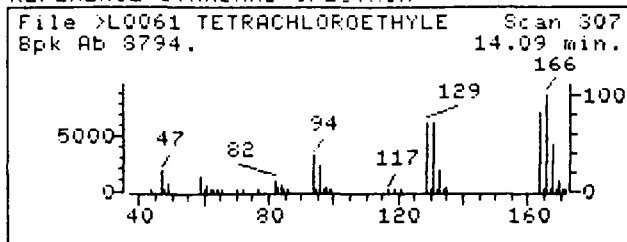
q-value: 100

clean spec

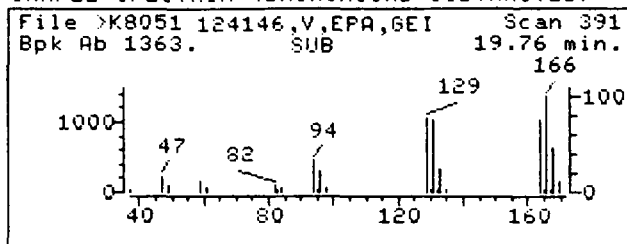


benzene

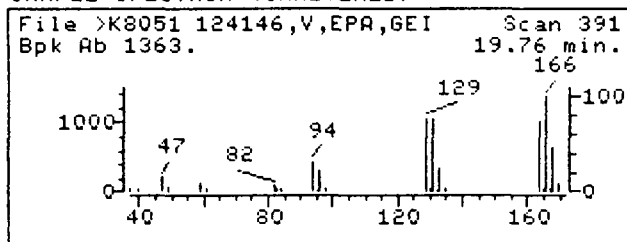
REFERENCE STANDARD SPECTRUM



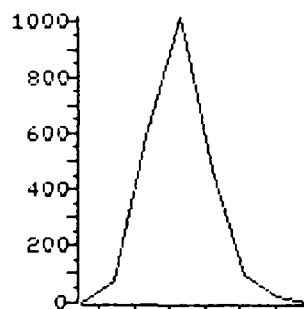
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



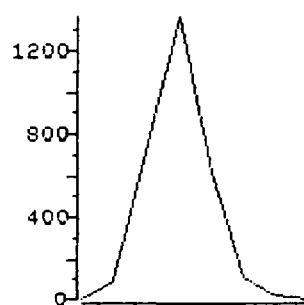
SAMPLE SPECTRUM (UNALTERED)



File >K8051 163.7-164.7



File >K8051 165.7-166.7



Data File: >K8051::QT

Quant Output File: ^K8051::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD1423,,92113-0W2D-0595,L,W,ALS5 5ML TOM .01

Quant Time: 950603 14:16

Quant ID File: KVOAID::DB

Injected at: 950603 13:41

Last Calibration: 950603 10:31

Compound No: 41

Compound Name: C220 TETRACHLOROETHYLENE

Scan Number: 391

Retention Time: 19.76 min.

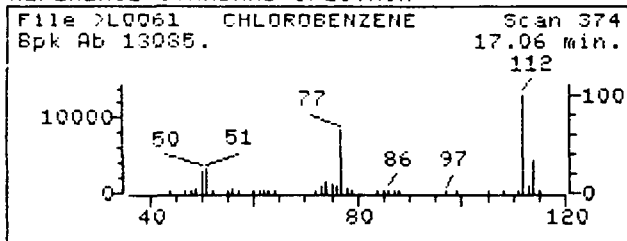
Quant Ion: 164.0

Area: 6266

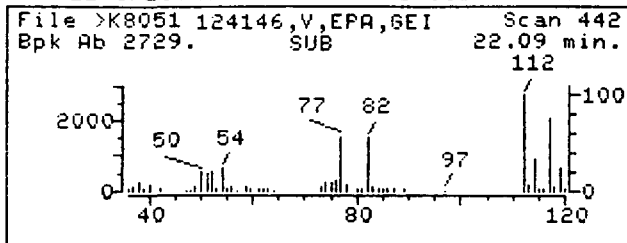
Concentration: 5.82 UG/L

q-value: 96

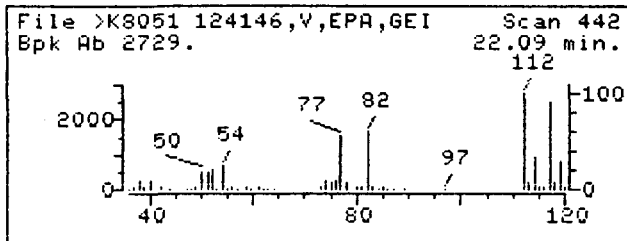
REFERENCE STANDARD SPECTRUM



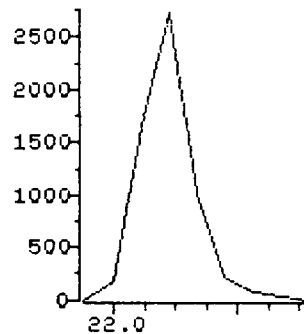
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



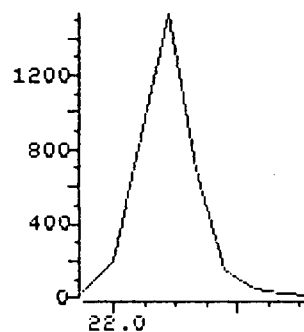
SAMPLE SPECTRUM (UNALTERED)



File >K8051 111.8-112.8



File >K8051 76.7-77.7 am



Data File: >K8051::QT

Quant Output File: ^K8051::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD1423,,92113-0W2D-0595,L,W,ALS5 5ML TOM .01

Quant Time: 950603 14:16

Quant ID File: K00AID::DB

Injected at: 950603 13:41

Last Calibration: 950603 10:31

Compound No: 45

Compound Name: C235 CHLOROBENZENE

Scan Number: 442

Retention Time: 22.09 min.

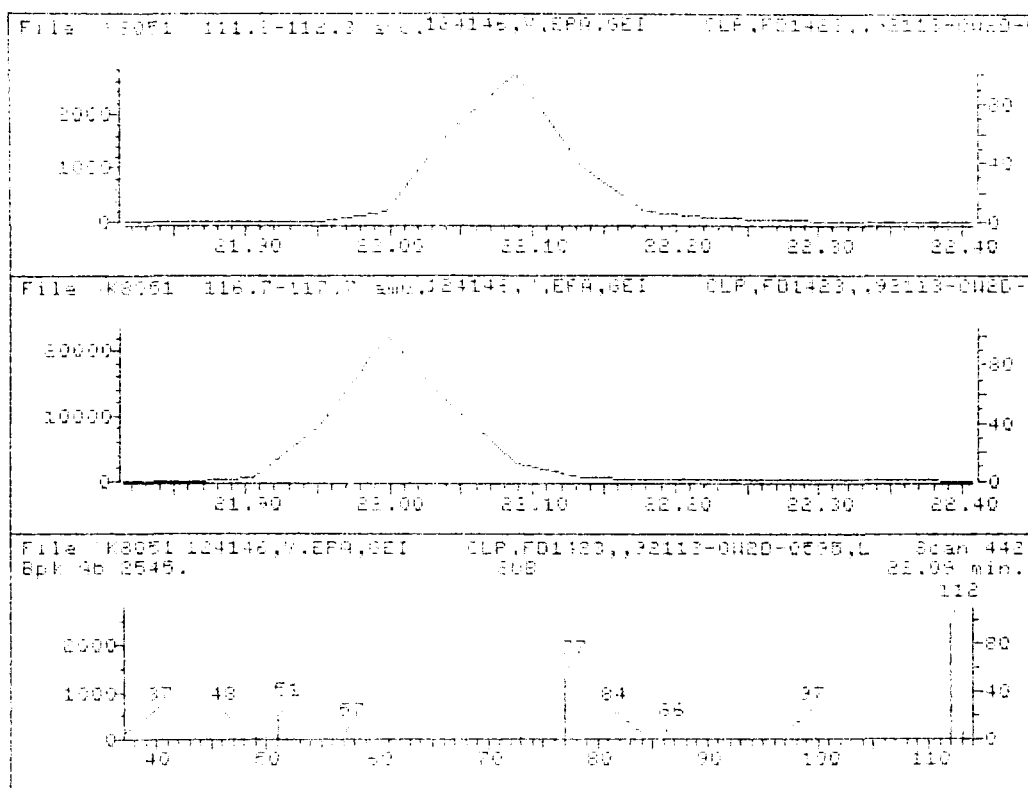
Quant Ion: 112.1

Area: 16128

Concentration: 7.45 UG/L

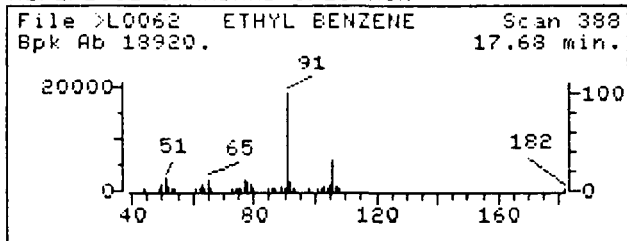
q-value: 91

Clear spectra

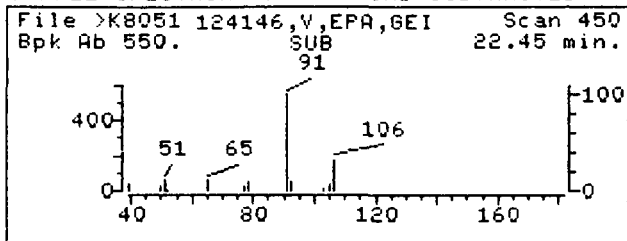


oklamine

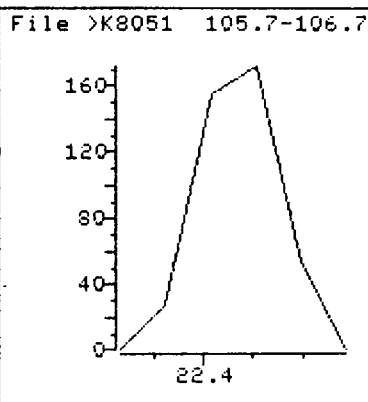
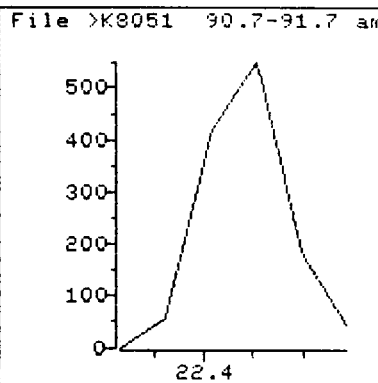
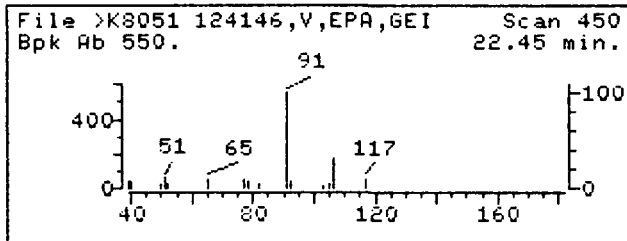
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8051::QT

Quant Output File: ^K8051::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD1423,,92113-0W2D-0595,L,W,ALS5 5ML TOM .01

Quant Time: 950603 14:16

Quant ID File: KVOAID::DB

Injected at: 950603 13:41

Last Calibration: 950603 10:31

Compound No: 46

Compound Name: C240 ETHYL BENZENE

Scan Number: 450

Retention Time: 22.45 min.

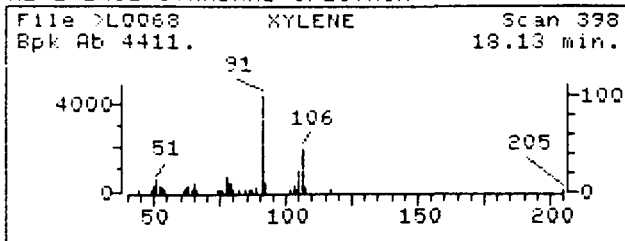
Quant Ion: 106.0

Area: 1113

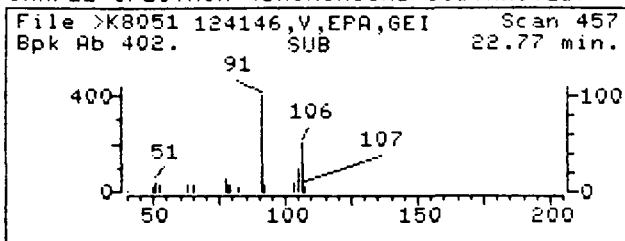
Concentration: 1.21 UG/L

q-value: 99

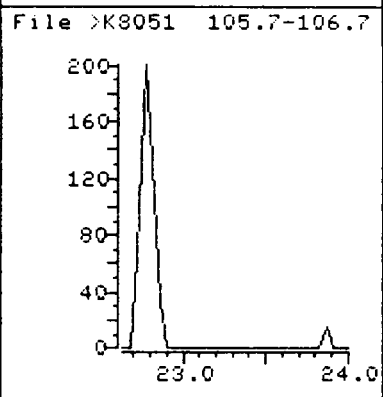
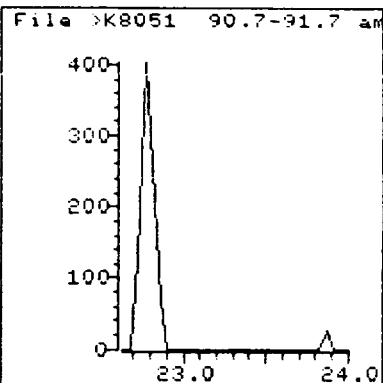
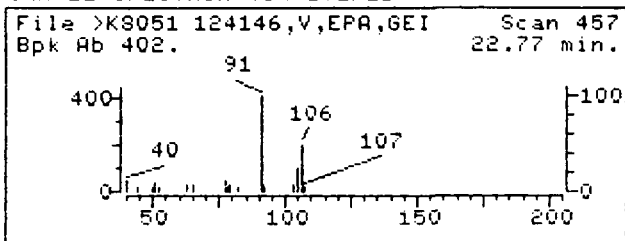
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8051::QT

Quant Output File: ^K8051::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD1423,,92113-QW2D-0595,L,W,ALS5 5ML TOM .01

Quant Time: 950603 14:16

Quant ID File: KVOAID::DB

Injected at: 950603 13:41

Last Calibration: 950603 10:31

Compound No: 51

Compound Name: C250 TOTAL XYLENES

Scan Number: 457

Retention Time: 22.77 min.

Quant Ion: 106.0

Area: 1217M

Concentration: 1.05 UG/L

MS data file header from : IK8051

Sample: 124146,V,EPA,6EI Operator: DOUG SUPER GPP. 5/22/95 10:41
Misc : CLP,FD1423,,92113-QW2D-0595,L,W,ALSS SML TOM .20
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS #: 0
Method file: KVOA Tuning file: MTUNEK No. of extra records: 2
Source temp.: 0 Analyzer temp.: 220 Transfer line temp.: 0

Chromatographic temperatures : 37. 150. 150. 0. 0.
Chromatographic times, min. : 7.0 4.0 3.0 0.0 0.0
Chromatographic rate, deg/min: 5.0 5.0 0.0 .2 0.0

IK8051 124146,V,EPA,6EI CLP,FD1423,,92113-QW2D-0595,L,W,ALSS 5

35.01 300.0 CLP TID

Upslope: .20 Area Reject: 21919. Max Peaks: 7 Bunching: 1
Dnslope: 0.00 Results File IK8051 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	2.81	17	19	21	7353	56010	55190	17.55	8.100
2	2.99	21	23	34	12163	103934	102512	33.16	15.046
3	5.73	73	85	91	9770	107886	106228	34.04	15.444
4	14.92	501	504	509	9218	57415	56060	18.14	8.231
5	23.55	584	586	589	3938	29399	28399	9.13	4.169
6	29.80	599	591	594	4260	28272	24828	8.03	3.844
7	29.70	606	609	620	47854	311860	309104	100.00	45.357

Sum of corrected areas: 681341.

Summary of Unknowns PBM Library Search and Quantitation

Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	219184.	11.42	1.99 - 12.81
2	50.0	335249.	14.20	12.81 - 18.10
3	50.0	388171.	22.00	18.10 - 35.08

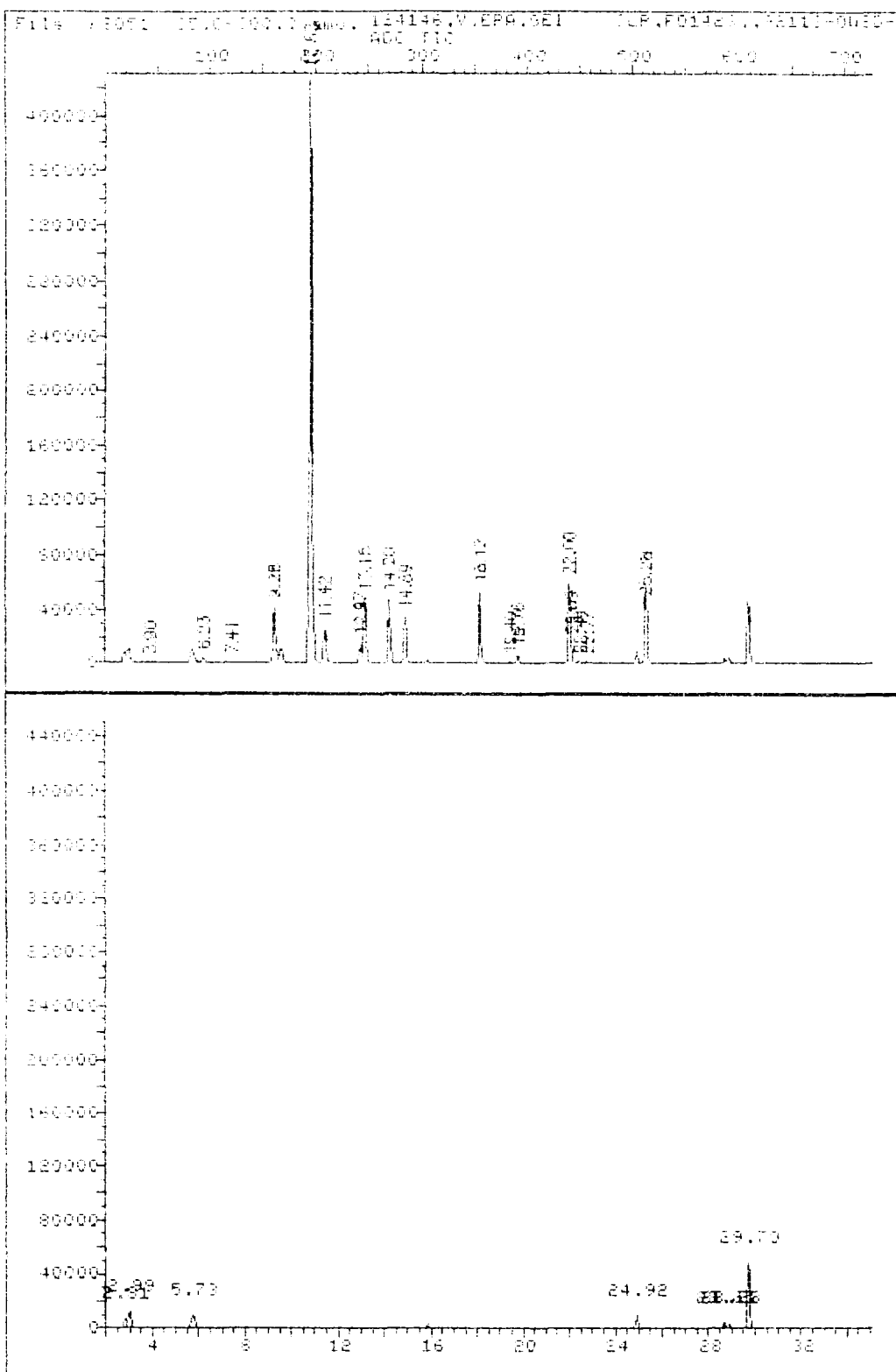
Dilution Factor = 1.00 U dilf = 1.00
Method called for 1000.000 g or mL This sample was 1000.000 g or mL

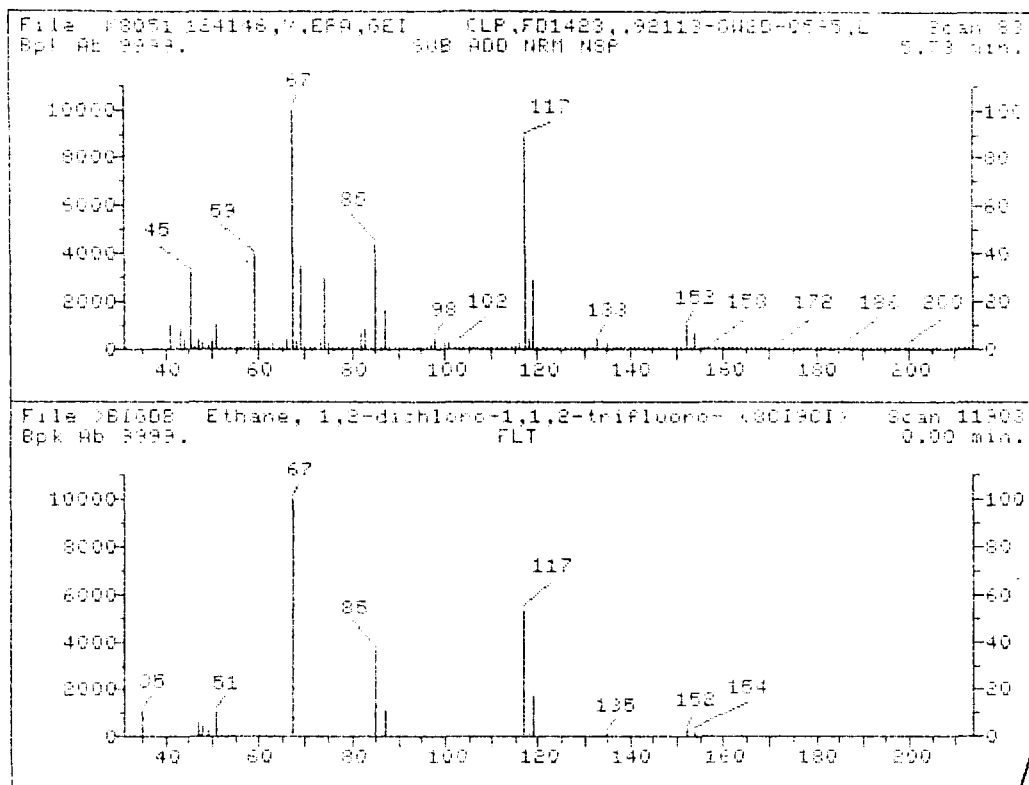
Correction Factor = 1.00

Unknown Concentration = $\frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unknown} * \text{Correction Factor}$

1:27 PM FRI., 9 JUNE, 1995

30126



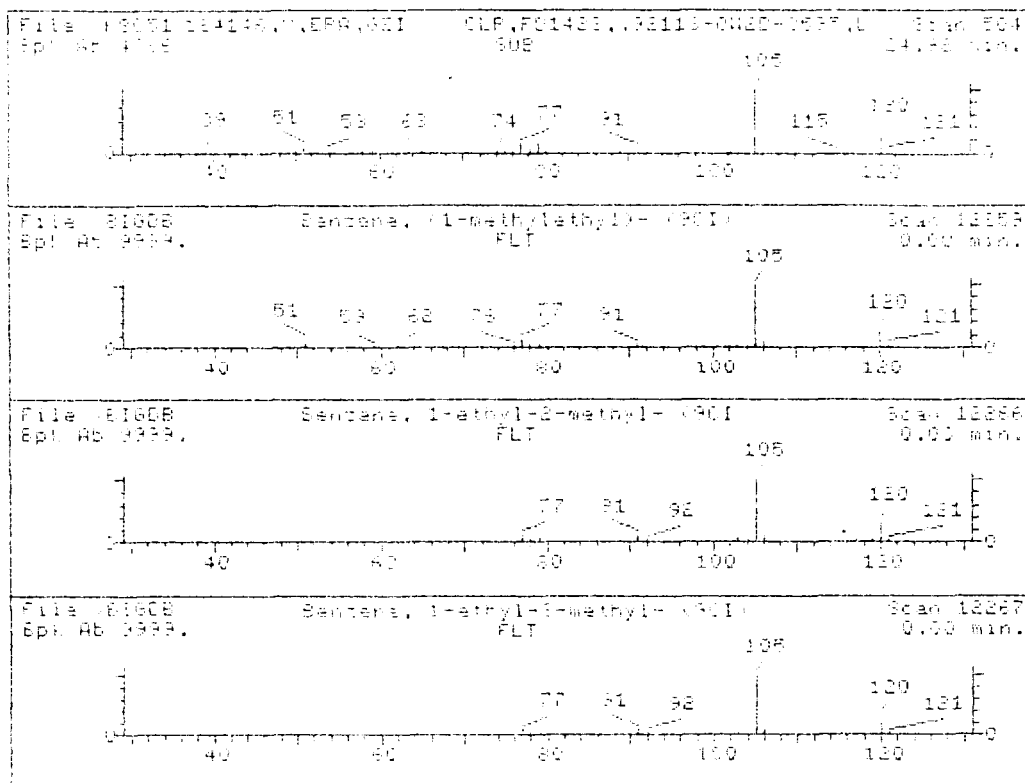


UNKNOWN #,3
AREA = 105213.9 TENTATIVE CONCENTRATION IS 24.00

1. Ethane, 1,2-dichloro-1,1,2-trifluoro- (801901) 152 02HC12F3

Sample file: >K8051 Spectrum #: 83
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	O_I	R_IV
1.	32*	354234	11903	"B16DB	41	68	0	0	87	51	9 43



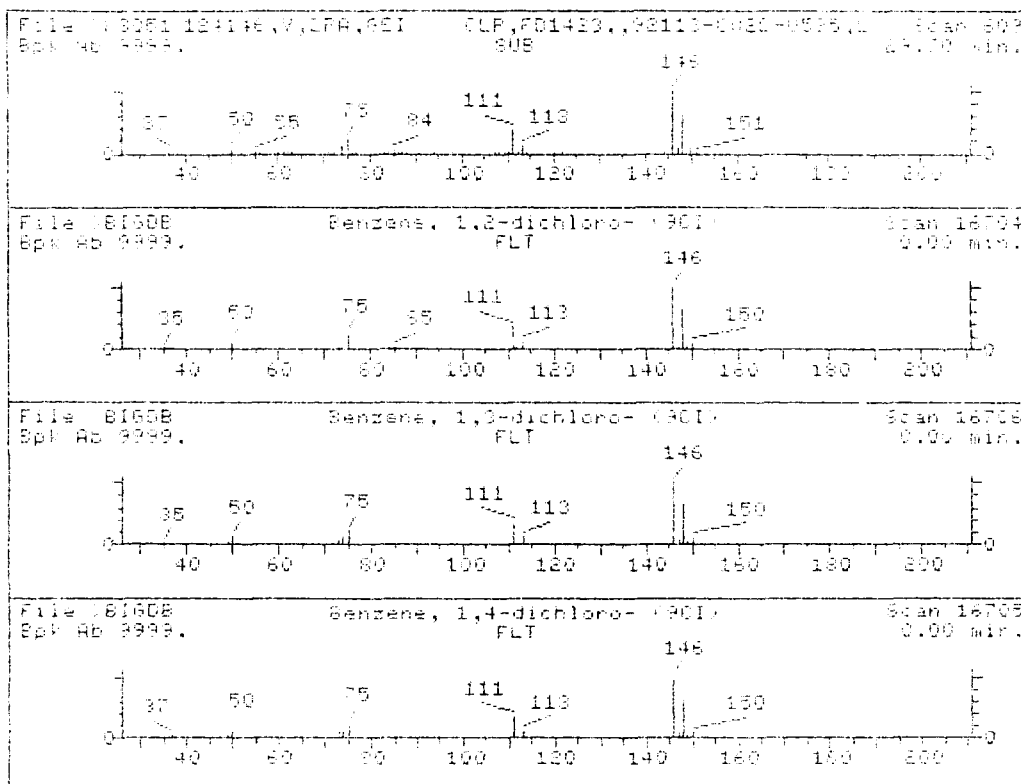
*C₉H₁₂
isomer*

UNKNOWN #,4
AREA = 55050.00 TENTATIVE CONCENTRATION IS 7.00

- | | |
|---------------------------------------|-------------|
| 1. Benzene, (1-methylethyl)- (901) | 120 C9H12 |
| 2. Benzene, 1-ethyl-3-methyl- (901) | 120 C9H12 |
| 3. Benzene, 1-ethyl-3-methyl- (901) | 120 C9H12 |
| 4. Benzene, 1-ethyl-4-methyl- (901) | 120 C9H12 |
| 5. Benzene, 1,2,3-trimethyl- (901901) | 120 C9H12 |
| 6. Benzene, (1-nitroethyl)- (901901) | 151 C9H9NO2 |

Sample file: K8051 Spectrum #: 504
Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	QAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_I
1.	83*	99628	12159	"B1608	58	29	1	0	68	10	54	67
2.	79*	611143	12266	"B1608	53	32	2	0	91	7	48	36
3.	76*	620144	12267	"B1608	46	41	2	0	85	10	45	16
4.	67*	622958	12268	"B1608	41	44	2	0	94	14	34	21
5.	49*	525738	12060	"B1608	55	44	2	0	57	35	10	35
6.	18	7214611	9912	"B1608	47	30	0	0	35	50	4	27



✓ by 21.

Collyer
10/20/82

UNKNOWN #,7
AREA = 308104.0 TENTATIVE CONCENTRATION IS 40.00

1. Benzene, 1,2-dichloro- (9CI) 146 C5H4Cl2
2. Benzene, 1,3-dichloro- (9CI) 146 C5H4Cl2
3. Benzene, 1,4-dichloro- (9CI) 146 C5H4Cl2
4. 2-Thiophenecarboxaldehyde, 5-chloro- (9CI9CI) 146 C5H3ClO2S
5. 1H-Indole-3-ethanol, 5-hydroxy- (9CI) 177 C10H11NO2

Sample file: >K8051 Spectrum #: 509
Search speed: 1 Tilting option: N No. of ion ranges searched: 40

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	97*	95501	16704	"BIGDB	101	10	0	0	78	6	68	97
2.	95*	541731	16706	"BIGDB	87	21	0	0	76	2	72	95
3.	95*	106467	16705	"BIGDB	84	24	0	0	68	9	68	95
4.	25*	7283967	16703	"BIGDB	20	84	2	0	117	50	7	13
5.	11	154029	16736	"BIGDB	37	45	1	0	83	61	2	14

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

921130W20DL

Lab Name: CAMBRO

Contract: GEI

Lab Code: CAMBRO

Case No

FD1423

GAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124146DL

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K2083

Level: (low/med) LOW

Date Received: 05/26/95

% Moisture: not det.

Date Analyzed: 06/04/95

GC Column: CAP

ID: 0.530 (mm)

Dilution Factor: 10.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO

COMPOUND

Q

74-87-3	Chloromethane	100	10
74-80-9	Bromomethane	100	10
75-01-4	Vinyl Chloride	100	10
75-01-3	Chloroethane	100	10
75-01-2	1,1-Dichloroethane	13	BDJ
67-64-1	Acetone	100	10
75-15-0	Carbon Disulfide	100	10
75-28-4	1,1-Dichloroethene	13	BDJ
75-34-3	1,2-Dichloroethane	150	10
640-59-0	1,2-Dichloroethene (total)	1200	10
67-66-0	Chloroform	100	10
107-06-2	1,2-Dichloroethene	170	10
78-93-3	2-Butanone	100	10
71-55-6	1,1,1-Trichloroethane	100	10
86-29-8	Carbon Tetrachloride	100	10
75-27-4	Bromodichloromethane	100	10
78-87-5	1,2-Dichloropropene	100	10
10061-01-8	cis-1,3-Dichloropropene	100	10
79-01-6	Trichloroethene	37	BDJ
124-48-1	Dibromochloromethane	100	10
79-00-5	1,1,2-Trichloroethane	100	10
71-43-2	Benzene	100	10
10061-02-6	trans-1,3-Dichloropropene	100	10
75-25-2	Bromoform	100	10
108-10-1	4-Methyl-2-Pentanone	100	10
591-78-6	2-Hexanone	100	10
127-18-4	Tetrachloroethene	100	10
79-34-5	1,1,2,2-Tetrachloroethane	100	10
108-88-3	Toluene	100	10
105-90-7	Chlorobenzene	100	10
100-41-4	Ethylbenzene	100	10
100-42-5	Styrene	100	10
1330-20-7	Xylene (total)	100	10

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

921130WEDDL

Lab Name: CAMBRO

Contract: OEI

Lab Code: CAMBRO

Case No.: FD1423

SAS No.:

SDG No.

Matrix: (soil/water) WATER

Lab Sample ID: 124146DL

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K0083

Level: (low/med) LDW

Date Received: 05/26/95

% Moisture: not det.

Date Analyzed: 06/04/95

GC Column: CAP

ID: 0.530 (mm)

Dilution Factor: 10.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Number TICs Found: 0

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

QUANT REPORT

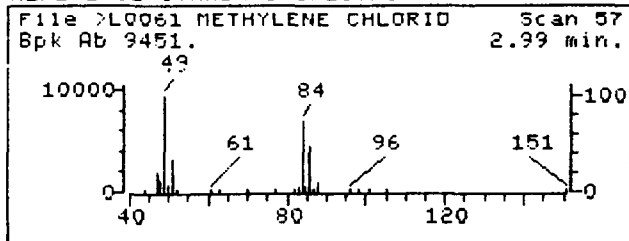
Operator ID: DOUG Quant Rev: 6 Quant Time: 950604 12:57
 Output File: ^K8083::K2 Injected at: 950604 11:18
 Data File: >K8083::L2 Dilution Factor: 1.00000
 Name: 124146,U,EPA,GEI
 Misc: CLP,FD 1423,,92113-0W2D-0595,L,W,ALS1 1:10 TOM .019

ID File: KVOAID::DB
 Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
 Last Calibration: 950604 12:56

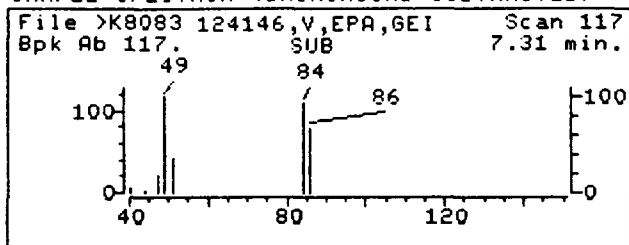
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 BROMOCHLOROMETHANE IS-1	11.36	128.0	39468	50.00	UG/L	98
8)	C030 METHYLENE CHLORIDE	7.31	84.0	929	1.29	UG/L✓	76
11)	C045 1,1-DICHLOROETHENE	6.12	96.0	768	1.28	UG/L✓	78
12)	C050 1,1-DICHLOROETHANE	9.18	63.0	17654	15.25	UG/L✓	95
17)	C053 TOTAL-1,2-DICHLOROETHENE	10.77	96.0	101551	120.09	UG/L✓	85
19)	C065 1,2-DICHLOROETHANE	13.14	62.0	14403	16.82	UG/L✓	89
20)	CS15 D4-1,2-DICHLOROETHANE SS1	12.91	65.0	38234	46.51	UG/L	90
24)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.19	114.0	170102	50.00	UG/L	100
32)	C150 TRICHLOROETHENE	14.83	130.0	4788	3.67	UG/L✓	96
38)	*CI20 D5-CHLOROBENZENE IS-3	21.98	117.0	136584	50.00	UG/L	100
43)	CS05 D-8 TOLUENE (SS-2)	18.06	98.0	137535	48.90	UG/L	90
47)	CS10 BROMOFLUOROBENZENE (SS-3)	25.31	174.0	75361	49.17	UG/L	87
54)	CWWW 1,2-DICHLOROBENZENE	29.73	146.0	9070	4.45	UG/L✓	93

* Compound is ISTD

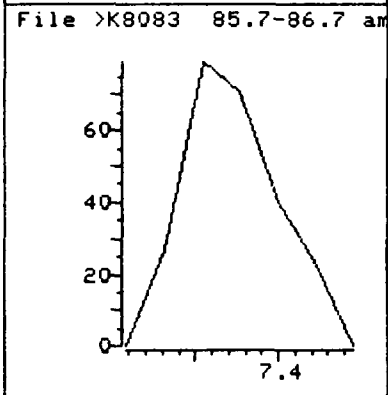
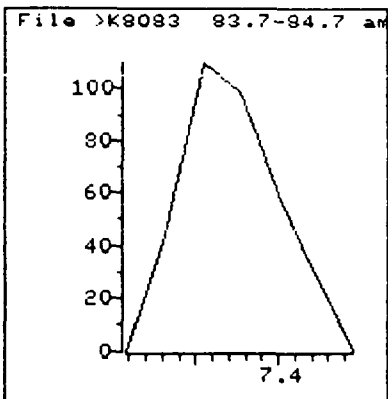
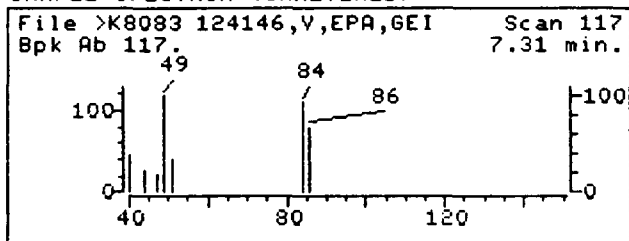
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8083::L2

Quant Output File: ^K8083::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD 1423,,92113-OW2D-0595,L,W,ALS1 1:10 TOM .019

Quant Time: 950604 12:57

Quant ID File: K00AID::DB

Injected at: 950604 11:18

Last Calibration: 950604 12:56

Compound No: 8

Compound Name: C030 METHYLENE CHLORIDE

Scan Number: 117

Retention Time: 7.31 min.

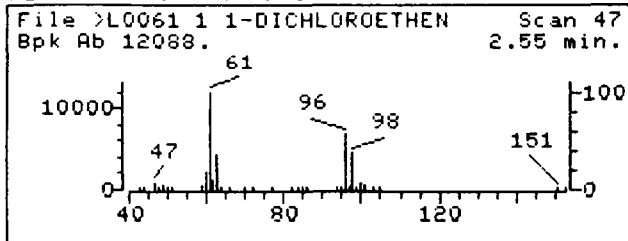
Quant Ion: 84.0

Area: 929

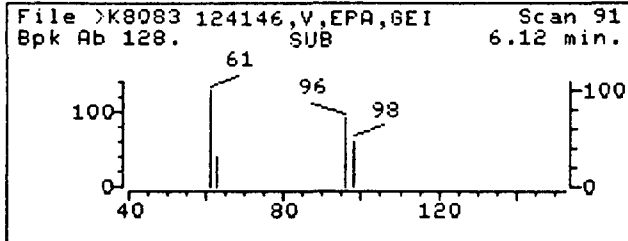
Concentration: 1.29 UG/L

q-value: 76

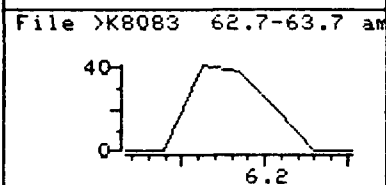
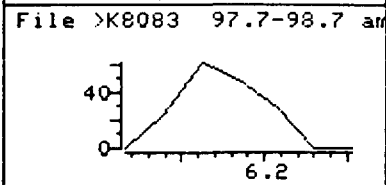
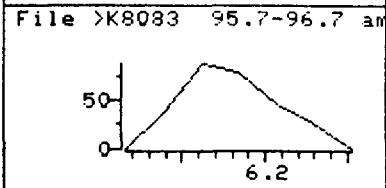
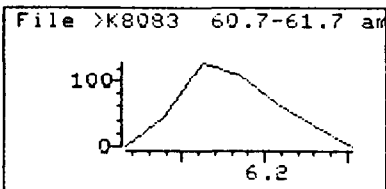
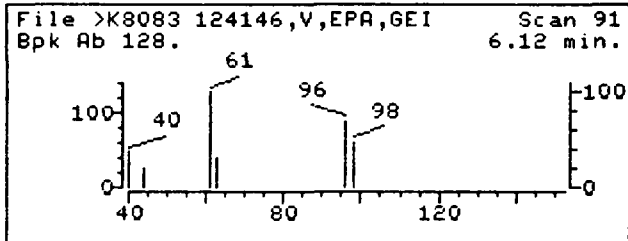
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8083::L2

Quant Output File: ^K8083::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD 1423,,92113-0W2D-0595,L,W,ALS1 1:10 TOM .019

Quant Time: 950604 12:57

Quant ID File: KVOAID::DB

Injected at: 950604 11:18

Last Calibration: 950604 12:56

Compound No: 11

Compound Name: C045 1,1-DICHLOROETHENE

Scan Number: 91

Retention Time: 6.12 min.

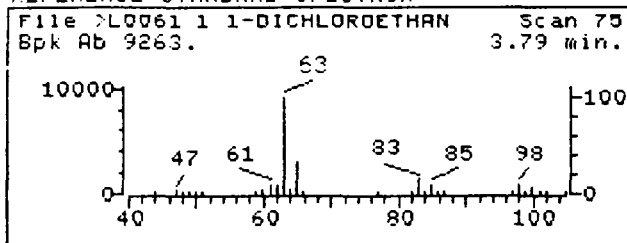
Quant Ion: 96.0

Area: 768

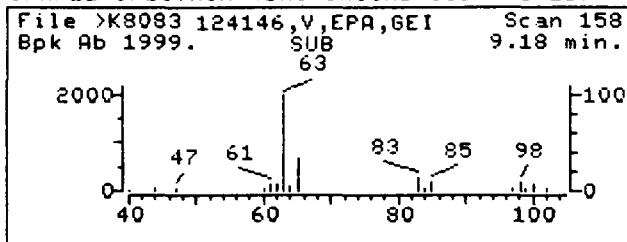
Concentration: 1.28 UG/L

q-value: 78

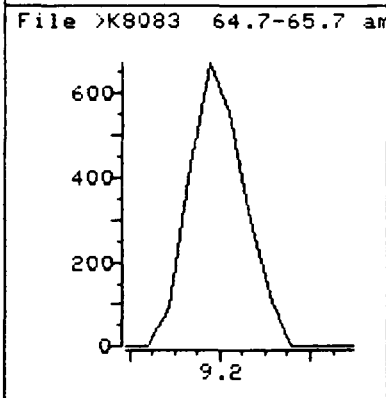
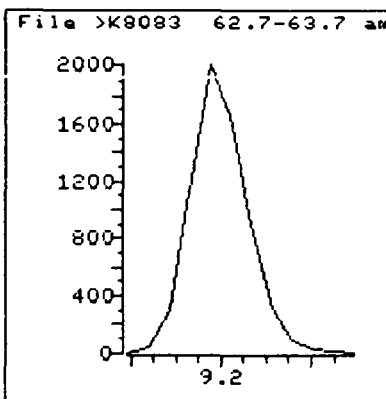
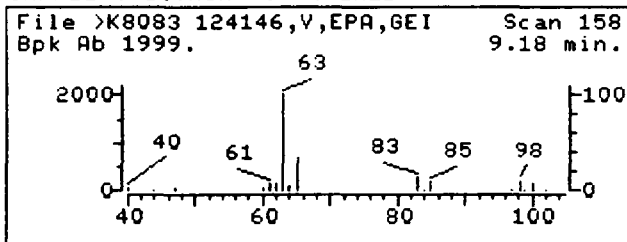
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8083::L2

Quant Output File: ^K8083::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD 1423,,92113-0W2D-0595,L,W,ALS1 1:10 TOM .019

Quant Time: 950604 12:57

Quant ID File: KVOAID::DB

Injected at: 950604 11:18

Last Calibration: 950604 12:56

Compound No: 12

Compound Name: C050 1,1-DICHLOROETHANE

Scan Number: 158

Retention Time: 9.18 min.

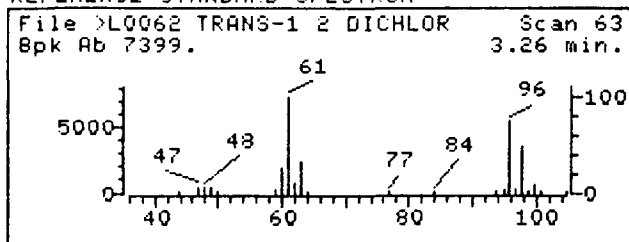
Quant Ion: 63.0

Area: 17654

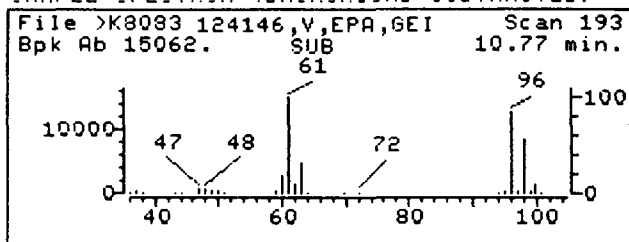
Concentration: 15.25 UG/L

q-value: 95

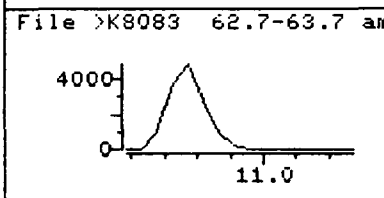
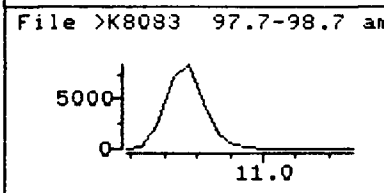
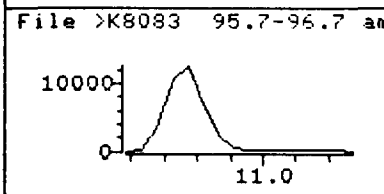
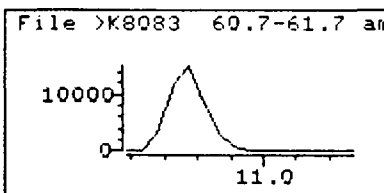
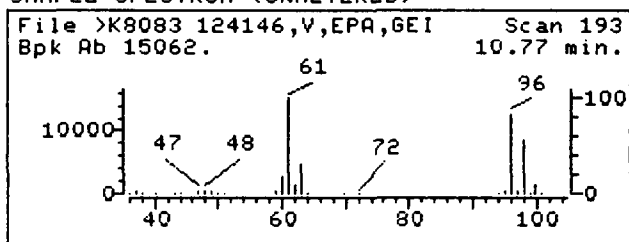
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8083::L2

Quant Output File: ^K8083::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD 1423,,92113-0W2D-0595,L,W,ALS1 1:10 TOM .019

Quant Time: 950604 12:57

Quant ID File: KVOAID::DB

Injected at: 950604 11:18

Last Calibration: 950604 12:56

Compound No: 17

Compound Name: C053 TOTAL-1,2-DICHLOROETHENE

Scan Number: 193

Retention Time: 10.77 min.

Quant Ion: 96.0

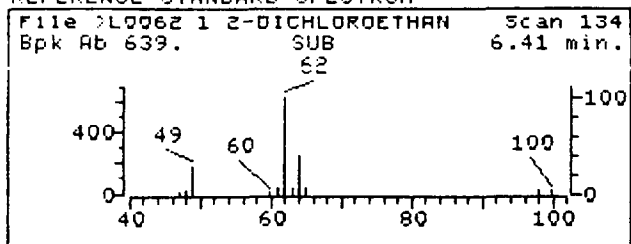
Area: 101551

Concentration: 120.09 UG/L

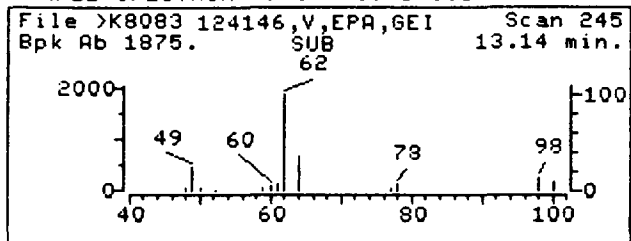
q-value: 85

✓ JK. 2/12
NO TRANS 1,2-D2 =

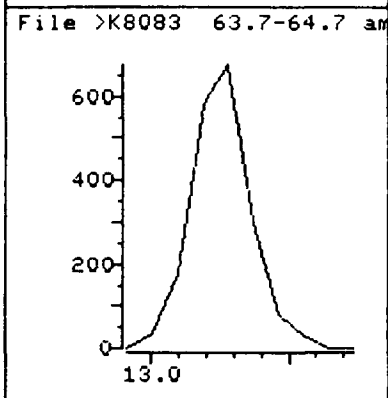
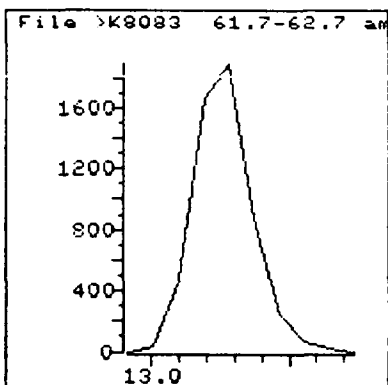
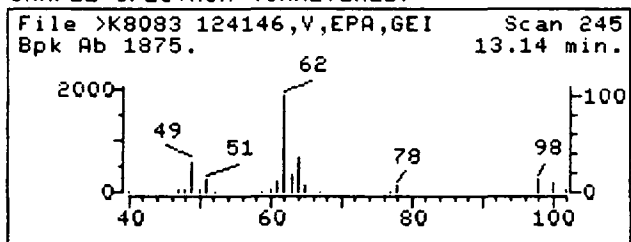
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8083::L2

Quant Output File: ^K8083::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD 1423,,92113-0W2D-0595,L,W,ALS1 1:10 TOM .019

Quant Time: 950604 12:57

Quant ID File: KVOAID::DB

Injected at: 950604 11:18

Last Calibration: 950604 12:56

Compound No: 19

Compound Name: C065 1,2-DICHLOROETHANE

Scan Number: 245

Retention Time: 13.14 min.

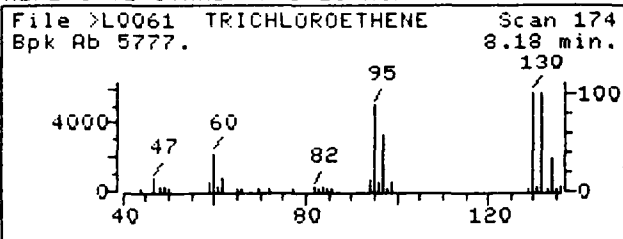
Quant Ion: 62.0

Area: 14403

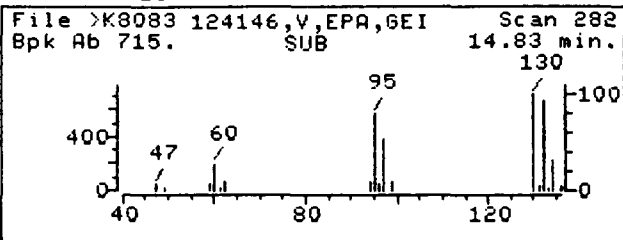
Concentration: 16.82 UG/L

q-value: 89

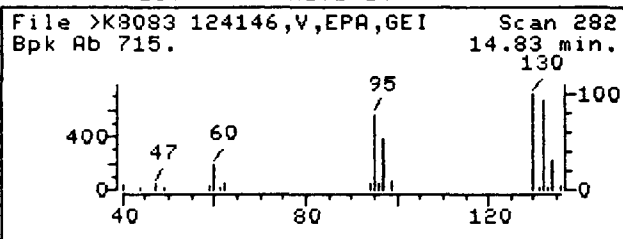
REFERENCE STANDARD SPECTRUM



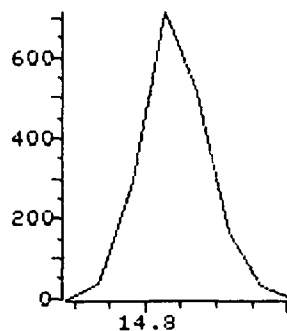
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



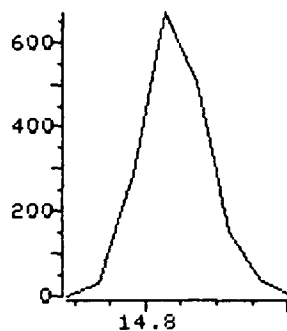
SAMPLE SPECTRUM (UNALTERED)



File >K8083 129.7-130.7



File >K8083 131.7-132.7



Data File: >K8083::L2

Quant Output File: ^K8083::K2

Name: 124146,V,EPA,GEI

Misc: CLP,FD 1423,,92113-0W2D-0595,L,W,ALS1 1:10 TOM .019

Quant Time: 950604 12:57

Quant ID File: KUDRID::DB

Injected at: 950604 11:18

Last Calibration: 950604 12:56

Compound No: 32

Compound Name: C150 TRICHLOROETHENE

Scan Number: 282

Retention Time: 14.83 min.

Quant Ion: 130.0

Area: 4788

Concentration: 3.67 UG/L

q-value: 96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

72113RDD

Lab Name: CANBRO

Contract: GEI

Lab Code: CANBRO

Case No.

FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124049

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K0000

Level: (low/mod) LOW

Date Received: 05/25/95

% Moisture: not det

Date Analyzed: 06/01/95

GC Column: CAP 10: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	g
74-87-3	Chloromethane	10	10
74-83-9	Bromomethane	10	10
75-01-4	Methyl Chloride	10	10
75-06-3	Chloroethane	10	10
75-09-2	1,1-Dichloroethane	10	10
57-84-1	Acetone	10	10
75-15-0	Carbon Disulfide	10	10
75-28-4	1,1-Dichloroethene	10	10
75-34-3	1,1-Dichloroethane	10	10
540-82-0	1,1,2-Dichloroethane (total)	10	10
67-66-0	Chloroform	10	10
107-06-2	1,2-Dichloroethane	10	10
78-43-3	2-Butanone	10	10
71-25-3	1,1,1-Trichloroethane	10	10
54-20-5	Carbon Tetrachloride	10	10
75-37-4	Bromodichloromethane	10	10
75-87-5	1,2-Dichloropropane	10	10
10061-01-5	cis-1,3-Dichloropropene	10	10
79-01-6	Trichloroethene	10	10
124-48-1	Dibromochloromethane	10	10
79-00-5	1,1,2-Trichloroethane	10	10
71-43-2	Benzene	10	10
10061-02-6	trans-1,3-Dichloropropene	10	10
75-25-2	Bromoform	10	10
108-10-1	4-Methyl-2-Pentanone	10	10
591-78-6	2-Hexanone	10	10
127-18-4	Tetrachloroethene	10	10
79-34-5	1,1,2,2-Tetrachloroethane	10	10
108-88-3	Toluene	10	10
108-90-7	Chlorobenzene	10	10
100-41-4	Ethylbenzene	10	10
100-42-5	Styrene	10	10
1330-20-7	Xylene (total)	10	10

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

92113RDD

Lab Name: CAMBRD

Contract: CEI

Lab Code: CAMBRD

Case No.: F01423

SAS No.:

SDE No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124049

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K8000

Level: (low/med) LOW

Date Received: 05/25/95

% Moisture: not det.

Date Analyzed: 06/01/95

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Mass spectrum plot showing relative intensity versus mass-to-charge ratio (m/z). The x-axis ranges from 10 to 70, and the y-axis ranges from 0 to 100,000. Major peaks are labeled with their m/z values: 15, 31, 43, 55, 69, and 81. The peak at m/z 81 is the base peak with 100% relative intensity.

m/z	Relative Intensity (%)
15	~10
31	~10
43	~15
55	~40
69	~60
81	100

File: RELATIVE GRAMMIC ANALYSIS, HIST=HPS9700
Last Calibration: 4/20/01 14:46

Operator ID: 0005
 Burnt Time: 950601 19:44
 Injected At: 950601 19:08

LABOR REPORT

Operator: J. J. Duggan Quant. Rev: 6 Agent: Silver 950001 10000
 Date Filed: 10-10-10 Rejected at: 25-10-10 10:00
 Date Filed: 10-10-10 Dilution Factor: 1.0000
 Name: 104042, B, 1, 6E1
 Age: 019, 001423, 92113-00-0-0575, L, A, ALSB SHL 3PF 101010

File: KU0010-100
 Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
 At Calibration: 950001 10:00

	Compound	R.T.	Q. ion	Area	Conc	Units	q
1	0101 BROMOCHLOROMETHANE IS-1	11.48	128.0	33581	50.00	UG/L	96
2	0105 1,1,2,2-DICHLOROETHANE SS1	12.99	65.0	35059	51.96	UG/L	99
3	0110 1,4-DIFLUOROBENZENE IS-2	14.21	114.0	161630	50.00	UG/L	100
4	0120 05-CHLOROBENZENE IS-3	22.00	117.0	128217	50.00	UG/L	100
5	0205 0-8 TOLUENE (SS-2)	18.13	98.0	127225	48.97	UG/L	89
6	0310 BROMOFLUOROBENZENE (SS-3)	25.32	174.0	73488	48.67	UG/L	94

Compound is ISTD

3C. STANDARDS DATA

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CAMBERG

Contract: GEI

Lab Code: CAMBERG

Case No.: FD1423

SAS No.:

SDG No.:

Instrument ID: HP5970K

Calibration Date(s): 05/31/95

05/31/95

Heated Purge: (Y/N): N

Calibration Times: 1159

1722

GC Column: CAP

ID: 0.530 (mm)

LAB FILE ID:		RRF10 = K7972			RRF20 = K7971		
RRF50= K7967		RRF100= K7970			RRF200= K7969		
COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	% RSD
Chloromethane		0.176	0.154	0.184	0.151	0.193	9.21
Bromomethane	*	0.587	0.579	0.448	0.472	0.352	20.1*
Vinyl Chloride	*	0.296	0.275	0.296	0.288	0.327	6.5*
Chloroethane		0.267	0.288	0.264	0.288	0.222	10.11
Methylene Chloride		0.929	0.878	0.875	0.930	0.896	3.01
Acetone		0.134	0.120	0.121	0.131	0.122	4.51
Carbon Disulfide		1.524	1.551	1.649	1.853	1.867	9.71
1,1-Dichloroethane	*	0.705	0.678	0.728	0.779	0.798	6.7*
1,1-Dichloroethane	*	1.446	1.386	1.408	1.520	1.512	4.1*
1,2-Dichloroethane (total)		1.024	0.975	1.025	1.082	1.102	4.91
Chloroform	*	1.950	1.883	1.984	2.074	2.096	4.4*
1,2-Dichloroethane	*	1.067	0.993	1.021	1.088	1.081	3.8*
2-Butanone		0.258	0.249	0.233	0.266	0.242	5.21
1,1,1-Trichloroethane	*	0.388	0.377	0.397	0.432	0.416	5.5*
Carbon Tetrachloride	*	0.411	0.392	0.430	0.461	0.440	5.8*
Bromodichloromethane	*	0.463	0.448	0.485	0.509	0.485	4.9*
1,2-Dichloropropane		0.256	0.241	0.240	0.253	0.256	3.21
cis-1,3-Dichloropropene	*	0.307	0.309	0.341	0.364	0.359	8.0*
Trichloroethane	*	0.414	0.389	0.402	0.434	0.422	4.2*
Dibromochloroethane	*	0.548	0.547	0.573	0.637	0.579	6.3*
1,1,2-Trichloroethane	*	0.277	0.260	0.264	0.280	0.262	3.4*
Benzene	*	0.592	0.558	0.565	0.607	0.573	3.5*
trans-1,3-Dichloropropene	*	0.283	0.286	0.317	0.354	0.342	10.1*
Bromoform	*	0.413	0.413	0.434	0.510	0.456	9.1*
4-Methyl-2-Pentanone		0.212	0.202	0.195	0.218	0.204	4.31
2-Hexanone		0.120	0.125	0.123	0.142	0.136	7.31
Tetrachloroethene	*	0.481	0.470	0.484	0.505	0.506	3.2*
1,1,2,2-Tetrachloroethane	*	0.492	0.474	0.447	0.511	0.451	5.7*
Toluene	*	1.012	0.939	0.952	0.966	0.975	2.9*
Chlorobenzene	*	0.912	0.870	0.869	0.923	0.901	2.7*
Ethylbenzene	*	0.387	0.374	0.366	0.394	0.396	3.4*
Styrene	*	0.796	0.771	0.792	0.816	0.789	2.0*
Xylene (total)	*	0.481	0.454	0.462	0.490	0.470	3.1*
Toluene-d8		0.893	0.987	0.995	0.996	1.003	4.81
Bromofluorobenzene		0.561	0.621	0.604	0.647	0.640	5.61
1,2-Dichloroethane-d4		0.871	0.970	0.951	0.993	0.968	4.91

* Compounds with required minimum RRF and maximum %RSD values.

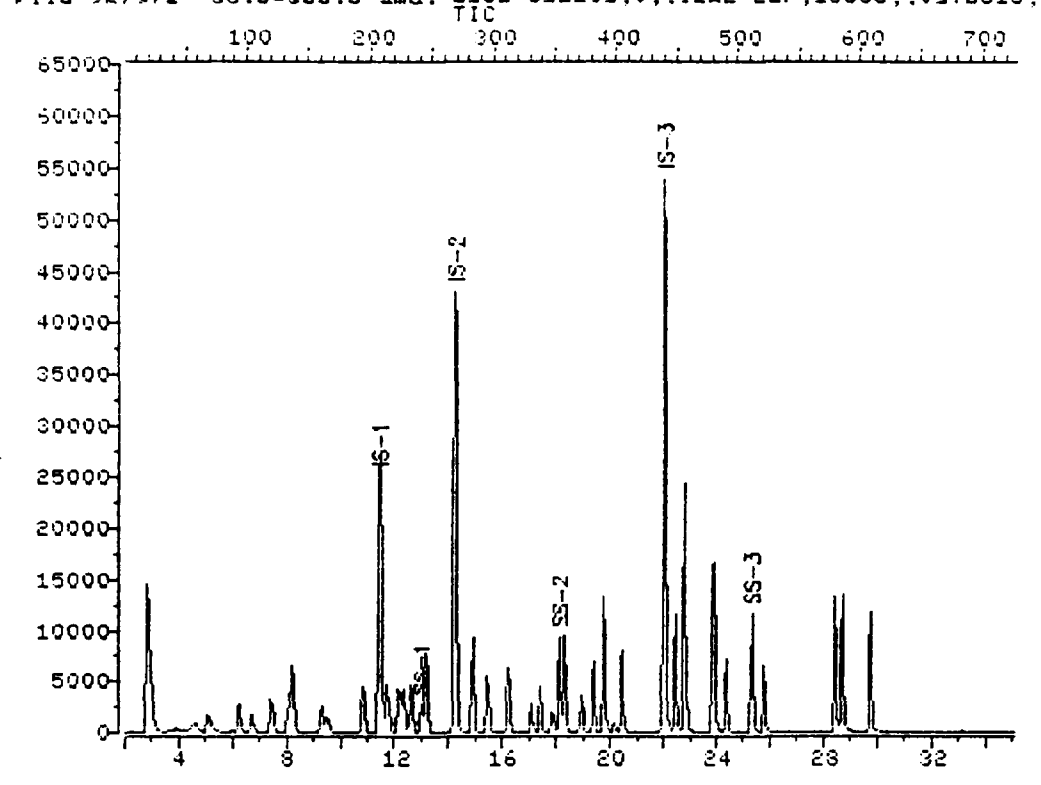
All other compounds must meet a minimum RRF of 0.010.

FORM VI VOA

3/90
30146

TOTAL ION CHROMATOGRAM

File: >K7972 35.0-300.0 mV, 6302-052295.U, ICAL CLP,10000,,VSTD010.L



Data File: >K7972::K1

Quant Output File: ^K7972::K2

Name: 6302-052295.U, ICAL

Misc: CLP,10000,,VSTD010.L,A,ALS9 1UL/5ML JPT

Id File: K00AID::DB

Title: VOLATILE ORGANIC ANALYSIS. INST=HP5970K

Last Calibration: 950530 17:49

Operator ID: DOUG

Quant Time: 950531 17:53

Injected at: 950531 17:22

QUANT REPORT

Operator ID: DOUG Quant Rev: 6 Quant Time: 950531 17:58
 Out File: ^K7972::K2 Injected at: 950531 17:22
 In File: >K7972::K1 Dilution Factor: 1.00000
 ne: 6302-052295,U,,ICAL
 s : CLP,10000,,VSTD010,L,A,ALS9 1UL/5ML JPT

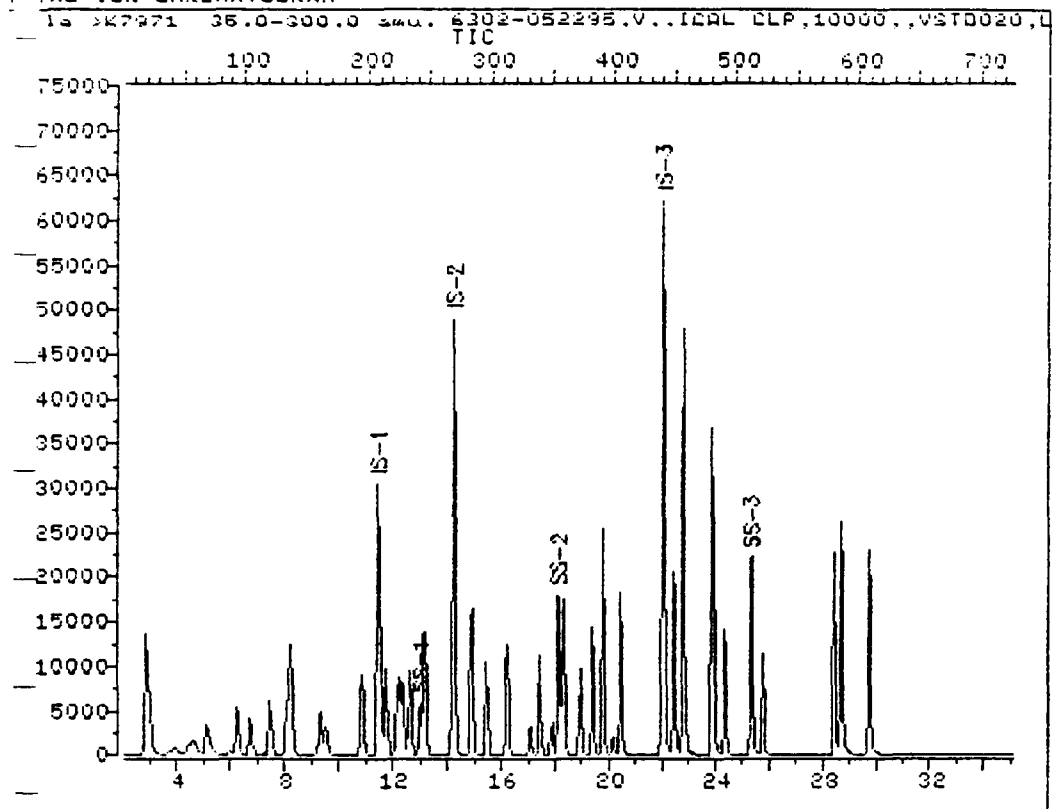
File: KVOAID::DB
 Name: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
 Calibration: 950530 17:49

	Compound	R.T.	Q ion	Area	Conc	Units	q
---	---	---	---	---	---	---	---
---	*CI01 BROMOCHLOROMETHANE IS-1	11.44	128.0	38548	50.00	UG/L	97
---	C010 CHLOROMETHANE	3.74	50.0	1356	11.25	UG/L	100
---	C015 BROMUMETHANE	4.60	94.0	4521	10.37	UG/L	90
---	C020 VINYL CHLORIDE	3.92	62.0	2280	9.71	UG/L	96
---	C025 CHLOROETHANE	4.74	64.0	2053M*	9.51	UG/L	99
---	CXXX TRICHLOROFLUOROMETHANE	5.10	101.0	9510	9.37	UG/L	99
---	C071 ACROLEIN	5.97	56.0	1169	91.12	UG/L	87
---	C030 METHYLENE CHLORIDE	7.43	84.0	7153	10.68	UG/L	75
---	C035 ACETONE	6.33	43.0	1030	10.42	UG/L	99
---	C040 CARBON DISULFIDE	6.70	76.0	11736	8.52	UG/L	100
---	C045 1,1-DICHLOROETHENE	6.24	96.0	5432	9.59	UG/L	81
---	C050 1,1-DICHLOROETHANE	9.29	63.0	11132	10.23	UG/L	96
---	C176 METHYL-T-BUTYL-ETHER	8.25	73.0	13039	10.29	UG/L	96
---	C074 ACRYLONITRILE	8.06	53.0	9241	98.67	UG/L	91
---	C051 TRANS-1,2-DICHLOROETHENE	8.20	96.0	7224	9.67	UG/L	93
---	C055 CIS-1,2-DICHLOROETHENE	10.84	96.0	8566	9.96	UG/L	77
---	C053 TOTAL-1,2-DICHLOROETHENE	10.84	96.0	15786M*	19.63	UG/L	77
---	C060 CHLOROFORM	11.75	83.0	15016	9.58	UG/L	97
---	C065 1,2-DICHLOROETHANE	13.21	62.0	8216	10.13	UG/L	93
---	CS15 D4-1,2-DICHLOROETHANE SS1	12.98	65.0	6707	8.31	UG/L	94
---	C110 2-BUTANONE (MEK)	10.89	43.0	1985M*	12.03	UG/L	
---	C198 TETRAHYDROFURAN	11.62	42.0	897	9.73	UG/L	98
---	C199 CYCLOHEXANE	12.35	56.0	8774	10.53	UG/L	97
---	*CI10 1,4-DIFLUOROBENZENE IS-2	14.21	114.0	155508	50.00	UG/L	100
---	C115 1,1,1-TRICHLOROETHANE	12.16	97.0	12109	9.25	UG/L	73
---	C120 CARBON TETRACHLORIDE	12.62	117.0	12819	9.33	UG/L	91
---	C125 VINYL ACETATE	9.52	43.0	9993	10.74	UG/L	96
---	C130 BROMODICHLOROMETHANE	16.22	83.0	14456	9.60	UG/L	98
---	C140 1,2-DICHLOROPROPANE	15.45	63.0	7995	11.13	UG/L	98
---	CZZZ 2-CHLOROETHYL VINYLETHER	17.09	63.0	3929	9.91	UG/L	100
---	C143 CIS-1,3-DICHLOROPROPENE	17.45	75.0	10134	9.76	UG/L	96
---	C150 TRICHLOROETHENE	14.90	130.0	12918	10.71	UG/L	93
---	C155 DIBROMOCHLOROMETHANE	20.46	129.0	17088	9.63	UG/L	98
---	C160 1,1,2-TRICHLOROETHANE	19.41	97.0	8637	10.70	UG/L	93
---	C165 BENZENE	13.17	78.0	18481	10.99	UG/L	100
---	C172 TRANS-1,3-DICHLOROPROPENE	18.95	75.0	8273	8.38	UG/L	92
---	C180 BROMOFORM	24.38	173.0	12871	9.40	UG/L	85
---	*CI20 D5-CHLOROBENZENE IS-3	22.01	117.0	126153	50.00	UG/L	100
---	C205 4-METHYL-2-PENTANONE	17.86	43.0	5344	11.50	UG/L	97
---	C210 2-HEXANONE (MPK)	20.14	45.0	3023	10.10	UG/L	89
---	C220 TETRACHLOROETHYLENE	19.77	164.0	12128	10.35	UG/L	88
---	C225 1,1,2,2-TETRACHLOROETHANE	25.79	83.0	12400	10.92	UG/L	86
---	CS05 D-3 TOLUENE (SS-2)	18.13	98.0	22509	8.75	UG/L	92

	Compound	R.T.	Q ion	Area	Conc	Units	q
)	C230 TOLUENE	18.32	91.0	25492	11.06	UG/L	94
)	C235 CHLOROBENZENE	22.10	112.1	22989	10.76	UG/L	87
)	C240 ETHYL BENZENE	22.46	106.0	9759	10.77	UG/L	99
)	CS10 BROMOFLUOROBENZENE (SS-3)	25.33	174.0	14125	8.78	UG/L	93
)	C245 STYRENE	23.92	104.1	20050	10.28	UG/L	69
)	M+P XYLENES	22.78	106.2	26616	21.12	UG/L	99
)	O-XYLENE	23.87	106.0	12125	10.59	UG/L	93
)	C250 TOTAL XYLENES	23.87	106.0	12125	10.59	UG/L	93
)	CYYY 1,3-DICHLOROBENZENE	28.43	146.0	23221	10.74	UG/L	84
)	CUVV 1,4-DICHLOROBENZENE	28.70	146.0	25080	10.65	UG/L	86
)	CWWW 1,2-DICHLOROBENZENE	29.75	146.0	22622	11.48	UG/L	91

Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >K7971::K1

Quant Output File: ^K7971::K2

Name: 6302-052295,U.,ICAL

Misc: CLP,10000.,VSTD020,L,A,ALS8 2UL/5ML JPT

Id File: KUDATD::DB

Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K

Last Calibration: 950530 17:49

Operator ID: DOUG

Quant Time: 950531 17:18

Injected at: 950531 16:43

QUANT REPORT

erator ID: DOUG Quant Rev: 6 Quant Time: 950531 17:18
 tput File: ^K7971::K2 Injected at: 950531 16:43
 ta File: >K7971::K1 Dilution Factor: 1.00000
 ne: 6302-052295,U,,ICAL
 sc: CLP,10000,,USTD020,L,A,ALS8 2UL/5ML JPT

File: KVOAID::DB
 tle: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
 st Calibration: 950530 17:49

Compound	R.T.	Q	ion	Area	Conc	Units	q

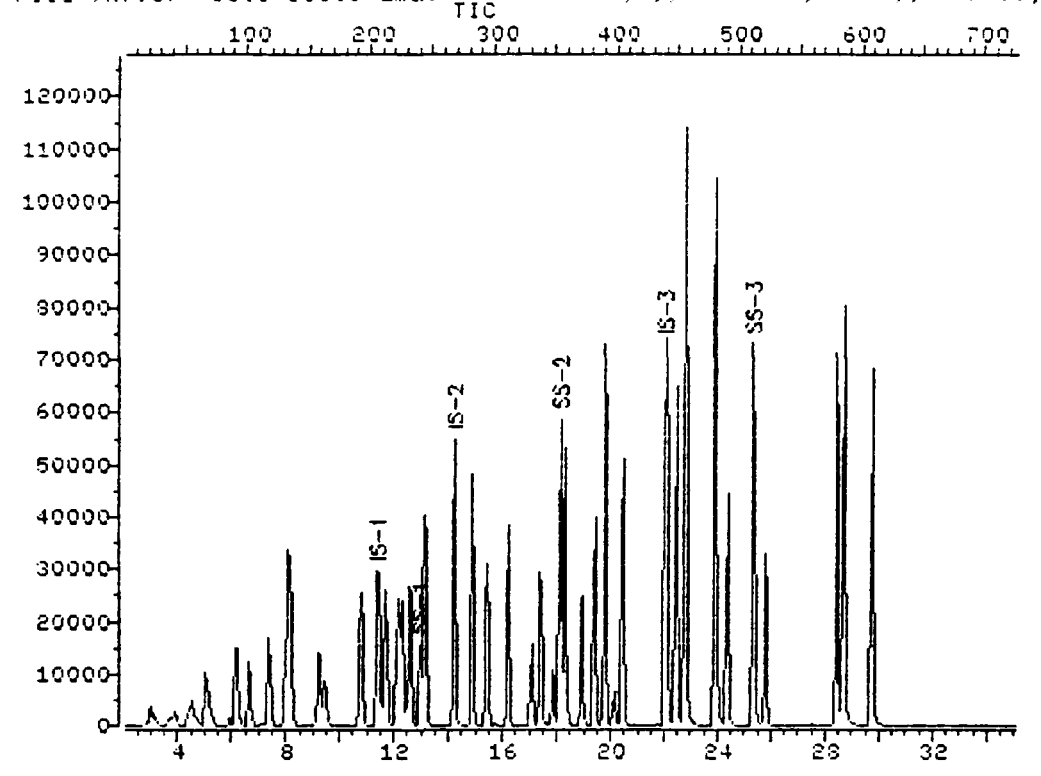
) *CI01 BROMOCHLOROMETHANE IS-1	11.46	128.0		39541	50.00	UG/L	96
) C010 CHLOROMETHANE	3.76	50.0		2430	19.66	UG/L	100
) C015 BROMUMETHANE	4.62	94.0		9147	20.45	UG/L	99
) C020 VINYL CHLORIDE	3.94	62.0		4341	18.02	UG/L	99
) C025 CHLOROETHANE	4.67	64.0		4549	20.54	UG/L	91
) CXXX TRICHLOROFLUOROMETHANE	5.12	101.0		20259	19.46	UG/L	96
) C071 ACROLEIN	5.99	56.0		2428	184.51	UG/L	96
) C030 METHYLENE CHLORIDE	7.45	84.0		13877	20.19	UG/L	72
) C035 ACETONE	6.35	43.0		2056	20.28	UG/L	97
) C040 CARBON DISULFIDE	6.72	76.0		24504	17.35	UG/L	100
) C045 1,1-DICHLOROETHENE	6.22	96.0		10706	18.43	UG/L	74
) C050 1,1-DICHLOROETHANE	9.32	63.0		21895	19.62	UG/L	94
) C176 METHYL-T-BUTYL-ETHER	8.22	73.0		25843	19.89	UG/L	95
) C074 ACRYLONITRILE	8.04	53.0		18817	195.86	UG/L	92
) C051 TRANS-1,2-DICHLOROETHENE	8.18	96.0		14614	19.07	UG/L	87
) C055 CIS-1,2-DICHLOROETHENE	10.86	96.0		16244	18.42	UG/L	88
) C053 TOTAL-1,2-DICHLOROETHENE	10.86	96.0		30848M	37.40	UG/L	88
) C060 CHLOROFORM	11.73	83.0		29754	18.51	UG/L	92
) C065 1,2-DICHLOROETHANE	13.19	62.0		15691	18.87	UG/L	91
) CS15 D4-1,2-DICHLOROETHANE SS1	13.01	65.0		15333	18.52	UG/L	91
) C110 2-BUTANONE (MEK)	10.91	43.0		3930	23.22	UG/L	86
) C198 TETRAHYDROFURAN	11.59	42.0		2026	21.42	UG/L	95
) C199 CYCLOHEXANE	12.37	56.0		17160	20.08	UG/L	99
) *CI10 1,4-DIFLUOROBENZENE IS-2	14.24	114.0		162605	50.00	UG/L	100
) C115 1,1,1-TRICHLOROETHANE	12.19	97.0		24580	17.96	UG/L	74
) C120 CARBON TETRACHLORIDE	12.64	117.0		25949	18.06	UG/L	94
) C125 VINYL ACETATE	9.50	43.0		20038	20.60	UG/L	93
) C130 BROMODICHLOROMETHANE	16.24	83.0		29204	18.54	UG/L	94
) C140 1,2-DICHLOROPROPANE	15.47	63.0		15709	20.91	UG/L	99
) C222 2-CHLOROETHYL VINYLETHER	17.11	63.0		5399	13.03	UG/L	100
) C143 CIS-1,3-DICHLOROPROPENE	17.43	75.0		21318	19.63	UG/L	96
) C150 TRICHLOROETHENE	14.92	130.0		25335	20.08	UG/L	93
) C155 DIBROMOCHLOROMETHANE	20.43	129.0		35685	19.22	UG/L	96
) C160 1,1,2-TRICHLOROETHANE	19.39	97.0		16983	20.12	UG/L	96
) C165 BENZENE	13.14	78.0		36361	20.69	UG/L	100
) C172 TRANS-1,3-DICHLOROPROPENE	18.93	75.0		17499	16.95	UG/L	95
) C180 BROMOFORM	24.35	173.0		26925	18.81	UG/L	86
) *CI20 D5-CHLOROBENZENE IS-3	22.03	117.0		129741	50.00	UG/L	100
) C205 4-METHYL-2-PENTANONE	17.88	43.0		10501	21.97	UG/L	96
) C210 2-HEXANONE (MPK)	20.16	43.0		6507	21.13	UG/L	89
) C220 TETRACHLOROETHYLENE	19.80	164.0		24437	20.28	UG/L	96
) C225 1,1,1,2,2-TETRACHLOROETHANE	25.81	63.0		24367	21.13	UG/L	85
) C805 D-8 TOLUENE (SS-2)	18.11	98.0		51314	19.40	UG/L	90

	Compound	R.T.	Q ion	Area	Conc	Units	q
)	C230 TOLUENE	18.29	91.0	48835	20.60	UG/L	98
)	C235 CHLOROBENZENE	22.12	112.1	45240	20.58	UG/L	90
)	C240 ETHYL BENZENE	22.44	106.0	19431	20.85	UG/L	95
)	C510 BROMOFLUOROBENZENE (SS-3)	25.31	174.0	32305	19.52	UG/L	72
)	C245 STYRENE	23.94	104.1	40101	20.00	UG/L	66
)	M+P XYLENES	22.80	106.2	53586	41.34	UG/L	97
)	O-XYLENE	23.90	106.0	23620	20.06	UG/L	94
)	C250 TOTAL XYLENES	23.90	106.0	23620	20.06	UG/L	94
)	CYYY 1,3-DICHLOROBENZENE	28.41	146.0	46312	20.82	UG/L	78
)	CVVU 1,4-DICHLOROBENZENE	28.68	146.0	48872	20.18	UG/L	84
)	CWWW 1,2-DICHLOROBENZENE	29.73	146.0	43485	21.45	UG/L	83

Compound is ISTD

TOTAL ION CHROMATOGRAM

File >K7967 35.0-300.0 amu. 6302-052295,V,,CAL CLP,10000,,VSTD0050,L



Data File: >K7967::K1

Quant Output File: ^K7967::K2

Name: 6302-052295,V,,CAL

Misc: CLP,10000,,VSTD0050,L,W,ALS7 5UL/5ML JPT

Id File: KVOAID::DB

Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K

Last Calibration: 950530 17:49

Operator ID: DOUG

Quant Time: 950531 12:35

Injected at: 950531 11:59

QUANT REPORT

erator ID: DOUG

Quant Rev: 6

Quant Time: 950601 09:47

Out File: ^K7967::K2

Injected at: 950531 11:59

File: >K7967::K1

Dilution Factor: 1.00000

ne: 6302-052295,U,,CAL

CLP,10000,,VSTD050,L,W,ALS7 5UL/5ML JPT

File: KUOAID::DB

File: VOLATILE ORGANIC ANALYSIS, INST=HP5970K

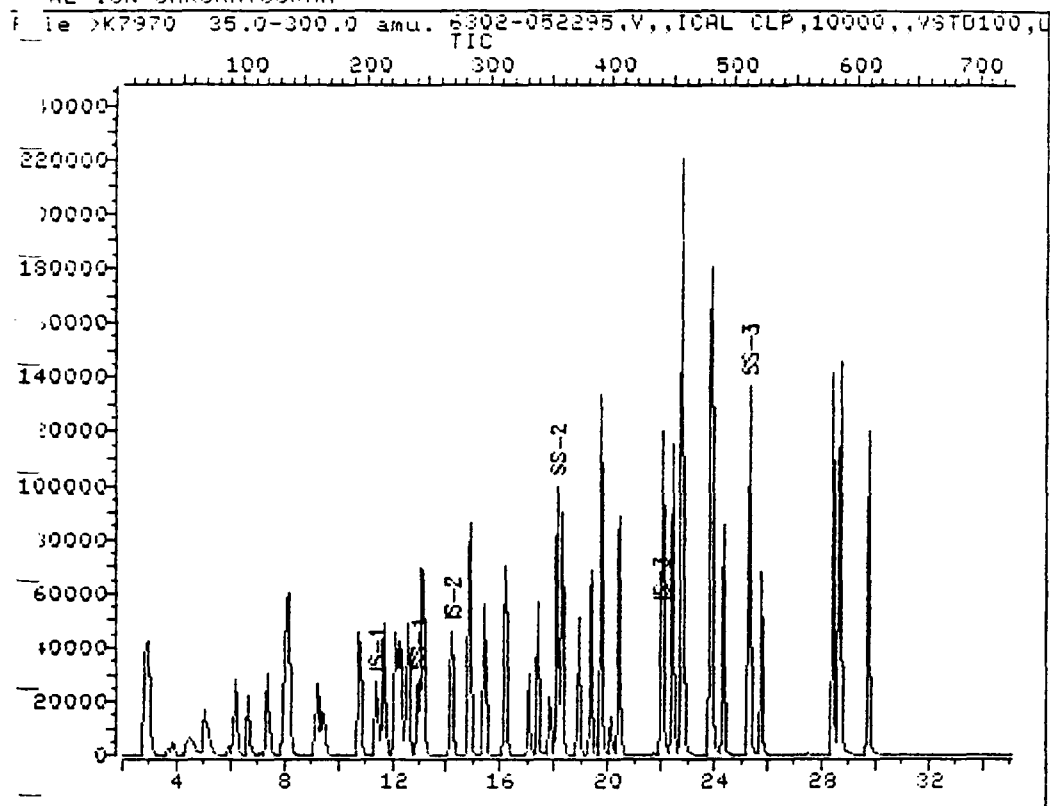
Calibration: 950531 18:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
*CI01	BROMOCHLOROMETHANE IS-1	11.38	128.0	43414	50.00	UG/L	97
C010	CHLOROMETHANE	3.72	50.0	7994	50.00	UG/L	100
C015	BROMOMETHANE	4.49	94.0	19453	50.00	UG/L	98
C020	VINYL CHLORIDE	3.90	62.0	12865	50.00	UG/L	99
C025	CHLOROETHANE	4.72	64.0	11447M*	50.00	UG/L	95
CXXX	TRICHLOROFLUOROMETHANE	5.04	101.0	55711	50.00	UG/L	94
C071	ACROLEIN	5.91	56.0	5914	500.00	UG/L	94
C030	METHYLENE CHLORIDE	7.37	84.0	37968	50.00	UG/L	70
C035	ACETONE	6.27	43.0	5236	50.00	UG/L	99
C040	CARBON DISULFIDE	6.64	76.0	71585	50.00	UG/L	100
C045	1,1-DICHLOROETHENE	6.13	96.0	316175M	50.00	UG/L	73
C050	1,1-DICHLOROETHANE	9.19	63.0	61121	50.00	UG/L	97
C176	METHYL-T-BUTYL-ETHER	8.14	73.0	66521	50.00	UG/L	96
C074	ACRYLONITRILE	7.96	53.0	46070	500.00	UG/L	89
C051	TRANS-1,2-DICHLOROETHENE	8.09	96.0	42496	50.00	UG/L	87
C055	CIS-1,2-DICHLOROETHENE	10.78	96.0	47239	50.00	UG/L	82
C053	TOTAL-1,2-DICHLOROETHENE	10.78	96.0	88967M*	100.00	UG/L	82
C060	CHLOROFORM	11.69	83.0	86105	50.00	UG/L	97
C065	1,2-DICHLOROETHANE	13.15	62.0	44734	50.00	UG/L	94
CS15	D4-1,2-DICHLOROETHANE SS1	12.92	65.0	41263	50.00	UG/L	90
C110	2-BUTANONE (MEK)	10.83	43.0	10123	50.00	UG/L	88
C198	TETRAHYDROFURAN	11.56	42.0	5103	50.00	UG/L	99
C199	CYCLOHEXANE	12.29	56.0	48034	50.00	UG/L	92
*CI10	1,4-DIFLUOROBENZENE IS-2	14.20	114.0	179226	50.00	UG/L	100
C115	1,1,1-TRICHLOROETHANE	12.10	97.0	71444	50.00	UG/L	73
C120	CARBON TETRACHLORIDE	12.56	117.0	76959	50.00	UG/L	89
C125	VINYL ACETATE	9.42	43.0	55012	50.00	UG/L	90
C130	BROMODICHLOROMETHANE	16.21	83.0	86745	50.00	UG/L	97
C140	1,2-DICHLOROPROPANE	15.43	63.0	42972	50.00	UG/L	91
CZZZ	2-CHLOROETHYL VINYLETHER	17.07	63.0	23198	50.00	UG/L	100
C143	CIS-1,3-DICHLOROPROPENE	17.39	75.0	64635	53.00	UG/L	94
C150	TRICHLOROETHENE	14.88	130.0	71947	50.00	UG/L	88
C155	DIBROMOCHLOROMETHANE	20.45	129.0	102527	50.00	UG/L	96
C160	1,1,2-TRICHLOROETHANE	19.40	97.0	47290	50.00	UG/L	99
C165	BENZENE	13.11	78.0	101220	50.00	UG/L	100
C172	TRANS-1,3-DICHLOROPROPENE	18.94	75.0	53279	47.00	UG/L	92
C180	BROMOFORM	24.36	173.0	77602	50.00	UG/L	85
*CI20	D5-CHLOROBENZENE IS-3	22.04	117.0	144574	50.00	UG/L	100
C205	4-METHYL-2-PENTANONE	17.85	43.0	28254	50.00	UG/L	98
C210	2-HEXANONE (NPK)	20.13	43.0	17859	50.00	UG/L	90
C220	TETRACHLOROETHYLENE	19.76	164.0	70126	50.00	UG/L	99
C225	1,1,2,2-TETRACHLOROETHANE	25.78	83.0	64852	50.00	UG/L	95
CS05	D-3 TOLUENE (SS-2)	18.12	98.0	144283	50.00	UG/L	88

	Compound	R.T.	Q ion	Area	Conc	Units	q
)	C230 TOLUENE	18.30	91.0	137982	50.00	UG/L	99
)	C235 CHLOROBENZENE	22.09	112.1	125957	50.00	UG/L	84
)	C240 ETHYL BENZENE	22.45	106.0	53023	50.00	UG/L	99
)	C510 BROMOFLUOROBENZENE (SS-3)	25.32	174.0	87523	50.00	UG/L	90
)	C245 STYRENE	23.91	104.1	114855	50.00	UG/L	70
)	M+P XYLENES	22.77	106.2	144646	100.00	UG/L	98
)	O-XYLENE	23.86	106.0	67004	50.00	UG/L	90
)	C250 TOTAL XYLENES	23.86	106.0	67004	50.00	UG/L	90
)	CYYY 1,3-DICHLOROBENZENE	28.42	146.0	125113	50.00	UG/L	83
)	CUUU 1,4-DICHLOROBENZENE	28.69	146.0	138556	50.00	UG/L	82
)	CWWW 1,2-DICHLOROBENZENE	29.74	146.0	116514	50.00	UG/L	89

Compound is ISTD

AL ION CHROMATOGRAM



Data File: >K7970::K1 Quant Output File: ^K7970::K2
 Name: 6302-052295.V.,ICAL
 Misc: CLP,10000.,VSTD100,L,A,ALS7 10UL/5ML JPT
 Id File: KVOAID::DB
 Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
 Last Calibration: 950530 17:49
 Operator ID: DOUG
 Quant Time: 950531 16:39
 Injected at: 950531 16:03

QUANT REPORT

erator ID: DOUG Quant Rev: 6 Quant Time: 950531 16:39
 put File: ^K7970::K2 Injected at: 950531 16:03
 ta File: >K7970::K1 Dilution Factor: 1.00000
 ne: 6302-052295,U,,ICAL
 sc: CLP,10000,,USTD100,L,A,ALS7 10UL/5ML JPT

File: KUDRID::DB
 e: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
 Calibration: 950530 17:49

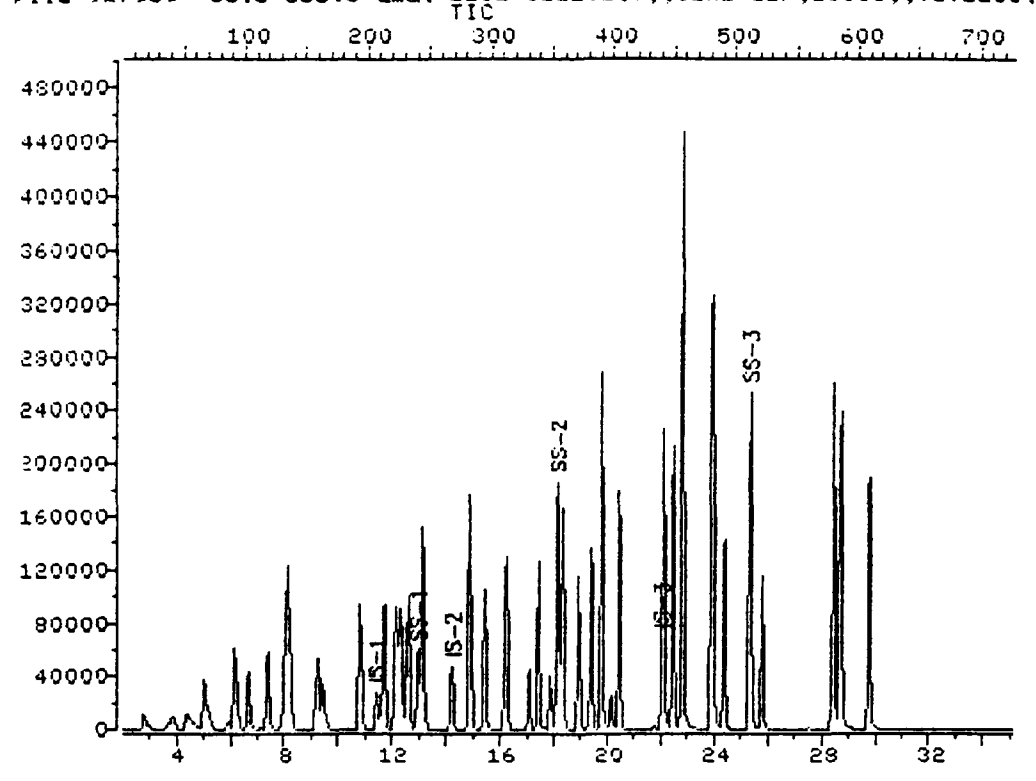
	Compound	R.T.	Q	ion	Area	Conc	Units	q
I	*CI01 BROMOCHLOROMETHANE IS-1	11.43	128.0		37313	50.00	UG/L	94
I	C010 CHLOROMETHANE	3.68	50.0		11984	102.74	UG/L	100
I	C015 BROMOMETHANE	4.46	94.0		35174	83.35	UG/L	98
I	C020 VINYL CHLORIDE	3.86	62.0		21489	94.55	UG/L	96
I	C025 CHLOROETHANE	4.68	64.0		21503	102.88	UG/L	94
I	CXXX TRICHLOROFLUOROMETHANE	5.05	101.0		99410	101.19	UG/L	94
I	C071 ACROLEIN	5.91	56.0		12716	1024.00	UG/L	97
I	C030 METHYLENE CHLORIDE	7.37	84.0		69384	106.99	UG/L	68
I	C035 ACETONE	6.28	43.0		9763	102.07	UG/L	97
I	C040 CARBON DISULFIDE	6.64	76.0		138247	103.74	UG/L	100
I	C045 1,1-DICHLOROETHENE	6.19	96.0		58134	106.04	UG/L	79
I	C050 1,1-DICHLOROETHANE	9.24	63.0		113415	107.72	UG/L	96
I	C176 METHYL-T-BUTYL-ETHER	8.15	73.0		124796	101.76	UG/L	96
I	C074 ACRYLONITRILE	8.01	53.0		98843	1090.28	UG/L	91
I	C051 TRANS-1,2-DICHLOROETHENE	8.10	96.0		76656	106.00	UG/L	81
I	C055 CIS-1,2-DICHLOROETHENE	10.79	96.0		85916	103.23	UG/L	81
I	C053 TOTAL-1,2-DICHLOROETHENE	10.79	96.0		161446	207.44	UG/L	81
I	C060 CHLOROFORM	11.70	83.0		154694	102.01	UG/L	95
I	C065 1,2-DICHLOROETHANE	13.16	62.0		81135	103.38	UG/L	96
I	CS15 D4-1,2-DICHLOROETHANE SS1	12.98	65.0		74071	94.80	UG/L	90
I	C110 2-BUTANONE (MEK)	10.84	43.0		19861	124.35	UG/L	89
I	C198 TETRAHYDROFURAN	11.56	42.0		10568	118.38	UG/L	96
I	C199 CYCLOHEXANE	12.29	56.0		86403	107.13	UG/L	91
I	*CI10 1,4-DIFLUOROBENZENE IS-2	14.21	114.0		152820	50.00	UG/L	100
I	C115 1,1,1-TRICHLOROETHANE	12.16	97.0		132303	102.87	UG/L	74
I	C120 CARBON TETRACHLORIDE	12.61	117.0		140945	104.36	UG/L	92
I	C125 VINYL ACETATE	9.42	43.0		108706	118.92	UG/L	89
I	C130 BROMODICHLOROMETHANE	16.21	83.0		155790	105.26	UG/L	95
I	C140 1,2-DICHLOROPROPANE	15.44	63.0		77430	109.69	UG/L	92
I	C222 2-CHLOROETHYL VINYLETHER	17.08	63.0		43908	112.73	UG/L	100
I	C143 CIS-1,3-DICHLOROPROPENE	17.40	75.0		117916	115.56	UG/L	95
I	C150 TRICHLOROETHENE	14.89	130.0		132681	111.91	UG/L	93
I	C155 DIBROMOCHLOROMETHANE	20.45	129.0		194912	111.72	UG/L	95
I	C160 1,1,2-TRICHLOROETHANE	19.40	97.0		85620	107.92	UG/L	95
I	C165 BENZENE	13.11	78.0		185635	112.37	UG/L	100
I	C172 TRANS-1,3-DICHLOROPROPENE	18.90	75.0		101769	104.37	UG/L	93
I	C180 BROMOFORM	24.37	173.0		156114	116.05	UG/L	83
I	*CI20 D5-CHLOROBENZENE IS-3	22.00	117.0		124689	50.00	UG/L	100
I	C205 4-METHYL-2-PENTANONE	17.85	43.0		54448	118.54	UG/L	98
I	C210 2-HEXANONE (MPK)	20.13	43.0		35578	120.22	UG/L	85
I	C220 TETRACHLOROETHYLENE	19.77	164.0		126353	109.13	UG/L	97
I	C225 1,1,2,2-TETRACHLOROETHANE	25.79	83.0		127695	113.79	UG/L	95
I	CS05 D-8 TOLUENE (SS-2)	18.13	98.0		249010	97.97	UG/L	90

	Compound	R.T.	Q ion	Area	Conc	Units	q
)	C230 TOLUENE	18.31	91.0	241567	106.00	UG/L	99
)	C235 CHLOROBENZENE	22.09	112.1	230827	109.28	UG/L	87
)	C240 ETHYL BENZENE	22.46	106.0	98386	109.85	UG/L	93
)	CS10 BROMOFLUOROBENZENE (SS-3)	25.33	174.0	161700	101.66	UG/L	98
)	C245 STYRENE	23.92	104.1	203943	105.84	UG/L	66
)	M+P XYLENES	22.78	106.2	261651	210.04	UG/L	97
)	O-XYLENE	23.87	106.0	122540	108.30	UG/L	89
)	C250 TOTAL XYLENES	23.87	106.0	122540	108.30	UG/L	89
)	CYYY 1,3-DICHLOROBENZENE	28.43	146.0	236944	110.85	UG/L	85
)	CVVV 1,4-DICHLOROBENZENE	28.70	146.0	253356	108.83	UG/L	87
)	CWWW 1,2-DICHLOROBENZENE	29.75	146.0	211343	108.47	UG/L	90

Compound is ISTD

TOTAL ION CHROMATOGRAM

File: >K7969 35.0-300.0 amu. 6302-052295.V, ICAL CLP,10000,,VSTD200.U



Data File: >K7969::K1

Quant Output File: ^K7969::K2

Name: 6302-052295.U,,ICAL

Misc: CLP,10000,,VSTD200,L,A,ALS6 20UL/5ML JPT

Id File: KUNID::DB

Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K

Last Calibration: 950530 17:49

Operator ID: DOUG

Quant Time: 950531 15:02

Injected at: 950531 14:26

QUANT REPORT

erator ID: DOUG

Quant Rev: 6

Quant Time: 950531 15:02

* Out File: ^K7969::K2

Injected at: 950531 14:26

In File: >K7969::K1

Dilution Factor: 1.00000

ne: 6302-052295,U,,ICAL

so: CLP,10000,,VSTD200,L,A,ALS6 20UL/5ML JPT

File: KVOAID::DB

File: VOLATILE ORGANIC ANALYSIS, INST=HP5970K

Calibration: 950530 17:49

	Compound	R.T.	Q ion	Area	Conc	Units	q
*CI01	BROMOCHLOROMETHANE IS-1	11.40	128.0	38136	50.00	UG/L	94
CO10	CHLOROMETHANE	3.69	50.0	29362	246.30	UG/L	100
CO15	BROMOMETHANE	4.38	94.0	53610M*	124.29	UG/L	98
CO20	VINYL CHLORIDE	3.88	62.0	49902	214.83	UG/L	96
CO25	CHLOROETHANE	4.65	64.0	33891	158.65	UG/L	92
CXXX	TRICHLOROFLUOROMETHANE	5.02	101.0	207553	206.71	UG/L	94
CO71	ACROLEIN	5.93	56.0	25086	1976.54	UG/L	99
CO30	METHYLENE CHLORIDE	7.39	84.0	136508	205.96	UG/L	73
CO35	ACETONE	6.29	43.0	185860	190.13	UG/L	99
CO40	CARBON DISULFIDE	6.66	76.0	284471	208.87	UG/L	100
CO45	1,1-DICHLOROETHENE	6.16	96.0	121259	216.41	UG/L	74
CO50	1,1-DICHLOROETHANE	9.21	63.0	230360	214.07	UG/L	98
C176	METHYL-T-BUTYL-ETHER	8.16	73.0	241283	192.50	UG/L	97
CO74	ACRYLONITRILE	7.98	53.0	189608	2046.32	UG/L	89
CO51	TRANS-1,2-DICHLOROETHENE	8.12	96.0	158074	213.87	UG/L	86
CO55	CIS-1,2-DICHLOROETHENE	10.80	96.0	180840	212.60	UG/L	80
CO53	TOTAL-1,2-DICHLOROETHENE	10.80	96.0	336182M*	422.62	UG/L	80
CO60	CHLOROFORM	11.72	83.0	319371	206.05	UG/L	97
CO65	1,2-DICHLOROETHANE	13.18	62.0	164741	205.37	UG/L	92
CS15	D4-1,2-DICHLOROETHANE SS1	12.95	65.0	147502	184.70	UG/L	93
CI10	2-BUTANONE (MEK)	10.85	43.0	36865	225.83	UG/L	89
C198	TETRAHYDROFURAN	11.58	42.0	19943	218.58	UG/L	95
C199	CYCLOHEXANE	12.31	56.0	183137	222.18	UG/L	97
*CI10	1,4-DIFLUOROBENZENE IS-2	14.22	114.0	161270	50.00	UG/L	100
CI115	1,1,1-TRICHLOROETHANE	12.13	97.0	268229	197.63	UG/L	73
CI120	CARBON TETRACHLORIDE	12.58	117.0	283668	199.03	UG/L	91
CI125	VINYL ACETATE	9.44	43.0	214434	222.29	UG/L	91
CI130	BROMODICHLOROMETHANE	16.23	83.0	312357	199.98	UG/L	93
CI140	1,2-DICHLOROPROPANE	15.45	63.0	164630	220.99	UG/L	97
CZZZ	2-CHLOROETHYL VINYLETHYL ETHER	17.09	63.0	73956	179.93	UG/L	100
CI143	CIS-1,3-DICHLOROPROPENE	17.41	75.0	245232	227.74	UG/L	95
CI150	TRICHLOROETHENE	14.86	130.0	271458	216.97	UG/L	91
CI155	DIBROMOCHLOROMETHANE	20.42	129.0	372673	202.42	UG/L	96
CI160	1,1,2-TRICHLOROETHANE	19.37	97.0	168722	201.53	UG/L	97
CI165	BENZENE	13.13	78.0	369126	211.74	UG/L	100
CI172	TRANS-1,3-DICHLOROPROPENE	18.92	75.0	207626	202.74	UG/L	96
CI180	BROMOFORM	24.34	173.0	293468	206.72	UG/L	87
*CI20	D5-CHLOROBENZENE IS-3	22.02	117.0	126236	50.00	UG/L	100
CO205	4-METHYL-2-PENTANONE	17.67	43.0	102867	221.21	UG/L	98
CO210	2-HEXANONE (MPK)	20.15	43.0	68321	228.02	UG/L	88
CO220	TETRACHLOROETHYLENE	19.78	164.0	255256	217.77	UG/L	96
CO225	1,1,2,2-TETRACHLOROETHANE	25.80	85.0	227106	199.90	UG/L	95
CO25	O-8 TOLUENE (SS-2)	18.14	98.0	506323	196.77	UG/L	88

	Compound	R.T.	Q ion	Area	Conc	Units	q
)	C230 TOLUENE	18.28	91.0	491189	212.90	UG/L	97
)	C235 CHLOROBENZENE	22.11	112.1	454078	212.33	UG/L	93
)	C240 ETHYL BENZENE	22.47	106.0	199415	219.93	UG/L	97
)	CS10 BROMOFLUOROBENZENE (SS-3)	25.35	174.0	322399	200.21	UG/L	91
)	C245 STYRENE	23.93	104.1	397679	203.86	UG/L	68
)	M+P XYLENES	22.79	106.2	505854	401.10	UG/L	99
)	O-XYLENE	23.89	106.0	236817	206.74	UG/L	87
)	C250 TOTAL XYLENES	23.89	106.0	236817	206.74	UG/L	87
)	CYYY 1,3-DICHLOROBENZENE	28.45	146.0	453222	209.43	UG/L	85
)	CUUU 1,4-DICHLOROBENZENE	28.67	146.0	475389	201.71	UG/L	76
)	CWWW 1,2-DICHLOROBENZENE	29.72	146.0	382676	194.00	UG/L	82

Compound is ISTD

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CAMERG

Contract: GEI

Lab Code: CAMERG

Case No.: FD1423

SAS No.:

SDG No.:

Instrument ID: HP5970K

Calibration date: 06/01/95 Time: 1136

Lab File ID: K7990

Init. Calib. Date(s): 05/31/95 05/31/95

Heated Purge: (Y/N) N

Init. Calib. Times: 1159 1722

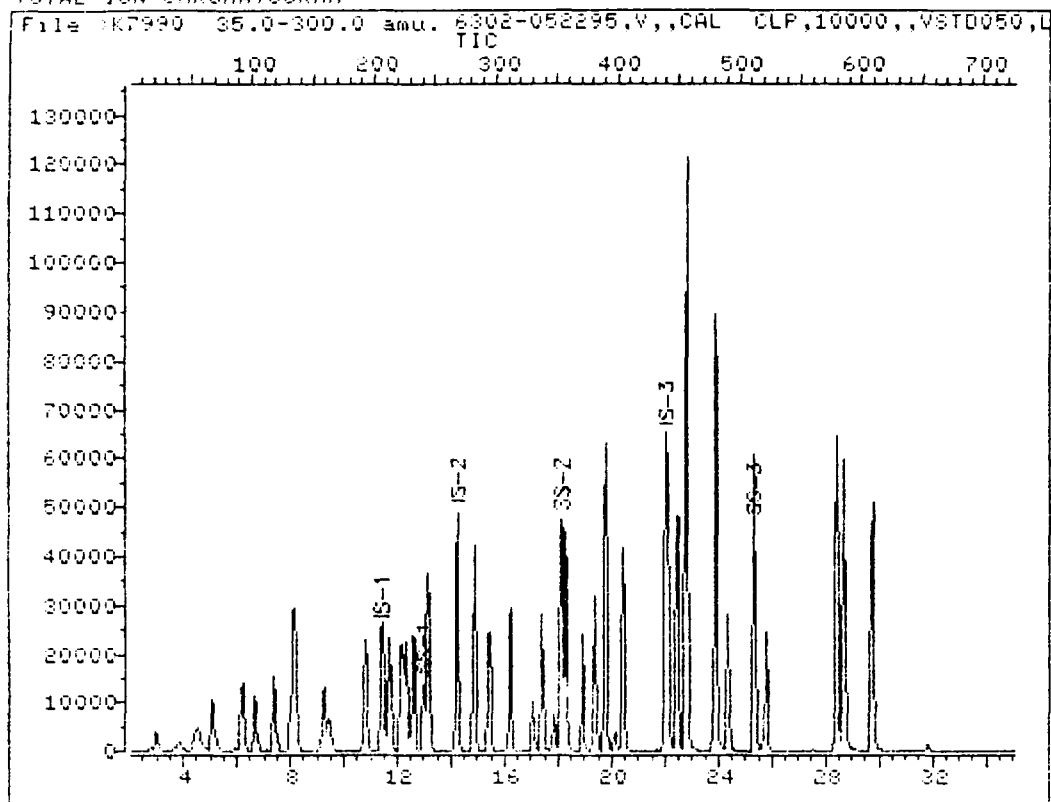
GC Column: CAP

ID: 0.530 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.174	0.211		-21.3	
Bromomethane	0.489	0.612	0.100	-25.4	25.0
Vinyl Chloride	0.296	0.334	0.100	-12.8	25.0
Chloroethane	0.266	0.303		-13.9	
Methylene Chloride	0.902	0.894		0.9	
Acetone	0.128	0.101		21.1	
Carbon Disulfide	1.689	1.807		-7.0	
1,1-Dichloroethane	0.737	0.773	0.100	-4.9	25.0
1,1-Dichloroethane	1.454	1.492	0.200	-2.6	25.0
1,2-Dichloroethane (total)	1.042	1.068		-2.5	
Chloroform	1.997	2.036	0.200	-2.0	25.0
1,2-Dichloroethane	1.052	0.956	0.100	9.1	25.0
2-Butanone	0.250	0.181		27.6	
1,1,1-Trichloroethane	0.402	0.400	0.100	0.5	25.0
Carbon Tetrachloride	0.429	0.419	0.100	2.1	25.0
Bromodichloromethane	0.478	0.451	0.200	5.6	25.0
1,2-Dichloropropane	0.249	0.238		4.4	
cis-1,3-Dichloropropene	0.336	0.314	0.100	6.5	25.0
Trichloroethane	0.412	0.389	0.300	5.6	25.0
Dibromochloromethane	0.577	0.505	0.100	12.5	25.0
1,1,2-Trichloroethane	0.269	0.232	0.100	13.8	25.0
Benzene	0.579	0.550	0.500	5.0	25.0
trans-1,3-Dichloropropene	0.316	0.286	0.100	9.5	25.0
Bromoform	0.445	0.342	0.100	23.2	25.0
4-Methyl-2-Pentanone	0.206	0.159		22.8	
2-Hexanone	0.129	0.095		26.4	
Tetrachloroethene	0.489	0.468	0.200	4.3	25.0
1,1,2,2-Tetrachloroethane	0.475	0.381	0.500	19.8	25.0
Toluene	0.969	0.954	0.400	1.5	25.0
Chlorobenzene	0.895	0.867	0.500	3.1	25.0
Ethylbenzene	0.383	0.373	0.100	2.6	25.0
Styrene	0.793	0.785	0.300	1.0	25.0
Xylene (total)	0.471	0.472	0.300	-0.2	25.0
Toluene-d8	0.975	1.016		-4.2	
Bromofluorobenzene	0.615	0.591	0.200	3.9	25.0
1,2-Dichloroethane-d4	0.951	0.898		5.6	

All other compounds must meet a minimum RRF of 0.010.

TOTAL ION CHROMATOGRAM



Data File: >K7990::K2

Quant Output File: K7990::K2

Name: 6302-052295.V, CAL

Misc: CLP,10000, VSTD050, L, W, ALS10 5UL/5ML JPT

Id File: KVOAID::DB

Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K

Last Calibration: 950531 18:10

Operator ID: DOUG

Quant Time: 950601 12:13

Injected at: 950601 11:36

QUANT REPORT

Operator ID: DOUG Quant Rev: 6 Quant Time: 950601 15:32
 Output File: ^K7990::K2 Injected at: 950601 11:36
 Data File: >K7990::K2 Dilution Factor: 1.00000
 Name: 6302-052295,U,,CAL
 Misc: CLP,10000,,VSTD050,L,W,ALS10 5UL/5ML JPT

ID File: KVOAID::DB
 Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
 Last Calibration: 950601 14:56

	Compound	R.T.	Q	ion	Area	Conc	Units	q
1)	*CI01 BROMOCHLOROMETHANE IS-1	11.39	128.0		38063	50.00	UG/L	97
2)	C010 CHLOROMETHANE	3.69	50.0		8035	50.00	UG/L	100
3)	C015 BROMOMETHANE	4.47	94.0		23327	50.00	UG/L	99
4)	C020 VINYL CHLORIDE	3.87	62.0		12715	50.00	UG/L	96
5)	C025 CHLOROETHANE	4.56	64.0		11553	50.00	UG/L	91
6)	CXXX TRICHLOROFLUOROMETHANE	5.06	101.0		50712	50.00	UG/L	90
7)	C071 ACROLEIN	5.92	56.0		4304	500.00	UG/L	91
8)	C030 METHYLENE CHLORIDE	7.38	84.0		34048	50.00	UG/L	71
9)	C035 ACETONE	6.29	43.0		3845	50.00	UG/L	97
0)	C040 CARBON DISULFIDE	6.65	76.0		68855	50.00	UG/L	100
1)	C045 1,1-DICHLOROETHENE	6.20	96.0		29454	50.00	UG/L	79
12)	C050 1,1-DICHLOROETHANE	9.25	63.0		56825	50.00	UG/L	96
13)	C176 METHYL-T-BUTYL-ETHER	8.16	73.0		58812	50.00	UG/L	98
4)	C074 ACRYLONITRILE	7.97	53.0		31608	500.00	UG/L	88
15)	C051 TRANS-1,2-DICHLOROETHENE	8.11	96.0		38850	50.00	UG/L	83
16)	C055 CIS-1,2-DICHLOROETHENE	10.80	96.0		43201	50.00	UG/L	83
7)	C053 TOTAL-1,2-DICHLOROETHENE	10.80	96.0		81372M	99.99	UG/L	83
8)	C060 CHLOROFORM	11.71	83.0		77580	50.00	UG/L	99
19)	C065 1,2-DICHLOROETHANE	13.17	62.0		36426	50.00	UG/L	93
0)	CS15 D4-1,2-DICHLOROETHANE SS1	12.94	65.0		34231	50.00	UG/L	91
1)	C110 2-BUTANONE (MEK)	10.84	43.0		6890	50.00	UG/L	87
22)	C198 TETRAHYDROFURAN	11.57	42.0		3775	50.00	UG/L	97
23)	C199 CYCLOHEXANE	12.30	56.0		45607	50.00	UG/L	98
4)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.21	114.0		165354	50.00	UG/L	100
25)	C115 1,1,1-TRICHLOROETHANE	12.16	97.0		66015	50.00	UG/L	74
26)	C120 CARBON TETRACHLORIDE	12.57	117.0		69110	50.00	UG/L	91
7)	C125 VINYL ACETATE	9.43	43.0		43091	50.00	UG/L	92
8)	C130 BROMODICHLOROMETHANE	16.22	83.0		74424	50.00	UG/L	96
29)	C140 1,2-DICHLOROPROPANE	15.40	63.0		39187	50.00	UG/L	98
30)	CZZZ 2-CHLOROETHYL VINYLETHYR	17.08	63.0		17360	50.00	UG/L	100
1)	C143 CIS-1,3-DICHLOROPROPENE	17.40	75.0		54876	53.00	UG/L	94
22)	C150 TRICHLOROETHENE	14.85	130.0		64124	50.00	UG/L	91
33)	C155 DIBROMOCHLOROMETHANE	20.41	129.0		83308	50.00	UG/L	93
4)	C160 1,1,2-TRICHLOROETHANE	19.36	97.0		38330	50.00	UG/L	97
5)	C165 BENZENE	13.12	78.0		90697	50.00	UG/L	100
36)	C172 TRANS-1,3-DICHLOROPROPENE	18.91	75.0		44436	47.00	UG/L	96
7)	C180 BROMOFORM	24.33	173.0		56368	50.00	UG/L	86
8)	*CI20 D5-CHLOROBENZENE IS-3	22.00	117.0		129381	50.00	UG/L	100
39)	C205 4-METHYL-2-PENTANONE	17.86	43.0		20461	50.00	UG/L	94
40)	C210 2-HEXANONE (MPK)	20.14	43.0		12226	50.00	UG/L	88
1)	C220 TETRACHLOROETHYLENE	19.77	164.0		60425	50.00	UG/L	98
22)	C225 1,1,2,2-TETRACHLOROETHANE	25.79	83.0		49120	50.00	UG/L	90
43)	CS05 D-8 TOLUENE (SS-2)	18.09	98.0		131073	50.00	UG/L	91

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C230 TOLUENE	18.27	91.0	123121	50.00	UG/L	97
45)	C235 CHLOROBENZENE	22.10	112.1	111819	50.00	UG/L	94
46)	C240 ETHYL BENZENE	22.41	106.0	48142	50.00	UG/L	97
47)	CS10 BROMOFLUOROBENZENE (SS-3)	25.28	174.0	76186	50.00	UG/L	65
48)	C245 STYRENE	23.92	104.1	101216	50.00	UG/L	68
49)	M+P XYLENES	22.78	106.2	131020	100.00	UG/L	96
50)	O-XYLENE	23.87	106.0	60870	50.00	UG/L	91
51)	C250 TOTAL XYLENES	23.87	106.0	60870	50.00	UG/L	91
52)	CYYY 1,3-DICHLOROBENZENE	28.43	146.0	110771	50.00	UG/L	88
53)	CUVV 1,4-DICHLOROBENZENE	28.66	146.0	117537	50.00	UG/L	78
54)	CWWW 1,2-DICHLOROBENZENE	29.70	146.0	96965	50.00	UG/L	81

* Compound is ISTD

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: FD1423

SAS No.:

SDG No.:

Instrument ID: HP5970K

Calibration date: 06/03/95 Time: 0940

Lab File ID: KB047

Init. Calib. Date(s): 05/31/95 05/31/95

Heated Purge: (Y/N) N

Init. Calib. Times: 1159 1722

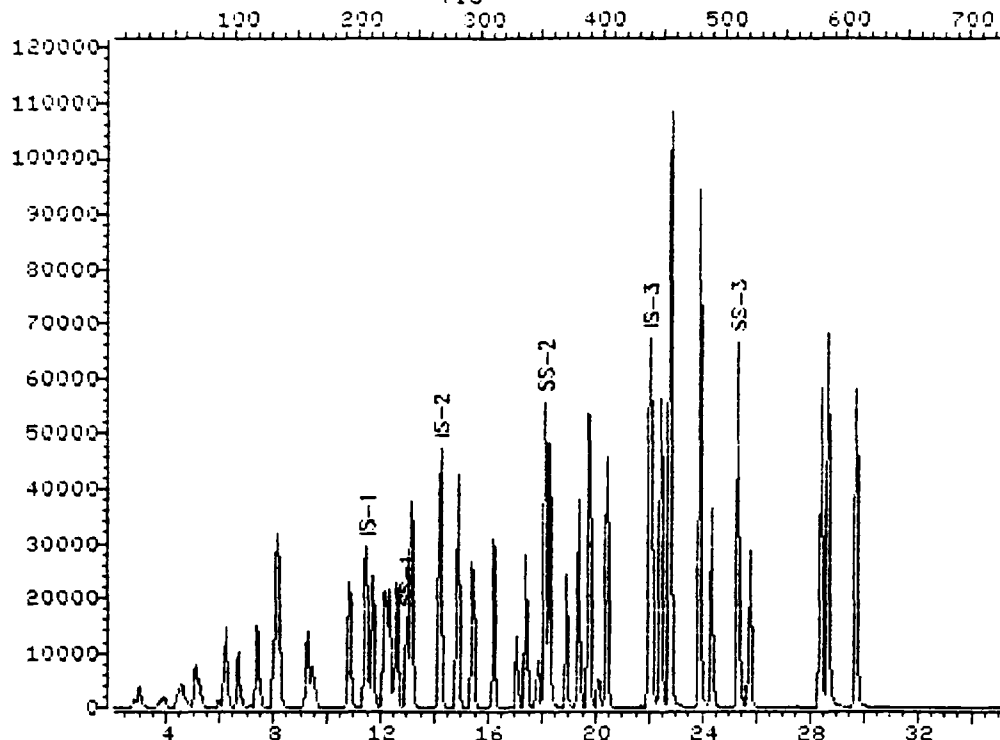
GC Column: CAP

ID: 0.530 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.174	0.125		28.2	
Bromomethane	0.488	0.524	0.100	-7.4	25.0
Vinyl Chloride	0.296	0.262	0.100	11.5	25.0
Chloroethane	0.266	0.293		-10.2	
Methylene Chloride	0.902	0.872		3.3	
Acetone	0.128	0.133		-3.9	
Carbon Disulfide	1.689	1.666		1.4	
1,1-Dichloroethane	0.737	0.714	0.100	3.1	25.0
1,1-Dichloroethane	1.454	1.460	0.200	-0.4	25.0
1,2-Dichloroethane (total)	1.042	1.044		-0.2	
Chloroform	1.997	1.999	0.200	-0.1	25.0
1,2-Dichloroethane	1.052	1.080	0.100	-2.7	25.0
2-Butanone	0.250	0.236		5.6	
1,1,1-Trichloroethane	0.402	0.368	0.100	8.5	25.0
Carbon Tetrachloride	0.428	0.381	0.100	11.0	25.0
Bromodichloromethane	0.478	0.472	0.200	1.3	25.0
1,2-Dichloropropane	0.249	0.240		3.6	
cis-1,3-Dichloropropene	0.336	0.325	0.100	3.3	25.0
Trichloroethene	0.412	0.372	0.300	9.7	25.0
Dibromochloromethane	0.577	0.535	0.100	7.3	25.0
1,1,2-Trichloroethane	0.269	0.258	0.100	4.1	25.0
Benzene	0.579	0.554	0.500	4.3	25.0
trans-1,3-Dichloropropene	0.316	0.300	0.100	5.1	25.0
Bromoform	0.445	0.376	0.100	15.5	25.0
4-Methyl-2-Pentanone	0.206	0.195		5.3	
2-Hexanone	0.129	0.118		8.5	
Tetrachloroethene	0.489	0.418	0.200	14.5	25.0
1,1,2,2-Tetrachloroethane	0.473	0.454	0.500	4.4	25.0
Toluene	0.969	0.937	0.400	3.3	25.0
Chlorobenzene	0.895	0.840	0.500	6.1	25.0
Ethylbenzene	0.383	0.356	0.100	7.0	25.0
Styrene	0.793	0.771	0.300	2.8	25.0
Xylene (total)	0.471	0.450	0.300	4.5	25.0
Toluene-d8	0.975	1.065		-9.2	
Bromofluorobenzene	0.615	0.600	0.200	2.4	25.0
1,2-Dichloroethane-d4	0.951	1.126		-18.4	

All other compounds must meet a minimum RRF of 0.010.

TOTAL ION CHROMATOGRAM

File >K8047 35.0-300.0 amu. 6302-052295,V,,CAL CLP,10000,,VSTD050,L
TIC

Data File: >K8047::L1

Quant Output File: ^K8047::K2

Name: 6302-052295,U,,CAL

Misc: CLP,10000,,VSTD050,L,W,ALS1 5UL/5ML TOM

Id File: KVOAID::DB

Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K

Last Calibration: 950602 10:58

Operator ID: DOUG

Quant Time: 950603 10:16

Injected at: 950603 09:40

QUANT REPORT

Operator ID: DOUG

Quant Rev: 6

Quant Time: 950606 10:45

Output File: ^K8047::K2

Injected at: 950603 09:40

Data File: >K8047::K1

Dilution Factor: 1.00000

Name: 6302-052295,U,,CAL

Misc: CLP,10000,,VSTD050,L,W,ALS1 5UL/5ML TOM

J File: KVOAID::DB

Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K

Last Calibration: 950606 10:44

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 BROMOCHLOROMETHANE IS-1	11.44	128.0	38537	50.00	UG/L	94
2)	C010 CHLOROMETHANE	3.69	50.0	4814	50.00	UG/L	100
3)	C015 BROMOMETHANE	4.51	94.0	20181	50.00	UG/L	97
4)	C020 VINYL CHLORIDE	3.92	62.0	10099	50.00	UG/L	97
5)	C025 CHLOROETHANE	4.69	64.0	11299	50.00	UG/L	94
6)	CXXX TRICHLOROFLUOROMETHANE	5.10	101.0	46018	50.00	UG/L	98
7)	C071 ACROLEIN	5.97	56.0	5091	500.00	UG/L	93
8)	C030 METHYLENE CHLORIDE	7.38	84.0	33553	50.00	UG/L	70
9)	C035 ACETONE	6.29	43.0	5120	50.00	UG/L	95
10)	C040 CARBON DISULFIDE	6.70	76.0	64132	50.00	UG/L	100
11)	C045 1,1-DICHLOROETHENE	6.20	96.0	27488	50.00	UG/L	78
12)	C050 1,1-DICHLOROETHANE	9.25	63.0	56215	50.00	UG/L	95
13)	C176 METHYL-T-BUTYL-ETHER	8.20	73.0	58809	50.00	UG/L	97
14)	C074 ACRYLONITRILE	8.02	53.0	41753	500.00	UG/L	88
15)	C051 TRANS-1,2-DICHLOROETHENE	8.16	96.0	37062	50.00	UG/L	93
16)	C055 CIS-1,2-DICHLOROETHENE	10.80	96.0	43373	50.00	UG/L	80
17)	C053 TOTAL-1,2-DICHLOROETHENE	10.80	96.0	79768M*	99.19	UG/L	80
18)	C060 CHLOROFORM	11.71	83.0	76973 ^{sp1}	50.00	UG/L	96
19)	C065 1,2-DICHLOROETHANE	13.17	62.0	41561 ⁰⁶⁰⁶⁷⁵	50.00	UG/L	94
20)	CS15 D4-1,2-DICHLOROETHANE SS1	12.94	65.0	43347M*	50.00	UG/L	90
21)	C110 2-BUTANONE (MEK)	10.85	43.0	9076	50.00	UG/L	89
22)	C198 TETRAHYDROFURAN	11.57	42.0	4969	50.00	UG/L	97
23)	C199 CYCLOHEXANE	12.30	56.0	44277	50.00	UG/L	94
24)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.22	114.0	164905	50.00	UG/L	100
25)	C115 1,1,1-TRICHLOROETHANE	12.17	97.0	60670	50.00	UG/L	75
26)	C120 CARBON TETRACHLORIDE	12.58	117.0	62838	50.00	UG/L	88
27)	C125 VINYL ACETATE	9.43	43.0	50588	50.00	UG/L	89
28)	C130 BROMODICHLOROMETHANE	16.18	83.0	77821	50.00	UG/L	98
29)	C140 1,2-DICHLOROPROPANE	15.40	63.0	39621	50.00	UG/L	95
30)	CZZZ 2-CHLOROETHYL VINYL ETHER	17.04	63.0	21407	50.00	UG/L	100
31)	C143 CIS-1,3-DICHLOROPROPENE	17.41	75.0	56857	53.00	UG/L	95
32)	C150 TRICHLOROETHENE	14.86	130.0	61321	50.00	UG/L	91
33)	C155 DIBROMOCHLOROMETHANE	20.42	129.0	88270	50.00	UG/L	97
34)	C160 1,1,2-TRICHLOROETHANE	19.37	97.0	42606	50.00	UG/L	95
35)	C165 BENZENE	13.12	78.0	91447	50.00	UG/L	100
36)	C172 TRANS-1,3-DICHLOROPROPENE	18.91	75.0	46555	47.00	UG/L	93
37)	C180 BROMOFORM	24.34	173.0	61983	50.00	UG/L	85
38)	*CI20 D5-CHLOROBENZENE IS-3	22.01	117.0	132790	50.00	UG/L	100
39)	C205 4-METHYL-2-PENTANONE	17.86	43.0	25893	50.00	UG/L	95
40)	C210 2-HEXANONE (MPK)	20.10	43.0	15631	50.00	UG/L	81
41)	C220 TETRACHLOROETHYLENE	19.73	164.0	55566	50.00	UG/L	99
42)	C225 1,1,2,2-TETRACHLOROETHANE	25.75	83.0	60442	50.00	UG/L	94
43)	CS05 D-8 TOLUENE (SS-2)	18.09	98.0	141664	50.00	UG/L	90

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	C230 TOLUENE	18.27	91.0	124619	50.00	UG/L	97
45)	C235 CHLOROBENZENE	22.06	112.1	111668	50.00	UG/L	84
46)	C240 ETHYL BENZENE	22.42	106.0	47303	50.00	UG/L	99
47)	CS10 BROMOFLUOROBENZENE (SS-3)	25.29	174.0	79829	50.00	UG/L	92
48)	C245 STYRENE	23.88	104.1	102570	50.00	UG/L	68
49)	M+P XYLENES	22.79	106.2	132855	100.00	UG/L	96
50)	O-XYLENE	23.83	106.0	59908	50.00	UG/L	86
51)	C250 TOTAL XYLENES	23.83	106.0	59908	50.00	UG/L	86
52)	CYYY 1,3-DICHLOROBENZENE	28.39	146.0	107975	50.00	UG/L	85
53)	CVVV 1,4-DICHLOROBENZENE	28.66	146.0	114507	50.00	UG/L	85
54)	CWWW 1,2-DICHLOROBENZENE	29.71	146.0	100291	50.00	UG/L	88

* Compound is ISTD

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CANBRO

Contract: GEL

Lab Code: CANBRO

Case No.: FD1423

SAS No.:

SDG No.:

Instrument ID: HP5970K

Calibration Date: 05/04/95 Time: 0623

Lab File ID: K5090

Init. Calib. Date(s): 05/31/95 05/31/95

Heated Purge: (Y/N) N

Init. Calib. Times: 1159 1722

GC Column: CAP

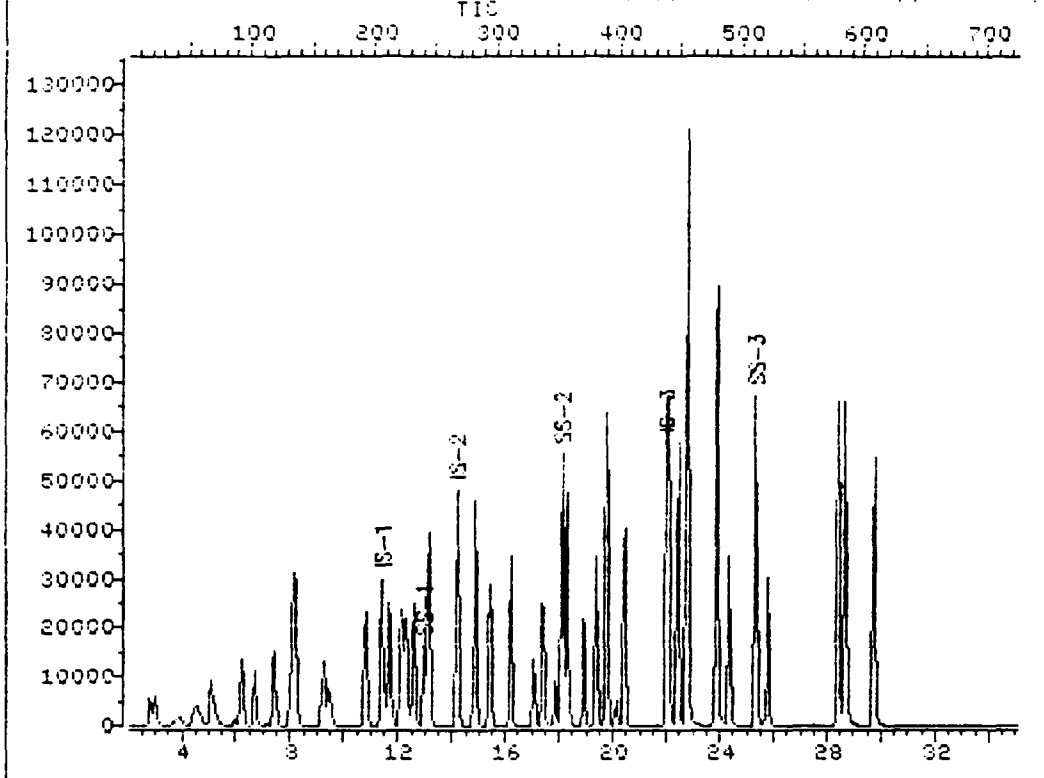
ID: 0.530(mm)

COMPOUND	RRF	RRF50	MIN	MAX
RRF	RRF50	RRF	%D	%D
Chloromethane	0.174	0.158		9.2
Bromomethane	0.498	0.560	0.100	-14.8
Vinyl Chloride	0.296	0.306	0.100	-3.4
Chloroethane	0.266	0.298		-12.0
Methylene Chloride	0.702	0.714		-1.3
Acetone	0.123	0.118		7.8
Carbon Disulfide	1.609	1.748		-3.5
1,1-Dichloroethane	0.707	0.761	0.100	-3.3
1,1-Dichloroethane	1.454	1.466	0.200	-0.6
1,2-Dichloroethane (total)	1.042	1.071		-2.8
Chloroform	1.997	2.082	0.200	-4.3
1,2-Dichloroethane	1.052	1.085	0.100	-3.1
2-Butanone	0.250	0.222		11.2
1,1,1-Trichloroethane	0.403	0.386	0.100	4.0
Carbon Tetrachloride	0.428	0.395	0.100	7.7
Bromodichloromethane	0.478	0.466	0.200	2.5
1,2-Dichloropropane	0.247	0.237		4.0
cis-1,3-Dichloropropene	0.306	0.318	0.100	5.4
Trichloroethene	0.412	0.383	0.300	7.0
Dibromochloromethane	0.577	0.525	0.100	8.8
1,1,2-Trichloroethane	0.267	0.255	0.100	5.2
Benzene	0.575	0.575	0.500	0.7
trans-1,3-Dichloropropene	0.316	0.298	0.100	5.7
Bromoform	0.445	0.361	0.100	18.9
4-Methyl-2-Pentanone	0.206	0.187		9.2
2-Hexanone	0.129	0.109		15.5
Tetrachloroethene	0.489	0.441	0.200	9.8
1,1,2,2-Tetrachloroethane	0.475	0.429	0.500	9.7
Toluene	0.969	0.955	0.400	1.4
Chlorobenzene	0.895	0.870	0.500	2.8
Ethylbenzene	0.383	0.370	0.100	3.4
Styrene	0.793	0.791	0.300	0.3
Xylene (total)	0.471	0.472	0.300	-0.2
Toluene-d8	0.975	1.032		-5.8
Bromofluorobenzene	0.615	0.562	0.200	8.6
1,2-Dichloroethane-d4	0.951	1.041		-9.5

All other compounds must meet a minimum RRF of 0.010.

TOTAL ION CHROMATOGRAM

File >K8080 36.0-300.0 amu. 6302-051695.V.,CAL CLP.10000,,VSTD050,L



Data File: >K8080::L2

Quant Output File: ^K8080::K2

Name: 6302-051695.V.,CAL

Misc: CLP,10000,,VSTD050,L,W,ALS1 5UL/5ML TOM

Id File: KUDRID::DB

Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K

Last Calibration: 950603 10:31

Operator ID: DOUG

Quant Time: 950604 09:04

Injected at: 950604 08:28

QUANT REPORT

Operator ID: DOUG Quant Rev: 6 Quant Time: 950604 09:28
 Output File: ^K8080::K2 Injected at: 950604 08:28
 Data File: >K8080::L2 Dilution Factor: 1.00000
 Name: 6302-051695,U,,CAL
 Misc: CLP,10000,,VSTD050,L,W,ALS1 5UL/5ML TOM

ID File: KVOAID::DB
 Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
 Last Calibration: 950604 09:28

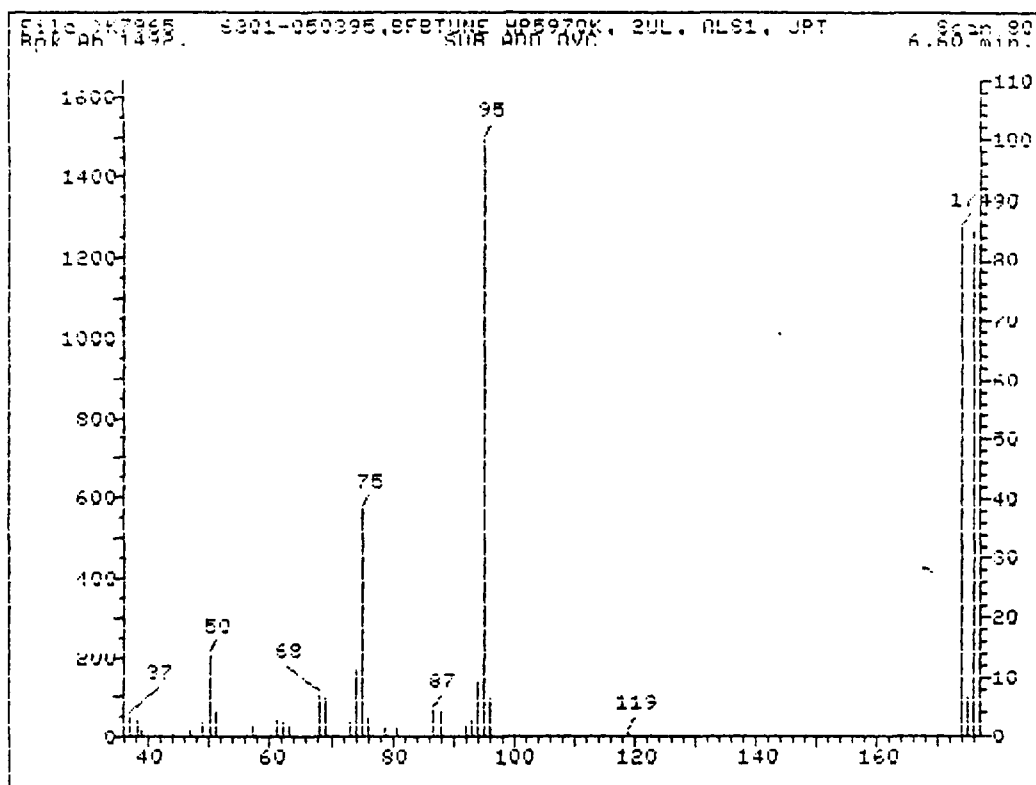
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 BROMOCHLOROMETHANE IS-1	11.41	128.0	38694	50.00	UG/L	95
2)	C010 CHLOROMETHANE	3.71	50.0	6129	50.00	UG/L	100
3)	C015 BROMOMETHANE	4.53	94.0	21675	50.00	UG/L	94
4)	C020 VINYL CHLORIDE	3.89	62.0	11823	50.00	UG/L	99
5)	C025 CHLOROETHANE	4.66	64.0	11535	50.00	UG/L	92
6)	CXXX TRICHLOROFLUOROMETHANE	5.07	101.0	50239	50.00	UG/L	97
7)	C071 ACROLEIN	5.94	56.0	4710	500.00	UG/L	93
8)	C030 METHYLENE CHLORIDE	7.40	84.0	35372	50.00	UG/L	69
9)	C035 ACETONE	6.30	43.0	4549	50.00	UG/L	96
10)	C040 CARBON DISULFIDE	6.67	76.0	67665	50.00	UG/L	100
11)	C045 1,1-DICHLOROETHENE	6.17	96.0	29463	50.00	UG/L	70
12)	C050 1,1-DICHLOROETHANE	9.22	63.0	56749	50.00	UG/L	95
13)	C176 METHYL-T-BUTYL-ETHER	8.17	73.0	57303	50.00	UG/L	97
14)	C074 ACRYLONITRILE	7.99	53.0	38207	500.00	UG/L	89
15)	C051 TRANS-1,2-DICHLOROETHENE	8.13	96.0	39142	50.00	UG/L	88
16)	C055 CIS-1,2-DICHLOROETHENE	10.81	96.0	44442	50.00	UG/L	87
17)	C053 TOTAL-1,2-DICHLOROETHENE	10.81	96.0	32907M	100.00	UG/L	87
18)	C060 CHLOROFORM	11.68	83.0	80553	50.00	UG/L	99
19)	C065 1,2-DICHLOROETHANE	13.14	62.0	41983	50.00	UG/L	93
20)	CS15 D4-1,2-DICHLOROETHANE SS1	12.96	65.0	40293M	50.00	UG/L	89
21)	C110 2-BUTANONE (MEK)	10.86	43.0	8577	50.00	UG/L	88
22)	C198 TETRAHYDROFURAN	11.54	42.0	4706	50.00	UG/L	96
23)	C199 CYCLOHEXANE	12.32	56.0	45766	50.00	UG/L	96
24)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.19	114.0	166655	50.00	UG/L	100
25)	C115 1,1,1-TRICHLOROETHANE	12.14	97.0	64487	50.00	UG/L	76
26)	C120 CARBON TETRACHLORIDE	12.59	117.0	65938	50.00	UG/L	90
27)	C125 VINYL ACETATE	9.45	43.0	48872	50.00	UG/L	92
28)	C130 BROMODICHLOROMETHANE	16.19	83.0	77800	50.00	UG/L	99
29)	C140 1,2-DICHLOROPROPANE	15.42	63.0	39914	50.00	UG/L	94
30)	CECZ 2-CHLOROETHYL VINYLETHER	17.06	63.0	20623	50.00	UG/L	100
31)	C145 CIS-1,3-DICHLOROPROPENE	17.38	75.0	56292	50.00	UG/L	91
32)	C150 TRICHLOROETHENE	14.87	130.0	63897	50.00	UG/L	95
33)	C155 DIBROMOCHLOROMETHANE	20.43	129.0	87900	50.00	UG/L	95
34)	C160 1,1,2-TRICHLOROETHANE	13.38	97.0	42530	50.00	UG/L	94
35)	C165 BENZENE	13.09	78.0	95969	50.00	UG/L	100
36)	C172 TRANS-1,3-DICHLOROPROPENE	18.88	75.0	46826	47.00	UG/L	96
37)	C160 BROMOFORM	24.35	173.0	60233	50.00	UG/L	85
38)	*CI20 D5-CHLOROBENZENE IS-3	21.98	117.0	132516	50.00	UG/L	100
39)	C205 4-METHYL-2-PENTANONE	17.83	43.0	24734	50.00	UG/L	98
40)	C210 2-HEXANONE (MPK)	20.11	43.0	14449	50.00	UG/L	84
41)	C220 TETRACHLOROETHYLENE	19.75	164.0	58206	50.00	UG/L	98
42)	C225 1,1,2,2-TETRACHLOROETHANE	25.76	85.0	56691	50.00	UG/L	98
43)	C305 D-8 TOLUENE (SC-2)	13.11	93.0	136230	50.00	UG/L	89

	Compound	R.T.	Q Ion	Area	Conc	Units	q
44)	C230 TOLUENE	18.29	91.0	126069	50.00	UG/L	99
45)	C235 CHLOROBENZENE	22.07	112.1	114835	50.00	UG/L	87
46)	C240 ETHYL BENZENE	22.43	106.0	48803	50.00	UG/L	98
47)	C510 BROMODFLUOROBENZENE (SS-3)	25.31	174.0	74242	50.00	UG/L	90
48)	C245 STYRENE	23.89	104.1	104409	50.00	UG/L	69
49)	M+P XYLENES	22.75	106.2	138229	100.00	UG/L	97
50)	O-XYLENE	23.85	106.0	62273	50.00	UG/L	90
51)	C250 TOTAL XYLENES	23.85	106.0	62273	50.00	UG/L	90
52)	CYYY 1,3-DICHLOROBENZENE	28.40	146.0	104872	50.00	UG/L	89
53)	CUUU 1,4-DICHLOROBENZENE	28.68	146.0	115075	50.00	UG/L	89
54)	CWWW 1,2-DICHLOROBENZENE	29.73	146.0	98718	50.00	UG/L	94

* Compound is ISTD

3D. RAW QC DATA

3D(1) . BFB TUNES



GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	8-40% of mass 95	13.72	13.72	OK
75	30-66% of mass 95	38.10	38.10	OK
95	Base peak, 100% relative abundance	100.00	100.00	OK
96	5-9% of mass 95	6.39	6.39	OK
173	Less than 2% of mass 174	0.00	0.00	OK
174	Greater than 50% of mass 95	25.41	25.41	OK
175	4-9% of mass 174	6.50	7.81	OK
176	93-101% of mass 174	25.01	29.53	OK
177	5-9% of mass 175	5.52	6.49	OK

Injection Date: 05/31/95

Injection Time: 09:42

Data File: >K7965

Scan: 80

>K7865 6301-050395,BFBTUNE HP5970K, 2UL, ALS1, JPT
80 SUB ADD NRM DVC

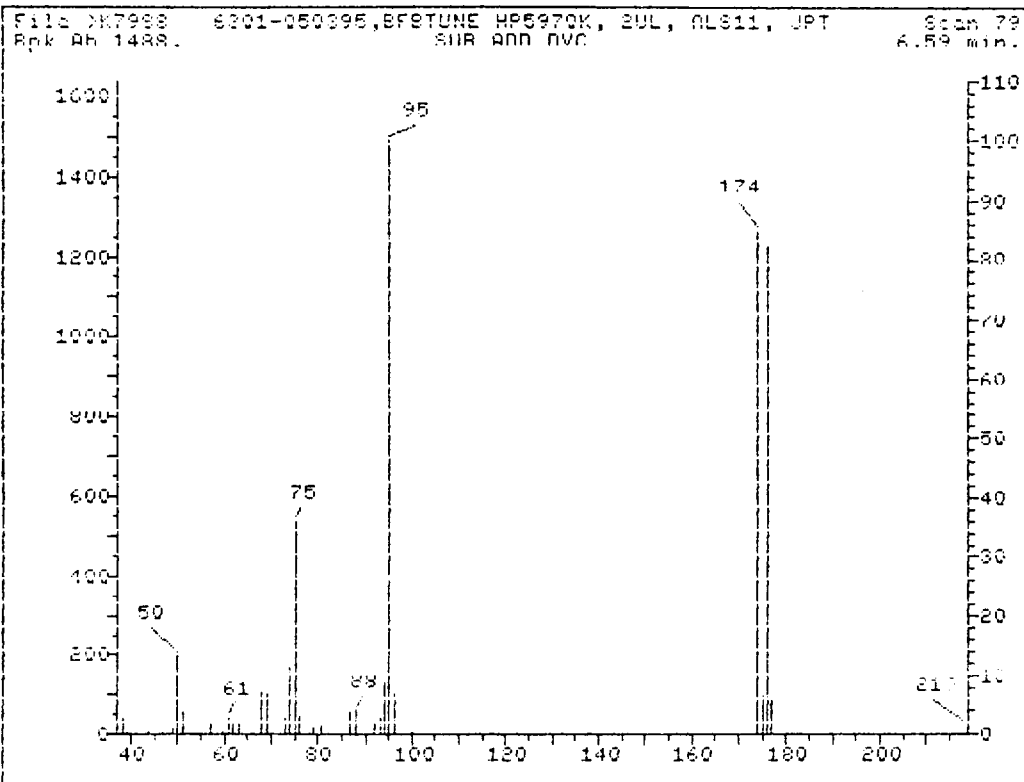
File: >K7865 Scan #: 80 Retn. time: 6.60

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.00	.380	50.05	13.721	63.05	1.743	78.95	1.318	95.05	100.000
37.00	3.218	51.15	4.045	68.05	6.950	80.95	1.341	96.05	6.391
38.10	2.883	56.05	.447	69.05	6.570	86.95	4.469	119.00	.693
39.05	1.006	57.05	1.765	73.05	2.615	88.05	3.978	174.00	85.408
40.05	.045	60.05	.335	74.05	11.106	92.05	1.966	175.00	6.503
44.05	.291	61.05	2.793	75.05	38.101	93.05	2.950	176.00	85.006
47.05	.939	62.05	2.525	76.05	3.106	94.05	9.050	177.00	5.520
49.05	2.458								

MS data file header from : >K7865

Sample: 6301-050395,BFBTUNE Operator: DOUG SUPER GRP. 5/31/95 9:42
Misc : HP5970K, 2UL, ALS1, JPT
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS #: 0
Method file: KBFB Tuning file: MTUNEK No. of extra records: 2
Source temp.: 0 Analyzer temp.: 220 Transfer line temp.: 0

Chromatographic temperatures : 100. 150. 0. 0. 0.
Chromatographic times, min. : .5 5.0 0.0 0.0 0.0
Chromatographic rate, deg/min: 20.0 0.0 0.0 0.0 0.0



GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	8-40% of mass 95	13.13	13.13	Ok
75	30-65% of mass 95	35.94	35.94	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.70	6.70	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	84.67	84.67	Ok
175	4-9% of mass 174	6.39	7.54	Ok
176	93-101% of mass 174	82.25	97.14	Ok
177	5-9% of mass 176	5.74	6.97	Ok

Injection Date: 06/01/95

Injection Time: 09:46

Data File: >K7988

Scan: 79

>K7988 6301-050395,BFBTUNE HP5970K, 2UL, ALS11, JPT
 79 SUB ADD NRM DVC

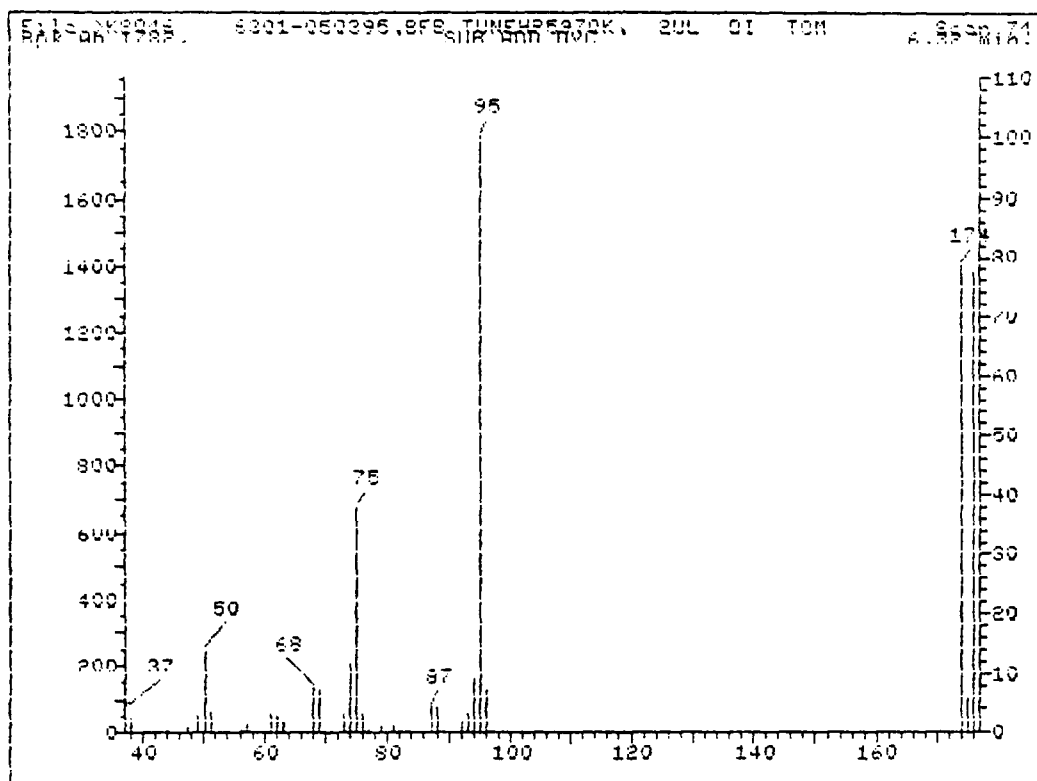
File: >K7988 Scan #: 79 Retn. time: 6.59

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.10	3.114	50.00	13.130	68.00	7.036	80.95	1.456	96.05	6.700
38.10	2.689	51.00	3.697	69.00	6.744	86.95	3.742	99.95	.359
39.00	.471	57.00	1.703	73.00	2.801	87.95	4.033	174.00	84.674
40.00	.022	59.90	.314	74.00	11.091	92.05	2.061	175.00	16.386
44.00	.381	61.00	2.823	75.00	35.940	93.05	2.644	176.00	82.254
47.00	.538	62.00	2.129	76.00	3.249	94.05	8.895	176.90	5.736
49.10	1.188	63.00	1.905	78.95	1.188	95.05	100.000	219.05	.807

MS data file header from : >K7988

Sample: 6301-050395,BFBTUNE Operator: DOUG SUPER GPP. 6/01/95 9:46
 Misc : HP5970K, 2UL, ALS11, JPT
 Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS #: 0
 Method file: KBFB Tuning file: MTUNEK No. of extra records: 2
 Source temp.: 0 Analyzer temp.: 220 Transfer line temp.: 0

Chromatographic temperatures : 100. 150. 0. 0. 0.
 Chromatographic times, min. : .5 5.0 0.0 0.0 0.0
 Chromatographic rate, deg/min: 20.0 0.0 0.0 0.0 0.0



GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance		Status
		Base Peak	Appropriate Peak	
50	2-10% of mass 95	13.62	13.62	Ok
75	30-56% of mass 95	37.78	37.78	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
99	5-8% of mass 95	7.31	7.31	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	78.74	78.74	Ok
175	4-8% of mass 174	8.04	7.97	Ok
176	93-101% of mass 174	77.52	93.46	Ok
177	5-8% of mass 176	5.26	6.73	Ok

Injection Date: 06/03/95

Injection Time: 09:14

Data File: >K9015

Scan: 71

>K8046 6301-050395,BFB TUNEHP5970K, 2UL OI TOM
74 SUB ADD NRM DVC

File: >K8046 Scan #: 74 Retn. time: 6.32

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.10	3.740	56.00	.430	73.00	3.067	80.90	1.178	95.00	100.000
38.10	2.487	57.00	1.477	74.00	11.502	87.00	4.451	96.05	7.313
44.00	.430	61.00	2.974	75.00	37.778	88.00	4.114	174.00	78.736
47.10	1.141	62.00	2.805	76.00	3.048	92.00	2.020	175.00	6.041
49.00	2.693	63.00	1.758	77.00	.393	93.00	3.273	176.00	77.520
50.10	13.615	68.00	7.500	78.90	1.178	94.00	9.201	177.00	5.255
51.10	3.450	69.00	7.069						

MS data file header from : >K8046

Sample: 6301-050395,BFB TUNE Operator: DOUG SUPER GRP. 6/03/95 9:14
Misc : HP5970K, 2UL OI TOM
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0
Method file: KBFB Tuning file: MTUNEK No. of extra records: 2
Source temp.: 0 Analyzer temp.: 220 Transfer line temp.: 0

Chromatographic temperatures : 100. 150. 0. 0. 0.
Chromatographic times, min. : .5 5.0 0.0 0.0 0.0
Chromatographic rate, deg/min: 20.0 0.0 0.0 0.0 0.0

>K8079 6301-050395,BFB TUNEHP5970K, 2UL DI TQM
74 SUB ADD NRM DVC

File: >K8079 Scan #: 74 Retn. time: 6.32

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.00	.715	51.10	3.596	69.00	8.072	78.90	.917	95.00	100.000
37.10	3.357	56.00	.440	70.00	.660	81.00	1.486	96.05	7.173
38.00	3.284	57.00	1.816	73.00	3.064	87.00	4.385	173.00	.202
44.00	.422	60.00	.404	74.00	11.081	88.00	4.421	174.00	78.408
45.00	.459	61.00	3.210	75.00	38.874	92.00	1.523	175.00	5.687
47.00	.495	62.00	2.715	76.00	3.412	93.00	3.174	176.00	78.444
49.00	2.532	63.00	1.596	76.90	.532	94.00	8.971	177.00	5.027
50.00	13.741	68.00	7.411						

MS data file header from : >K8079

Sample: 6301-050395,BFB TUNE Operator: DOUG SUPER GRP. 6/04/95 8:00
Misc : HP5970K, 2UL DI TQM
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS #: 0
Method file: KBFB Tuning file: MTUNEK No. of extra records: 2
Source temp.: 0 Analyzer temp.: 220 Transfer line temp.: 0

Chromatographic temperatures : 100. 150. 0. 0. 0.
Chromatographic times, min. : .5 5.0 0.0 0.0 0.0
Chromatographic rate, deg/min: 20.0 0.0 0.0 0.0 0.0

3D(2) . BLANK DATA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK060195K

Lab Name: CAMBERG

Contract: GET

Lab Code: CAMBERG

Case No.: FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 6305-053095

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K7993

Level: (low/med) LOW

Date Received:

% Moisture: not det.

Date Analyzed: 06/01/95

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	10
74-83-9	Bromomethane	10	10
75-01-4	Vinyl Chloride	10	10
75-00-3	Chloroethane	10	10
75-07-3	Methyl-ne Chloride	10	10
67-64-1	Acetone	10	10
75-15-0	Carbon Disulfide	10	10
75-35-4	1,1-Dichloroethene	10	10
75-34-3	1,1-Dichloroethane	10	10
540-57-0	1,2-Dichloroethene (total)	10	10
67-66-3	Chloroform	10	10
107-06-2	1,2-Dichloroethane	10	10
78-93-2	2-Butanone	10	10
71-55-6	1,1,1-Trichloroethane	10	10
56-23-5	Carbon Tetrachloride	10	10
75-27-4	Bromodichloromethane	10	10
78-87-5	1,2-Dichloropropane	10	10
10061-01-3	cis-1,3-Dichloropropene	10	10
79-01-6	Trichloroethene	10	10
124-48-1	Dibromochloromethane	10	10
79-00-5	1,1,2-Trichloroethane	10	10
71-43-2	Benzene	10	10
10061-02-6	trans-1,3-Dichloropropene	10	10
75-25-2	Bromoform	10	10
108-10-1	4-Methyl-2-Pentanone	10	10
591-78-6	2-Hexanone	10	10
127-18-4	Tetrachloroethene	10	10
79-34-5	1,1,2,2-Tetrachloroethane	10	10
108-88-3	Toluene	10	10
108-90-7	Chlorobenzene	10	10
100-41-4	Ethylbenzene	10	10
100-42-5	Styrene	10	10
1330-20-7	Xylene (total)	10	10

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLK060195K

Lab Name: CAMBRO

Contract: GEI

Lab Code: CAMBRO

Case No.: FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 6305-053095

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K7993

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 06/01/95

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

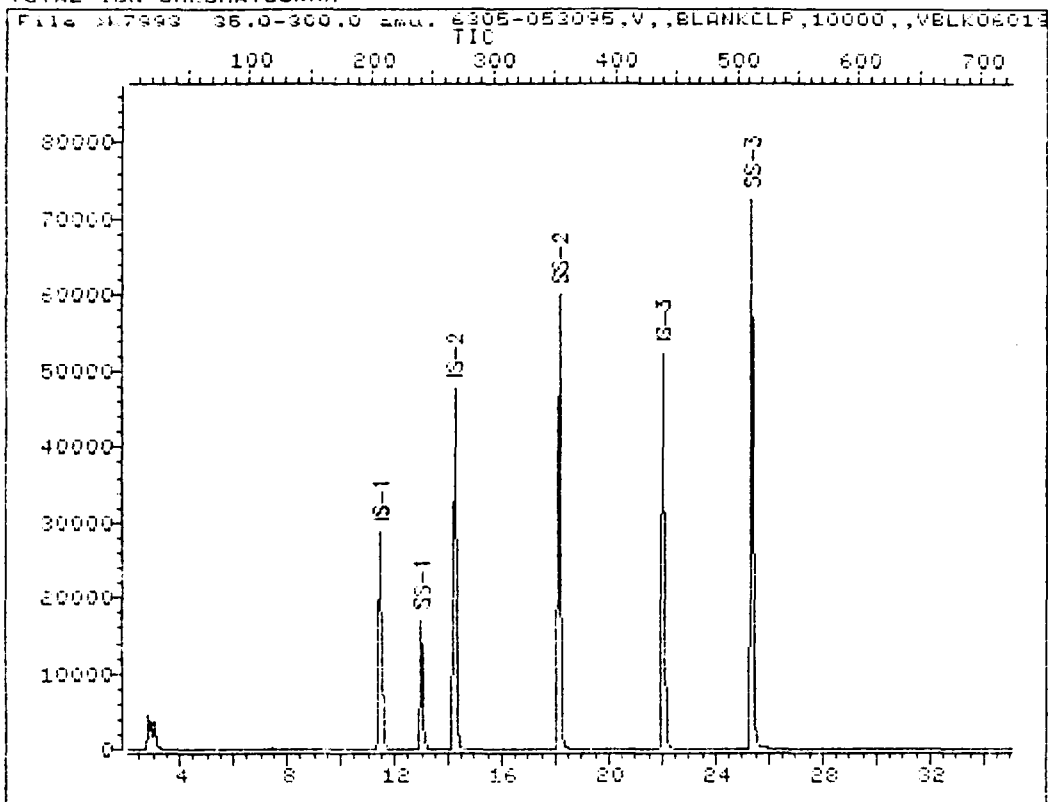
CONCENTRATION UNITS:

Number TICs Found: 0

(ug/L or ug/Kg) UG/L

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

TOTAL ION CHROMATOGRAM



Data File: >K7993::L2

Quant Output File: ^K7993::K2

Name: 6305-053095.V, BLANK

Misc: CLP,10000,,VELK08013K,L,W,ALS1 5ML JPT

ID File: K00A10::DB

Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K

Last Calibration: 950601 14:56

Operator ID: DBHG

Quant Time: 950601 14:57

Injected at: 950601 14:21

QUANT REPORT

Operator ID: DOUG Quant Rev: 6 Quant Time: 950601 14:57
 Input File: ^K7993::K2 Injected at: 950601 14:21
 Data File: >K7993::L2 Dilution Factor: 1.00000
 Name: 6305-053095,U,,BLANK
 Loc: CLP,10000,,VBLK060195K,L,W,ALS1 5ML 0PT

Output File: KUDATID::DR
 Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
 Start Calibration: 950601 14:56

	Compound	R.T.	Q	ion	Area	Conc	Units	q
1	*CI01 BROMOCHLOROMETHANE IS-1	11.43	128.0		39748	50.00	UG/L	97
2	CS15 D4-1,2-DICHLOROETHANE SS1	12.98	65.0		40192	56.22	UG/L	92
	*CI10 1,4-DIFLUOROBENZENE IS-2	14.21	114.0		169588	50.00	UG/L	100
	*CI20 D5-CHLOROBENZENE IS-3	22.00	117.0		133691	50.00	UG/L	100
3	CS05 D-8 TOLUENE (SS-2)	18.13	98.0		147872	54.59	UG/L	89
4	CS10 BROMOFLUOROBENZENE (SS-3)	25.32	174.0		86305	54.81	UG/L	94

* Compound is ISTD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. -

VBLK060395K

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: FD1423

SAS No.:

SDG No:

Matrix: (soil/water) WATER

Lab Sample ID: 6305-053095

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K8048

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 06/03/95

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethane	10	U
78-34-3	1,1-Dichloroethane	10	U
540-52-0	1,2-Dichloroethane (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropene	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VELK060395K

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: FD1422

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 6305-053095

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K8048

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 06/03/95

GC Column: CAP

ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

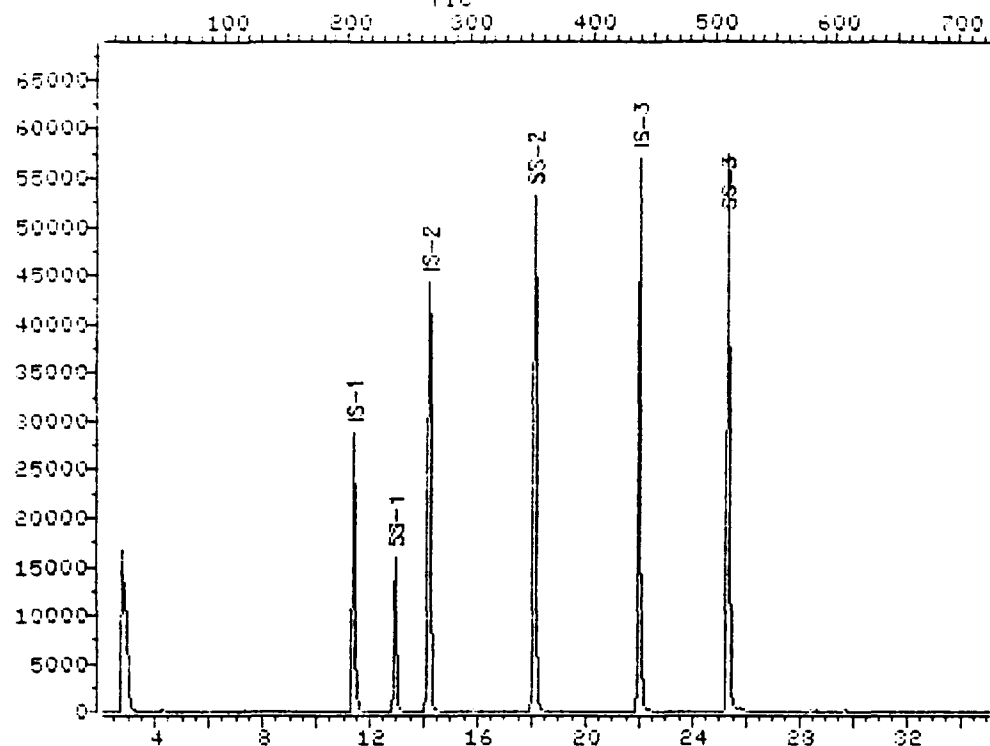
Soil Aliquot Volume: (uL)

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

Number TICs Found: 0

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

TOTAL ION CHROMATOGRAM

File: >K8048 35.0-300.0 amu. 6305-053095.V., BLANKCLP.10000., VELK060395
TIC

Data File: >K8048::L1

Quant Output File: ^K8048::K2

Name: 6305-053095.V., BLANK

Misc: CLP,10000.,VELK060395K,L,W,ALS2 5ML TOM

Id File: K00AID::DB

Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K

Last Calibration: 950603 10:31

Operator ID: DOUG

Quant Time: 950603 11:34

Injected at: 950603 10:58

QUANT REPORT

Operator ID: DOUG Quant Rev: 6 Quant Time: 950603 11:34
 Output File: ^K8048::K2 Injected at: 950603 10:58
 Data File: >K8048::L1 Dilution Factor: 1.00000
 Name: 6305-053095,V,,BLANK
 Misc: CLP,10000,,UBLK060395K,L,W,ALS2 5ML TOM

→D File: KVOAID::DB
 Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
 Last Calibration: 950603 10:31

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 BROMOCHLOROMETHANE IS-1	11.39	128.0	37310	50.00	UG/L	95
20)	CS15 D4-1,2-DICHLOROETHANE SS1	12.94	65.0	38371	45.72	UG/L	89
24)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.17	114.0	157876	50.00	UG/L	100
8)	*CI20 D5-CHLOROBENZENE IS-3	22.00	117.0	124887	50.00	UG/L	100
→3)	CS05 D-8 TOLUENE (SS-2)	18.09	98.0	132649	49.78	UG/L	94
47)	CS10 BROMOFLUOROBENZENE (SS-3)	25.28	174.0	75137	50.04	UG/L	78

→* Compound is ISTD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. _____

VOLK060495K

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: FD1423

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: 6305-053095

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K8081

Level: (low/high) LOW

Date Received: _____

% Moisture: not dec.

Date Analyzed: 06/04/95

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VELKO60495K

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 6305-053095

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K8081

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 06/04/95

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

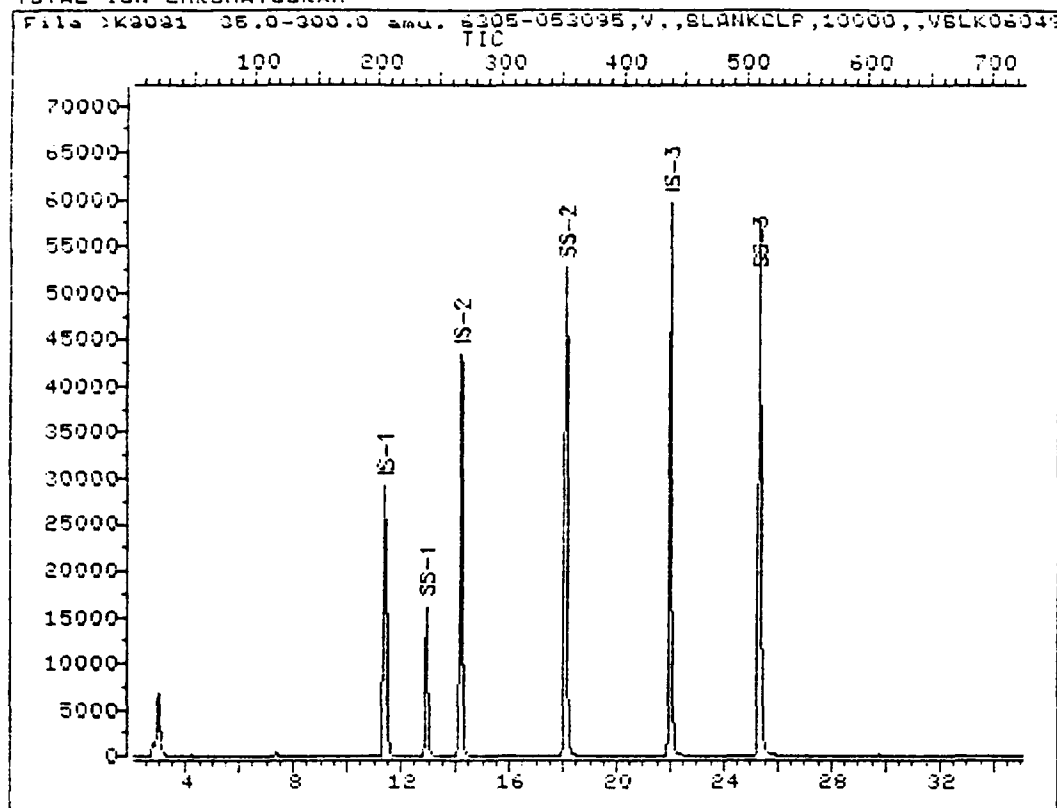
CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

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

TOTAL ION CHROMATOGRAM



Data File: >K8081::L2

Quant Output File: ^K8081::K2

Name: 6305-053095,U.,BLANK

Misc: CLP,10000,,VBLK060495K,L,W,ALS2 5ML TOM

Id File: K00AID::DB

Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K

Last Calibration: 950604 09:29

Operator ID: DOUG

Quant Time: 950604 10:03

Injected at: 950604 09:28

QUANT REPORT

Operator ID: DOUG Quant Rev: 6 Quant Time: 950604 10:03
 Output File: ^K8081::K2 Injected at: 950604 09:28
 Data File: >K8081::L2 Dilution Factor: 1.00000
 Name: 6305-053095,U,,BLANK
 Disc: CLP,10000,,VBLK060495K,L,W,ALS2 5ML TOM

ID File: KVOAID::DB
 Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
 Last Calibration: 950604 09:28

	Compound	R.T.	Q ion	Area	Conc	Units	q
-1)	*CI01 BROMOCHLOROMETHANE IS-1	11.38	128.0	38093	50.00	UG/L	95
8)	C030 METHYLENE CHLORIDE	7.37	84.0	968	1.39	UG/L	76
3)	CS15 D4-1,2-DICHLOROETHANE SS1	12.93	65.0	38840	48.96	UG/L	90
4)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.16	114.0	160914	50.00	UG/L	100
38)	*CI20 D5-CHLOROBENZENE IS-3	22.00	117.0	132914	50.00	UG/L	100
3)	CS05 D-8 TOLUENE (SS-2)	18.08	98.0	135301	49.44	UG/L	90
7)	CS10 BROMOFLUOROBENZENE (SS-3)	25.28	174.0	75123	50.37	UG/L	78

* Compound is ISTD

3D(3). MATRIX SPIKE DATA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

721130W2DMS

Lab Name: CAMBRO

Contract: GEI

Lab Code: CAMBRO

Case No.: FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124146MS

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: KB084

Level: (low/med) LOW

Date Received: 05/26/95

% Moisture: not dec.

Date Analyzed: 06/04/95

GC Column: CAP

ID: 0.530 (mm)

Dilution Factor: 10.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	Dichloromethane	14	U
67-61-1	Acetone	100	U
75-15-0	Carbon Disulfide	100	U
75-35-8	1,1-Dichloroethene	560	
75-34-3	1,1-Dichloroethane	160	
340-59-0	1,2-Dichloroethene (total)	1200	
67-66-3	Chloroform	100	U
107-06-2	1,2-Dichloroethane	180	
75-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon Tetrachloride	100	U
75-27-4	Bromodichloromethane	100	U
75-37-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
79-01-6	Trichloroethene	500	
124-48-1	Dibromochloromethane	100	U
79-00-5	1,1,2-Trichloroethane	100	U
71-43-2	Benzene	490	
10061-02-6	trans-1,3-Dichloropropene	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-Pentanone	100	U
591-78-6	2-Hexanone	100	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-88-3	Toluene	490	
108-90-7	Chlorobenzene	490	
100-41-4	Ethylbenzene	100	U
100-42-5	Styrene	100	U
1330-20-7	Xylene (total)	100	U



QUANT REPORT

Operator ID: DOUG Quant Rev: 6 Quant Time: 950601 17:47
 Output File: ^K7997::K2 Injected at: 950601 17:11
 Data File: >K7997::L2 Dilution Factor: 1.00000
 Name: 124047,U,,GEI
 Misc: CLP,FD1423,,92113-LGAW-0595MS,L,A,ALS5 5ML JPT .01918

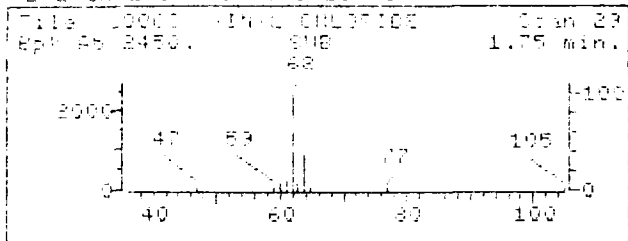
ID File: KVOAID::DB
 Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
 Last Calibration: 950601 14:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 BROMOCHLOROMETHANE IS-1	11.48	128.0	36980	50.00	UG/L	95
4)	C020 VINYL CHLORIDE	3.92	62.0	7905	32.00	UG/L	95
11)	C045 1,1-DICHLOROETHENE	6.24	96.0	28093	49.09	UG/L	80
12)	C050 1,1-DICHLOROETHANE	9.29	63.0	26767	24.24	UG/L	96
17)	C053 TOTAL-1,2-DICHLOROETHENE	10.84	96.0	10837M	13.71	UG/L	79
19)	C065 1,2-DICHLOROETHANE	13.21	62.0	3105	4.39	UG/L	97
20)	CS15 D4-1,2-DICHLOROETHANE SS1	12.98	65.0	35096	52.76	UG/L	90
24)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.21	114.0	153644	50.00	UG/L	100
32)	C150 TRICHLOROETHENE	14.89	130.0	55473	46.55	UG/L	94
35)	C165 BENZENE	13.16	78.0	96276	57.12	UG/L	100
38)	*CI20 D5-CHLOROBENZENE IS-3	22.00	117.0	126671	50.00	UG/L	100
39)	C205 4-METHYL-2-PENTANONE	17.86	43.0	3653	9.12	UG/L	97
43)	CS05 D-8 TOLUENE (SS-2)	18.13	98.0	124372	48.46	UG/L	90
44)	C230 TOLUENE	18.31	91.0	147661	61.25	UG/L	98
45)	C235 CHLOROBENZENE	22.09	112.1	100643	45.97	UG/L	87
46)	C240 ETHYL BENZENE	22.46	106.0	62826	66.65	UG/L	97
47)	CS10 BROMOFLUOROBENZENE (SS-3)	25.32	174.0	72503	48.60	UG/L	93
51)	C250 TOTAL XYLENES	22.77	106.0	38414M	32.23	UG/L	92

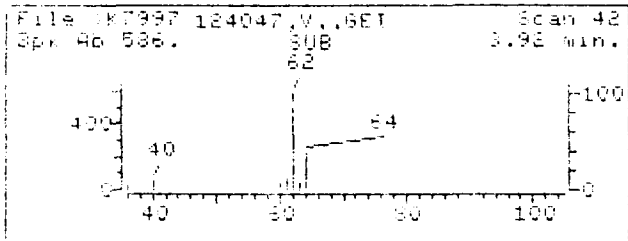
* Compound is ISTD

6-6-95
 mh

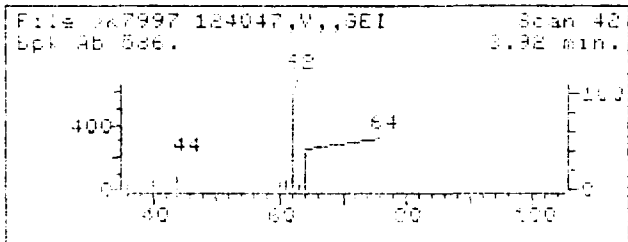
REFERENCE STANDARD SPECTRUM



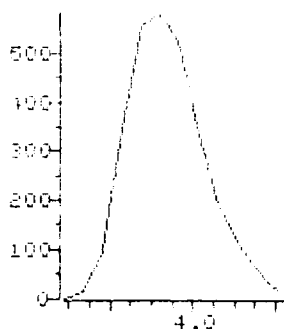
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



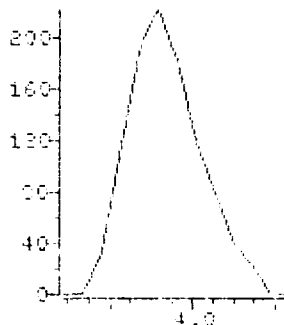
SAMPLE SPECTRUM (UNALTERED)



File: K7997 61.7-63.7 am



File: K7997 63.7-64.7 am



Data File: K7997:K2

Quant Output File: K7997:K2

File: 124047.V.,.6E1

File: CLP,FD1425,92115-LGHW-0595MS,L.A,GLSS ENL CPT 101918

Quant Time: 950601 17:47

Quant ID File: KUCID:06

Injected at: 950601 17:11

Last Calibration: 950601 14:56

Compound No: 4

Compound Name: C02: VINYL CHLORIDE

Scan Number: 42

Retention Time: 3.92 min.

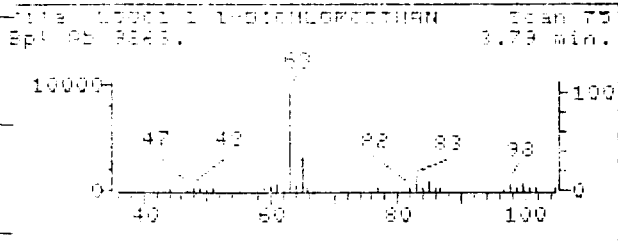
Quant Ion: 62.0

Area: 7905

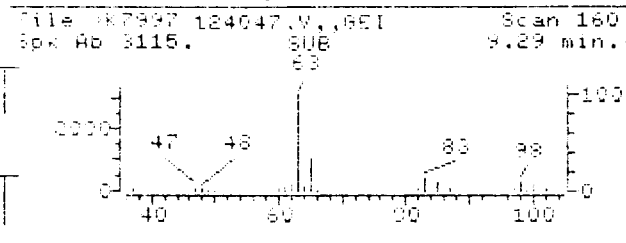
Concentration: 52.00 UG/L

q-value: 9%

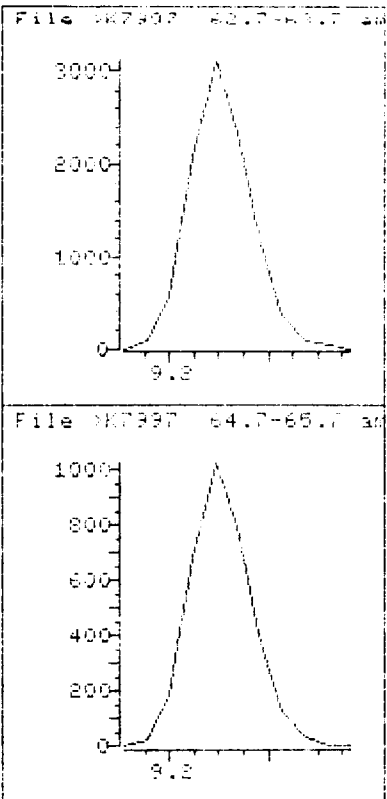
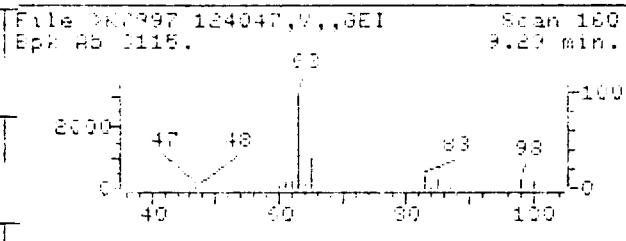
REFERENCE SPECTRUM SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



AMPLE SPECTRUM (UNALTERED)



Data File: >K7997:112

Quant Output File: >K7997:112

File: 124047.V, .GE1

Method: FID, F014.3, 22113-LRMW-0595MS, 1, A, 40.95. 518. 3PT 101918

Start Time: 950401 17:47

Quant ID File: KUPR19:115

Injected At: 950401 17:11

Last Calibration: 950501 14:46

Compound No: 12

Compound Name: 0050 1,1-DICHLOROETHANE

Scan Number: 160

Retention Time: 9.29 min.

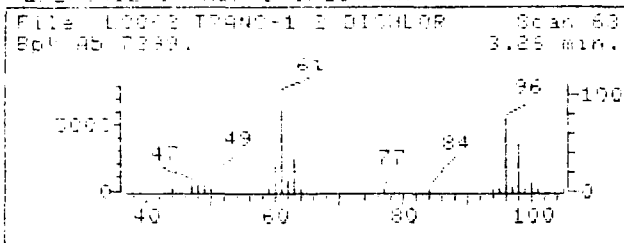
Quant Ion: 311.0

Area: 26767

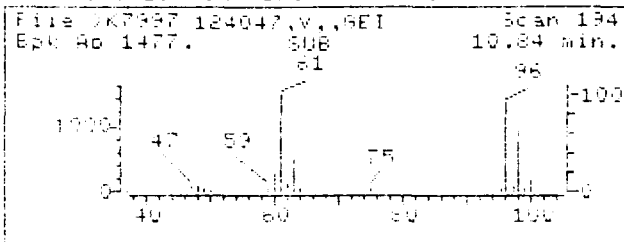
Concentration: 24.24 ug/L

Recovery: 96

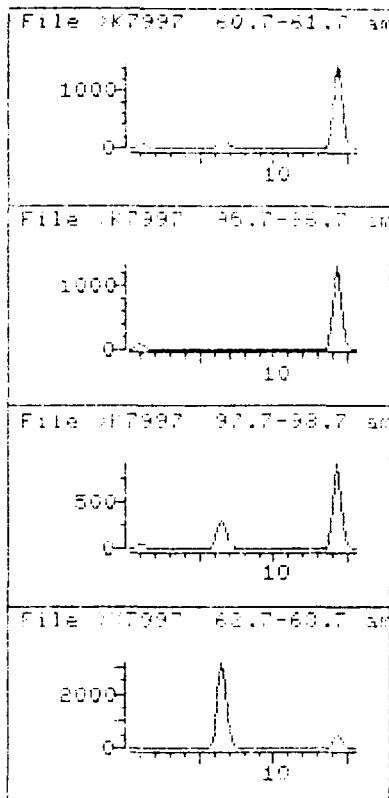
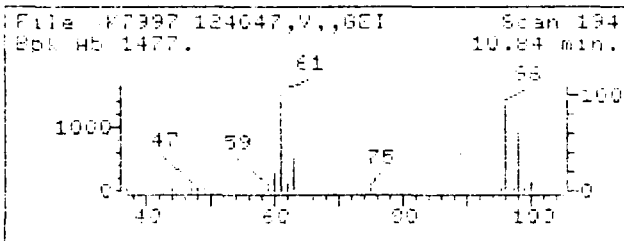
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM UNALTERED



Data File: K7997:K2

Quant Output File: K7997:K2

Name: 124047.V.,GEI

Misc: CLP,FD1423,,92113-L38W-05994S,L,A,AL55 5ML JPT 01918

Quant Time: 950601 17:47

Quant ID File: K00AID:DE

Injected at: 950601 17:11

Last Calibration: 950601 14:56

Compound No: 17

Compound Name: 0053 TOTAL-1,2-DICHLOROETHENE

Scan Number: 194

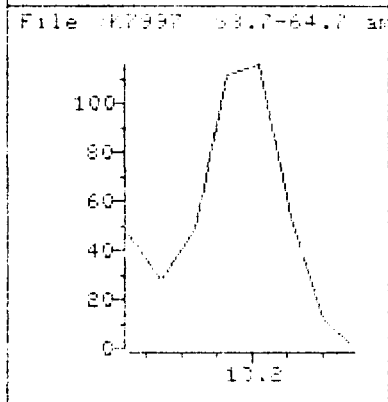
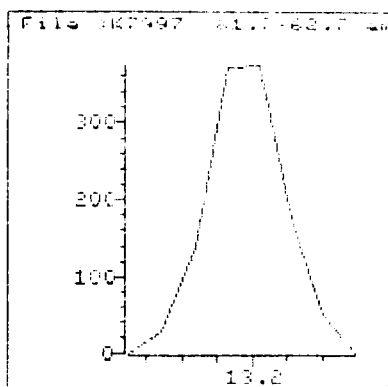
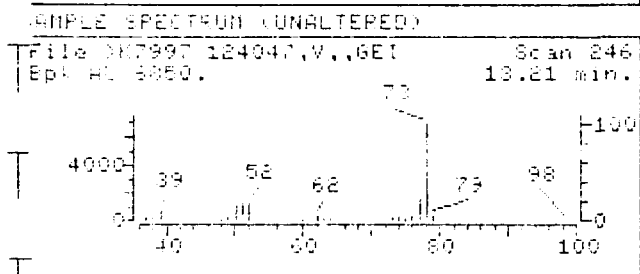
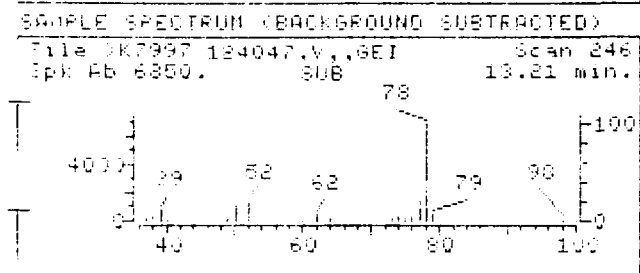
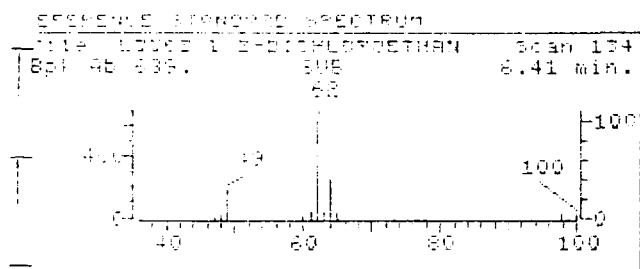
Retention Time: 10.84 min.

Quant Ion: 96.0

Area: 19817M

Concentration: 15.71 UG/L

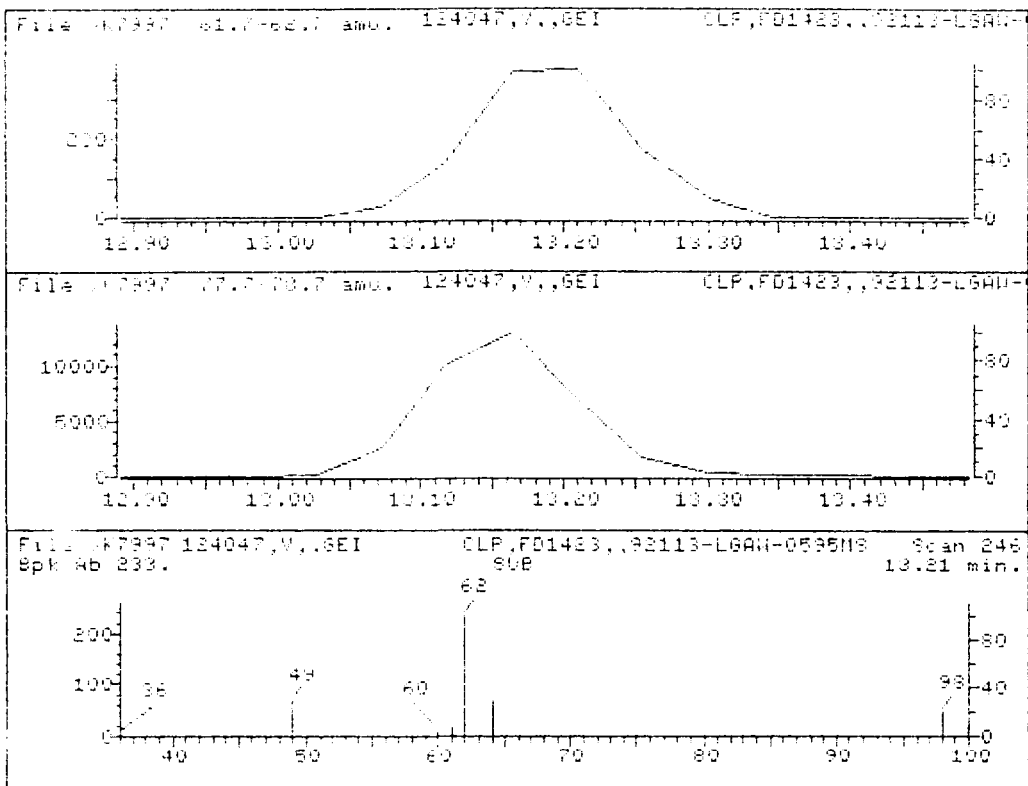
q-value: 79



Data File: BK7997:112 Quant Output File: BK7997:112
 Name: 124047.V.,GEI
 Name: CIP.FD14251,92113-104W-0595MS.D,A,B,SC,CHL CPE 101218
 Event Time: 950601 12:00 Quant ID File: R00R105128
 Injected At: 950601 12:11 Last Calibration: 950601 14:56

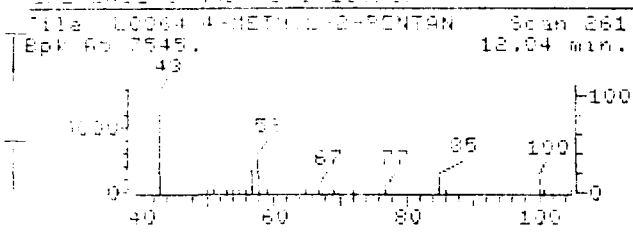
Compound Ref: 12
 Compound Name: E965 1,2-DICHLOROETHANE
 Scan Number: 246
 Retention Time: 13.21 min.
 Mass Time: 62.6
 Peak: 1105
 Concentration: 4.39 ug/L
 Quality: 97

✓ →
 Cleaned spectra

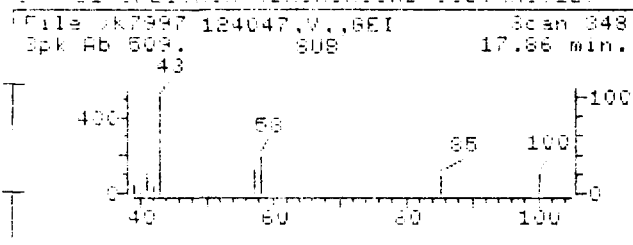


1.2 DEC

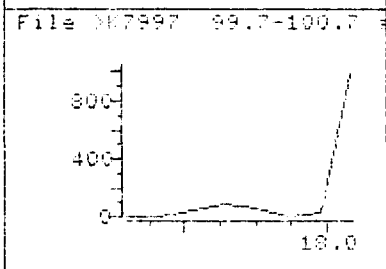
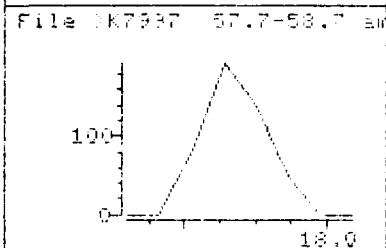
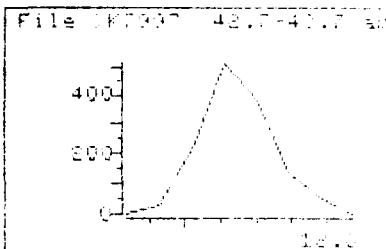
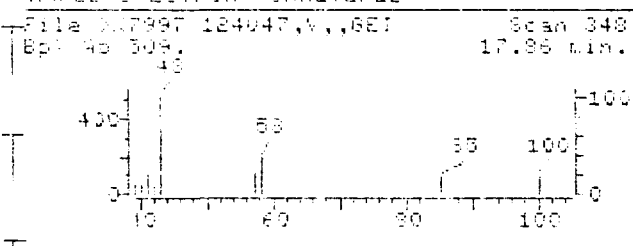
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



RAW SPECTRUM (UNALTERED)



Data File: BK7997::L2

Quant Output File: BK7997::K2

Name: 124047.V.,GEI

Nisc: CLP,FD1423,,92113-LEAW-05950S,L,A,ALSS 5ML JPT .01918

Count Time: 250601 17:47

Quant ID File: K00A10::00

Injected at: 250601 17:11

Last Calibration: 250601 14:56

Compound No: 39

Compound Name: C205 4-METHYL-2-PENTANONE

Scan Number: 348

Retention Time: 17.86 min.

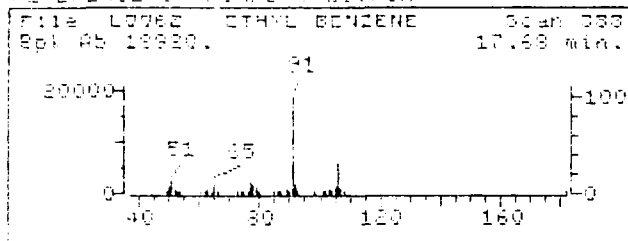
Quant Ion: 43.0

Area: 3653

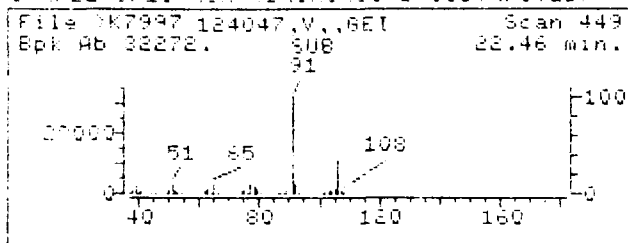
Concentration: 9.12 UG/L

q-value: 97

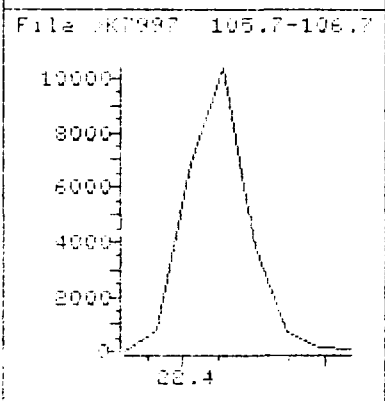
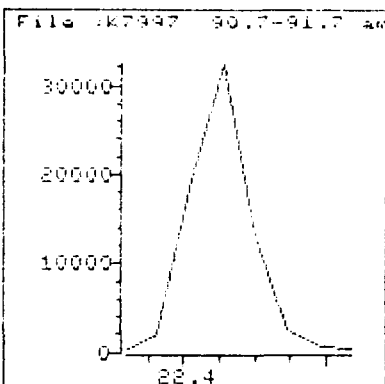
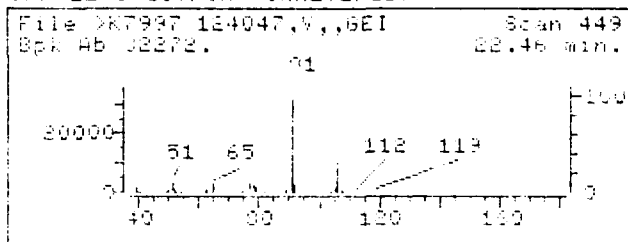
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K7997:112

Quant Output File: >K7997:112

Name: 124047.V, .6E1

Mass: C10H14N3, 92113-188W-652503, 1, 0.0185 5M 3PT 1.01218

Quant Time: 950601 17:47

Quant ID File: K00A10:00

Injected at: 950601 17:11

Last Calibration: 950601 14:56

Compound No: 46

Compound Name: C10H14N3 ETHYL BENZENE

Scan Number: 449

Retention Time: 22.46 min.

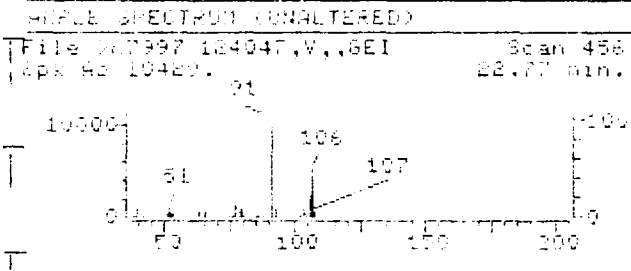
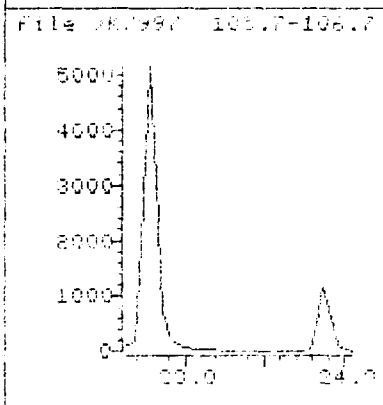
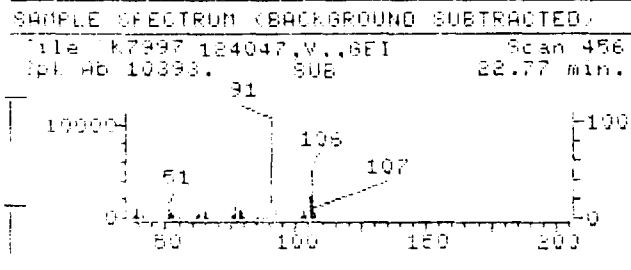
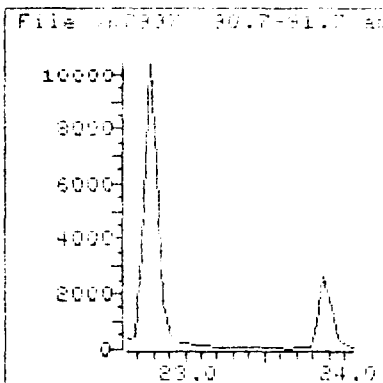
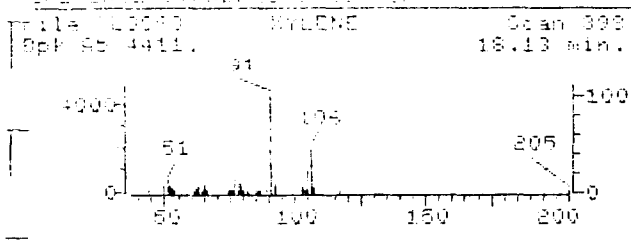
Quant Ion: 106.0

Area: 32272

Concentration: 66.66 UG/L

Quality: 92

REFERENCE STANDARD SPECTRUM



Data File: K7997::L2 Quant Output File: K7997::K2
 Name: 124047.V.,.SEI
 Mix: CLP,FD1423,,32113-LSHW-0595MS,L,A,ALSS 5ML JPT .01918
 Quant Time: 250601 17:47 Quant ID File: L90AID::BB
 Injected at: 950601 17:11 Last Calibration: 250601 14:56

Compound No: 51
 Compound Name: C250 TOTAL XYLENES
 Scan Number: 456
 Retention Time: 22.77 min.
 Quant loc: 104.0
 Area: 184148
 Concentration: 32.23 BGL
 q-value: 22

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. —

721130W2DMS

Lab Name: CAMBRO

Contract: GEI

Lab Code: CAMBRO

Case No.: FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124146MS

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K8084

Level: (low/med) LOW

Date Received: 05/26/95

% Moisture: not dec.

Date Analyzed: 06/04/95

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 10.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	Methylene Chloride	14	BJ
67-64-1	Acetone	100	U
75-15-0	Carbon Disulfide	100	U
75-35-4	1,1-Dichloroethane	560	
75-34-3	1,1-Dichloroethane	160	
540-59-0	1,2-Dichloroethene (total)	1200	
67-66-3	Chloroform	100	U
107-06-2	1,2-Dichloroethane	180	
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon Tetrachloride	100	U
75-27-4	Bromodichloromethane	100	U
78-67-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
79-01-6	Trichloroethene	500	
124-48-1	Dibromochloromethane	100	U
79-00-5	1,1,2-Trichloroethane	100	U
71-43-2	Benzene	490	
10061-02-6	trans-1,3-Dichloropropene	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-Pentanone	100	U
591-78-6	2-Hexanone	100	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-88-3	Toluene	490	
108-90-7	Chlorobenzene	490	
100-41-4	Ethylbenzene	100	U
100-42-5	Styrene	100	U
1330-20-7	Xylene (total)	100	U

QUANT REPORT

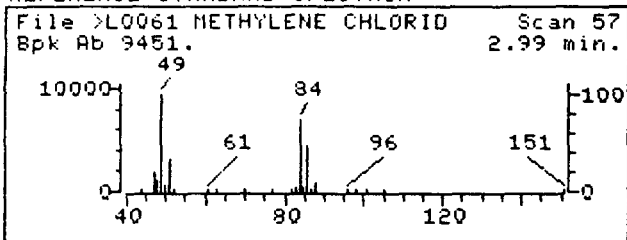
Operator ID: DOUG Quant Rev: 6 Quant Time: 950604 12:58
Output File: ^K8084::K2 Injected at: 950604 12:02
Data File: >K8084::L2 Dilution Factor: 1.00000
Name: 124146MS ,U,EPA,GEI
Misc: CLP,FD 1423,,92113-0W2D-0595 MS ,L,W,ALS2 1:10 TOM

ID File: KVOAID::DB
Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
Last Calibration: 950604 12:56

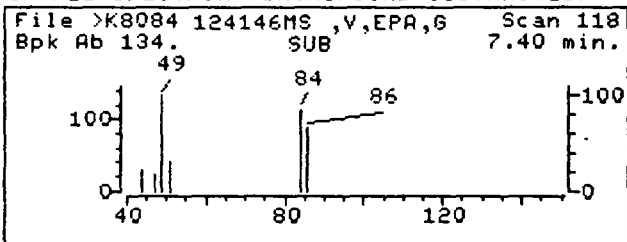
	Compound	R.T.	Q	ion	Area	Conc	Units	q
1)	*CI01 BROMOCHLOROMETHANE IS-1	11.41	128.0		36934	50.00	UG/L	95
8)	C030 METHYLENE CHLORIDE	7.40	84.0		978	1.45	UG/L	82
11)	C045 1,1-DICHLOROETHENE	6.22	96.0		31208	55.49	UG/L	80
12)	C050 1,1-DICHLOROETHANE	9.27	63.0		16833	15.54	UG/L	98
17)	C053 TOTAL-1,2-DICHLOROETHENE	10.82	96.0		94677	119.64	UG/L	85
19)	C065 1,2-DICHLOROETHANE	13.15	62.0		14342	17.89	UG/L	92
20)	CS15 D4-1,2-DICHLOROETHANE SS1	12.96	65.0		37031	48.14	UG/L	91
24)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.19	114.0		157029	50.00	UG/L	100
32)	C150 TRICHLOROETHENE	14.88	130.0		60721	50.43	UG/L	91
35)	C165 BENZENE	13.15	78.0		89295	49.37	UG/L	100
38)	*CI20 D5-CHLOROBENZENE IS-3	21.98	117.0		125232	50.00	UG/L	100
43)	CS05 D-8 TOLUENE (SS-2)	18.11	98.0		130451	50.59	UG/L	90
44)	C230 TOLUENE	18.29	91.0		116552	48.84	UG/L	96
45)	C235 CHLOROBENZENE	22.08	112.1		106111	48.81	UG/L	90
47)	CS10 BROMOFLUOROBENZENE (SS-3)	25.31	174.0		71113	50.60	UG/L	88

* Compound is ISTD

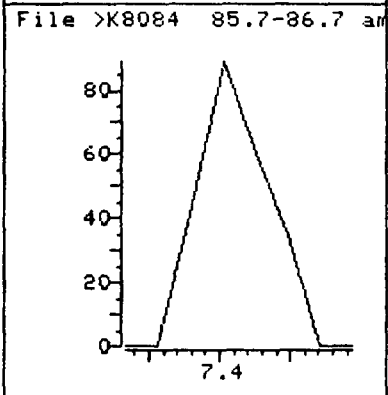
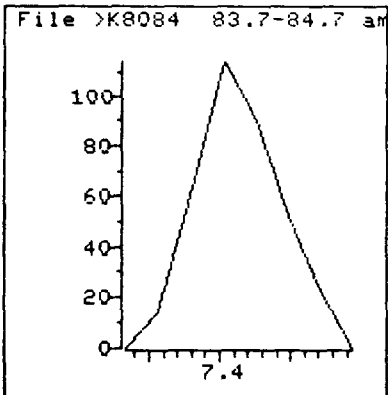
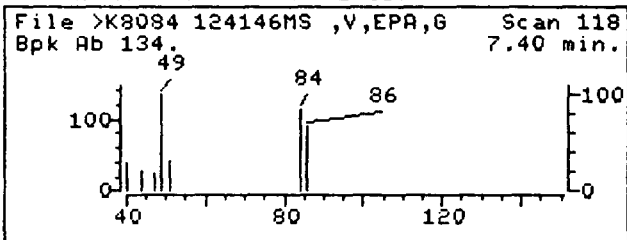
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8084::L2

Quant Output File: ^K8084::K2

Name: 124146MS ,V,EPA,GEI

Misc: CLP,FD 1423,,92113-0W2D-0595 MS ,L,W,ALS2 1:10 TOM

Quant Time: 950604 12:58

Quant ID File: KU0AID::DB

Injected at: 950604 12:02

Last Calibration: 950604 12:56

Compound No: 8

Compound Name: C030 METHYLENE CHLORIDE

Scan Number: 118

Retention Time: 7.40 min.

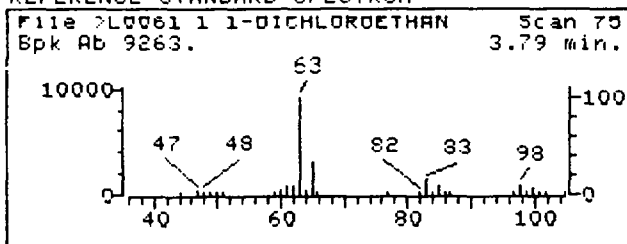
Quant Ion: 84.0

Area: 978

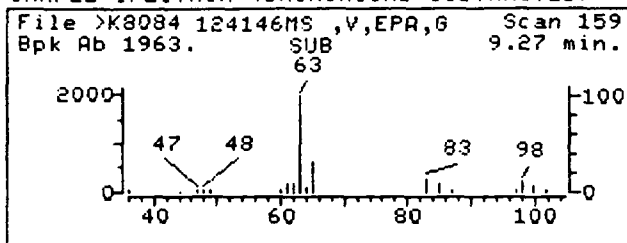
Concentration: 1.45 UG/L

q-value: 82

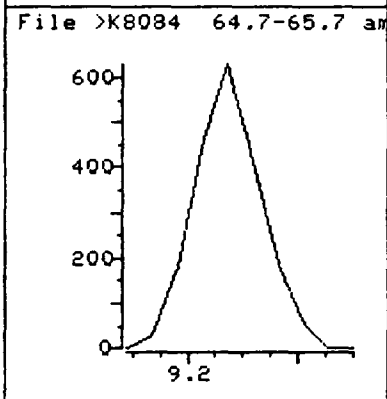
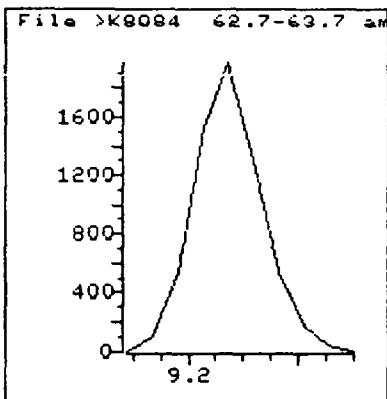
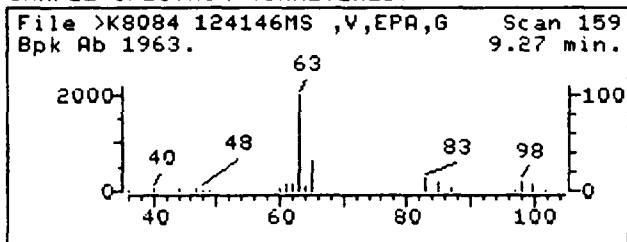
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8084::L2

Quant Output File: ^K8084::K2

Name: 124146MS ,V,EPA,GEI

Misc: CLP,FD 1423,,92113-0W2D-0595 MS ,L,W,ALS2 1:10 TOM

Quant Time: 950604 12:58

Quant ID File: KU0AID::DB

Injected at: 950604 12:02

Last Calibration: 950604 12:56

Compound No: 12

Compound Name: C050 1,1-DICHLOROETHANE

Scan Number: 159

Retention Time: 9.27 min.

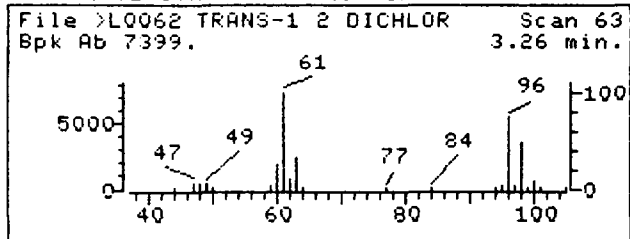
Quant Ion: 63.0

Area: 16833

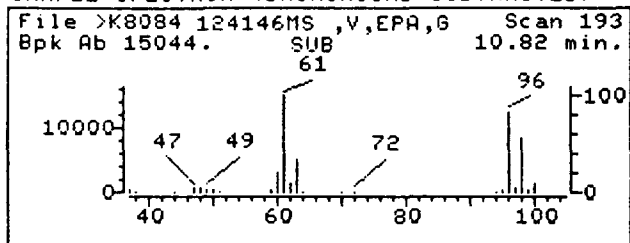
Concentration: 15.54 UG/L

q-value: 98

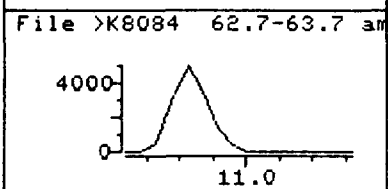
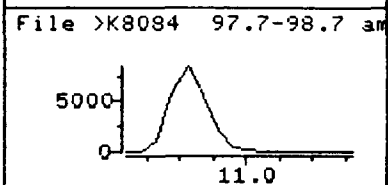
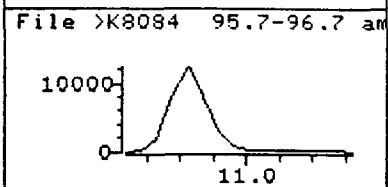
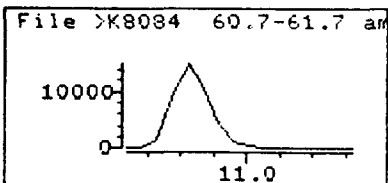
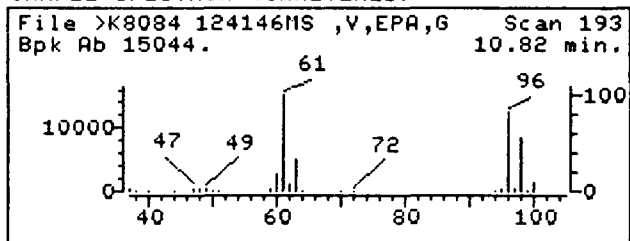
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8084::L2

Quant Output File: ^K8084::K2

Name: 124146MS ,V,EPA,GEI

Misc: CLP,FD 1423,,92113-0W2D-0595 MS ,L,W,ALS2 1:10 TOM

Quant Time: 950604 12:58

Quant ID File: KVOAID::DB

Injected at: 950604 12:02

Last Calibration: 950604 12:56

Compound No: 17

Compound Name: C053 TOTAL-1,2-DICHLOROETHENE

Scan Number: 193

Retention Time: 10.82 min.

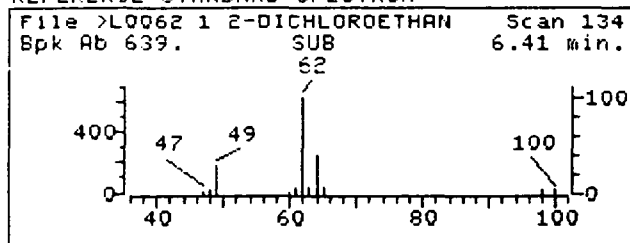
Quant Ion: 96.0

Area: 94677

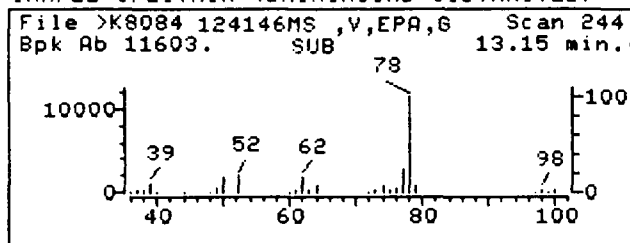
Concentration: 119.64 UG/L

q-value: 85

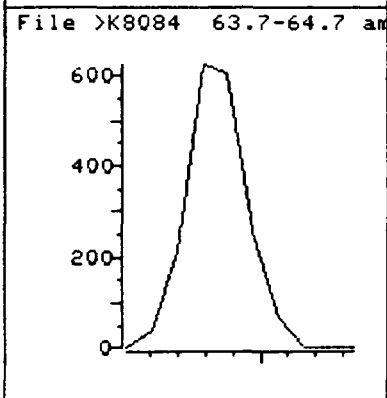
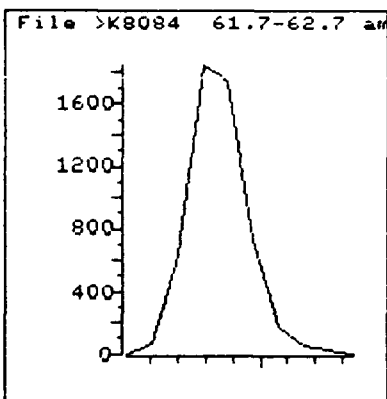
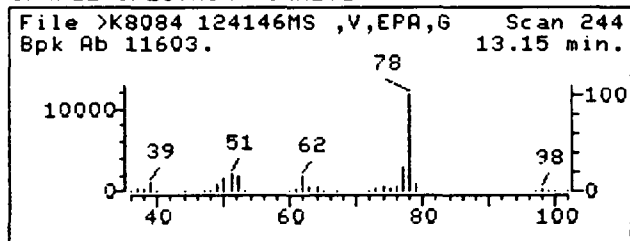
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8084::L2

Quant Output File: ^K8084::K2

Name: 124146MS ,V,EPA,GEI

Misc: CLP,FD 1423,,92113-0W2D-0595 MS ,L,W,ALS2 1:10 TOM

Quant Time: 950604 12:58

Quant ID File: KVOAID::DB

Injected at: 950604 12:02

Last Calibration: 950604 12:56

Compound No: 19

Compound Name: C065 1,2-DICHLOROETHANE

Scan Number: 244

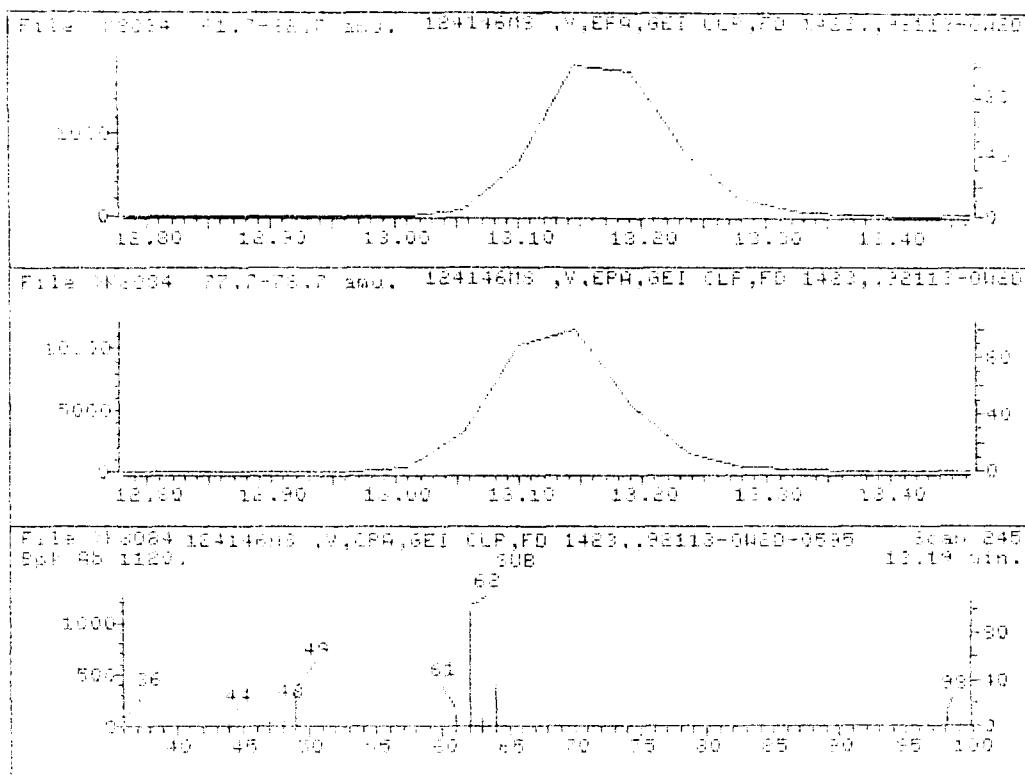
Retention Time: 13.15 min.

Quant Ion: 62.0

Area: 14342

Concentration: 17.89 UG/L

q-value: 92



12000

3D(4) . MATRIX SPIKE DUPL.DATA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

92113LGAWMSD

Lab Name: CAMBRG

Contract: GEI

Lab Code: CAMBRG

Case No.: FD1423

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 124047MSD

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K7998

Level: (low/med) LOW

Date Received: 05/25/95

% Moisture: not dec

Date Analyzed: 06/01/95

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-7	Bromomethane	10	U
75-01-4	Vinyl Chloride	31	
75-00-0	Chloroethane	4	U
75-07-2	Diethylene Chloride	10	U
57-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	50	
75-34-3	1,1-Dichloroethane	24	
540-59-0	1,2-Dichloroethene (total)	13	Y
57-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	4	U
78-90-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	46	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	55	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	9	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	62	B
108-90-7	Chlorobenzene	46	
100-41-4	Ethylbenzene	63	
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	32	Y

QUANT REPORT

Operator ID: DOUG Quant Rev: 6 Quant Time: 950601 18:26
 Output File: ^K7998::K2 Injected at: 950601 17:50
 Data File: >K7998::L2 Dilution Factor: 1.00000
 Name: 124047,U,,GEI
 Misc: CLP,FD1423,,92113-LGAW-0595MSD,L,A,ALS6 5ML JPT .01918

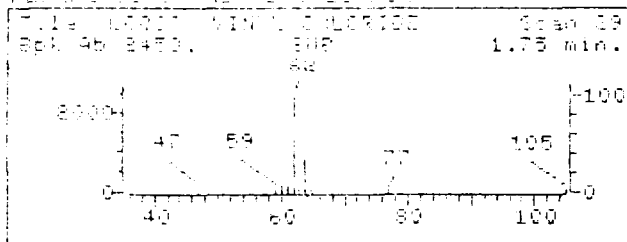
ID File: KVOAID::DB
 Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
 Last Calibration: 950601 14:56

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*CI01 BROMOCHLOROMETHANE IS-1	11.43	128.0	38474	50.00	UG/L	96
4)	C020 VINYL CHLORIDE	3.92	62.0	7908	30.76	UG/L	97
5)	C025 CHLOROETHANE	4.65	64.0	838	3.59	UG/L	76
11)	C045 1,1-DICHLOROETHENE	6.20	96.0	29755	49.97	UG/L	69
12)	C050 1,1-DICHLOROETHANE	9.29	63.0	27346	23.80	UG/L	98
17)	C053 TOTAL-1,2-DICHLOROETHENE	10.84	96.0	10820M	13.15	UG/L	87
19)	C065 1,2-DICHLOROETHANE	13.16	62.0	2920	3.97	UG/L	98
20)	CS15 D4-1,2-DICHLOROETHANE SS1	12.98	65.0	37290	53.89	UG/L	87
24)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.21	114.0	160804	50.00	UG/L	100
32)	C150 TRICHLOROETHENE	14.89	130.0	57037	45.73	UG/L	91
35)	C165 BENZENE	13.16	78.0	97366	55.20	UG/L	100
38)	*CI20 D5-CHLOROBENZENE IS-3	22.00	117.0	128582	50.00	UG/L	100
39)	C205 4-METHYL-2-PENTANONE	17.85	43.0	3771	9.27	UG/L	96
43)	CS05 D-8 TOLUENE (SS-2)	18.13	98.0	132415	50.83	UG/L	93
44)	C230 TOLUENE	18.31	91.0	151663	61.97	UG/L	99
45)	C235 CHLOROBENZENE	22.09	112.1	102922	46.31	UG/L	90
46)	C240 ETHYL BENZENE	22.45	106.0	60487	63.21	UG/L	99
47)	CS10 BROMOFLUOROBENZENE (SS-3)	25.32	174.0	79151	52.27	UG/L	93
51)	C250 TOTAL XYLENES	22.77	106.0	38572M	31.88	UG/L	97

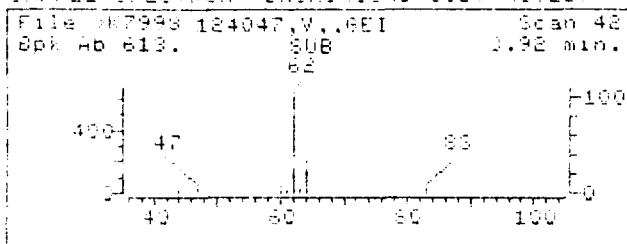
* Compound is ISTD

6-6-95
 m

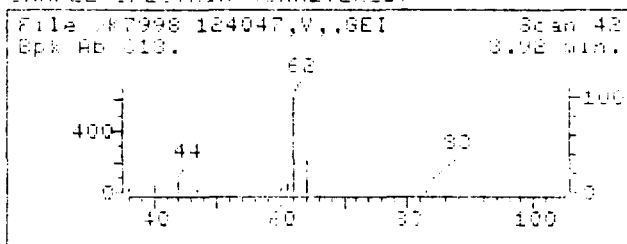
REFERENCE STANDARD SPECTRUM



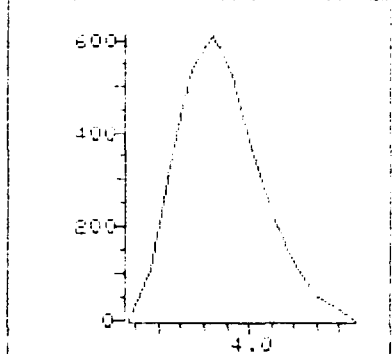
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



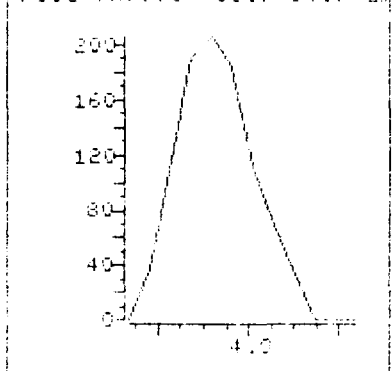
SAMPLE SPECTRUM (UNALTERED)



File: 187998 61.7-62.7 am



File: 187998 63.7-64.7 am



Data File: 187998::L2

Quant Output File: 187998::K2

Name: 124047.V, .GEI

File: CLP.FD1423,,92113-LO.M-C595MSD.L,A,ALS6 5ML 3PT .01919

Quant Time: 950601 18:26

Quant ID File: K000ID::DE

Injected at: 950601 17:50

Last Calibration: 950601 14:54

Compound No: 1

Compound Name: C020 VINYL CHLORIDE

Scan Number: 42

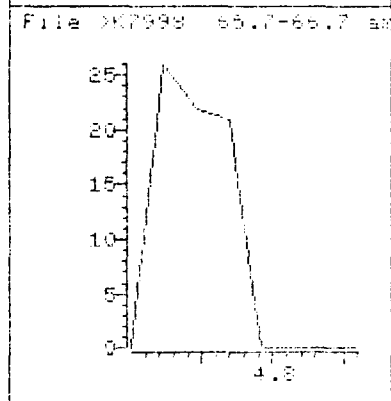
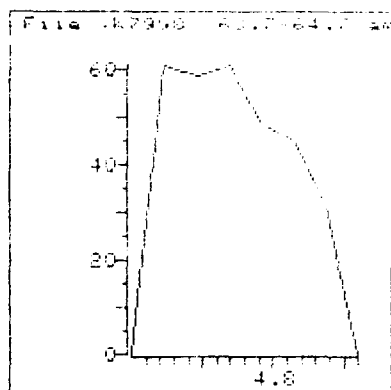
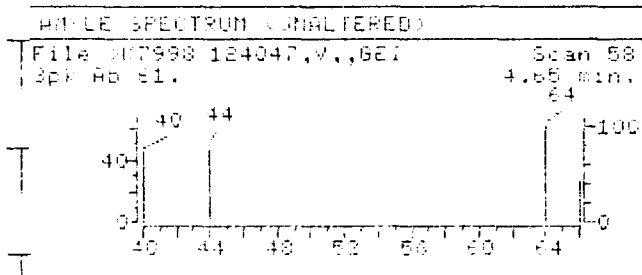
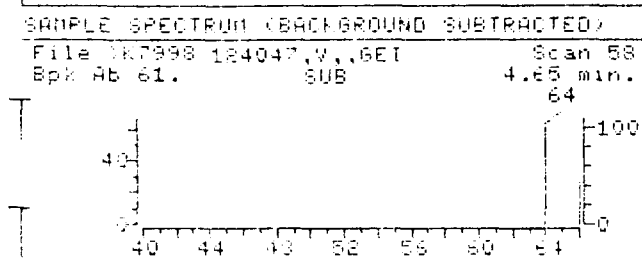
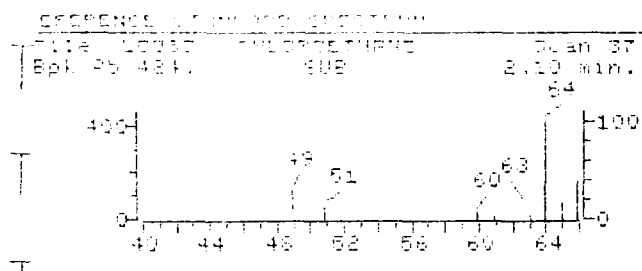
Retention Time: 3.92 min.

Quant Ion: 62.0

Area: 7708

Concentration: 30.76 US/L

qvalue: 97



Data File: 127998:12

Quant. Report File: 127998:12

Sample: 1000000.0111

File: 01PL051423, 20113-1592-0595MSD.1, 8.01 S, 500 327 101918

Acq. Time: 250601 10:26

Quant. File: 800010:05

Injected Am: 250601 17:50

Last Calibration: 250601 14:55

Prepared By: 5

Compound Name: 1025 CHLOROPETHANE

Scan Number: 58

Retention Time: 4.65 min.

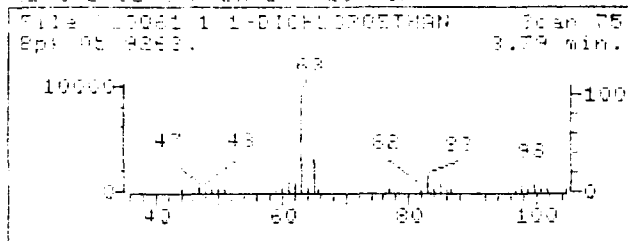
Quant. Time: 64.0

Area: 838

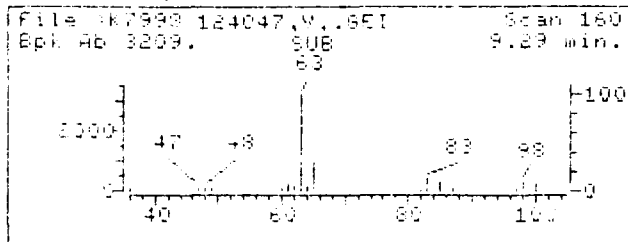
Concentration: 3.69 NG/L

Quality: 76

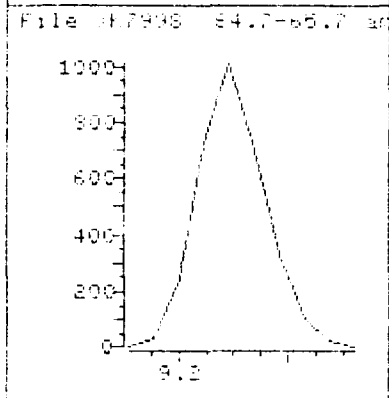
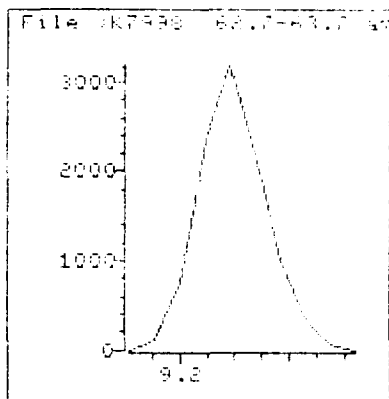
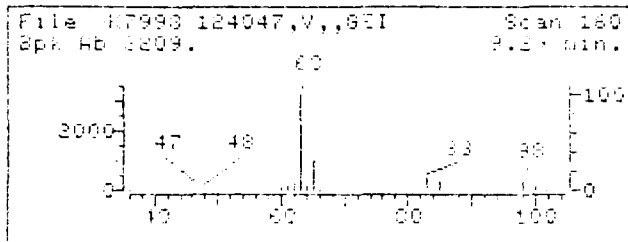
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: K7998::L2

Quant Output File: K7998::L2

Name: 124047.V.051

Disc: CL2, 801423, 92113-L660-0595MSB, L.A., ALSS 5ML CFF 101918

Quant Time: 950601 19:35

Quant ID File: K00AID::DE

Injected at: 950601 17:50

Last Calibration: 950601 19:36

Compound ID: 12

Compound Name: C950 1,1-DICHLOROETHANE

Scan Number: 160

Retention Time: 9.29 min.

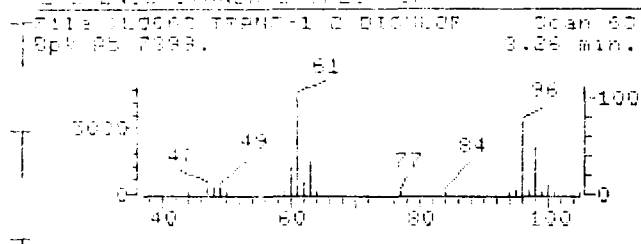
Quant Ion: 63.0

Area: 17366

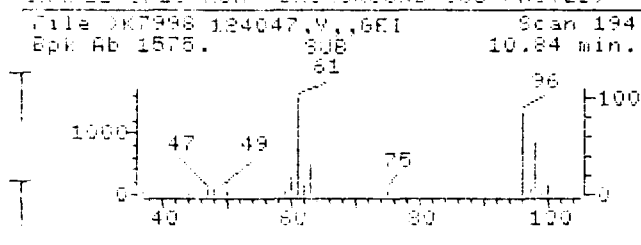
Concentration: 23.96 ug/L

q-value: 99

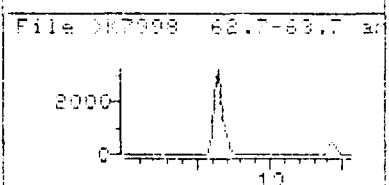
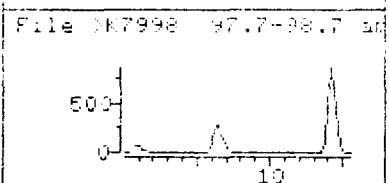
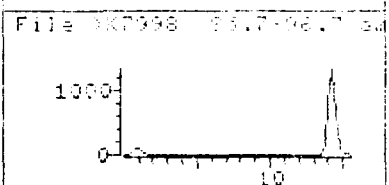
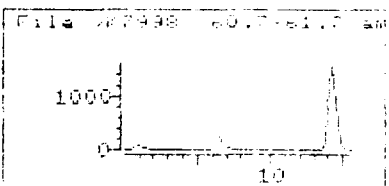
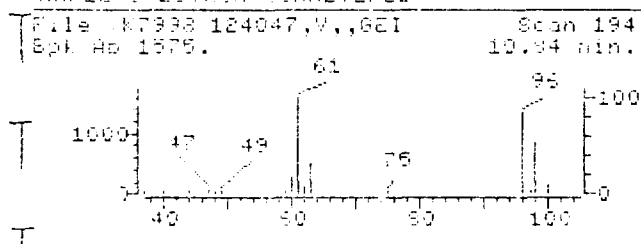
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: MK7998:17

Quant Output File: MK7998:18

Name: 124047.V, 6EI

Mass: CLP,FD1423, 92113-LSAW-0595MSD.L, A,ALISA 5M: JPT 161218

Acq. Time: 950601 18:26

Quant ID File: 100810:18

Injected Ab: 950601 17:59

Last Calibration: 950601 14:25

Compound Id: 17

Compound Name: 0053 TOTAL 1,1,2-TRICHLOROETHENE

Scan Number: 124

Retention Time: 10.84 min.

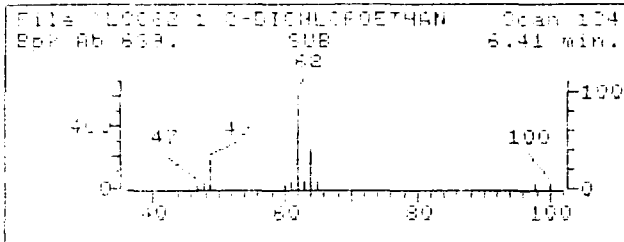
Scan Time: 26.0

Area: 108201

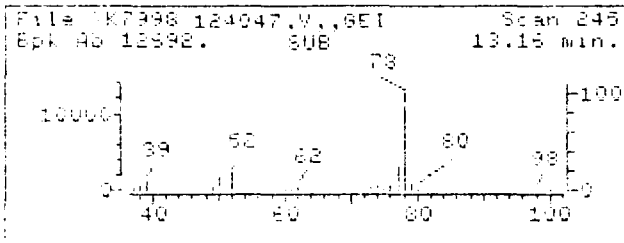
Concentration: 13.15 ug/l

Quality: 87

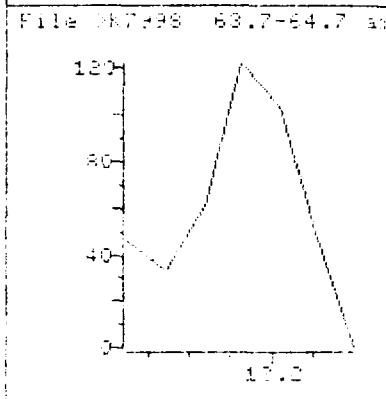
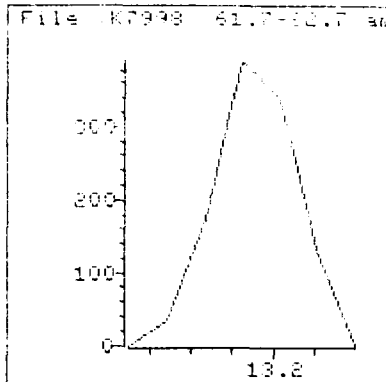
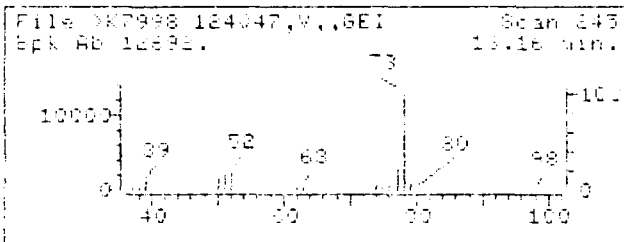
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: K7998:12

Quant Output File: K7998:12

Name: 124047.V., 6E1

File: CLP,FD1423,,52113-LS,0-0595MSD,L,0,AL36 DNL JPF 101918

Quant Time: 250601 18:26

Quant ID File: H00AID:DB

Injected at: 250601 17:56

Last Calibration: 250601 14:56

Compound No: 19

Compound Name: 0065 1,2-DICHLOROETHANE

Scan Number: 245

Retention Time: 13.16 min.

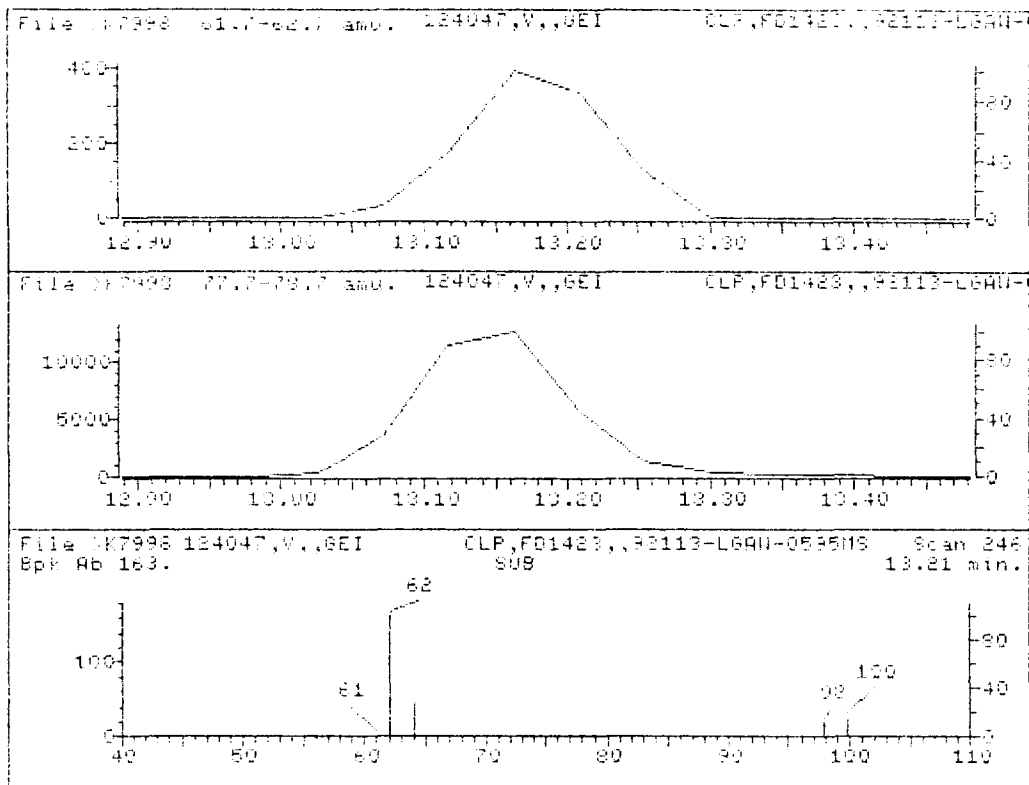
Quant level: 62.0

Area: 7920

Concentration: 3.97 UG/L

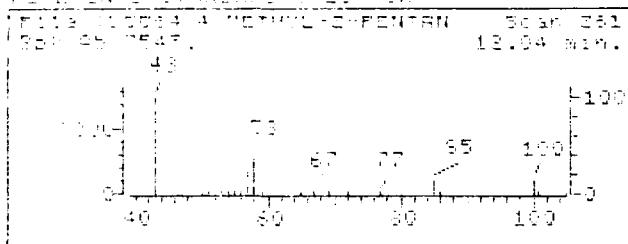
q-value: 98

Clean spectra →

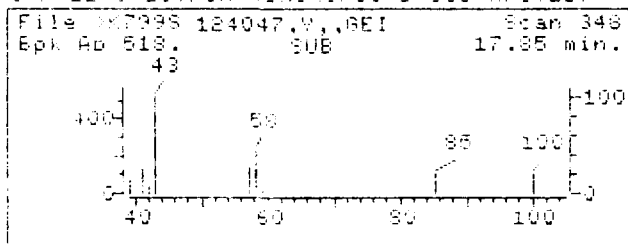


1,2 ac

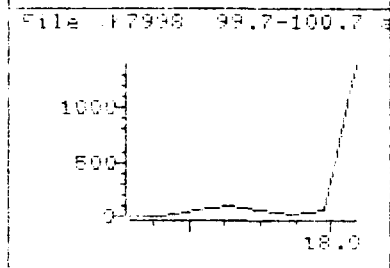
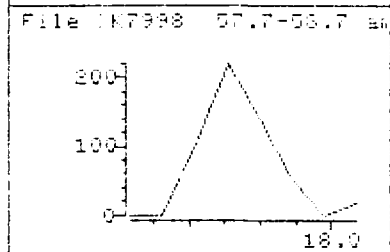
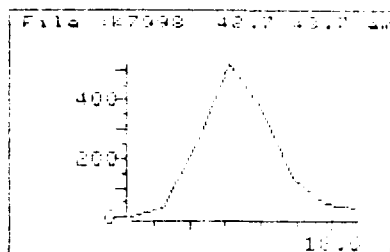
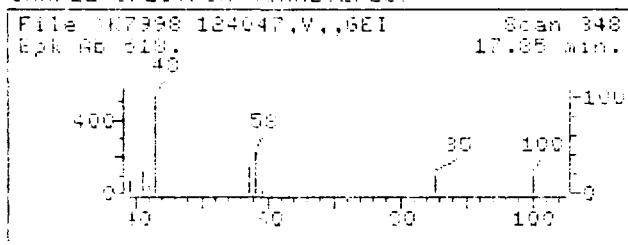
REFERENCE SPECTRUM 10000000



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: 187998:00

Quant. Data File: 187998:00

Name: 124047.V.,.6EI

Name: P.P., 124047.V.,.6EI-1604-05270000, 1, 0, 01 SA 500 OPT 101213

Quant. Time: 250001 12:26

Quant. File: 187998:00

Injected Vol: 250001 12:26

Last Calibration: 250001 12:26

Compound Name: 4-Methyl-2-pentanone

Compound Name: 4-Methyl-2-pentanone

Area Under: 342

Retention Time: 17.85 min.

Quant. Vol: 25.0

Area: 342

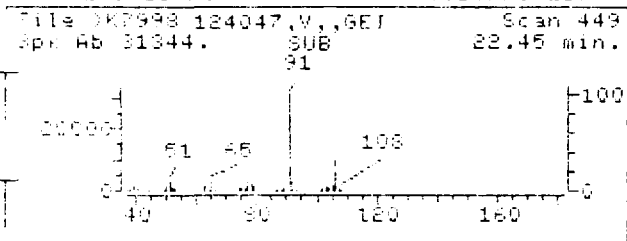
Concentration: 0.27 ug/L

Conc. Unit: ug

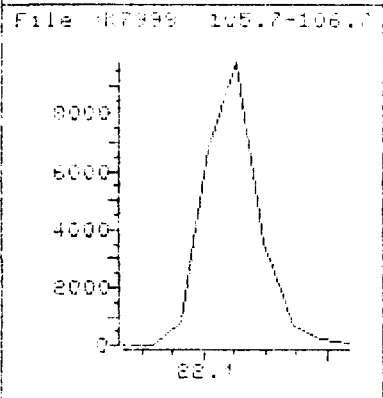
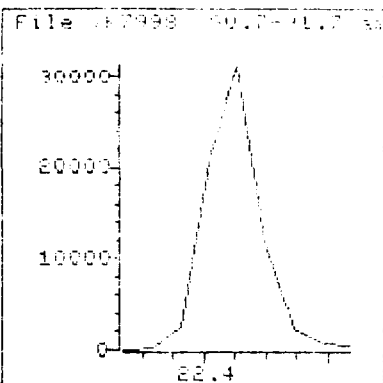
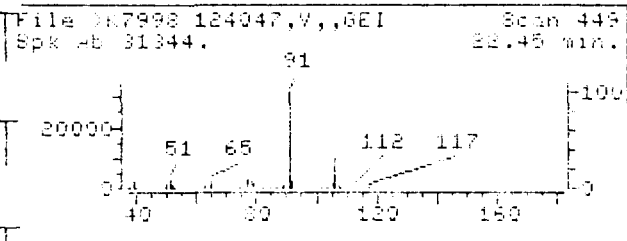
FILE 124047.D: C240 ETHYL BENZENE



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: K7998::L1

Quant Output File: K7998::K2

Name: 124047.V, GEL

File: CLP,FD1423,,72113-LGAW-0595MSD,L,A,ALSS GML SPT 101916

Quant Time: 950601 18:26

Quant ID File: KU081D::DB

Injected at: 950601 17:50

Last Calibration: 950601 14:56

Compound No: 46

Compound Name: C240 ETHYL BENZENE

Scan Number: 449

Retention Time: 22.45 min.

Quant Ion: 106.0

Area: 63487

Concentration: 63.21 UG/L

q-value: 99

File: 1100401 WILSON Scan 380
Sgl: 4411. 19.13 min.

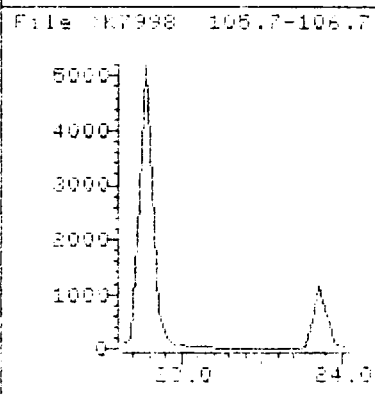
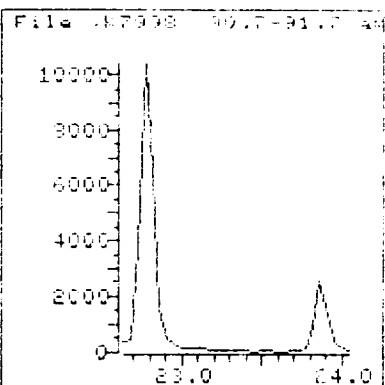
m/z	Relative Intensity (%)
51	10
91	100
105	40
205	10

File: K7998 124047.V., 6EI Scan 456
BpK AB 10324. SUB 22.77 min.

m/z	Relative Intensity (%)
51	~5
91	100
106	~80
107	~60

File: 17998 124047.V.,.661 Scan: 456
Epk Hb: 10376. 22.77 min.

Mass spectrum plot showing relative intensity versus mass-to-charge ratio (m/z). The x-axis ranges from 50 to 200. The y-axis ranges from 0 to 100,000. Major peaks are labeled with their m/z values: 31, 51, 106, and 107. The peak at m/z 51 is the base peak with the highest intensity.



Last Calibration: 250401 14:56

group: 100% 9/

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

921130W2DMSD

Lab Name: CAMBRO

Contract: GEI

Lab Code: CAMBRO

Case No.: FD1423

SAS No.:

SDG No.:

Matrix: (Soil/Water) WATER

Lab Sample ID: 124146MSD

Sample wt/Vol: 5.0 (g/mL) ML

Lab File ID: K9085

Level: (Low/med) LOW

Date Received: 05/26/95

% Moisture: not det.

Date Analyzed: 06/04/95

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 10.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	g
74-87-3	Chloromethane	100	10
74-80-9	Bromomethane	100	10
75-01-4	Vinyl Chloride	100	10
75-00-3	Chloroethane	100	10
75-39-0	Ethylene Chloride	14	180
67-64-1	Acetone	100	10
75-15-0	Carbon Disulfide	100	10
75-35-4	1,1-Dichloroethene	580	
75-34-0	1,1-Dichloroethane	160	
040-59-0	1,2-Dichloroethene (total)	1300	
67-65-3	Chloroform	100	10
107-06-2	1,2-Dichloroethane	190	
78-53-3	2-Butanone	100	10
71-55-6	1,1,1-Trichloroethane	100	10
68-20-3	Carbon Tetrachloride	100	10
75-27-4	Bromodichloromethane	100	10
78-87-5	1,2-Dichloropropane	100	10
10061-01-5	cis-1,3-Dichloropropene	100	10
79-01-6	Trichloroethene	530	
124-40-1	Dibromochloromethane	100	10
79-00-5	1,1,2-Trichloroethane	100	10
71-43-2	Benzene	520	
10061-02-6	trans-1,3-Dichloropropene	100	10
75-25-2	Bromoform	100	10
108-10-1	4-Methyl-2-Pentanone	100	10
591-78-6	2-Hexanone	100	10
127-18-4	Tetrachloroethene	100	10
79-34-5	1,1,1,2-Tetrachloroethane	100	10
108-88-3	Toluene	490	
108-90-7	Chlorobenzene	490	
100-41-4	Ethylbenzene	100	10
100-42-5	Styrene	100	10
1330-20-7	Xylene (total)	100	10

QUANT REPORT

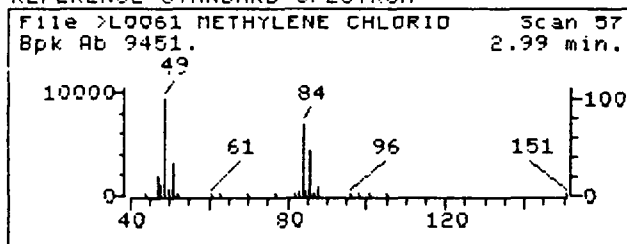
Operator ID: DOUG Quant Rev: 6 Quant Time: 950604 13:17
 Output File: ^K8085::K2 Injected at: 950604 12:41
 Data File: >K8085::L2 Dilution Factor: 1.00000
 Name: 124146MSD,V,EPA,GEI
 Misc: CLP,FD 1423,,92113-0W2D-0595 MSD,L,W,ALS3 1:10 TOM

ID File: KVOAID::DB
 Title: VOLATILE ORGANIC ANALYSIS, INST=HP5970K
 Last Calibration: 950604 12:56

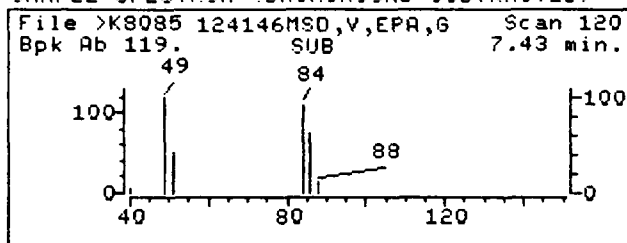
	Compound	R.T.	Q	ion	Area	Conc	Units	q
1)	*CI01 BROMOCHLOROMETHANE IS-1	11.43	128.0		34200	50.00	UG/L	94
8)	C030 METHYLENE CHLORIDE	7.43	84.0		902	1.44	UG/L	71
11)	C045 1,1-DICHLOROETHENE	6.20	96.0		30105	57.80	UG/L	74
12)	C050 1,1-DICHLOROETHANE	9.25	63.0		16106	16.06	UG/L	96
-17)	C053 TOTAL-1,2-DICHLOROETHENE	10.84	96.0		94740	129.29	UG/L	85
19)	C065 1,2-DICHLOROETHANE	13.17	62.0		13913	18.75	UG/L	90
20)	CS15 D4-1,2-DICHLOROETHANE SS1	12.98	65.0		36099	50.68	UG/L	91
-24)	*CI10 1,4-DIFLUOROBENZENE IS-2	14.21	114.0		146412	50.00	UG/L	100
32)	C150 TRICHLOROETHENE	14.85	130.0		59016	52.57	UG/L	91
35)	C165 BENZENE	13.12	78.0		87120	51.67	UG/L	100
38)	*CI20 D5-CHLOROBENZENE IS-3	22.01	117.0		119878	50.00	UG/L	100
-43)	CS05 D-8 TOLUENE (SS-2)	18.09	98.0		121995	49.42	UG/L	94
44)	C230 TOLUENE	18.27	91.0		111568	48.84	UG/L	99
45)	C235 CHLOROBENZENE	22.10	112.1		101321	48.69	UG/L	95
-47)	CS10 BROMOFLUOROBENZENE (SS-3)	25.29	174.0		66522	49.45	UG/L	82
54)	CWWW 1,2-DICHLOROBENZENE	29.71	146.0		8589	4.80	UG/L	85

* Compound is ISTD

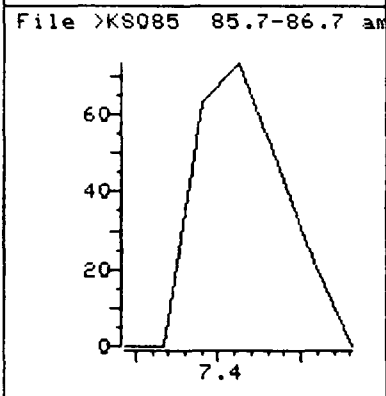
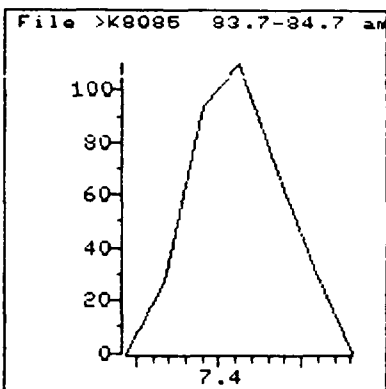
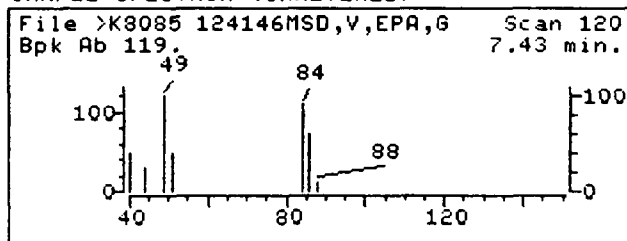
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8085::L2

Quant Output File: ^K8085::K2

Name: 124146MSD,V,EPA,GEI

Misc: CLP,FD 1423,,92113-0W2D-0595 MSD,L,W,ALS3 1:10 TOM

Quant Time: 950604 13:17

Quant ID File: KVOAID::DB

Injected at: 950604 12:41

Last Calibration: 950604 12:56

Compound No: 8

Compound Name: C030 METHYLENE CHLORIDE

Scan Number: 120

Retention Time: 7.43 min.

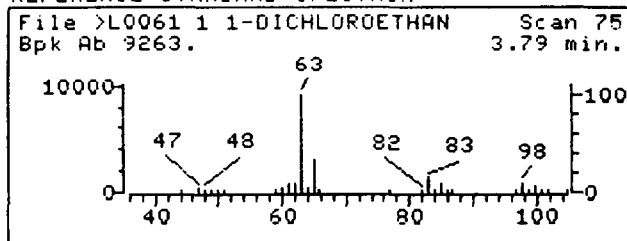
Quant Ion: 84.0

Area: 902

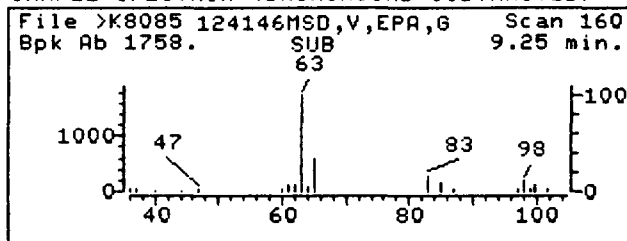
Concentration: 1.44 UG/L

q-value: 71

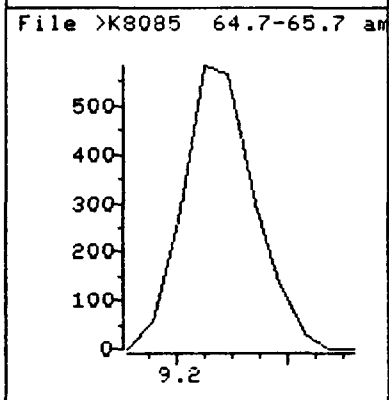
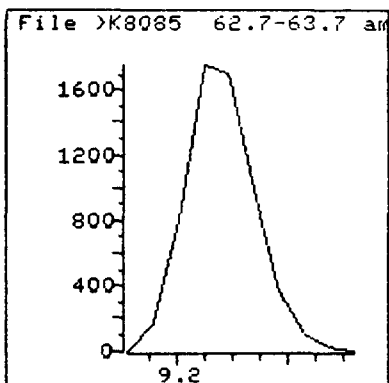
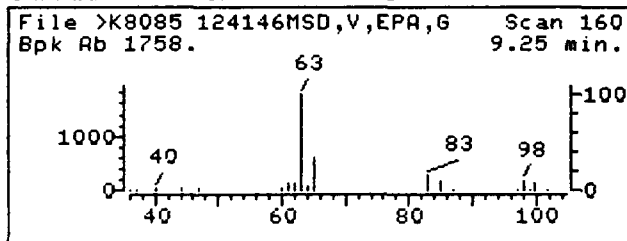
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8085::L2

Quant Output File: ^K8085::K2

Name: 124146MSD,V,EPA,GEI

Misc: CLP,FD 1423,,92113-0W2D-0595 MSD,L,W,ALS3 1:10 TOM

Quant Time: 950604 13:17

Quant ID File: KVOAID::DB

Injected at: 950604 12:41

Last Calibration: 950604 12:56

Compound No: 12

Compound Name: C050 1,1-DICHLOROETHANE

Scan Number: 160

Retention Time: 9.25 min.

Quant Ion: 63.0

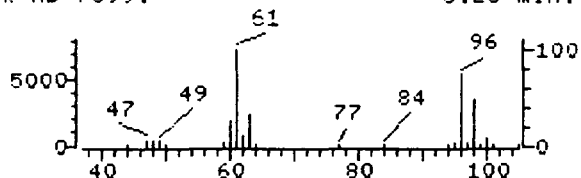
Area: 16106

Concentration: 16.06 UG/L

q-value: 96

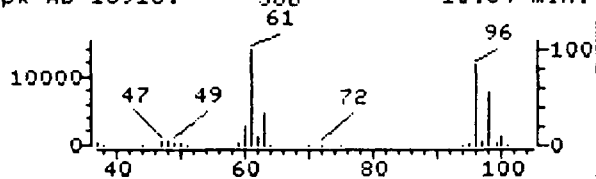
REFERENCE STANDARD SPECTRUM

File >L0062 TRANS-1,2-DICHLOR Scan 63
Bpk Ab 7399. 3.26 min.



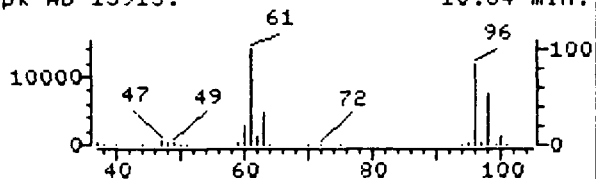
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

File >K8085 124146MSD,V,EPA,G Scan 195
Bpk Ab 13913. SUB 10.84 min.

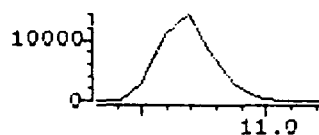


SAMPLE SPECTRUM (UNALTERED)

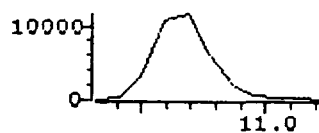
File >K8085 124146MSD,V,EPA,G Scan 195
Bpk Ab 13913. 10.84 min.



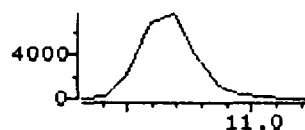
File >K8085 60.7-61.7 am



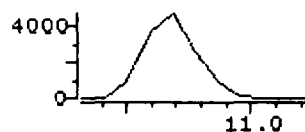
File >K8085 95.7-96.7 am



File >K8085 97.7-98.7 am



File >K8085 62.7-63.7 am



Data File: >K8085::L2

Quant Output File: ^K8085::K2

Name: 124146MSD,V,EPA,GEI

Misc: CLP,FD 1423,,92113-0W2D-0595 MSD,L,W,ALS3 1:10 TOM

Quant Time: 950604 13:17

Quant ID File: KVOAID::DB

Injected at: 950604 12:41

Last Calibration: 950604 12:56

Compound No: 17

Compound Name: C053 TOTAL-1,2-DICHLOROETHENE

Scan Number: 195

Retention Time: 10.84 min.

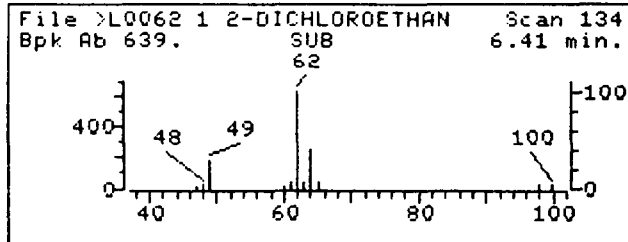
Quant Ion: 96.0

Area: 94740

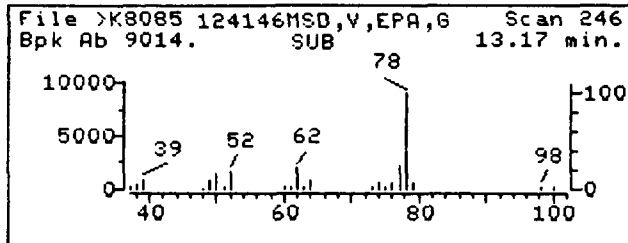
Concentration: 129.29 UG/L

q-value: 85

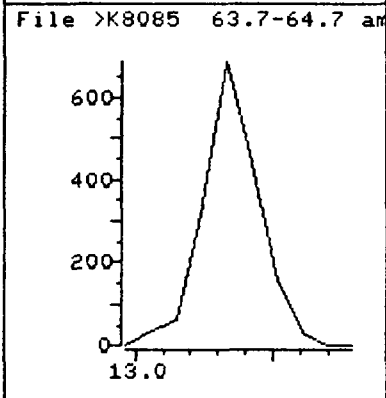
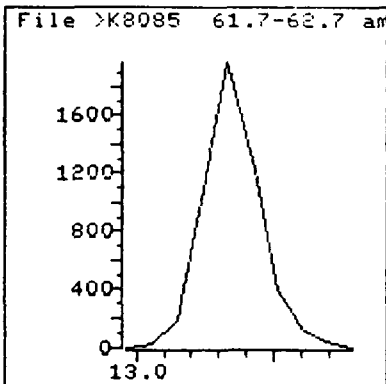
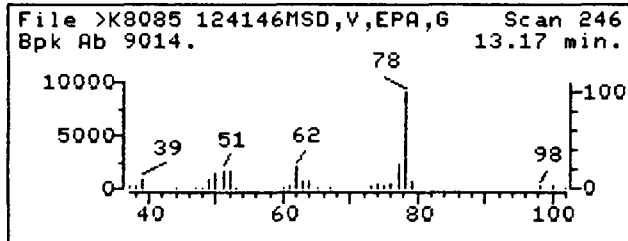
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >K8085::L2

Quant Output File: ^K8085::K2

Name: 124146MSD,V,EPA,GEI

Misc: CLP,FD 1423,,92113-0W2D-0595 MSD,L,W,ALS3 1:10 TOM

Quant Time: 950604 13:17

Quant ID File: KVOAID::DB

Injected at: 950604 12:41

Last Calibration: 950604 12:56

Compound No: 19

Compound Name: C065 1,2-DICHLOROETHANE

Scan Number: 246

Retention Time: 13.17 min.

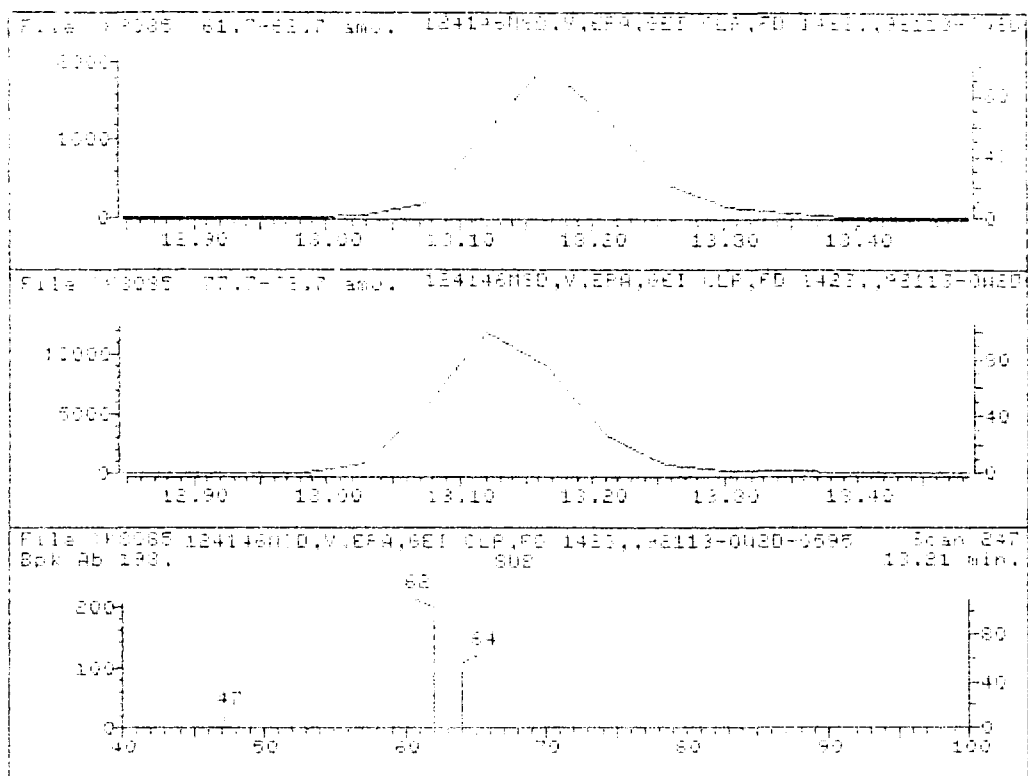
Quant Ion: 62.0

Area: 13913

Concentration: 18.75 UG/L

q-value: 90

OK

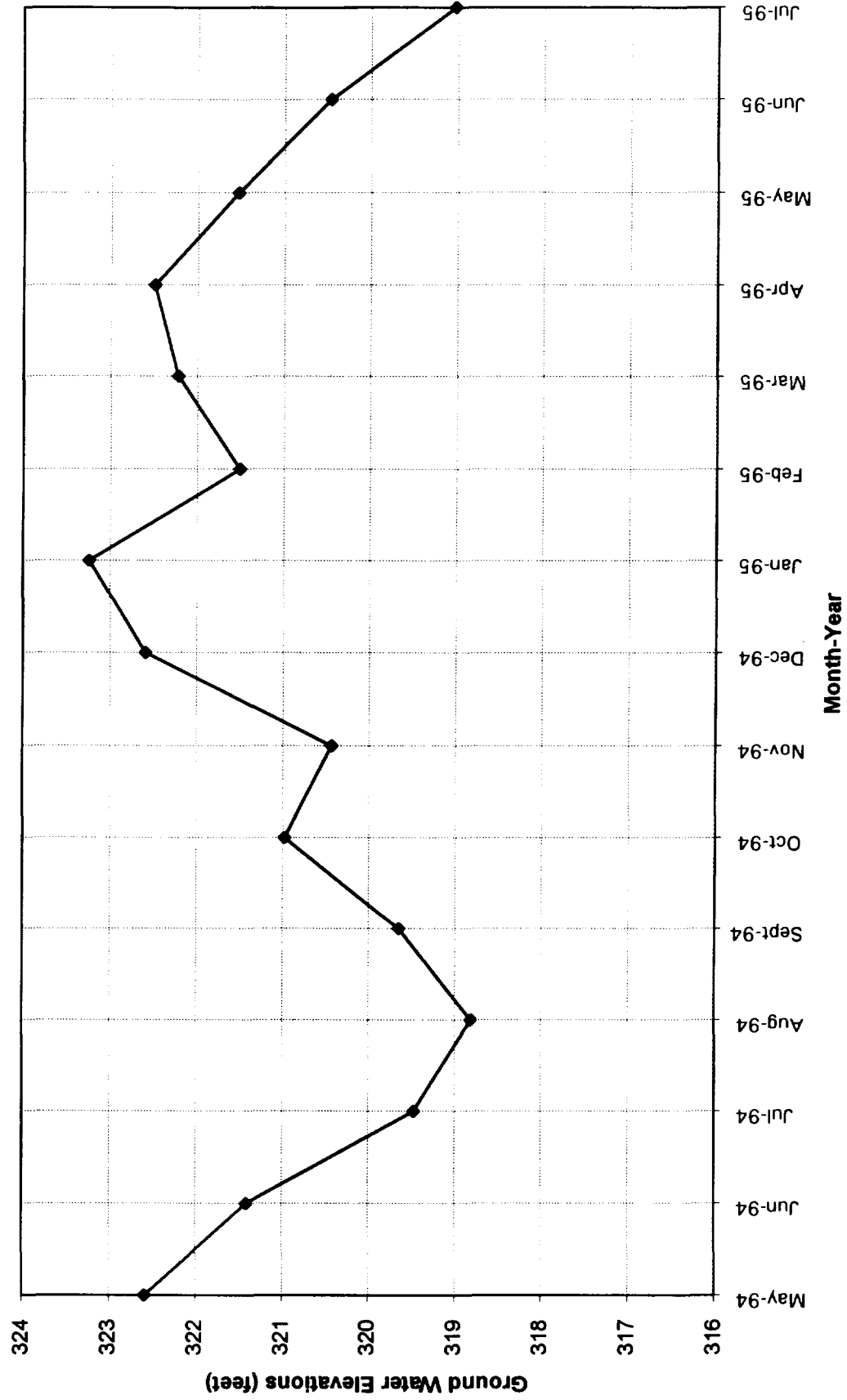


1.2012

APPENDIX D

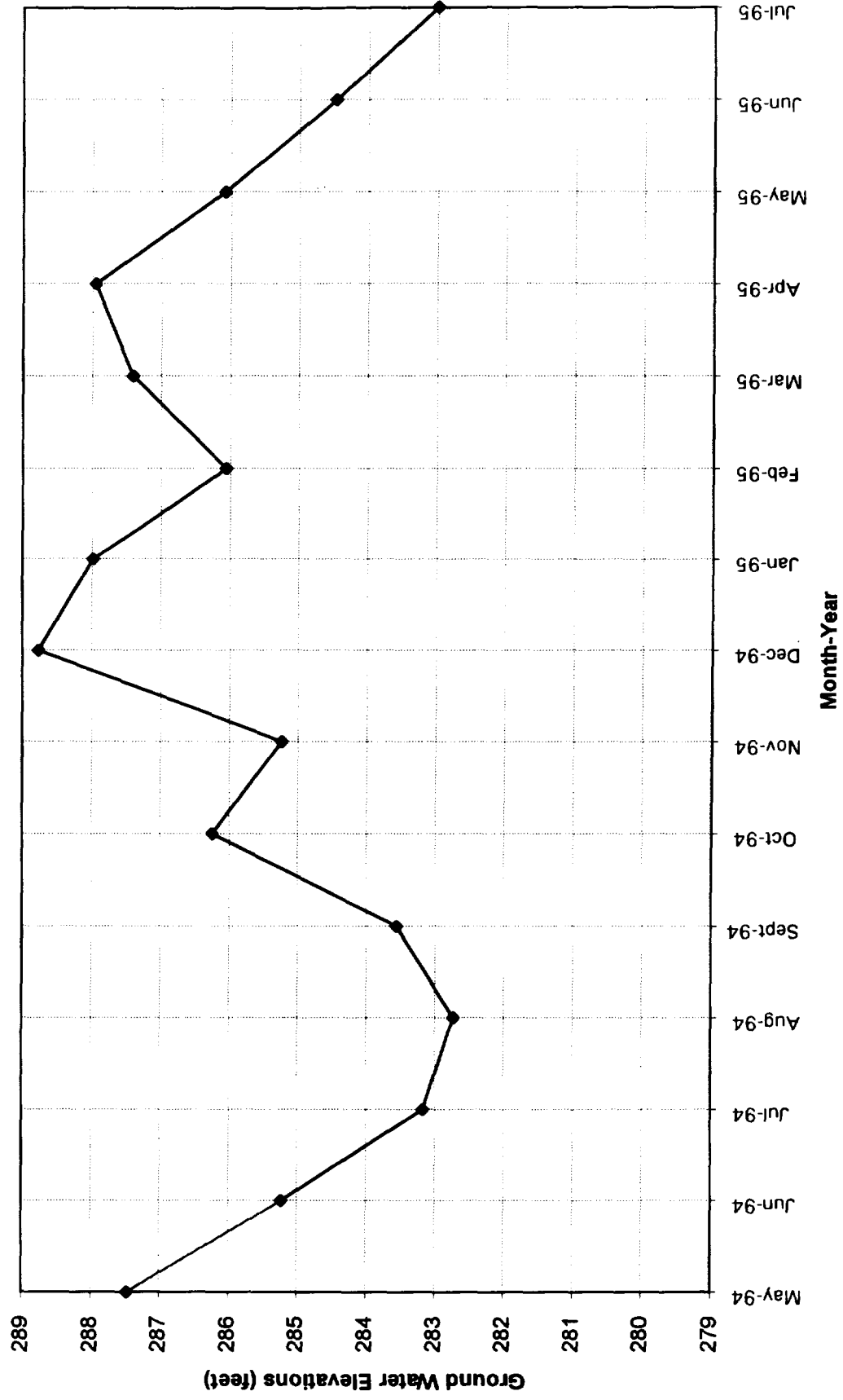
Ground Water Elevation Monitoring Data

**COMPARATIVE GROUND WATER LEVEL DATA
FW-01 Overburden / Shallow Bedrock Well**



May levels are prior to start of MOM remedy pumping system on May 22, 1995.

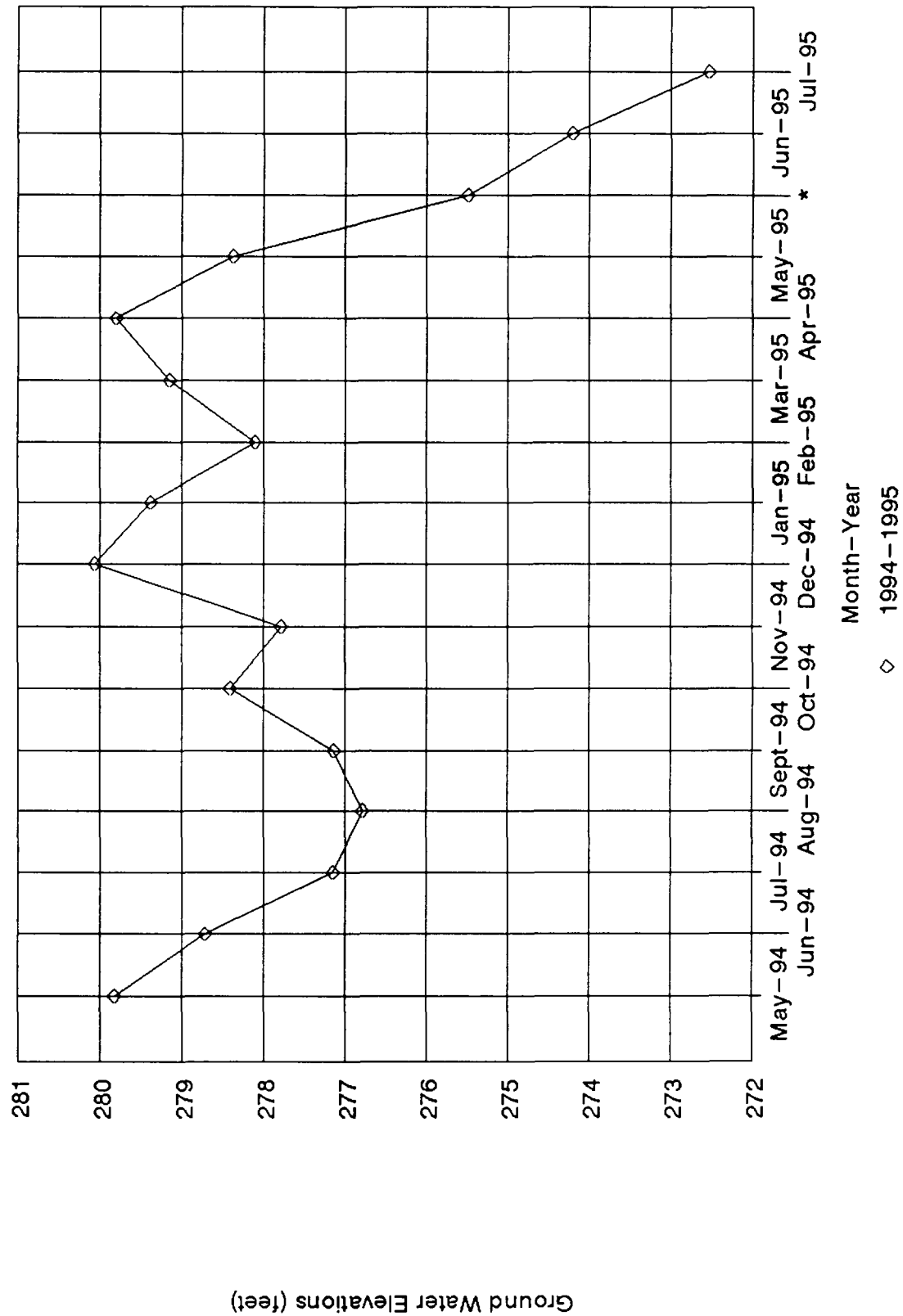
COMPARATIVE GROUND WATER LEVEL DATA
FW-03 Shallow Bedrock Well



May levels are prior to start of MOM remedy pumping system on May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA

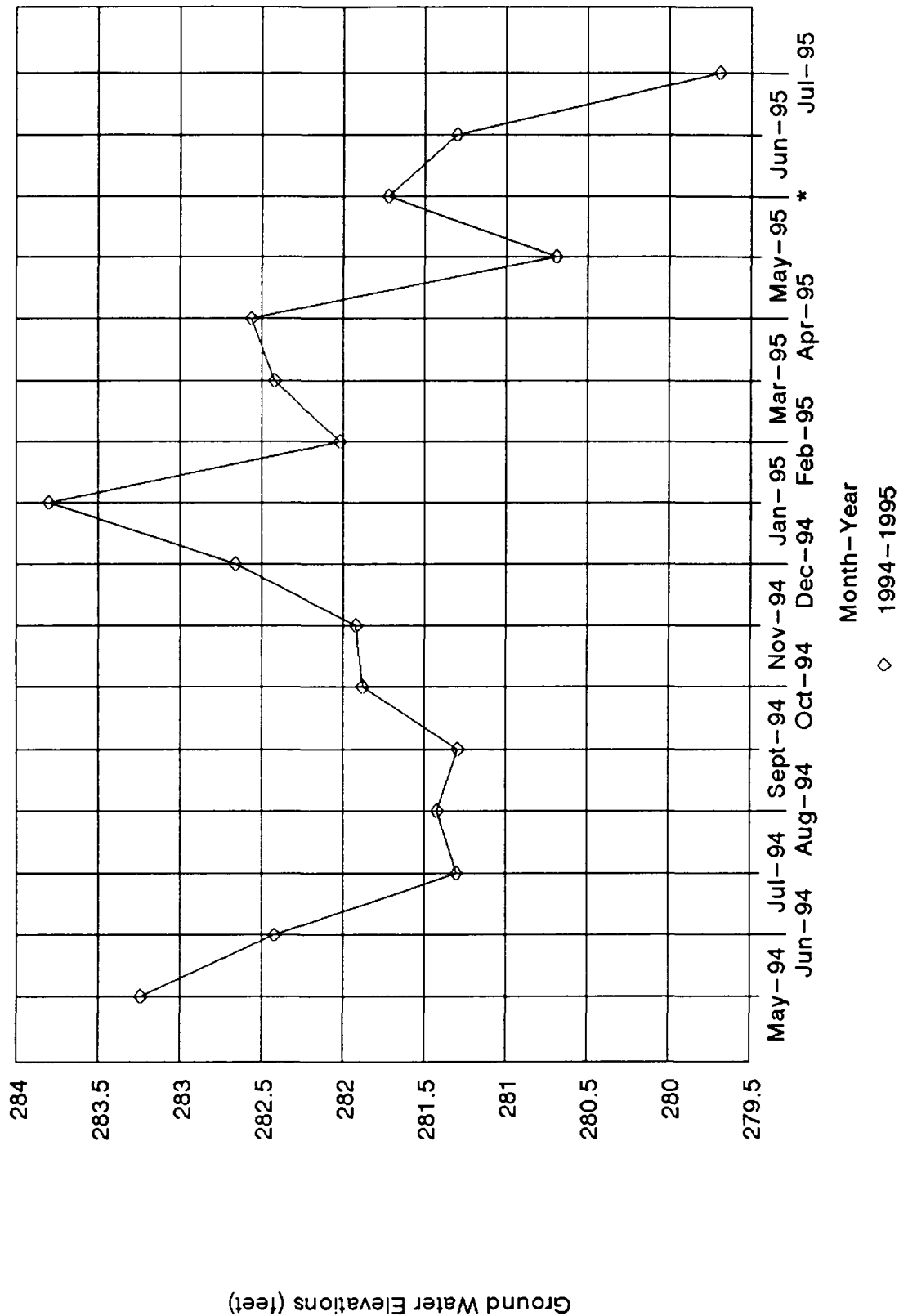
FW-04 Shallow Bedrock Well



* = levels from 1-3 days after system started May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA

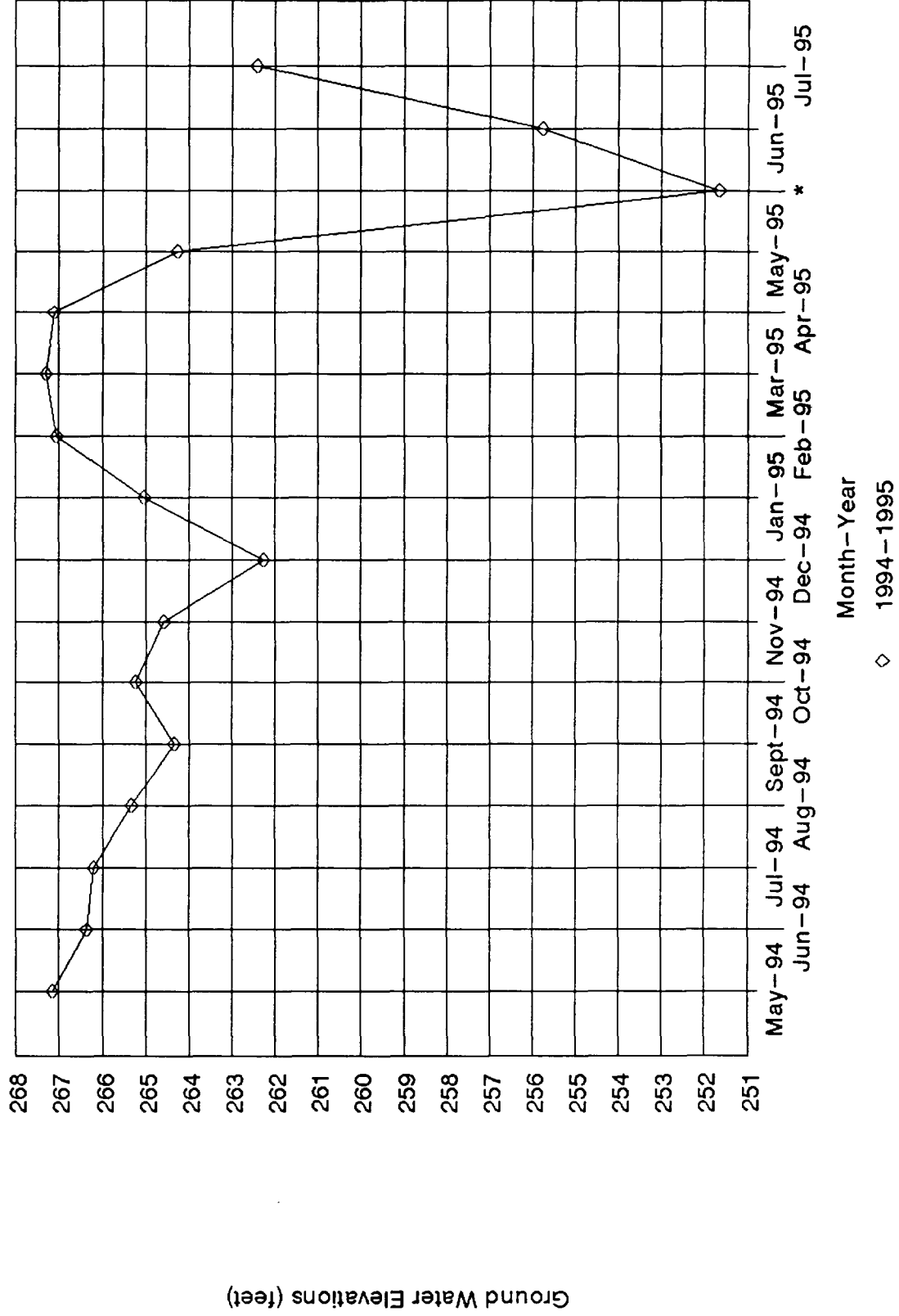
FW-05 Shallow Bedrock Well



* = levels from 1-3 days after system started May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA

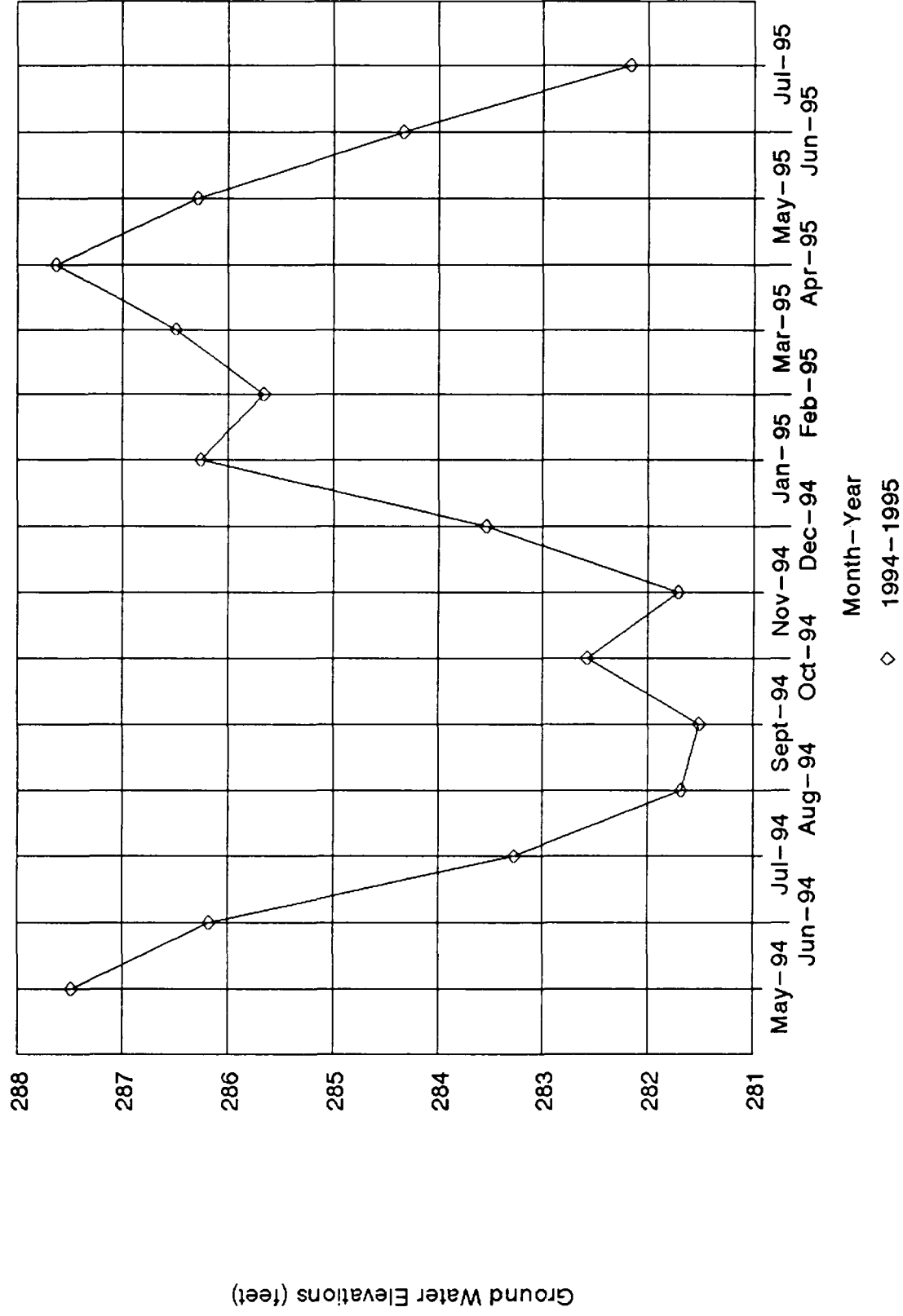
FW-08D Intermediate Bedrock Well



* = levels from 1 - 3 days after system started May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA

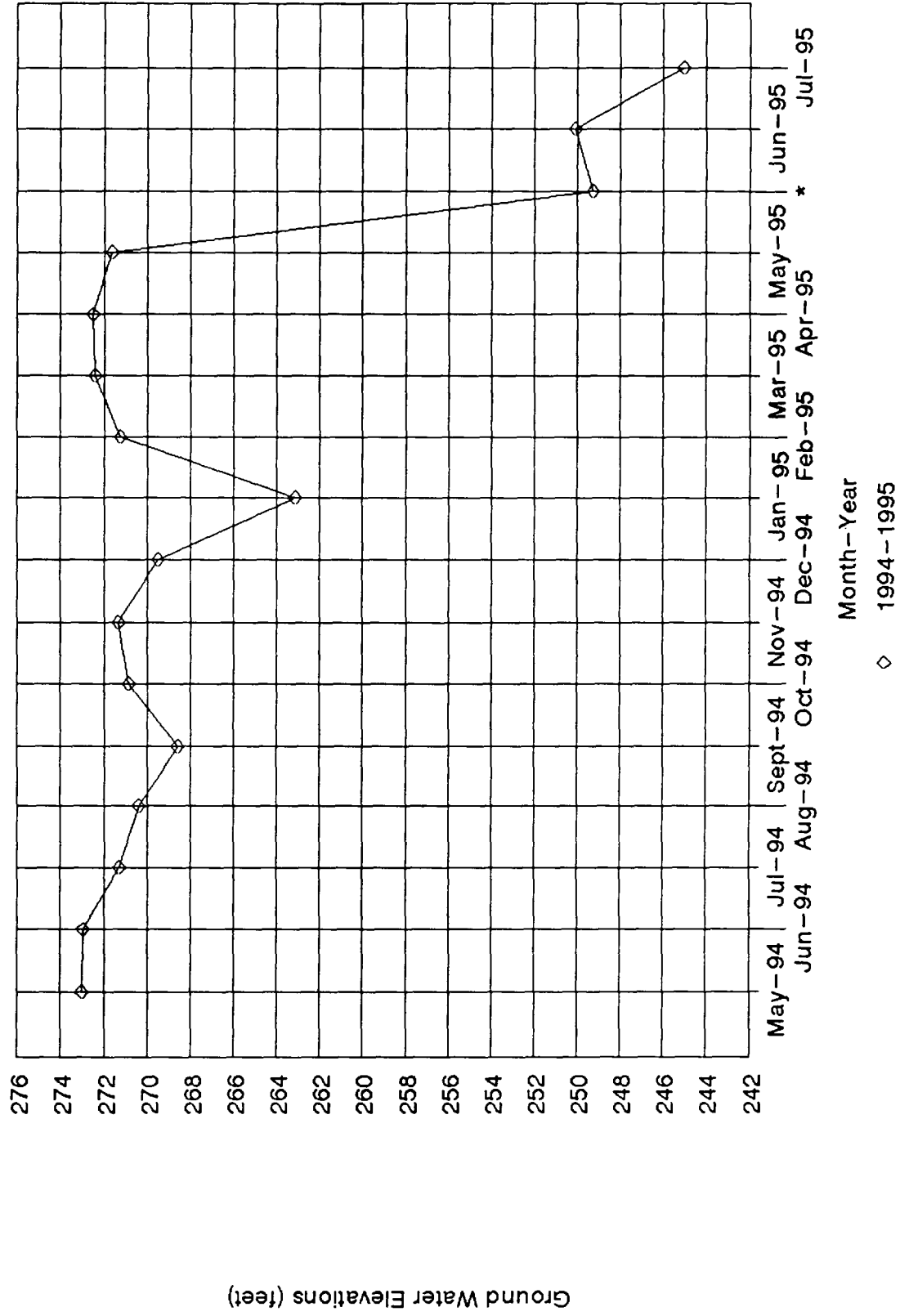
FW-10 Overburden Well



May levels are prior to start of MOM remedy pumping system on May 22, 1995.

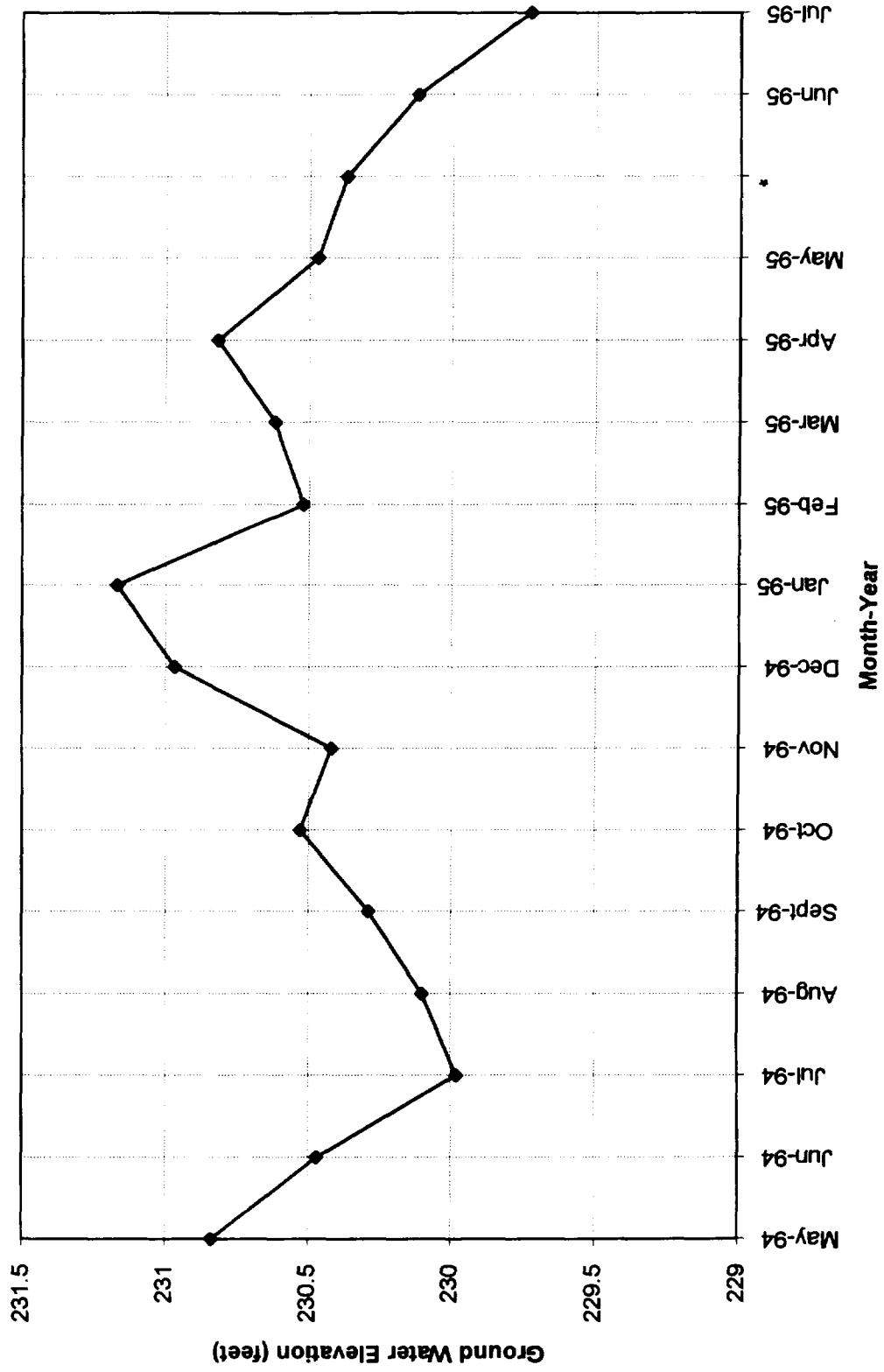
COMPARATIVE GROUND WATER LEVEL DATA

FW-11D Shallow/Interm. Bedrock Well



* = levels from 1 - 3 days after system started May 22, 1995.

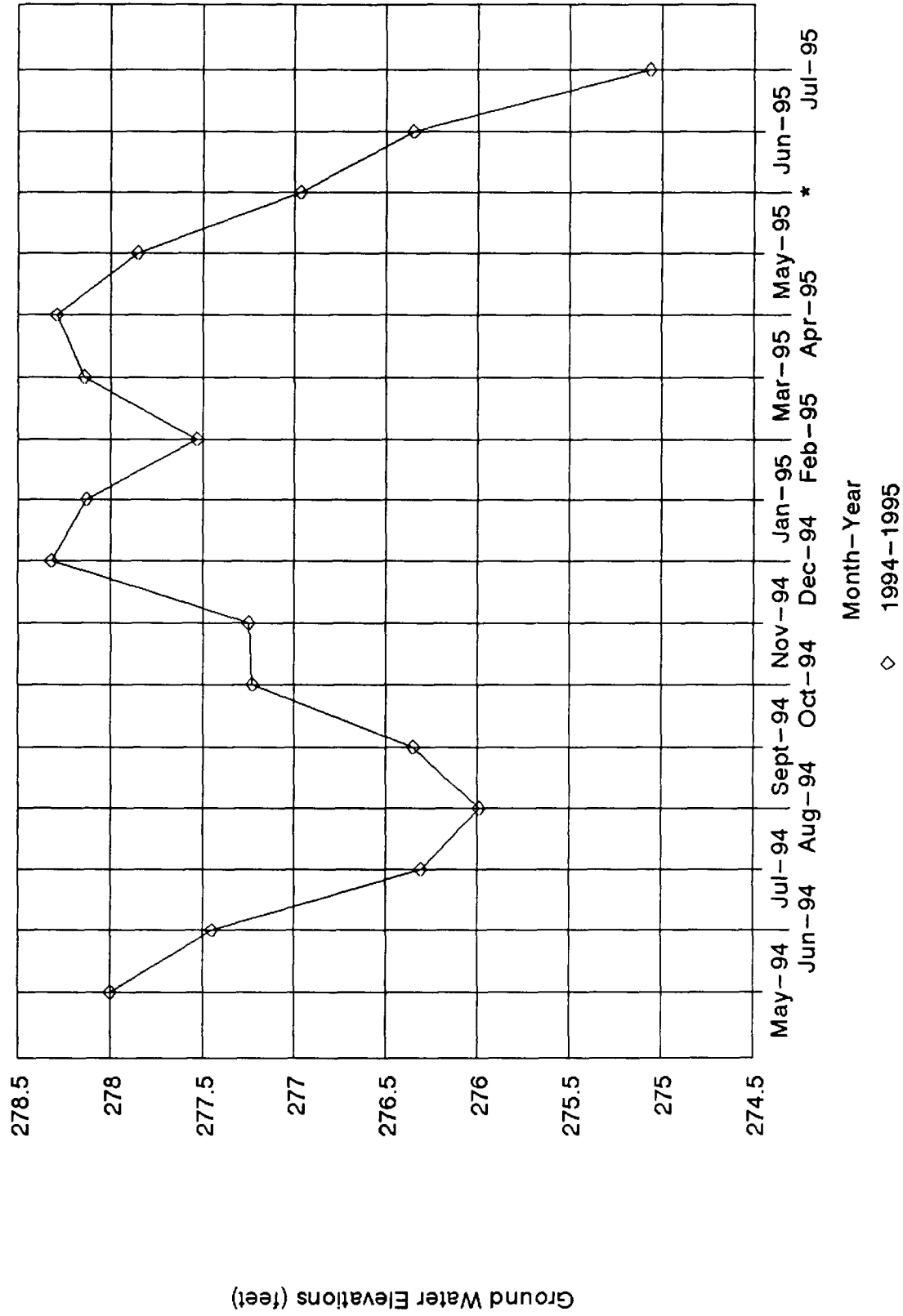
COMPARATIVE GROUND WATER LEVEL DATA FW-17 Overburden / Shallow Bedrock Well



* = Levels from 1-3 days after system started May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA

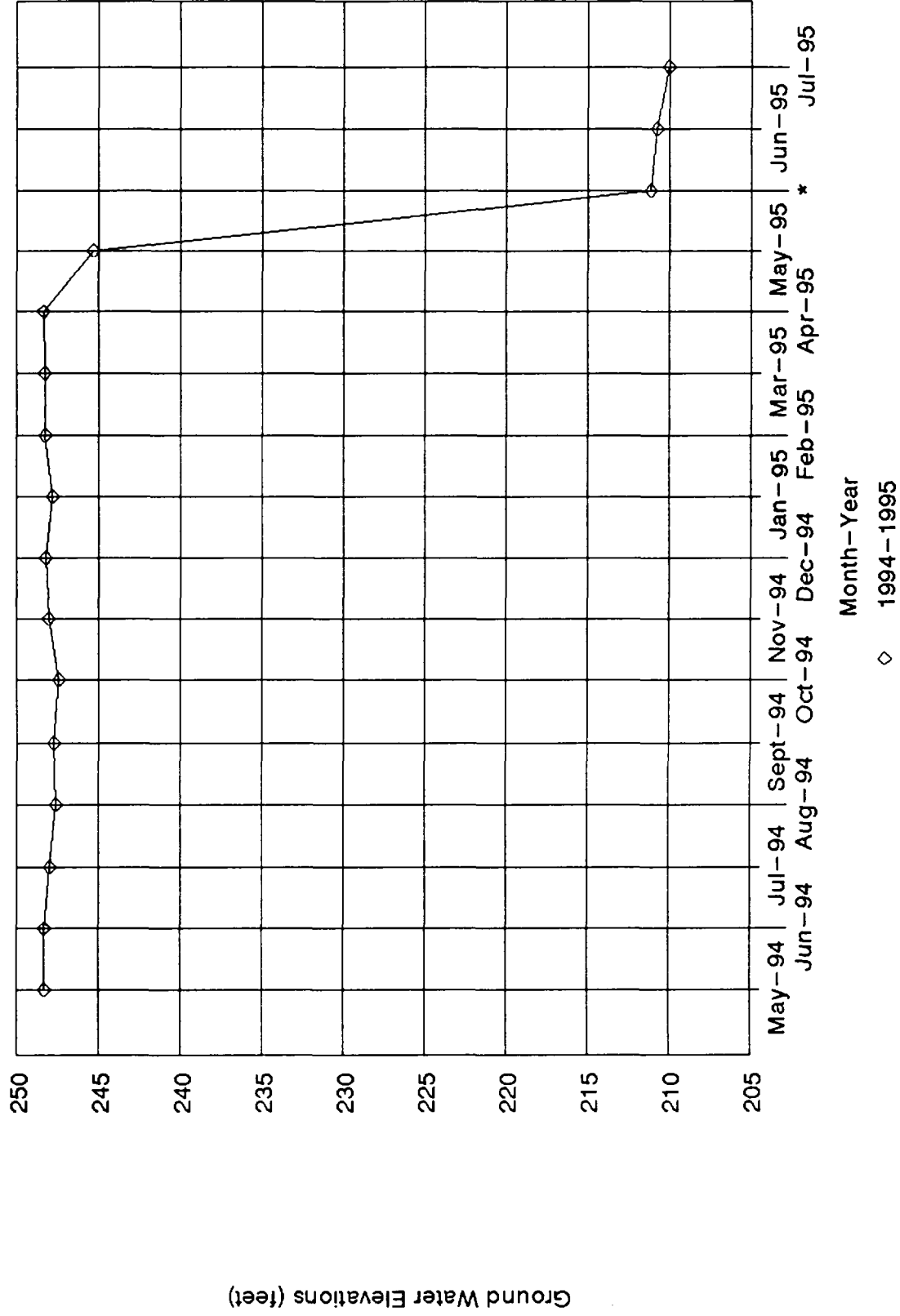
FW-20 Overburden/Shallow Bedrock Well



* = levels from 1-3 days after system started May 22, 1995.

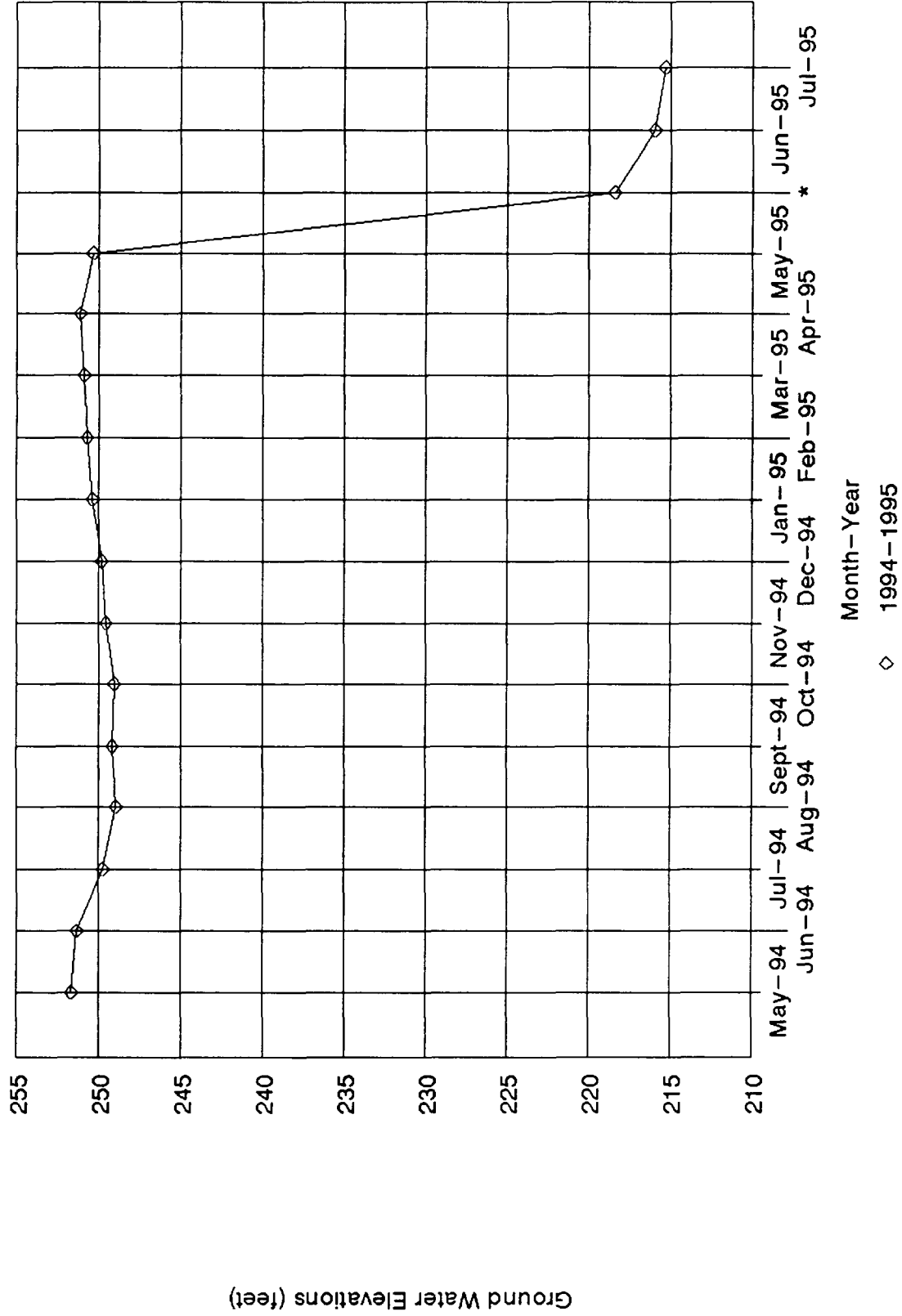
COMPARATIVE GROUND WATER LEVEL DATA

FW-22D Intermediate/Deep Bedrock Well



COMPARATIVE GROUND WATER LEVEL DATA

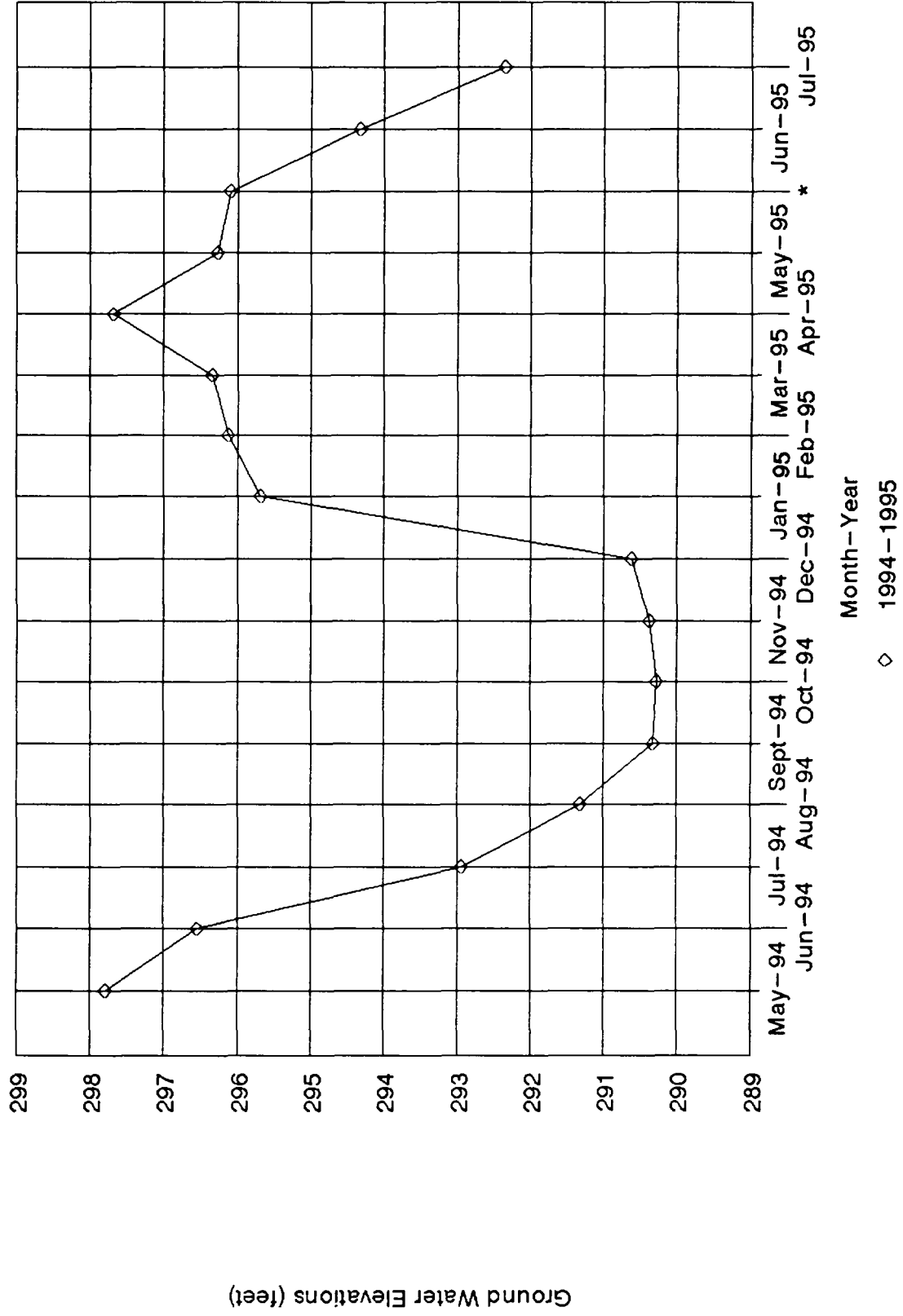
FW-23D Intermediate/Deep Bedrock Well



* = levels from 1-3 days after system started May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA

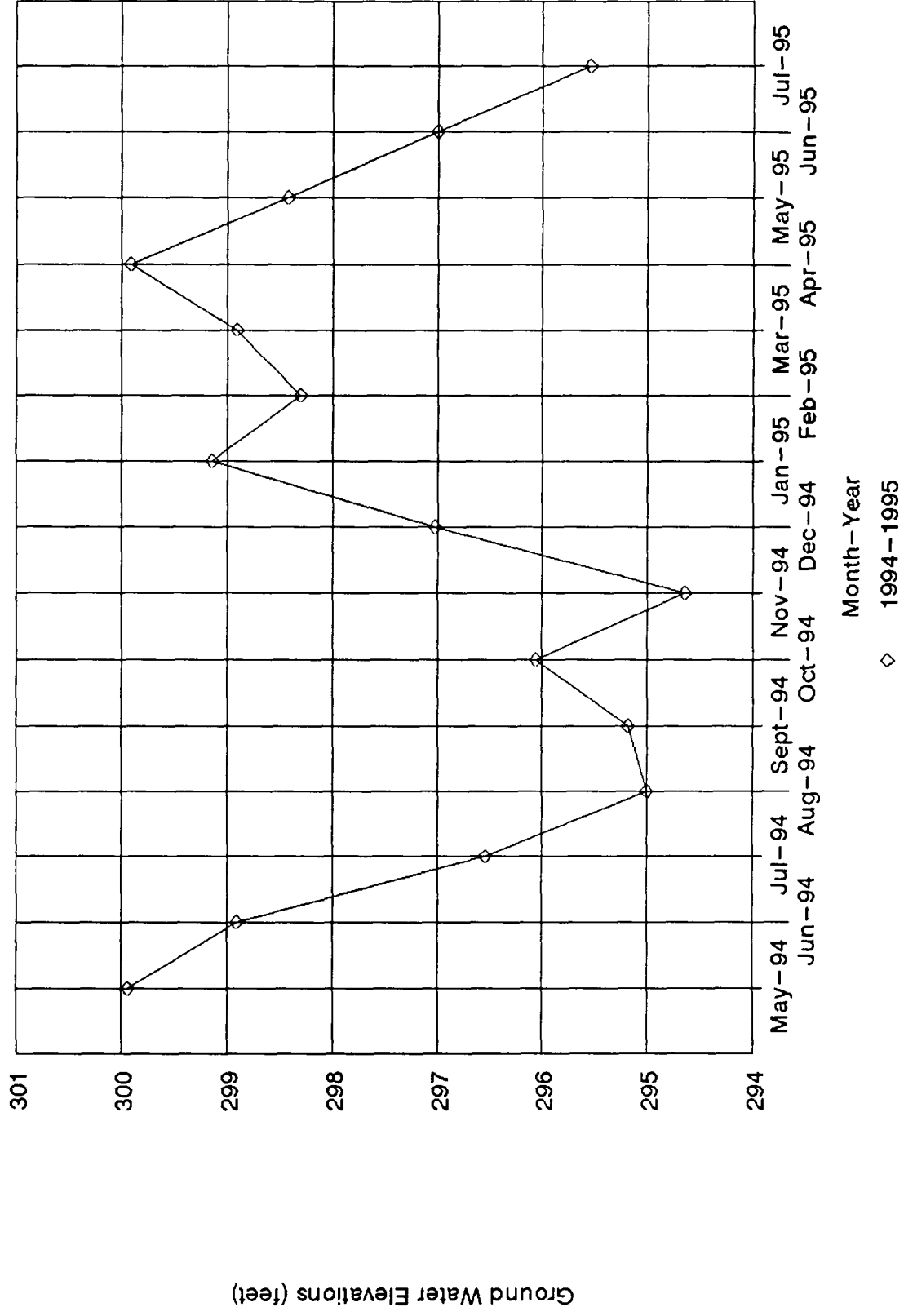
NAI-A1 Overburden Well



* = levels from 1-3 days after system started May 22, 1995

COMPARATIVE GROUND WATER LEVEL DATA

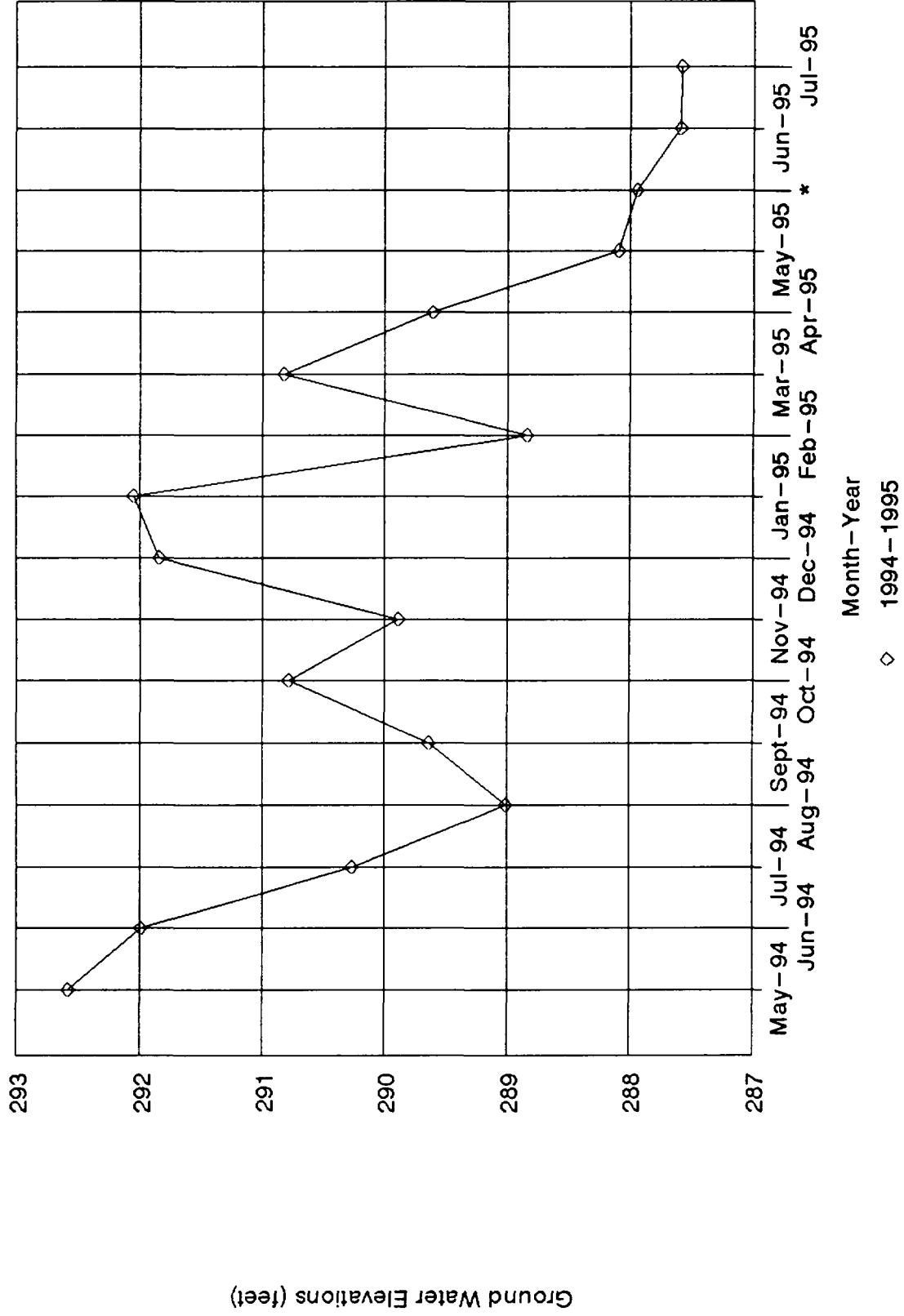
NAI-B Overburden Well



May levels are prior to start of MOM remedy pumping system on May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA

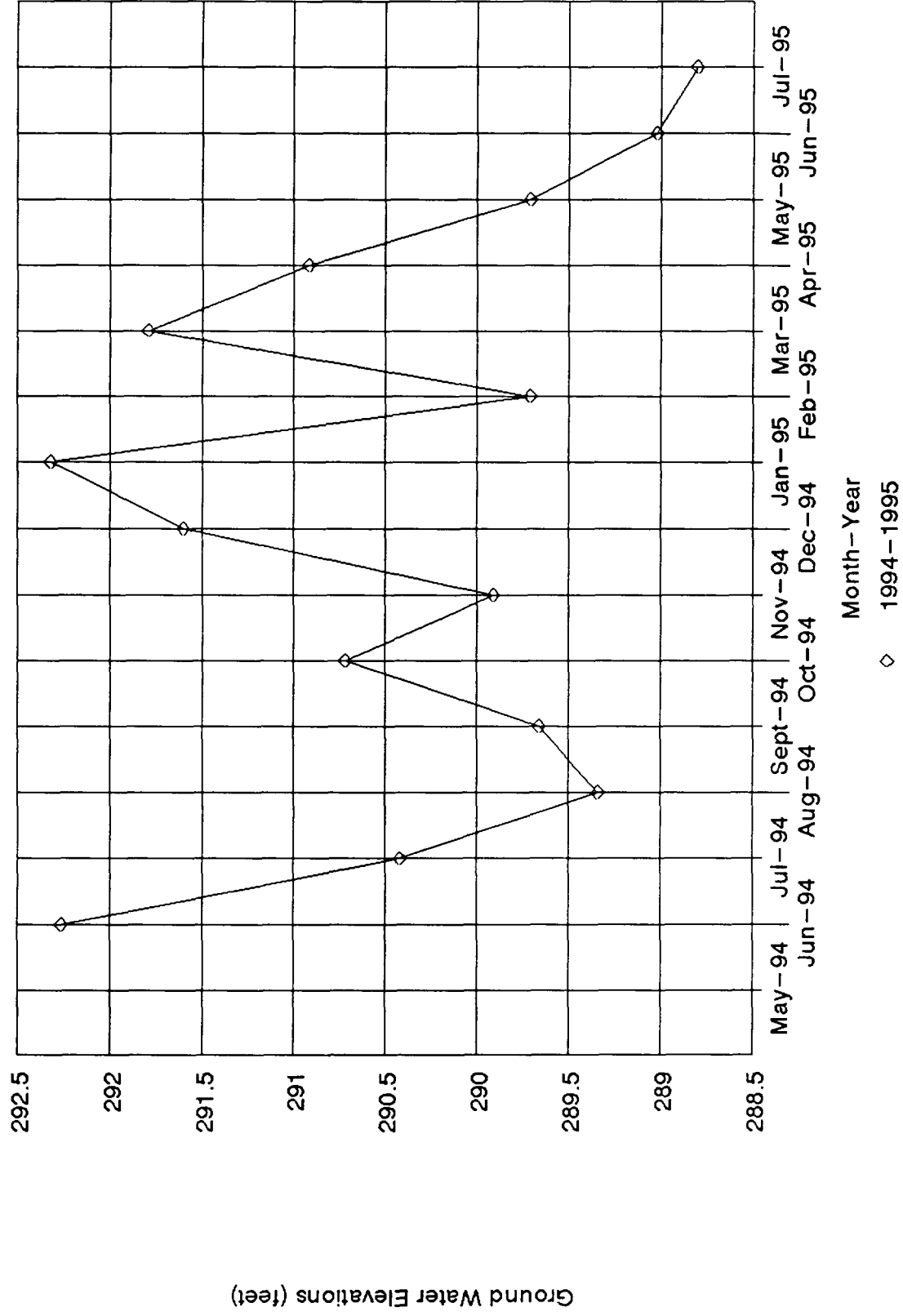
NAI - C1 Overburden Well



* = levels from 1-3 days after system started May 22, 1995

COMPARATIVE GROUND WATER LEVEL DATA

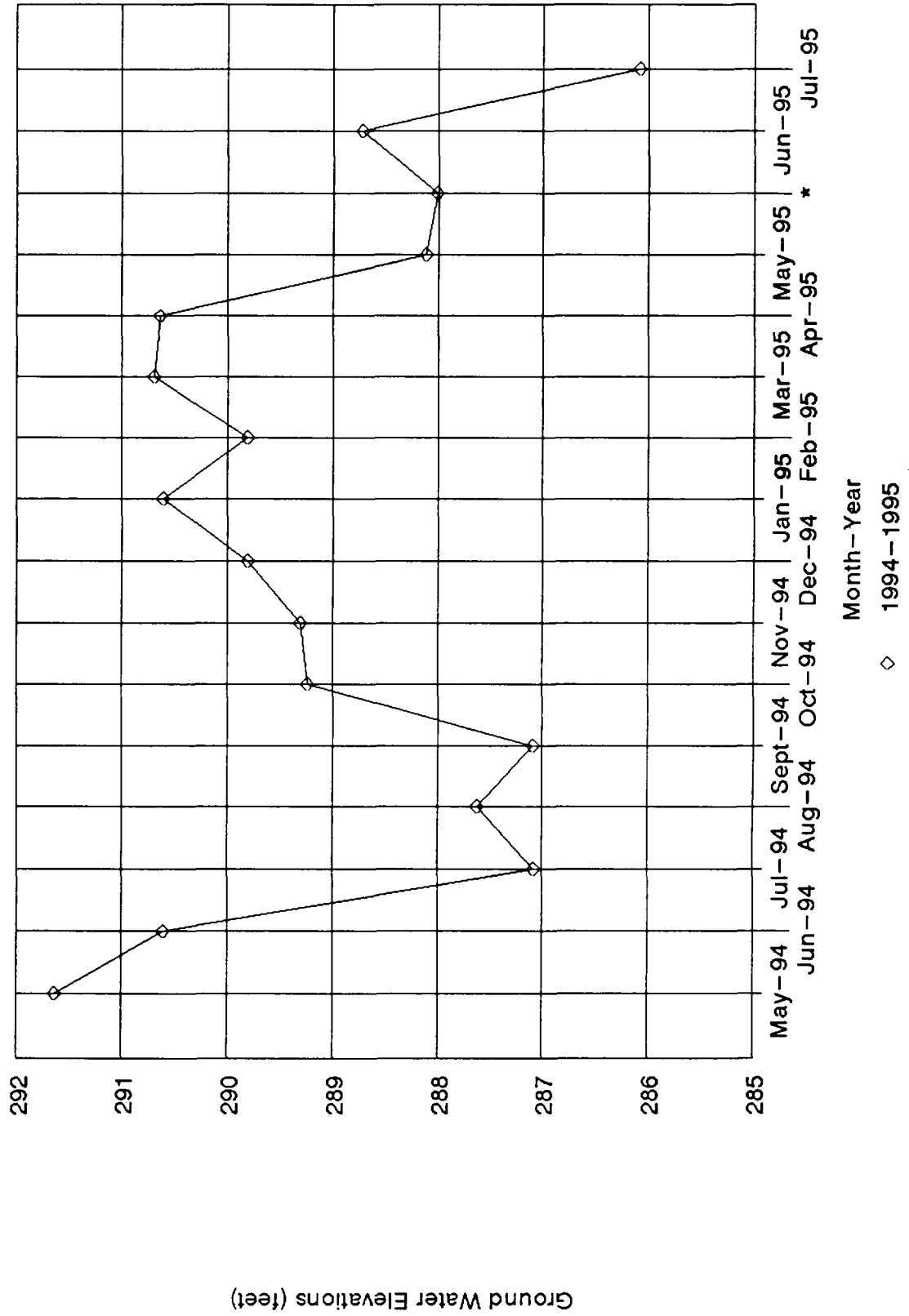
NAI - C2 Shallow Bedrock Well



May levels are prior to start of MOM remedy pumping system on May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA

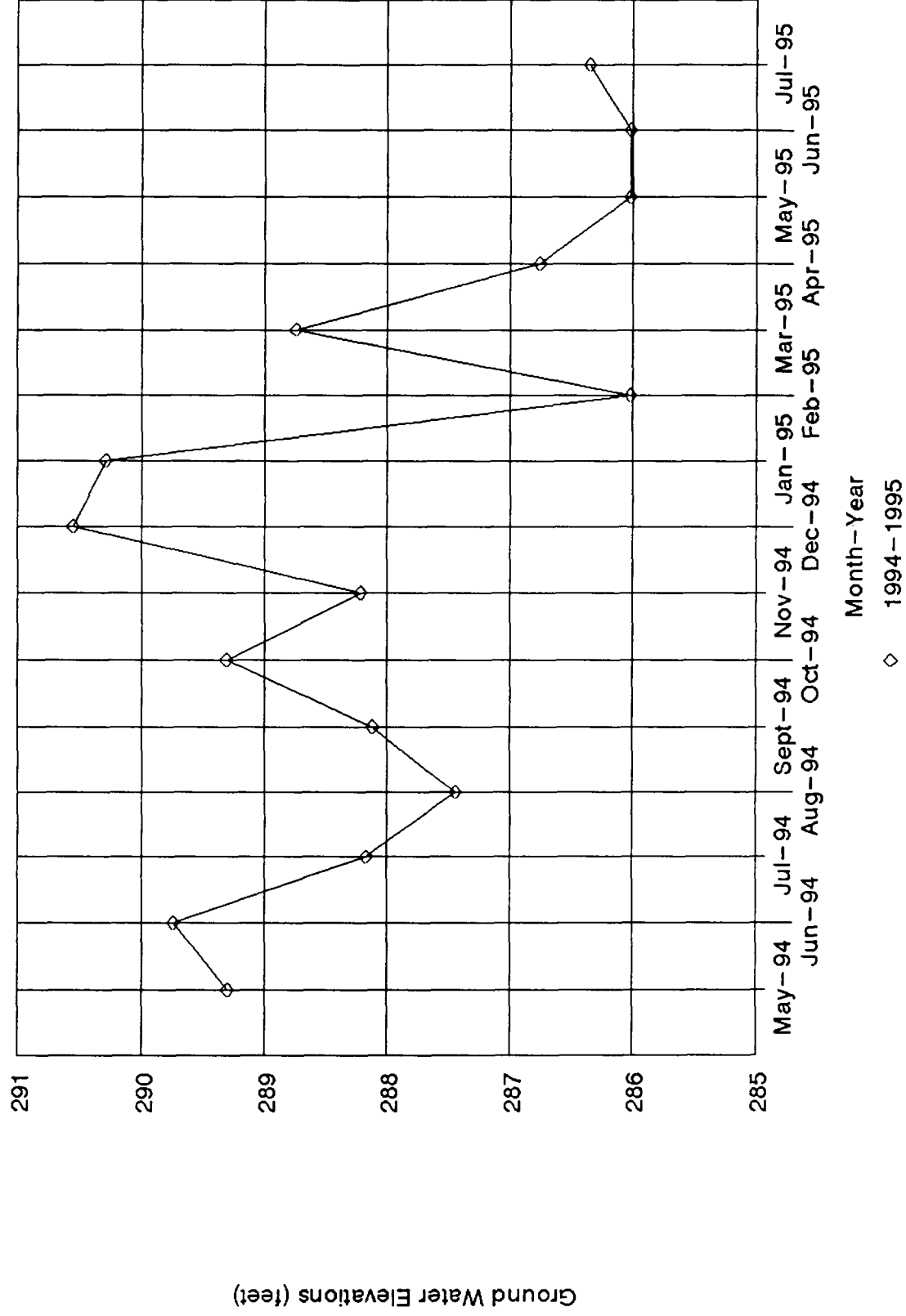
NAI - C3 Overburden Well



* = levels from 1-3 days after system started May 22, 1995

COMPARATIVE GROUND WATER LEVEL DATA

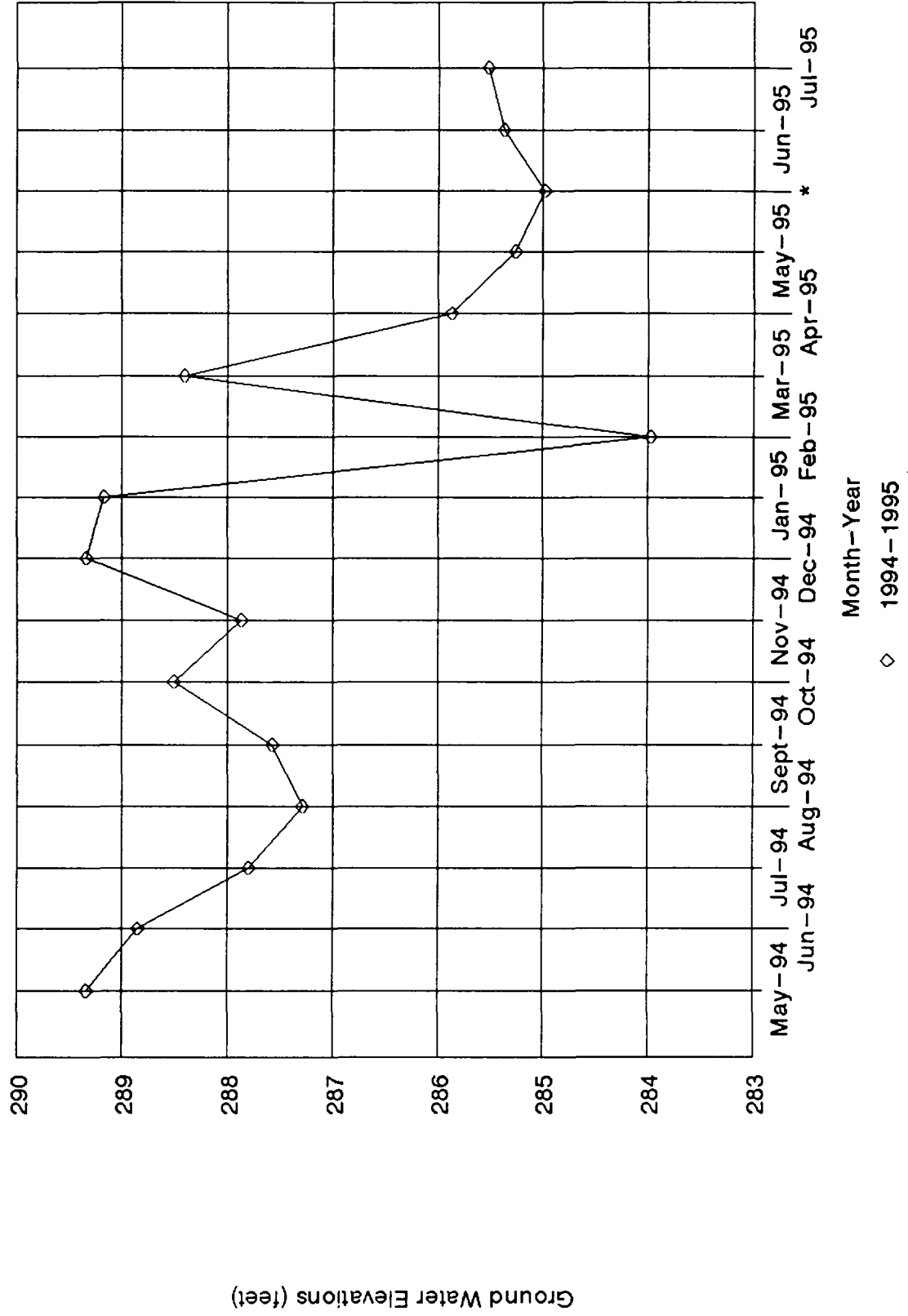
NAI-K1 Overburden Well



May levels are prior to start of MOM remedy pumping system on May 22, 1995.

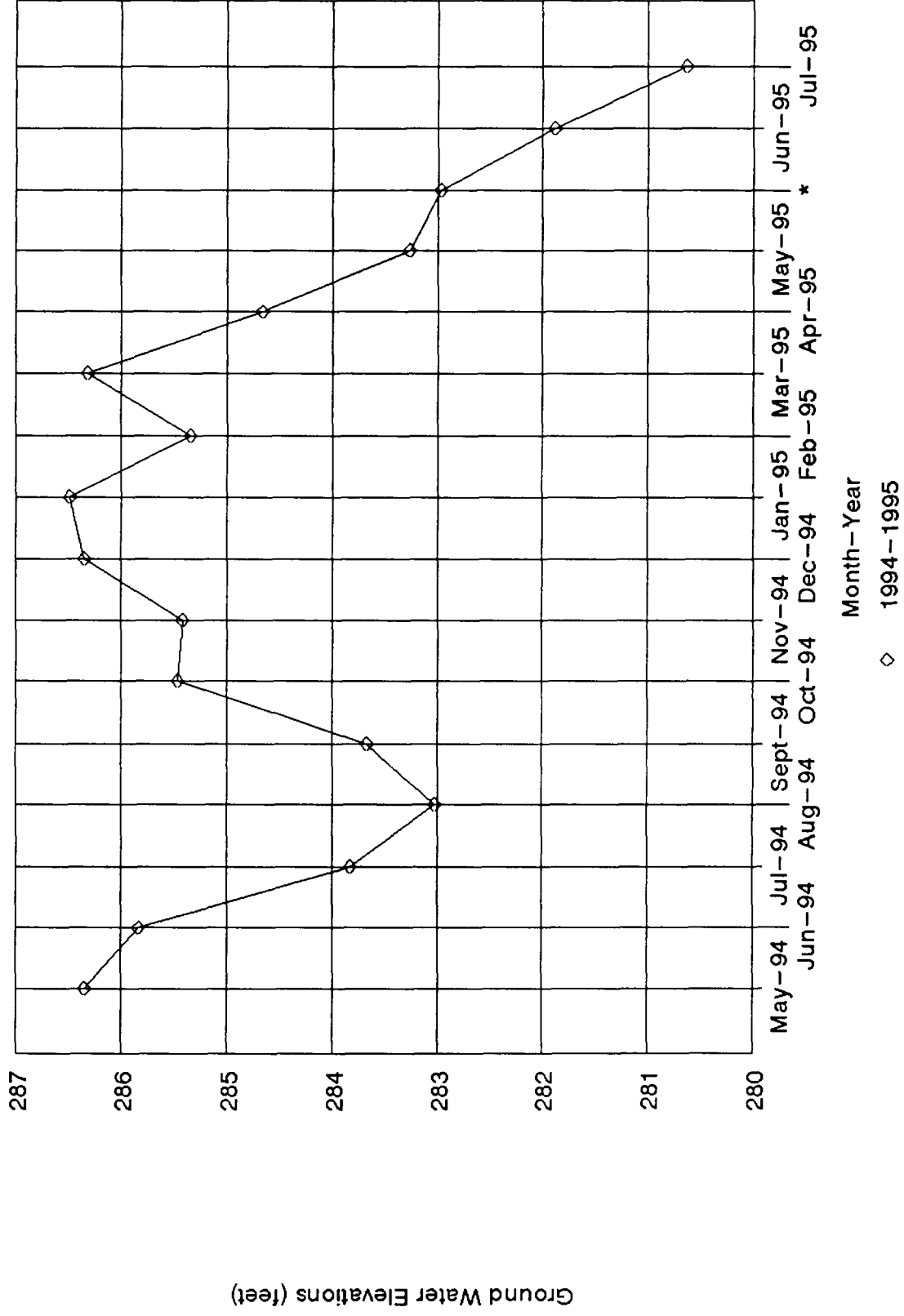
COMPARATIVE GROUND WATER LEVEL DATA

NAI - K2 Shallow Bedrock Well



COMPARATIVE GROUND WATER LEVEL DATA

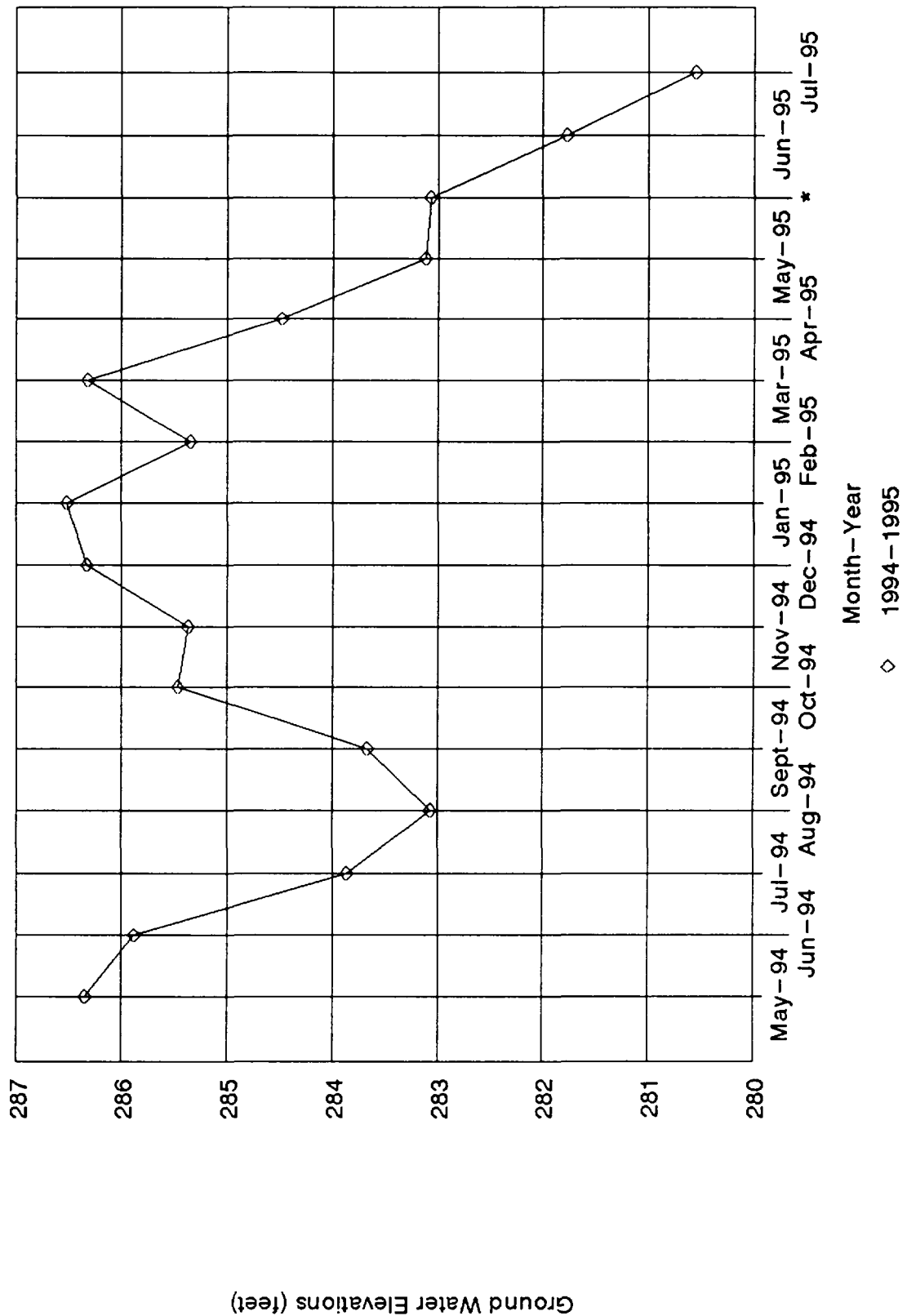
NAI-M1 Overburden Well



* = levels from 1-3 days after system started May 22, 1995.

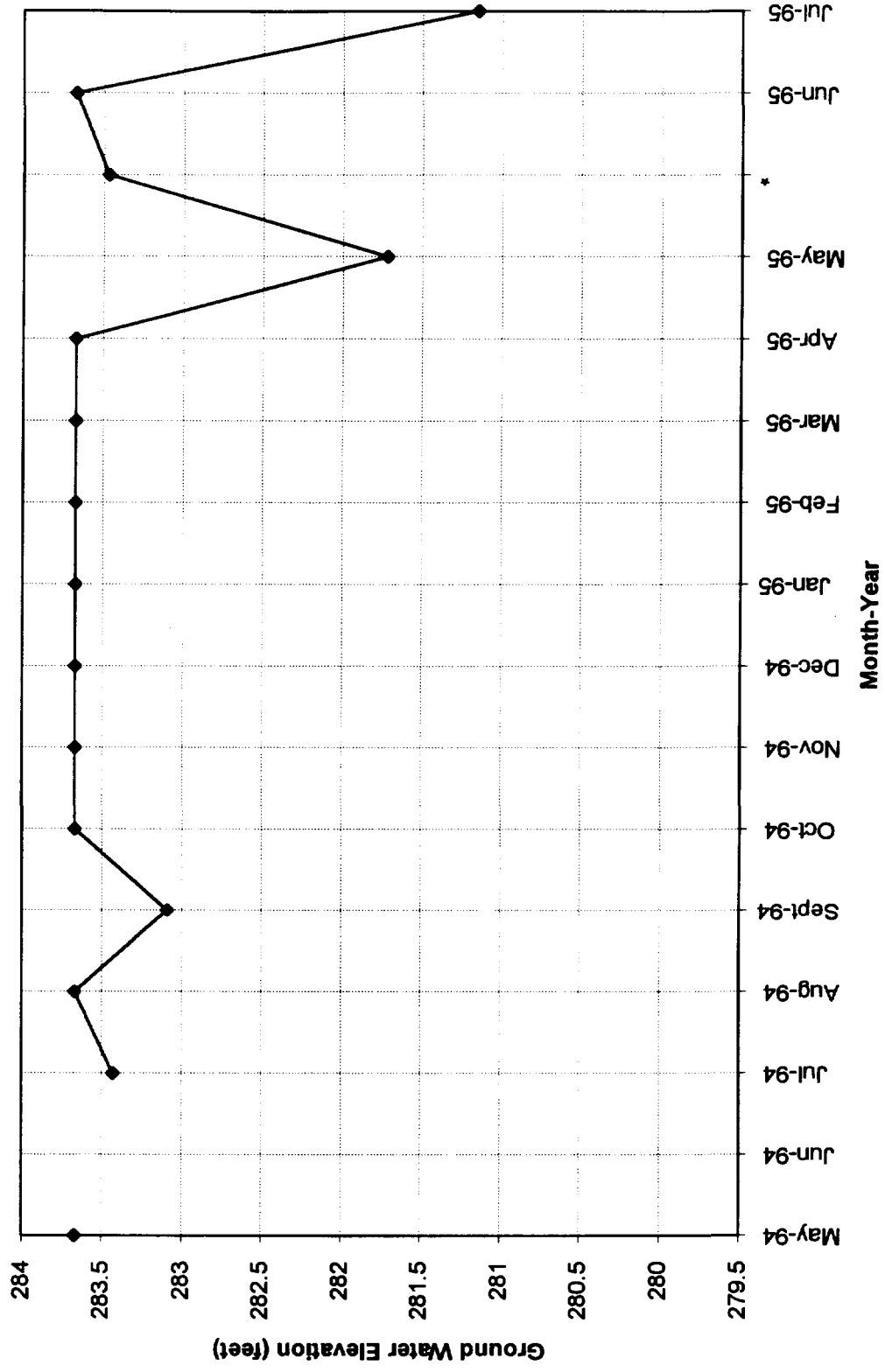
COMPARATIVE GROUND WATER LEVEL DATA

NAI-M2 Shallow Bedrock Well



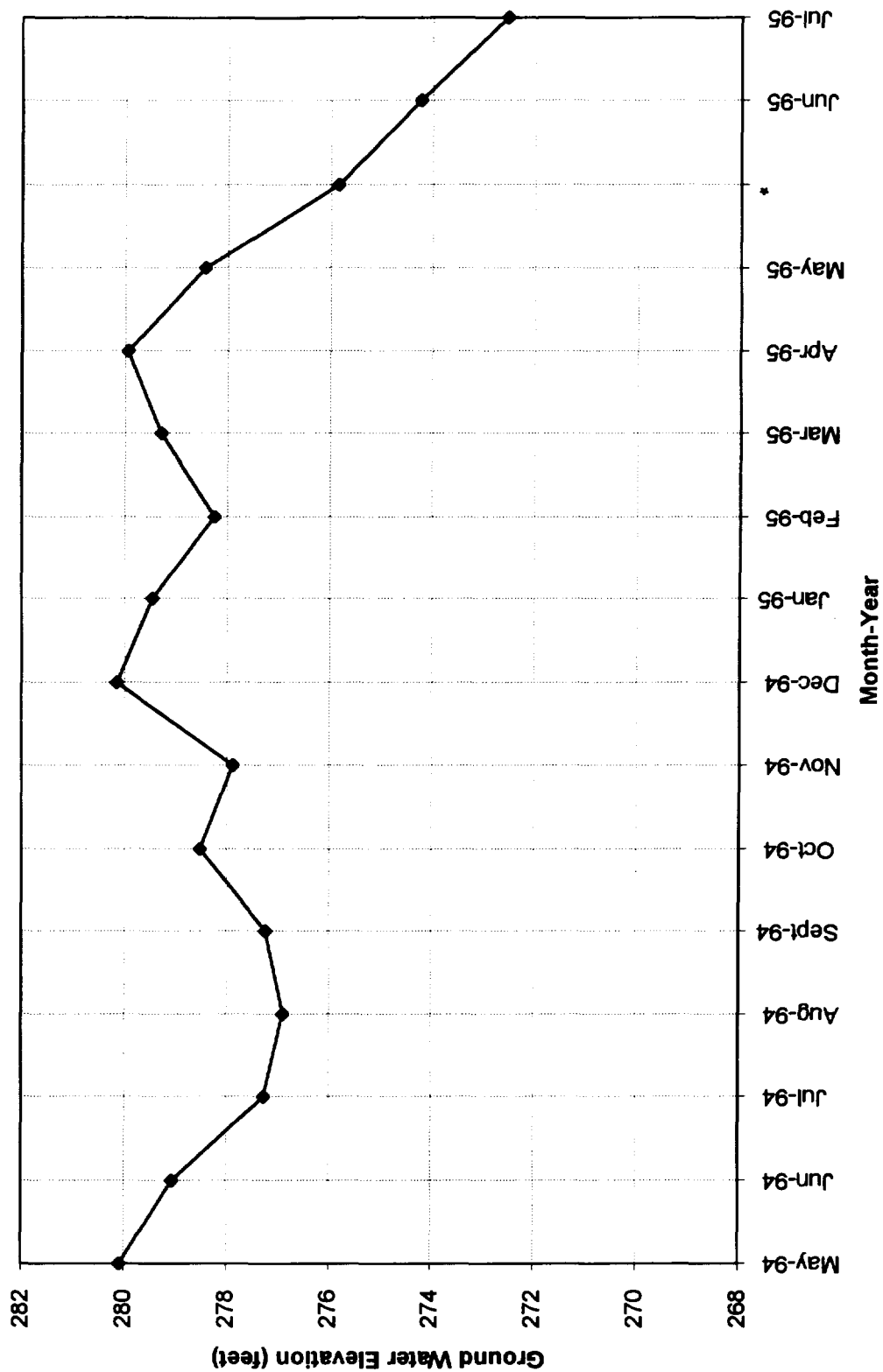
* = levels from 1-3 days after system started May 22, 1995

COMPARATIVE GROUND WATER LEVEL DATA ERT-01 Intermediate / Deep Bedrock Well



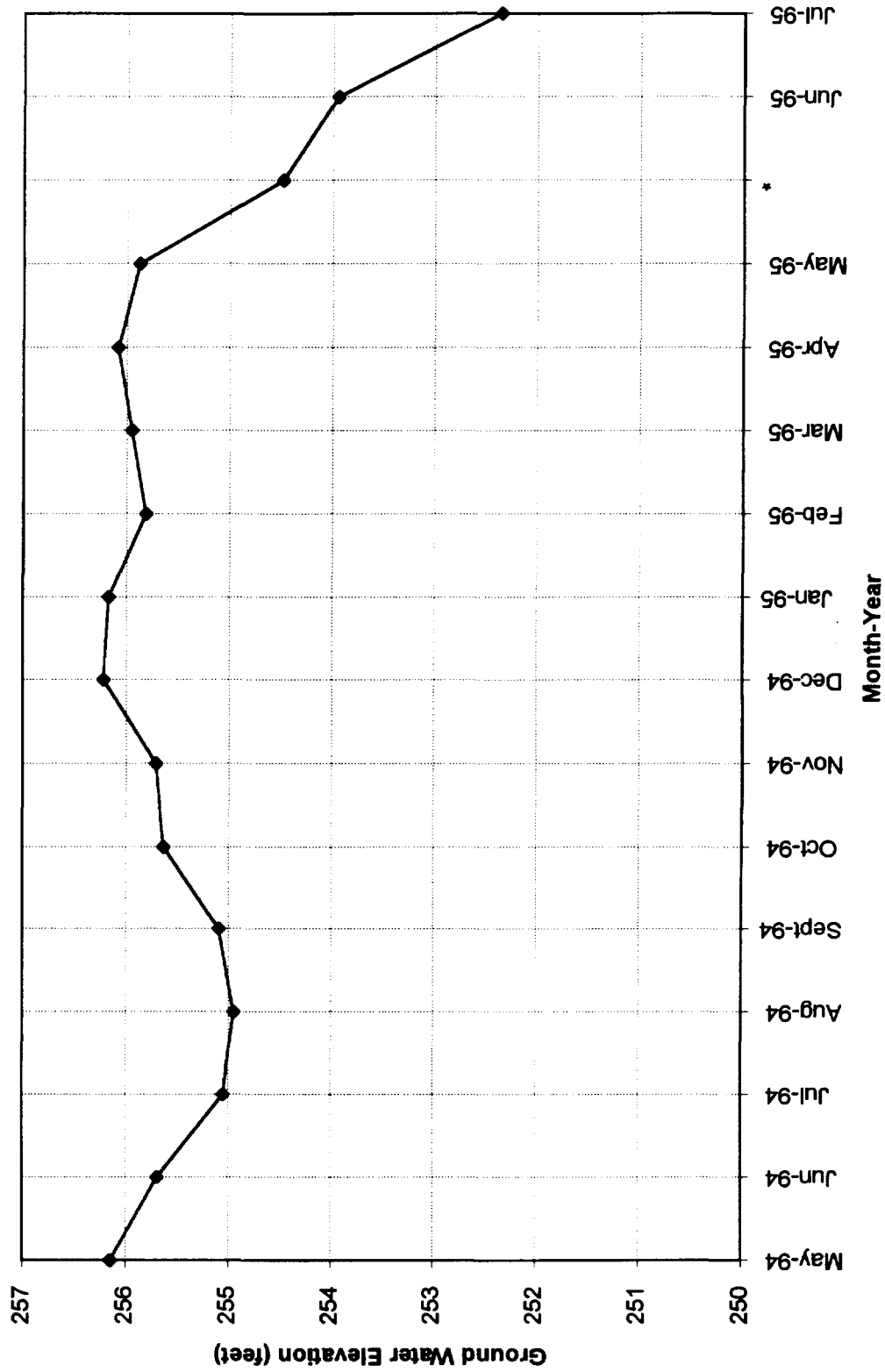
* = Levels from 1-3 days after system started May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA ERT-02 Intermediate Bedrock Well



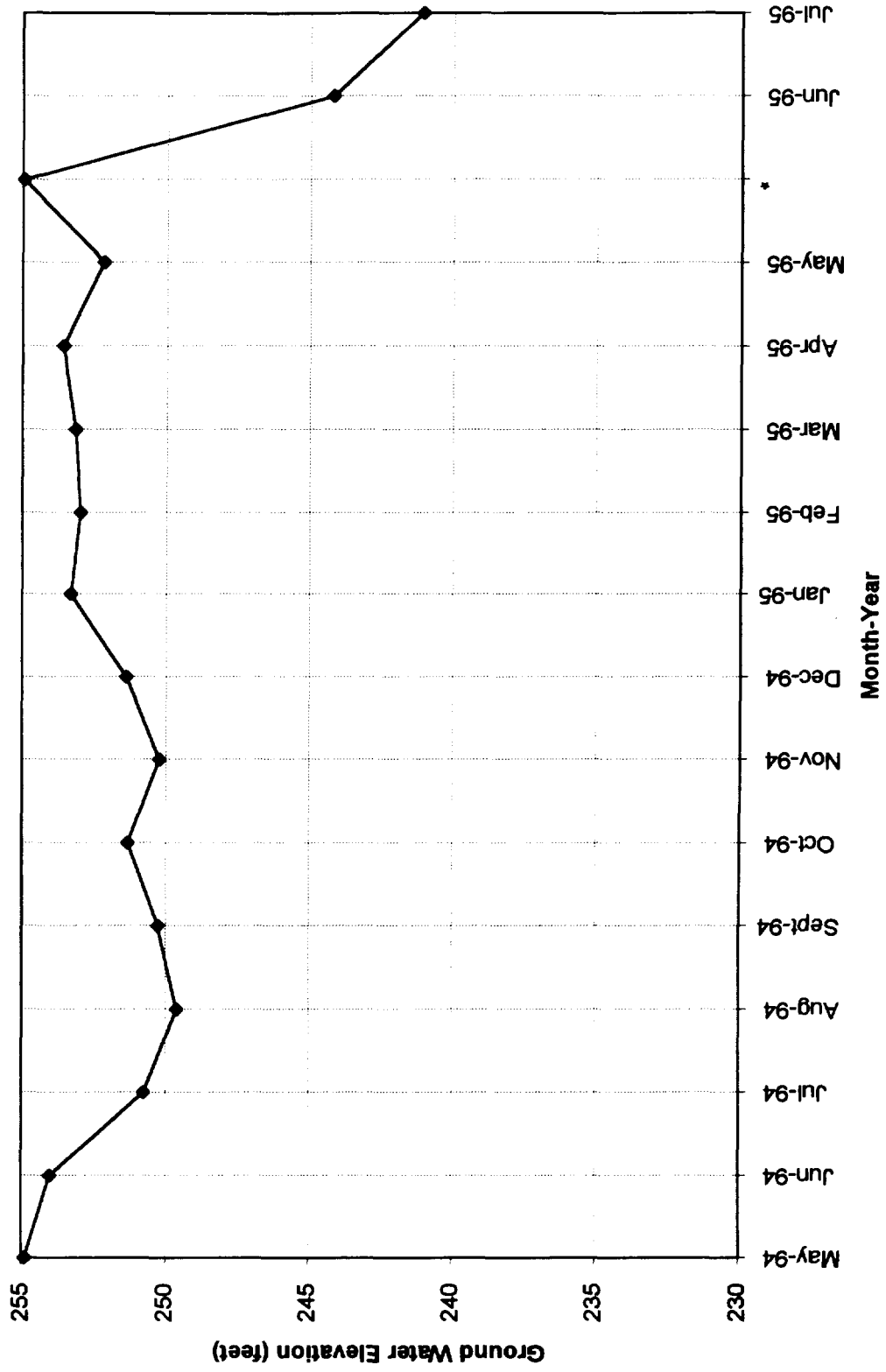
* = Levels from 1-3 days after system started May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA ERT-03 Intermediate Bedrock Well



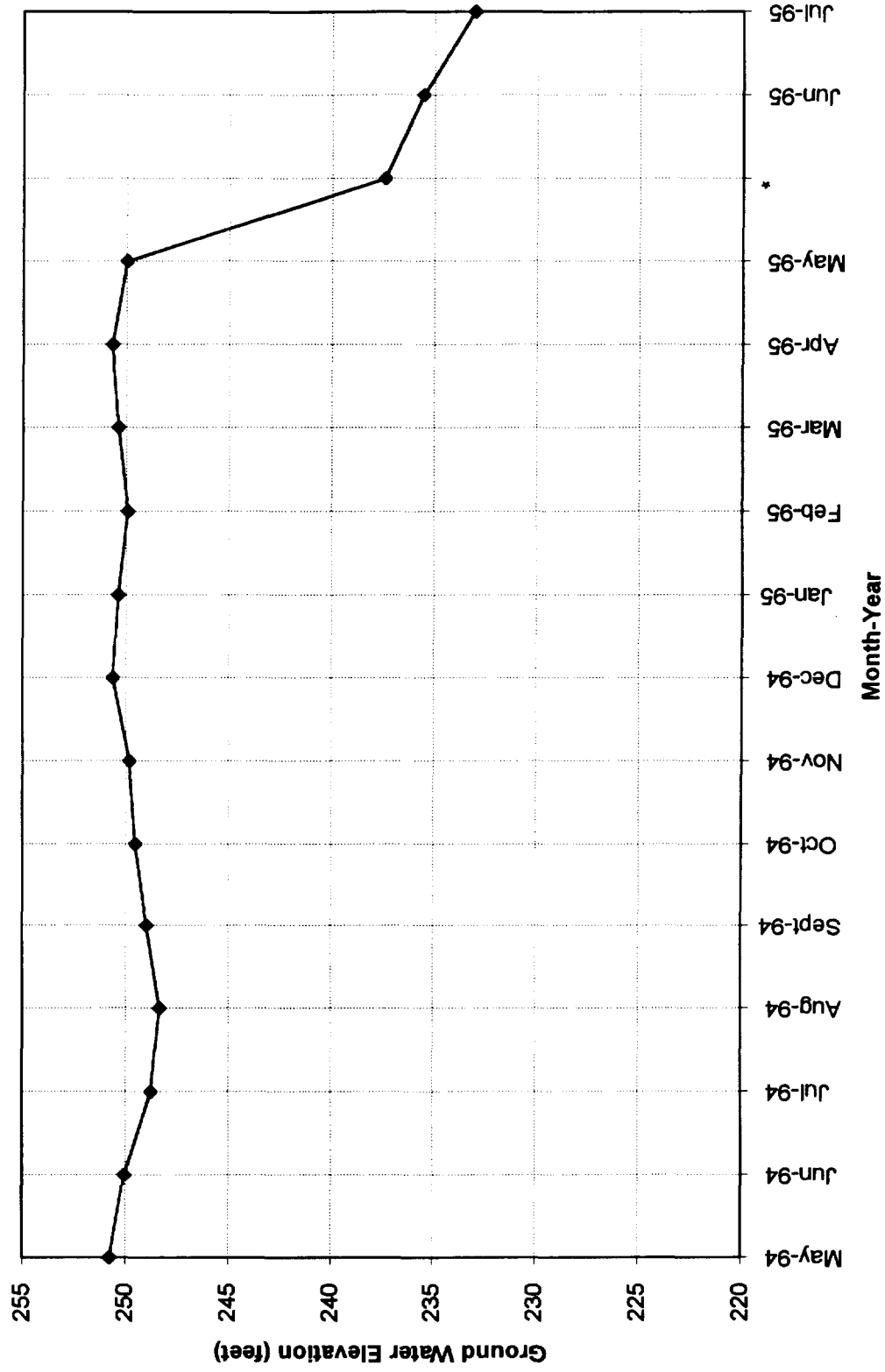
* = Levels from 1-3 days after system started May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA ERT-04 Intermediate Bedrock Well



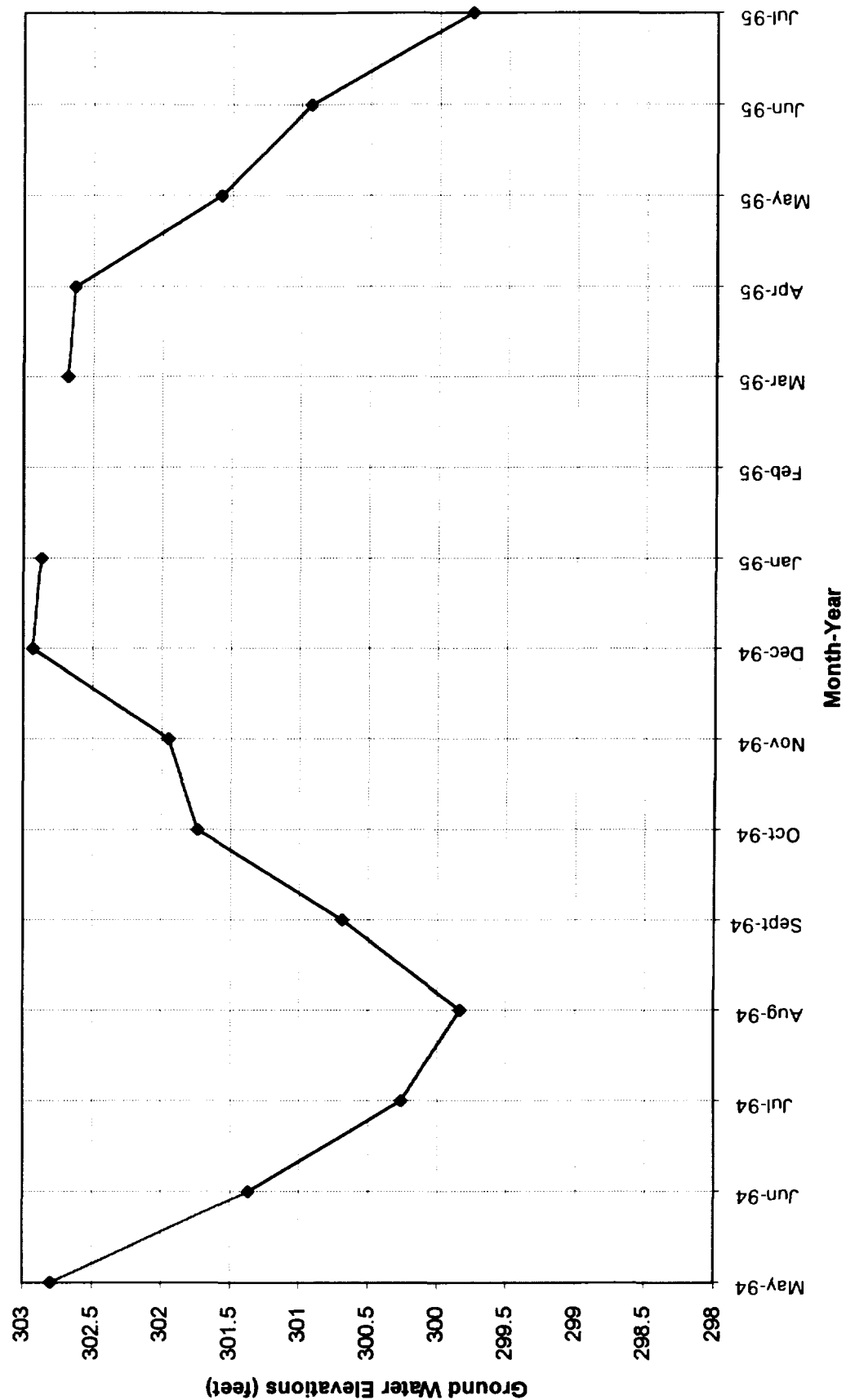
* = Levels from 1-3 days after system started May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA ERT-06 Intermediate Bedrock Well



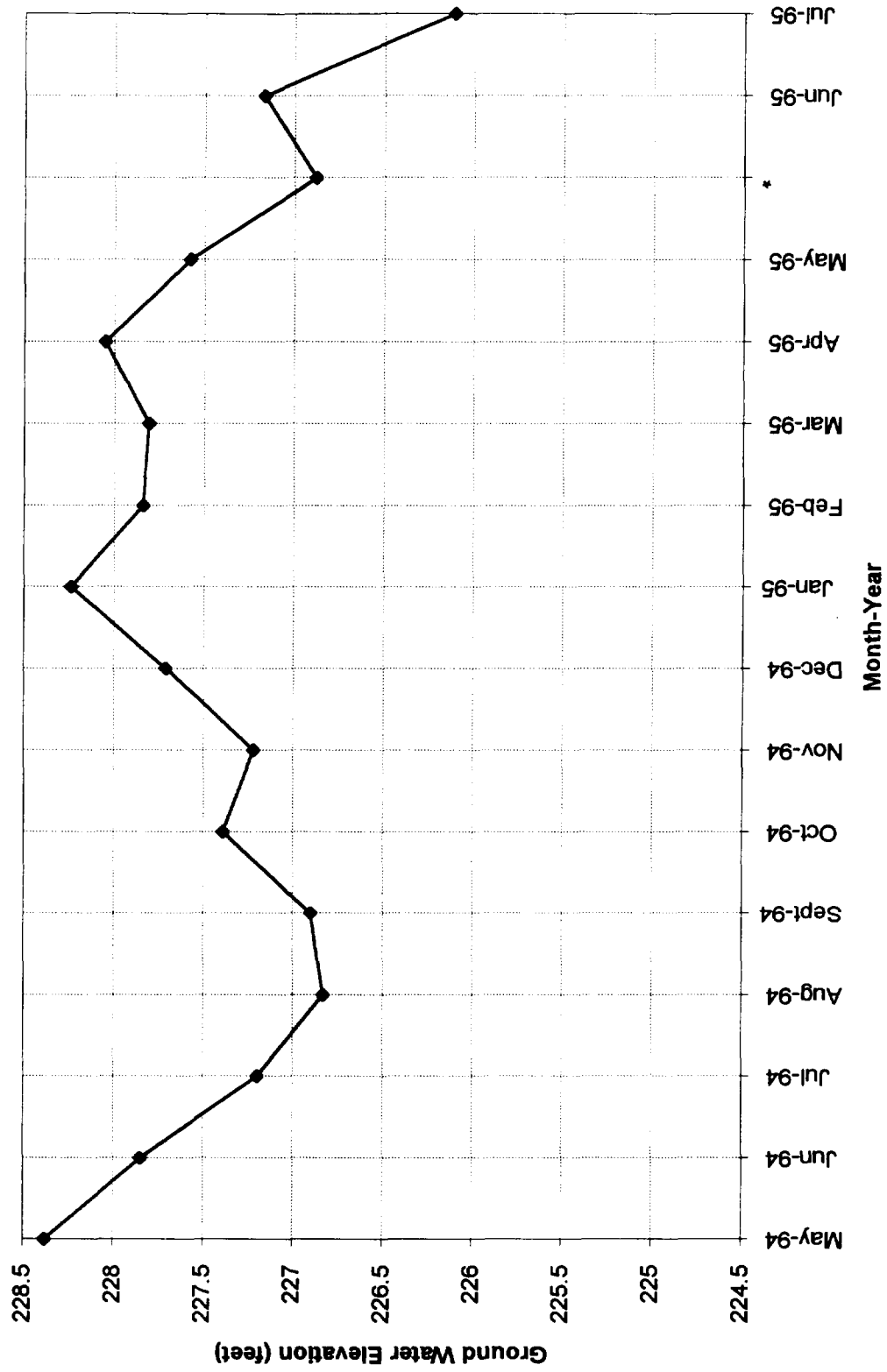
* = Levels from 1-3 days after system started May 22, 1995.

**COMPARATIVE GROUND WATER LEVEL DATA
ERT-08 Intermediate / Deep Bedrock Well**



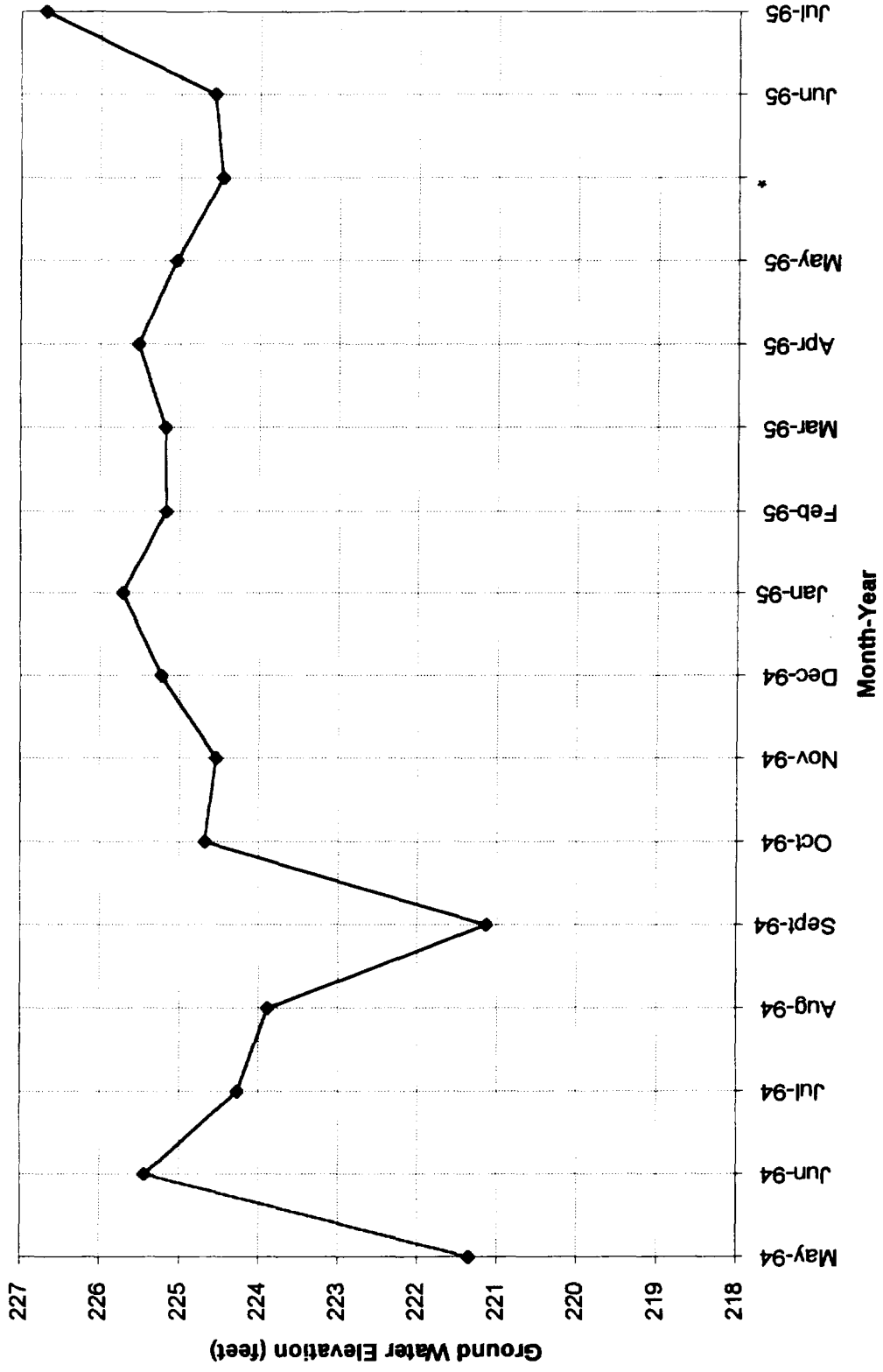
May levels are prior to start of MOM remedy pumping system on May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA RD-D Intermediate / Deep Bedrock Well



* = Levels from 1-3 days after system started May 22, 1995.

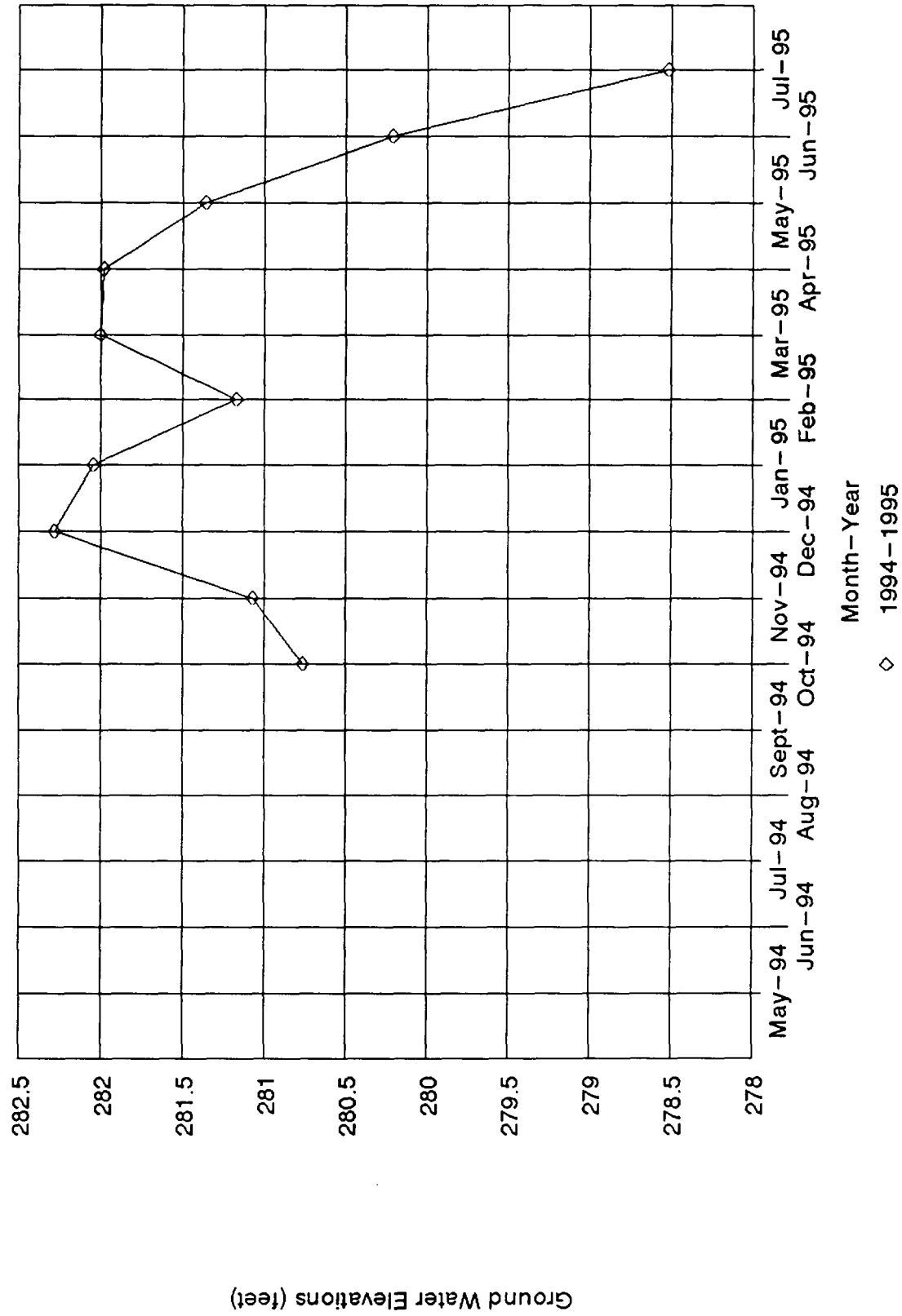
COMPARATIVE GROUND WATER LEVEL DATA RD-S Overburden Well



* = Levels from 1-3 days after system started May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA

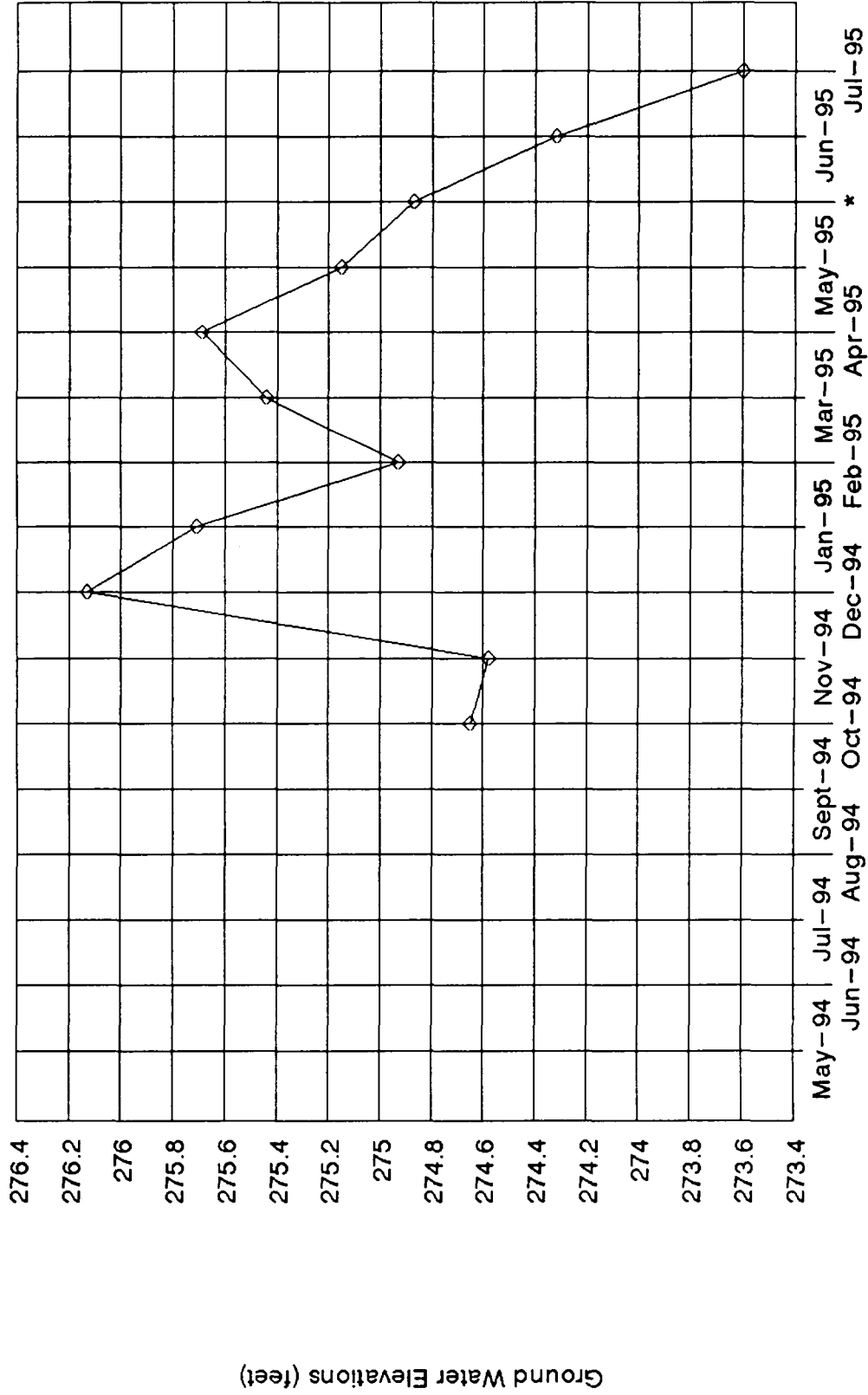
OW--1 Overburden Well



May levels are prior to start of MOM remedy pumping system on May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA

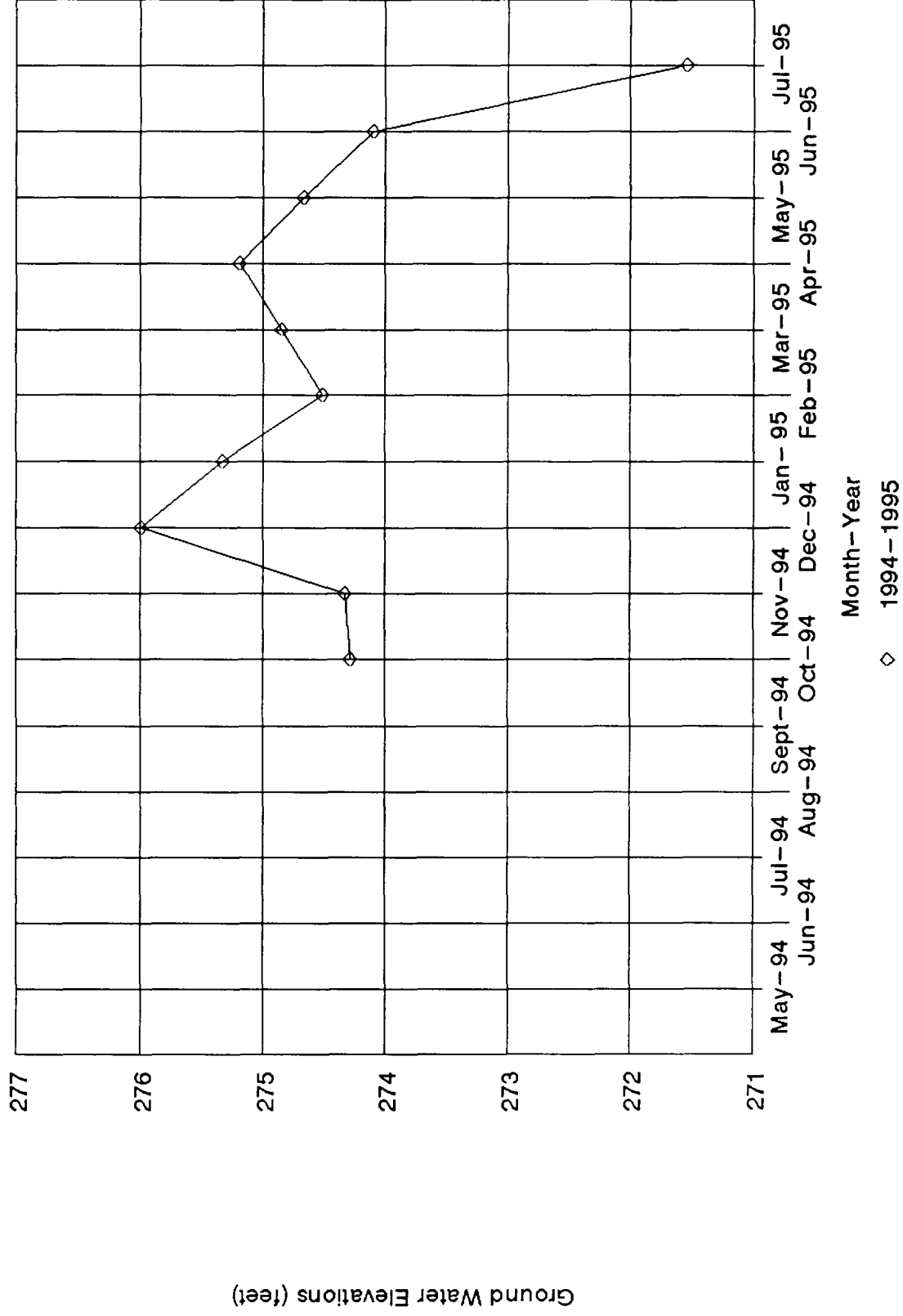
OW-2D Overburden Well



* = levels from 1-3 days after system started May 22, 1995

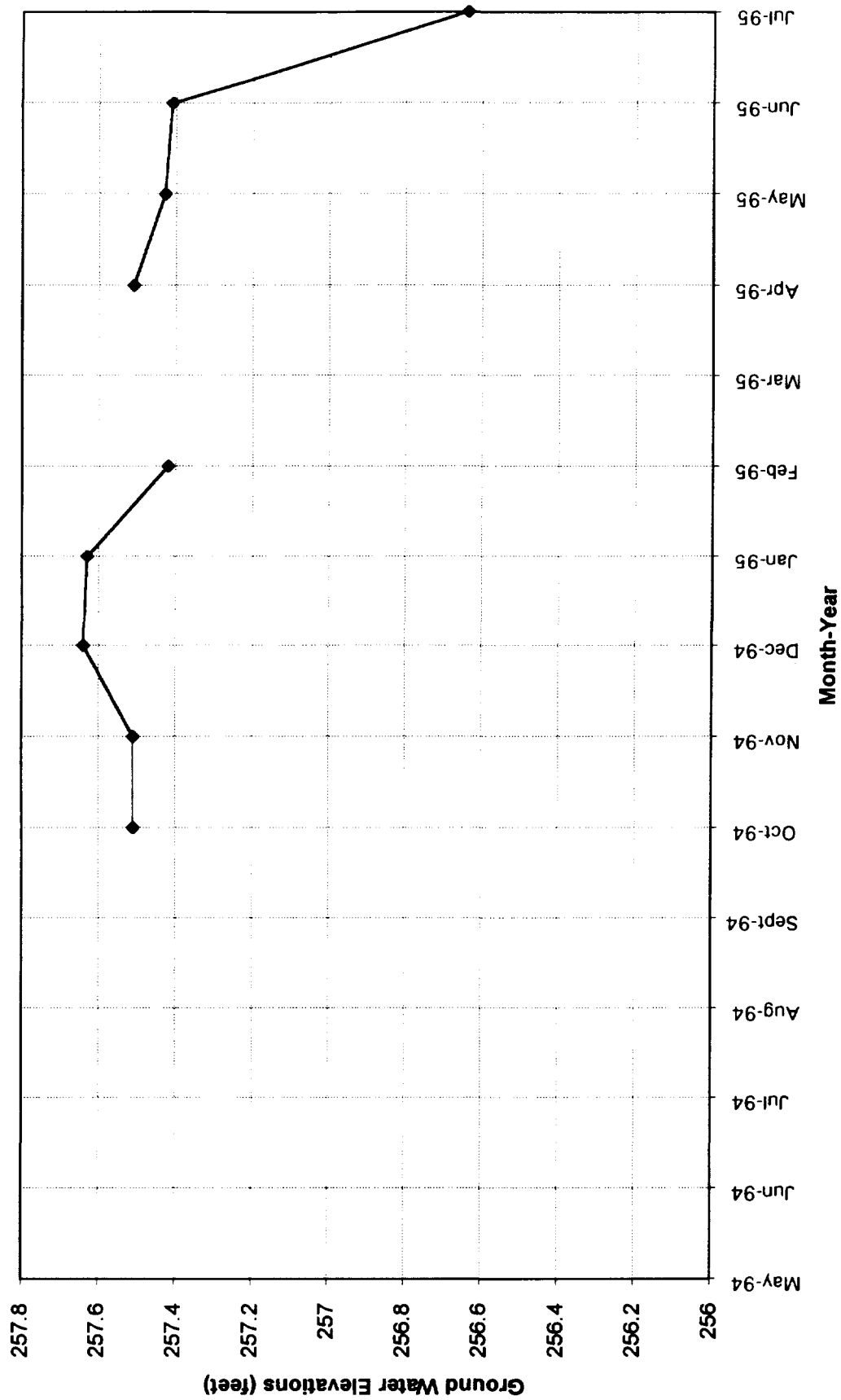
COMPARATIVE GROUND WATER LEVEL DATA

OW-2S Overburden Well



May levels are prior to start of MOM remedy pumping system on May 22, 1995.

COMPARATIVE GROUND WATER LEVEL DATA
OW-3 Overburden Well



May levels are prior to start of MOM remedy pumping system on May 22, 1995.