UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: NOV 30 1990

SUBJECT: Review of Region 5 data for SOGHIRO SERVICE CORP

FROM: Curtis Ross, Director Chuck Ely
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF 7452
Sample Numbers: 91FF27548-50, 91FF27049, 91FF03R57
Parameter(s): Pesticides - PCB's - Water
Laboratory: CRL (WESTON / ESAT)

Results Status:

(✓) DATA ACCEPTABLE FOR USE*
( ) DATA QUALIFIED AS TO USE
( ) DATA UNACCEPTABLE FOR USE

* For data acceptability requirements, refer to the method capability statement for the methods referenced.

Comments by the Quality Control Coordinator:

If there are any questions regarding the data, refer them to James Adams the Quality Control Coordinator, at 353-9604

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

NOV 30

U.S. EPA CENTRAL REGIONAL LAB

RECEIVED BY/DATE:
Comments:

DATA SET	SITE	DU/ACT.
SF 17452	Sohigro Service Corp	TFA 302

SAMPLES	PARAMETER(S)
91FF27548-50, D49, 91FF03857	PCB-Pesticides /WATER

SAMPLED	RECEIVED	DUE	LAB
10/17/90	10/18/90	11/8/90	CRL (WESTON/ESAT)

SHIPPED	DATA RECEIVED	CONTRACT

Comments By Reviewer:

QC data and instrument audits are acceptable. The samples are negative for PCBs and pesticides of interest.

DATA ARE ACCEPTABLE FOR USE.

(✓) REVIEWED ( ) UNREVIEWED TEAM LEADER/DATE L Evangelista 11/27/90

(✓) REVIEWED ( ) UNREVIEWED SECTION CHIEF/DATE Eli Gang 11/29/90

(✓) REVIEWED ( ) UNREVIEWED QA COORDINATOR/DATE James W. Adams, Jr. 11/29/90

REVIEWED BY CONTRACT COORDINATOR/DATE

RECEIVED	TRANSMITTED	DATA MANAGEMENT COORDINATOR
11-30-90	11-30-90	Griffin

CC: QUALITY CONTROL COORDINATOR

ENVIRONMENTAL PROTECTION AGENCY, REGION V

DIVISION: FIT SUPERFUND SAMPLING DATE: 10-17-90 ARRIVAL DATE: 10-18-90 ANALYSIS DUE DATE: 11-8-90

DATA SET #: 7452 ACTIVITY #: TFA 302 STUDY: SOHIGRO SERVICE CO

REPORTING UNITS ARE: ug/L Sample Type: (Water), Sediments, Oil, Sludge, Wipes

Pesticide / Sample #	Y-BHC Lindane	Heptachlor	Aldrin	Heptachlor Epoxide	Endosulfan I	Dieldrin	Endrin	Endosulfan II	pp-DDE	Beta-BHC	Delta-BHC	Alpha-BHC	pp-DDD	pp-DDT	Methoxychlor	Endosulfan Sulfate	Endrin Aldehyde	Endrin Ketone	alpha-Chlordane	gamma-Chlordane
1. 91FF27S48	0.002 U	0.030 U	0.020 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.040 U	0.020 U	0.020 U	0.13 U	0.050 U	0.030 U	0.025 U	0.025 U
2. 91FF27S49	0.002 U	0.030 U	0.020 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.020 U	0.020 U	0.020 U	0.040 U	0.020 U	0.020 U	0.13 U	0.050 U	0.030 U	0.025 U	0.025 U
3. 91FF27S50	0.002 U	0.030 U	0.020 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.020 U	0.020 U	0.020 U	0.040 U	0.020 U	0.020 U	0.13 U	0.050 U	0.030 U	0.025 U	0.025 U
4. 91FF27D49	0.002 U	0.030 U	0.020 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.020 U	0.020 U	0.020 U	0.040 U	0.020 U	0.020 U	0.13 U	0.050 U	0.030 U	0.025 U	0.025 U
5. 91FF03R57	0.002 U	0.030 U	0.020 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.020 U	0.020 U	0.020 U	0.040 U	0.020 U	0.020 U	0.13 U	0.050 U	0.030 U	0.025 U	0.025 U
6.																				
7.											Krystyna Olivius									
8.													11/7/90							
9.												L Evangelista (CRL)								
10.													11/14/90							
11.																				
12.																				

ENVIRONMENTAL PROTECTION REGION V

DIVISION: FIT SUPERFUND SAMPLING DATE: 10-17-90 ARRIVAL 10-18-90 ANALYSIS DUE DATE: 11-8-90

DATA SET #: 7452 ACTIVITY #: TFA 302 STUDY: SOFIGRO SERVICE CO.

REPORTING UNITS ARE: UG/L Sample Type: (Water), Sediments, Oil, Sludge, Wipes

#	Sample #	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Toxaphene	T-Chlordane	
1.	91FF27S48	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	
2.	91FF27S49	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	
3.	91FF27S50	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	
4.	91FF27D49	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	
5.	91FF03R57	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.20 U	
6.								
7.								
8.					Krystyna Minard			
9.					11/7/90			
10.								
11.					I Evangelista (CRL)			
12.					11/14/90			
13.								

ESAT CONTRACT

TID NO: 05-90-10-12
TASK NO: 3779

DATASET CUSTODY TRANSFER FORM

Analytical testing was completed on Nov 1, 1990 for:

DATASET NO: SF 7452 SITE NAME: SOHIGRO SERVICE CORP

PARAMETER : PESTICIDES / PCB's

MATRIX : WATER SF DU/ACT NO: TFA 302 Y____ /C____

SAMPLE NUMBERS: 91FF27548-50, 91FF27D49, 91FF03R57

NUMBER OF SAMPLES: 5

ESAT APPROVALS:

Krystyna Mincuk 11/7/90 (ANALYST DATE)

Sandra Faulko 11/7/90 (~~TEAM LEADER~~ DATE)

C Sims Bearden 11/7/90 (QC COORDINATOR DATE)

P. H. Wesley 11-7-90 (ESAT TEAM MANAGER DATE)

COMMENTS: All corrections made and data set returned on 11/26/90. DKC 11/26/90

The subject dataset was transferred to the custody of the U.S. EPA Region V Central Regional Laboratory in its entirety on the date indicated below.

Sandra Faulko 11-7-90 (DELIVERED BY DATE)

E. B. Evangelista 11/7/90 (RECEIVED BY DATE)

EPA APPROVALS:

L. Evangelista 11/27/90 (EPA TASK MONITOR DATE)

[✓] Reviewed - 11/23/90
[ ] Unreviewed
[✓] Accepted — 11/27/90
[ ] Rejected
[✓] Returned/ 11/23/90 (Date)

COMMENTS: Please make necessary corrections on the header info regarding Det. 0 + 1 Designations. LE 11/23

[illegible] 11/29/90 (SECTION CHIEF DATE)

[✓] Reviewed [ ] Unreviewed

Jay Thackeray 11-29-90 (ESAT DPO DATE)

Sylvia Griffin 11/30/90, 11/30/90 (DATA COORD'R REC'D TRANSMTD)

DOC.NO.: ESAT-05-0003-FORM
REVISION NO.: 05 (04/05/89) FILE LOCATION NUMBER: 5.6.1

ROY F. WESTON, INC.
C/O ESAT Project
Room 671
536 South Clark Street
Chicago IL 60605
(312)-353-2895

Dataset No: SF 7452

Task No: 3779

PESTICIDE/PCB DELIVERABLES CHECK-OFF LIST

PRESENT	NOT REQD	
[X]	[ ]	DATA USERS REPORT
[X]	[ ]	DATASET CUSTODY TRANSFER FORM
[X]	[ ]	SAMPLE REPORT LOG
[X]	[ ]	PESTICIDE RESULTS SUMMARY
[X]	[ ]	PCB RESULTS SUMMARY
[X]	[ ]	NARRATIVE
[X]	[ ]	EXTRACTION/BENCH SHEET
[X]	[ ]	RUN SEQUENCE
[X]	[ ]	SURROGATE RECOVERY
[ ]	[X]	SURROGATE RT %D
[X]	[ ]	PESTICIDE MS/MSD
[X]	[ ]	MS/MSD RAW DATA
[X]	[ ]	PCB MS/MSD
[X]	[ ]	MS/MSD RAW DATA
[ ]	[X]	LINEARITY CHK %RSD
[X]	[ ]	ENDRIN BREAKDOWN
[X]	[ ]	DDT BREAKDOWN
[X]	[ ]	INT. STD. AREAS
[ ]	[X]	METHODS PRINTOUT

PRESENT	NOT REQD		
[X]	[ ]	ENDRIN/DDT BREAKDOWN RAW DATA	
[ ]	[X]	CCV	
[X]	[ ]	METHOD BLANK	
		QUANTITATION COLUMN	
[X]	[ ]	PESTA	5 LEVELS ~~LOW, MED, HI~~
[X]	[ ]	PESTB	5 LEVELS ~~LOW, MED, HI~~
[ ]	[X]	1016	MED
[ ]	[X]	1232	MED
[X]	[ ]	1242	~~LOW, MED, HI~~ 5 LEVELS
[ ]	[X]	1248	LOW, MED, HI
[ ]	[X]	1254	LOW, MED, HI
[ ]	[X]	1260	LOW, MED, HI
		CONFIRMATION COLUMN	
[X]	[ ]	PESTA	5 LEVELS ~~LOW, MED, HI~~
[X]	[ ]	PESTB	5 LEVELS ~~LOW, MED,~~ HI
[ ]	[X]	1016	MED
[ ]	[X]	1232	MED
[X]	[ ]	1242	~~LOW, MED, HI~~ 5 LEVELS
[ ]	[X]	1248	LOW, MED, HI
[ ]	[X]	1254	LOW, MED, HI
[ ]	[X]	1260	LOW, MED, HI
[X]	[ ]	SAMPLE RESULTS AND RAW DATA	
[ ]	[X]	SAMPLE TAGS	
[ ]	[X]	ARCHIVE REFERENCE	

APPROVAL

DPO DATE IN

Jay Thapper 10·19·90

DPO DATE OUT

II

EPA, REGION V
CENTRAL REGIONAL LABORATORY
WESTON/ESAT ANALYSIS

PCB'S/PESTICIDES
ANALYSIS

APPROVAL

ETM DATE OUT

P. Hersh 10-19-90

ETM DATE IN

TID # 10-12
START DATE 10/19
DUE DATE 10/31
EST. HRS. REQUIRED FOR ANALYSIS

10-12

SE #	DATA SET #	SITE NAME AND CODE	CHEMIST	# OF SAMPLES	DATE ASSIGNED	DATE COMPLETED	TIME SPENT	EST. HRS.	TECHNICAL QUALITY	COMPLIANCE WITH SCHEDULE	TASK NO.
	SF 7452	Sohigro Service Co.		5	10/19			32.5			3779

PART I
FORMS

A. CRL Data Transmittal Form

B. Sample Analysis Request Sheet

C. Sample Report Forms
   i) Pesticides
   ii) PCBs

D. Data Set Narrative

E. Sample Preparation Bench Sheet

F. GC Run Sequence
   i) Primary
   ii) Secondary

G. Internal Standard Response and Retention Time table
   i) Primary
   ii) Secondary

H. Endrin and DDT Degradation Forms
   i) Primary
   ii) Secondary

I. Initial and Continuing Calibration Forms
   i) Standard Pesticide Mix A
      a) Primary
      b) Secondary
   ii) Standard Pesticide Mix B
      a) Primary
      b) Secondary
   iii) Standard Aroclor 1242
      a) Primary
      b) Secondary
   iv) Standard TCMX
      a) Primary
      b) Secondary

J. Matrix Spike (AQC) Forms
   i) Primary
   ii) Secondary

K. Surrogate Spike Recovery Form (primary and secondary)

51/23

TFA302

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: PESTICIDES AND PCB'S

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 10-17-90 LAB ARRIVAL DATE 10-18-90 DUE DATE 11-~~7~~ 8-90

DU NUMBER TFA-~~102~~ DATA SET NUMBER 7452 STUDY Sothgro Service Co. PRIORITY — CONTRACTOR —

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER TRIHALOMETHANES UG/L PES17414	WATER POLYCHLORINATED BIPHENYLS UG/L PES 17144	WATER CHLORINATED PESTICIDES UG/L PES 17134	WATER HERBICIDES UG/L PES 17424	WATER OIL AND GREASE MG/L PES 17439
91FF27S48	MSD/RW1 5-133787-91		X	X		
49	RW2 5-133799-800		X	X		
50	RW3 5-133817-18		X	X		
D 49	Dup 5-133808-09		X	X		
91FF03R57	Blank 5-133826 5-133827		X	X		

Shipment is Complete

Date: November 26, 1990
To : Linda S. Evangelista, Organic Section Team Leader
From: Sandra Foulks/Kirk Cromer, Weston/ESAT KC 11/26/90
Thru: P. Hershey, ETM SF 11/26/90

Subject: Pesticide/PCB analysis for data set SF 7452

Five (5) water samples were received in custody on 10/19/90 for pesticide/PCB analysis by CRL Method 608DNS. Sample extraction was begun on 10/23/90 and completed on 10/26/90. A total of ten (10) sample extracts, including QC, were analyzed. No major problems were encountered and all sample holding times were met.

GC SYSTEM PERFORMANCE

Both the primary (1.5% SP-2250/1.95% SP-2401) and the confirmatory (3% SP-2100) columns had acceptable performance with respect to endrin and 4,4'-DDT degradation (values for both were less than 7%).

BLANKS

The method blank and field blank (91FF03R57) both reported no detectable amounts of target compounds.

SURROGATE RECOVERIES

This data set was concentrated using the new CRL methodology where lower temperatures are used during concentration of the extractants.

Because lower temperatures are used and the extractants require longer to concentrate, a higher recovery of the surrogate was expected. Surrogate (TCMX) recoveries on the primary column ranged from 67.2% to 86.8%. The confirmatory column TCMX recoveries are in close agreement with the primary column values, ranging from 66.6% to 116.3%. These recoveries are within an acceptable range. Samples were spiked with a new solution of TCMX surrogate, dated 10/04/90.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The pesticide and PCB matrix spike/matrix spike duplicate (MS/MSD) samples had generally acceptable results; recoveries range from 80.0% to 119% with the following exceptions:

Primary column - one analyte in the pesticide MS and pesticide MSD samples had unacceptable recoveries - methoxychlor at 540% and 556%, respectively. The PCB MS/MSD recoveries were acceptable. The %RPD values were acceptable for all analytes.

The high recovery of methoxychlor in both the MS and MSD samples could be due to a persistent, systematic contaminant that has been seen in previous analyses of data sets. This contaminant can also be seen in the analyses of the samples in this data set ; the most likely source of this contaminant is due to a phthalate interference co-eluting with the methoxychlor. Because of such a major contamination, the values from the secondary column should be used in determining the percent recovery for this analyte; recoveries on the secondary column are 93% and 92%, respectively.

Confirmatory column - All recovery values based on the confirmatory column analysis were acceptable with the exception of MS %REC for 4,4'-DDT which has a recovery of 138% (75-125% acceptable). This exception has no affect on the sample data. All %RPD values were acceptable.

The QC data based on the MS/MSD results is generally acceptable.

INTERNAL STANDARD SUMMARY

The external standard method was used to quantitate all samples and standards in this data set. The internal standard quantitation method was not used due to an incorrect amount of the internal standard (Mirex) added to the Pesticide Mix A Level 3 and the Pesticide Mix B Level 3. The areas for Mirex of these two standard samples has been omitted from the Internal Standard Summary form because of their low values which would bias the %RSDs (and other statistics concerned) of the other samples.

Internal standard area counts are within ± 2 standard deviation (SD) units of the mean. The area %RSDs for the primary column areas (2.52%) and the confirmatory column areas (4.73%) are considered acceptable.

CALIBRATION

Initial calibrations for Pesticide Mix A and Pesticide Mix B were quantified using the external standard method because of the problem encountered with the internal standard (Mirex) areas of level 3. The initial calibrations for PCB 1242 were quantified using the internal standard method.

All initial calibrations on the primary column met or exceeded CRL requirements with correlation coefficients of 0.99 or better, with the exception of PCB 1242 level 5 - 0.9884. The confirmatory column met or exceeded CRL requirements with correlation coefficients of 0.99 or better.

CONTINUING CALIBRATIONS

Three sets of continuing calibrations were run as part of this data set, labeled as L3 #3, L3 #4 and L3 #5 for the Pesticide Mix A, Pesticide Mix B, Aroclor 1242 and TCMX.

Primary Column

All the continuing calibrations for Pesticide Mix A and Pesticide Mix B have acceptable RPDs.

Aroclor 1242 - All the continuing calibrations have acceptable RPDs with the exception of peak 1242-5 in continuing calibration #3 (low area). The low area is due to the baseline being drawn incorrectly, causing RPDs to be higher than the true values. Sample analyses are not affected by this exception.

TCMX - All the continuing calibrations have acceptable RPDs.

Confirmatory Column

All the continuing calibrations for Pesticide Mix A, Pesticide Mix B and TCMX have acceptable RPDs.

Aroclor 1242 - Continuing calibrations #3 and #4 have acceptable %RPDs for all peaks. Continuing calibration #5 has slightly higher than acceptable %RPD values for 1242-1, 1242-2 and 1242-4. Peaks 1242-3 and 1242-5 are acceptable.

SAMPLE RESULTS

No target compounds were detected above CRL Method 608DNS detection limits in the samples of this data set (91FF27S48-50 and 91FF27D49).

form
1C

PCB/PEST EXTRACTION

DATA SET(S) SF7452 DATE EXTRACTED: 10/23/90
SAMPLE TYPE(S) Water DATE CONCENTRATED: 10/26/90
EXTRACTION SYSTEM Sep funnel DATE COMPLETED: 10/26/90
SOLVENT SYSTEM CH_2Cl_2 VOLUMES USED BOX 3

SAMPLE #	SAMPLE AMOUNT	CONC. EXTRACT	DILUTIONS 1ST	2ND	3RD	FINAL VOL	INSTDS MRX/OTHER	pH
91FF27S48	1015	10.0						7.0
Pest MS 91FF27S48	1L.	10.0						7.0
Pest MSD 91FF27S48	1L	10.0						7.0
PCB-MS 91FF27S48	1040	10.0						7.0
PCB-MSD 91FF27S48	960	10.0						7.0
91FF27S49	1050	10.0						7.0
91FF27S50	1055	10.0						7.0
91FF27D49	1050	10.0						7.0
91FF03R57	1050	10.0						5.5
Method fl	1L	10.0						5.5

#	PREPARATION DATE	VOLUME
MATRIX SPIKE SOLUTION: Pest	~~10/04/90~~ 3/7/89	1
MATRIX SPIKE SOLUTION: PCB	5/16/90	1
SURROGATES: TCMX	10/04/90	1

PREP. CHEMIST Amfy Kowsky ANALYST Unytype [illegible]
Individual who witness by spiking: Unytype [illegible]

INITIAL CALIBRATION

PRIMARY COLUMN

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	NO INJECTION	W;2PESTA	W;2IC	1.0000	1.0000	1.00	1.000
2	HEXANE-1	W;2PESTA	W;2IC	1.0000	1.0000	1.00	1.000
3	ENDRIN-1	W:2ENDBD	W;2IC	1.0000	1.0000	1.00	1.000
4	DDT-1	W:2DDTBD	W;2IC	1.0000	1.0000	1.00	1.000
5	TCMX 0.009 UG/ML	W:2TCMX	W;2IC	1.0000	1.0000	1.00	1.000
6	RESTART SEQUENCE	W:2PESTA	W;2IC	1.0000	1.0000	1.00	1.000
7	PEST A L1	W:2PESTA	W;2IC	1.0000	1.0000	1.00	1.000
8	PEST A L2	W:2PESTA	W;2IC	1.0000	1.0000	1.00	1.000
9	PEST A L3	W:2PESTA	W;2IC	1.0000	1.0000	1.00	1.000
10	PEST A L4	W:2PESTA	W;2IC	1.0000	1.0000	1.00	1.000
11	PEST A L5	W:2PESTA	W;2IC	1.0000	1.0000	1.00	1.000
12	PEST B L1	W:2PESTB	W;2IC	1.0000	1.0000	1.00	1.000
13	PEST B L2	W:2PESTB	W;2IC	1.0000	1.0000	1.00	1.000
14	PEST B L3	W:2PESTB	W;2IC	1.0000	1.0000	1.00	1.000
15	PEST B L4	W:2PESTB	W;2IC	1.0000	1.0000	1.00	1.000
16	PEST B L5	W:2PESTB	W;2IC	1.0000	1.0000	1.00	1.000
17	PCB1242 L1	W:2PCB1242	W;2IC	1.0000	1.0000	1.00	1.000
18	PCB1242 L2	W:2PCB1242	W;2IC	1.0000	1.0000	1.00	1.000
19	PCB1242 L3	W:2PCB1242	W;2IC	1.0000	1.0000	1.00	1.000
20	PCB1242 L4	W:2PCB1242	W;2IC	1.0000	1.0000	1.00	1.000
21	PCB1242 L5	W:2PCB1242	W;2IC	1.0000	1.0000	1.00	1.000
22	PCB1221 0.5	W:2PCB1221	W;2IC	1.0000	1.0000	1.00	1.000
23	PCB1232 L35	W:2PCB1232	W;2IC	1.0000	1.0000	1.00	1.000
24	PCB1248 L3	W:2PCB1248	W;2IC	1.0000	1.0000	1.00	1.000
25	PCB1254 L3	W:2PCB1254	W;2IC	1.0000	1.0000	1.00	1.000
26	PCB1260 L3	W:2PCB1260	W;2IC	1.0000	1.0000	1.00	1.000
27	T CHLOR L3	W:2TCHLOR	W;2IC	1.0000	1.0000	1.00	1.000
28	TOX L3	W:2TOX	W;2IC	1.0000	1.0000	1.00	1.000

SEQUENCE RECORDED IN W:2MAG.SEQ

PRIMARY COLUMN

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1				1.0000	1.0000	1.00	1.000
2				1.0000	1.0000	1.00	1.000
3				1.0000	1.0000	1.00	1.000
4				1.0000	1.0000	1.00	1.000
5				1.0000	1.0000	1.00	1.000
6				1.0000	1.0000	1.00	1.000
7				1.0000	1.0000	1.00	1.000
8				1.0000	1.0000	10.00	1.000
9				1.0000	1.0000	10.00	1.000
10				1.0000	1.0000	10.00	1.020
11				1.0000	1.0000	10.00	1.020
12				1.0000	1.0000	10.00	1.025
13				1.0000	1.0000	1.00	1.000
14				1.0000	1.0000	1.00	1.000
15				1.0000	1.0000	1.00	1.000
16				1.0000	1.0000	1.00	1.000
17				1.0000	1.0000	10.00	0.990
18				1.0000	1.0000	10.00	1.020
19				1.0000	1.0000	10.00	1.025
20				1.0000	1.0000	10.00	1.025
21				1.0000	1.0000	10.00	1.020
22	PEST A L3 # 3	W:2PESTA	W:2MAG	1.0000	1.0000	1.00	1.000
23	PEST B L3 # 3	W:2PESTB	W:2MAG	1.0000	1.0000	1.00	1.000
24	PCB 1242 L3 # 3	W:2PCB1242	W:2MAG	1.0000	1.0000	1.00	1.000
25	TCMX #3	W:2TCMX	W:2MAG	1.0000	1.0000	1.00	1.000
26	ENDRIN #3	W:2ENDBD	W:2MAG	1.0000	1.0000	1.00	1.000
27	DDT # 3	W:2DDTBD	W:2MAG	1.0000	1.0000	1.00	1.000
28	HEXANE-2	W:2PESTA	W:2MAG	1.0000	1.0000	1.00	1.000
29	SF 7452 MB	W:2PESTA	W:2MAG	1.0000	1.0000	10.00	1.000
30	91FF03R57 SF 7452	W:2PESTA	W:2MAG	1.0000	1.0000	10.00	1.050
31	91FF27S49 SF 7452	W:2PESTA	W:2MAG	1.0000	1.0000	10.00	1.050
32	91FF27D49 SF 7452	W:2PESTA	W:2MAG	1.0000	1.0000	10.00	1.050
33	91FF27S50 SF 7452	W:2PESTA	W:2MAG	1.0000	1.0000	10.00	1.055
34	PEST A L3 #4	W:2PESTA	W:2MAG	1.0000	1.0000	1.00	1.000
35	PEST B L3 #4	W:2PESTB	W:2MAG	1.0000	1.0000	1.00	1.000
36	PCB 1242 L3 # 4	W:2PCB1242	W:2MAG	1.0000	1.0000	1.00	1.000
37	TCMX # 4	W:2TCMX	W:2MAG	1.0000	1.0000	1.00	1.000
38	91FF27S48 SF 7452	W:2PESTA	W:2MAG	1.0000	1.0000	10.00	1.015
39	91FF27S48 PEST MS SF	W:2PESTA	W:2MAG	1.0000	1.0000	10.00	1.000
40	91FF27S48 PEST MSD S	W:2PESTA	W:2MAG	1.0000	1.0000	10.00	1.000
41	91FF27S48 PCB MS SF	W:2PCB1242	W:2MAG	1.0000	1.0000	10.00	1.040
42	91FF27S48 PCB MSD SF	W:2PCB1242	W:2MAG	1.0000	1.0000	10.00	0.960
43	PEST A L3 #5	W:2PESTA	W:2MAG	1.0000	1.0000	1.00	1.000
44	PEST B L3 #5	W:2PESTB	W:2MAG	1.0000	1.0000	1.00	1.000
45	PCB 1242 L3 # 5	W:2PCB1242	W:2MAG	1.0000	1.0000	1.00	1.000
46	TCMX # 5	W:2TCMX	W:2MAG	1.0000	1.0000	1.00	1.000
47	ENDRIN # 4	W:2ENDBD	W:2MAG	1.0000	1.0000	1.00	1.000
48	DDT # 4	W:2DDTBD	W:2MAG	1.0000	1.0000	1.00	1.000

DKC
11/9/90

INITIAL CALIBRATION

SECONDARY COLUMN

SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 HEXANE-1	W:1PESTA	W:1IC	1.0000	1.0000	1.00	1.000
2 ENDRIN-1	W:1ENDBD	W:1IC	1.0000	1.0000	1.00	1.000
3 DDT-1	W:1DDTBD	W:1IC	1.0000	1.0000	1.00	1.000
4 TCMX 0.009 UG/ML	W:1TCMX	W:1IC	1.0000	1.0000	1.00	1.000
5 RESTART SEQUENCE	W:1PESTA	W:1IC	1.0000	1.0000	1.00	1.000
6 PEST A L1	W:1PESTA	W:1IC	1.0000	1.0000	1.00	1.000
7 PEST A L2	W:1PESTA	W:1IC	1.0000	1.0000	1.00	1.000
8 PEST A L3	W:1PESTA	W:1IC	1.0000	1.0000	1.00	1.000
9 PEST A L4	W:1PESTA	W:1IC	1.0000	1.0000	1.00	1.000
10 PEST A L5	W:1PESTA	W:1IC	1.0000	1.0000	1.00	1.000
11 PEST B L1	W:1PESTB	W:1IC	1.0000	1.0000	1.00	1.000
12 PEST B L2	W:1PESTB	W:1IC	1.0000	1.0000	1.00	1.000
13 PEST B L3	W:1PESTB	W:1IC	1.0000	1.0000	1.00	1.000
14 PEST B L4	W:1PESTB	W:1IC	1.0000	1.0000	1.00	1.000
15 PEST B L5	W:1PESTB	W:1IC	1.0000	1.0000	1.00	1.000
16 PCB1242 L1	W:1PCB1242	W:1IC	1.0000	1.0000	1.00	1.000
17 PCB1242 L2	W:1PCB1242	W:1IC	1.0000	1.0000	1.00	1.000
18 PCB1242 L3	W:1PCB1242	W:1IC	1.0000	1.0000	1.00	1.000
19 PCB1242 L4	W:1PCB1242	W:1IC	1.0000	1.0000	1.00	1.000
20 PCB1242 L5	W:1PCB1242	W:1IC	1.0000	1.0000	1.00	1.000
21 PCB1221 0.5	W:1PCB1221	W:1IC	1.0000	1.0000	1.00	1.000
22 PCB1232 L3	W:1PCB1232	W:1IC	1.0000	1.0000	1.00	1.000
23 PCB1248 L3	W:1PCB1248	W:1IC	1.0000	1.0000	1.00	1.000
24 PCB1254 L3	W:1PCB1254	W:1IC	1.0000	1.0000	1.00	1.000
25 PCB1260 L3	W:1PCB1260	W:1IC	1.0000	1.0000	1.00	1.000
26 T CHLOR L3	W:1TCHLOR	W:1IC	1.0000	1.0000	1.00	1.000
27 TOX L3	W:1TOX	W:1IC	1.0000	1.0000	1.00	1.000

SECONDARY COLUMN

SEQUENCE RECORDED IN W:1MAG.SEQ

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1				1.0000	1.0000	1.00	1.000
2				1.0000	1.0000	1.00	1.000
3				1.0000	1.0000	1.00	1.000
4				1.0000	1.0000	1.00	1.000
5				1.0000	1.0000	1.00	1.000
6				1.0000	1.0000	1.00	1.000
7				1.0000	1.0000	10.00	1.000
8				1.0000	1.0000	10.00	1.000
9				1.0000	1.0000	10.00	1.020
10				1.0000	1.0000	10.00	1.020
11				1.0000	1.0000	10.00	1.025
12				1.0000	1.0000	1.00	1.000
13				1.0000	1.0000	1.00	1.000
14				1.0000	1.0000	1.00	1.000
15				1.0000	1.0000	1.00	1.000
16				1.0000	1.0000	10.00	0.990
17				1.0000	1.0000	10.00	1.020
18				1.0000	1.0000	10.00	1.025
19				1.0000	1.0000	10.00	1.025
20				1.0000	1.0000	10.00	1.020
21	PEST A L3 #3	W:1PESTA	W:1MAG	1.0000	1.0000	1.00	1.000
22	PEST B L3 #3	W:1PESTB	W:1MAG	1.0000	1.0000	1.00	1.000
23	PCB1242 L3 #3	W:1PCB1242	W:1MAG	1.0000	1.0000	1.00	1.000
24	TCMX # 3	W:1TCMX	W:1MAG	1.0000	1.0000	1.00	1.000
25	ENDRIN # 3	W:1ENDBD	W:1MAG	1.0000	1.0000	1.00	1.000
26	DDT # 3	W:1DDTBD	W:1MAG	1.0000	1.0000	1.00	1.000
27	HEXANE-2	W:1PESTA	W:1MAG	1.0000	1.0000	1.00	1.000
28	SF 7452 MB	W:1PESTA	W:1MAG	1.0000	1.0000	10.00	1.000
29	91FF03R57 SF 7452	W:1PESTA	W:1MAG	1.0000	1.0000	10.00	1.050
30	91FF27S49 SF 7452	W:1PESTA	W:1MAG	1.0000	1.0000	10.00	1.050
31	91FF27D49 SF 7452	W:1PESTA	W:1MAG	1.0000	1.0000	10.00	1.050
32	91FF27S50 SF 7452	W:1PESTA	W:1MAG	1.0000	1.0000	10.00	1.055
33	PEST A L3 #4	W:1PESTA	W:1MAG	1.0000	1.0000	1.00	1.000
34	PEST B L3 #4	W:1PESTB	W:1MAG	1.0000	1.0000	1.00	1.000
35	PCB 1242 L3 # 4	W:1PCB1242	W:1MAG	1.0000	1.0000	1.00	1.000
36	TCMX # 4	W:1TCMX	W:1MAG	1.0000	1.0000	1.00	1.000
37	91FF27S48 SF 7452	W:1PESTA	W:1MAG	1.0000	1.0000	10.00	1.015
38	91FF27S48 PEST MS SF	W:1PESTA	W:1MAG	1.0000	1.0000	10.00	1.000
39	91FF27S48 PEST MSD S	W:1PESTA	W:1MAG	1.0000	1.0000	10.00	1.000
40	91FF27S48 PCB MS SF	W:1PCB1242	W:1MAG	1.0000	1.0000	10.00	1.040
41	91FF27S48 PCB MSD SF	W:1PCB1242	W:1MAG	1.0000	1.0000	10.00	0.960
42	PEST A L3 #5	W:1PESTA	W:1MAG	1.0000	1.0000	1.00	1.000
43	PEST B L3 #5	W:1PESTB	W:1MAG	1.0000	1.0000	1.00	1.000
44	PCB 1242 L3 #5	W:1PCB1242	W:1MAG	1.0000	1.0000	1.00	1.000
45	TCMX # 5	W:1TCMXD	W:1MAG	1.0000	1.0000	1.00	1.000
46	ENDRIN # 4	W:1ENDDB	W:1MAG	1.0000	1.0000	1.00	1.000
47	DDT # 4	W:1DDTBD	W:1MAG	1.0000	1.0000	1.00	1.000

INTERNAL STANDARD SUMMARY

DATASET: SF 7452 DATE: 11/06/90

PRIMARY COLUMN SAMPLE ID	FILE NAME	AREA	MIREX RT	CONFIRMATORY COLUMN SAMPLE ID	FILE NAME	AREA	MIREX RT
NO INJECTION	2IC1						
HEXANE #1	2IC2	2322593	24.33	HEXANE #1	1IC1	3032929	22.39
ENDRIN #1	2IC3	2306963	24.27	ENDRIN #1	1IC2	3025859	22.14
DDT #1	2IC4	2293422	24.15	DDT #1	1IC3	2982479	21.88
TCMX 0.009 UG/ML	2IC5	2299187	24.10	TCMX 0.009 UG/ML	1IC4	2946943	21.51
PEST A L1	2IC7	2283672	24.03	PEST A L1	1IC6	2880309	21.01
PEST A L2	2IC8	2284533	24.06	PEST A L2	1IC7	2930074	20.84
PEST A L3	2IC9			PEST A L3	1IC8		
PEST A L4	2IC10	2288482	24.10	PEST A L4	1IC9	2918622	21.08
PEST A L5	2IC11	2277664	24.11	PEST A L5	1IC10	2944822	21.18
PEST B L1	2IC12	2304752	24.13	PEST B L1	1IC11	2959835	21.26
PEST B L2	2IC13	2298062	24.15	PEST B L2	1IC12	2960915	21.38
PEST B L3	2IC14			PEST B L3	1IC13		
PEST B L4	2IC15	2391350	24.43	PEST B L4	1IC14	3013866	21.61
PEST B L5	2IC16	2386852	24.55	PEST B L5	1IC15	3107259	22.48
PCB 1242 L1	2IC17	2396010	24.63	PCB 1242 L1	1IC16	3186118	23.16
PCB 1242 L2	2IC18	2393825	24.68	PCB 1242 L2	1IC17	3246990	23.48
PCB 1242 L3	2IC19	2391811	24.72	PCB 1242 L3	1IC18	3237857	23.76
PCB 1242 L4	2IC20	2409025	24.75	PCB 1242 L4	1IC19	3283564	23.90
PCB 1242 L5	2IC21	2405204	24.77	PCB 1242 L5	1IC20	3306205	24.11
PEST A L3 #3	2MAG22	2226059	24.20	PEST A L3 #3	1MAG21	2796888	22.46
PEST B L3 #3	2MAG23	2271964	24.21	PEST B L3 #3	1MAG22	2860312	22.48
PCB 1242 L3 #3	2MAG24	2263134	24.21	PCB 1242 L3 #3	1MAG23	2867173	22.55
TCMX #3	2MAG25	2245835	24.21	TCMX #3	1MAG24	2838797	22.60
ENDRIN #3	2MAG26	2260918	24.21	ENDRIN #3	1MAG25	2886781	22.61
DDT #3	2MAG27	2286664	24.23	DDT #3	1MAG26	2917201	22.66
HEXANE-2	2MAG28	2313962	24.27	HEXANE-2	1MAG27	2958827	22.70
SF 7452 MB	2MAG29	2382148	24.28	SF 7452 MB	1MAG28	2963037	22.76
91FF03R57 SF 7452	2MAG30	2358350	24.27	91FF03R57 SF 7452	1MAG29	2958654	22.85
91FF27S49 SF 7452	2MAG31	2407143	24.25	91FF27S49 SF 7452	1MAG30	3014291	22.88
91FF27D49 SF 7452	2MAG32	2433516	24.23	91FF27D49 SF 7452	1MAG31	2940717	22.80
91FF27S50 SF 7452	2MAG33	2348632	24.21	91FF27S50 SF 7452	1MAG32	2914209	22.71
PEST A L3 #4	2MAG34	2215391	24.16	PEST A L3 #4	1MAG33	2879919	22.58
PEST B L3 #4	2MAG35	2253466	24.10	PEST B L3 #4	1MAG34	2890112	22.44
PCB 1242 L3 #4	2MAG36	2259105	24.05	PCB 1242 L3 #4	1MAG35	2869079	22.18
TCMX #4	2MAG37	2304423	24.01	TCMX #4	1MAG36	2843308	22.03
91FF27S48 SF 7452	2MAG38	2316954	23.96	91FF27S48 SF 7452	1MAG37	2830834	21.81
91FF27S48 PEST MS SF 7452	2MAG39	2283698	23.93	91FF27S48 PEST MS SF 7452	1MAG38	2768811	21.64
91FF27S48 PEST MSD SF 7452	2MAG40	2269922	23.91	91FF27S48 PEST MSD SF 7452	1MAG39	2745170	21.46
91FF27S48 PCB MS SF 7452	2MAG41	2301994	23.91	91FF27S48 PCB MS SF 7452	1MAG40	2729125	21.33
91FF27S48 PCB MSD SF 7452	2MAG42	2331712	23.90	91FF27S48 PCB MSD SF 7452	1MAG41	2823725	21.29
PEST A L3 #5	2MAG43	2209567	23.90	PEST A L3 #5	1MAG42	2753009	21.33
PEST B L3 #5	2MAG44	2250540	23.91	PEST B L3 #5	1MAG43	2825714	21.31
PCB 1242 L3 #5	2MAG45	2277831	23.95	PCB 1242 L3 #5	1MAG44	2867367	21.39

TCMX #5	2MAG46	2263789	23.96
ENDRIN #4	2MAG47	2259736	23.98
DDT #4	2MAG48	2278916	24.00
	SD(N-1)	58172	0.24
	SD(N)	57507	0.24
	MEAN	2309290	24.19
	MIN	2209567	23.90
	MAX	2433516	24.77
	COUNT	44	44
	2*SD(N-1)	116343	0.48
	HIGH	2425633	24.67
	LOW	2192947	23.71
	%RSD(N-1)	2.52	0.99

TCMX #5	1MAG45	2838871	21.48
ENDRIN #4	1MAG46	2920160	21.58
DDT #4	1MAG47	2873747	21.69
	SD(N-1)	139020	0.82
	SD(N)	137431	0.81
	MEAN	2939556	22.15
	MIN	2729125	20.84
	MAX	3306205	24.11
	COUNT	44	44
	2*SD(N-1)	278040	1.63
	HIGH	3217596	23.79
	LOW	2661517	20.52
	%RSD(N-1)	4.73	3.69

PRIMARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

ENDRIN AND DDT DEGRADATION

DATA SET: SF 7452 DATA SET NAME: SOHIGRO

DATE: 11/06/90 COLUMN TYPE: MIXED PHASE GC # 2

$$\text{PERCENT ENDRIN DEGRADATION} = \frac{\text{AREA OF END ALD + END KETONE}}{\text{AREA OF END ALD + END KET + ENDRIN}} \times 100$$

CALIBRATION	DATE ANALYZED	FILE NAME	AREA OF END ALD	AREA OF END KET	AREA OF ENDRIN	% DEG
INITIAL	10-28-90	2IC3	187421	115366	4354934	6.5
CONTINUING	11-01-90	2MAG26	124874	73337	4758256	4.0
CONTINUING	11-01-90	2MAG47	104543	54109	4750659	3.2

$$\text{PERCENT DDT DEGRADATION} = \frac{\text{AREA OF DDE + DDD}}{\text{AREA OF DDE + DDD + DDT}} \times 100$$

CALIBRATION	DATE ANALYZED	FILE NAME	AREA OF DDE	AREA OF DDD	AREA OF DDT	% DEG
INITIAL	10-28-90	2IC4	85316	72234	6279889	2.4
CONTINUING	11-01-90	2MAG27	61522	64890	6311308	2.0
CONTINUING	11-01-90	2MAG48	58423	60656	6326370	1.8

SECONDARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

ENDRIN AND DDT DEGRADATION

DATA SET: SF 7452 DATA SET NAME: SOHIGRO

DATE: 11/06/90 COLUMN TYPE: SINGLE PHASE GC # 2

$$\text{PERCENT ENDRIN DEGRADATION} = \frac{\text{AREA OF END ALD + END KETONE}}{\text{AREA OF END ALD + END KET + ENDRIN}}$$

CALIBRATION	DATE ANALYZED	FILE NAME	AREA OF END ALD	AREA OF END KET	AREA OF ENDRIN	% DEG
INITIAL	10-28-90	1IC2	0	114299	8145569	1.4
CONTINUING	11-01-90	1MAG25	0	44471	7675780	0.6
CONTINUING	11-01-90	1MAG46	0	93943	7632109	1.2

$$\text{PERCENT DDT DEGRADATION} = \frac{\text{AREA OF DDE + DDD}}{\text{AREA OF DDE + DDD + DDT}} \times 100$$

CALIBRATION	DATE ANALYZED	FILE NAME	AREA OF DDE	AREA OF DDD	AREA OF DDT	% DEG
INITIAL	10-28-90	1IC3	110990	42838	7743607	1.9
CONTINUING	11-01-90	1MAG26	80747	35623	7760743	1.5
CONTINUING	11-01-90	1MAG47	73875	29095	7636257	1.3

PRIMARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

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INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7452 DATE: 11/06/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, MIXED PHASE VERSION #: 128

STANDARD NAME: PESTICIDE MIX A (LEVEL 3)

COMPOUND	FILENAME 2IC9	FILENAME 2MAG22		FILENAME 2MAG34		FILENAME 2MAG43	
	INITIAL AREA	CONTINUING AREA-3	RPD	CONTINUING AREA-4	RPD	CONTINUING AREA-5	RPD
ALPHA-BHC	476349	526655	10.0	530211	10.7	519134	8.6
LINDANE	376211	361877	3.9	374949	0.3	362203	3.8
HEPTACHLOR	398913	392683	1.6	386096	3.3	389866	2.3
ALDRIN	691225	667887	3.4	654532	5.5	664325	4.0
HEPTACHLOR EPOXIDE	937695	899985	4.1	870001	7.5	881610	6.2
ENDOSULFAN I	1057210	985642	7.0	970538	8.5	967289	8.9
DIELDRIN	1035802	997965	3.7	993314	4.2	990841	4.4
ENDRIN	1090250	1173669	7.4	1187159	8.5	1183836	8.2
ENDOSULFAN II	2116980	2068418	2.3	2092671	1.2	2121176	0.2
4,4'-DDT	1780220	1735366	2.6	1753601	1.5	1758136	1.2
METHOXYCHLOR	1509192	1464377	3.0	1467507	2.8	1470859	2.6

SECONDARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

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INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7452 DATE: 11/06/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, SINGLE PHASE VERSION #: 155,156

STANDARD NAME: PESTICIDE MIX A (LEVEL 3)

COMPOUND	FILENAME 1IC8	FILENAME 1MAG21		FILENAME 1MAG33		FILENAME 1MAG42	
	INITIAL AREA	CONTINUING AREA-3	RPD	CONTINUING AREA-4	RPD	CONTINUING AREA-5	RPD
ALPHA-BHC	564206	528746	6.5	542555	3.9	531401	6.0
LINDANE	427117	391356	8.7	405454	5.2	401144	6.3
HEPTACHLOR	503100	433919	14.8	439853	13.4	461004	8.7
ALDRIN	754527	707345	6.5	728363	3.5	716369	5.2
HEPTACHLOR EPOXIDE	1044842	993446	5.0	1016559	2.7	996470	4.7
ENDOSULFAN I	1137542	1074301	5.7	1102838	3.1	1079242	5.3
DIELDRIN	1112069	1033715	7.3	1057854	5.0	1042194	6.5
ENDRIN + ENDOSULFAN II	4374359	4215893	3.7	4323851	1.2	4175057	4.7
4,4'-DDT	2011972	1896077	5.9	1927242	4.3	1959152	2.7
METHOXYCHLOR	1861975	1785603	4.2	1809337	2.9	1804631	3.1

PRIMARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

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INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7452 DATE: 11/06/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, MIXED PHASE VERSION #: 211

STANDARD NAME: PESTICIDE MIX B (LEVEL 3)

COMPOUND	FILENAME 21C14 INITIAL AREA	FILENAME 2MAG23 CONTINUING AREA-3	RPD	FILENAME 2MAG35 CONTINUING AREA-4	RPD	FILENAME 2MAG44 CONTINUING AREA-5	RPD
BETA-BHC	571832	558463	2.4	558372	2.4	547273	4.4
DELTA-BHC	733336	722499	1.5	732399	0.1	697456	5.0
GAMMA-CHLORDANE	954564	954898	0.0	956091	0.2	937724	1.8
ALPHA-CHLORDANE	1030921	1015404	1.5	1011014	1.9	1000359	3.0
4,4'-DDE	945276	900016	4.9	895213	5.4	889833	6.0
4,4'-DDD	1438980	1360437	5.6	1377830	4.3	1359336	5.7
ENDRIN ALDEHYDE	1430376	1362394	4.9	1338212	6.7	1362862	4.8
ENDOSULFAN SULFATE	2627971	2508522	4.7	2521299	4.1	2551826	2.9
ENDRIN KETONE	3042351	2922194	4.0	2928436	3.8	2925003	3.9

SECONDARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

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INITIAL AND CONTINUING CALIBRATION FORM

DATA SET :SF 7452 DATE :11/06/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, SINGLE PHASE VERSION #: 155,156, 160

STANDARD NAME: PESTICIDE MIX B (LEVEL 3)

COMPOUND	FILENAME 1IC13	FILENAME 1MAG22		FILENAME 1MAG34		FILENAME 1MAG43	
	INITIAL AREA	CONTINUING AREA-3	RPD	CONTINUING AREA-4	RPD	CONTINUING AREA-5	RPD
BETA-BHC	717116	682005	5.0	696815	2.9	668728	7.0
DELTA-BHC	796219	767137	3.7	784134	1.5	779393	2.1
GAMMA-CHLORDANE	1141704	1083472	5.2	1098624	3.8	1078783	5.7
ALPHA-CHLORDANE	1194883	1128998	5.7	1156798	3.2	1127120	5.8
4,4'-DDE	1006633	933853	7.5	961724	4.6	944501	6.4
4,4'-DDD + ENDRIN ALDEHYDE	3381665	3213161	5.1	3246946	4.1	3191787	5.8
ENDOSULFAN SULFATE	2745712	2588653	5.9	2611891	5.0	2636453	4.1
ENDRIN KETONE	3418346	3213347	6.2	3252266	5.0	3273849	4.3

PRIMARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

****

INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7452 DATE: 11/09/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, MIXED PHASE VERSION #: 209,210

STANDARD NAME: AROCLOR 1242 (LEVEL 3)

COMPOUND	FILENAME 2IC19 INITIAL AREA	FILENAME 2MAG24 CONTINUING AREA-3	RPD	FILENAME 2MAG36 CONTINUING AREA-4	RPD	FILENAME 2MAG45 CONTINUING AREA-5	RPD
1242-1	362140	335048	7.8	336922	7.2	337403	7.1
1242-2	678541	626607	8.0	628031	7.7	628810	7.6
1242-3	1205204	1104265	8.7	1106233	8.6	1109029	8.3
1242-4	567728	495464	13.6	523651	8.1	528848	7.1
1242-5	932594	666765	* 33.2	839960	10.5	845423	9.8

* Baseline drawn incorrectly causing RPD to be higher than true value.

SECONDARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

****

INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7452 DATE: 11/09/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, SINGLE PHASE VERSION #: 173,174,175

STANDARD NAME: AROCLOR 1242 (LEVEL 3)

COMPOUND	FILENAME 1IC18	FILENAME 1MAG23		FILENAME 1MAG35		FILENAME 1MAG44	
	INITIAL AREA	CONTINUING AREA-3	RPD	CONTINUING AREA-4	RPD	CONTINUING AREA-5	RPD
1242-1	561399	497975	12.0	486657	14.3	468525	18.0
1242-2	924533	829303	10.9	817749	12.3	783773	16.5
1242-3	591498	520980	12.7	518434	13.2	511232	14.6
1242-4	1855106	1690555	9.3	1640492	12.3	1593403	15.2
1242-5	1354666	1221619	10.3	1203528	11.8	1170733	14.6

PRIMARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

****

INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7452 DATE: 11/06/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, MIXED PHASE VERSION #: 91

STANDARD NAME: TCMX 0.009 UG/ML

COMPOUND	FILENAME 2IC5	FILENAME 2MAG25		FILENAME 2MAG37		FILENAME 2MAG46	
	INITIAL AREA	CONTINUING AREA-3	RPD	CONTINUING AREA-4	RPD	CONTINUING AREA-5	RPD
TCMX	792169	799505	0.9	797119	0.6	793751	0.2

SECONDARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

****

INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7452 DATE: 11/06/90

GC#/COLUMN TYPE: 2/PACKED COLUMN, SINGLE PHASE VERSION #: 132,134.

STANDARD NAME: TCMX 0.009 UG/ML

COMPOUND	FILENAME 1IC4	FILENAME 1MAG24		FILENAME 1MAG36		FILENAME 1MAG45	
	INITIAL AREA	CONTINUING AREA-3	RPD	CONTINUING AREA-4	RPD	CONTINUING AREA-5	RPD
TCMX	1048800	1039117	0.9	1030881	1.7	1011325	3.6

PRIMARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CENTRAL REGIONAL LABORATORY, REGION V
AQC
PACKED COLUMN, MIXED PHASE

DATASET: SF 7452 DATE: 11/09/90
SAMPLE: 91FF27S48

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKE RESULT	SPIKE DUP RESULT	% RPD	SPIKE %REC.	SPIKE DUP %REC
LINDANE	0.000	0.060	0.054	0.054	0.6	90	90
HEPTACHLOR	0.000	0.060	0.052	0.049	5.8	86	81
ALDRIN	0.000	0.100	0.088	0.085	2.9	88	85
ENDOSULFAN I	0.000	0.120	0.096	0.096	0.4	80	80
DIELDRIN	0.000	0.120	0.131	0.129	1.0	109	108
ENDRIN	0.000	0.220	0.240	0.261	8.5	109	119
4,4'-DDT	0.000	0.300	0.299	0.294	1.4	100	98
METHOXYCHLOR	0.000	0.350	* 1.889	* 1.945	2.9	* 540	* 556
AROCLOR 1242	0.00	3.00	3.17	3.35	5.6	106	112

* These values reflect a large, co-eluting contaminant and are invalid.

SECONDARY COLUMN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CENTRAL REGIONAL LABORATORY, REGION V
AQC
PACKED COLUMN, SINGLE PHASE

DATASET: SF 7452 DATE: 11/06/90
SAMPLE: 91FF27S48

COMPOUND	SAMPLE RESULT	SPIKE ADDED	SPIKE RESULT	SPIKE DUP RESULT	% RPD	SPIKE %REC.	SPIKE DUP %REC
LINDANE	0.000	0.060	0.055	0.055	1.5	92	91
HEPTACHLOR	0.000	0.060	0.055	0.053	2.4	91	89
ALDRIN	0.000	0.100	0.090	0.087	3.6	90	87
ENDOSULFAN I	0.000	0.120	0.125	0.118	5.6	104	98
DIELDRIN	0.000	0.120	0.119	0.106	11.7	100	89
ENDRIN + ENDOSULFAN II	0.000	0.220	0.223	0.168	28.0	101	76
4,4'-DDT	0.000	0.300	0.413	0.343	18.3	138	114
METHOXYCHLOR	0.000	0.350	0.354	0.341	3.7	101	98
AROCLOR 1242	0.00	3.00	2.90	3.19	9.6	97	106

~~SECONDARY COLUMN~~
SF 11/7/90

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION V CENTRAL REGIONAL LABORATORY - CHICAGO, IL

TCMX SURROGATE RECOVERY

DATA SET NO.: SF 7452 DATE: 11/06/90

SAMPLE NAME	AMOUNT ADDED	QUANTITATION COLUMN AMOUNT FOUND	QUANTITATION COLUMN PERCENT RECOVERY	CONFIRMATION COLUMN AMOUNT FOUND	CONFIRMATION COLUMN PERCENT RECOVERY
SF 7452 METHOD BLANK	0.090	0.068	75.6	0.065	71.8
SF 7452 91FF03R57	0.090	0.061	67.2	0.065	72.7
SF 7452 91FF27S49	0.090	0.068	75.3	0.065	72.3
SF 7452 91FF27D49	0.090	0.069	76.7	0.066	72.8
SF 7452 91FF27S50	0.090	0.065	71.8	0.060	66.6
SF 7452 91FF27S48	0.090	0.077	85.9	0.074	82.6
SF 7452 91FF27S48 PEST MS	0.090	0.072	79.6	0.075	83.4
SF 7452 91FF27S48 PEST MSD	0.090	0.071	78.9	0.066	72.9
SF 7452 91FF27S48 PCB MS	0.090	0.068	75.0	0.092	102.3
SF 7452 91FF27S48 PCB MSD	0.090	0.078	86.8	0.105	116.3

PART II

Endrin & DDT Degradation Reports & Chromatograms

A. Primary
B. Secondary

2

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 08:42:29 Version 4.1 **********

* Sample Name: ENDRIN-1 Data File: W:2IC3 *
* Date: 10-28-1990 16:01:10 Method: W:2ENDBDR 10-30-1990 14:12:43 # 34 *
* Interface: 0 Cycle#: 3 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	11.12	ENDRIN	1.8877	93.4992%	4354934	165770	26.3	1	6	6	.3912	4.3347E-07
4	17.43	END ALDEHYDE	0.0812	4.0239%	187421	3864	48.5	1	6	6	0	4.3347E-07
6	24.27	MIREX	1.0000	0.0000%	2306963	38945	59.2	1	6	6	0	4.3347E-07
7	28.62	END KETONE	0.0500	2.4769%	115366	1896	60.8	1	6	6	-.4070	4.3347E-07

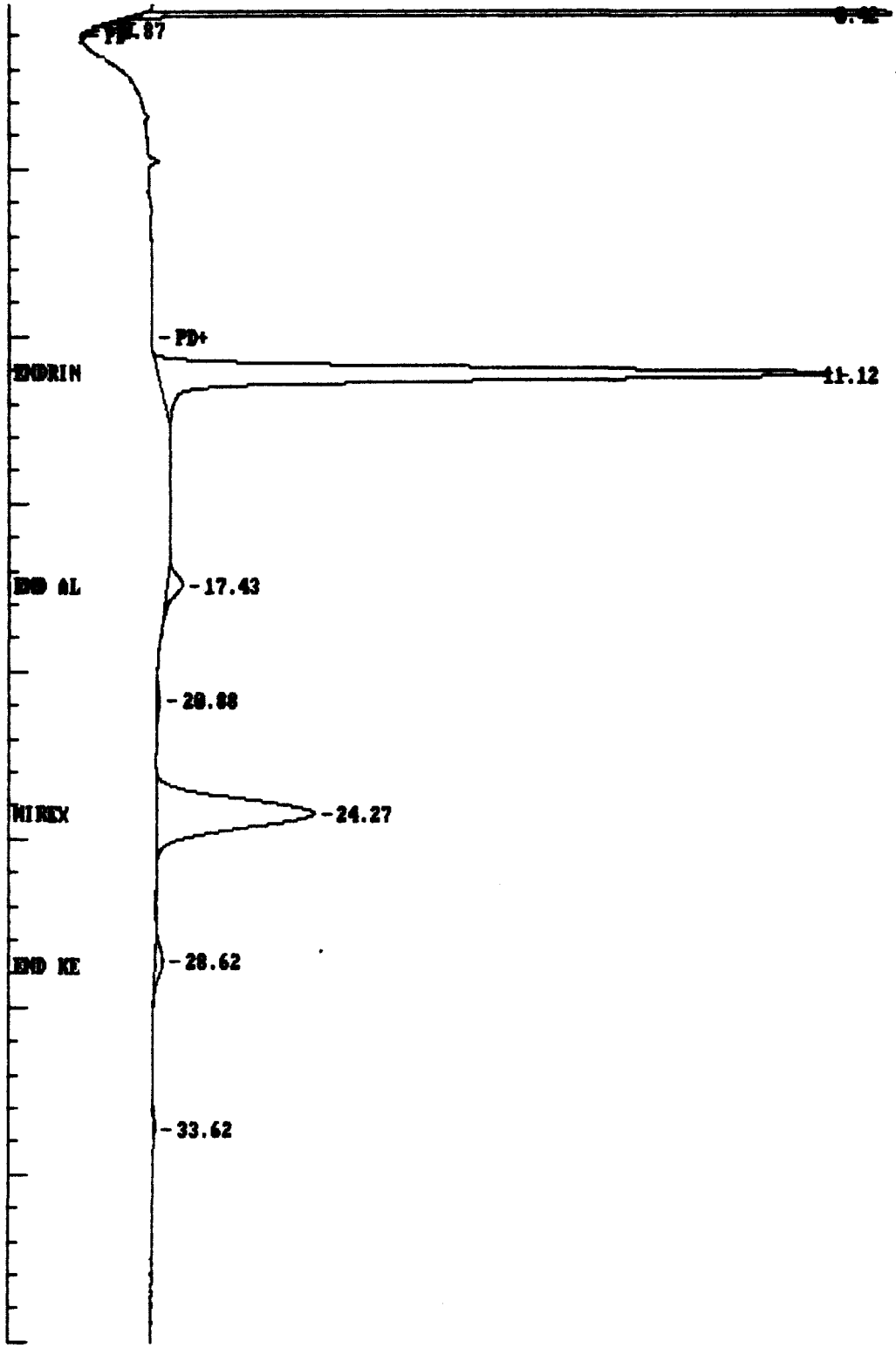
TOTAL AMOUNT = 2.0190

11/6/90

KM
11/5/90

PRIMARY COLUMN

ile = W:2IC3.PTS Printed on 11-02-1990 at 08:42:42
time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Range: 200 millivolts



PRIMARY COLUMN

INTERNAL STANDARD TABLE

********** 11-02-1990 08:49:31 Version 4.1 **********

Sample Name: ENDRIN #3 Data File: W:2MAG26

* Date: 11-01-1990 04:55:55 Method: W:2ENDBDR 10-30-1990 14:12:43 # 34 *
* Interface: 0 Cycle#: 26 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PRIMARY COLUMN~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

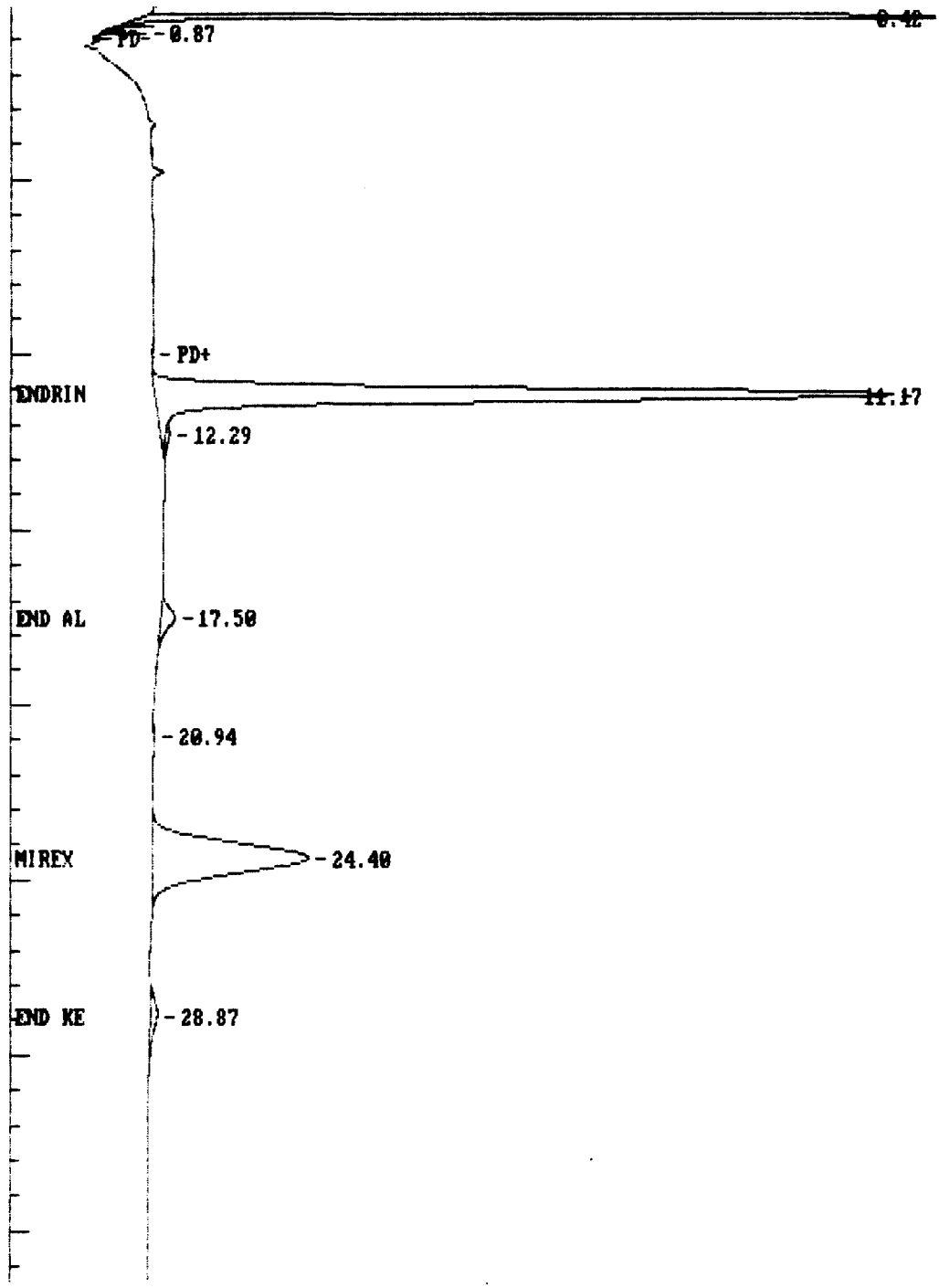
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ UM 11/5/90	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	11.09	ENDRIN	2.1046	96.0010%	4758256	182495	26.1	3	8	8	.2968	4.4230E-07
6	17.37	END ALDEHYDE	0.0552	2.5194%	124874	2728	45.8	1	8	8	-.1560	4.4230E-07
8	24.21	MIREX	1.0000	0.0000%	2260918	38395	58.9	1	8	8	0	4.4230E-07
9	28.62	END KETONE	0.0324	1.4796%	73337	1258	58.3	1	8	8	-.2010	4.4230E-07

TOTAL AMOUNT = 2.1922

KM
11/5/90

PRIMARY COLUMN

ile = W:2MASC.PTS Printed on 11-02-1990 at 08:48:07
time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Range: 200 millivolts



PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 11:05:39 Version 4.1 **********

* Sample Name: ENDRIN #4 Data File: W:2MAG47 *
* Date: 11-01-1990 20:21:15 Method: W:2ENDBDR 10-30-1990 14:12:43 # 34 *
* Interface: 0 Cycle#: 47 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

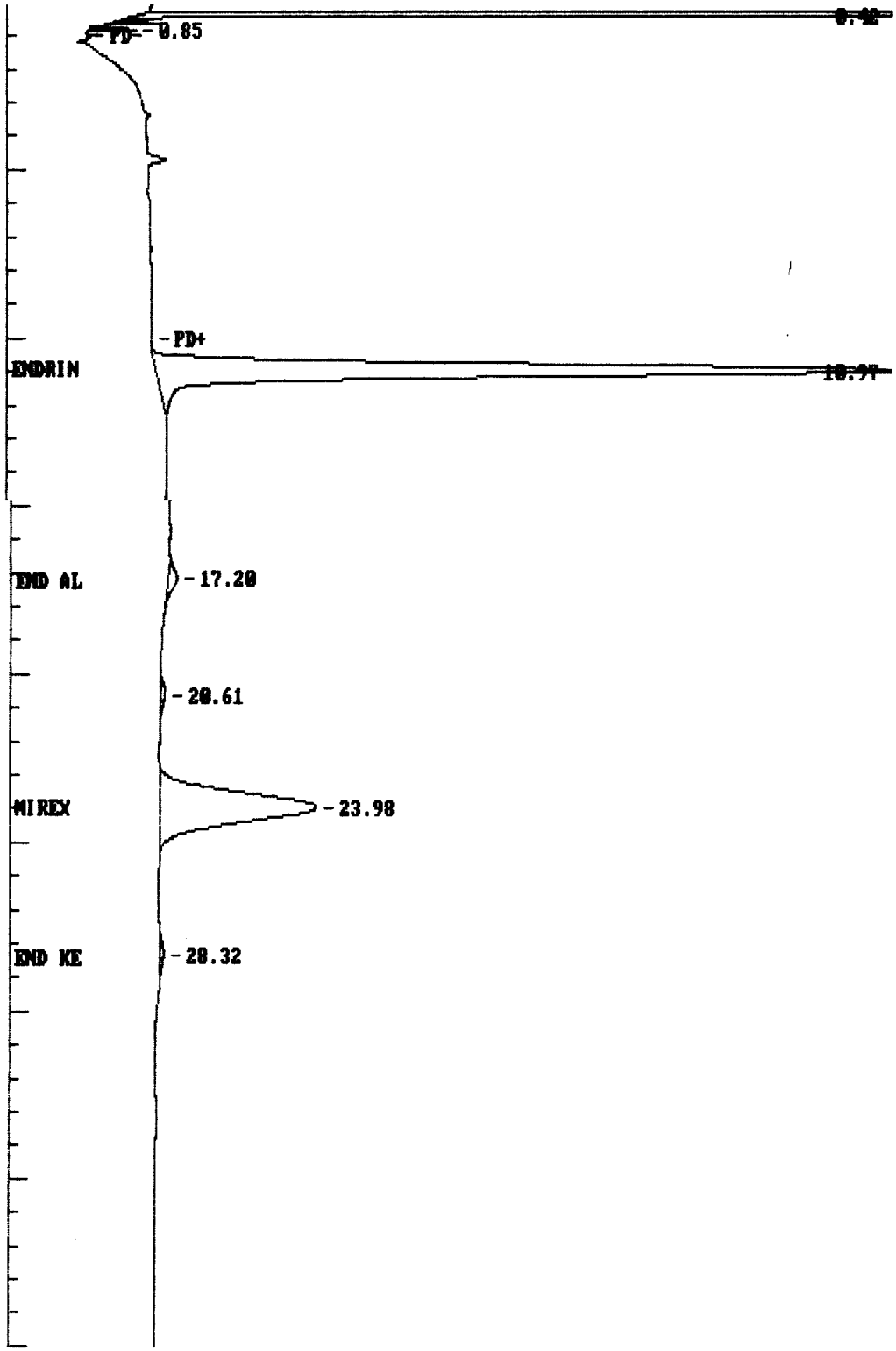
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	10.97	ENDRIN	2.1023	96.7683%	4750659	183584	25.9	1	6	6	.2070	4.4253E-07
4	17.20	END ALDEHYDE	0.0463	2.1295%	104543	2362	44.3	1	6	6	-.1520	4.4253E-07
6	23.98	MIREX	1.0000	0.0000%	2259736	38399	58.8	1	6	6	0	4.4253E-07
7	28.32	END KETONE	0.0239	1.1022%	54109	1008	53.7	1	6	6	-.2863	4.4253E-07

TOTAL AMOUNT = 2.1725

SB 11/26/90

PRIMARY COLUMN

Data File = W:2MAG47.PTS Printed on 11-02-1990 at 11:05:53
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



PRIMARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-02-1990 08:39:30 Version 4.1 **********************
* Sample Name: DDT-1                          Data File: W:2IC4          *
* Date: 10-28-1990 16:04:23 Method: W:2DDTBDR  10-30-1990 14:17:22  #  27 *
* Interface: 0   Cycle#:  4    Operator DKC Channel#: 1    Vial#: N.A.   *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100           *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS      *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN           *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                  *
*            Detector 0: ECD ~~QUANT~~ CONF       Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: PRIMARY COLUMN                  ~~PERFORMANCE EVA~~  *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:   40.00
Area reject:        0                      One sample per   1.002 sec.
Amount injected:        1.00               Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~ug/ml~~	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	8.67	DDE	0.0372	1.3253%	85316	4105	20.8	1	8	8	.3319	4.3603E-07
5	13.26	DDD	0.0315	1.1221%	72234	2270	31.8	2	8	8	.5091	4.3603E-07
6	15.95	DDT	2.7382	97.5526%	6279889	167099	37.6	1	8	8	.3109	4.3603E-07
8	24.15	MIREX	1.0000	0.0000%	2293422	38745	59.2	1	8	8	0	4.3603E-07

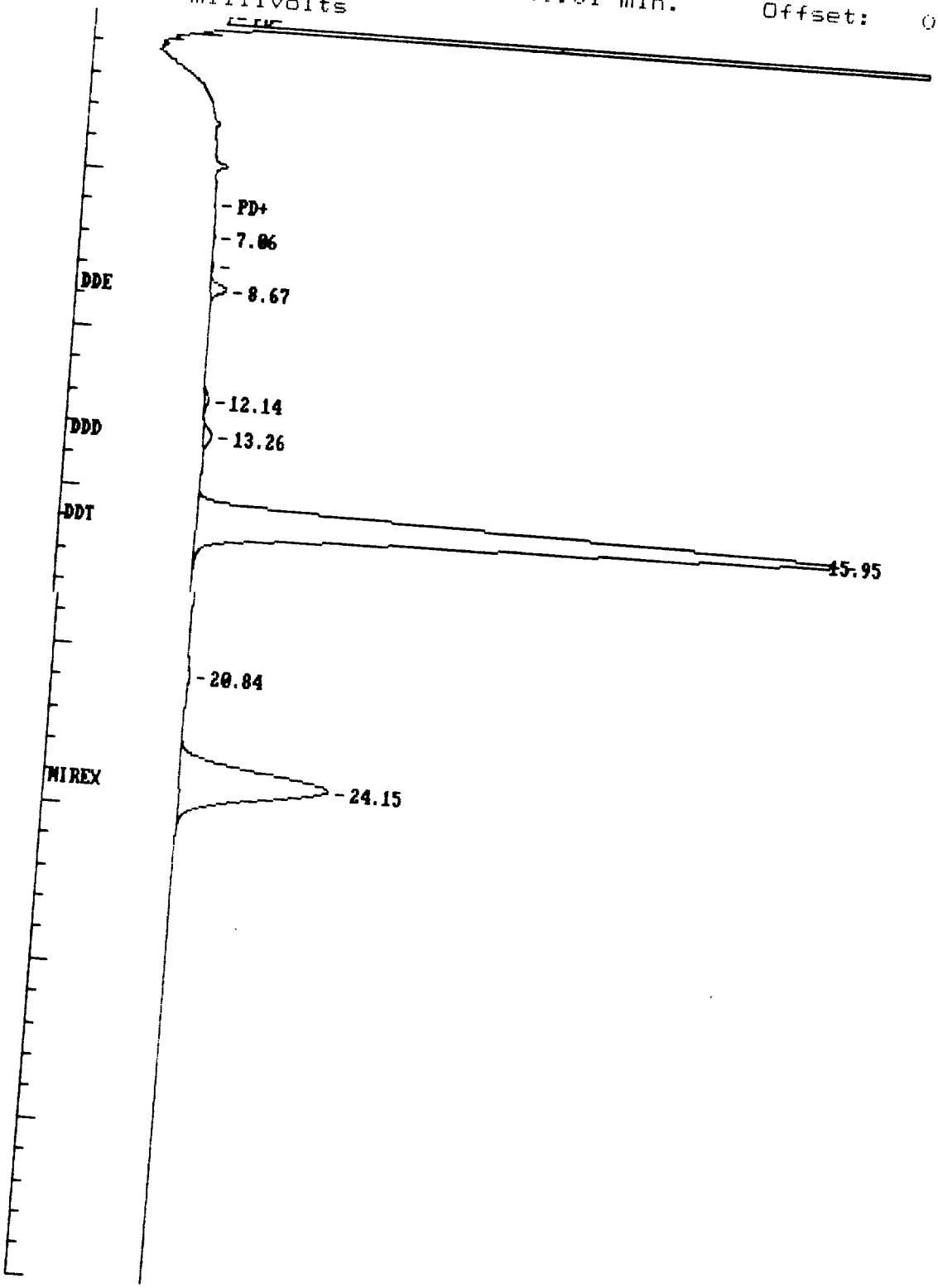
TOTAL AMOUNT = 2.8069

11/6/90

VCM
11/5/90

PRIMARY COLUMN

ata File = W:2IC4.PTS Printed on 11-02-1990 at 08:39:44
Start time: 0.00 min. Stop time: 40.01 min.
Full Range: 200 millivolts Offset: 0 mv.



PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 08:36:41 Version 4.1 **********

* Sample Name: DDT #3 Data File: W:2MAG27 *
* Date: 11-01-1990 05:39:59 Method: W:2DDTBDR 10-30-1990 14:17:22 # 27 *
* Interface: 0 Cycle#: 27 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: PRIMARY COLUMN PRIMARY COLUMN *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

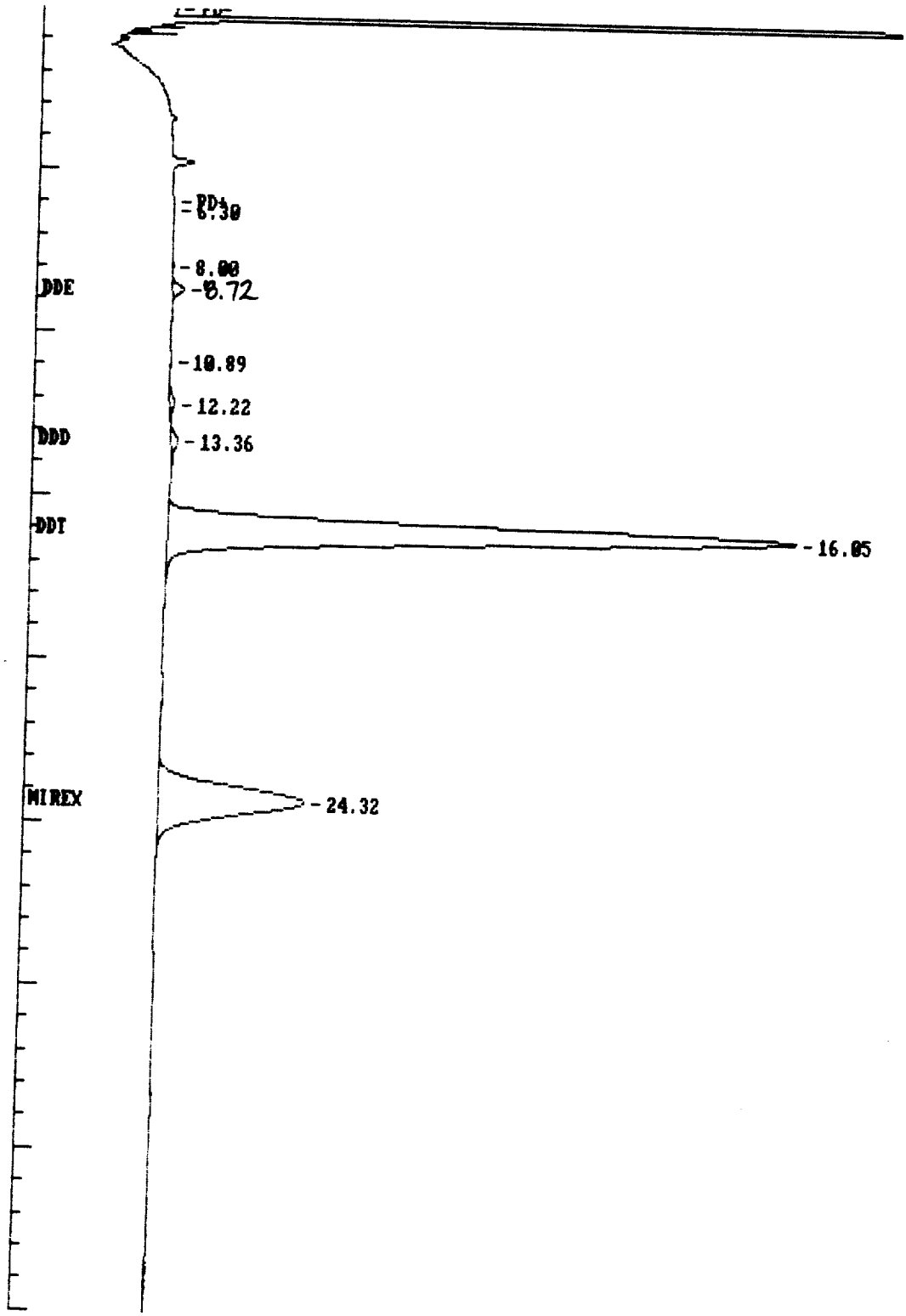
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~uG/mL~~ ug/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	8.68	DDE	0.0269	0.9557%	61522	3026	20.3	1	9	9	.1788	4.3732E-07
6	13.31	DDD	0.0284	1.0080%	64890	1895	34.2	2	9	9	.5412	4.3732E-07
7	16.00	DDT	2.7600	98.0364%	631130B	168352	37.5	1	9	9	.2793	4.3732E-07
9	24.23	MIREX	1.0000	0.0000%	2286664	38729	59.0	1	9	9	0	4.3732E-07

TOTAL AMOUNT = 2.8153

VCM
11/5/90

PRIMARY COLUMN

Data File = W:2MAG3.PTS Printed on 11-02-1990 at 08:35:41
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/5/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 11:07:27 Version 4.1 **********

* Sample Name: DDT # 4 Data File: W:2MAG48 *
* Date: 11-01-1990 21:05:02 Method: W:2DDTBDR 10-30-1990 14:17:22 # 27 *
* Interface: 0 Cycle#: 48 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: PRIMARY COLUMN ~~PERFORMANCE EVA~~ *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

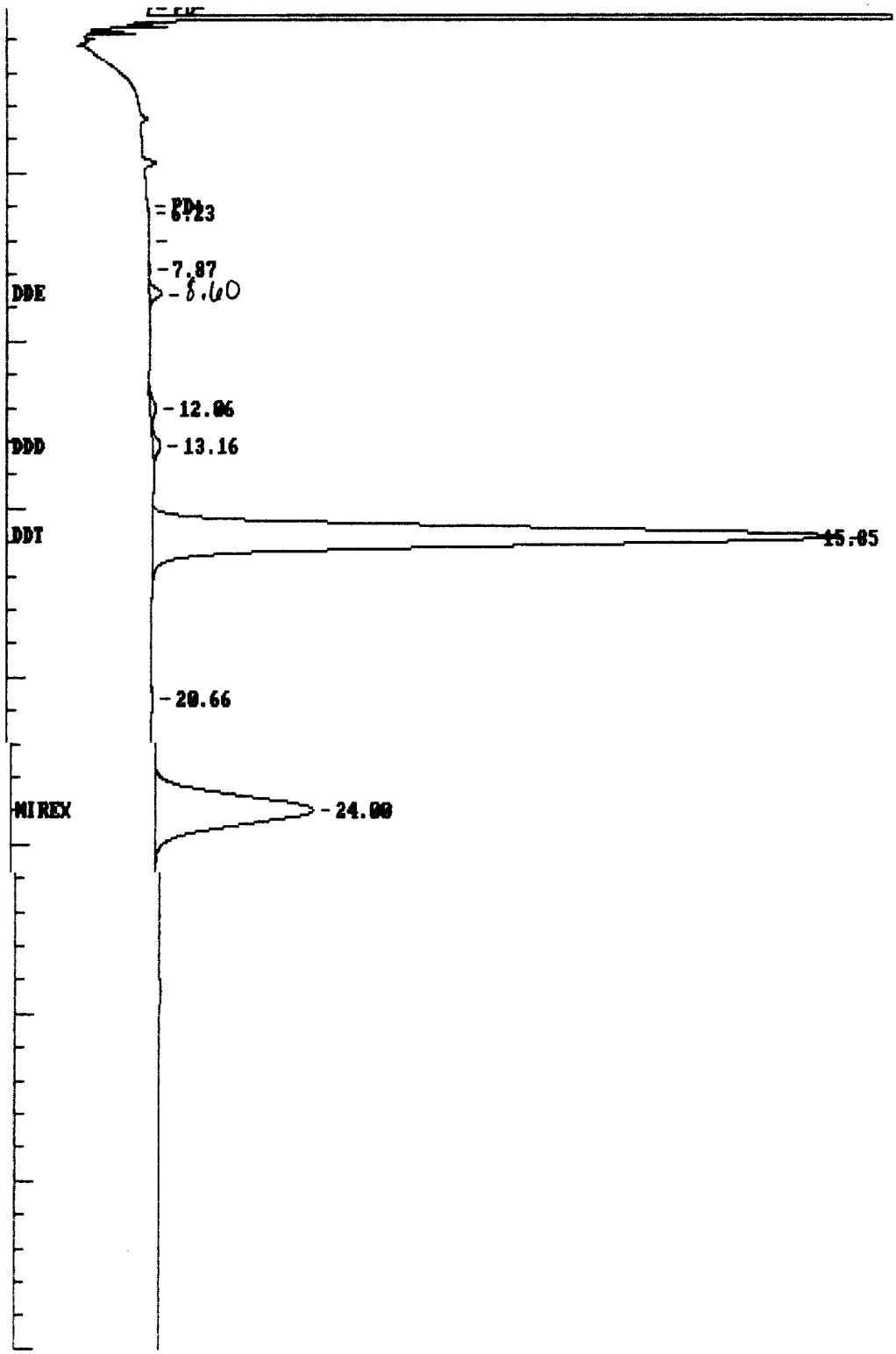
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	8.60	DDE	0.0256	0.9064%	58423	2865	20.4	1	9	9	.1822	4.3881E-07
6	13.16	DDD	0.0266	0.9411%	60656	1877	32.3	2	9	9	.3743	4.3881E-07
7	15.85	DDT	2.7760	98.1525%	6326370	169201	37.4	1	9	9	.3050	4.3881E-07
9	24.00	MIREX	1.0000	0.0000%	2278916	38703	58.9	1	9	9	0	4.3881E-07

TOTAL AMOUNT = 2.8283

8b
11/26/90

PRIMARY COLUMN

Data File = W:2MAG48.PTS Printed on 11-02-1990 at 11:07:41
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 09:11:03 Version 4.1 **********

* Sample Name: ENDRIN-1 Data File: W:1IC2 *
* Date: 10-28-1990 14:09:33 Method: W:1ENDBD 11-02-1990 09:10:02 # 30 *
* Interface: 0 Cycle#: 2 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
1	8.23	ENDRIN	2.6920	98.6162%	8145569	299743	27.2	3	4	4	-.5389	3.3048E-07
3	13.69	END KETONE	0.0378	1.3838%	114299	2594	44.1	4	4	4	-2.431	3.3048E-07
4	22.14	MIREX	1.0000	0.0000%	3025859	47110	64.2	1	4	4	0	3.3048E-07

TOTAL AMOUNT = 2.7298

PEAKS NOT FOUND IN THIS RUN

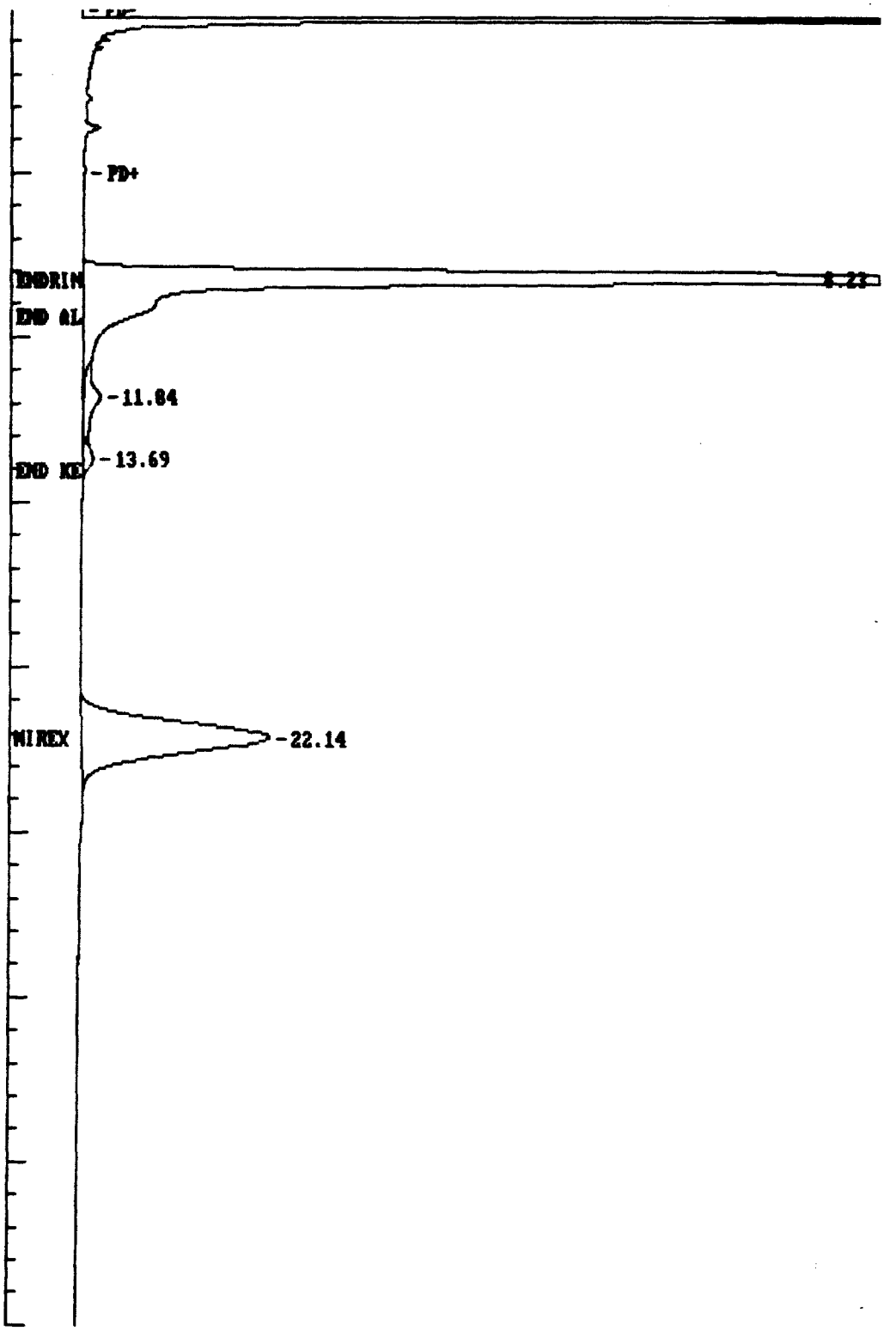
NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
END ALDEHYDE	9.38	MIREX

SB 11/6/90

W
11/5/90

SECONDARY COLUMN

ta File = W:1IC2.FTS Printed on 11-02-1990 at 09:11:17
tart time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 09:02:56 Version 4.1 **********

* Sample Name: ENDRIN #3 Data File: W:1MAG25 *
* Date: 11-01-1990 04:11:50 Method: W:1ENDBD 11-02-1990 09:00:25 # 29 *
* Interface: 0 Cycle#: 25 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ ng/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
1	8.38	ENDRIN	2.6589	99.4240%	7675780	285166	26.9	3	4	4	-.8175	3.4641E-07
3	13.94	END KETONE	0.0154	0.5760%	44471	1305	34.1	1	4	4	-2.700	3.4641E-07
4	22.61	MIREX	1.0000	0.0000%	2886781	44576	64.8	1	4	4	0	3.4641E-07

TOTAL AMOUNT = 2.6743

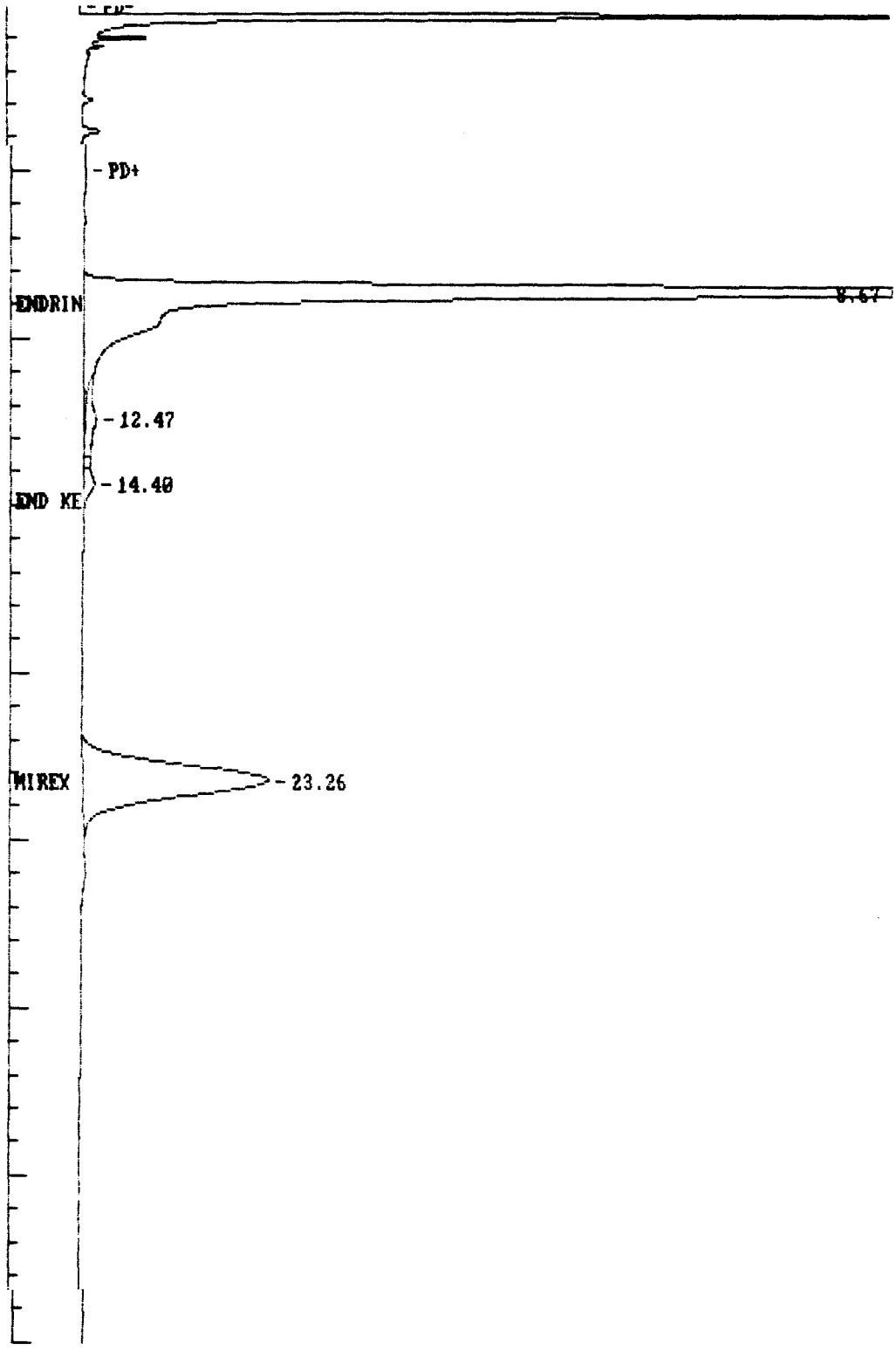
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
END ALDEHYDE	9.58	MIREX

KM
11/5/90

SECONDARY COLUMN

File = W:1MA61.FTS Printed on 11-02-1990 at 09:22:50
t time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
l Range: 200 millivolts



SECONDARY COLUMN

```
*****   INTERNAL  STANDARD  TABLE   *****
******************** 11-02-1990 12:11:51 Version 4.1 *********************
* Sample Name: ENDRIN # 4                          Data File: W:1MAG46      *
* Date: 11-01-1990 19:37:10 Method: W:1ENDBD  11-02-1990 09:22:01  #  32  *
* Interface: 0   Cycle#:  46   Operator DKC Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*           Detector 0: ECD ~~QUANT~~ CONF        Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: ~~PERFORMANCE EVALUATION~~              LPT1:        *  *
*************************************************************************
Starting Delay:    0.00                      Ending retention time:   40.00
Area reject:         0                       One sample per   1.002 sec.
Amount injected:        1.00                 Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/L~~	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
1	8.00	ENDRIN	2.6136	98.7841%	7632109	284711	26.8	3	4	4	-3.786	3.4245E-07
3	13.29	END KETONE	0.0322	1.2159%	93943	2084	45.1	4	4	4	-3.734	3.4245E-07
4	21.58	MIREX	1.0000	0.0000%	2920160	45041	64.8	3	4	4	0	3.4245E-07

TOTAL AMOUNT = 2.6458

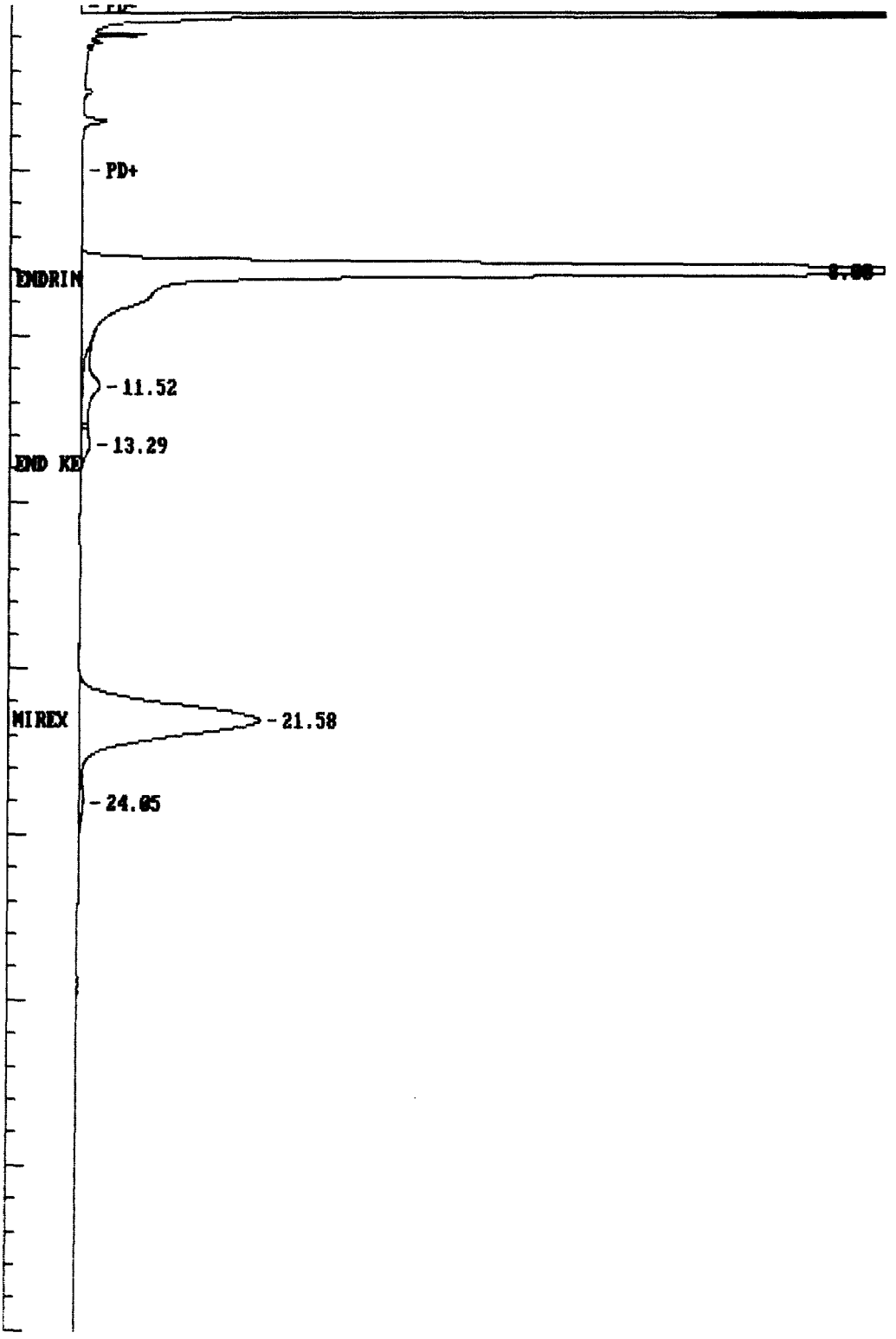
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
END ALDEHYDE	8.53	MIREX

DKC
11/9/90

SECONDARY COLUMN

Data File = W:1MAG46.PTS Printed on 11-02-1990 at 12:12:05
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

Output redirected to LPT1:

***** INTERNAL STANDARD TABLE *****

********** 11-01-1990 16:17:44 Version 4.1 **********

* Sample Name: DDT-1 Data File: W:1IC3 *
* Date: 10-28-1990 16:01:11 Method: W:1DDTBD 10-30-1990 13:13:47 # 20 *
* Interface: 0 Cycle#: 3 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	7.25	DDE	0.0372	1.4054%	110990	5273	21.0	1	6	6	-1.455	3.3529E-07
3	9.15	DDD	0.0144	0.5424%	42838	1686	25.4	2	6	6	-1.295	3.3529E-07
5	11.86	DDT	2.5964	98.0522%	7743607	234013	33.1	1	6	6	.5448	3.3529E-07
6	21.88	MIREX	1.0000	0.0000%	2982479	46725	63.8	1	6	6	0	3.3529E-07

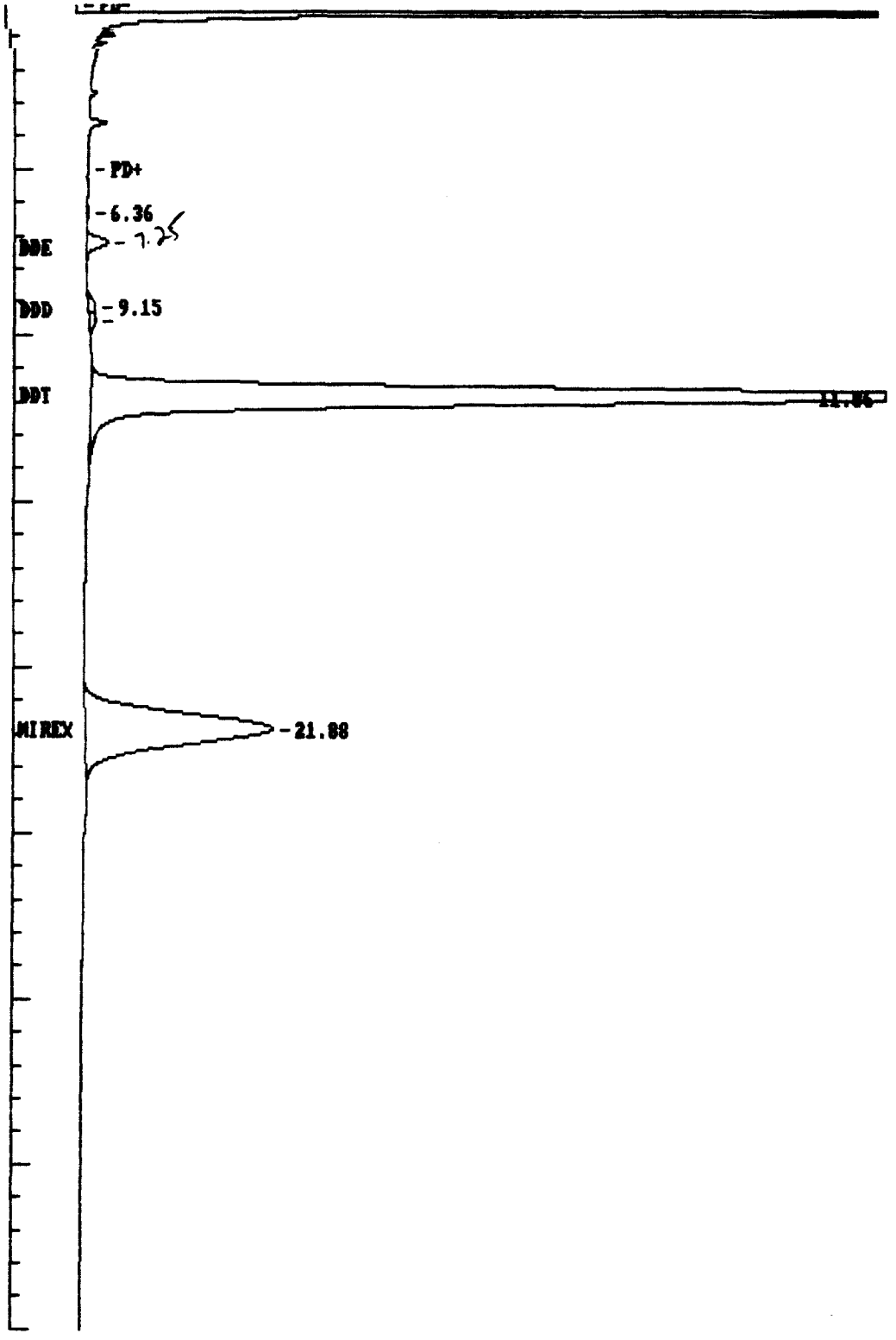
TOTAL AMOUNT = 2.6479

UM
11/5/90

SO 11/6/90

SECONDARY COLUMN

ata File = W:1IC3.PTS Printed on 11-01-1990 at 16:17:57
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-01-1990 16:15:42 Version 4.1 **********

* Sample Name: DDT #3 Data File: W:1MAG26 *

* Date: 11-01-1990 04:55:56 Method: W:1DDTBD 10-30-1990 13:13:47 # 20 *

[redacted]

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *

* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Internal Standard Amount: 1

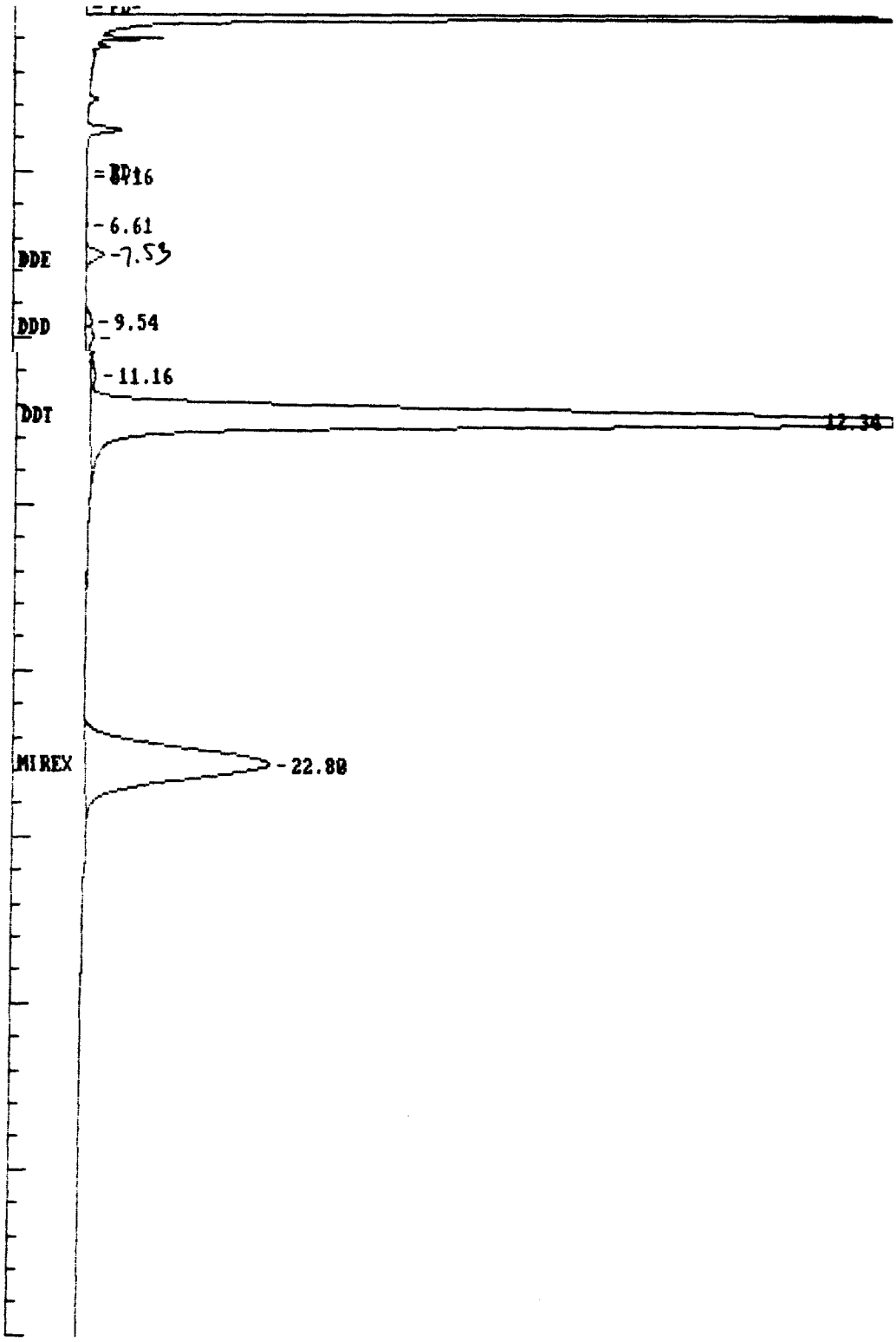
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ~~UG/ML~~ UM 11/5/90	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	7.46	DDE	0.0277	1.0251%	80747	3752	21.5	1	7	7	-2.018	3.4279E-07
3	9.45	DDD	0.0122	0.4522%	35623	1438	24.8	2	7	7	-1.583	3.4279E-07
6	12.26	DDT	2.6603	98.5227%	7760743	229607	33.8	2	7	7	.3434	3.4279E-07
7	22.66	MIREX	1.0000	0.0000%	2917201	44843	65.1	1	7	7	0	3.4279E-07

TOTAL AMOUNT = 2.7002

SECONDARY COLUMN

ta File = W:1MAG2.FTS Printed on 11-01-1990 at 16:14:50
tart time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



WM
11/5/90

SECONDARY COLUMN

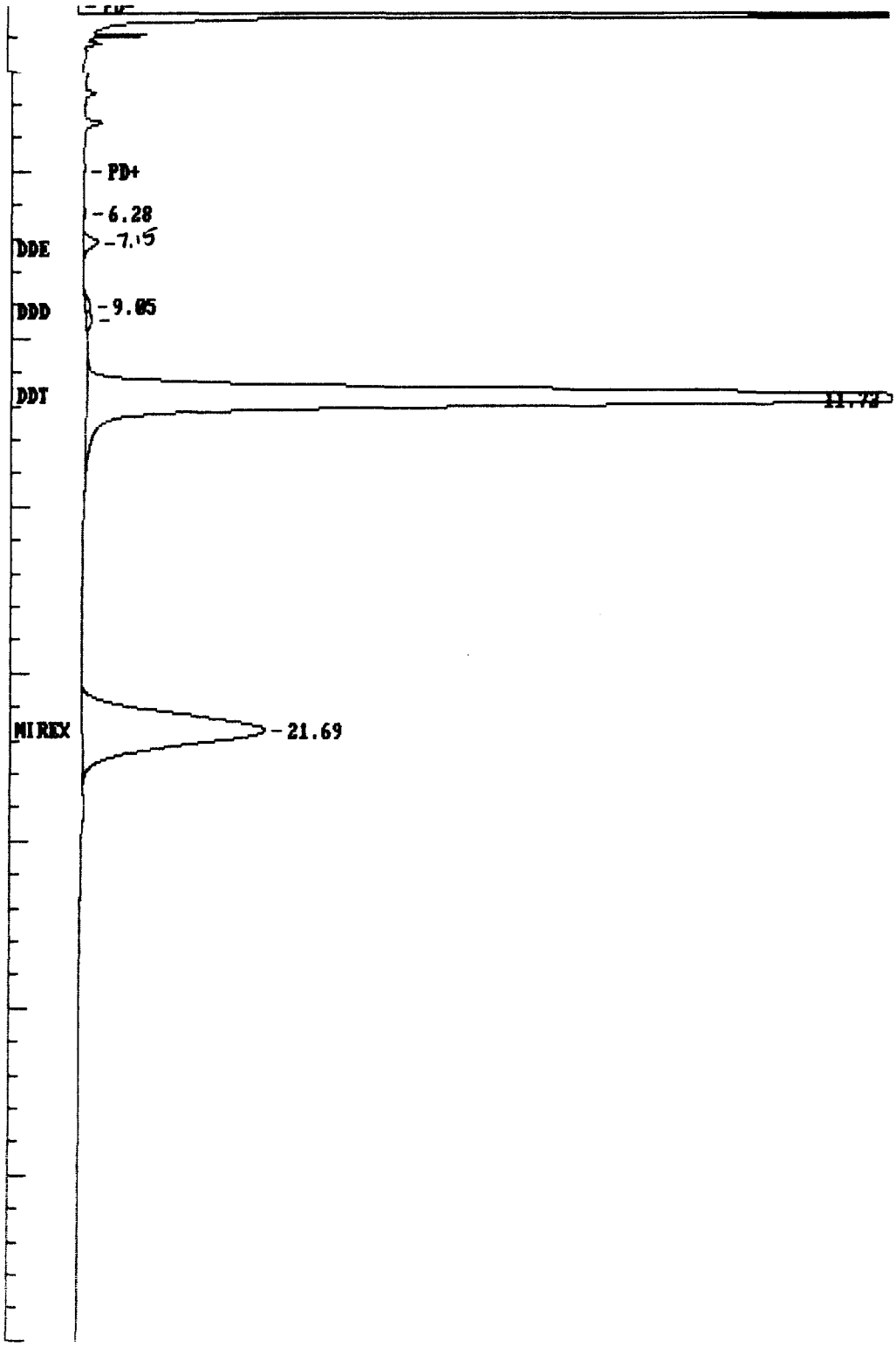
```
*****   INTERNAL  STANDARD  TABLE   *****
******************** 11-02-1990 12:13:54 Version 4.1 **********************
* Sample Name: DDT # 4                          Data File: W:1MAG47        *
* Date: 11-01-1990 20:21:17 Method: W:1DDTBD  10-30-1990 13:13:47  #  20  *
* Interface: 0   Cycle#:  47   Operator DKC Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*           Detector 0: ECD ~~QUANT~~CONF        Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: ~~PERFORMANCE EVALUATION~~              LPT1:        *  *
*************************************************************************
Starting Delay:    0.00                      Ending retention time:    40.00
Area reject:         0                       One sample per   1.002 sec.
Amount injected:        1.00                 Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	7.15	DDE	0.0257	0.9546%	73875	3525	21.0	1	6	6	-1.994	3.4798E-07
3	9.05	DDD	0.0101	0.3759%	29095	1274	22.8	2	6	6	-1.549	3.4798E-07
5	11.72	DDT	2.6572	98.6695%	7636257	229959	33.2	1	6	6	.2537	3.4798E-07
6	21.69	MIREX	1.0000	0.0000%	2873747	45083	63.7	1	6	6	0	3.4798E-07

TOTAL AMOUNT = 2.6931

SECONDARY COLUMN

Data File = W:1MAG47.PTS Printed on 11-02-1990 at 12:14:07
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

PART III

Calibration Reports/Chromatograms and Calibration Curves

A. Pesticide Mix A
(primary & secondary)

B. Pesticide Mix B
(primary & secondary)

C. Aroclor 1242
(primary & secondary)

D. TCMX (primary & secondary)

3

PRIMARY COLUMN

Output redirected to LPT1:

***** EXTERNAL STANDARD TABLE *****

********** 10-31-1990 15:18:59 Version 4.1 **********

* Sample Name: PEST A L1 Data File: W:2IC7 *

* Date: 10-28-1990 17:56:23 Method: W:2PESTAR 10-31-1990 14:14:23 # 128*

* Interface: 0 Cycle#: 7 Operator DKC Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *

* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.000000

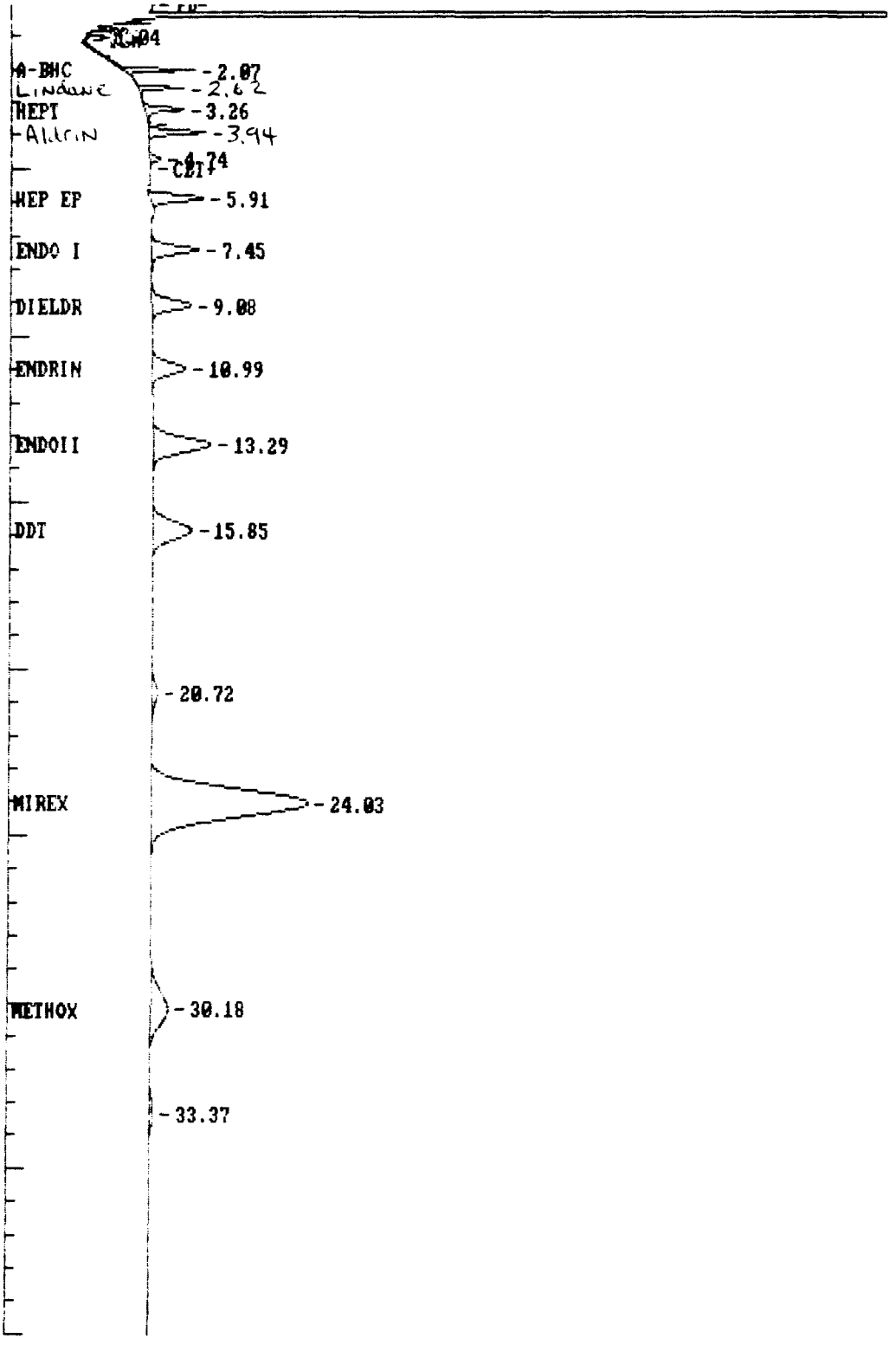
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	2.07	A-BHC	0.0014	0.1190%	107634	17452	6.2	1	16	.3474	1.3173E-08
4	2.62	LINDANE	0.0011	0.0895%	70188	11310	6.2	1	16	.3474	1.5183E-08
5	3.26	HEPT	0.0010	0.0825%	78871	9432	8.4	1	16	-.1645	1.2454E-08
7	3.94	ALDRIN	0.0022	0.1822%	135804	14086	9.6	1	16	0	1.5983E-08
9	5.91	HEP EPOX	0.0023	0.1956%	179001	13119	13.6	1	16	0	1.3015E-08
10	7.45	ENDO I	0.0028	0.2392%	212988	11691	18.2	1	16	.1229	1.3378E-08
11	9.08	DIELDRIN	0.0032	0.2653%	212914	9696	22.0	1	16	0	1.4845E-08
12	10.99	ENDRIN	0.0057	0.4773%	209186	8366	25.0	1	16	-.1079	2.7177E-08
13	13.29	ENDOII	0.0069	0.5803%	438389	14113	31.1	1	16	0	1.5769E-08
14	15.85	DDT	0.0072	0.6014%	351603	9581	36.7	1	16	0	2.0376E-08
16	24.03	MIREX	~~1.1501~~	96.5511%	2283672	38711	59.0	1	16	0	5.0363E-07
17	30.18	METHOXYCHLOR	0.0073	0.6166%	305996	4257	71.9	1	16	0	2.4002E-08

TOTAL AMOUNT = 1.1912

DKC
11/1/90

PRIMARY COLUMN

Areas, times, and heights stored in: W:2IC7.ATB
Data File = W:2IC7.PTS Printed on 10-31-1990 at 15:19:23
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/15/90

PRIMARY COLUMN

```
*****     EXTERNAL  STANDARD  TABLE     *****
******************* 10-31-1990 15:20:21 Version 4.1 ********************
* Sample Name: PEST A L2                           Data File: W:2IC8        *
* Date: 10-28-1990 18:40:32 Method: W:2PESTAR  10-31-1990 14:14:23  #  128*
* Interface: 0   Cycle#:  8    Operator DKC Channel#: 1    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
****************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD QUANT CONF        Detector 1: ECD CONF QUANT  *
* Misc. Information: PRIMARY COLUMN                  PERFORMANCE EVA       *
****************************************************************************
Starting Delay:   0.00                     Ending retention time:   40.00
Area reject:        0                      One sample per   1.002 sec.
Amount injected:        1.00               Dilution factor:        1.00
Sample Weight:          1.000000
```

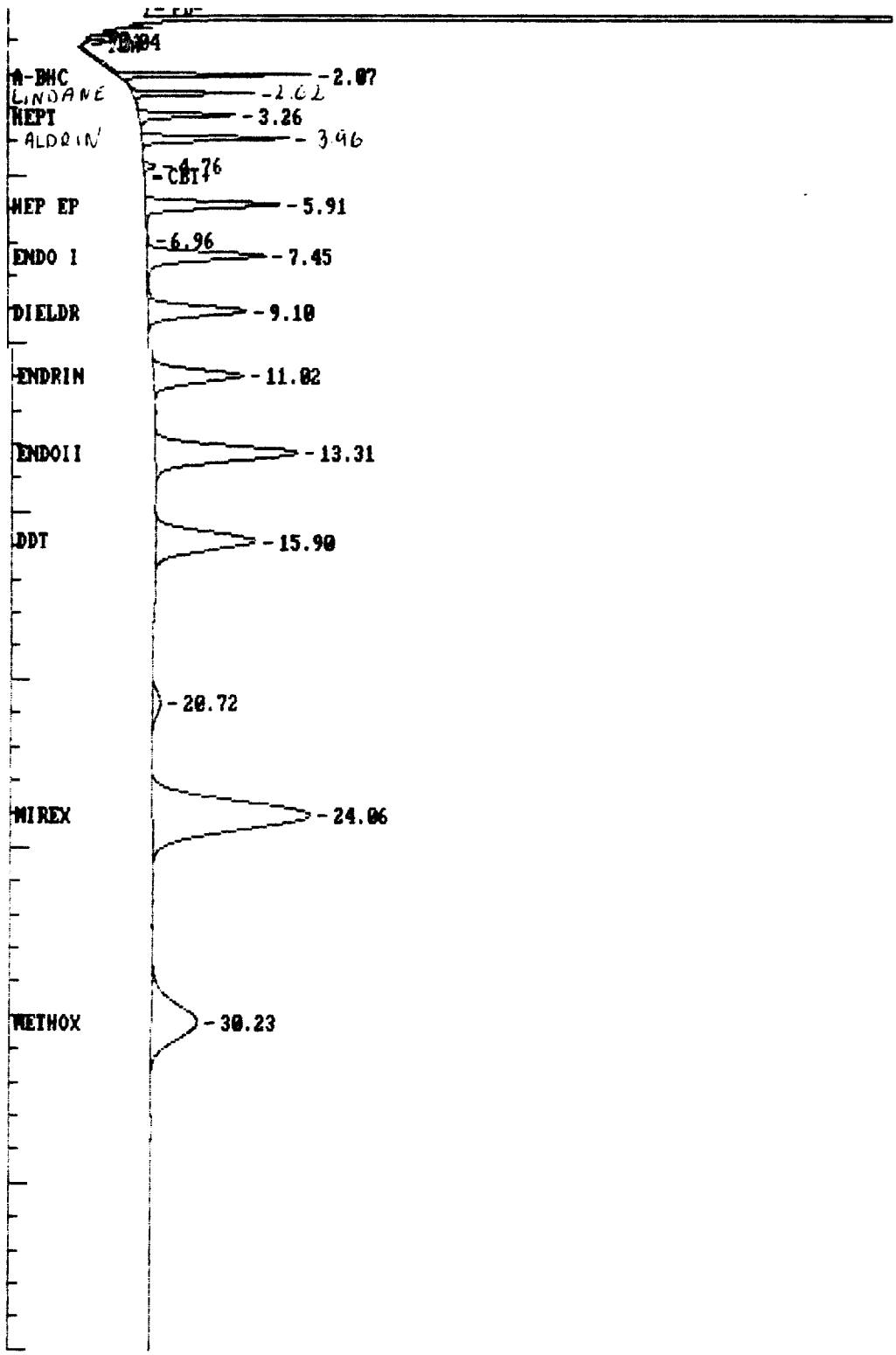
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/KML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	2.07	A-BHC	0.0031	0.2488%	247822	46867	5.3	1	17	.2061	1.2534E-08
4	2.62	LINDANE	0.0025	0.2018%	186492	29858	6.2	1	17	.2081	1.3510E-08
5	3.26	HEPT	0.0026	0.2058%	207058	23713	8.7	1	17	-.3030	1.2411E-08
6	3.96	ALDRIN	0.0050	0.4042%	348165	36169	9.6	1	17	.2081	1.4497E-08
9	5.91	HEP EPOX	0.0064	0.5139%	482552	33050	14.6	3	17	-.0740	1.3297E-08
11	7.45	ENDO I	0.0076	0.6074%	539006	29061	18.5	2	17	0	1.4071E-08
12	9.10	DIELDRIN	0.0076	0.6096%	530485	24112	22.0	2	17	0	1.4349E-08
13	11.02	ENDRIN	0.0130	1.0375%	562910	21926	25.7	1	17	0	2.3015E-08
14	13.31	ENDOII	0.0154	1.2311%	1090471	34826	31.3	1	17	0	1.4097E-08
15	15.90	DDT	0.0152	1.2198%	902312	24540	36.8	1	17	.1030	1.6880E-08
17	24.06	MIREX	1.1506	92.1410%	2284533	38731	59.0	1	17	0	5.0363E-07
18	30.23	METHOXYCHLOR	0.0197	1.5792%	820258	11120	73.8	1	17	0	2.4040E-08

TOTAL AMOUNT = 1.2487

KM
11/5/90

PRIMARY COLUMN

Areas, times, and heights stored in: W:2IC8.ATB
Data File = W:2IC8.PTS Printed on 10-31-1990 at 15:20:45
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
4/5/90

PRIMARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 10-31-1990 15:21:45 Version 4.1 **********

* Sample Name: PEST A L3 Data File: W:2IC9 *
* Date: 10-28-1990 19:24:39 Method: W:2PESTAR 10-31-1990 14:14:23 # 128*
* Interface: 0 Cycle#: 9 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA.~~ *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

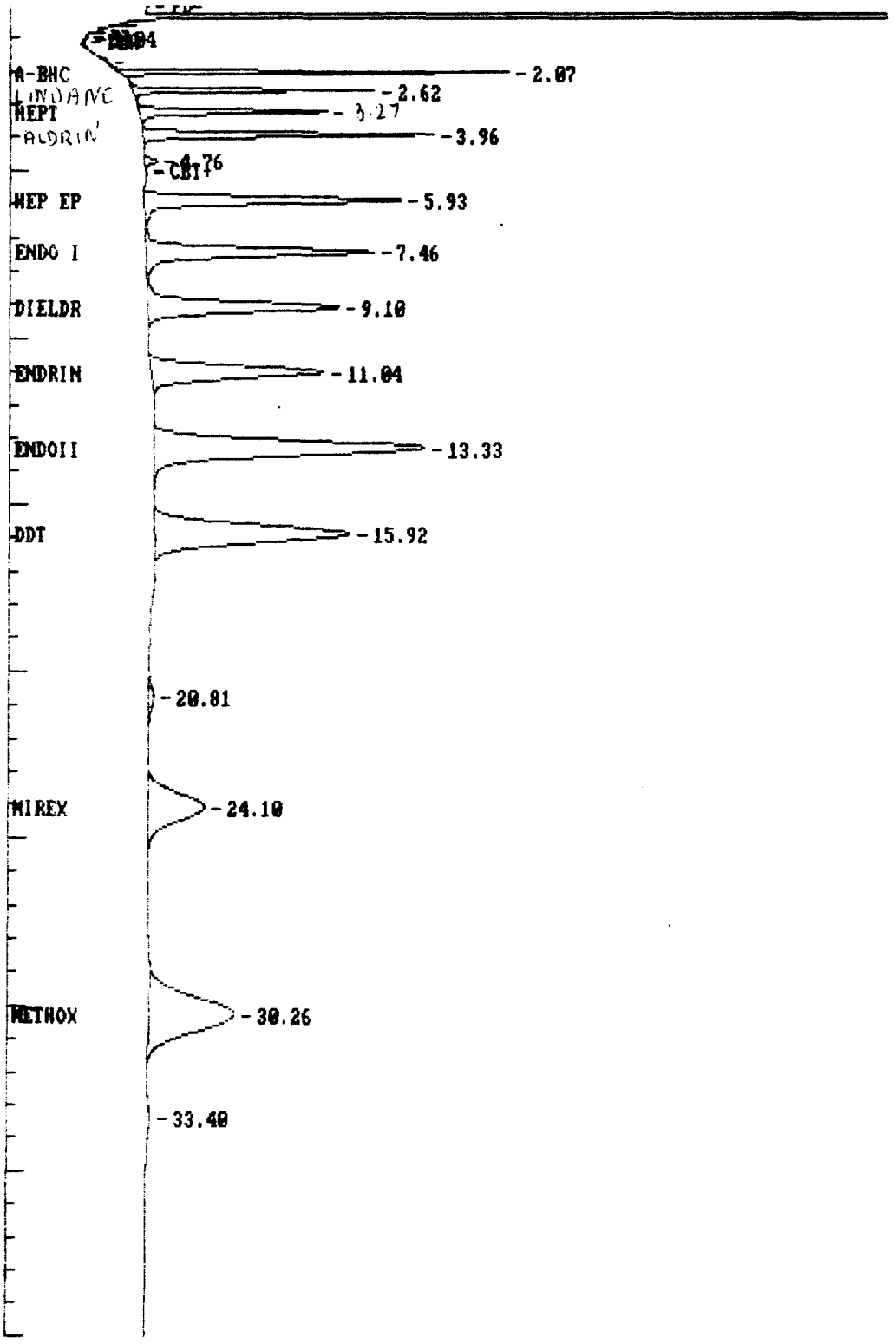
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ℓHC	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	2.07	A-BHC	0.0059	1.0027%	476349	96322	4.9	1	17	0	1.2299E-08
5	2.62	LINDANE	0.0049	0.8371%	376211	59929	6.3	1	17	0	1.3001E-08
6	3.27	HEPT	0.0049	0.8465%	398913	46308	8.6	1	17	0	1.2399E-08
7	3.96	ALDRIN	0.0097	1.6591%	691225	72082	9.6	1	17	0	1.4025E-08
10	5.93	HEP EPOX	0.0125	2.1468%	937695	63538	14.8	2	17	0	1.3378E-08
11	7.46	ENDO I	0.0151	2.5859%	1057210	56371	18.8	2	17	0	1.4292E-08
12	9.10	DIELDRIN	0.0147	2.5150%	1035802	47160	22.0	2	17	-.1139	1.4187E-08
13	11.04	ENDRIN	0.0238	4.0723%	1090250	42788	25.5	1	17	0	2.1825E-08
14	13.33	ENDOII	0.0287	4.9100%	2116980	67158	31.5	1	17	0	1.3552E-08
15	15.92	DDT	0.0281	4.8076%	1780220	48332	36.8	1	17	0	1.5780E-08
17	24.10	MIREX	~~0.3997~~	68.4052%	793651	13884	57.2	1	17	0	5.0363E-07
18	30.26	METHOXYCHLOR	0.0363	6.2119%	1509192	21220	71.1	1	17	-.0410	2.4051E-08

TOTAL AMOUNT = 0.5843

KM
11/5/90

PRIMARY COLUMN

Areas, times, and heights stored in: W:2IC9.ATB
Data File.= W:2IC9.PTS Printed on 10-31-1990 at 15:22:09
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VGM
11/5/90

PRIMARY COLUMN

```
*****   EXTERNAL  STANDARD  TABLE   *****
****************** 10-31-1990 15:23:11 Version 4.1 ********************
* Sample Name: PEST A L4                           Data File: W:2IC10   *
* Date: 10-28-1990 20:08:49 Method: W:2PESTAR  10-31-1990 14:14:23  #  128*
* Interface: 0   Cycle#:  10   Operator DKC Channel#: 1    Vial#: N.A.  *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100          *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS     *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                 *
*           Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: ~~PRIMARY COLUMN~~                ~~PERFORMANCE EVA~~  *
*************************************************************************
Starting Delay:    0.00                 Ending retention time:   40.00
Area reject:        0                   One sample per   1.002 sec.
Amount injected:        1.00            Dilution factor:        1.00
Sample Weight:          1.000000
```

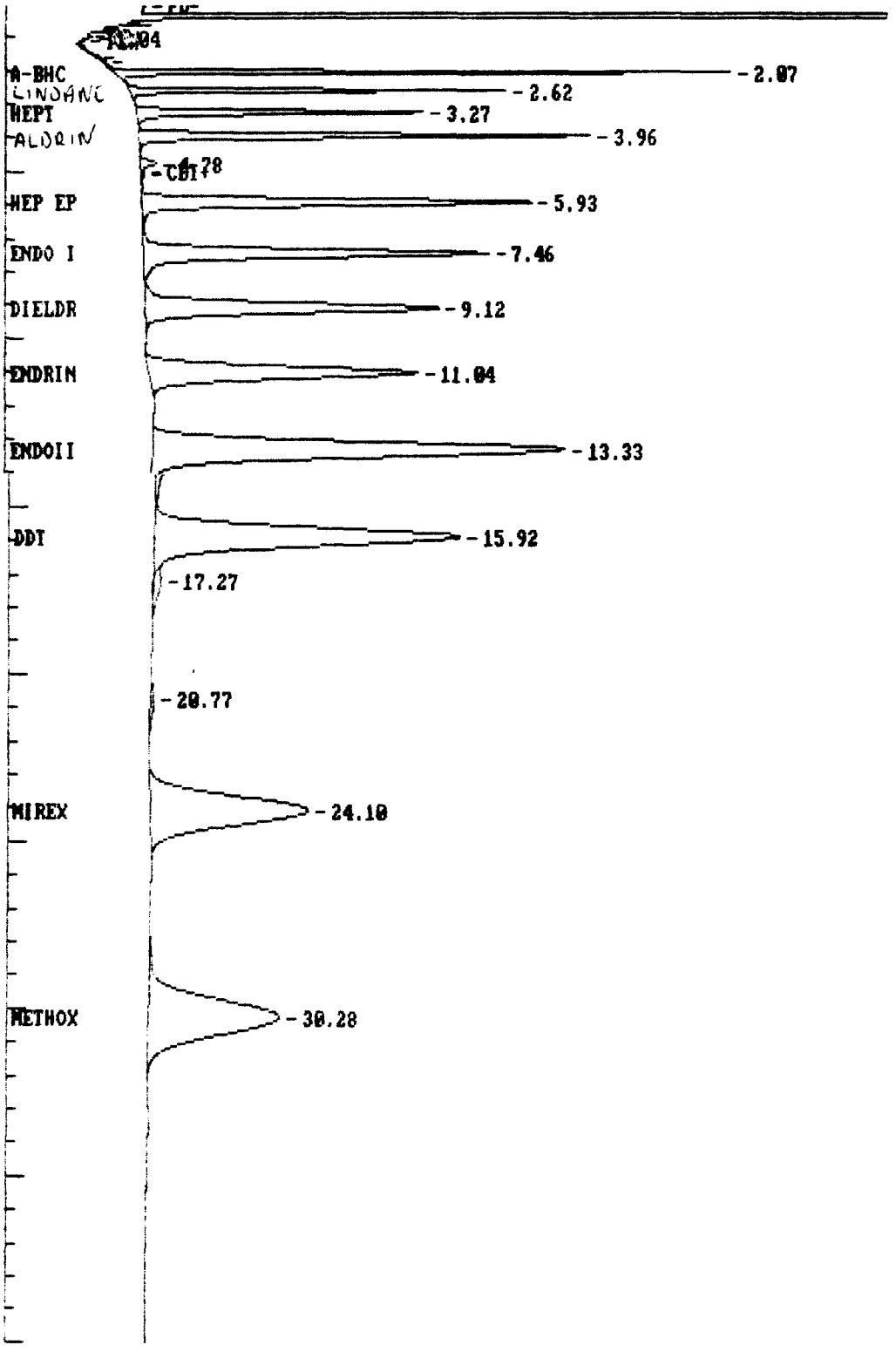
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA
5	2.07	A-BHC	0.0093	0.6471%	760448	151511	5.0 1	19	0	1.2204E-08
6	2.62	LINDANE	0.0074	0.5175%	578727	92706	6.2 1	19	0	1.2826E-08
7	3.27	HEPT	0.0075	0.5203%	602082	70760	8.5 1	19	0	1.2394E-08
8	3.96	ALDRIN	0.0149	1.0358%	1072288	111270	9.6 2	19	0	1.3855E-08
11	5.93	HEP EPOX	0.0186	1.2951%	1385606	95866	14.5 2	19	0	1.3405E-08
12	7.46	ENDO I	0.0226	1.5737%	1570848	85149	18.4 2	19	0	1.4368E-08
13	9.12	DIELDRIN	0.0222	1.5475%	1570821	72261	21.7 2	19	0	1.4129E-08
14	11.04	ENDRIN	0.0361	2.5154%	1687797	66323	25.4 1	19	0	2.1375E-08
15	13.33	ENDOII	0.0432	3.0131%	3236524	101665	31.8 2	19	0	1.3352E-08
16	15.92	DDT	0.0439	3.0631%	2861516	75284	38.0 3	19	0	1.5352E-08
19	24.10	MIREX	~~1.1525~~	80.3596%	2288482	38981	58.7 1	19	0	5.0363E-07
20	30.28	METHOXYCHLOR	0.0561	3.9119%	2332360	32145	72.6 1	19	0	2.4055E-08

TOTAL AMOUNT = 1.4342

UM
11/5/90

PRIMARY COLUMN

Areas, times, and heights stored in: W:2IC10.ATB
Data File = W:2IC10.PTS Printed on 10-31-1990 at 15:23:35
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/5/90

PRIMARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 10-31-1990 15:24:41 Version 4.1 **********

* Sample Name: PEST A L5 Data File: W:2IC11 *
* Date: 10-28-1990 20:52:59 Method: W:2PESTAR 10-31-1990 14:14:23 # 128*
* Interface: 0 Cycle#: 11 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONF~~QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

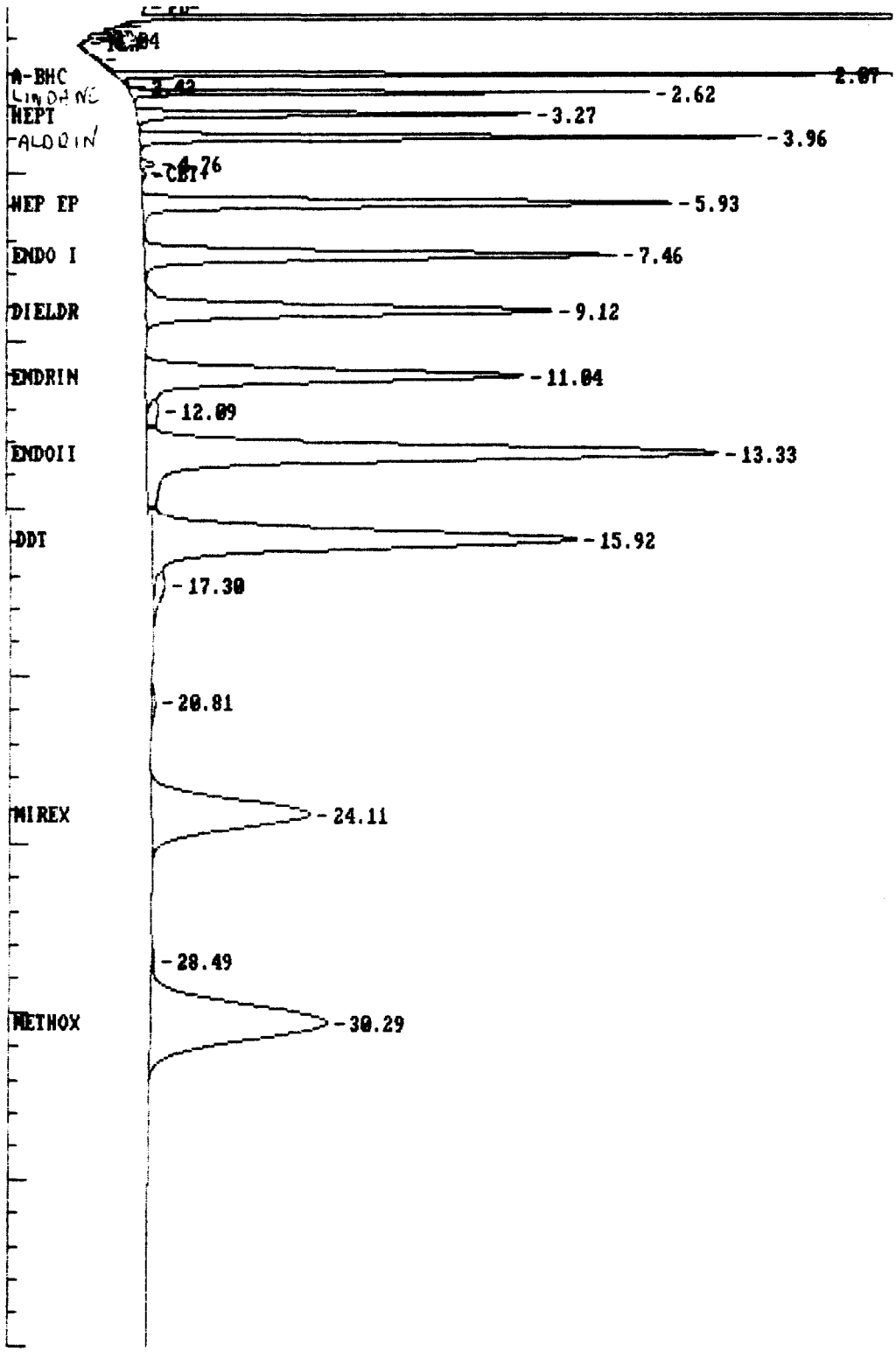
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	2.07	A-BHC	0.0127	0.8293%	1047438	207791	5.0	1	20	0	1.2160E-08
6	2.62	LINDANE	0.0101	0.6577%	792985	127147	6.2	1	20	0	1.2738E-08
7	3.27	HEPT	0.0100	0.6537%	810189	96496	8.4	1	20	0	1.2392E-08
8	3.96	ALDRIN	0.0202	1.3174%	1469163	152380	9.6	2	20	0	1.3771E-08
11	5.93	HEP EPOX	0.0250	1.6301%	1865438	129742	14.4	2	20	0	1.3420E-08
12	7.46	ENDO I	0.0299	1.9460%	2074661	115721	17.9	2	20	0	1.4406E-08
13	9.12	DIELDRIN	0.0303	1.9754%	2151709	99600	21.6	2	20	0	1.4099E-08
14	11.04	ENDRIN	0.0515	3.3525%	2437512	92707	26.3	3	20	0	2.1123E-08
16	13.33	ENDOII	0.0618	4.0247%	4669840	140183	33.3	2	20	0	1.3236E-08
17	15.92	DDT	0.0616	4.0098%	4066387	104167	39.0	3	20	0	1.5144E-08
20	24.11	MIREX	~~1.1471~~	74.6915%	2277664	38803	58.7	1	20	0	5.0363E-07
22	30.29	METHOXYCHLOR	0.0754	4.9118%	3135614	43355	72.3	2	20	0	2.4057E-08

TOTAL AMOUNT = 1.5358

KM
11/5/90

PRIMARY COLUMN

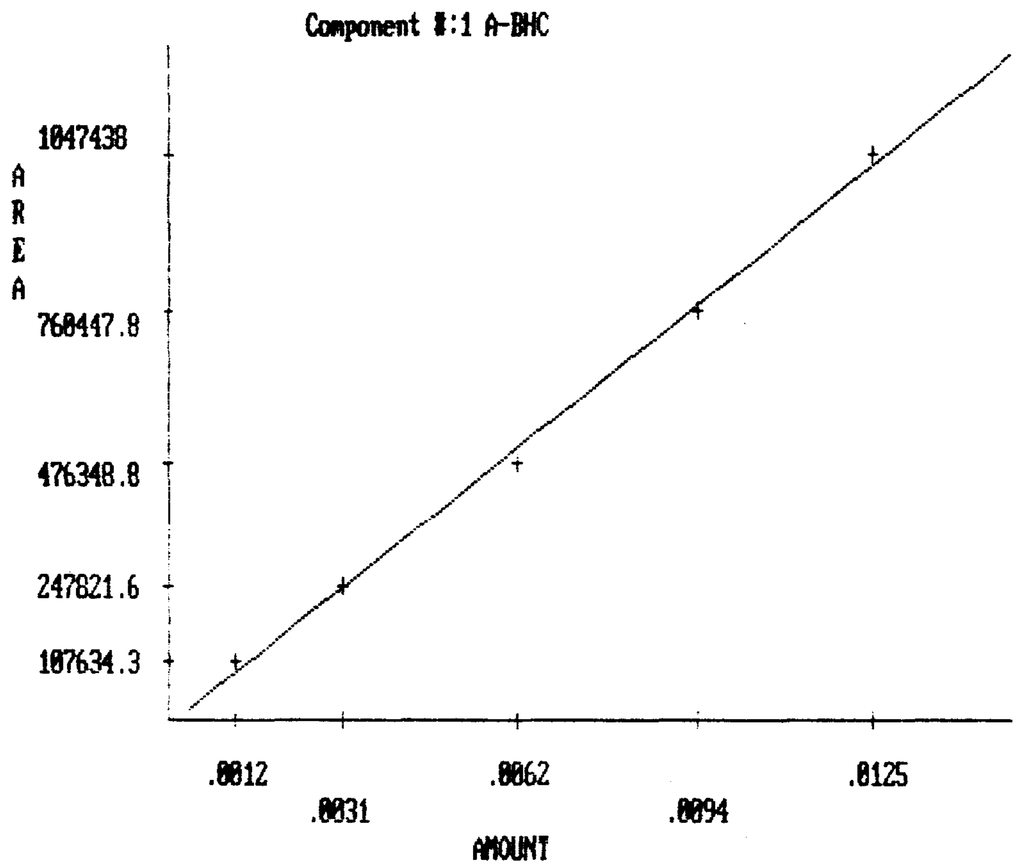
Areas, times, and heights stored in: W:2IC11.ATB
Data File = W:2IC11.PTS Printed on 10-31-1990 at 15:25:05
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



MM
11/5/90

PRIMARY COLUMN

Method W:2PESTAR
Sample MIXED PHASE COLUMN - PESTICIDE MIX A
Operator DKC
Run date 10-31-1990 14:14:23 version: 128
Printed on 10-31-1990 AT 14:26:42
Straight Line fit



Component 1 = A-BHC
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0012	107634
2	0.0031	247822
3	0.0062	476349
4	0.0094	760448
5	0.0125	1047438

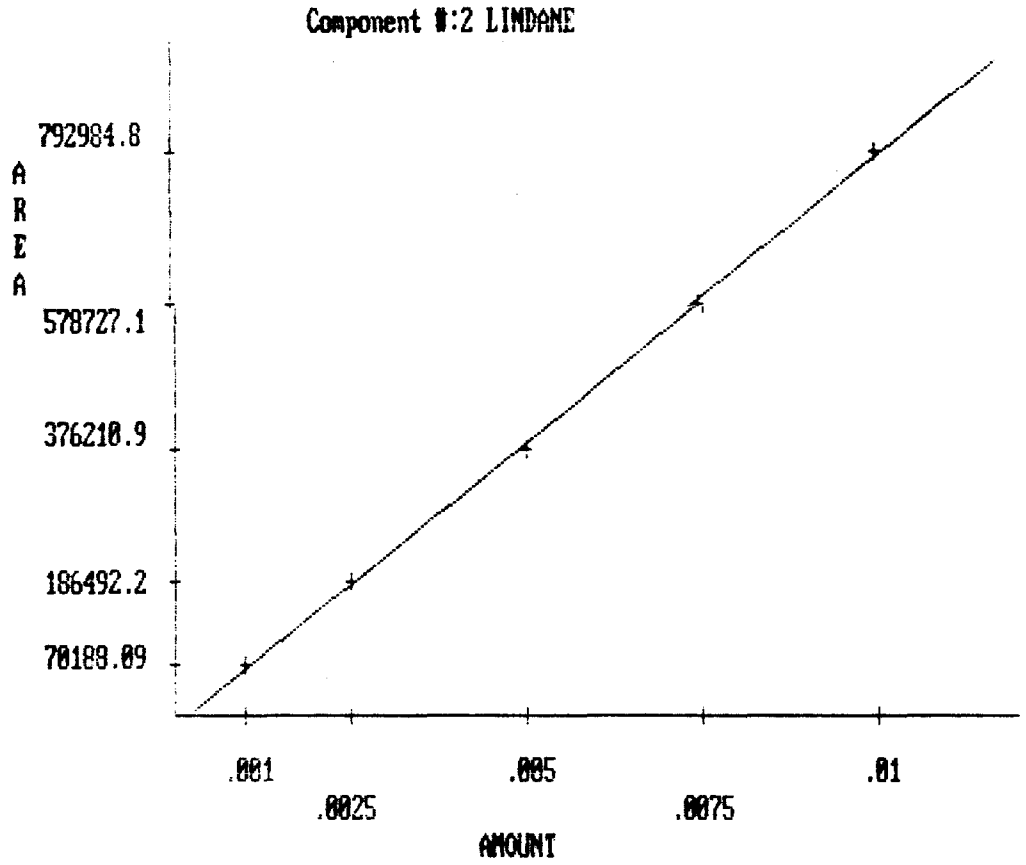
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 8.3029E+07 * Amount + -1.0093E+04

Amount = 1.2044E-08 * Area + 1.2155E-04

Correlation Coefficient = 0.9972



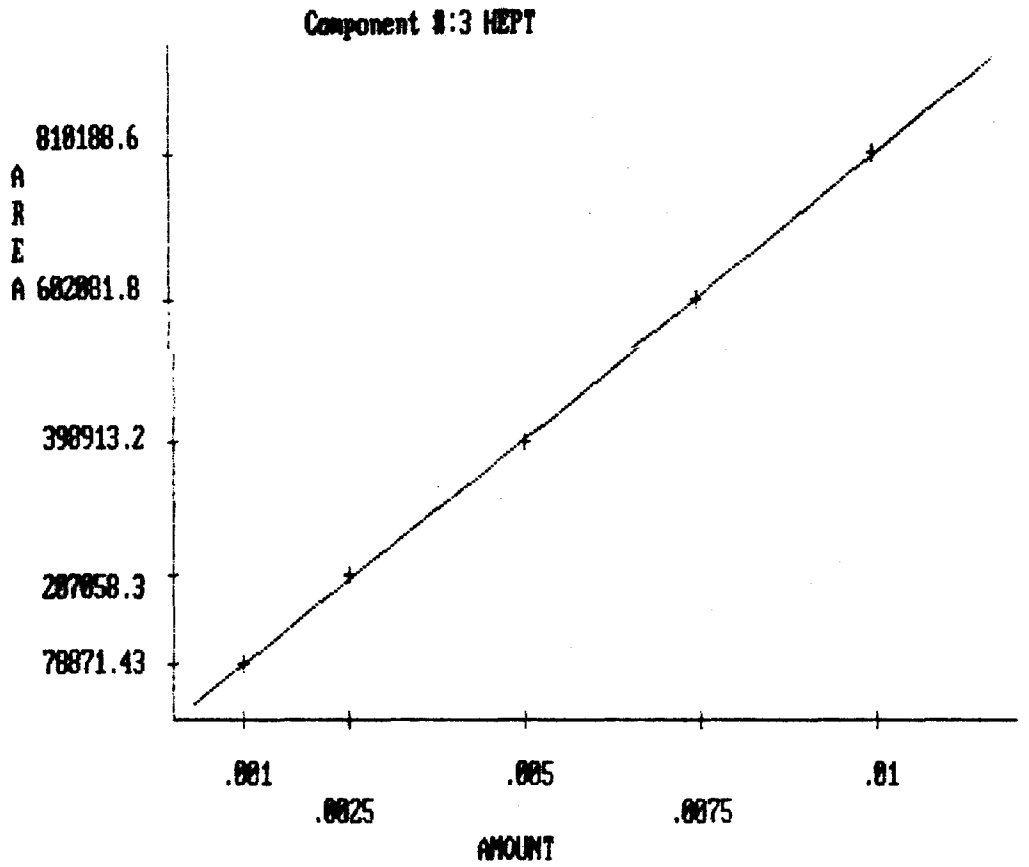
Component 2 = LINDANE
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0010	70188
2	0.0025	186492
3	0.0050	376211
4	0.0075	578727
5	0.0100	792985

Y = SLOPE * X + INTERCEPT

Area = 7.9997E+07 * Amount + -1.5064E+04
Amount = 1.2500E-08 * Area + 1.8830E-04
Correlation Coefficient = 0.9994

PRIMARY COLUMN



Component 3 = HEPT
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0010	78871
2	0.0025	207058
3	0.0050	398913
4	0.0075	602082
5	0.0100	810189

Y = SLOPE * X + INTERCEPT

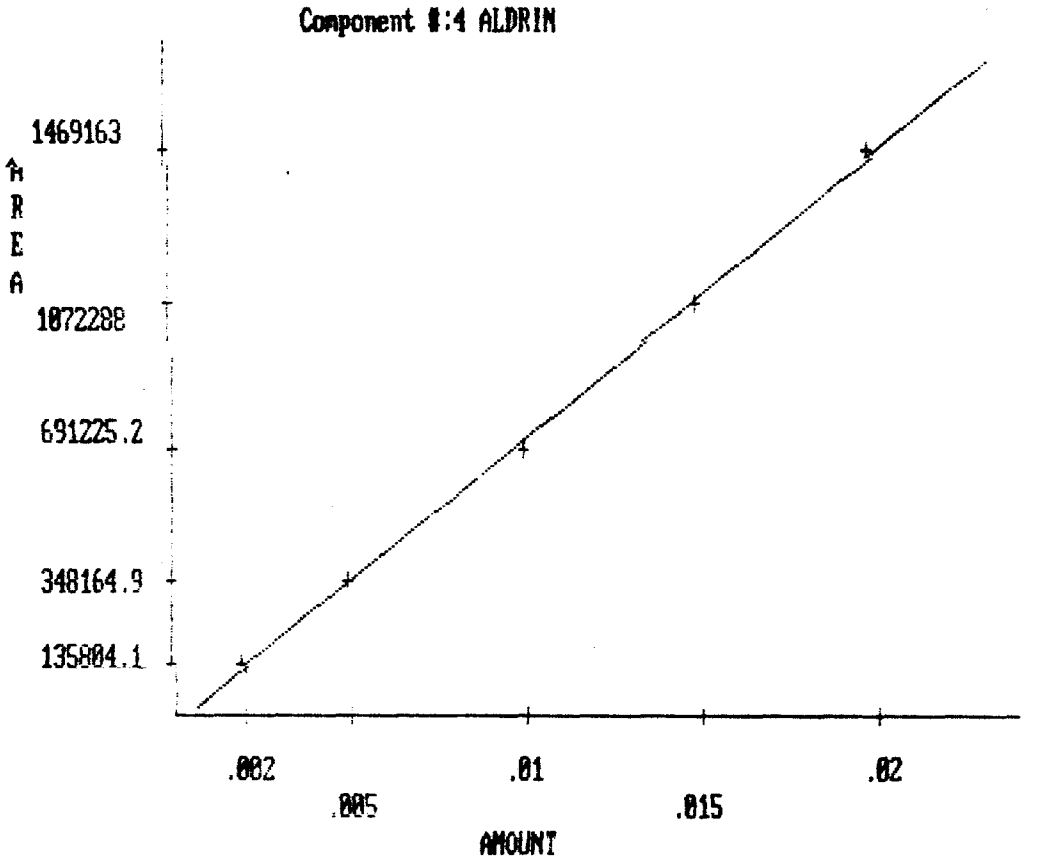
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 8.0743E+07 * Amount + -4.4012E+02

Amount = 1.2385E-08 * Area + 5.4508E-06

Correlation Coefficient = 0.9998

PRIMARY COLUMN



Component 4 = ALDRIN
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0020	135804
2	0.0050	348165
3	0.0100	691225
4	0.0150	1072288
5	0.0200	1469163

Y = SLOPE * X + INTERCEPT

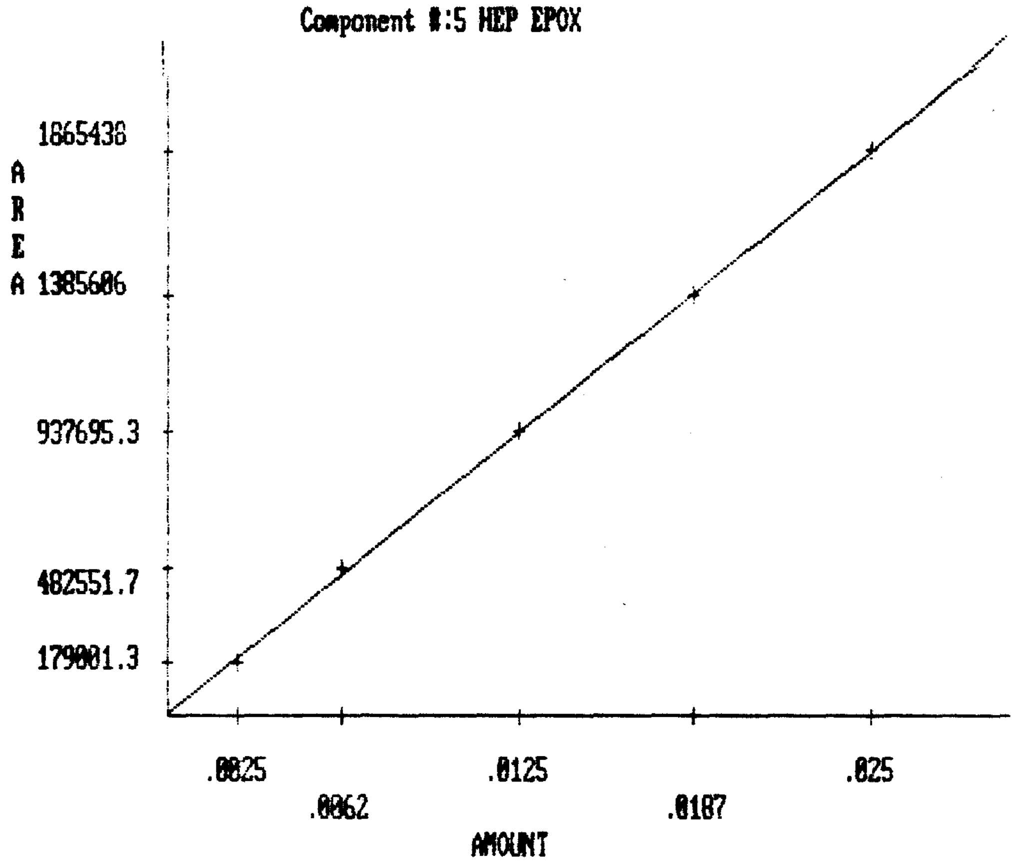
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 7.3823E+07 * Amount + -2.4435E+04

Amount = 1.3546E-08 * Area + 3.3099E-04

Correlation Coefficient = 0.9991

PRIMARY COLUMN

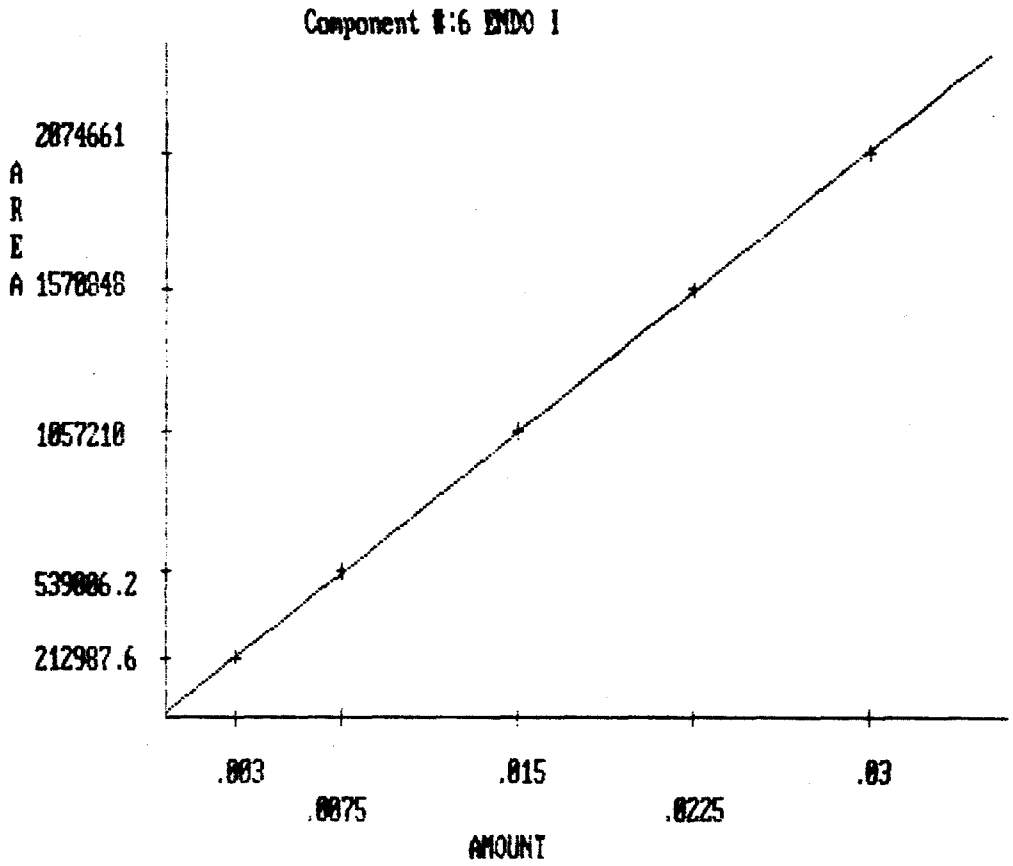


Component 5 = HEP EPOX
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0025	179001
2	0.0062	482552
3	0.0125	937695
4	0.0187	1385606
5	0.0250	1865438

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 7.4275E+07 * Amount + 5.9692E+03
Amount = 1.3463E-08 * Area + -8.0366E-05
Correlation Coefficient = 0.9997

PRIMARY COLUMN



Component 6 = ENDO I
EXTERNAL STANDARD CALIBRATION

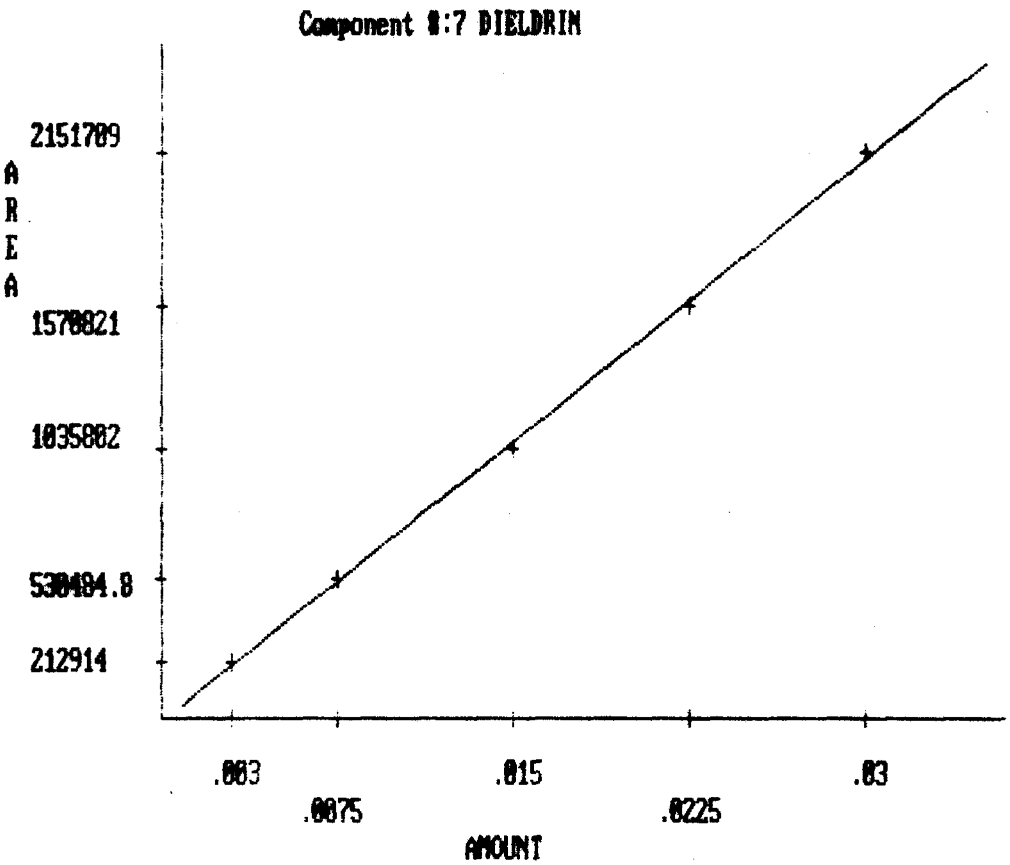
LEVEL	AMOUNT	AREA
1	0.0030	212985
2	0.0075	539006
3	0.0150	1057210
4	0.0225	1570848
5	0.0300	2074661

Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDD
+07 * Amount + 1.6795E+04
* Area + -2.4391E-04
; = 0.9999

DDDDDDDDDDDDDDDDDDDDDDDDD
Area = 6.8856E-
Amount = 1.4523E-08
Correlation Coefficient

PRIMARY COLUMN



Component 7 = DIELDRIN

EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0030	212914
2	0.0075	530485
3	0.0150	1035802
4	0.0225	1570821
5	0.0300	2151709

Y = SLOPE * X + INTERCEPT

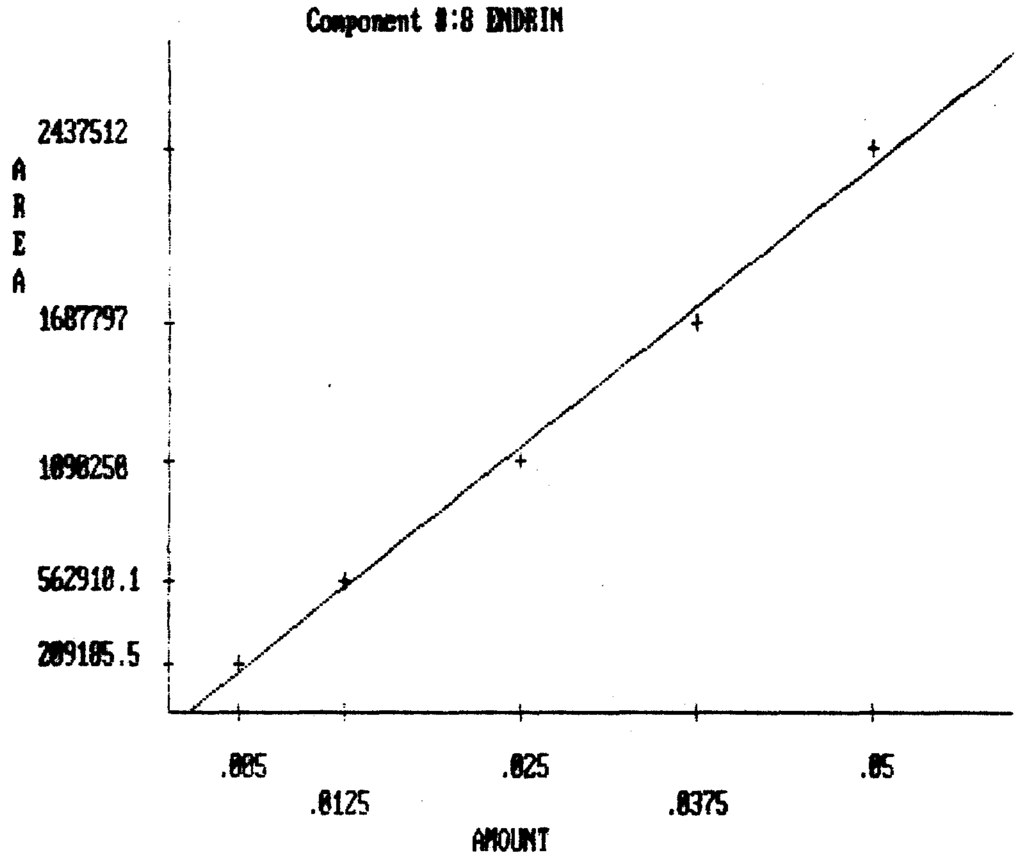
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 7.1341E+07 * Amount + -1.2569E+04

Amount = 1.4017E-08 * Area + 1.7619E-04

Correlation Coefficient = 0.9993

PRIMARY COLUMN

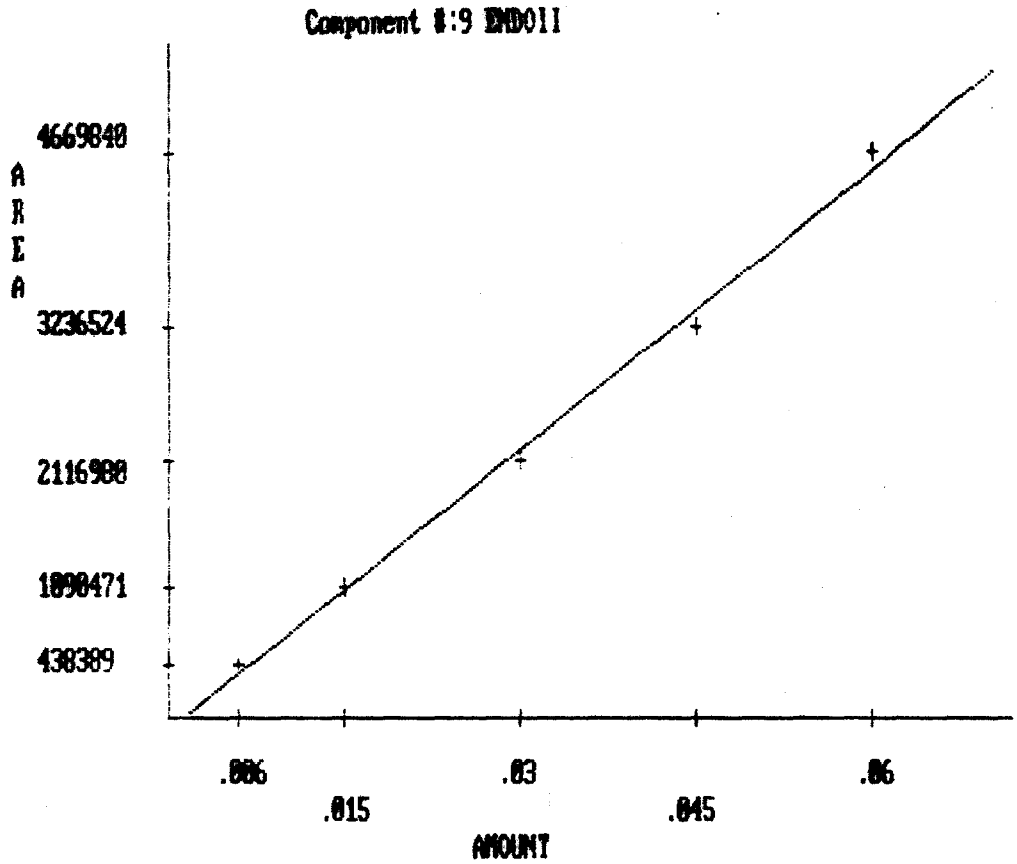


Component 8 = ENDRIN
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0050	209186
2	0.0125	562910
3	0.0250	1090250
4	0.0375	1687797
5	0.0500	2437512

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 4.8651E+07 * Amount + -6.7396E+04
Amount = 2.0555E-08 * Area + 1.3853E-03
Correlation Coefficient = 0.9952

PRIMARY COLUMN

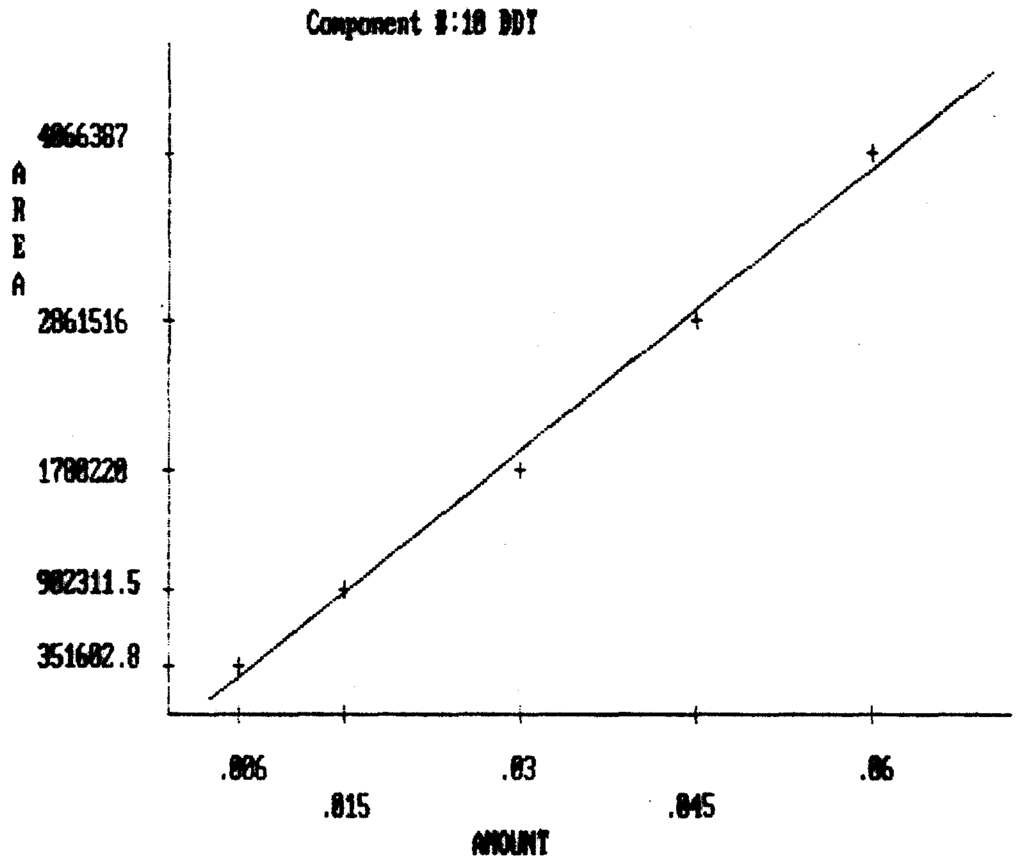


Component 9 = ENDOII
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0060	438389
2	0.0150	1090471
3	0.0300	2116980
4	0.0450	3236524
5	0.0600	4669840

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 7.7080E+07 * Amount + -9.4470E+04
Amount = 1.2973E-08 * Area + 1.2256E-03
Correlation Coefficient = 0.9953

PRIMARY COLUMN



Component 10 = DDT

EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0060	351603
2	0.0150	902312
3	0.0300	1780220
4	0.0450	2861516
5	0.0600	4066387

Y = SLOPE * X + INTERCEPT

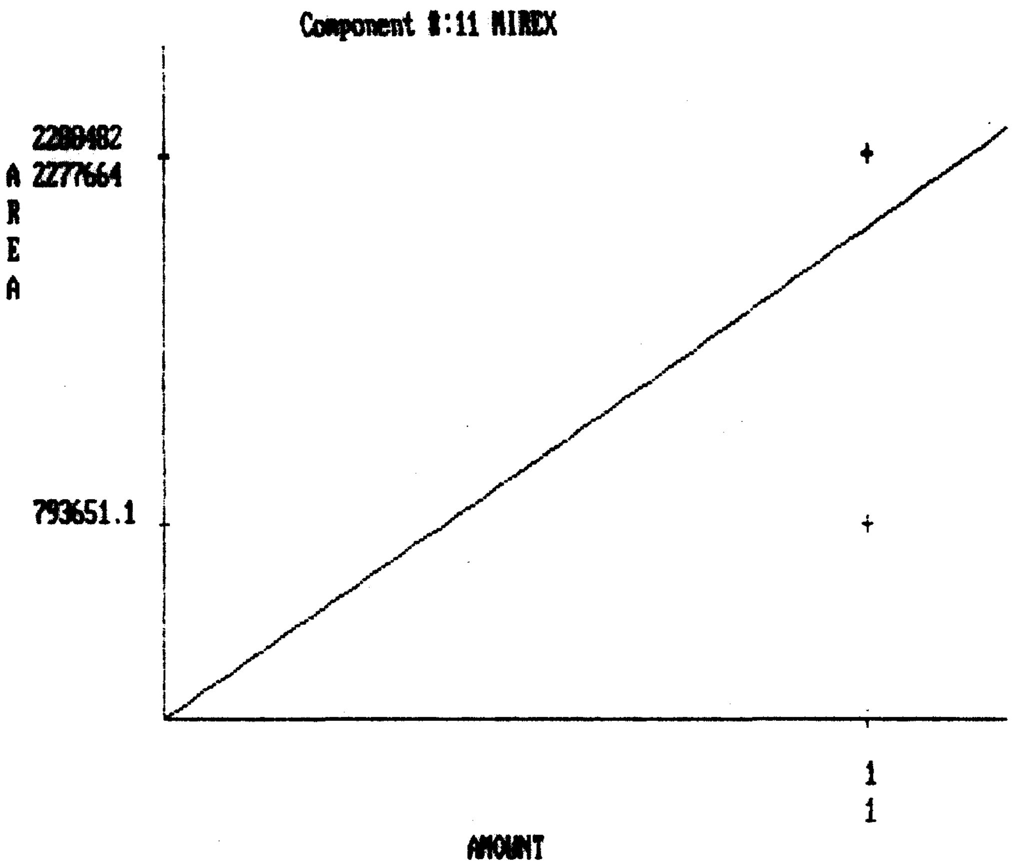
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 6.8265E+07 * Amount + -1.3746E+05

Amount = 1.4649E-08 * Area + 2.0136E-03

Correlation Coefficient = 0.9955

PRIMARY COLUMN



Component 11 = MIREX
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	1.0000	2283672
2	1.0000	2284533
3	1.0000	793651
4	1.0000	2288482
5	1.0000	2277664

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 1.9856E+06 * Amount + 0.0000E+00
Amount = 5.0363E-07 * Area + 0.0000E+00
Correlation Coefficient = 0.0000

U.S. Environmental Protection Agency Region V

Superfund Document Management System (SDMS)

Lab Data Reference Sheet

Please contact the Superfund Records Manager for further information.

I. Unscannable item due to format

___ Graph

___ Mail receipts

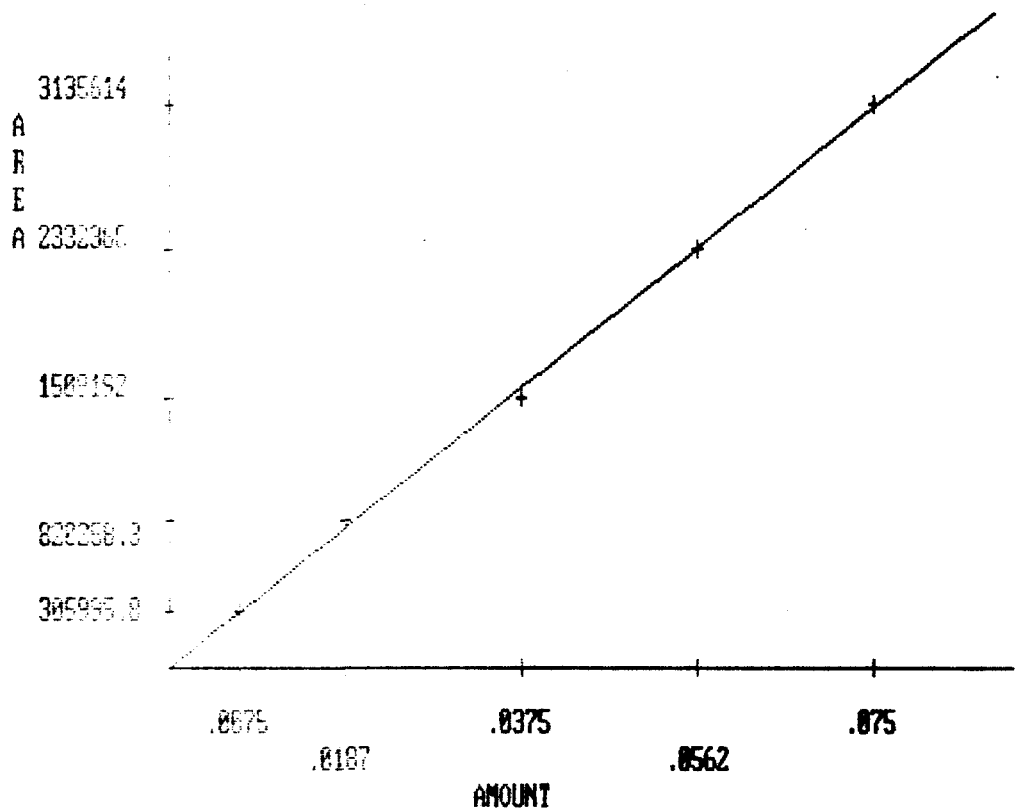
___ Sample tags

II. Image Quality (Pages follow / No. of pages 1)

✓ Resolution / Contrast

PRIMARY COLUMN

Component #:12 METHOXYCHLOR



Component 12 = METHOXYCHLOR
Method: STANDARD CALIBRATION

LEVEL	AMOUNT	AREA

PRIMARY COLUMN

```
****** EXTERNAL STANDARD TABLE ******
******************** 11-02-1990 16:04:26 Version 4.1 ********************
* Sample Name: PEST A L3 #3                    Data File: W:2MAG22        *
* Date: 11-01-1990 01:59:41 Method: W:2PESTAR  10-31-1990 14:14:23  #  128*
* Interface: 0   Cycle#:  22   Operator DKC Channel#: 1    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF        Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: ~~PRIMARY COLUMN~~                  ~~PRIMARY COLUMN~~  *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    40.00
Area reject:        0                      One sample per   1.002 sec.
Amount injected:        1.00               Dilution factor:        1.00
Sample Weight:          1.000000
```

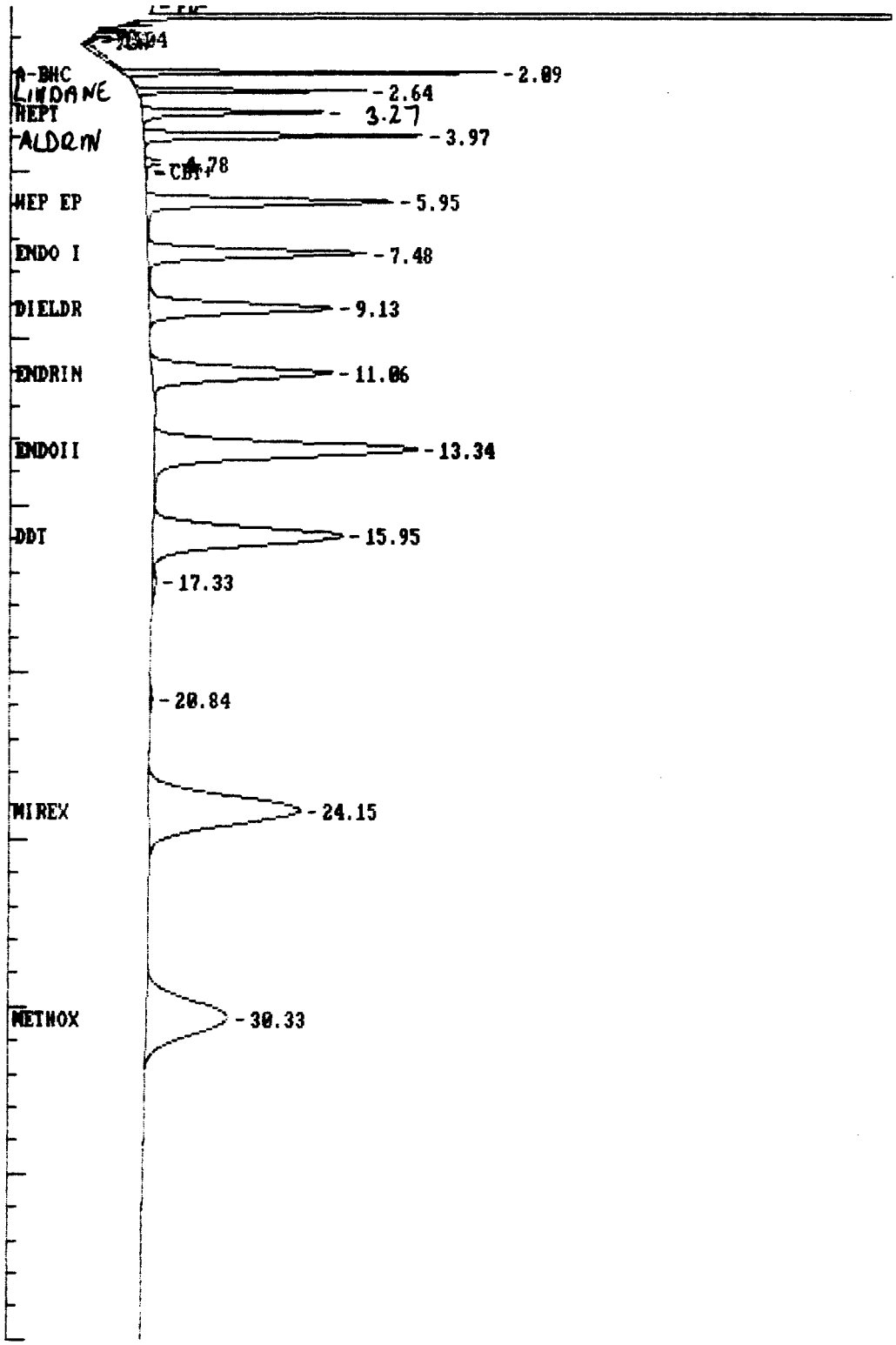
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	2.09	A-BHC	0.0065	0.4961%	526655	94410	5.6	1	15	.4586	1.2275E-08
3	2.64	LINDANE	0.0047	0.3616%	361877	57959	6.2	1	15	.2896	1.3021E-08
4	3.29	HEPT	0.0049	0.3737%	392683	45321	8.7	1	15	.1633	1.2399E-08
5	3.97	ALDRIN	0.0094	0.7197%	667887	69302	9.6	1	15	0	1.4041E-08
8	5.95	HEP EPOX	0.0120	0.9237%	899985	61984	14.5	2	15	0	1.3374E-08
9	7.50	ENDO I	0.0141	1.0799%	985642	54830	18.0	2	15	.1008	1.4276E-08
10	9.15	DIELDRIN	0.0142	1.0871%	997965	45820	21.8	2	15	0	1.4194E-08
11	11.07	ENDRIN	0.0255	1.9577%	1173669	46403	25.3	1	15	-.0435	2.1735E-08
12	13.38	ENDOII	0.0281	2.1535%	2068418	65824	31.4	1	15	0	1.3566E-08
13	15.98	DDT	0.0274	2.1055%	1735366	47219	36.8	1	15	0	1.5809E-08
15	24.20	MIREX	~~1.1211~~	86.0387%	2226059	38004	58.6	1	15	0	5.0363E-07
16	30.39	METHOXYCHLOR	0.0352	2.7029%	1464377	20770	70.5	1	15	0	2.4050E-08

TOTAL AMOUNT = 1.3030

LCM
11/15/90

PRIMARY COLUMN

Data File = W:2MAG13.PTS Printed on 11-02-1990 at 15:56:51
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/5/90

PRIMARY COLUMN

****** EXTERNAL STANDARD TABLE ******

********** 11-02-1990 10:27:32 Version 4.1 **********

* Sample Name: PEST A L3 #4 Data File: W:2MAG34 *
* Date: 11-01-1990 11:51:22 Method: W:2PESTAR 10-31-1990 14:14:23 # 128*
* Interface: 0 Cycle#: 34 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

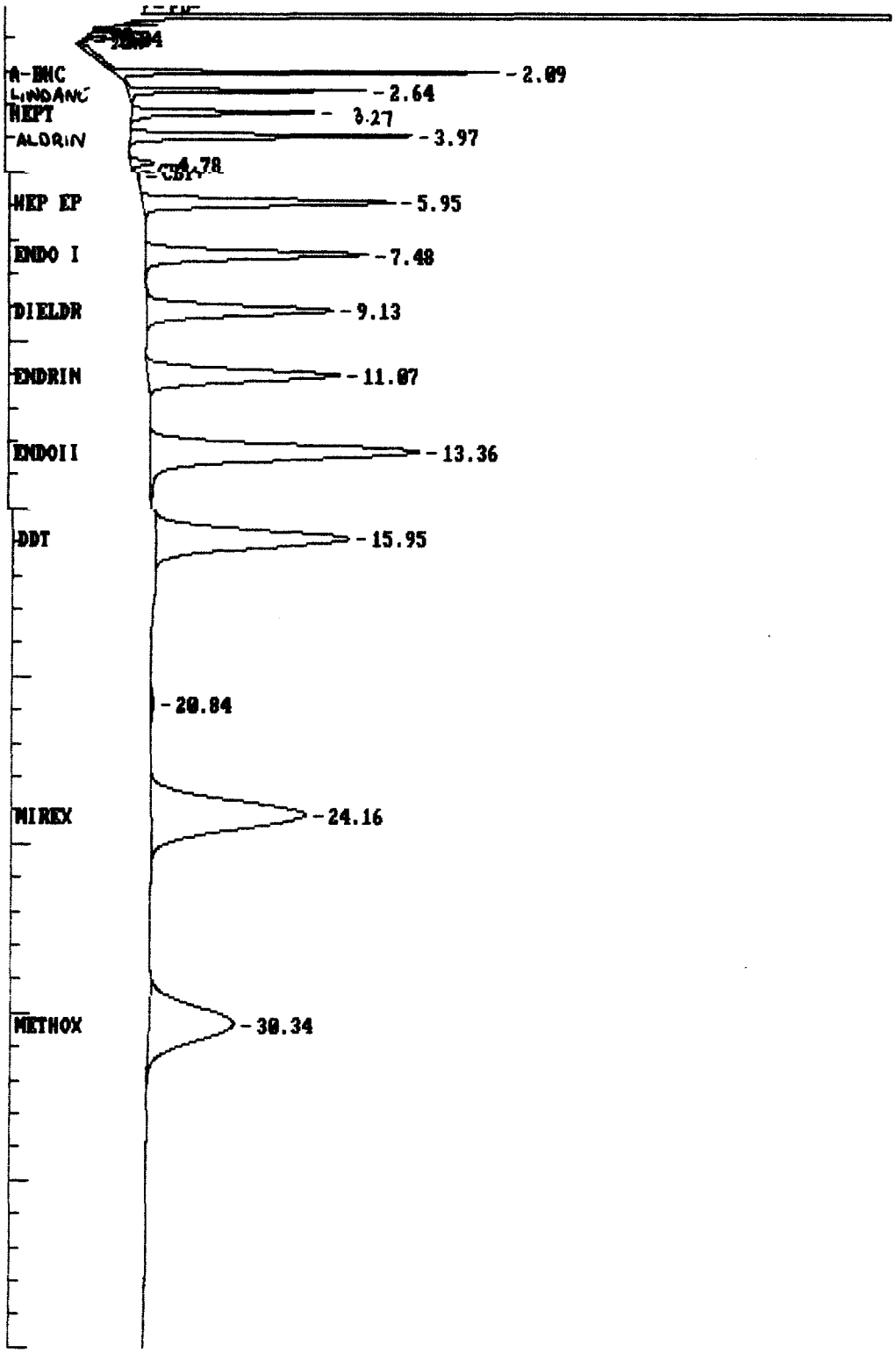
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~K~~ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	2.09	A-BHC	0.0065	0.5014%	530211	94199	5.6	1	15	.5974	1.2273E-08
3	2.64	LINDANE	0.0049	0.3757%	374949	58365	6.4	1	15	.4282	1.3003E-08
4	3.27	HEPT	0.0048	0.3689%	386096	44721	8.6	1	15	-.2073	1.2399E-08
5	3.97	ALDRIN	0.0092	0.7087%	654532	69114	9.5	1	15	.2137	1.4052E-08
8	5.95	HEP EPOX	0.0116	0.8963%	870001	61740	14.1	2	15	0	1.3371E-08
9	7.48	ENDO I	0.0139	1.0673%	970538	54613	17.8	2	15	.0159	1.4272E-08
10	9.13	DIELDRIN	0.0141	1.0864%	993314	45915	21.6	2	15	0	1.4195E-08
11	11.07	ENDRIN	0.0258	1.9869%	1187159	47078	25.2	1	15	0	2.1721E-08
12	13.36	ENDOII	0.0284	2.1863%	2092671	66091	31.7	2	15	0	1.3559E-08
13	15.95	DDT	0.0277	2.1345%	1753601	47456	37.0	2	15	0	1.5797E-08
15	24.16	MIREX	~~1.1137~~	85.9683%	2215391	37917	58.4	1	15	0	5.0363E-07
16	30.34	METHOXYCHLOR	0.0353	2.7195%	1467507	20876	70.3	1	15	0	2.4050E-08

TOTAL AMOUNT = 1.2978

SB 11/6/90

PRIMARY COLUMN

Data File = W:2MAG34.PTS Printed on 11-02-1990 at 10:27:55
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8
11/6/90

PRIMARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 10:33:12 Version 4.1 **********

* Sample Name: PEST A L3 #5 Data File: W:2MAG43 *
* Date: 11-01-1990 17:24:58 Method: W:2PESTAR 10-31-1990 14:14:23 # 128*
* Interface: 0 Cycle#: 43 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ conf Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	2.05	A-BHC	0.0064	0.4921%	519134	92488	5.6	1	16	0	1.2278E-08
3	2.61	LINDANE	0.0047	0.3641%	362203	58384	6.2	1	16	.2657	1.3020E-08
4	3.24	HEPT	0.0048	0.3732%	389866	45471	8.6	1	16	-.1212	1.2399E-08
5	3.92	ALDRIN	0.0093	0.7203%	664325	69507	9.6	2	16	0	1.4044E-08
8	5.88	HEP EPOX.	0.0118	0.9100%	881630	43739	14.3	1	16	0	1.3372E-08
9	7.40	ENDO I	0.0138	1.0657%	967289	54614	17.7	1	16	0	1.4271E-08
10	9.03	DIELDRIN	0.0141	1.0858%	990841	46015	21.5	1	16	0	1.4195E-08
11	10.94	ENDRIN	0.0257	1.9855%	1183836	46457	25.5	3	16	0	2.1725E-08
13	13.21	ENDOII	0.0287	2.2191%	2121176	66791	31.8	2	16	0	1.3551E-08
14	15.78	DDT	0.0278	2.1437%	1758136	47703	36.9	2	16	0	1.5794E-08
16	23.90	MIREX	~~1.1128~~	85.9093%	2209567	37839	58.4	1	16	0	5.0363E-07
17	30.03	METHOXYCHLOR	0.0354	2.7310%	1470859	21015	70.0	1	16	0	2.4050E-08

TOTAL AMOUNT = 1.2953

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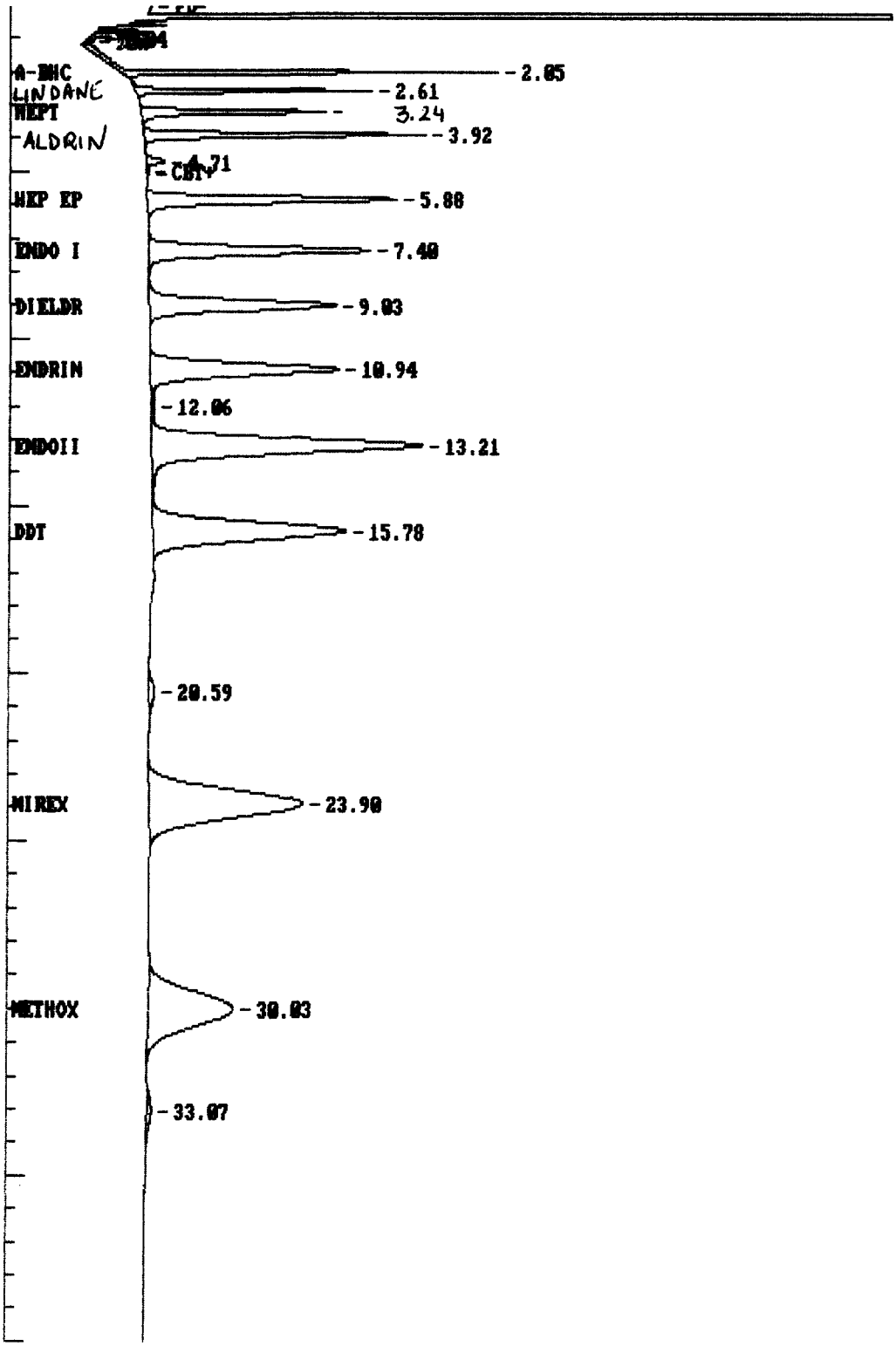
PRIMARY COLUMN

Data File = W:2MAG43.PTS Printed on 11-02-1990 at 10:33:35
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

SECONDARY COLUMN

Output redirected to LPT1:

***** EXTERNAL STANDARD TABLE *****

********** 11-01-1990 09:42:37 Version 4.1 **********

* Sample Name: PEST A L1 Data File: W:1IC6 *
* Date: 10-28-1990 17:12:14 Method: W:1PESTA 10-30-1990 14:55:36 # 155 *
* Interface: 0 Cycle#: 6 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

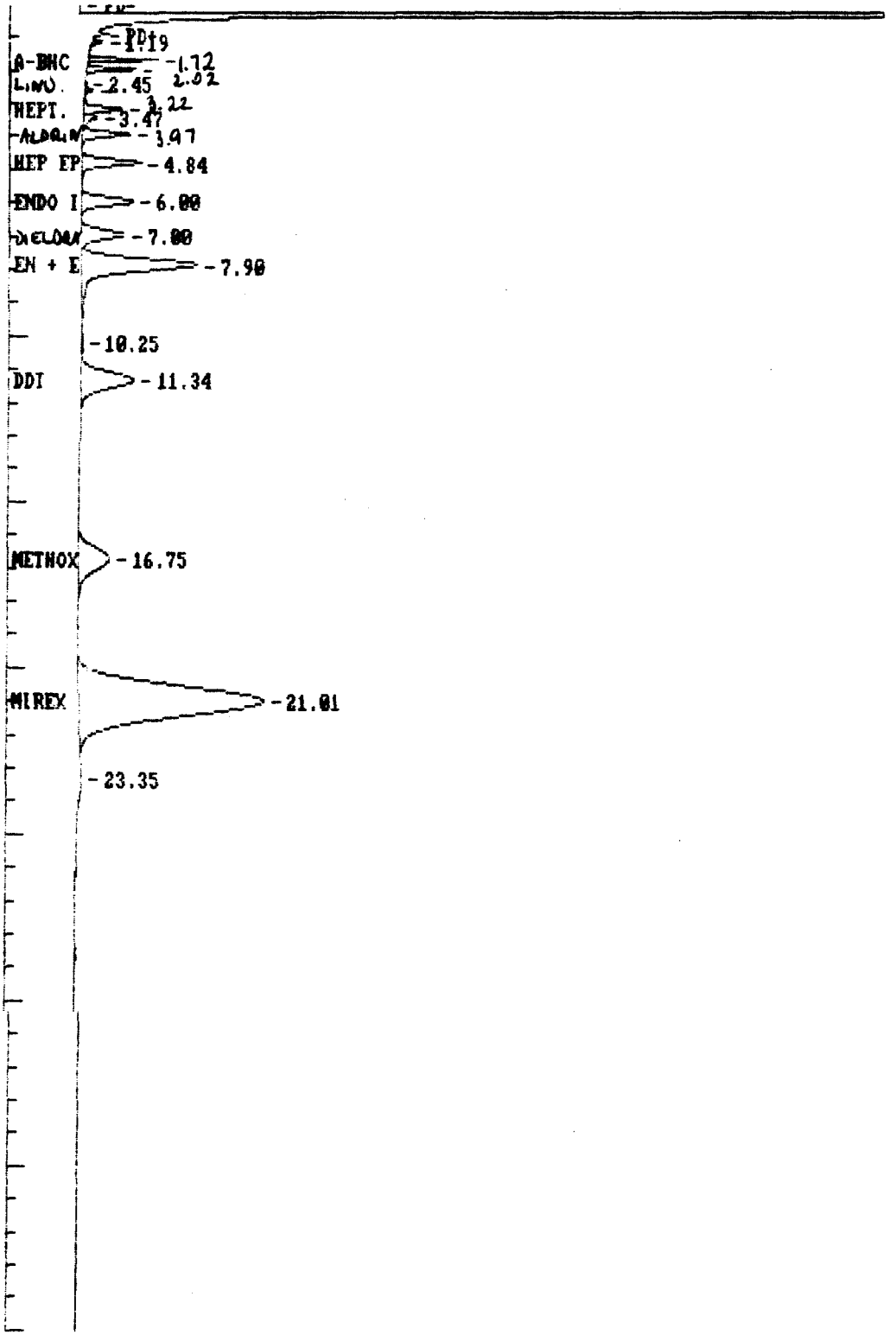
****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	1.72	A-BHC	0.0015	0.1304%	87621	17462	5.0	2	16	-.1742	1.7532E-08
3	2.02	LINDANE	0.0012	0.1059%	73061	12228	6.0	2	16	0	1.7075E-08
6	3.22	HEPT.	0.0010	0.0888%	99480	9540	10.4	2	16	.2753	1.0524E-08
8	3.97	ALDRIN	0.0025	0.2112%	141414	11786	12.0	2	16	0	1.7595E-08
9	4.84	HEP EPOX	0.0028	0.2396%	215177	14581	14.8	1	16	.4485	1.3120E-08
10	6.00	ENDO I	0.0035	0.2931%	229208	12909	17.8	2	16	0	1.5071E-08
11	7.00	DIELDRIN	0.0036	0.3082%	220239	10727	20.5	2	16	.3160	1.6491E-08
12	7.90	EN + EN II	0.0124	1.0521%	813881	29026	28.0	3	16	.3705	1.5233E-08
14	11.34	DDT	0.0070	0.5975%	457635	13113	34.9	2	16	-.0879	1.5385E-08
15	16.75	METHOXYCHLOR	0.0079	0.6725%	366352	7531	48.6	1	16	0	2.1632E-08
16	21.01	MIREX	~~1.1348~~	96.3007%	2880309	45953	62.7	1	16	0	3.9398E-07

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC6.ATB
Data File = W:1IC6.PTS Printed on 11-01-1990 at 09:42:59
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



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SECONDARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-01-1990 09:43:50 Version 4.1 **********

* Sample Name: PEST A L2 Data File: W:1IC7 *

* Date: 10-28-1990 17:56:24 Method: W:1PESTA 10-30-1990 14:55:36 # 155 *

* Interface: 0 Cycle#: 7 Operator DKC Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *

* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.000000

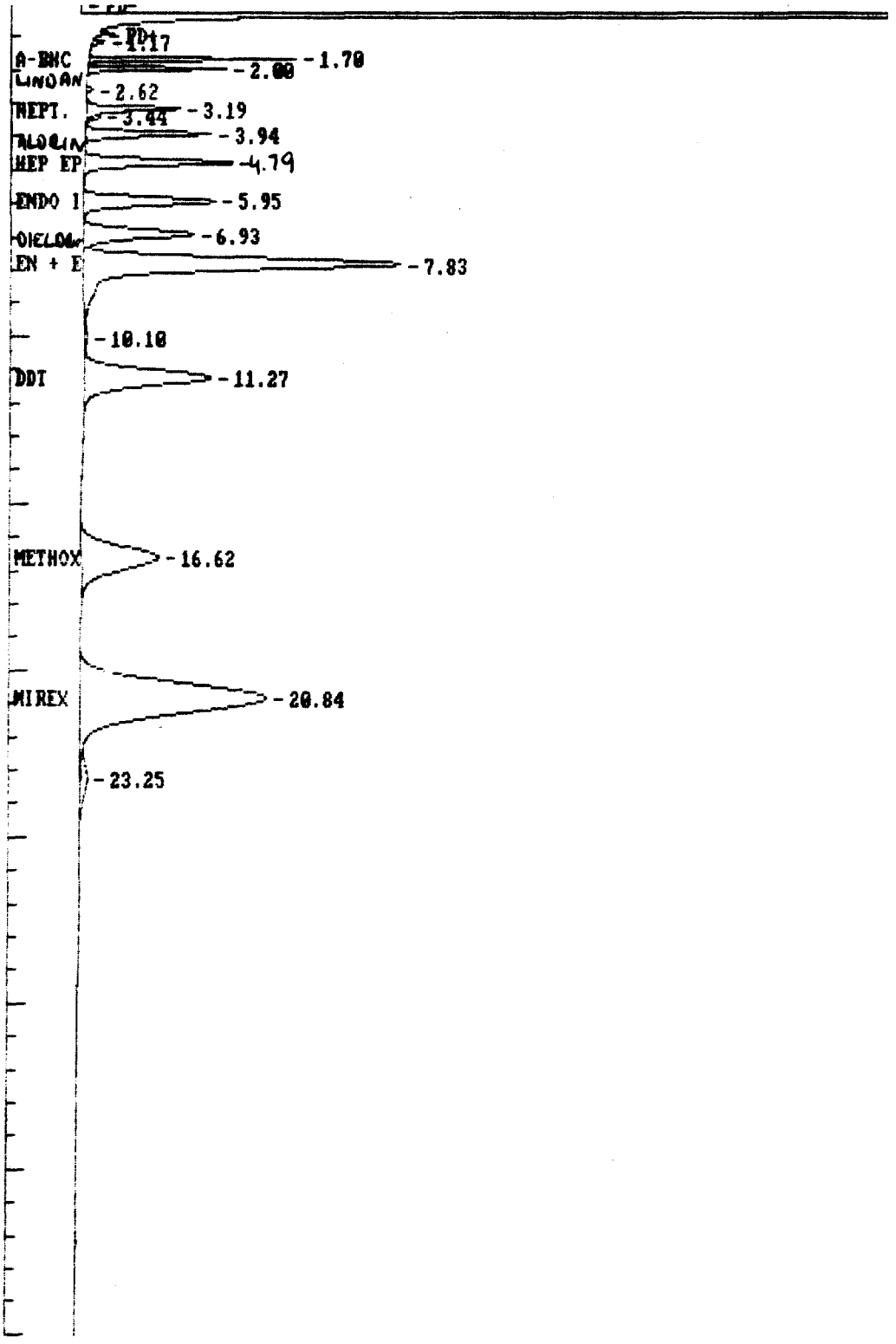
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	1.70	A-BHC	0.0030	0.2402%	249996	51246	4.9	2	15	-.3513	1.2013E-08
3	2.00	LINDANE	0.0025	0.1969%	198057	34423	5.8	2	15	0	1.2432E-08
5	3.19	HEPT.	0.0025	0.2007%	250905	23449	10.7	3	15	0	1.0002E-08
7	3.94	ALDRIN	0.0050	0.3975%	363133	31424	11.6	2	15	0	1.3687E-08
8	4.79	HEP EPOX	0.0063	0.5020%	529089	36768	14.4	1	15	.2059	1.1863E-08
9	5.95	ENDO I	0.0075	0.6028%	570238	32683	17.4	2	15	0	1.3217E-08
10	6.93	DIELDRIN	0.0075	0.6003%	549697	27299	20.1	2	15	.1545	1.3654E-08
11	7.83	EN + EN II	0.0275	2.1979%	2134890	78558	27.2	3	15	.3191	1.2873E-08
13	11.27	DDT	0.0153	1.2225%	1063771	31442	33.8	2	15	.1193	1.4370E-08
14	16.62	METHOXYCHLOR	0.0190	1.5197%	944589	18978	49.8	1	15	0	2.0117E-08
15	20.84	MIREX	~~1.1544~~	92.3196%	2930074	46005	63.7	3	15	0	3.9398E-07

TOTAL AMOUNT = 1.2504

KM
11/5/90

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC7.ATB
Data File = W:1IC7.PTS Printed on 11-01-1990 at 09:44:14
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

```
*****   EXTERNAL  STANDARD  TABLE   *****
******************** 11-01-1990 09:45:07 Version 4.1 *********************
* Sample Name: PEST A L3                          Data File: W:1IC8         *
* Date: 10-28-1990 18:40:33 Method: W:1PESTA  10-30-1990 14:55:36  #  155 *
* Interface: 0   Cycle#:  8    Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
****************************************************************************
* Instrument Type: HP 5890A #2           Column Type: PACKED COLUMNS       *
*               Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*             Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: ~~PERFORMANCE EVALUATION~~          LPT1:        *     *
****************************************************************************
Starting Delay:    0.00                   Ending retention time:   40.00
Area reject:        0                     One sample per   1.002 sec.
Amount injected:       1.00               Dilution factor:        1.00
Sample Weight:         1.000000
```

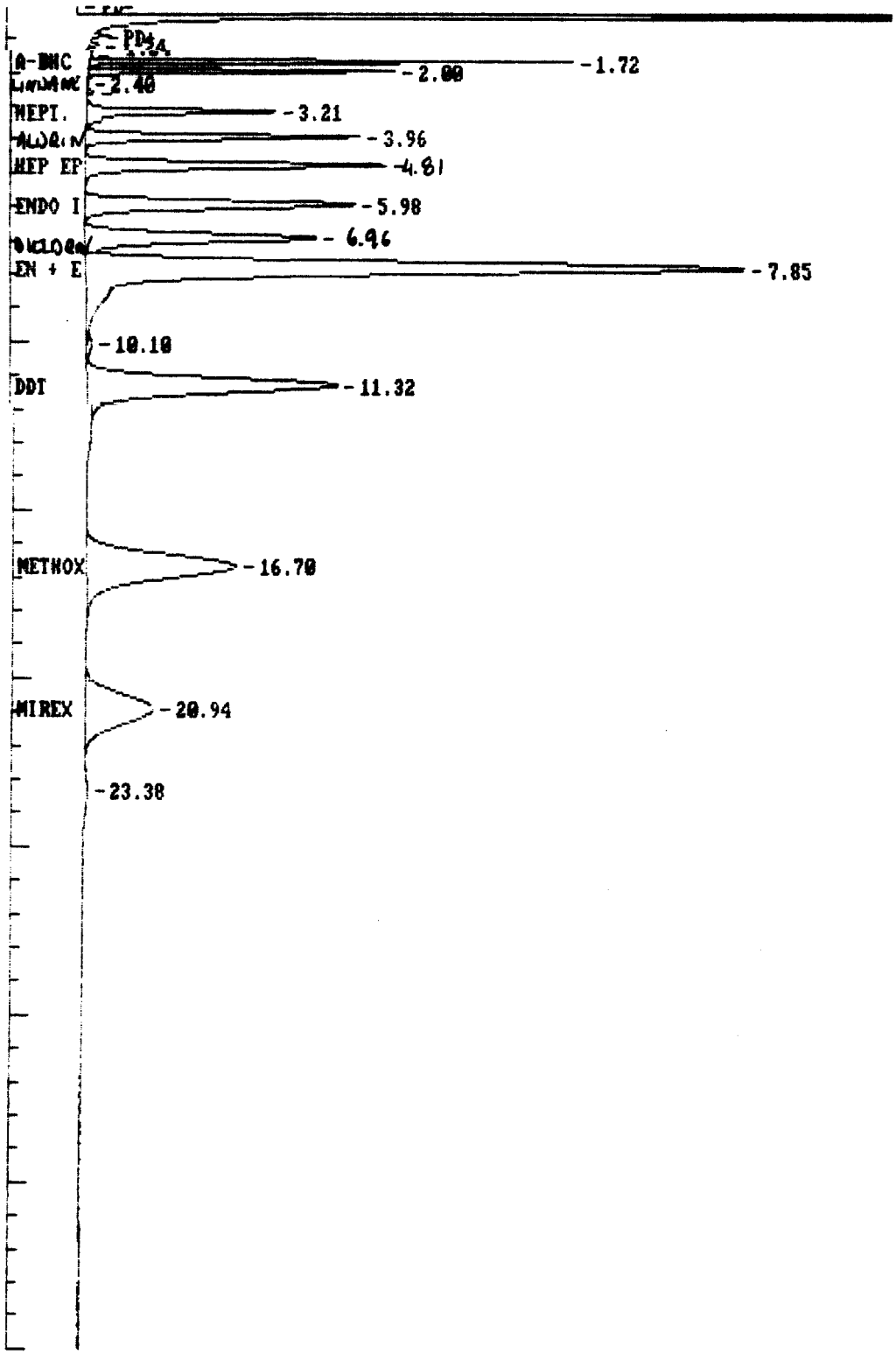
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.72	A-BHC	0.0058	1.0006%	564206	118528	4.8	2	16	.1441	1.0355E-08
4	2.00	LINDANE	0.0047	0.8030%	427117	75305	5.7	2	16	-.5412	1.0976E-08
7	3.21	HEPT.	0.0049	0.8470%	503100	46479	10.8	2	16	0	9.8297E-09
8	3.96	ALDRIN	0.0094	1.6018%	754527	67343	11.2	2	16	-.1475	1.2395E-08
9	4.81	HEP EPOX	0.0120	2.0468%	1044842	73872	14.1	1	16	0	1.1438E-08
10	5.98	ENDO I	0.0143	2.4542%	1137542	66135	17.2	2	16	0	1.2596E-08
11	6.96	DIELDRIN	0.0141	2.4181%	1112069	56686	19.6	2	16	.1557	1.2695E-08
12	7.85	EN + EN II	0.0531	9.0874%	4374359	161791	27.0	3	16	0	1.2129E-08
14	11.32	DDT	0.0282	4.8275%	2011972	61551	32.7	2	16	.0831	1.4009E-08
15	16.70	METHOXYCHLOR	0.0366	6.2649%	1861975	36802	50.6	1	16	0	1.9645E-08
16	20.94	MIREX	~~0.4008~~	68.6486%	1017331	16616	61.2	1	16	0	3.9398E-07

TOTAL AMOUNT = 0.5838

KM
11/5/90

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC8.ATB
Data File = W:1IC8.PTS Printed on 11-01-1990 at 09:45:32
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-01-1990 09:46:27 Version 4.1 **********

* Sample Name: PEST A L4 Data File: W:1IC9 *
* Date: 10-28-1990 19:24:40 Method: W:1PESTA 10-30-1990 14:55:36 # 155 *
* Interface: 0 Cycle#: 9 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONFIRM~~ *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

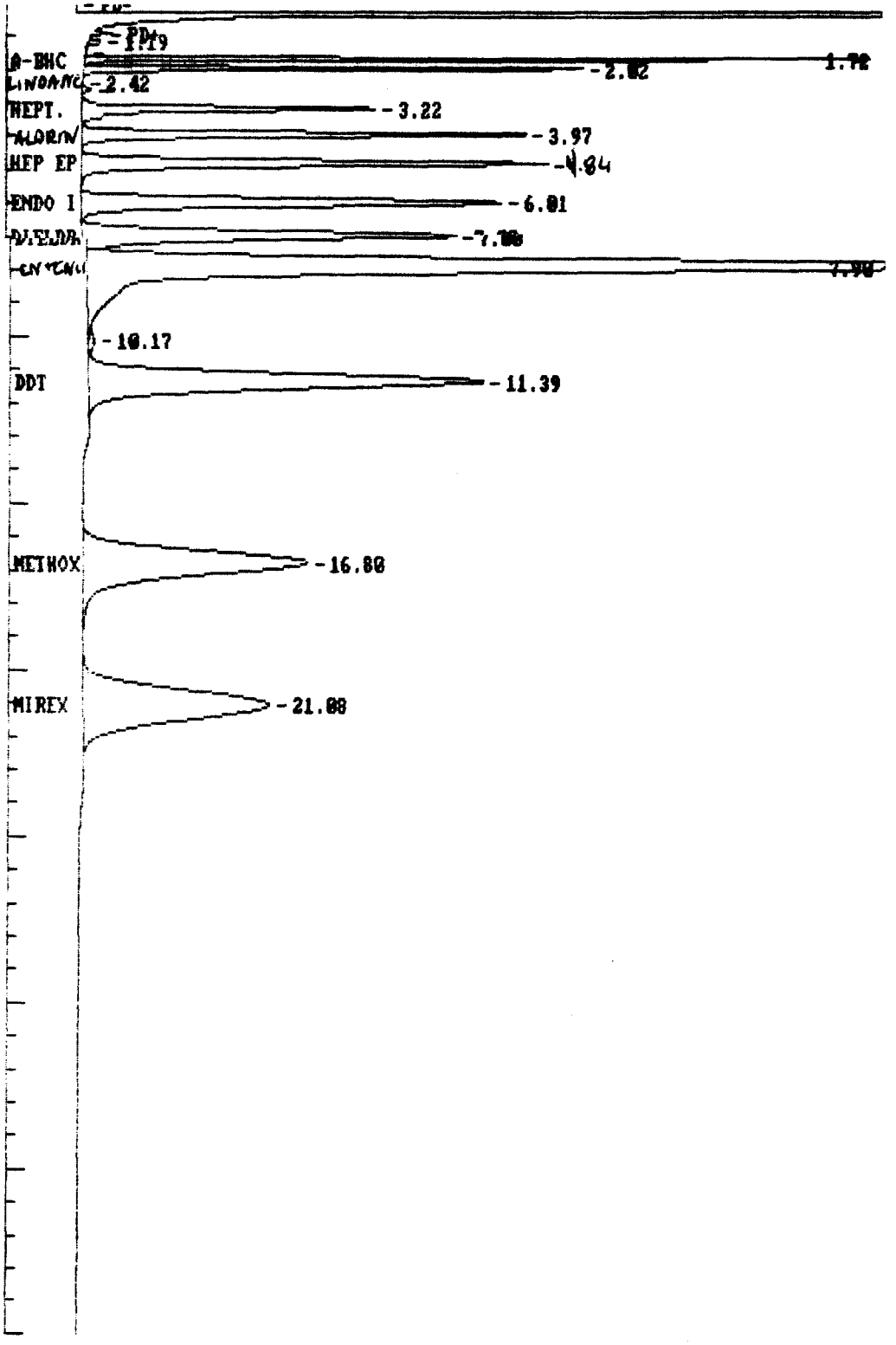
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.72	A-BHC	0.0092	0.6421%	935335	194832	4.8	2	16	-.4906	9.8309E-09
4	2.02	LINDANE	0.0073	0.5130%	700599	123802	5.7	2	16	-.3481	1.0485E-08
7	3.22	HEPT.	0.0074	0.5176%	758488	72904	10.4	2	16	0	9.7722E-09
8	3.97	ALDRIN	0.0146	1.0215%	1225761	110161	11.1	2	16	-.3618	1.1933E-08
9	4.84	HEP EPOX	0.0184	1.2855%	1631767	115665	14.1	2	16	.1301	1.1281E-08
10	6.01	ENDO I	0.0221	1.5431%	1786325	104174	17.1	2	16	0	1.2369E-08
11	7.00	DIELDRIN	0.0220	1.5344%	1780104	91728	19.4	2	16	0	1.2343E-08
12	7.90	EN + EN II	0.0814	5.6850%	6856914	251664	27.2	3	16	0	1.1872E-08
14	11.39	DDT	0.0440	3.0744%	3176218	98060	32.4	2	16	0	1.3860E-08
15	16.80	METHOXYCHLOR	0.0556	3.8933%	2855231	55743	51.2	2	16	0	1.9475E-08
16	21.08	MIREX	1.1499	80.3001%	2918622	46342	63.0	2	16	0	3.9398E-07

TOTAL AMOUNT = 1.4320

KM
11/5/90

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC9.ATB
Data File = W:1IC9.PTS Printed on 11-01-1990 at 09:46:52
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-01-1990 09:47:51 Version 4.1 **********

* Sample Name: PEST A L5 Data File: W:1IC10 *
* Date: 10-28-1990 20:08:50 Method: W:1PESTA 10-30-1990 14:55:36 # 155 *
* Interface: 0 Cycle#: 10 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

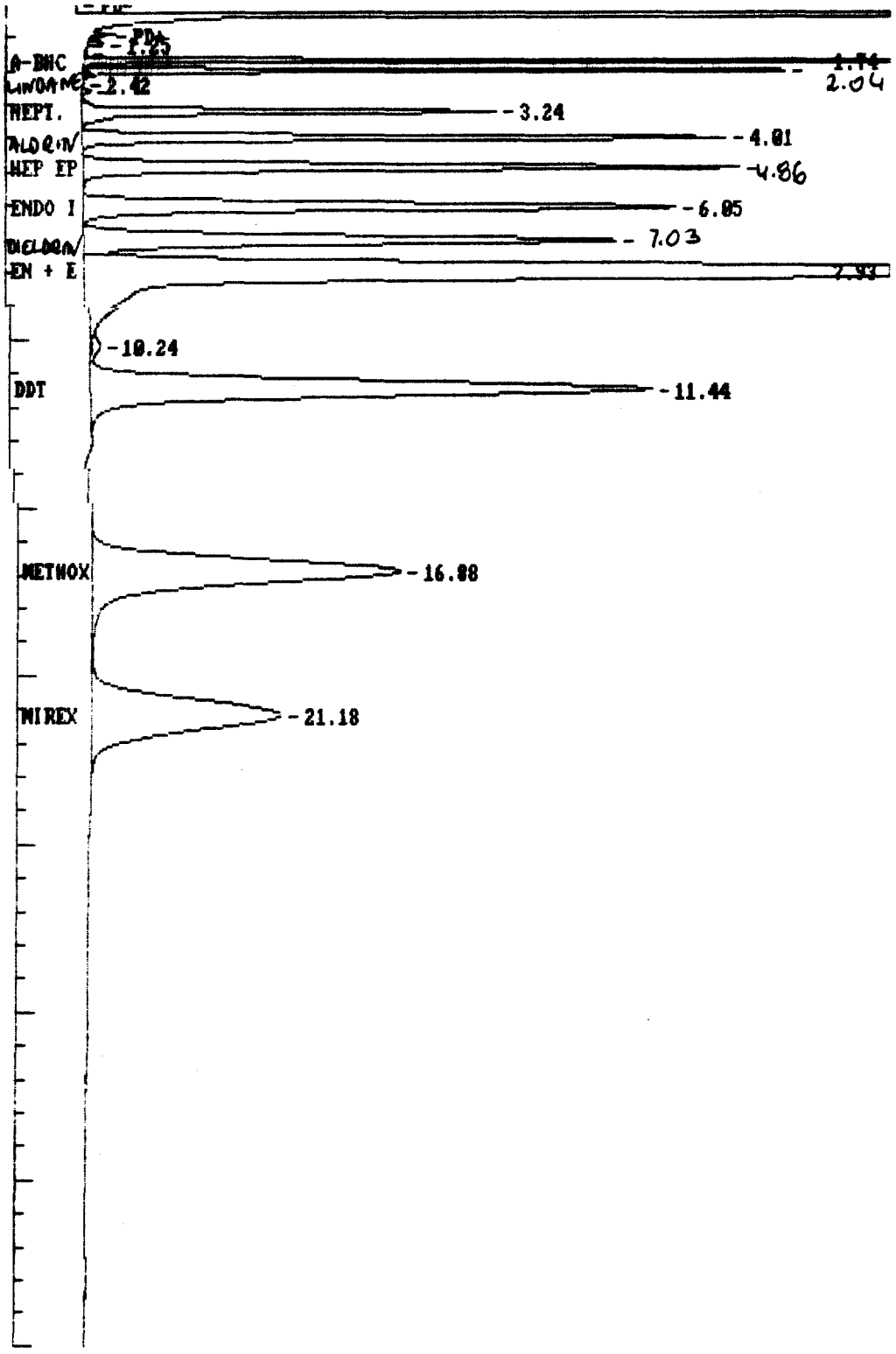
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.74	A-BHC	0.0128	0.8275%	1336888	274853	4.9	2	16	0	9.5918E-09
4	2.04	LINDANE	0.0103	0.6619%	1000082	172053	5.8	3	16	0	1.0255E-08
7	3.24	HEPT.	0.0101	0.6509%	1035354	101812	10.2	2	16	0	9.7418E-09
8	4.01	ALDRIN	0.0206	1.3269%	1755862	158128	11.1	2	16	0	1.1710E-08
9	4.86	HEP EPOX	0.0254	1.6418%	2271234	161239	14.1	2	16	0	1.1202E-08
10	6.05	ENDO I	0.0306	1.9736%	2495340	145434	17.2	2	16	0	1.2256E-08
11	7.03	DIELDRIN	0.0308	1.9858%	2528564	130900	19.3	2	16	0	1.2170E-08
12	7.93	EN + EN II	0.1117	7.2054%	9505859	345719	27.5	3	16	0	1.1746E-08
14	11.44	DDT	0.0615	3.9664%	4458215	137832	32.3	2	16	0	1.3787E-08
15	16.88	METHOXYCHLOR	0.0758	4.8907%	3908639	75675	51.7	2	16	0	1.9390E-08
16	21.18	MIREX	~~1.1602~~	74.8691%	2944822	46354	63.5	2	16	0	3.9398E-07

TOTAL AMOUNT = 1.5496

WM
11/5/90

SECONDARY COLUMN

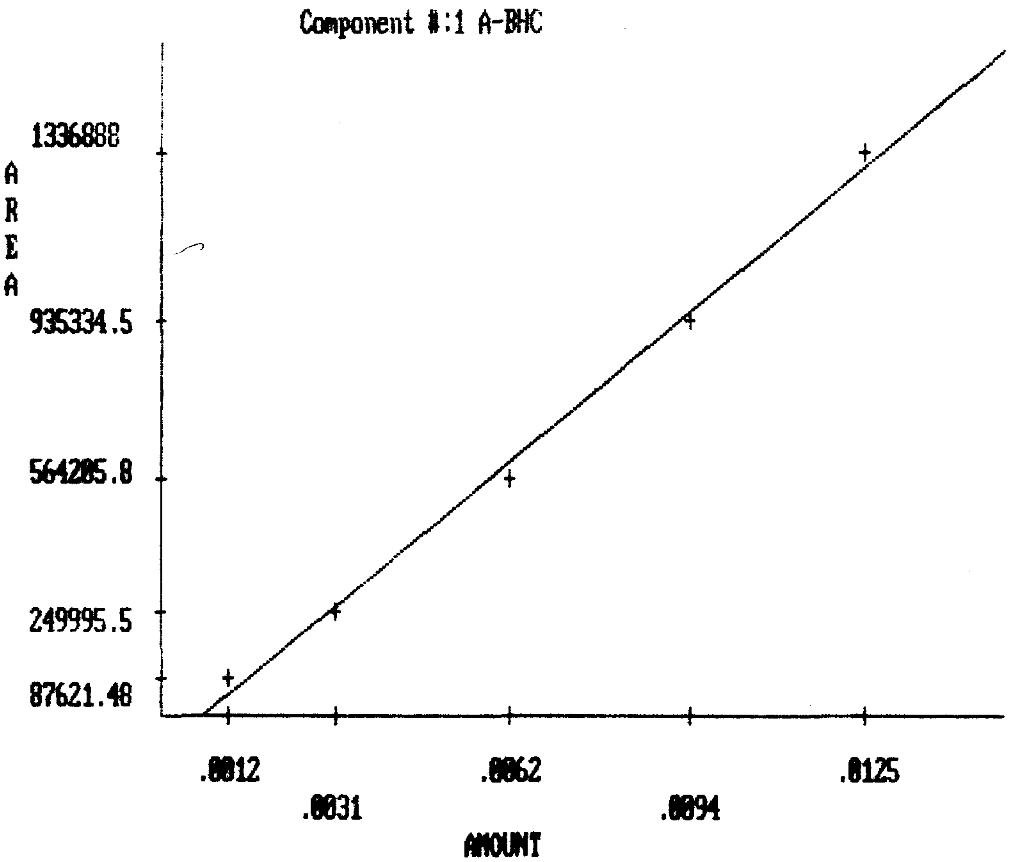
Areas, times, and heights stored in: W:1IC10.ATB
Data File = W:1IC10.PTS Printed on 11-01-1990 at 09:48:15
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



AM
11/5/90

SECONDARY COLUMN

Method W:1PESTA
Sample SINGLE PHASE COLUMN - PESTICIDE MIX A
Operator DKC
Run date 10-30-1990 14:55:36 version: 155
Printed on 10-30-1990 AT 14:59:50
Straight Line fit

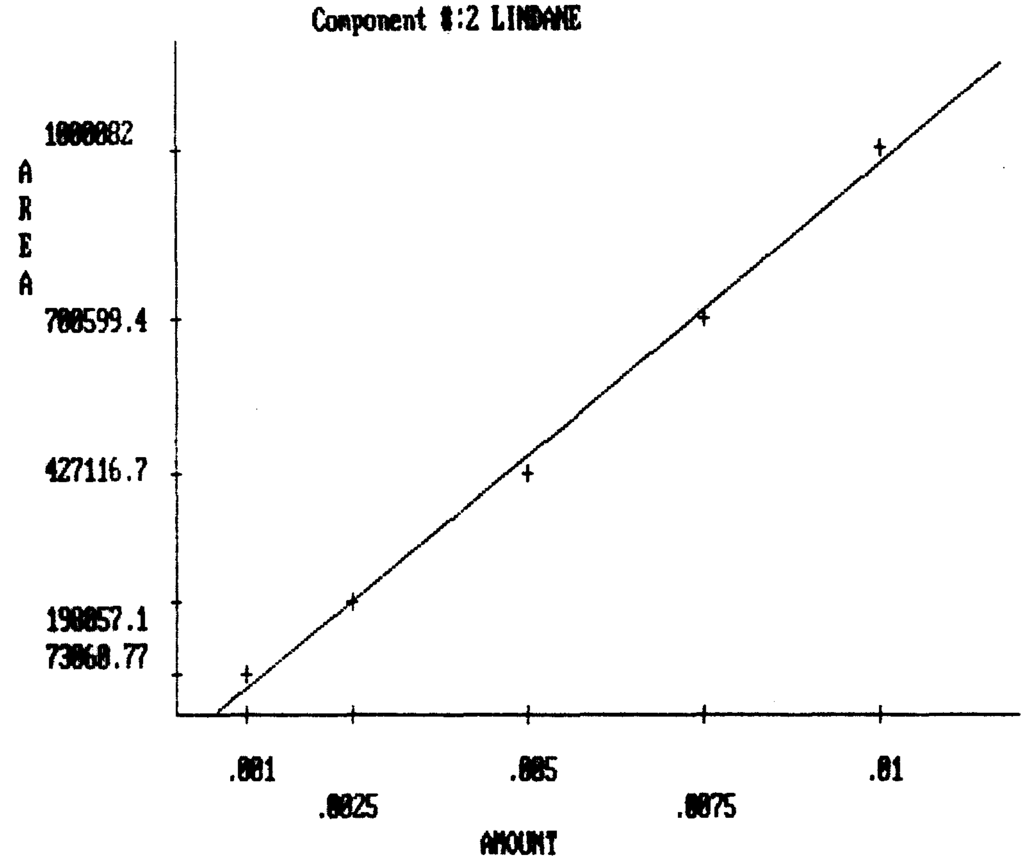


Component 1 = A-BHC
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0012	87621
2	0.0031	249996
3	0.0062	564206
4	0.0094	935335
5	0.0125	1336888

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 1.1068E+08 * Amount + -8.2408E+04
Amount = 9.0349E-09 * Area + 7.4455E-04
Correlation Coefficient = 0.9953

SECONDARY COLUMN



Component 2 = LINDANE
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0010	73061
2	0.0025	198057
3	0.0050	427117
4	0.0075	700599
5	0.0100	1000082

Y = SLOPE * X + INTERCEPT

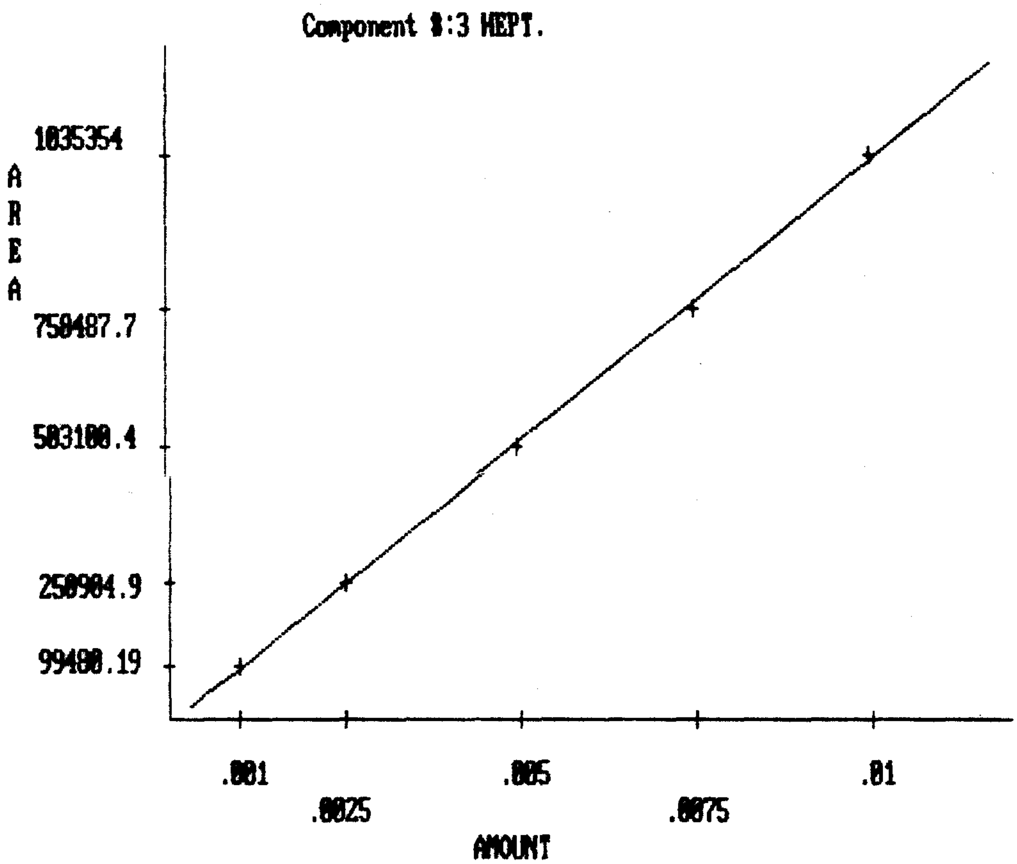
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 1.0290E+08 * Amount + -5.5313E+04

Amount = 9.7179E-09 * Area + 5.3753E-04

Correlation Coefficient = 0.9953

SECONDARY COLUMN



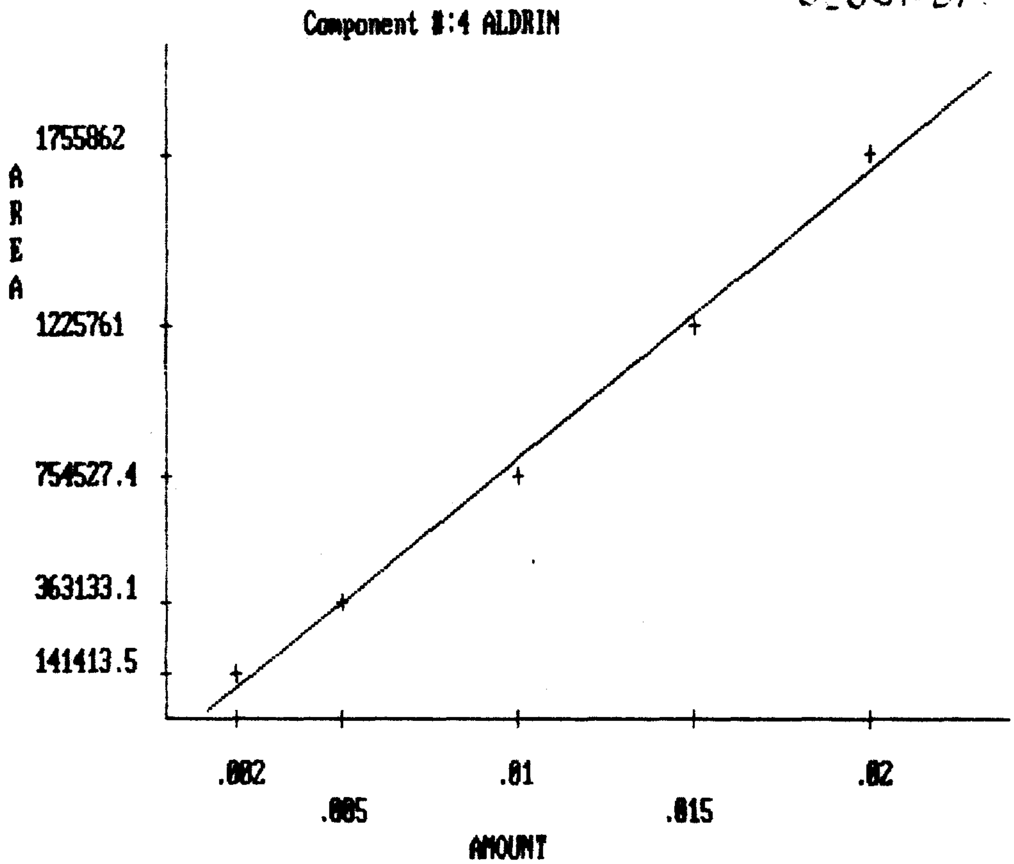
Component 3 = HEPT.
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0010	99480
2	0.0025	250905
3	0.0050	503100
4	0.0075	758488
5	0.0100	1035354

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 1.0353E+08 * Amount + -8.9093E+03
Amount = 9.6587E-09 * Area + 8.6052E-05
Correlation Coefficient = 0.9996

SECONDARY COLUMN

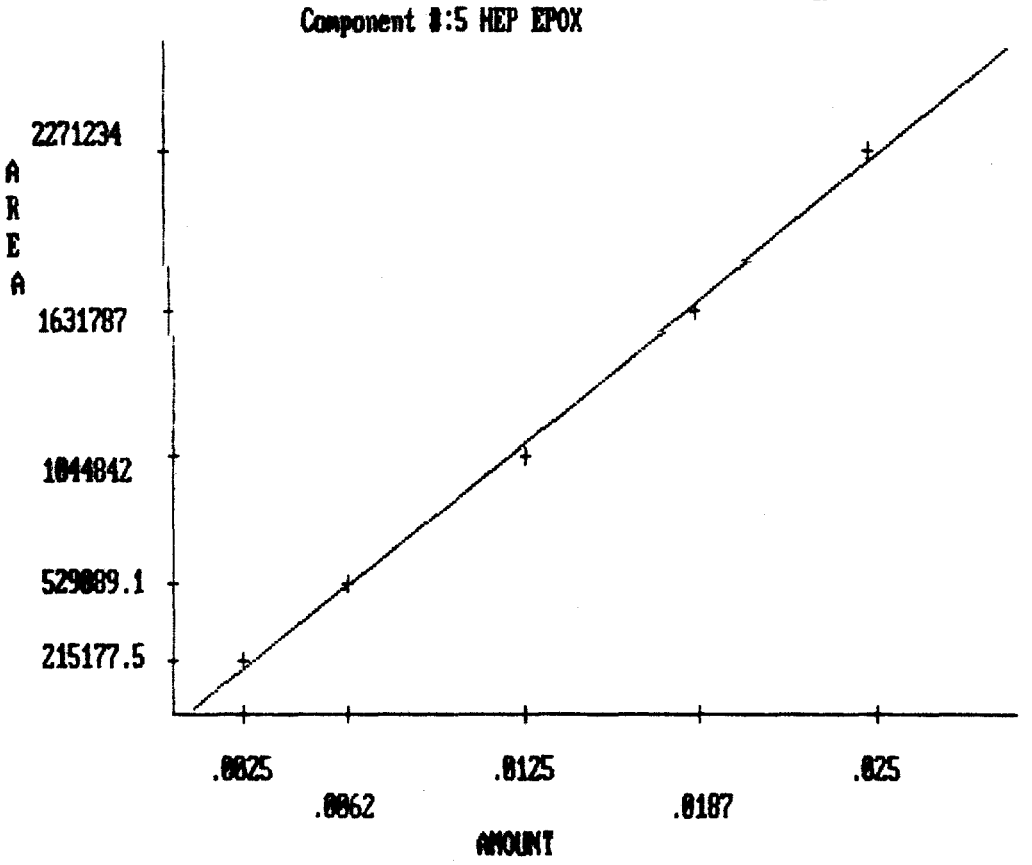


Component 4 = ALDRIN
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0020	141414
2	0.0050	363133
3	0.0100	754527
4	0.0150	1225761
5	0.0200	1755862

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 8.9325E+07 * Amount + -8.0845E+04
Amount = 1.1195E-08 * Area + 9.0506E-04
Correlation Coefficient = 0.9948

SECONDARY COLUMN



Component 5 = HEP EPOX
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0025	215178
2	0.0062	529089
3	0.0125	1044842
4	0.0187	1631787
5	0.0250	2271234

Y = SLOPE * X + INTERCEPT

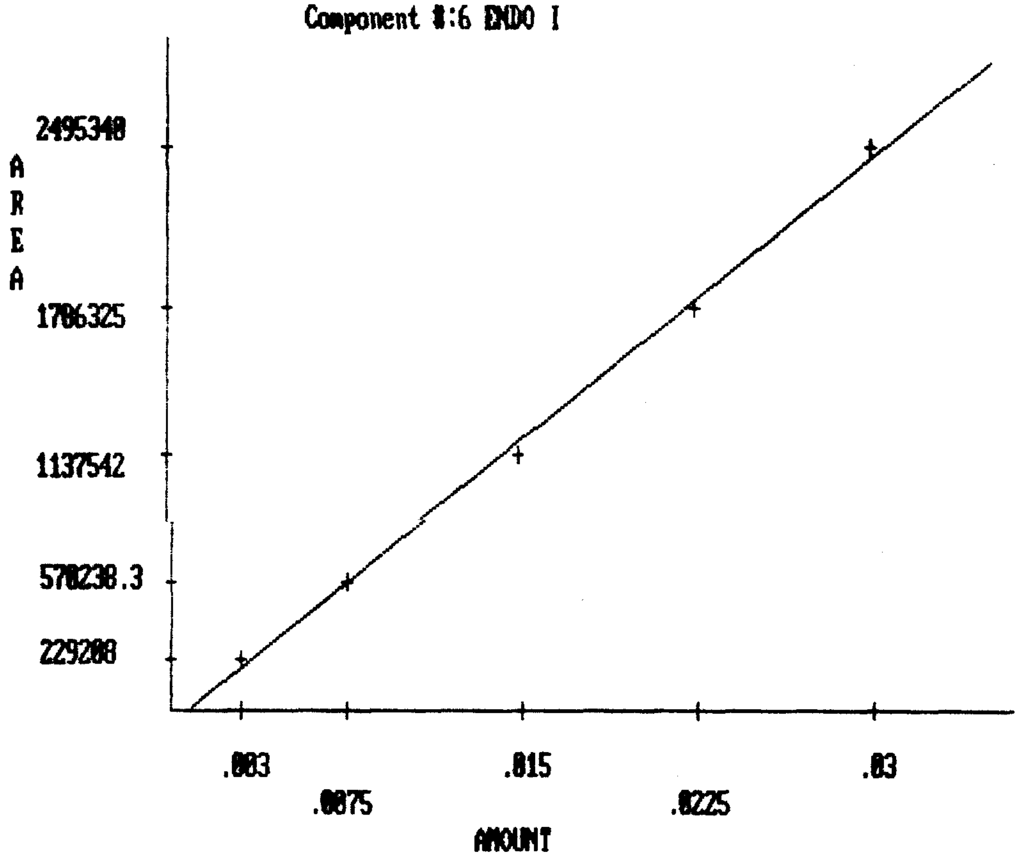
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 9.0899E+07 * Amount + -4.1449E+04

Amount = 1.1001E-08 * Area + 4.5599E-04

Correlation Coefficient = 0.9979

SECONDARY COLUMN



Component 6 = ENDO I

EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0030	229208
2	0.0075	570238
3	0.0150	1137542
4	0.0225	1786325
5	0.0300	2495340

Y = SLOPE * X + INTERCEPT

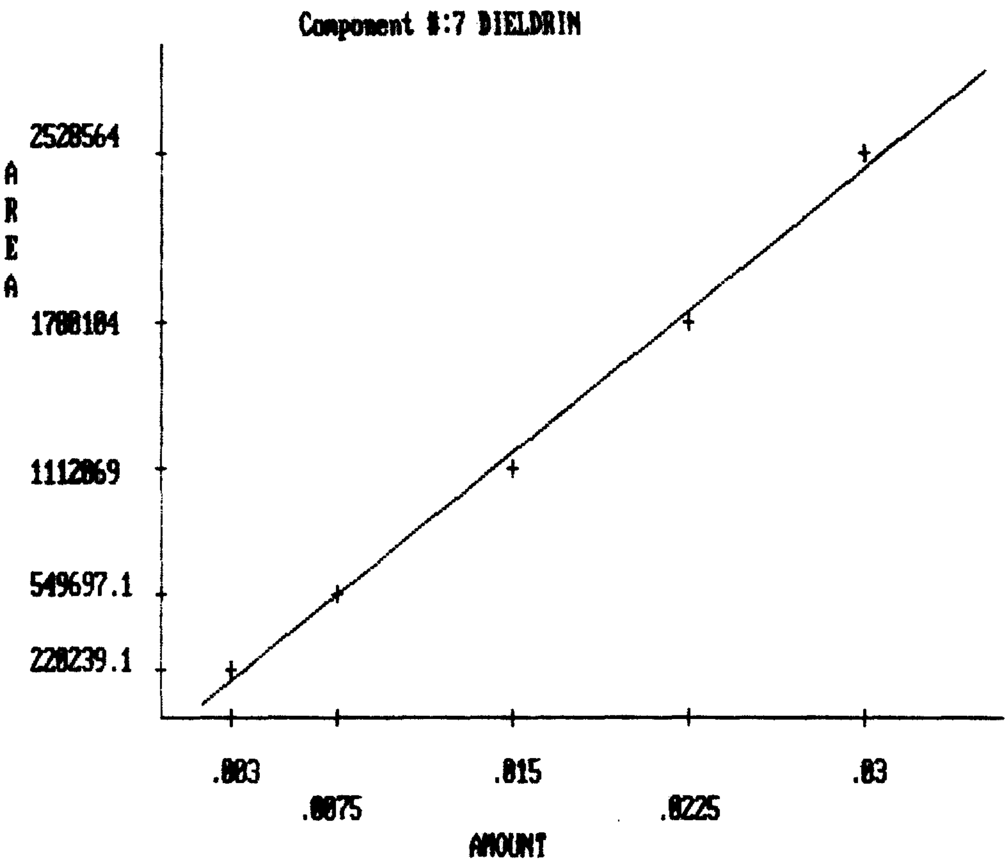
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 8.3529E+07 * Amount + -5.9328E+04

Amount = 1.1972E-08 * Area + 7.1027E-04

Correlation Coefficient = 0.9976

SECONDARY COLUMN

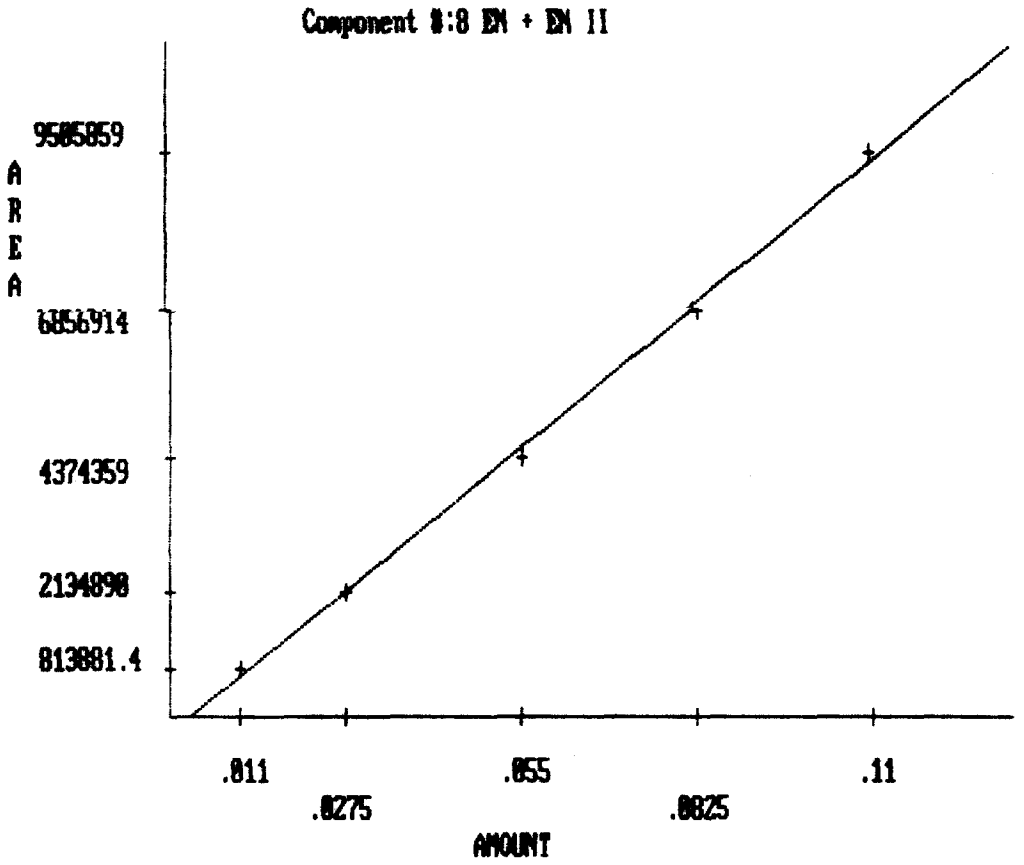


Component 7 = DIELDRIN
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0030	220239
2	0.0075	549697
3	0.0150	1112069
4	0.0225	1780104
5	0.0300	2528564

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 8.5052E+07 * Amount + -8.8670E+04
Amount = 1.1758E-08 * Area + 1.0425E-03
Correlation Coefficient = 0.9957

SECONDARY COLUMN



Component 8 = EN + EN II
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0110	813881
2	0.0275	2134890
3	0.0550	4374359
4	0.0825	6856914
5	0.1100	9505859

Y = SLOPE * X + INTERCEPT

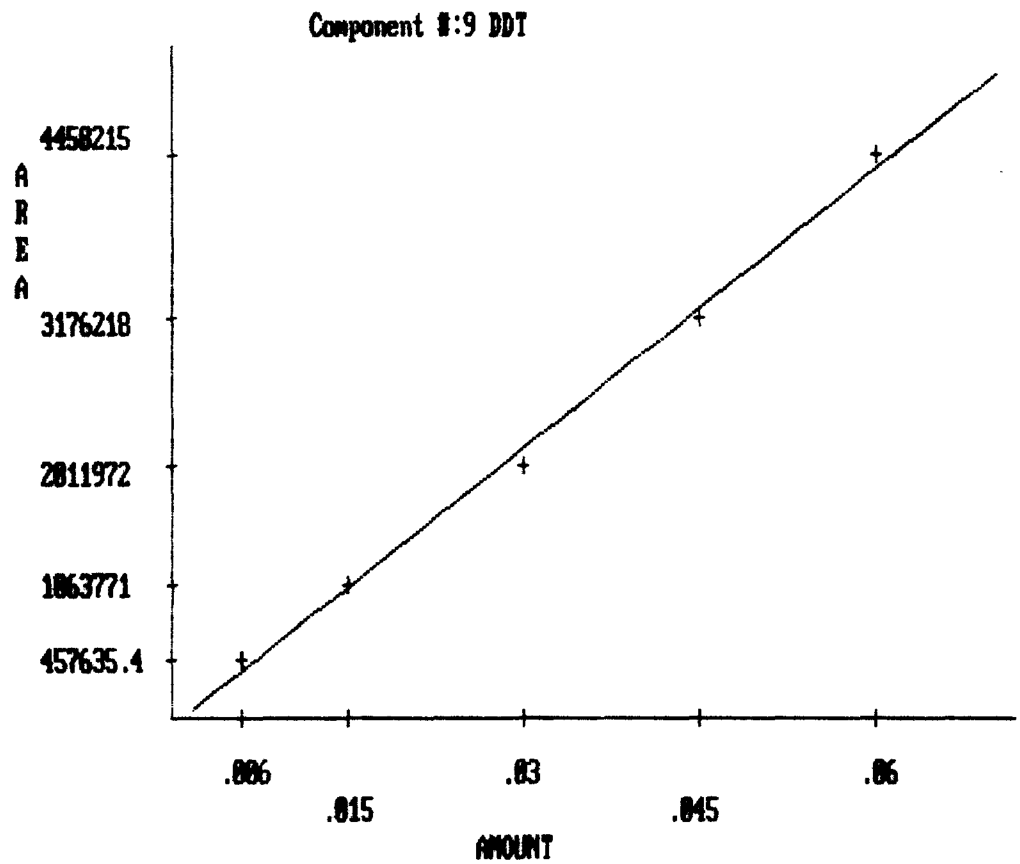
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 8.7569E+07 * Amount + -2.7176E+05

Amount = 1.1420E-08 * Area + 3.1034E-03

Correlation Coefficient = 0.9985

SECONDARY COLUMN

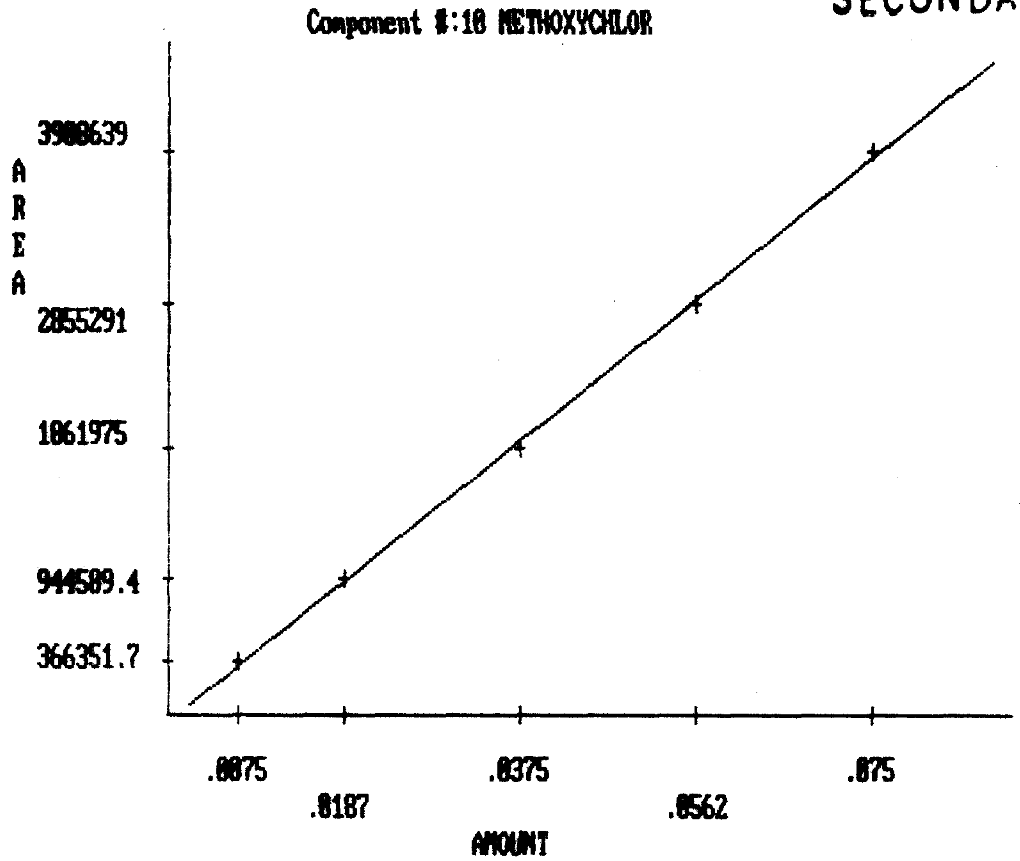


Component 9 = DDT
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0060	457635
2	0.0150	1063771
3	0.0300	2011972
4	0.0450	3176218
5	0.0600	4458215

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 7.3509E+07 * Amount + -5.9910E+04
Amount = 1.3604E-08 * Area + 8.1500E-04
Correlation Coefficient = 0.9961

SECONDARY COLUMN

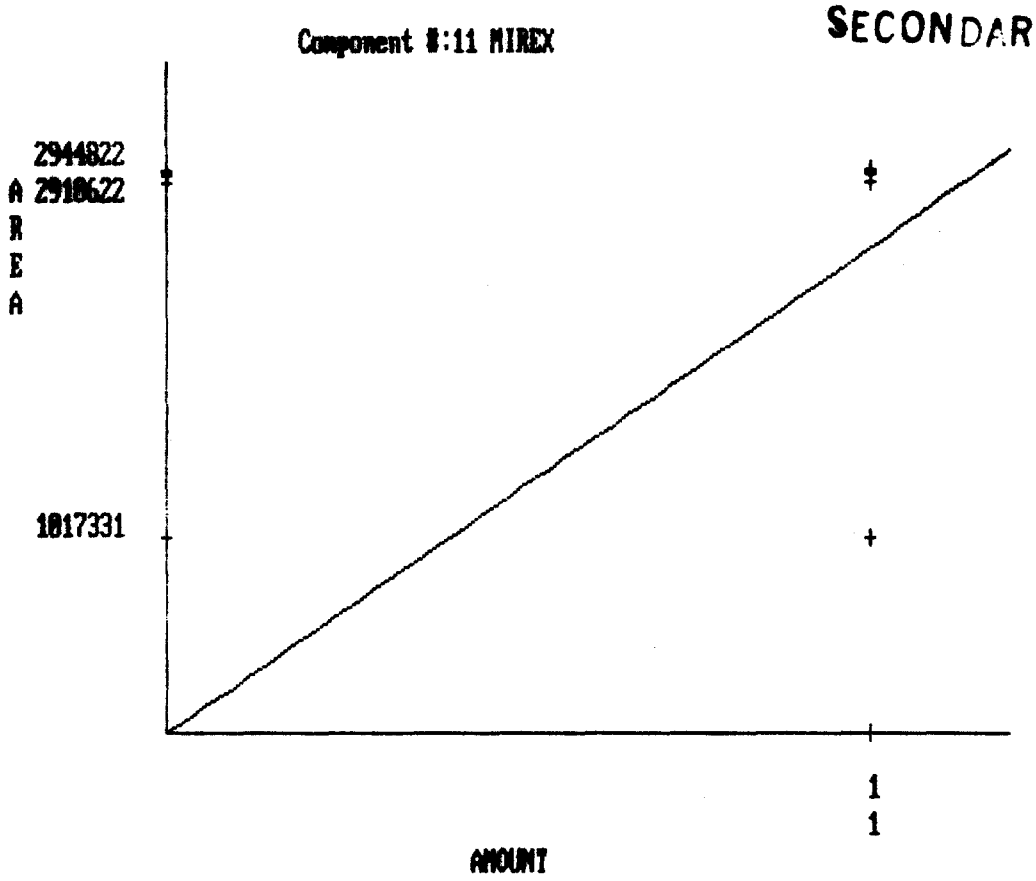


Component 10 = METHOXYCHLOR
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0075	366352
2	0.0187	944589
3	0.0375	1861975
4	0.0562	2855291
5	0.0750	3908639

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 5.2198E+07 * Amount + -4.7317E+04
Amount = 1.9158E-08 * Area + 9.0648E-04
Correlation Coefficient = 0.9993

SECONDARY COLUMN



Component 11 = MIREX
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	1.0000	2880309
2	1.0000	2930074
3	1.0000	1017331
4	1.0000	2918622
5	1.0000	2944822

Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 2.5382E+06 * Amount + 0.0000E+00

Amount = 3.9398E-07 * Area + 0.0000E+00

Correlation Coefficient = 0.0000

SECONDARY COLUMN

Output redirected to LPT1:
NEW TIMED EVENTS FROM W:1PESTA1

***** EXTERNAL STANDARD TABLE *****

********** 11-01-1990 11:23:18 Version 4.1 **********

* Sample Name: PEST A L3 #3 Data File: W:1MAG21 *
* Date: 11-01-1990 01:15:36 Method: W:1PESTA1 11-01-1990 10:58:37 # 156 *
* Interface: 0 Cycle#: 21 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

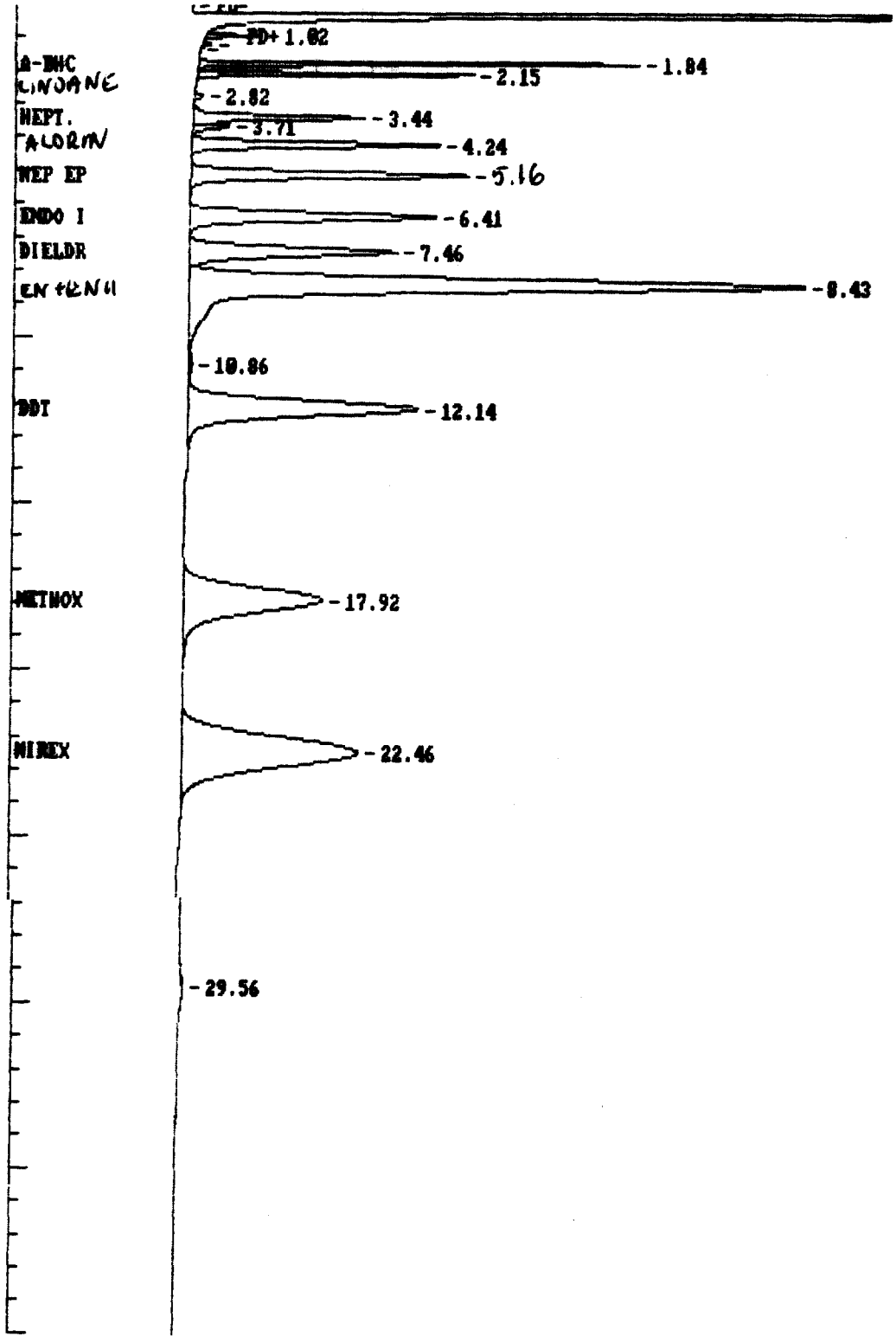
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	1.84	A-BHC	0.0055	0.4327%	528746	109445	4.8	2	17	-.2859	1.0443E-08
5	2.15	LINDANE	0.0043	0.3402%	391356	68671	5.7	2	17	-.3156	1.1091E-08
7	3.44	HEPT.	0.0043	0.3352%	433919	42672	10.2	2	17	.1065	9.8570E-09
9	4.24	ALDRIN	0.0088	0.6915%	707345	61641	11.5	2	17	-.2255	1.2475E-08
10	5.16	HEP EPOX	0.0114	0.8923%	993446	69057	14.4	1	17	.1065	1.1460E-08
11	6.41	ENDO I	0.0136	1.0636%	1074301	61308	17.5	2	17	0	1.2633E-08
12	7.46	DIELDRIN	0.0132	1.0342%	1033715	51701	20.0	2	17	0	1.2766E-08
13	8.43	EN + EN II	0.0512	4.0163%	4215893	152837	27.6	3	17	.2293	1.2156E-08
15	12.14	DDT	0.0266	2.0854%	1896077	57076	33.2	2	17	0	1.4034E-08
16	17.92	METHOXYCHLOR	0.0351	2.7519%	1785603	34525	51.7	1	17	0	1.9665E-08
17	22.46	MIREX	~~1.1019~~	86.3567%	2796888	43744	63.9	1	17	0	3.9398E-07

TOTAL AMOUNT = 1.2760

KM
11/5/90

SECONDARY COLUMN

ata File = W:1MAG21.PTS Printed on 11-01-1990 at 11:24:49
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/5/90

SECONDARY COLUMN
~~SECONDARY COLUMN~~ KM
11/5/90

***** EXTERNAL STANDARD TABLE *****

********** 11-03-1990 16:09:44 Version 4.1 **********

* Sample Name: PEST A L3#4 Data File: W:1MAG33 *
* Date: 11-01-1990 10:12:05 Method: W:1PESTA1 11-01-1990 10:58:37 # 156*
* Interface: 0 Cycle#: 33 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

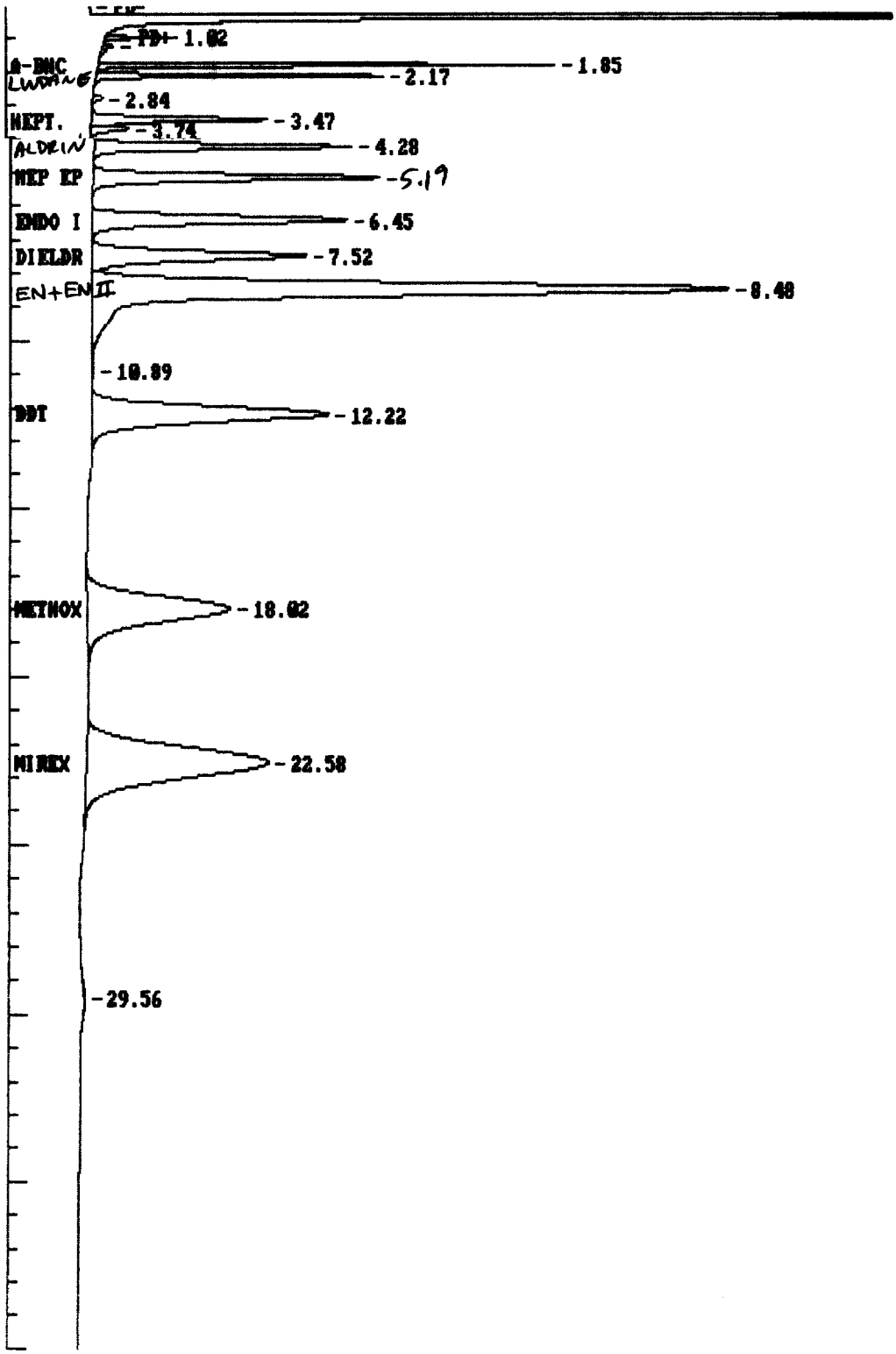
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.85	A-BHC	0.0056	0.4303%	542555	112175	4.8	2	16	0	1.0407E-08
4	2.17	LINDANE	0.0045	0.3412%	405454	70411	5.8	2	16	0	1.1044E-08
6	3.47	HEPT.	0.0043	0.3303%	439853	43280	10.2	2	16	.5551	9.8543E-09
8	4.28	ALDRIN	0.0091	0.6903%	728363	63123	11.5	2	16	0	1.2438E-08
9	5.19	HEP EPOX	0.0116	0.8870%	1016559	70234	14.5	1	16	.2328	1.1450E-08
10	6.45	ENDO I	0.0139	1.0603%	1102838	62544	17.6	2	16	0	1.2616E-08
11	7.51	DIELDRIN	0.0135	1.0273%	1057854	52576	20.1	2	16	.2473	1.2743E-08
12	8.48	EN + EN II	0.0525	3.9992%	4323851	156112	27.7	3	16	.3027	1.2137E-08
14	12.22	DDT	0.0270	2.0600%	1927242	58092	33.2	2	16	.2220	1.4027E-08
15	18.02	METHOXYCHLOR	0.0356	2.7106%	1809337	35061	51.6	1	16	0	1.9659E-08
16	22.58	MIREX	~~1.1346~~	86.4635%	2879919	44649	64.5	1	16	0	3.9398E-07

TOTAL AMOUNT = 1.3122

KM
11/5/90

SECONDARY COLUMN

Data File = W:1MAG33.PTS Printed on 11-03-1990 at 16:10:05
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



DKC
11/9/90

11/6/90

SECONDARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 11:26:06 Version 4.1 **********

* Sample Name: PEST A L3 #5 Data File: W:1MAG42 *
* Date: 11-01-1990 16:40:57 Method: W:1PESTA 10-30-1990 14:55:36 # 155 *
* Interface: 0 Cycle#: 42 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

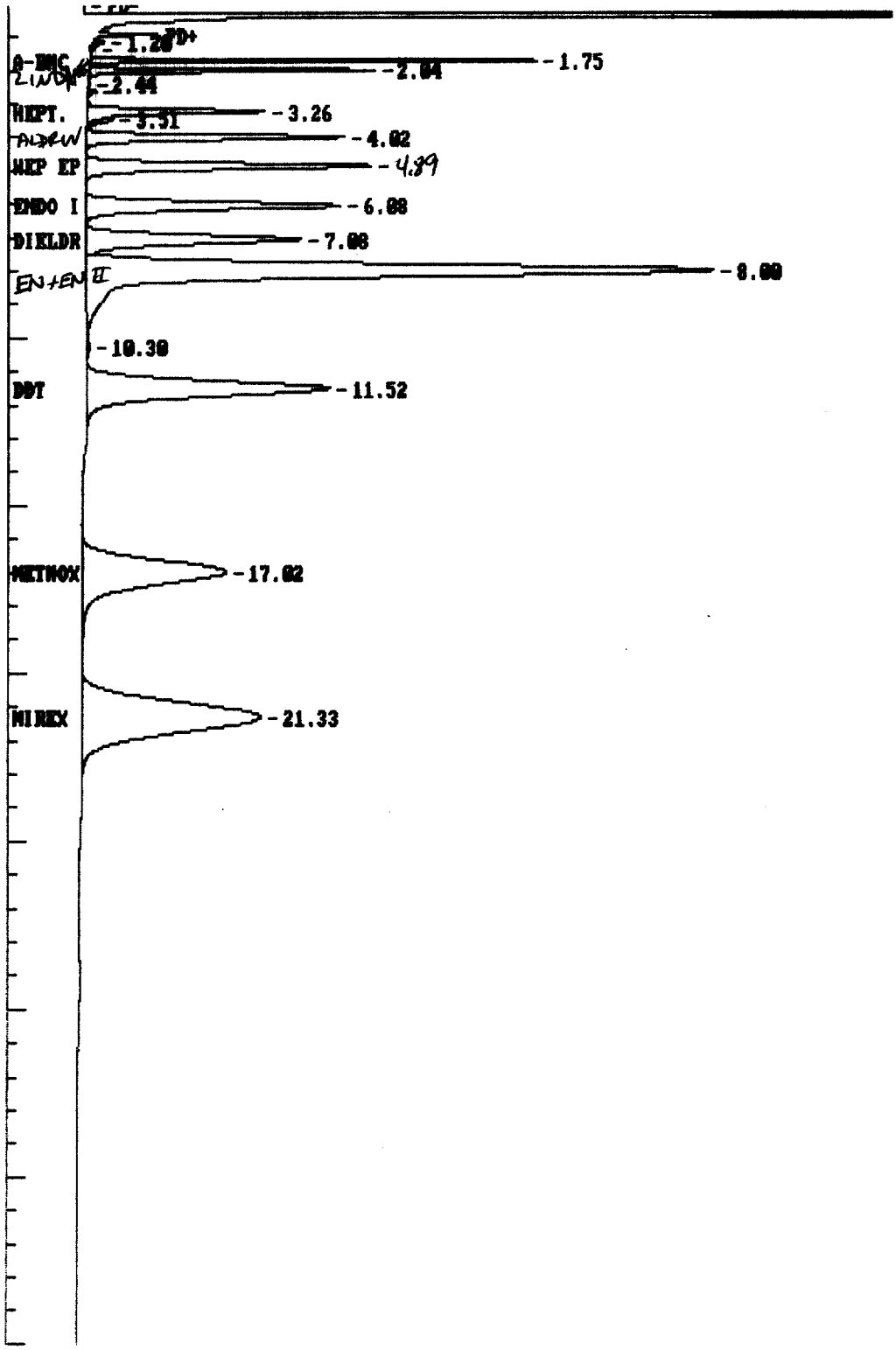
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.75	A-BHC	0.0055	0.4401%	531401	109692	4.8	2	17	.2499	1.0436E-08
4	2.04	LINDANE	0.0044	0.3520%	401144	70223	5.7	2	17	-.7047	1.1058E-08
7	3.26	HEPT.	0.0045	0.3602%	461004	43849	10.5	3	17	-.1929	9.8454E-09
9	4.02	ALDRIN	0.0089	0.7082%	716369	63433	11.3	2	17	-.2910	1.2458E-08
10	4.89	HEP EPOX	0.0114	0.9061%	996470	70187	14.2	1	17	0	1.1459E-08
11	6.08	ENDO I	0.0136	1.0817%	1079242	62687	17.2	2	17	-.1561	1.2630E-08
12	7.08	DIELDRIN	0.0133	1.0551%	1042194	53037	19.7	2	17	0	1.2758E-08
13	8.00	EN + EN II	0.0508	4.0298%	4175057	154311	27.1	3	17	.1313	1.2163E-08
15	11.52	DDT	0.0275	2.1797%	1959152	59725	32.8	2	17	0	1.4020E-08
16	17.02	METHOXYCHLOR	0.0355	2.8155%	1804631	35390	51.0	1	17	0	1.9660E-08
17	21.33	MIREX	~~1.0846~~	86.0715%	2753009	43800	62.9	1	17	0	3.9398E-07

TOTAL AMOUNT = 1.2601

SO 11/6/90

SECONDARY COLUMN

Data File = W:1MAG42.PTS Printed on 11-02-1990 at 11:26:29
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



DKC
11/9/90

11/6/90

PRIMARY COLUMN

Output redirected to LPT1:

***** EXTERNAL STANDARD TABLE *****

********** 10-31-1990 16:12:32 Version 4.1 **********

* Sample Name: PEST B L1 Data File: W:2IC12 *

* Date: 10-28-1990 21:37:09 Method: W:2PESTBR 10-31-1990 14:25:13 # 211*

* Interface: 0 Cycle#: 12 Operator DKC Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *

* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	2.99	B-BHC	0.0024	0.2147%	132875	17270	7.7	2	14	.0532	1.8182E-08
4	3.49	D-BHC	0.0024	0.2099%	174076	18033	9.7	3	14	.2905	1.3568E-08
8	6.61	G-CHLORDANE	0.0024	0.2104%	205906	12563	16.4	2	14	.2117	1.1501E-08
9	7.21	A-CHLORDANE	0.0024	0.2107%	217638	11916	18.3	2	14	.1079	1.0896E-08
10	8.63	DDE	0.0031	0.2750%	190493	9156	20.8	1	14	0	1.6249E-08
11	13.19	DDD	0.0052	0.4598%	291780	9537	30.6	1	14	0	1.7736E-08
12	17.32	END ALDEHYDE	0.0055	0.4904%	252725	5930	42.6	1	14	0	2.1835E-08
13	21.11	END SULFATE	0.0080	0.7079%	569253	11360	50.1	1	14	0	1.3995E-08
14	24.13	MIREX	~~1.0860~~	96.4995%	2304752	38990	59.1	1	14	0	4.7120E-07
15	28.56	END KETONE	0.0081	0.7216%	623828	9639	64.7	1	14	0	1.3018E-08

TOTAL AMOUNT = 1.1254

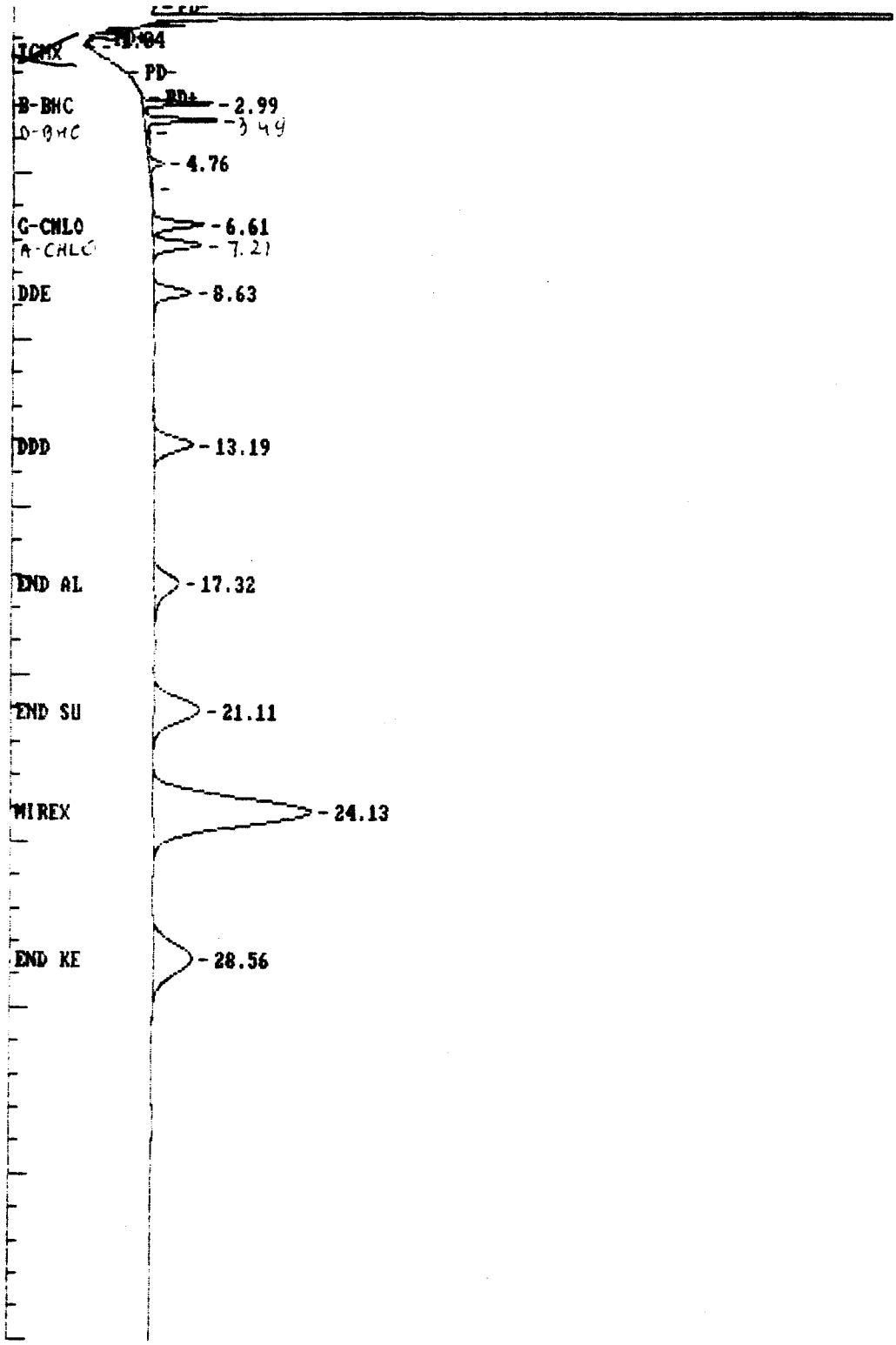
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.40	MIREX

KM
11/5/90

PRIMARY COLUMN

Areas, times, and heights stored in: W:2IC12.ATB
Data File = W:2IC12.PTS Printed on 10-31-1990 at 16:12:54
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/5/90

PRIMARY COLUMN

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*****   EXTERNAL STANDARD TABLE   *****
******************** 10-31-1990 16:13:52 Version 4.1 **********************
* Sample Name: PEST B L2                          Data File: W:2IC13       *
* Date: 10-28-1990 22:21:16 Method: W:2PESTBR  10-31-1990 14:25:13  #  211*
* Interface: 0   Cycle#:  13   Operator DKC Channel#: 1    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*             Detector 0: ECD ~~QUANT~~ CONF        Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: ~~PRIMARY COLUMN~~                          ~~PERFORMANCE EVA.~~  *
*************************************************************************
Starting Delay:    0.00                          Ending retention time:    40.00
Area reject:          0                          One sample per    1.002 sec.
Amount injected:        1.00                     Dilution factor:        1.00
Sample Weight:          1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	2.99	B-BHC	0.0062	0.5300%	300410	40517	7.4	2	16	0	2.0798E-08
5	3.49	D-BHC	0.0048	0.4064%	361066	43542	8.3	3	16	.2211	1.3268E-08
8	6.61	G-CHLORDANE	0.0067	0.5654%	537479	30992	17.3	2	16	.1424	1.2402E-08
9	7.21	A-CHLORDANE	0.0065	0.5527%	559932	29297	19.1	2	16	0	1.1638E-08
10	8.65	DDE	0.0076	0.6452%	485823	22770	21.3	2	16	.1135	1.5655E-08
13	13.19	DDD	0.0125	1.0585%	724174	23465	30.9	1	16	.0139	1.7231E-08
14	17.33	END ALDEHYDE	0.0117	0.9932%	626065	14471	43.3	1	16	0	1.8702E-08
15	21.13	END SULFATE	0.0198	1.6809%	1330238	26682	49.9	1	16	0	1.4897E-08
16	24.15	MIREX	~~1.0828~~	91.8527%	2298062	38923	59.0	1	16	0	4.7120E-07
17	28.57	END KETONE	0.0202	1.7150%	1561238	23823	65.5	1	16	-.0345	1.2950E-08

TOTAL AMOUNT = 1.1789

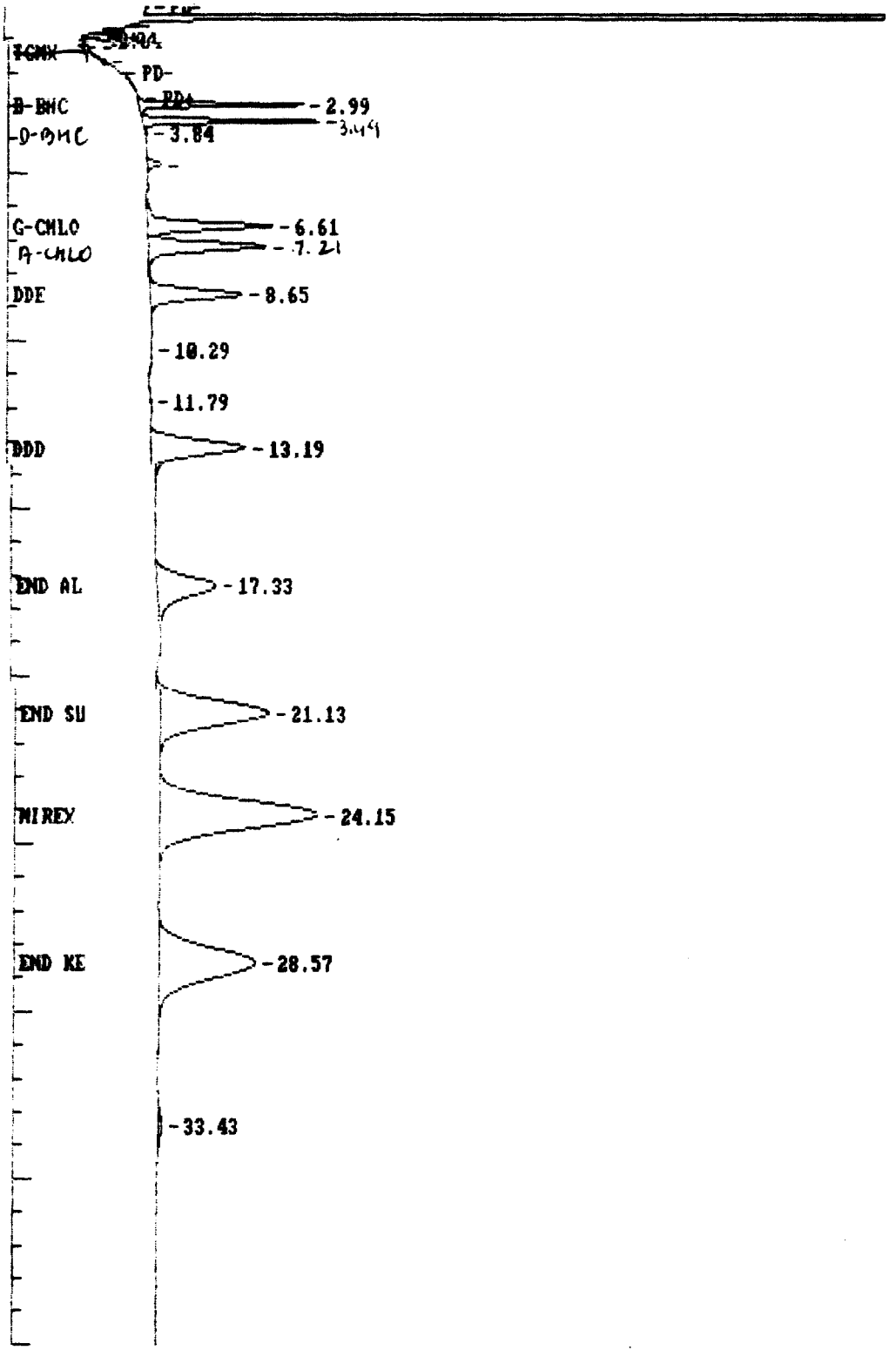
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.40	MIREX

KCM
11/5/90

PRIMARY COLUMN

Areas, times, and heights stored in: W:2IC13.ATB
Data File = W:2IC13.PTS Printed on 10-31-1990 at 16:14:15
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/5/90

PRIMARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 10-31-1990 16:15:15 Version 4.1 **********

* Sample Name: PEST B L3 Data File: W:2IC14 *

* Date: 10-28-1990 23:05:23 Method: W:2PESTBR 10-31-1990 14:25:13 # 211*

* Interface: 0 Cycle#: 14 Operator DKC Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONF~~QUANT *

* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	2.99	B-BHC	0.0125	1.6184%	571832	76418	7.5	2	18	-.1540	2.1783E-08
5	3.49	D-BHC	0.0096	1.2507%	733336	88724	8.3	3	18	0	1.3126E-08
10	6.61	G-CHLORDANE	0.0121	1.5685%	954564	58968	16.2	2	18	0	1.2646E-08
11	7.23	A-CHLORDANE	0.0122	1.5677%	1030921	55799	18.5	2	18	.1318	1.1853E-08
12	8.65	DDE	0.0146	1.9000%	945276	45298	20.9	2	18	-.0246	1.5470E-08
14	13.21	DDD	0.0246	3.1900%	1438980	46364	31.0	1	18	0	1.7062E-08
15	17.37	END ALDEHYDE	0.0250	3.2541%	1430376	29060	49.2	3	18	0	1.7509E-08
17	21.16	END SULFATE	0.0400	5.2002%	2627971	51419	51.1	2	18	0	1.5230E-08
18	24.18	MIREX	~~6.5777~~	75.3200%	1230254	20863	59.0	2	18	0	4.7120E-07
19	28.64	END KETONE	0.0393	5.1103%	3042351	46568	65.3	1	18	0	1.2928E-08

TOTAL AMOUNT = 0.7696

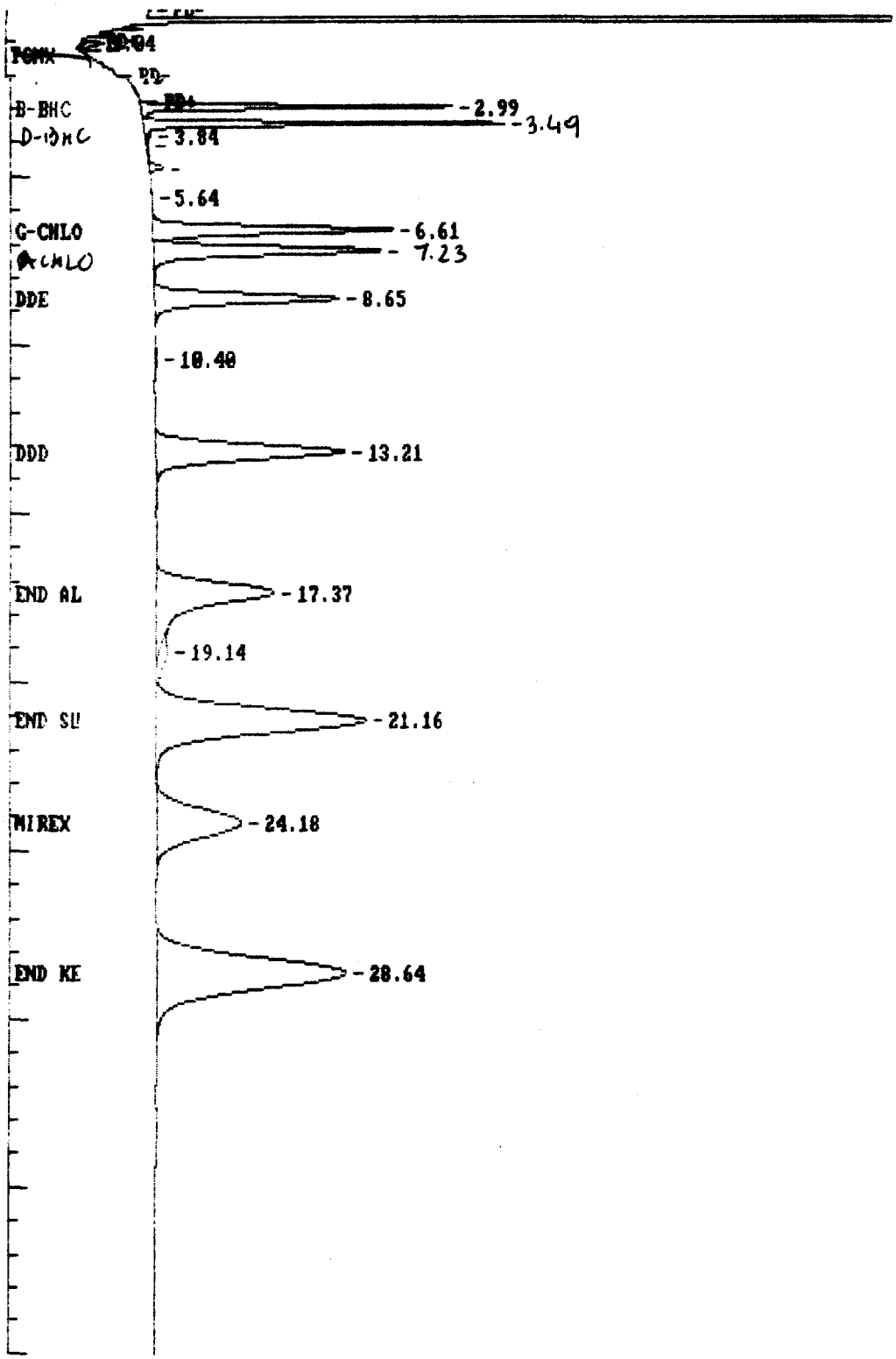
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.40	MIREX

KM
11/5/90

PRIMARY COLUMN

Areas. times. and heights stored in: W:2IC14.ATB
Data File = W:2IC14.PTS Printed on 10-31-1990 at 16:15:38
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/5/90

PRIMARY COLUMN

****** EXTERNAL STANDARD TABLE ******

********** 10-31-1990 16:16:41 Version 4.1 **********

* Sample Name: PEST B L4 Data File: W:2IC15 *
* Date: 10-28-1990 23:49:30 Method: W:2PESTBR 10-31-1990 14:25:13 # 211*
* Interface: 0 Cycle#: 15 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/2 ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	3.02	B-BHC	0.0189	1.3365%	855521	112531	7.6	2	18	0	2.2144E-08
5	3.52	D-BHC	0.0151	1.0635%	1152775	140313	8.2	3	18	0	1.3076E-08
10	6.68	G-CHLORDANE	0.0186	1.3144%	1460688	90230	16.2	2	18	0	1.2755E-08
11	7.30	A-CHLORDANE	0.0188	1.3244%	1572028	84773	18.5	2	18	0	1.1941E-08
12	8.73	DDE	0.0226	1.5940%	1467167	70427	20.8	2	18	0	1.5400E-08
14	13.34	DDD	0.0378	2.6690%	2225199	71088	31.3	1	18	0	1.7001E-08
15	17.53	END ALDEHYDE	0.0379	2.6751%	2206776	44024	50.1	3	18	0	1.7183E-08
17	21.36	END SULFATE	0.0606	4.2772%	3951190	76879	51.4	2	18	0	1.5344E-08
18	24.43	MIREX	~~1.1266~~	79.4954%	2391350	39722	60.2	2	18	0	4.7120E-07
19	28.91	END KETONE	0.0602	4.2505%	4663291	70996	65.7	1	18	-.0412	1.2920E-08

TOTAL AMOUNT = 1.4174

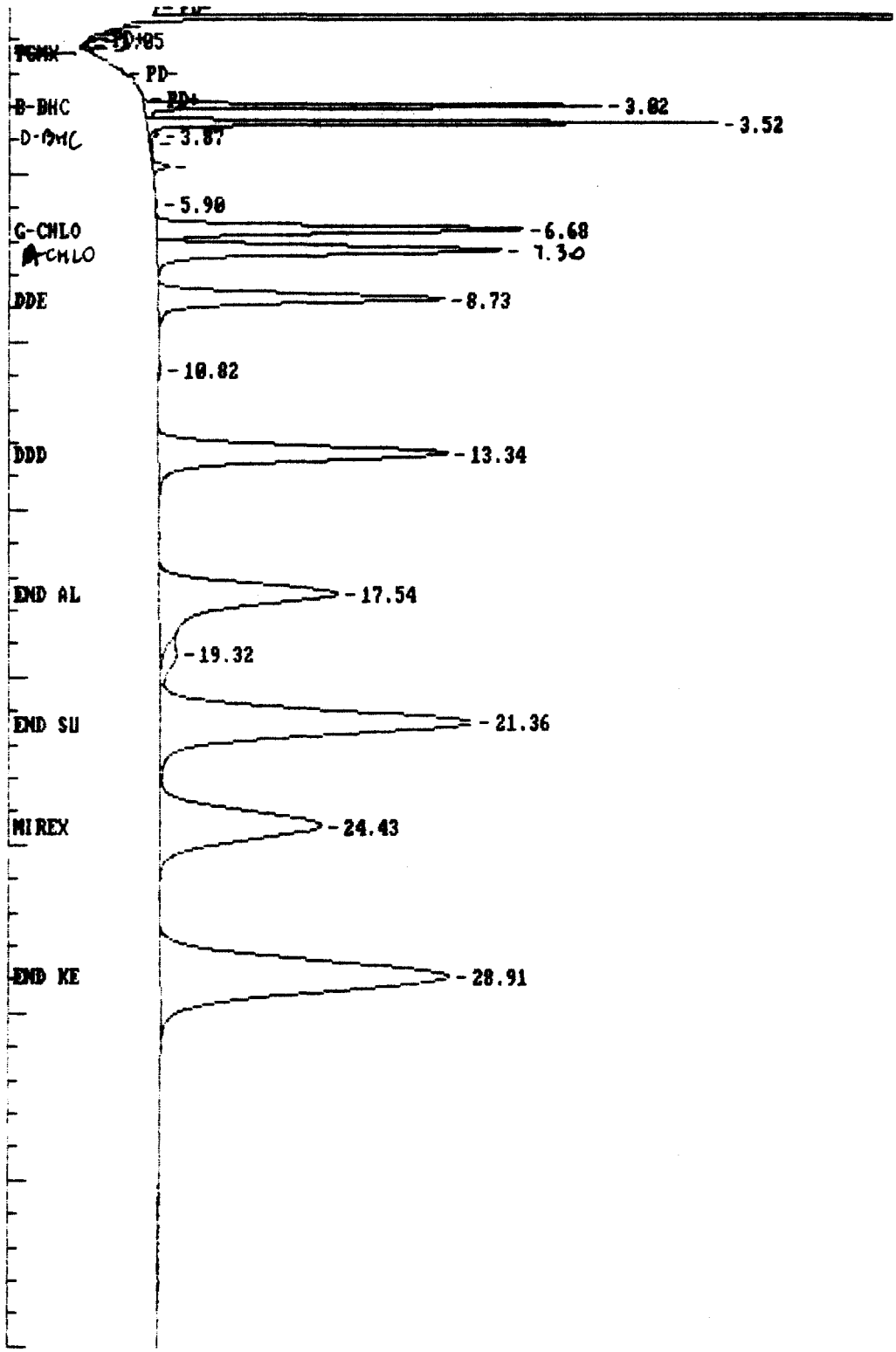
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.41	MIREX

WT
11/5/90

PRIMARY COLUMN

Areas, times, and heights stored in: W:2IC15.ATB
Data File = W:2IC15.PTS Printed on 10-31-1990 at 16:17:04
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



WM
11/5/90

PRIMARY COLUMN

```
*****   EXTERNAL STANDARD TABLE   *****
******************** 10-31-1990 16:18:10 Version 4.1 ********************
* Sample Name: PEST B L5                          Data File: W:2IC16      *
* Date: 10-29-1990 00:33:40 Method: W:2PESTBR  10-31-1990 14:25:13  #  211*
* Interface: 0   Cycle#:  16   Operator DKC Channel#: 1    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF      Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: ~~PRIMARY COLUMN~~                ~~PRIMARY COLUMN~~  *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    40.00
Area reject:        0                      One sample per   1.002 sec.
Amount injected:        1.00               Dilution factor:        1.00
Sample Weight:          1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	3.04	B-BHC	0.0248	1.6454%	1113070	146167	7.6	2	17	0	2.2313E-08
5	3.54	D-BHC	0.0201	1.3349%	1543400	186927	8.3	3	17	0	1.3054E-08
9	6.71	G-CHLORDANE	0.0252	1.6672%	1964676	119682	16.4	2	17	0	1.2808E-08
10	7.33	A-CHLORDANE	0.0250	1.6577%	2088069	111426	18.7	2	17	0	1.1983E-08
11	8.78	DDE	0.0301	1.9931%	1957483	95067	20.6	2	17	0	1.5368E-08
13	13.41	DDD	0.0500	3.3103%	2943464	95036	31.0	1	17	0	1.6974E-08
14	17.62	END ALDEHYDE	0.0498	3.3001%	2923970	58035	50.4	3	17	0	1.7035E-08
16	21.48	END SULFATE	0.0796	5.2717%	5167666	100741	51.3	2	17	0	1.5397E-08
17	24.55	MIREX	~~1.1247~~	74.5140%	2386852	39697	60.1	2	17	0	4.7120E-07
18	29.06	END KETONE	0.0801	5.3057%	6200185	93936	66.0	1	17	0	1.2916E-08

TOTAL AMOUNT = 1.5094

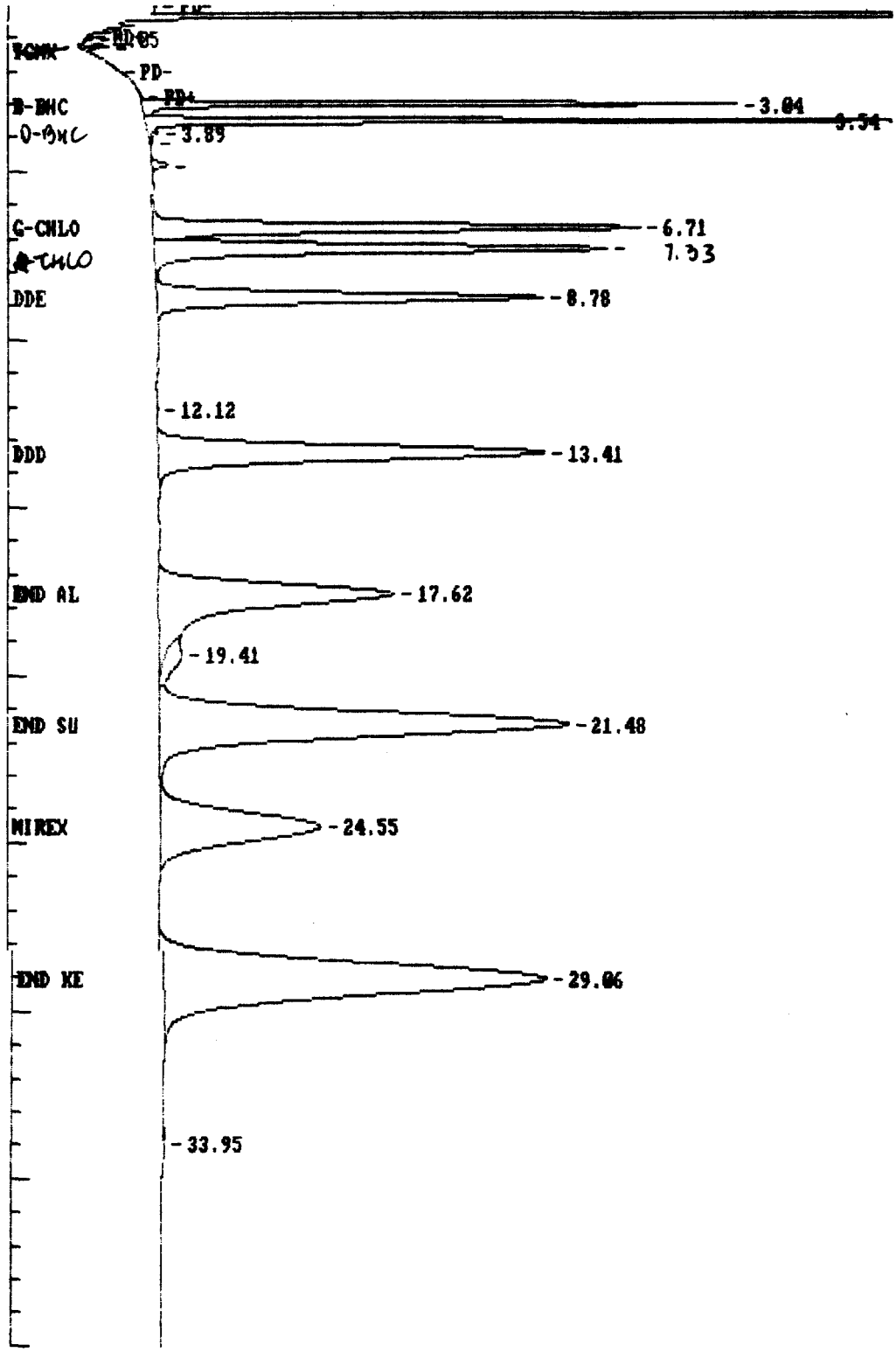
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.42	MIREX

UH
11/7/90

PRIMARY COLUMN

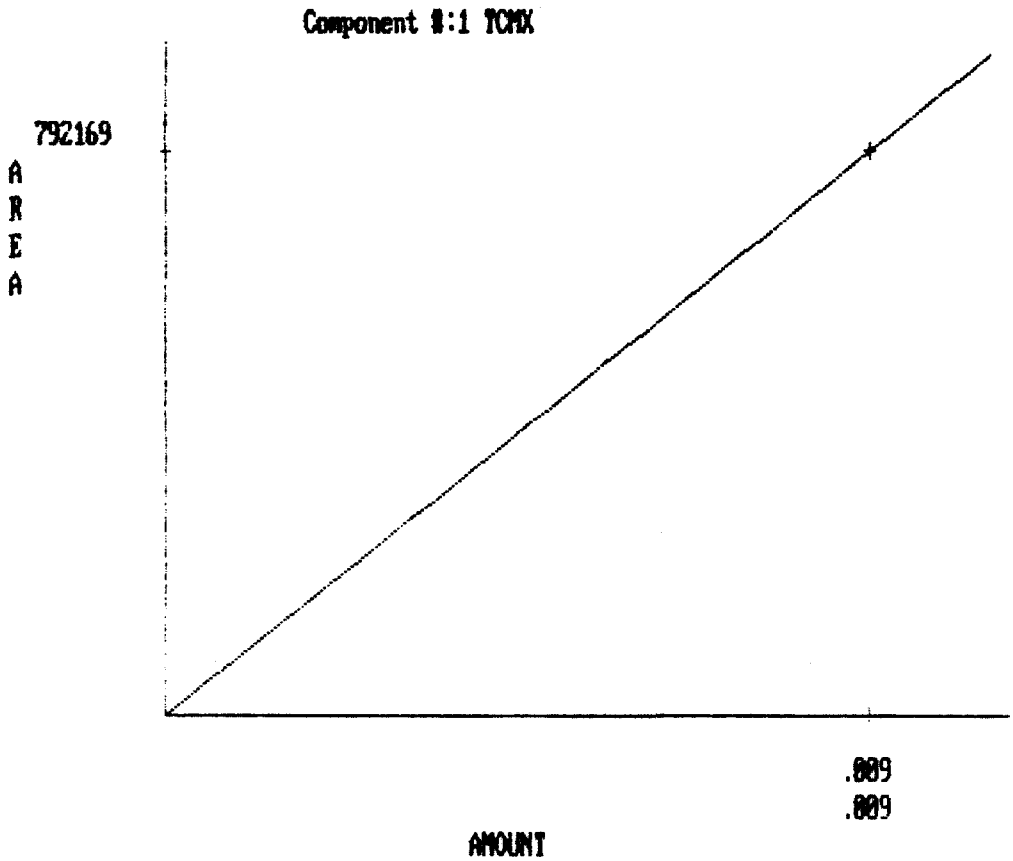
Areas. times. and heights stored in: W:2IC16.ATB
Data File = W:2IC16.PTS Printed on 10-31-1990 at 16:18:33
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/5/90

PRIMARY COLUMN

Method W:2PESTBR
Sample MIXED PHASE COLUMN - PESTICIDE MIX B
Operator DKC
Run date 10-31-1990 14:25:13 version: 211
Printed on 10-31-1990 AT 14:37:32
Straight Line fit

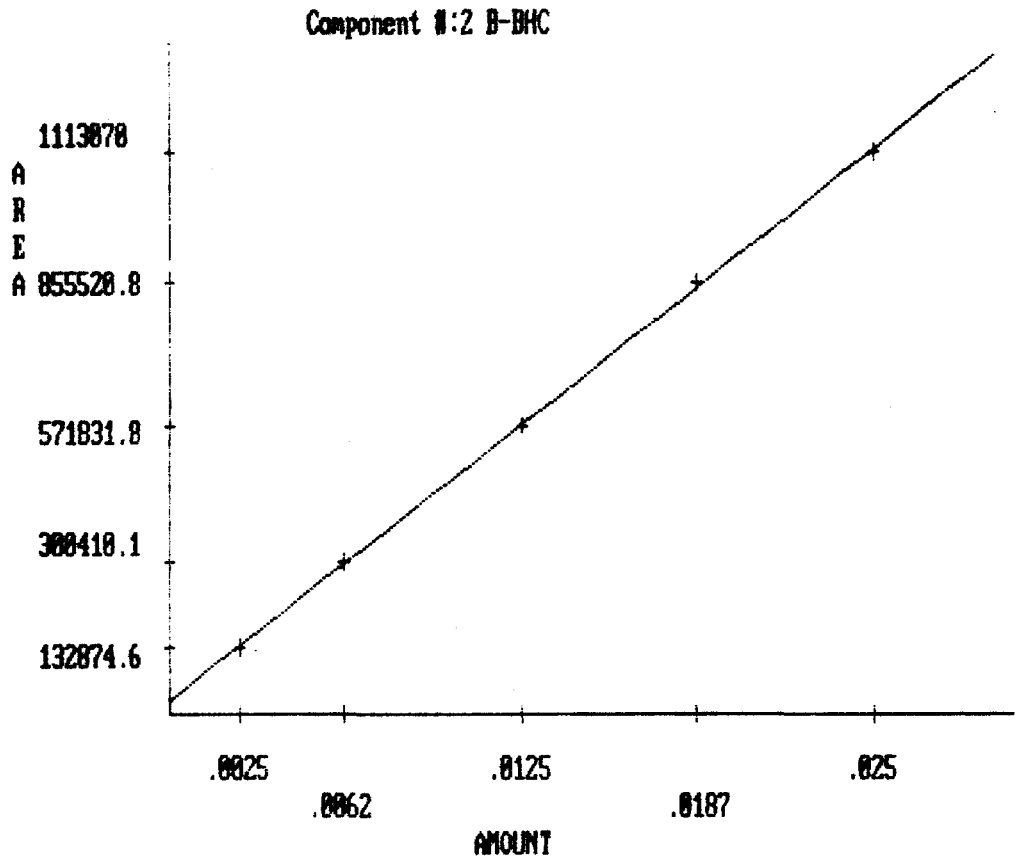


Component 1 = TCMX
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0090	792169
2	0.0090	792169
3	0.0090	792169
4	0.0090	792169
5	0.0090	792169

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 8.6019E+07 * Amount + 0.0000E+00
Amount = 1.1361E-08 * Area + 0.0000E+00
Correlation Coefficient = 0.0000

PRIMARY COLUMN



Component 2 = B-BHC
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0025	132875
2	0.0062	300410
3	0.0125	571832
4	0.0187	855521
5	0.0250	1113070

Y = SLOPE * X + INTERCEPT

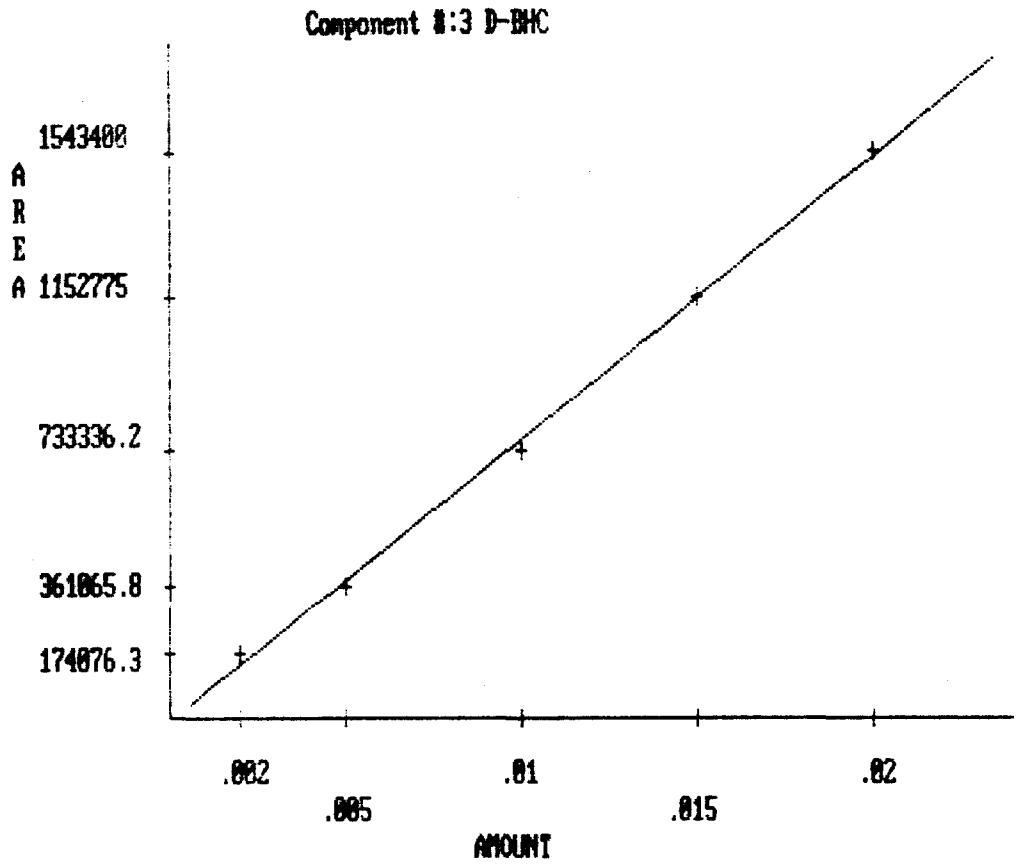
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 4.3720E+07 * Amount + 2.7249E+04

Amount = 2.2873E-08 * Area + -6.2326E-04

Correlation Coefficient = 0.9997

PRIMARY COLUMN



Component 3 = D-BHC
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0020	174076
2	0.0050	361066
3	0.0100	733336
4	0.0150	1152775
5	0.0200	1543400

Y = SLOPE * X + INTERCEPT

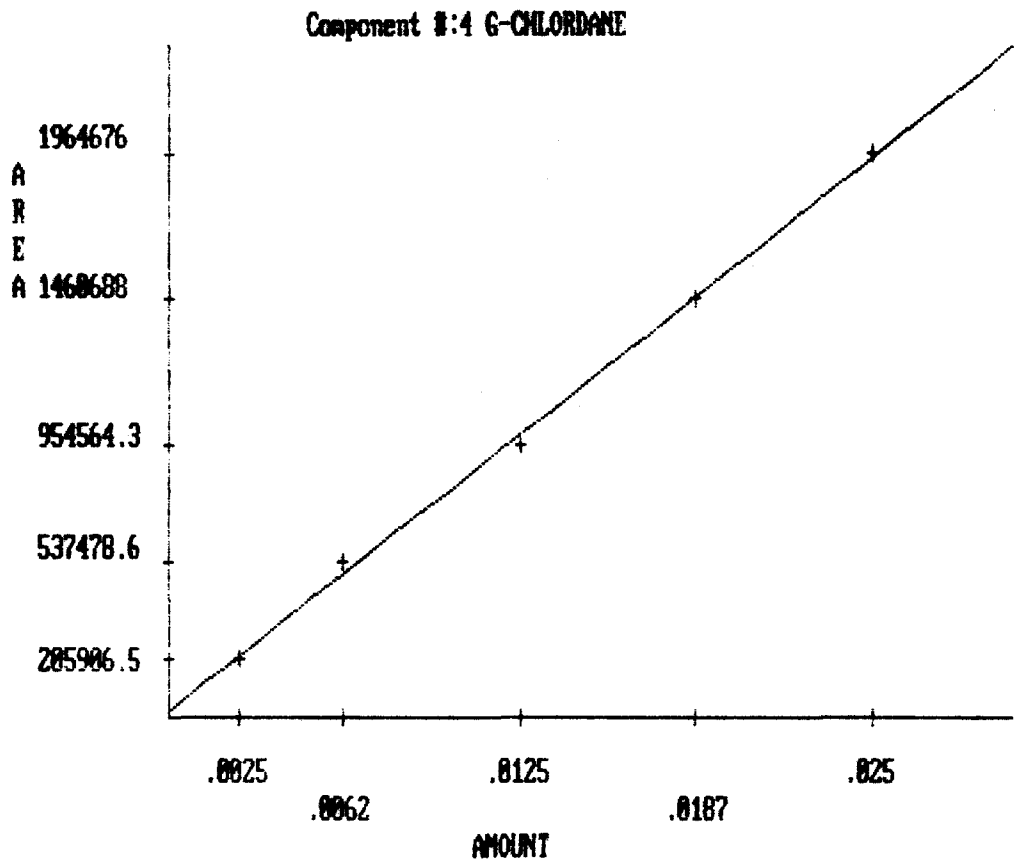
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 7.6989E+07 * Amount + -7.7559E+03

Amount = 1.2989E-08 * Area + 1.0074E-04

Correlation Coefficient = 0.9984

PRIMARY COLUMN



Component 4 = G-CHLORDANE
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0025	205907
2	0.0062	537479
3	0.0125	954564
4	0.0187	1460688
5	0.0250	1964676

Y = SLOPE * X + INTERCEPT

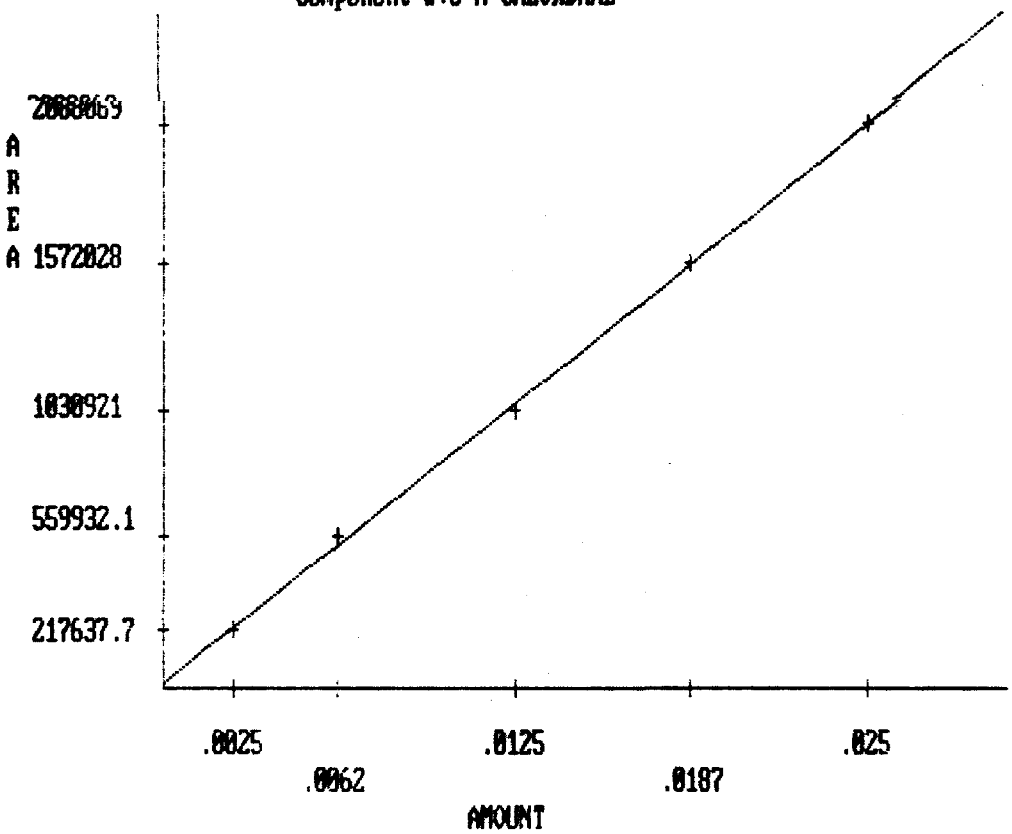
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 7.7155E+07 * Amount + 2.3185E+04

Amount = 1.2961E-08 * Area + -3.0050E-04

Correlation Coefficient = 0.9987

PRIMARY COLUMN

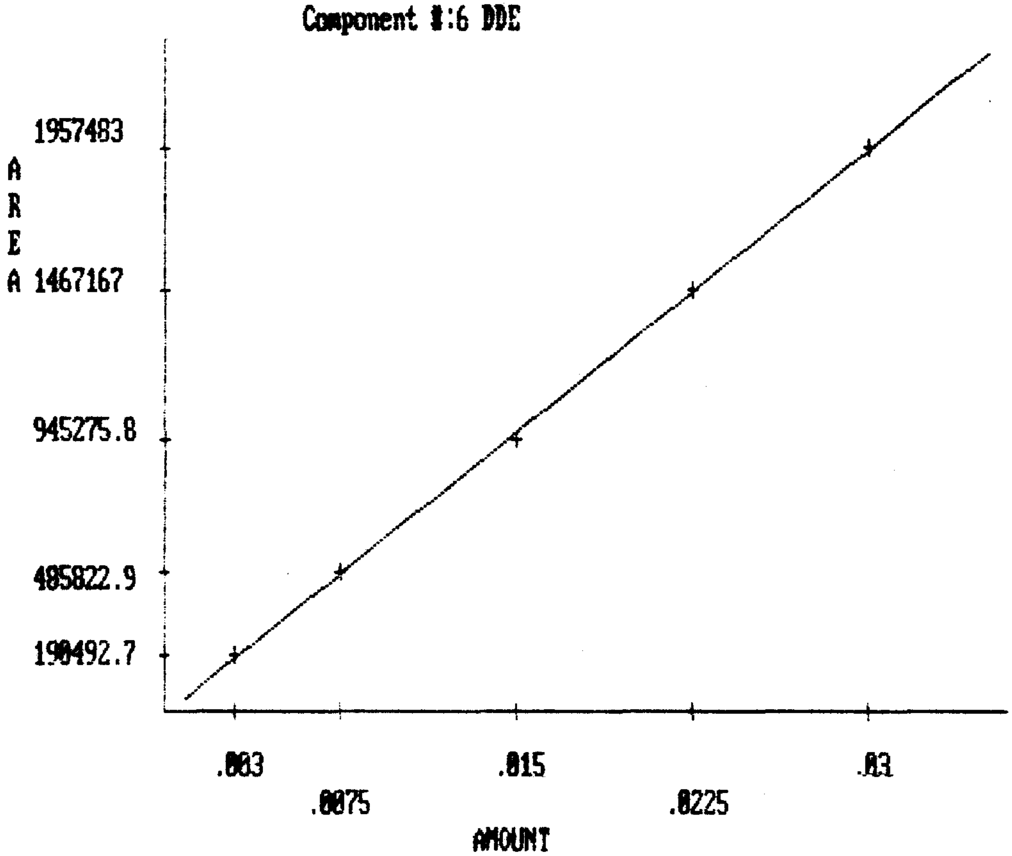


Component 5 = A-CHLORDANE
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0025	217638
2	0.0062	559932
3	0.0125	1030921
4	0.0187	1572028
5	0.0250	2088069

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 8.2582E+07 * Amount + 2.1806E+04
Amount = 1.2109E-08 * Area + -2.6405E-04
Correlation Coefficient = 0.9994

PRIMARY COLUMN



Component 6 = DDE

EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0030	190493
2	0.0075	485823
3	0.0150	945276
4	0.0225	1467167
5	0.0300	1957483

Y = SLOPE * X + INTERCEPT

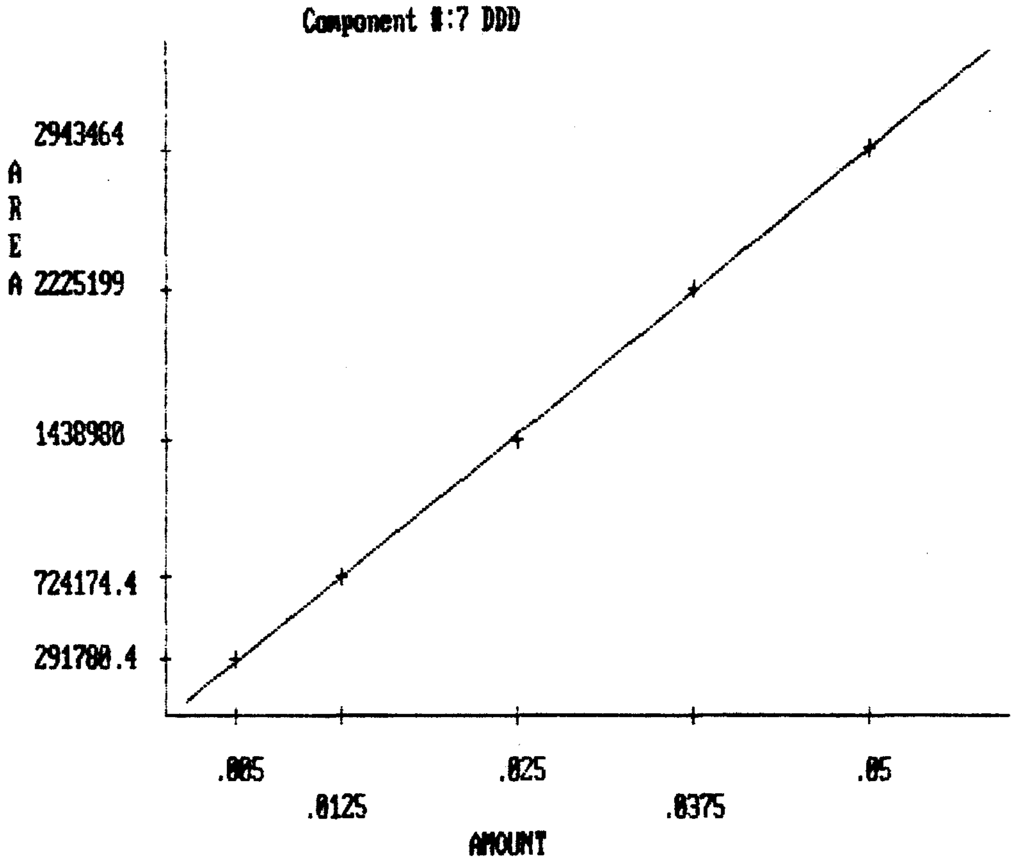
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 6.5476E+07 * Amount + -1.2172E+04

Amount = 1.5273E-08 * Area + 1.8590E-04

Correlation Coefficient = 0.9996

PRIMARY COLUMN



Component 7 = DDD

EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0050	291780
2	0.0125	724174
3	0.0250	1438980
4	0.0375	2225199
5	0.0500	2943464

Y = SLOPE * X + INTERCEPT

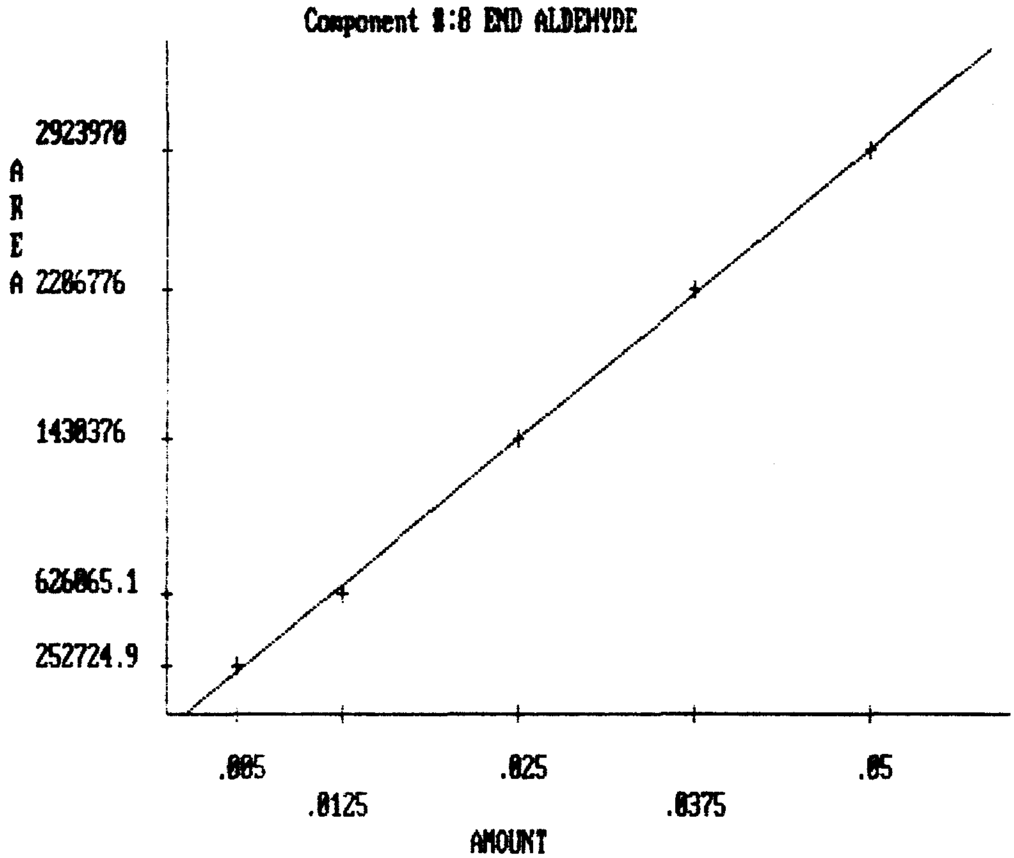
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 5.9205E+07 * Amount + -1.4601E+04

Amount = 1.6891E-08 * Area + 2.4663E-04

Correlation Coefficient = 0.9997

PRIMARY COLUMN

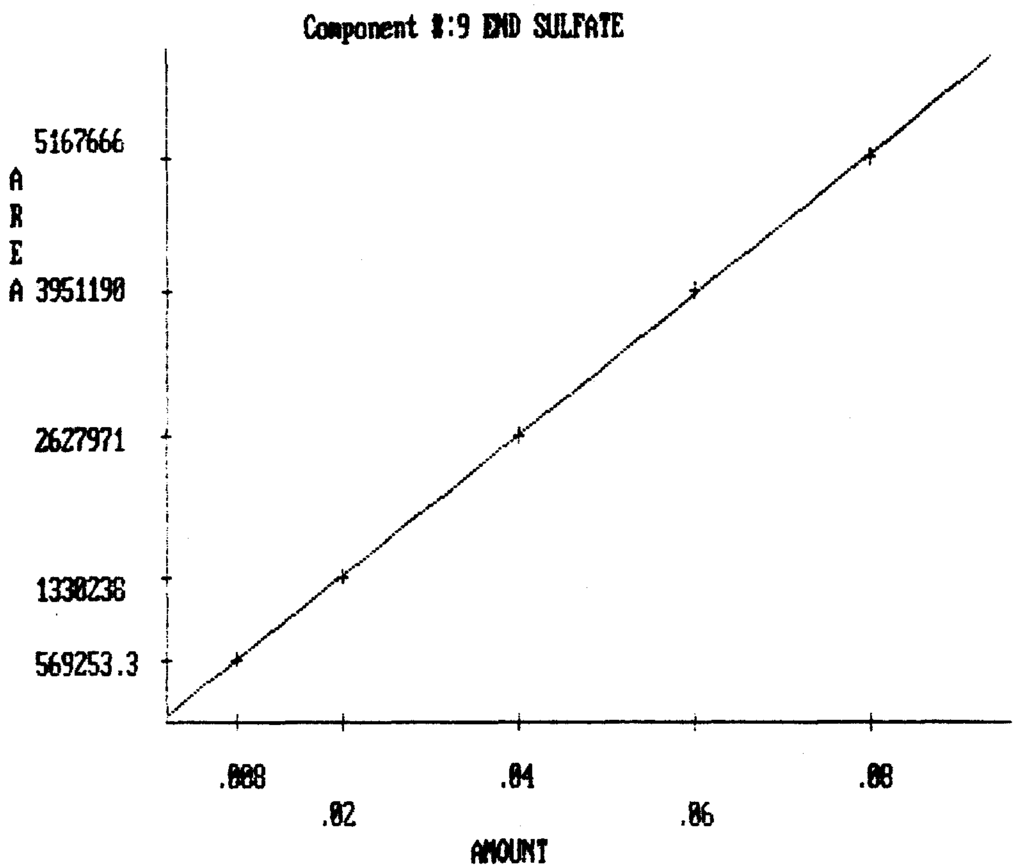


Component 8 = END ALDEHYDE
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0050	252725
2	0.0125	626065
3	0.0250	1430376
4	0.0375	2206776
5	0.0500	2923970

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 6.0311E+07 * Amount + -8.0090E+04
Amount = 1.6581E-08 * Area + 1.3280E-03
Correlation Coefficient = 0.9992

PRIMARY COLUMN

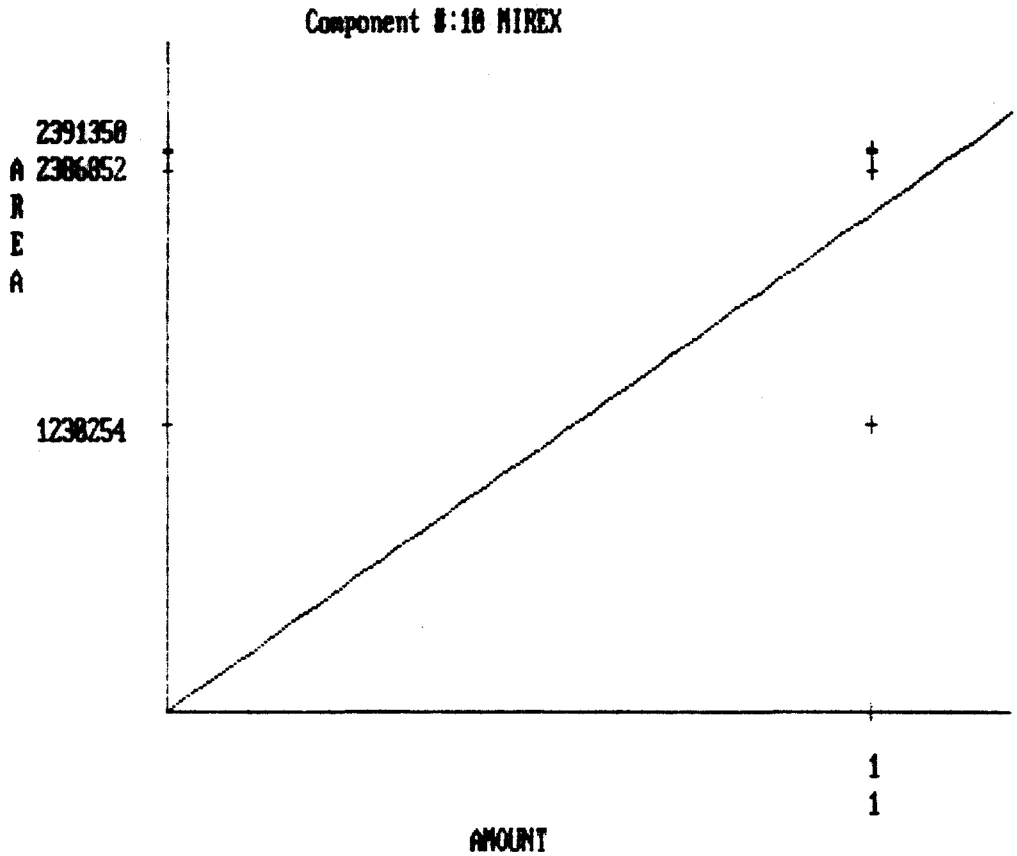


Component 9 = END SULFATE
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0080	569253
2	0.0200	1330238
3	0.0400	2627971
4	0.0600	3951190
5	0.0800	5167666

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 6.4222E+07 * Amount + 5.7612E+04
Amount = 1.5571E-08 * Area + -8.9706E-04
Correlation Coefficient = 0.9998

PRIMARY COLUMN

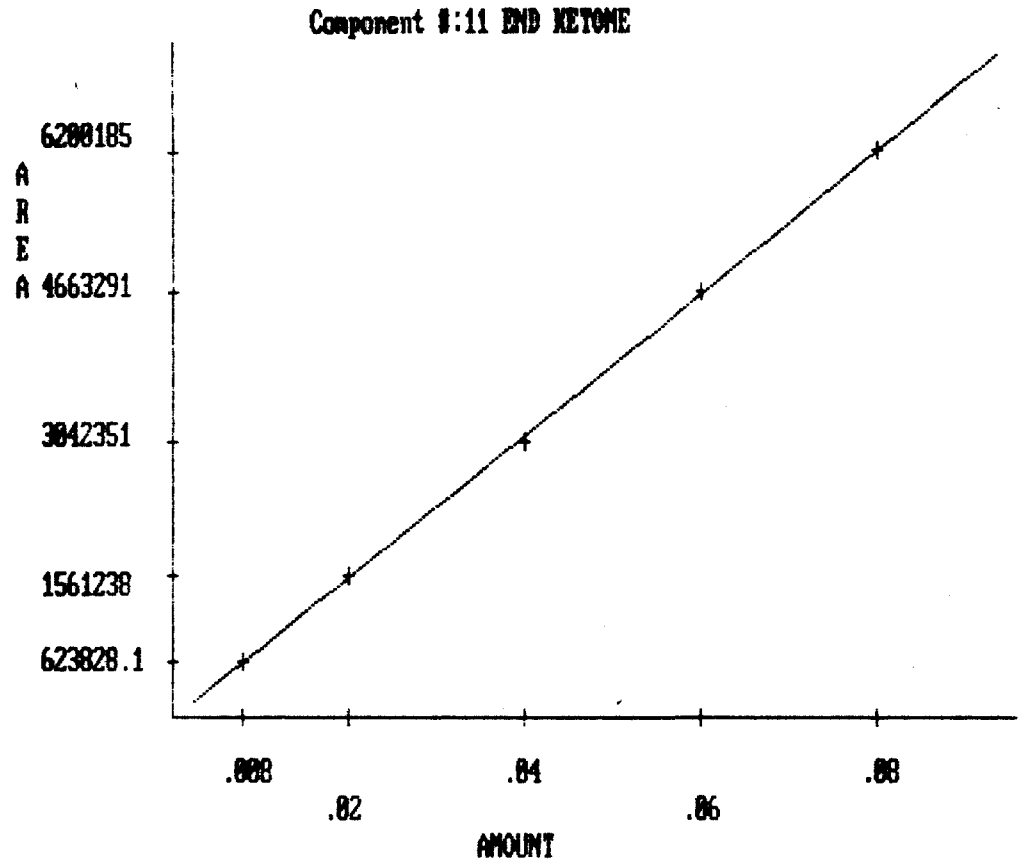


Component 10 = MIREX
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	1.0000	2304752
2	1.0000	2298062
3	1.0000	1230254
4	1.0000	2391350
5	1.0000	2386852

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 2.1223E+06 * Amount + 0.0000E+00
Amount = 4.7120E-07 * Area + 0.0000E+00
Correlation Coefficient = 0.0000

PRIMARY COLUMN



Component 11 = END KETONE
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0080	623828
2	0.0200	1561238
3	0.0400	3042351
4	0.0600	4663291
5	0.0800	6200185

Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area = 7.7492E+07 * Amount + -5.4864E+03

Amount = 1.2905E-08 * Area + 7.0800E-05

Correlation Coefficient = 0.9998

PRIMARY COLUMN

**** EXTERNAL STANDARD TABLE ******

********** 11-01-1990 15:35:56 Version 4.1 **********

* Sample Name: PEST B L3 #3 Data File: W:2MAG23 *
* Date: 11-01-1990 02:43:44 Method: W:2PESTBR 10-31-1990 14:25:13 # 211*
* Interface: 0 Cycle#: 23 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PRIMARY COLUMN~~ *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	2.99	B-BHC	0.0122	0.9695%	558463	73828	7.6	2	18	-.2917	2.1757E-08
4	3.51	D-BHC	0.0095	0.7568%	722499	85432	8.5	3	18	.4229	1.3128E-08
10	6.63	G-CHLORDANE	0.0121	0.9635%	954898	57925	16.5	2	18	.1183	1.2646E-08
11	7.25	A-CHLORDANE	0.0120	0.9600%	1015404	54499	18.6	2	18	.2246	1.1849E-08
12	8.67	DDE	0.0139	1.1116%	900016	43606	20.6	2	18	0	1.5479E-08
14	13.23	DDD	0.0232	1.8531%	1360437	44358	30.7	2	18	0	1.7072E-08
15	17.37	END ALDEHYDE	0.0239	1.9084%	1362394	28335	48.1	3	18	0	1.7556E-08
17	21.16	END SULFATE	0.0382	3.0450%	2508522	49943	50.2	2	18	-.1185	1.5213E-08
18	24.21	MIREX	~~1.0705~~	85.4177%	2271964	38347	59.2	2	18	0	4.7120E-07
19	28.62	END KETONE	0.0378	3.0145%	2922194	45236	64.6	1	18	-.1355	1.2929E-08

TOTAL AMOUNT = 1.2533

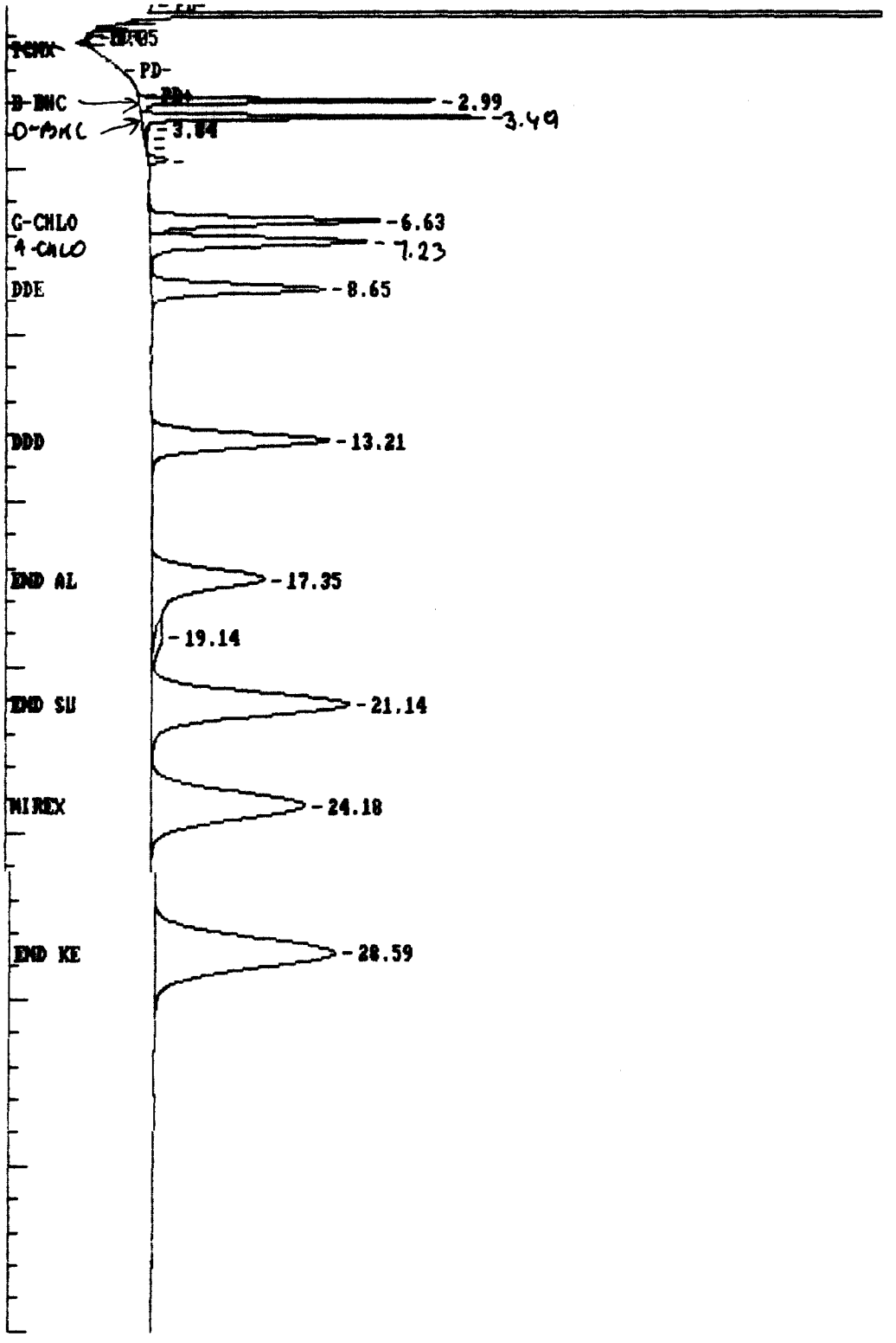
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.40	MIREX

KM
11/5/90

PRIMARY COLUMN

File = W:2MAG14.PTS Printed on 11-01-1990 at 15:33:25
rt time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
.11 Range: 200 millivolts



WM
11/5/90

PRIMARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 10:46:01 Version 4.1 **********

* Sample Name: PEST B L3 #4 Data File: W:2MAG35 *
* Date: 11-01-1990 11:53:25 Method: W:2PESTBR 10-31-1990 14:25:13 # 211*
* Interface: 0 Cycle#: 35 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	2.99	B-BHC	0.0121	0.9759%	558372	74554	7.5	2	16	.1919	2.1756E-08
4	3.49	D-BHC	0.0096	0.7723%	732399	86724	8.4	3	16	.4295	1.3126E-08
9	6.60	G-CHLORDANE	0.0121	0.9714%	956091	57788	16.5	2	16	0	1.2647E-08
10	7.21	A-CHLORDANE	0.0120	0.9623%	1011014	54552	18.5	2	16	.2467	1.1848E-08
11	8.63	DDE	0.0139	1.1133%	895213	43625	20.5	2	16	.1280	1.5481E-08
12	13.18	DDD	0.0235	1.8894%	1377830	44527	30.9	1	16	0	1.7070E-08
13	17.28	END ALDEHYDE	0.0235	1.8892%	1338212	28285	47.3	3	16	0	1.7573E-08
15	21.06	END SULFATE	0.0384	3.0818%	2521299	50423	50.0	2	16	-.1092	1.5215E-08
16	24.10	MIREX	~~1.0618~~	85.3027%	2253466	38187	59.0	2	16	0	4.7120E-07
17	28.49	END KETONE	0.0379	3.0416%	2928436	45397	64.5	1	16	-.1194	1.2929E-08

TOTAL AMOUNT = 1.2448

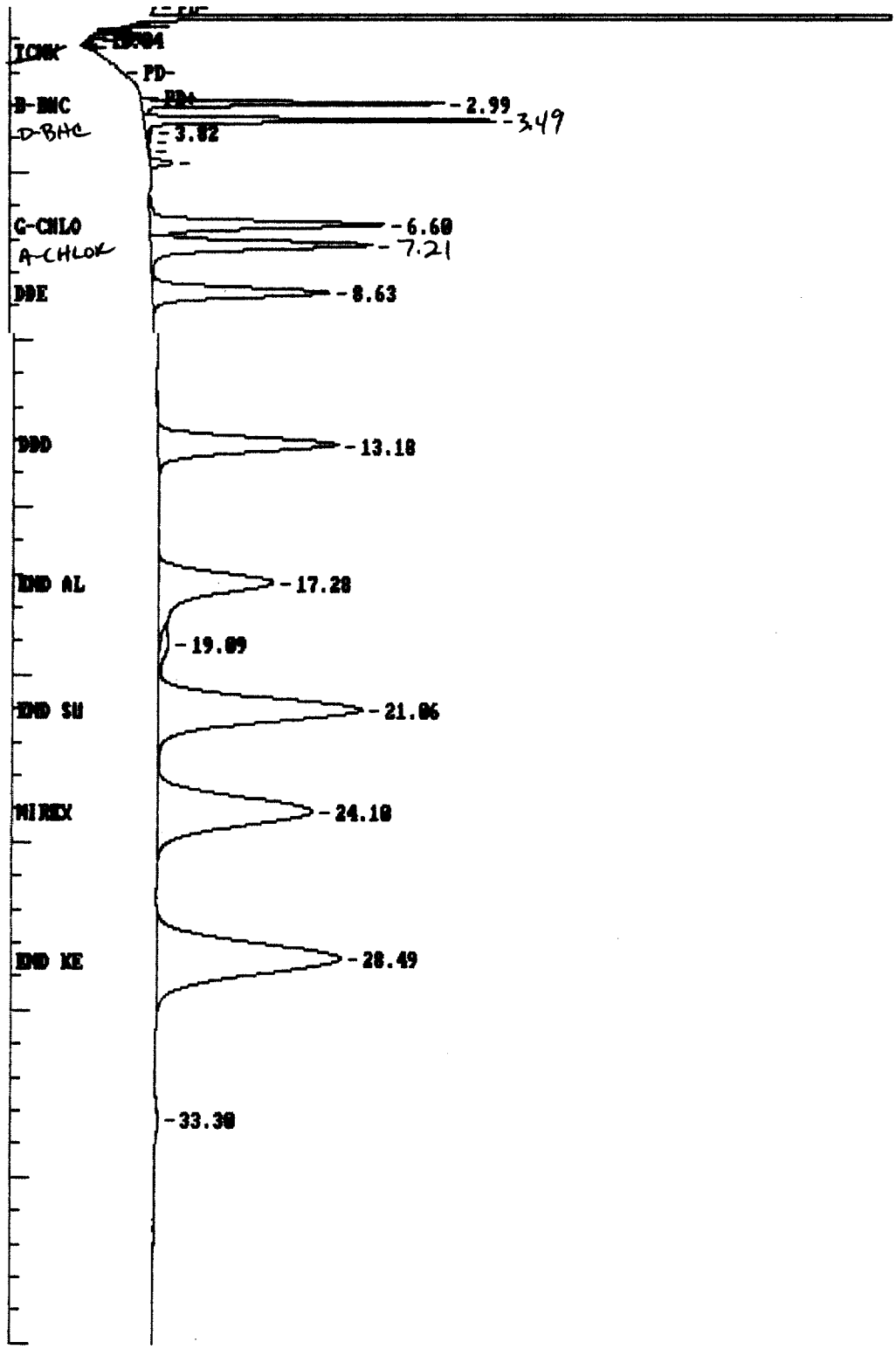
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.39	MIREX

86 11/6/90

PRIMARY COLUMN

Data File = W:2MAG35.PTS Printed on 11-02-1990 at 10:46:23
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8
11/6/90

PRIMARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 10:51:38 Version 4.1 **********

* Sample Name: PEST B L3 #5 Data File: W:2MAG44 *
* Date: 11-01-1990 18:09:01 Method: W:2PESTBR 10-31-1990 14:25:13 # 211*
* Interface: 0 Cycle#: 44 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~K~~ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	2.96	B-BHC	0.0119	0.9571%	547273	73965	7.4	2	15	-.1665	2.1734E-08
4	3.46	D-BHC	0.0092	0.7371%	697456	86904	8.0	3	15	.2325	1.3133E-08
7	6.55	G-CHLORDANE	0.0119	0.9538%	937724	57912	16.2	2	15	.1000	1.2640E-08
8	7.15	A-CHLORDANE	0.0118	0.9535%	1000359	54364	18.4	2	15	0	1.1845E-08
9	8.57	DDE	0.0138	1.1085%	889833	43762	20.3	2	15	.1165	1.5482E-08
11	13.06	DDD	0.0232	1.8673%	1359336	44712	30.4	1	15	0	1.7072E-08
12	17.15	END ALDEHYDE	0.0239	1.9252%	1362862	28577	47.7	3	15	0	1.7555E-08
14	20.91	END SULFATE	0.0388	3.1251%	2551826	50929	50.1	2	15	0	1.5219E-08
15	23.91	MIREX	~~1.0604~~	85.3296%	2250540	38228	58.9	2	15	0	4.7120E-07
16	28.29	END KETONE	0.0378	3.0429%	2925003	45565	64.2	1	15	0	1.2929E-08

TOTAL AMOUNT = 1.2428

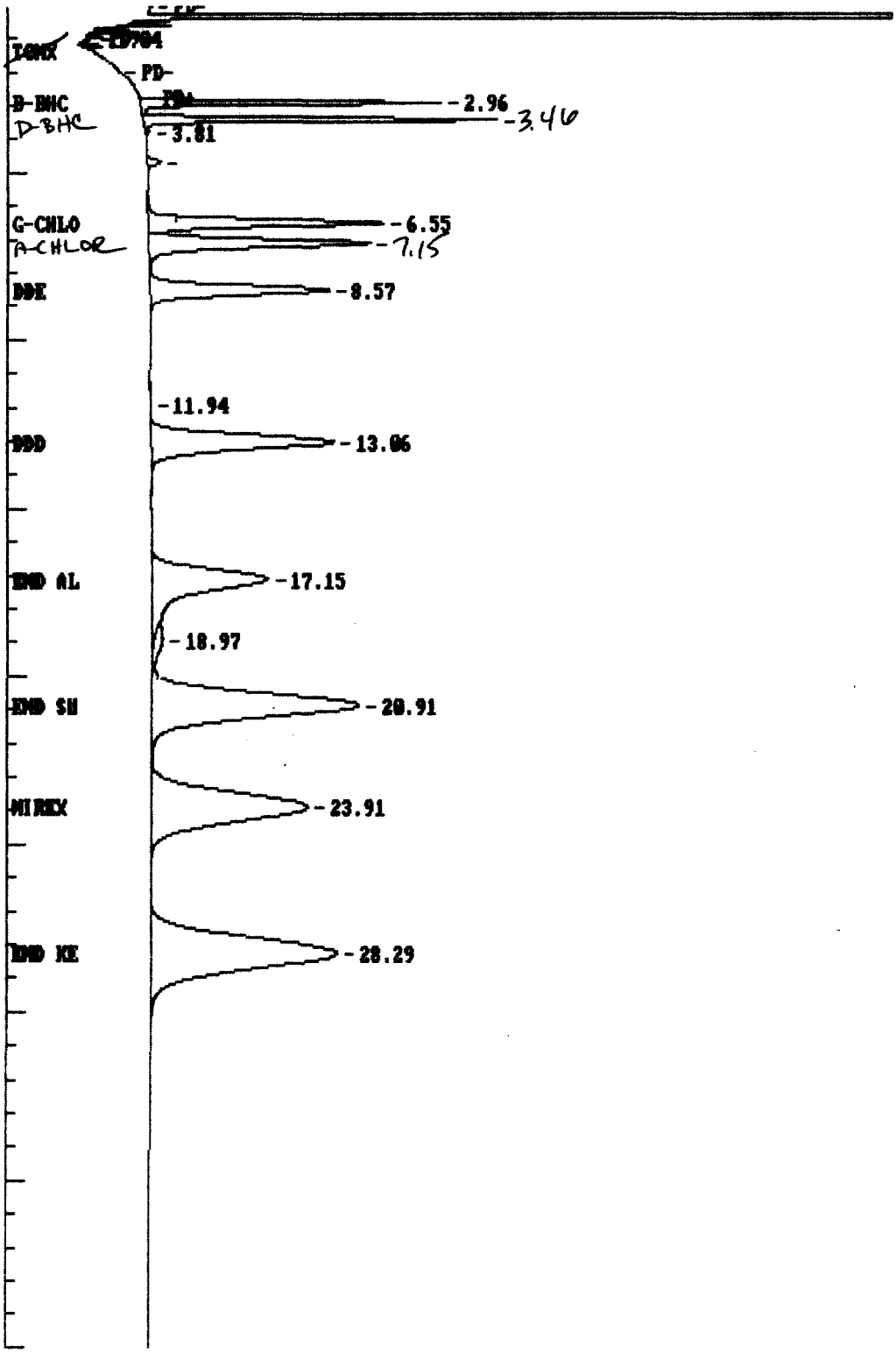
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.38	MIREX

SO 11/6/90

PRIMARY COLUMN

Data File = W:2MAG44.PTS Printed on 11-02-1990 at 10:51:59
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SB 11/6/90

SECONDARY COLUMN

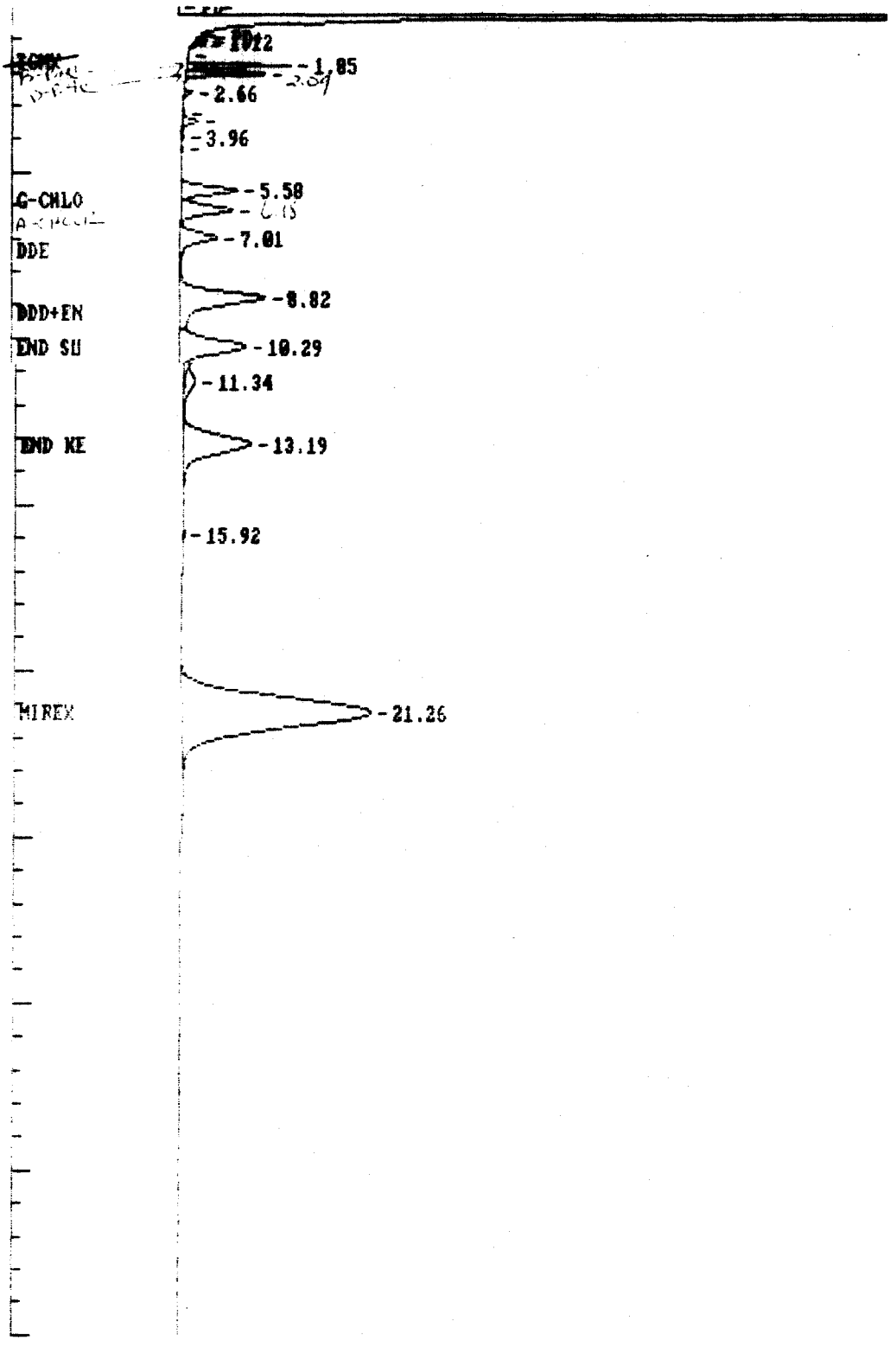
```
******    EXTERNAL  STANDARD  TABLE    ******
******************** 11-04-1990 14:21:57 Version 4.1 *********************
* Sample Name: PEST B L1                              Data File: W:11C11      *
* Date: 10-28-1990 20:53:00 Method: W:1PESTB 11-04-1990 13:44:09  #  160  *
* Interface: 0   Cycle#:  11   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
****************************************************************************
* Instrument Type: HP 5890A #2             Column Type: PACKED COLUMNS      *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                     *
*            Detector 0: ECD QUANT CONF        Detector 1: ECD CONF QUANT   *
* Misc. Information: PERFORMANCE EVALUATION               LPT1:        *    *
****************************************************************************
Starting Delay:    0.00                    Ending retention time:   40.00
Area reject:         0                     One sample per   1.002 sec.
Amount injected:         1.00              Dilution factor:        1.00
Sample Weight:           1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.57~~	~~TCMX~~	~~0.0000~~	~~0.0009%~~	~~1172~~	~~241~~	~~4.9~~	~~2~~	~~19~~	~~1.201~~	~~8.5812E-09~~
4	1.85	B-BHC	0.0026	0.2293%	146988	25944	5.7	2	19	-4.306	1.7661E-08
5	2.09	D-BHC	0.0026	0.2332%	123802	19834	6.2	2	19	-4.576	2.1327E-08
11	5.58	G-CHLOR	0.0028	0.2497%	237197	14097	16.8	2	19	-4.639	1.1918E-08
12	6.18	A-CHLOR	0.0029	0.2536%	249406	12943	19.3	2	19	-4.635	1.1514E-08
13	7.01	DDE	0.0038	0.3326%	201904	9278	21.8	2	19	-4.757	1.8652E-08
14	8.82	DDD+END ALD	0.0116	1.0274%	647730	21155	30.6	2	19	-4.860	1.7959E-08
15	10.29	END SULFATE	0.0095	0.8377%	519405	16300	31.9	3	19	0	1.8262E-08
17	13.19	END KETONE	0.0096	0.8454%	636627	16662	38.2	2	19	0	1.5035E-08
19	21.26	MIREX	~~1.0868~~	95.9902%	2959835	46574	63.6	1	19	0	3.6720E-07

TOTAL AMOUNT = 1.1322

8/11/16/90

Data File = W:11C11.PTS Printed on 11-04-1990 at 13:37:12
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8 11/6/90

SECONDARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-01-1990 09:51:23 Version 4.1 **********

* Sample Name: PEST B L2 Data File: W:1IC12 *
* Date: 10-28-1990 21:37:11 Method: W:1PESTB 10-30-1990 15:48:47 # 155 *
* Interface: 0 Cycle#: 12 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

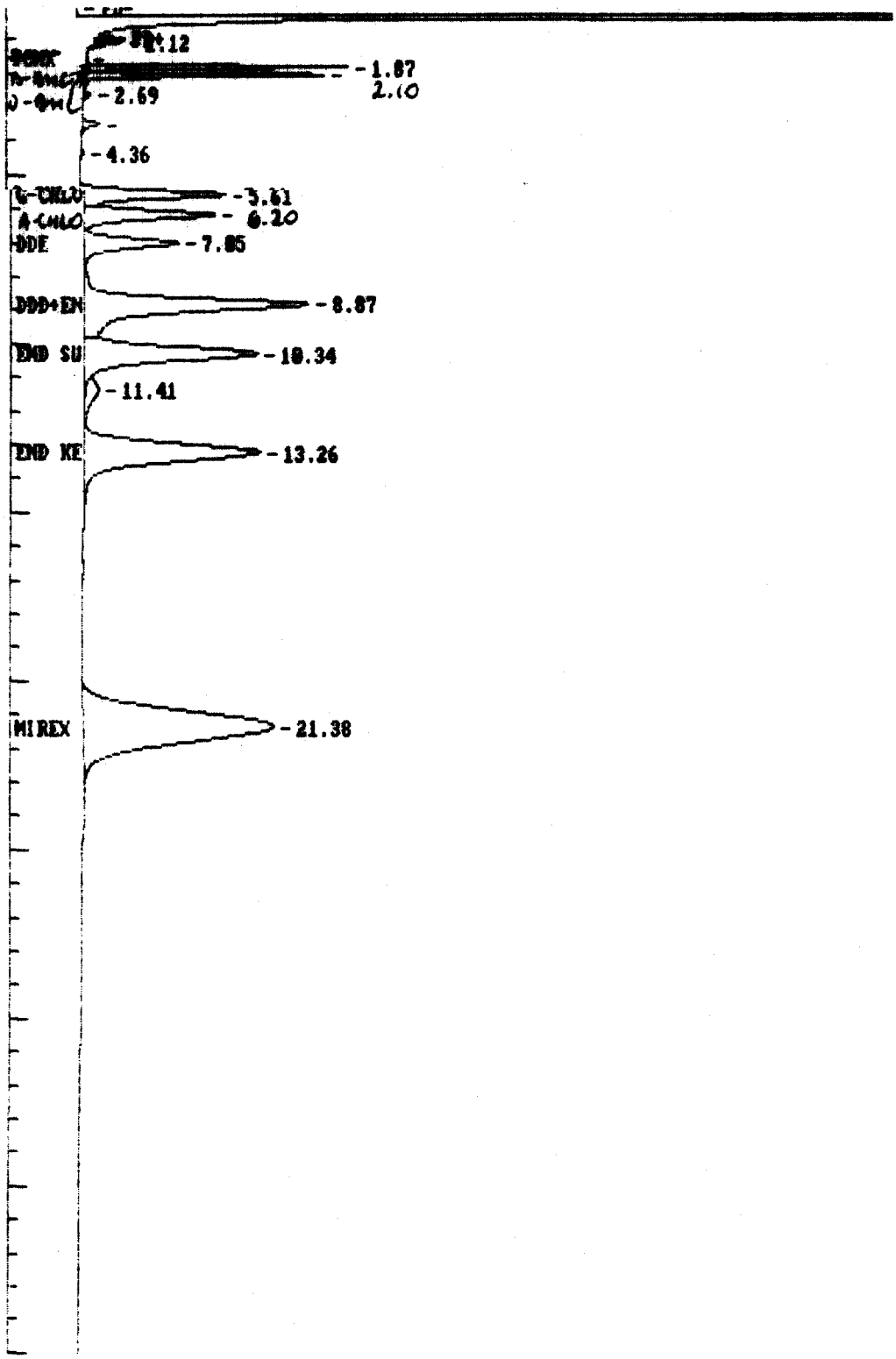
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~2~~	~~1.59~~	~~TCMX~~	~~0.0000~~	~~0.0009%~~	~~1251~~	~~280~~	~~4.5~~	~~2~~	~~15~~	.9074	8.5812E-09
3	1.87	B-BHC	0.0063	0.5345%	366114	64326	5.7	2	15	1.530	1.7269E-08
4	2.10	D-BHC	0.0048	0.4086%	347807	58490	5.9	2	15	1.142	1.3896E-08
8	5.61	G-CHLOR	0.0063	0.5304%	577382	34608	16.7	2	15	.6624	1.0867E-08
9	6.20	A-CHLOR	0.0062	0.5263%	597571	31951	18.7	2	15	.5488	1.0417E-08
10	7.05	DDE	0.0074	0.6283%	489275	23185	21.1	2	15	.6257	1.5190E-08
11	8.87	DDD+END ALD	0.0249	2.1055%	1646996	55012	29.9	2	15	.6089	1.5122E-08
12	10.34	END SULFATE	0.0199	1.6788%	1327151	42437	31.3	3	15	.4501	1.4963E-08
14	13.26	END KETONE	0.0198	1.6708%	1630475	43077	37.9	2	15	.3534	1.2121E-08
15	21.38	MIREX	~~1.0872~~	91.9159%	2960915	46561	63.6	1	15	0	3.6720E-07

TOTAL AMOUNT = 1.1829

KM
11/5/90

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC12.ATB
Data File = W:1IC12.PTS Printed on 11-01-1990 at 09:51:47
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



BKC
11/9/90

SECONDARY COLUMN

```
*****   EXTERNAL STANDARD TABLE   *****
******************** 11-01-1990 09:52:39 Version 4.1 **********************
* Sample Name: PEST B L3                          Data File: W:1IC13       *
* Date: 10-28-1990 22:21:17 Method: W:1PESTB  10-30-1990 15:48:47  #  155 *
* Interface: 0   Cycle#:  13   Operator DKC Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANTCONF~~        Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: ~~PERFORMANCE EVALUATION~~          LPT1:        *   *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    40.00
Area reject:       0                       One sample per    1.002 sec.
Amount injected:        1.00               Dilution factor:        1.00
Sample Weight:          1.000000
```

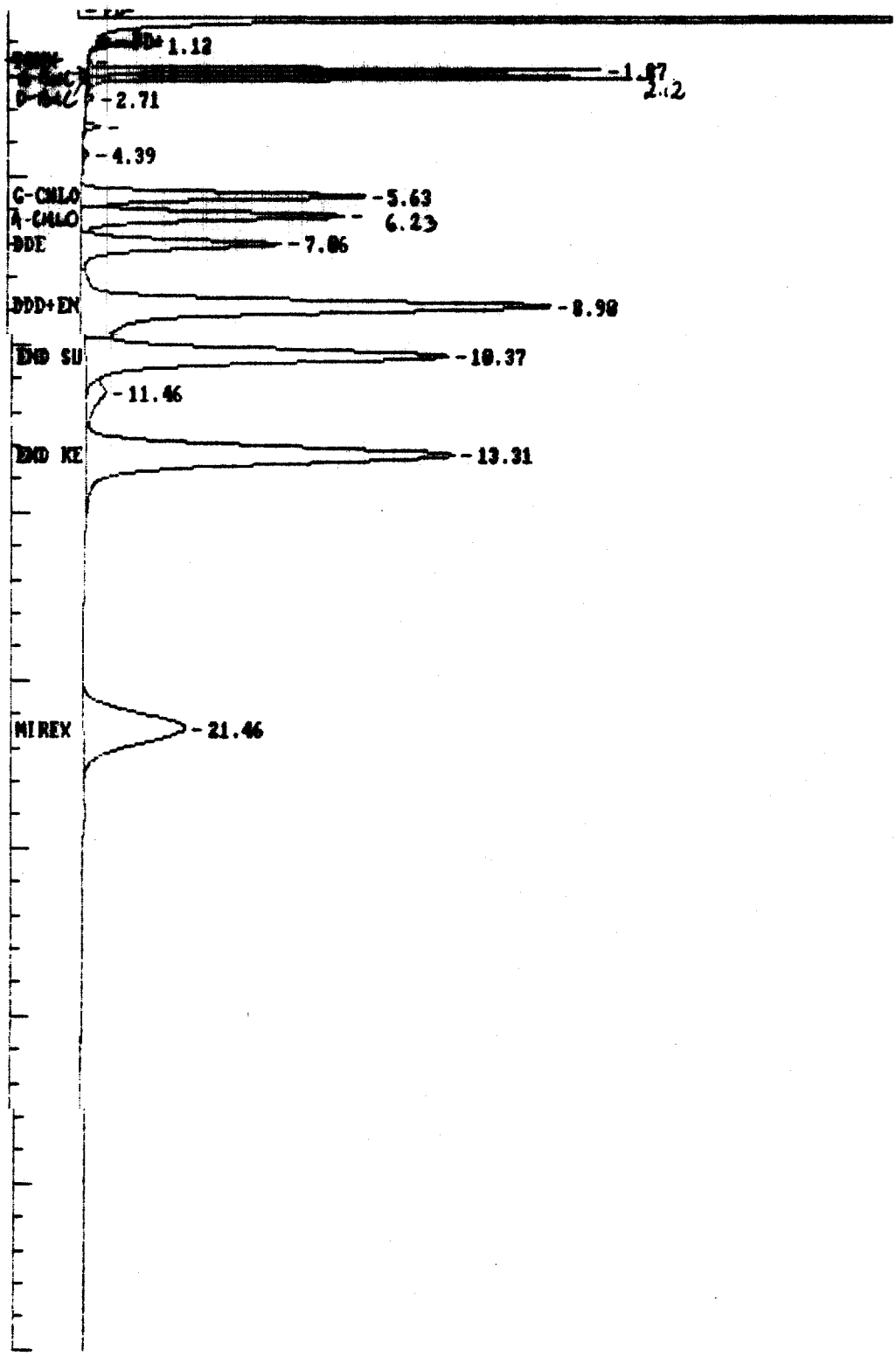
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L mL	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~2~~	~~1.69~~	~~TGNX~~	~~0.0000~~	~~0.0016%~~	~~1455~~	~~342~~	~~4.2~~	~~2~~	~~15~~	.5148	8.5812E-09
3	1.87	B-BHC	0.0123	1.6133%	717116	125870	5.7	2	15	1.135	1.7140E-08
4	2.12	D-BHC	0.0092	1.2105%	796219	132930	6.0	2	15	1.548	1.1583E-08
8	5.63	G-CHLOR	0.0120	1.5740%	1141704	69624	16.4	2	15	.5691	1.0504E-08
9	6.23	A-CHLOR	0.0120	1.5721%	1194883	64496	18.5	2	15	.6975	1.0025E-08
10	7.06	DDE	0.0140	1.8417%	1006633	49109	20.5	2	15	.4717	1.3940E-08
11	8.90	DDD+END ALD	0.0479	6.2928%	3381665	115225	29.3	2	15	.5949	1.4178E-08
12	10.37	END SULFATE	0.0381	4.9972%	2745712	89144	30.8	3	15	.3826	1.3867E-08
14	13.31	END KETONE	0.0381	4.9999%	3418346	90700	37.7	2	15	.3406	1.1144E-08
15	21.46	MIREX	~~0.5783~~	75.8969%	1574833	24964	63.1	1	15	0	3.6720E-07

TOTAL AMOUNT = 0.7619

MGM
11/5/90

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC13.ATB
Data File = W:1IC13.PTS Printed on 11-01-1990 at 09:53:02
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



DKC
11/9/90

SECONDARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-01-1990 09:53:56 Version 4.1 **********

* Sample Name: PEST B L4 Data File: W:1IC14 *
* Date: 10-28-1990 23:05:24 Method: W:1PESTB 10-30-1990 15:48:47 # 155 *
* Interface: 0 Cycle#: 14 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

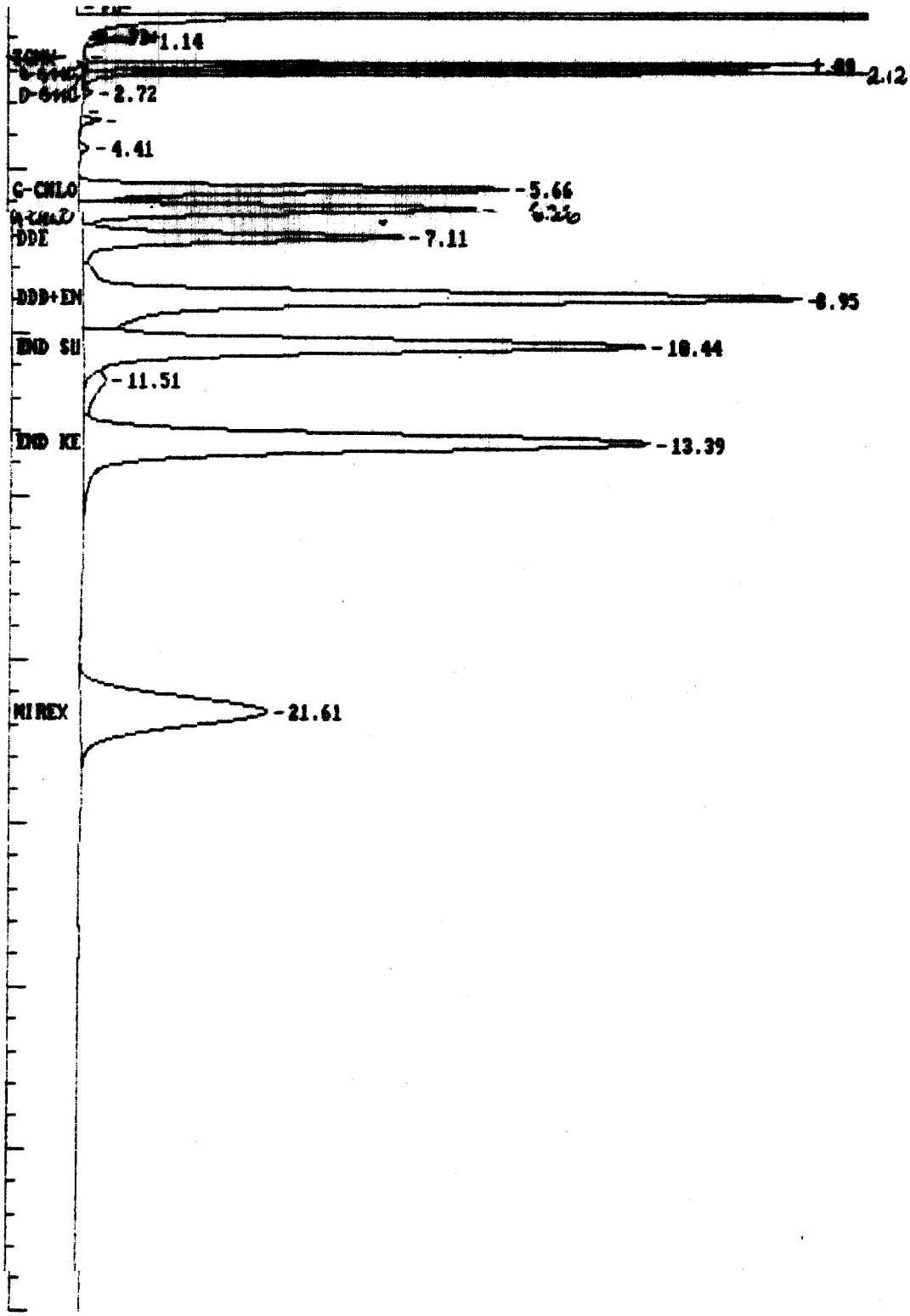
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/kmL	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~2~~	~~1.60~~	~~TCMX~~	~~0.0000~~	~~0.0013%~~	~~2045~~	~~454~~	~~4.5~~	~~2~~	~~16~~	~~.8664~~	~~8.5812E-09~~
3	1.89	B-BHC	0.0184	1.3244%	1076596	186972	5.8	2	16	1.328	1.7096E-08
4	2.12	D-BHC	0.0148	1.0614%	1360871	226415	6.0	2	16	.8424	1.0839E-08
9	5.66	G-CHLOR	0.0183	1.3181%	1765883	108474	16.3	2	16	.4623	1.0373E-08
10	6.26	A-CHLOR	0.0183	1.3192%	1854556	100345	18.5	2	16	.5333	9.8849E-09
11	7.11	DDE	0.0219	1.5746%	1621917	80856	20.1	2	16	.4805	1.3491E-08
12	8.95	DDD+END ALD	0.0735	5.2901%	5306755	181257	29.3	2	16	.4575	1.3853E-08
13	10.44	END SULFATE	0.0589	4.2405%	4369697	141804	30.8	3	16	.3265	1.3486E-08
15	13.39	END KETONE	0.0589	4.2356%	5443676	142953	38.1	2	16	.2678	1.0813E-08
16	21.61	MIREX	~~1.1067~~	79.6349%	3013866	46909	64.2	1	16	0	3.6720E-07

TOTAL AMOUNT = 1.3897

UM
11/1/90

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC14.ATB
Data File = W:1IC14.PT5 Printed on 11-01-1990 at 09:54:20
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



DKC
11/9/90

SECONDARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-01-1990 09:55:18 Version 4.1 **********

* Sample Name: PEST B L5 Data File: W:1IC15 *
* Date: 10-28-1990 23:49:31 Method: W:1PESTB 10-30-1990 15:48:47 # 155 *
* Interface: 0 Cycle#: 15 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

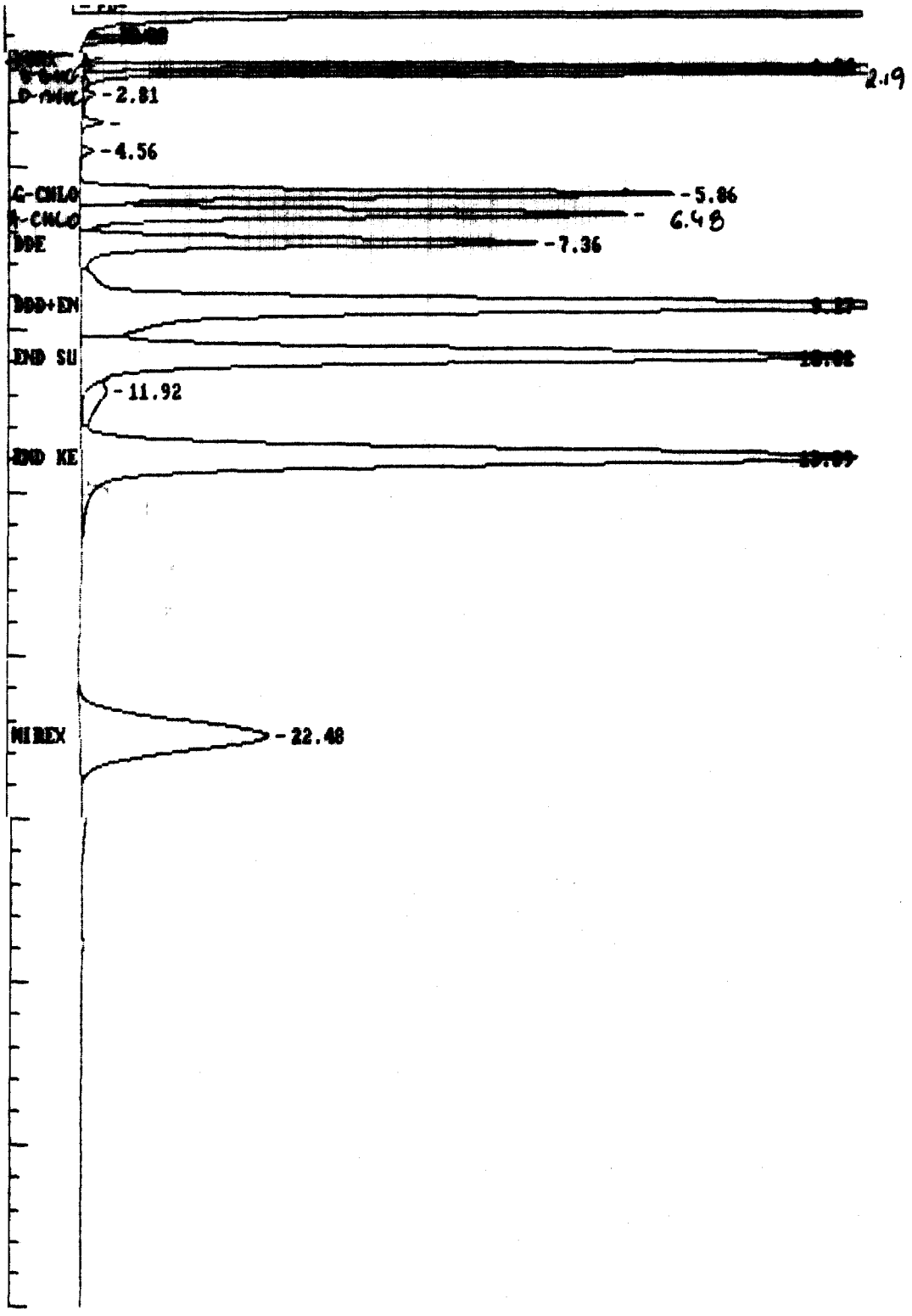
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L mL	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.65~~	~~TCMX~~	~~0.0000~~	~~0.0015%~~	~~2597~~	~~561~~	~~4.6~~	~~2~~	16	0	8.5812E-09
4	1.94	B-BHC	0.0253	1.6482%	1481133	250654	5.9	2	16	0	1.7071E-08
5	2.19	D-BHC	0.0206	1.3398%	1953719	312961	6.2	2	16	0	1.0520E-08
9	5.86	G-CHLOR	0.0255	1.6615%	2473493	149954	16.5	2	16	0	1.0305E-08
10	6.48	A-CHLOR	0.0255	1.6618%	2597970	138433	18.8	2	16	0	9.8125E-09
11	7.36	DDE	0.0309	2.0135%	2327901	115568	20.1	2	16	0	1.3269E-08
12	9.27	DDD+END ALD	0.1020	6.6490%	7451298	248323	30.0	2	16	0	1.3689E-08
13	10.82	END SULFATE	0.0817	5.3226%	6139195	195772	31.4	3	16	0	1.3300E-08
15	13.89	END KETONE	0.0817	5.3262%	7671656	196163	39.1	2	16	0	1.0651E-08
16	22.48	MIREX	~~1.1410~~	74.3759%	3107259	47604	65.3	1	16	0	3.6720E-07

TOTAL AMOUNT = 1.5341

WT
4/5/90

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC15.ATB
Data File = W:1IC15.PTS Printed on 11-01-1990 at 09:55:42
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts

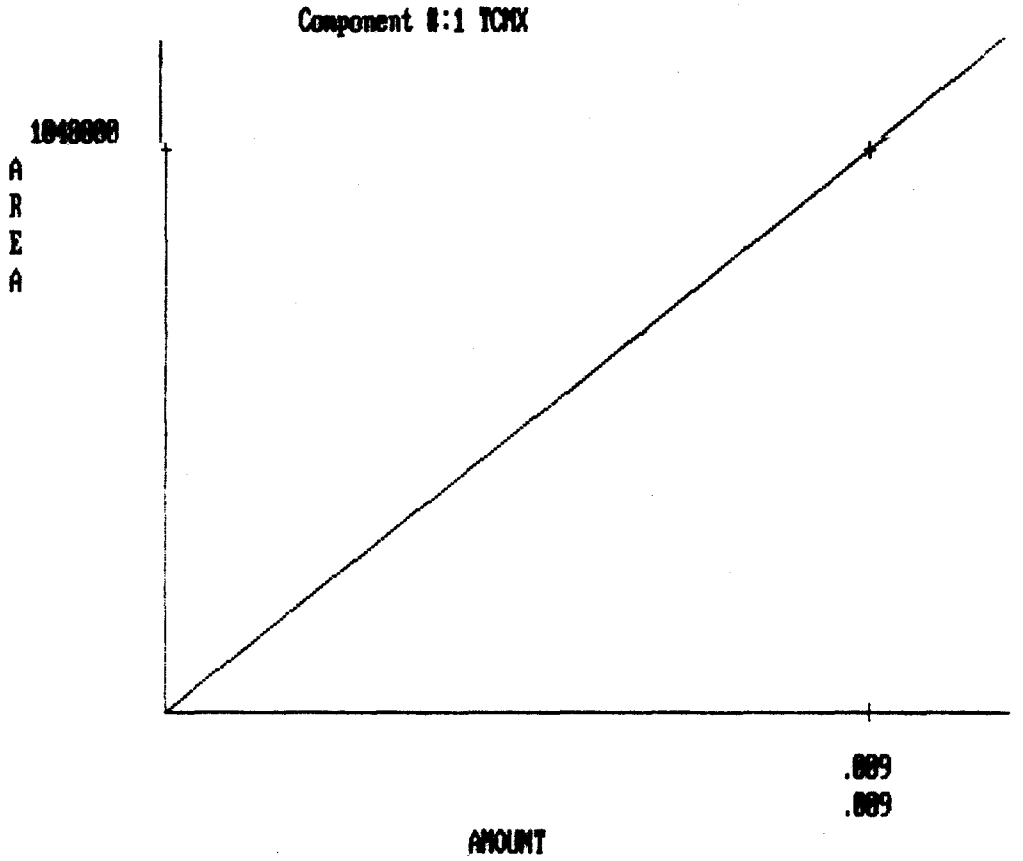


OKC
11/9/90

SECONDARY COLUMN

Output redirected to LPT1:
Output redirected to LPT1:

Method W:1PESTB
Sample SINGLE PHASE COLUMN - PESTICIDE MIX B
Operator DKC
Run date 10-30-1990 15:48:47 version: 155
Printed on 10-30-1990 AT 15:53:57
Straight Line fit



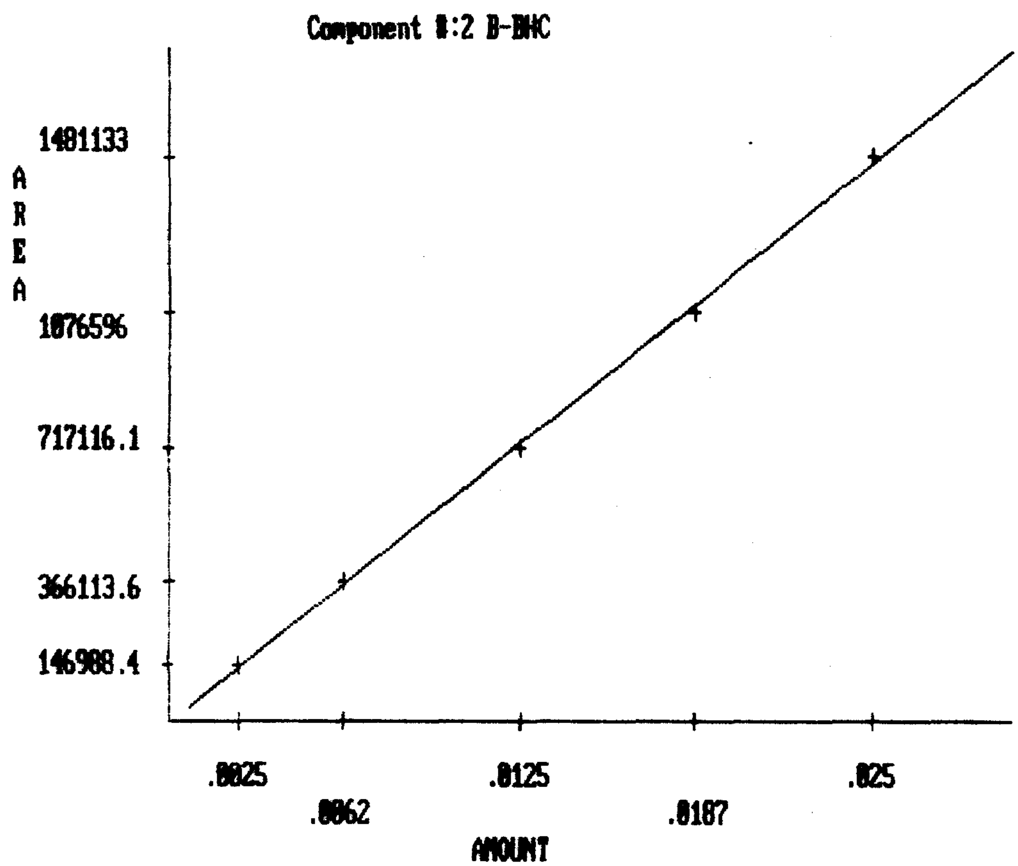
Component 1 = TCMX
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0090	1048800
2	0.0090	1048800
3	0.0090	1048800
4	0.0090	1048800
5	0.0090	1048800

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 1.1653E+08 * Amount + 0.0000E+00
Amount = 8.5812E-09 * Area + 0.0000E+00
Correlation Coefficient = 0.0000

SECOND/RY COLUMN

Method W:1PESTB
Sample SINGLE PHASE COLUMN - PESTICIDE MIX B
Operator DKC
Run date 10-30-1990 15:48:47 version: 155
Printed on 10-30-1990 AT 15:56:05
Straight Line fit

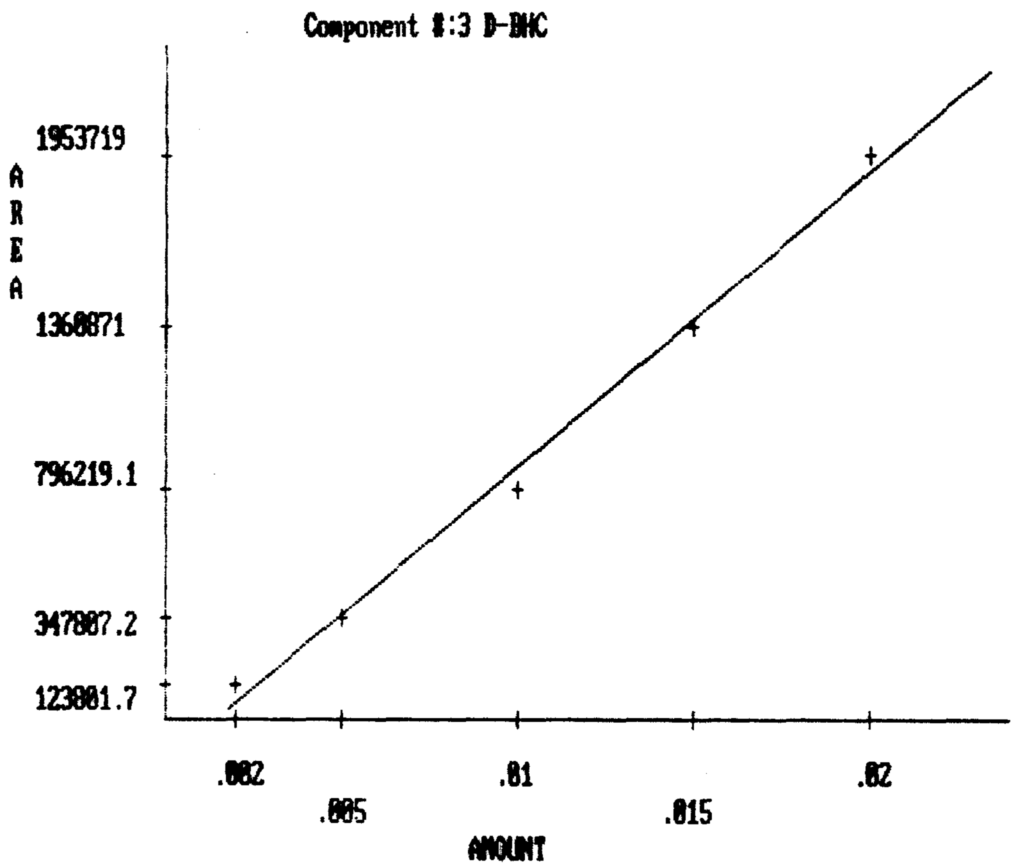


Component 2 = B-BHC
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0025	146988
2	0.0062	366114
3	0.0125	717116
4	0.0187	1076596
5	0.0250	1481133

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 5.8802E+07 * Amount + -5.6594E+03
Amount = 1.7006E-08 * Area + 9.6245E-05
Correlation Coefficient = 0.9993

Method W:1PESTB
Sample SINGLE PHASE COLUMN - PESTICIDE MIX B
Operator DKC
Run date 10-30-1990 15:48:47 version: 155
Printed on 10-30-1990 AT 15:57:17
Straight Line fit



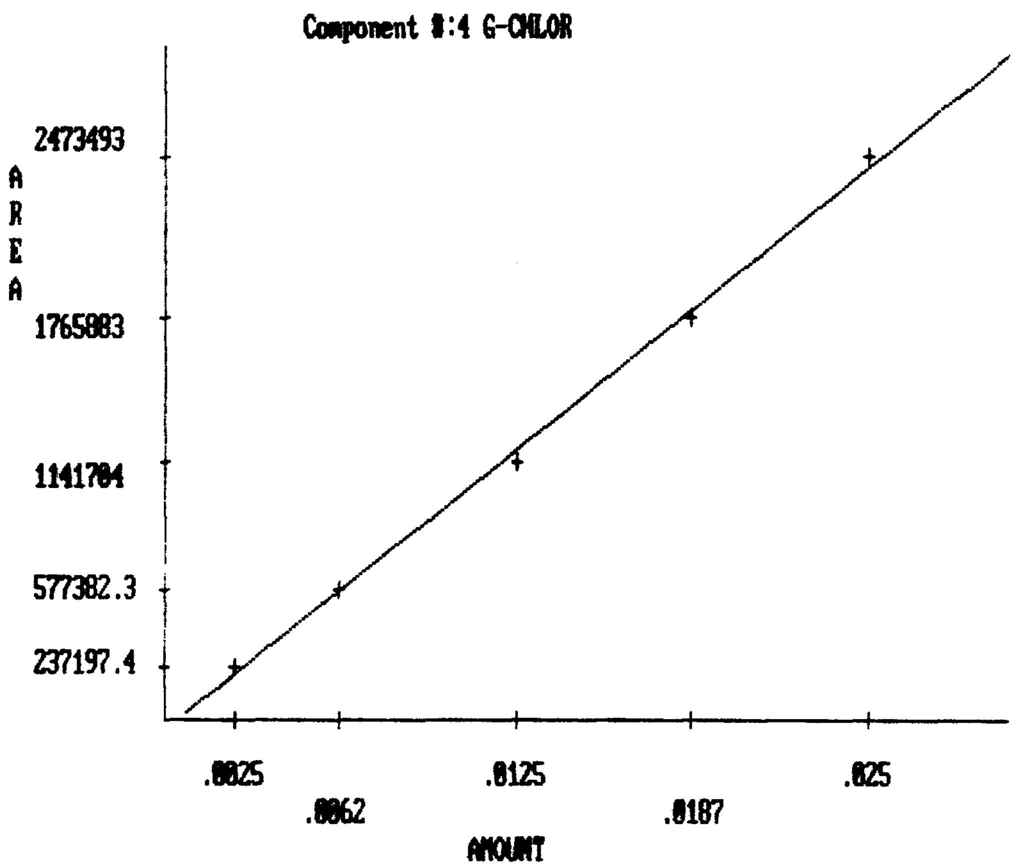
Component 3 = D-BHC
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0020	123802
2	0.0050	347807
3	0.0100	796219
4	0.0150	1360871
5	0.0200	1953719

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 1.0215E+08 * Amount + -1.4591E+05
Amount = 9.7892E-09 * Area + 1.4284E-03
Correlation Coefficient = 0.9934

SECONDARY COLUMN

Method W:1PESTB
Sample SINGLE PHASE COLUMN - PESTICIDE MIX B
Operator DKC
Run date 10-30-1990 15:48:47 version: 155
Printed on 10-30-1990 AT 15:58:27
Straight Line fit



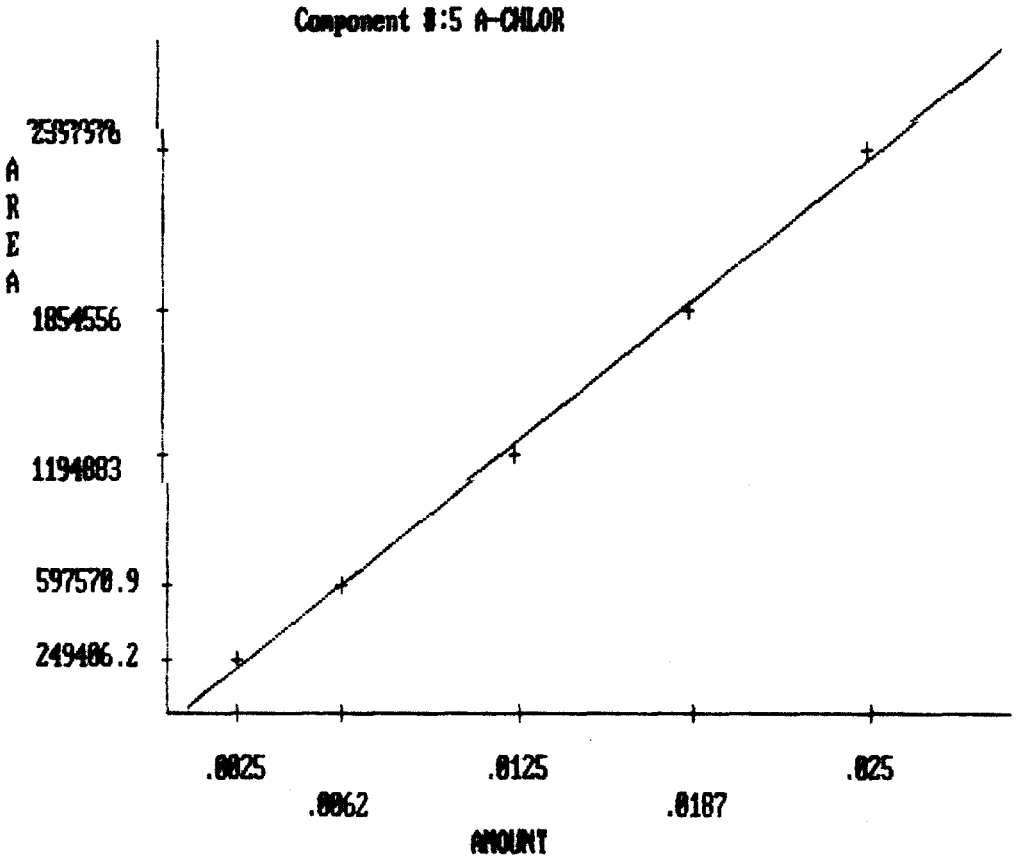
Component 4 = G-CHLOR
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0025	237197
2	0.0062	577382
3	0.0125	1141704
4	0.0187	1765883
5	0.0250	2473493

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 9.8682E+07 * Amount + -4.1766E+04
Amount = 1.0134E-08 * Area + 4.2323E-04
Correlation Coefficient = 0.9977

SECONDARY COLUMN

Method W:1PESTB
Sample SINGLE PHASE COLUMN - PESTICIDE MIX B
Operator DKC
Run date 10-30-1990 15:48:47 version: 155
Printed on 10-30-1990 AT 15:59:31
Straight Line fit



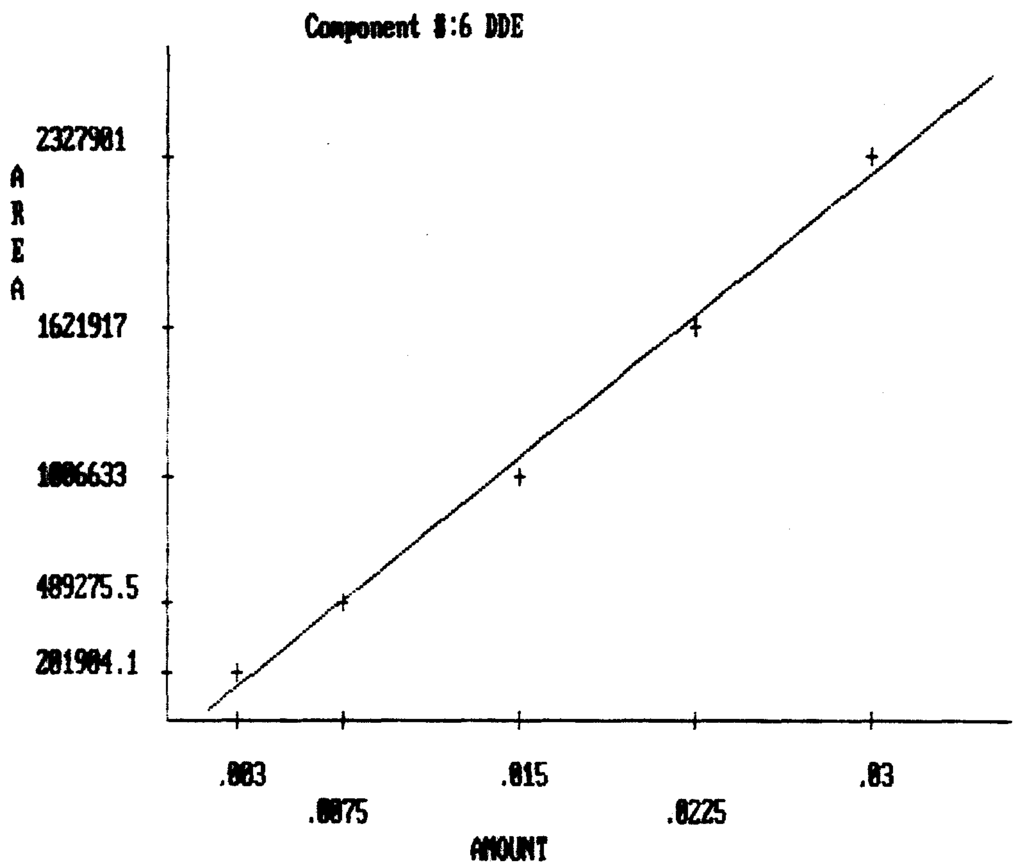
Component 5 = A-CHLOR
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0025	249406
2	0.0062	597571
3	0.0125	1194883
4	0.0187	1854556
5	0.0250	2597970

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 1.0382E+08 * Amount + -4.8748E+04
Amount = 9.6318E-09 * Area + 4.6953E-04
Correlation Coefficient = 0.9976

SECONDARY COLUMN

Method W:1PESTB
Sample SINGLE PHASE COLUMN - PESTICIDE MIX B
Operator DKC
Run date 10-30-1990 15:48:47 version: 155
Printed on 10-30-1990 AT 16:00:33
Straight Line fit



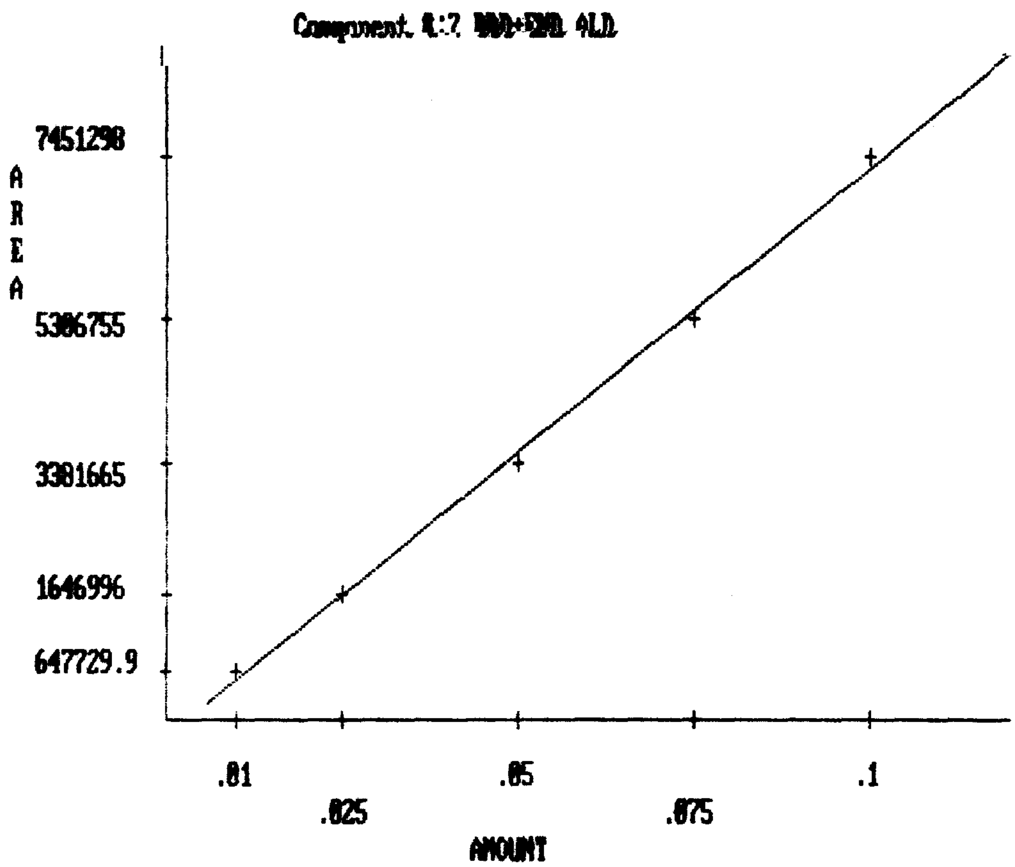
Component 6 = DDE
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0030	201904
2	0.0075	489276
3	0.0150	1006633
4	0.0225	1621917
5	0.0300	2327901

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 7.8386E+07 * Amount + -9.3300E+04
Amount = 1.2757E-08 * Area + 1.1903E-03
Correlation Coefficient = 0.9944

SECONDARY COLUMN

Method W:1PESTB
Sample SINGLE PHASE COLUMN - PESTICIDE MIX B
Operator DKC
Run date 10-30-1990 15:48:47 version: 155
Printed on 10-30-1990 AT 16:01:31
Straight Line fit



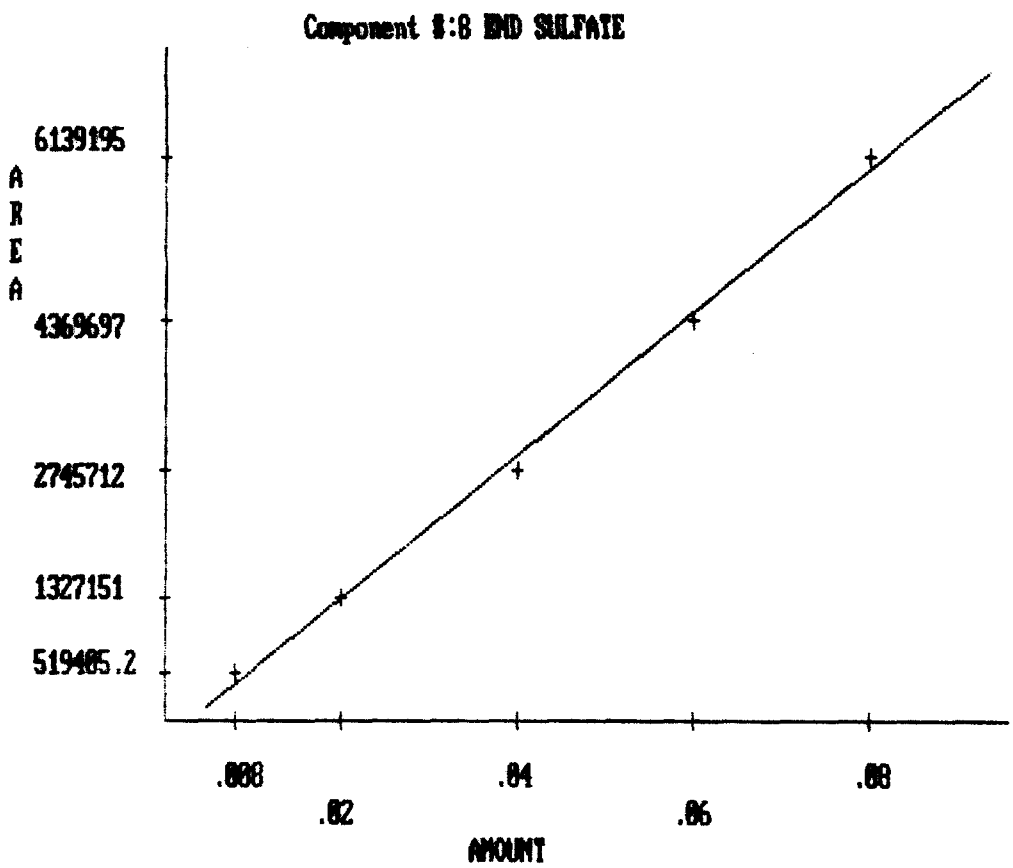
Component 7 = DDD+END ALD
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0100	647730
2	0.0250	1646996
3	0.0500	3381665
4	0.0750	5306755
5	0.1000	7451298

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 7.5287E+07 * Amount + -2.2805E+05
Amount = 1.3282E-08 * Area + 3.0290E-03
Correlation Coefficient = 0.9975

SECONDARY COLUMN

Method W:1PESTB
Sample SINGLE PHASE COLUMN - PESTICIDE MIX B
Operator DKC
Run date 10-30-1990 15:48:47 version: 155
Printed on 10-30-1990 AT 16:02:51
Straight Line fit



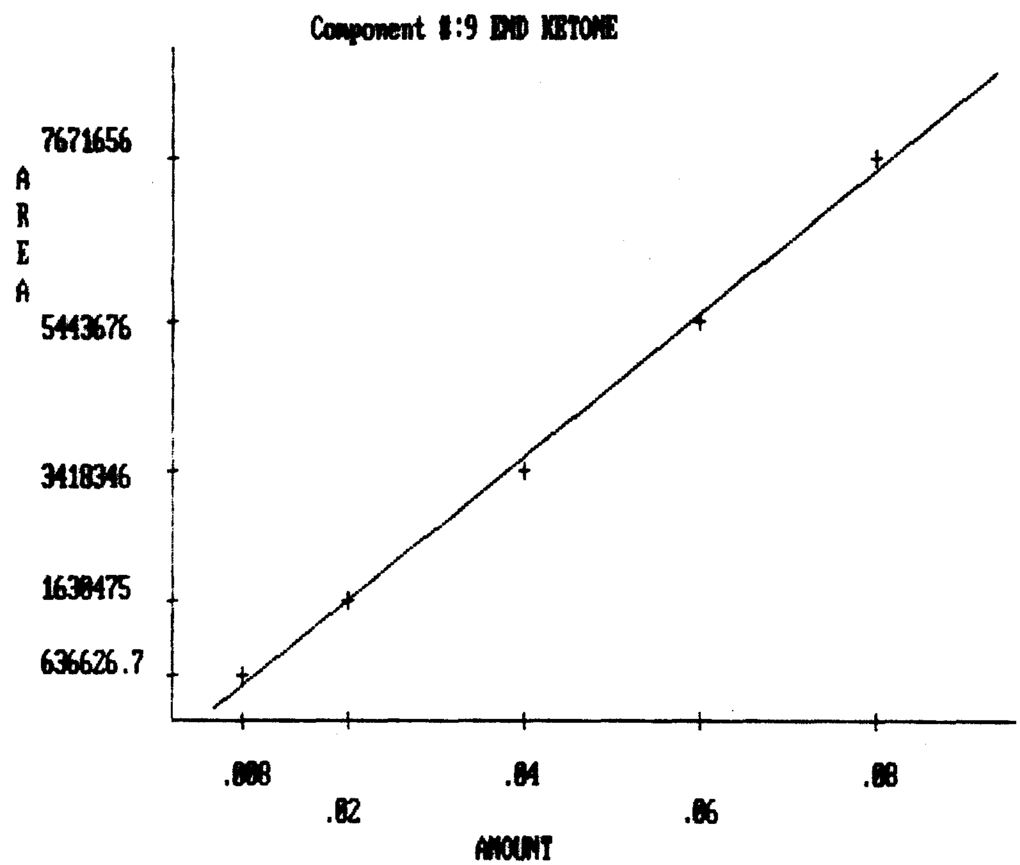
Component 8 = END SULFATE
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0080	519405
2	0.0200	1327151
3	0.0400	2745712
4	0.0600	4369697
5	0.0800	6139195

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 7.7872E+07 * Amount + -2.1923E+05
Amount = 1.2842E-08 * Area + 2.8153E-03
Correlation Coefficient = 0.9971

SECONDARY COLUMN

Method W:1PESTB
Sample SINGLE PHASE COLUMN - PESTICIDE MIX B
Operator DKC
Run date 10-30-1990 15:48:47 version: 155
Printed on 10-30-1990 AT 16:03:55
Straight Line fit



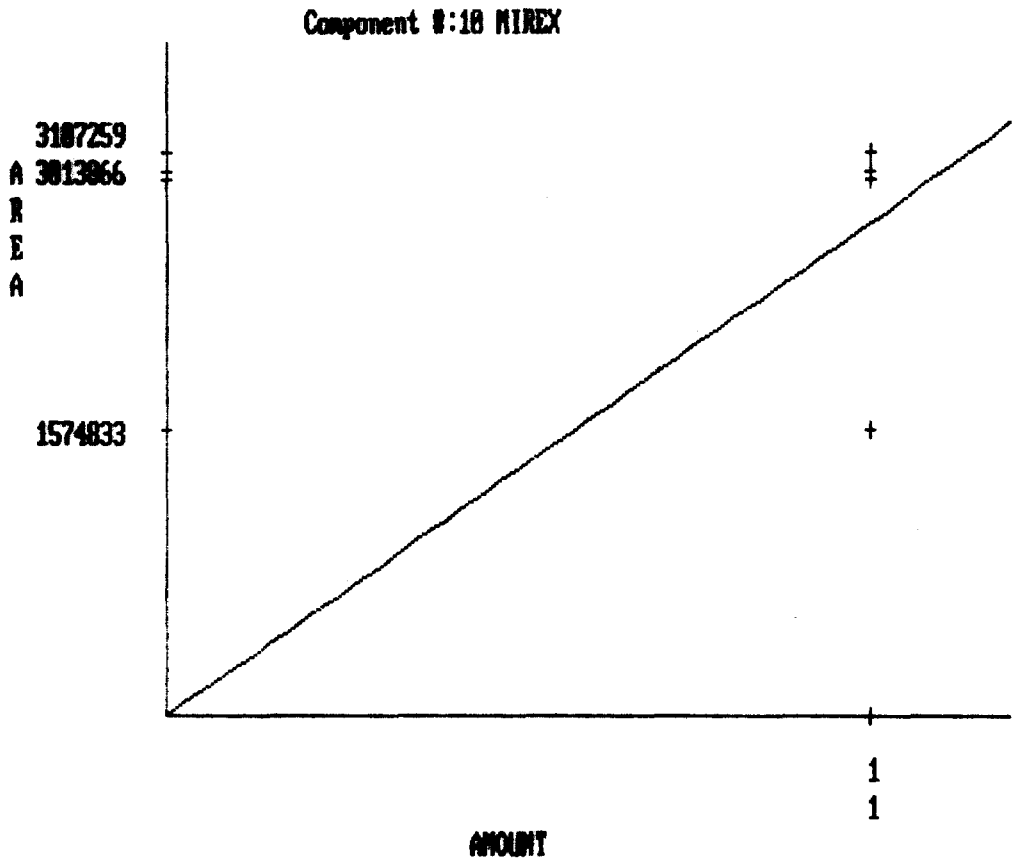
Component 9 = END KETONE
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	0.0080	636627
2	0.0200	1630475
3	0.0400	3418346
4	0.0600	5443676
5	0.0800	7671656

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 9.7525E+07 * Amount + -2.9688E+05
Amount = 1.0254E-08 * Area + 3.0441E-03
Correlation Coefficient = 0.9970

SECONDARY COLUMN

Method W:1PESTB
Sample SINGLE PHASE COLUMN - PESTICIDE MIX B
Operator DKC
Run date 10-30-1990 15:48:47 version: 155
Printed on 10-30-1990 AT 16:04:54
Straight Line fit



Component 10 = MIREX
EXTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA
1	1.0000	2959835
2	1.0000	2960915
3	1.0000	1574833
4	1.0000	3013866
5	1.0000	3107259

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area = 2.7233E+06 * Amount + 0.0000E+00
Amount = 3.6720E-07 * Area + 0.0000E+00
Correlation Coefficient = 0.0000

SECONDARY COLUMN

*** EXTERNAL STANDARD TABLE ******

********** 11-01-1990 15:48:01 Version 4.1 **********

Sample Name: PEST B L3 #3 Data File: W:1MAG22 *

* Date: 11-01-1990 01:59:43 Method: W:1PESTB1 11-01-1990 11:33:53 # 156*

* Interface: 0 Cycle#: 22 Operator DKC Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *

* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
5	1.95	B-BHC	0.0117	0.9550%	682005	117610	5.8	2	18	.8620	1.7147E-08
6	2.20	D-BHC	0.0089	0.7299%	767137	125893	6.1	2	18	.7633	1.1651E-08
11	5.90	G-CHLOR	0.0114	0.9312%	1083472	65130	16.6	2	18	.5698	1.0524E-08
12	6.53	A-CHLOR	0.0113	0.9264%	1128998	60223	18.7	2	18	.7731	1.0048E-08
13	7.41	DDE	0.0131	1.0701%	933853	44937	20.8	2	18	.6802	1.4032E-08
14	9.32	DDD+END ALD	0.0457	3.7327%	3213161	109127	29.4	2	18	.5405	1.4225E-08
15	10.87	END SULFATE	0.0361	2.9446%	2588653	83710	30.9	3	18	.4629	1.3929E-08
17	13.94	END KETONE	0.0360	2.9393%	3213347	85613	37.5	2	18	.3605	1.1201E-08
18	22.48	MIREX	~~1.0503~~	85.7708%	2860312	44286	64.6	1	18	0	3.6720E-07

TOTAL AMOUNT = 1.2245

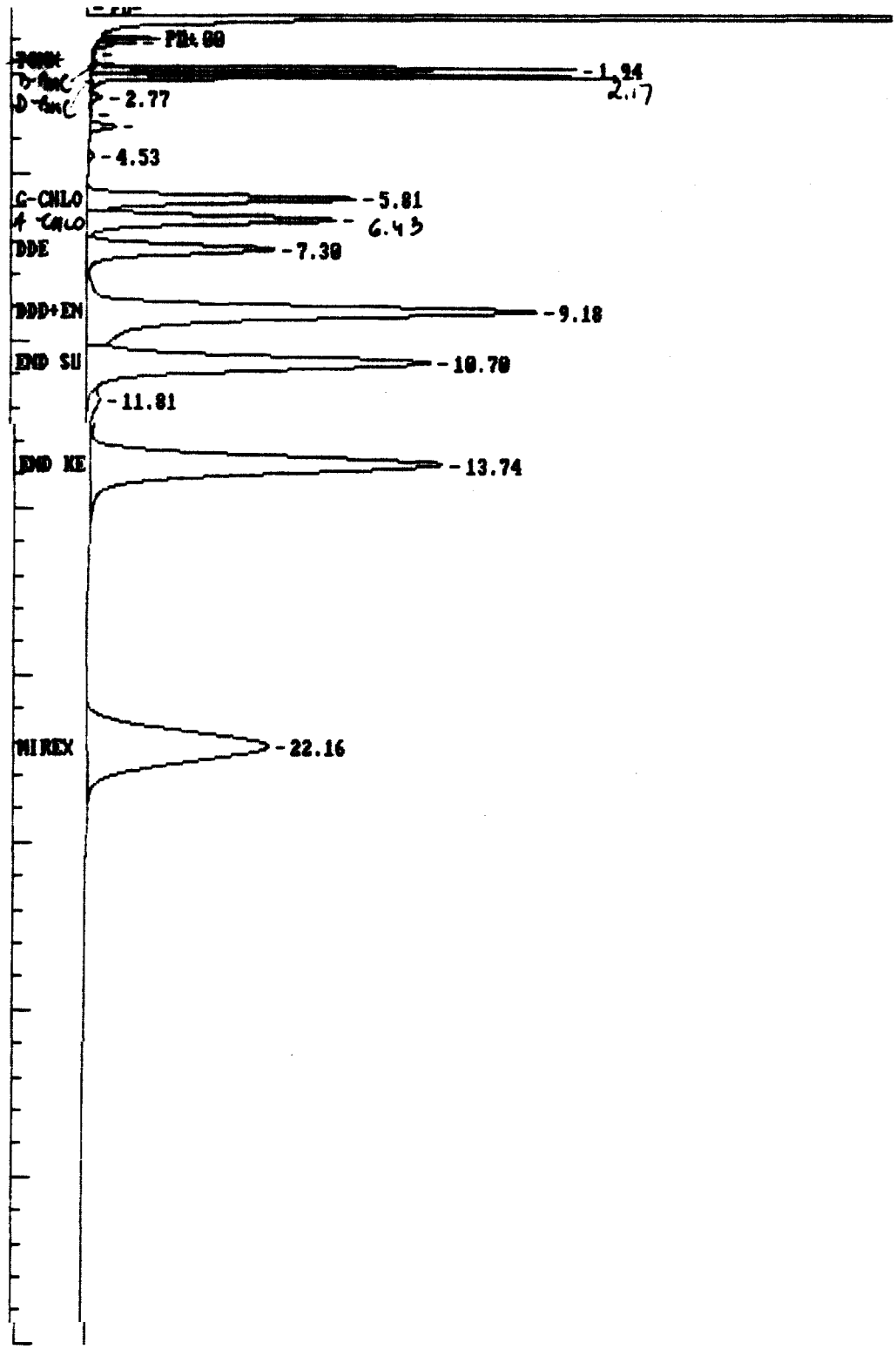
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.65	MIREX

KM
11/5/92

SECONDARY COLUMN

.le = W:1MAG13.PTS Printed on 11-01-1990 at 15:47:04
time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Range: 200 millivolts



WM
11/5/90

SECONDARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 11:53:02 Version 4.1 **********

* Sample Name: PEST B L3 #4 Data File: W:1MAG34 *
* Date: 11-01-1990 11:51:23 Method: W:1PESTB1 11-01-1990 11:33:53 # 156*
* Interface: 0 Cycle#: 34 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

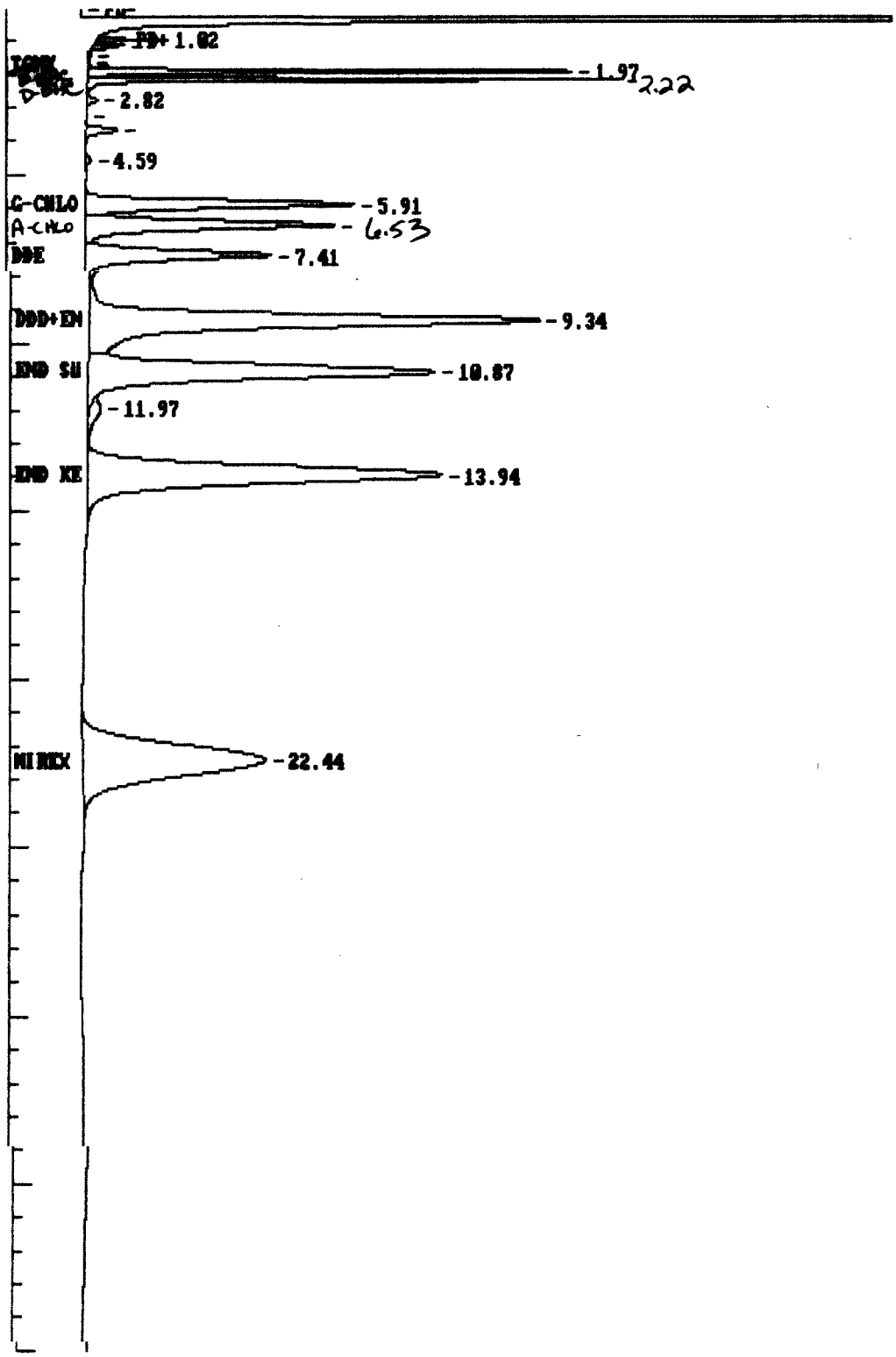
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~4~~	~~1.67~~	~~TGMX~~	~~0.0000~~	~~0.0019%~~	~~2763~~	~~433~~	~~6.4~~	~~2~~	~~19~~	~~1.160~~	~~0.5812E-09~~
6	1.97	B-BHC	0.0119	0.9651%	696815	118755	5.9	2	19	1.875	1.7144E-08
7	2.22	D-BHC	0.0091	0.7355%	784134	130717	6.0	2	19	1.677	1.1611E-08
12	5.91	G-CHLOR	0.0116	0.9336%	1098624	65998	16.6	2	19	1.004	1.0519E-08
13	6.53	A-CHLOR	0.0116	0.9380%	1156798	61214	18.9	2	19	.9231	1.0038E-08
14	7.41	DDE	0.0135	1.0873%	961724	45810	21.0	2	19	.8300	1.3995E-08
15	9.34	DDD+END ALD	0.0462	3.7288%	3246946	110581	29.4	2	19	.8706	1.4215E-08
16	10.87	END SULFATE	0.0364	2.9371%	2611891	85149	30.7	3	19	.6124	1.3920E-08
18	13.94	END KETONE	0.0364	2.9400%	3252266	86938	37.4	2	19	.5099	1.1190E-08
19	22.44	MIREX	~~1.0612~~	85.7327%	2890112	44911	64.4	1	19	0	3.6720E-07

TOTAL AMOUNT = 1.2378

SO 11/6/90

SECONDARY COLUMN

Data File = W:1MAG34.PTS Printed on 11-02-1990 at 11:53:23
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SB 11/6/90

SECONDARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 11:58:18 Version 4.1 **********

* Sample Name: PEST B L3 #5 Data File: W:1MAG43 *

* Date: 11-01-1990 17:24:59 Method: W:1PESTB1 11-01-1990 11:33:53 # 156*

* Interface: 0 Cycle#: 43 Operator DKC Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT/CONF~~ Detector 1: ECD ~~CONF~~ QUANT *

* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~ml~~	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.85	B-BHC	0.0115	0.9457%	668728	116706	5.7	2	17	.9390	1.7150E-08
4	2.10	D-BHC	0.0091	0.7469%	779393	132044	5.9	2	17	1.459	1.1622E-08
10	5.59	G-CHLOR	0.0114	0.9363%	1078783	65935	16.4	2	17	.6774	1.0526E-08
11	6.18	A-CHLOR	0.0113	0.9339%	1127120	61164	18.4	2	17	.5922	1.0048E-08
12	7.03	DDE	0.0132	1.0917%	944501	46103	20.5	2	17	.7019	1.4018E-08
13	8.83	DDD+END ALD	0.0454	3.7455%	3191787	110362	28.9	2	17	.5442	1.4231E-08
14	10.30	END SULFATE	0.0367	3.0238%	2636453	85793	30.7	3	17	.4394	1.3909E-08
16	13.21	END KETONE	0.0366	3.0191%	3273849	87228	37.5	2	17	.2876	1.1184E-08
17	21.31	MIREX	~~1.0376~~	85.5571%	2825714	44566	63.4	1	17	0	3.6720E-07

TOTAL AMOUNT = 1.2127

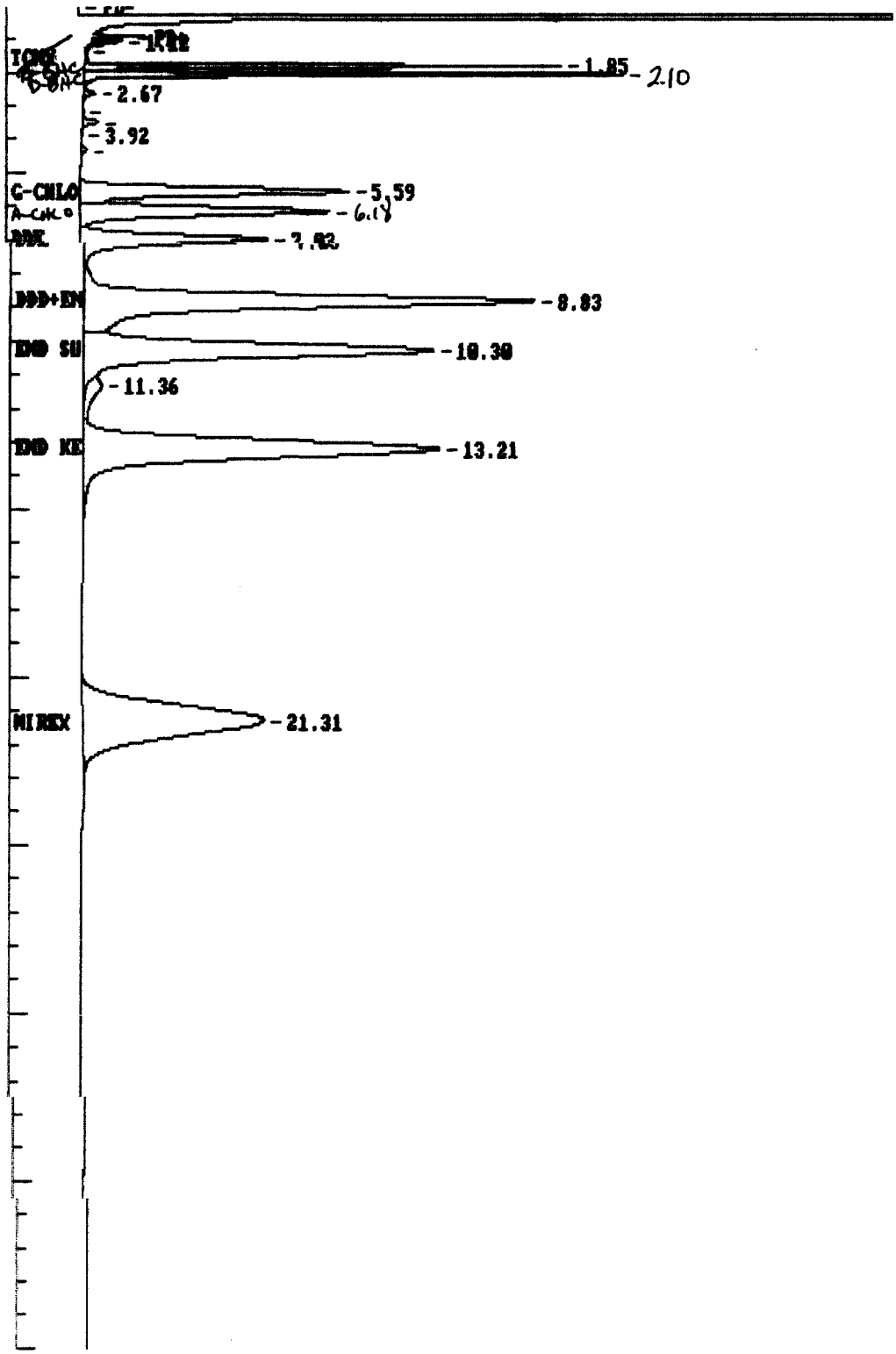
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.57	MIREX

SO 11/6/90

SECONDARY COLUMN

Data File = W:1MAG43.PTS Printed on 11-02-1990 at 11:58:40
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



DKC
11/9/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-01-1990 08:55:00 Version 4.1 **********

* Sample Name: PCB1242 L1 Data File: W:2IC17 *
* Date: 10-29-1990 01:17:48 Method: W:2 1242R 11-01-1990 08:51:33 # 209*
* Interface: 0 Cycle#: 17 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.95	1242-1	0.0121	17.7065%	55704	10034	5.6	1	24	24	-.3096	2.1800E-07
6	2.52	1242-2	0.0118	17.2000%	125502	15454	8.1	2	24	24	.5423	9.3992E-08
9	3.27	1242-3	0.0117	17.0901%	229767	25524	9.0	2	24	24	0	5.1011E-08
10	3.57	1242-4	0.0135	19.7151%	130634	11010	11.9	2	24	24	-.3885	1.0350E-07
16	6.18	1242-5	0.0194	28.2883%	169634	7006	24.2	2	24	24	.2713	1.1437E-07
24	24.63	MIREX	1.0000	0.0000%	2396010	40129	59.7	1	24	24	0	4.1736E-07

TOTAL AMOUNT = 0.0686

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.40	MIREX

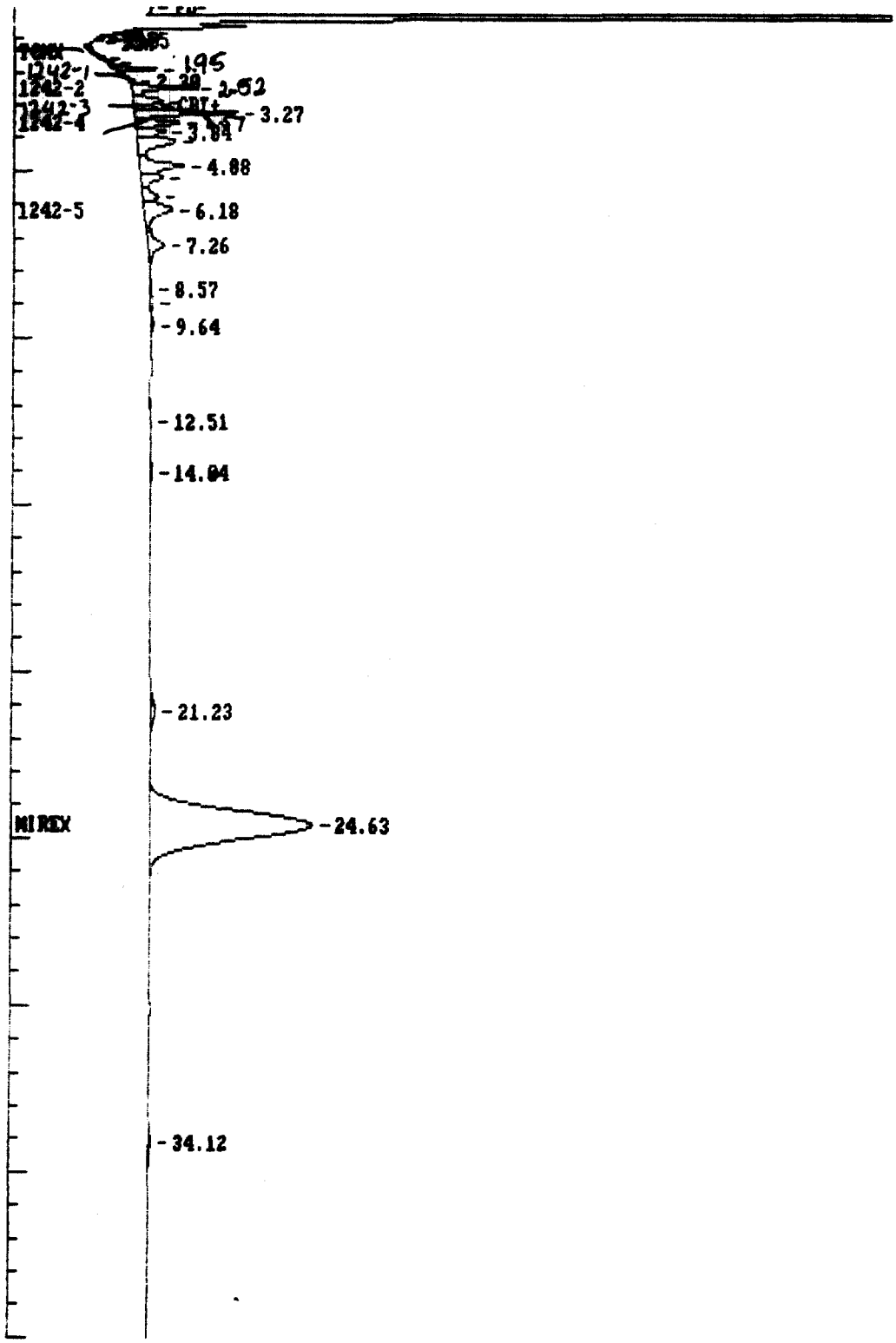
~~AV = 0.0129~~
Average = 0.0137

11/6/90

KM
11/6/90

PRIMARY COLUMN

Areas, times, and heights stored in: W:2IC17.ATB
Data File = W:2IC17.PTS Printed on 11-01-1990 at 08:55:19
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



WM
11/6/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-01-1990 08:56:18 Version 4.1 **********

* Sample Name: PCB1242 L2 Data File: W:2IC18 *
* Date: 10-29-1990 02:01:54 Method: W:2 1242R 11-01-1990 08:51:33 # 209*
* Interface: 0 Cycle#: 18 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ conf Detector 1: ECD ~~CONF~~ quant *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA.~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.95	1242-1	0.1112	21.1883%	197158	33681	5.9	1	26	26	-.5120	5.6409E-07
6	2.52	1242-2	0.1111	21.1584%	380896	50298	7.6	2	26	26	.3383	2.9157E-07
9	3.27	1242-3	0.1114	21.2245%	680892	78006	8.7	2	26	26	-.1710	1.6361E-07
10	3.59	1242-4	0.1053	20.0560%	314677	30874	10.2	2	26	26	-.1262	3.3454E-07
16	6.18	1242-5	0.0859	16.3727%	392265	20385	19.2	2	26	26	0	2.1908E-07
26	24.68	MIREX	1.0000	0.0000%	2393825	40107	59.7	1	26	26	0	4.1774E-07

TOTAL AMOUNT = 0.5249

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.40	MIREX

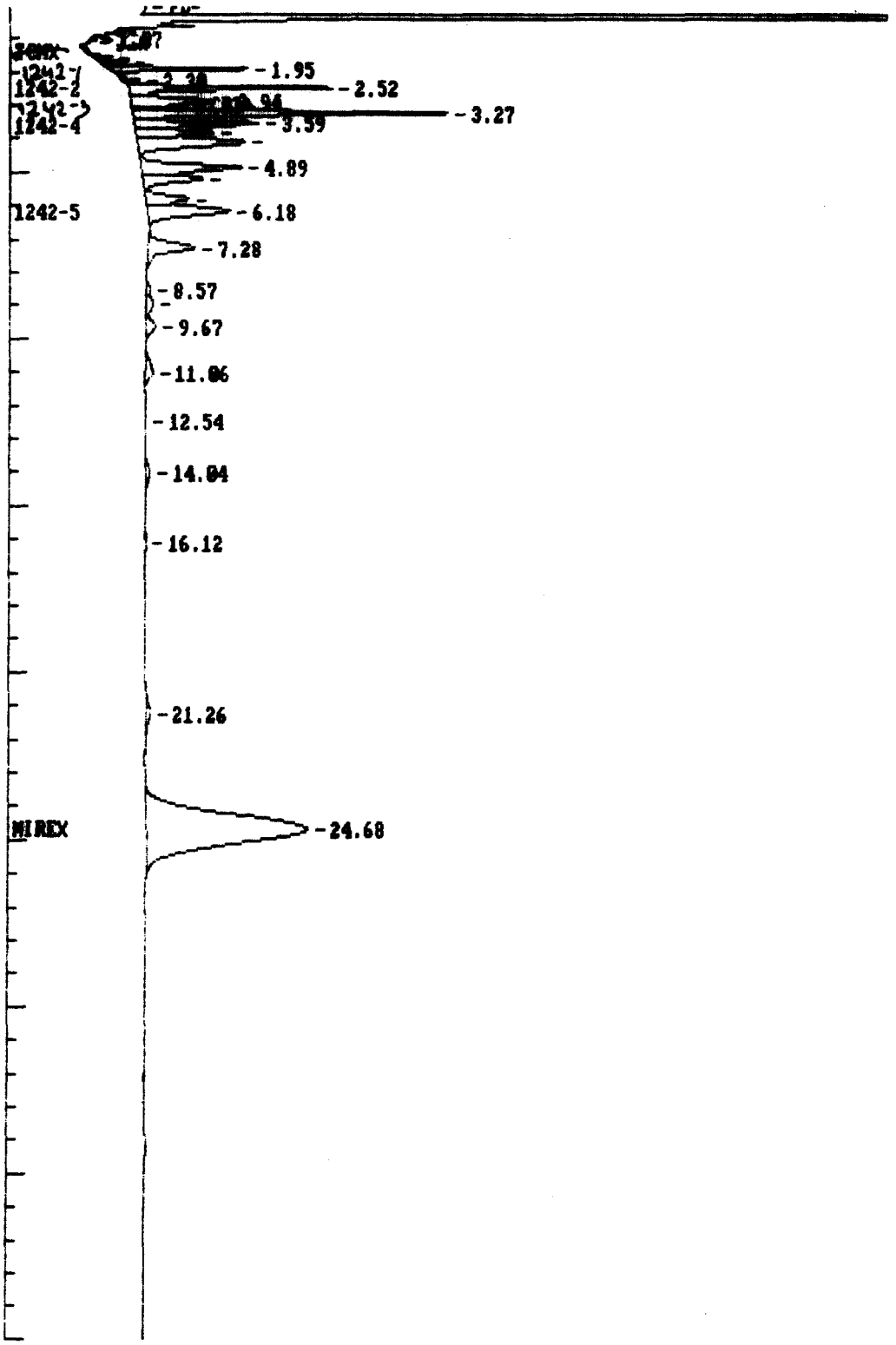
~~AV: 0.1049~~

Ave = 0.1050
(n=5)

11/6/90

PRIMARY COLUMN

Areas, times, and heights stored in: W:2IC18.ATB
Data File = W:2IC18.PTS Printed on 11-01-1990 at 08:56:36
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/6/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-01-1990 08:57:37 Version 4.1 **********

* Sample Name: PCB1242 L3 Data File: W:2IC19 *
* Date: 10-29-1990 02:45:58 Method: W:2 1242R 11-01-1990 08:51:33 # 209*
* Interface: 0 Cycle#: 19 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/KML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.95	1242-1	0.2269	19.5566%	362140	59502	6.1	1	26	26	-.6464	6.2665E-07
6	2.52	1242-2	0.2269	19.5544%	678541	89347	7.6	2	26	26	.2027	3.3441E-07
9	3.29	1242-3	0.2274	19.5993%	1205204	137673	8.8	2	26	26	.2026	1.8871E-07
10	3.59	1242-4	0.2316	19.9568%	567728	54910	10.3	2	26	26	-.2612	4.0790E-07
16	6.20	1242-5	0.2475	21.3329%	932594	41137	22.7	2	26	26	.2027	2.6544E-07
26	24.72	MIREX	1.0000	0.0000%	2391811	39889	60.0	1	26	26	0	4.1809E-07

TOTAL AMOUNT = 1.1604

PEAKS NOT FOUND IN THIS RUN

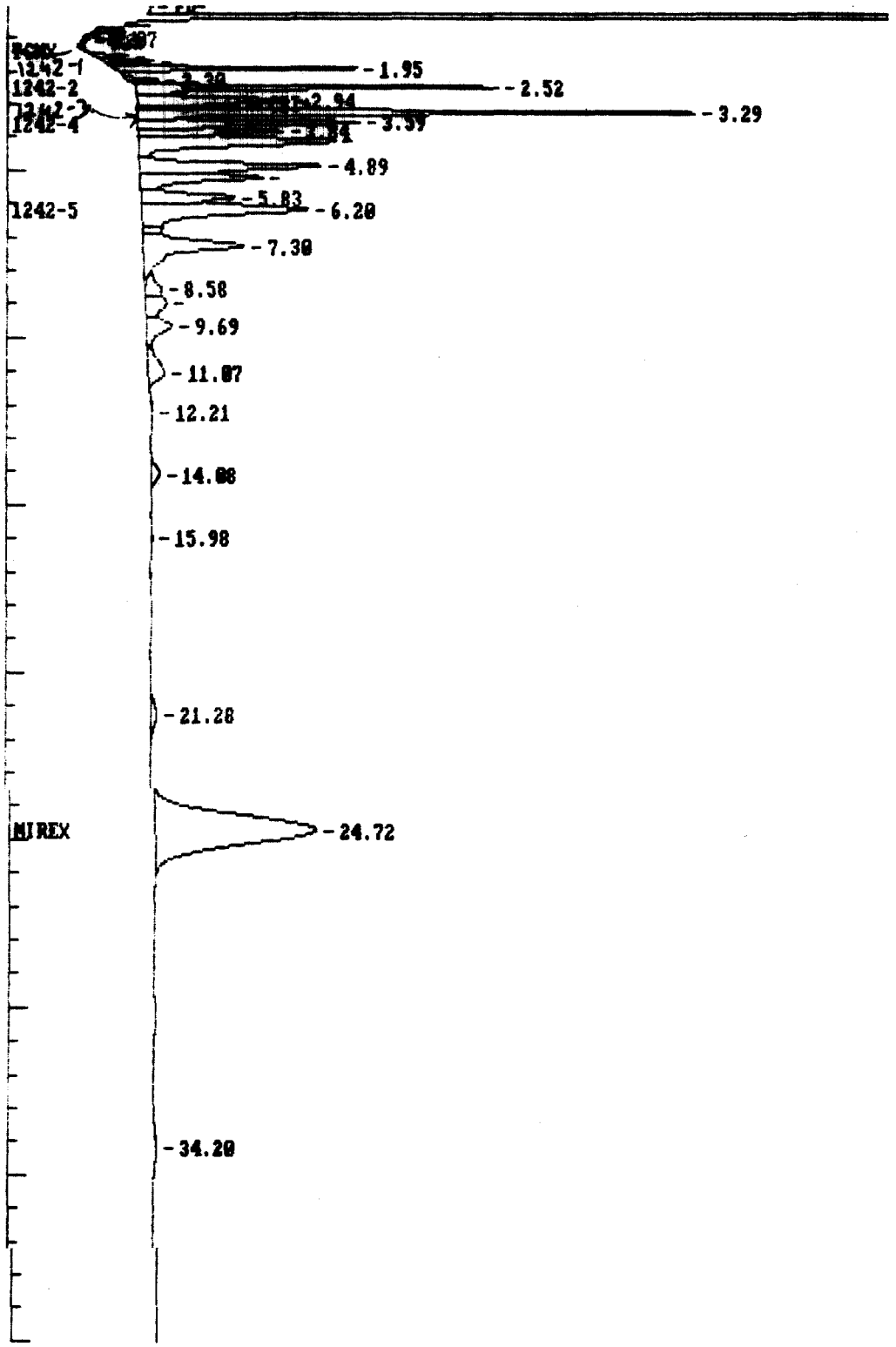
NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.40	MIREX

AU= 0.2321

WM
11/6/90

PRIMARY COLUMN

Areas, times, and heights stored in: W:2IC19.ATB
Data File = W:2IC19.PTS Printed on 11-01-1990 at 08:57:55
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/6/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-01-1990 08:58:59 Version 4.1 **********

* Sample Name: PCB1242 L4 Data File: W:2IC20 *
* Date: 10-29-1990 03:30:05 Method: W:2 1242R 11-01-1990 08:51:33 # 209*
* Interface: 0 Cycle#: 20 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~CONF Detector 1: ECD ~~CONF~~QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/kML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~2~~	~~1.40~~	~~TCMX~~	~~0.0001~~	~~0.0044%~~	~~6072~~	~~522~~	~~11.6~~	~~1~~	~~28~~	~~28~~	~~.0674~~	~~1.8704E-08~~
5	1.97	1242-1	0.5176	19.9801%	782524	126044	6.2	1	28	28	0	6.6143E-07
7	2.52	1242-2	0.5190	20.0355%	1440130	188948	7.6	2	28	28	0	3.6040E-07
10	3.29	1242-3	0.5172	19.9647%	2534135	294390	8.6	2	28	28	0	2.0409E-07
11	3.61	1242-4	0.5190	20.0333%	1152324	113851	10.1	2	28	28	0	4.5036E-07
17	6.20	1242-5	0.5176	19.9821%	1849398	85534	21.6	3	28	28	0	2.7990E-07
28	24.75	MIREX	1.0000	0.0000%	2409025	40189	59.9	1	28	28	0	4.1511E-07

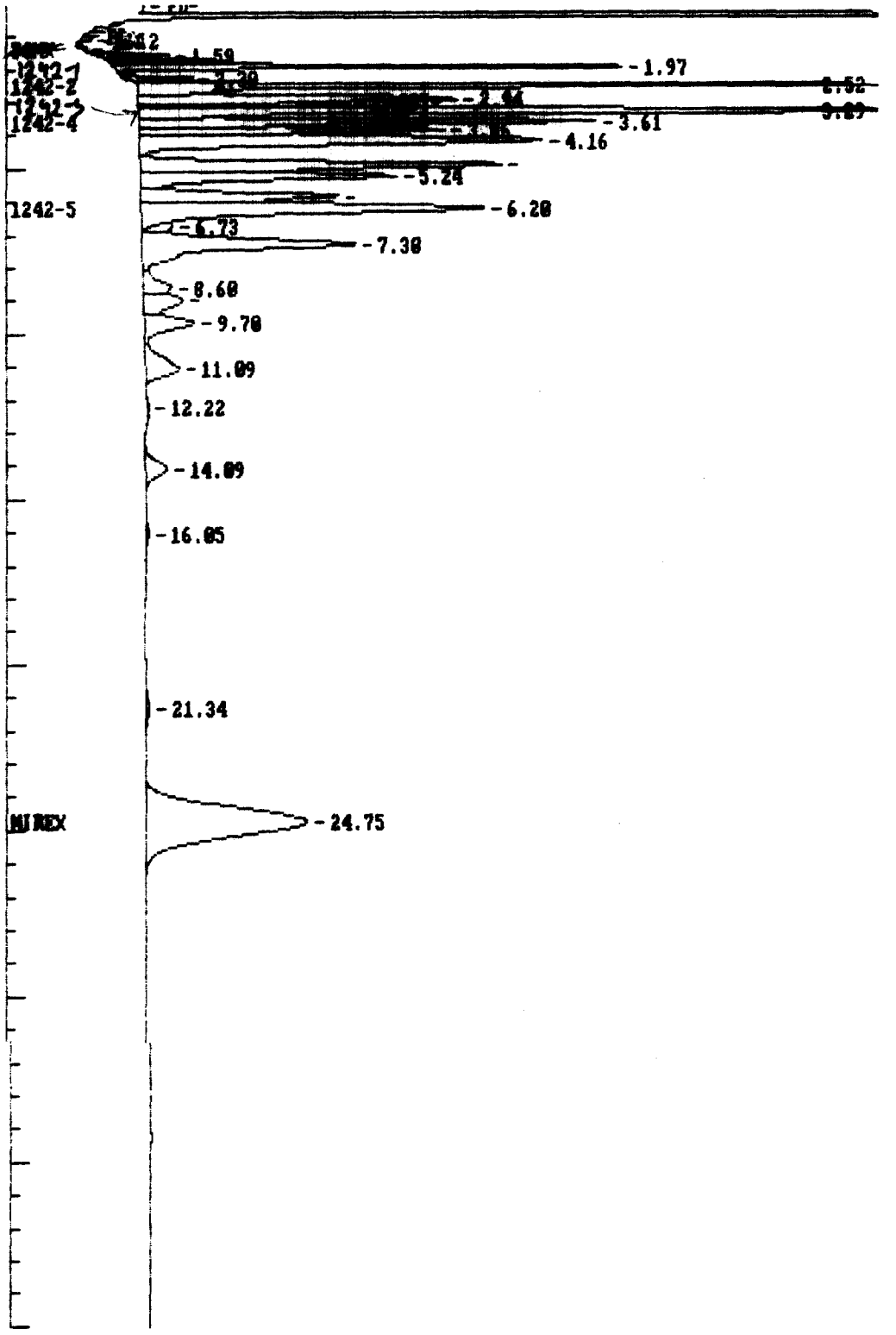
TOTAL AMOUNT = 2.5905

AV=0.5181

UM
11/6/90

PRIMARY COLUMN

Areas, times, and heights stored in: W:2IC20.ATB
Data File = W:2IC20.PTS Printed on 11-01-1990 at 08:59:17
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KOT
11/6/90

PRIMARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-01-1990 09:00:21 Version 4.1 **********************
* Sample Name: PCB1242 L5                         Data File: W:2IC21        *
* Date: 10-29-1990 04:12:12 Method: W:2 1242R  11-01-1990 08:51:33  #  209*
* Interface: 0   Cycle#:  21   Operator DKC Channel#: 1    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*****************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*           Detector 0: ECD QUANT CONF        Detector 1: ECD CONF QUANT    *
* Misc. Information: PRIMARY COLUMN                   PERFORMANCE EVA       *
*****************************************************************************
Starting Delay:    0.00                  Ending retention time:   40.00
Area reject:          0                  One sample per   1.002 sec.
Amount injected:         1.00            Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:           1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~2~~	~~1.40~~	~~TCMX~~	~~0.0002~~	~~0.0042%~~	~~8222~~	~~892~~	~~9.2 1~~	~~28~~	~~28~~	~~0~~	~~1.8734E-05~~
5	1.97	1242-1	0.7321	20.0258%	1089167	175920	6.2 1	28	28	0	6.7219E-07
7	2.52	1242-2	0.7312	20.0010%	1986650	261364	7.6 2	28	28	0	3.6806E-07
10	3.29	1242-3	0.7323	20.0296%	3508524	411287	8.5 2	28	28	0	2.0871E-07
11	3.61	1242-4	0.7307	19.9860%	1577446	157562	10.0 2	28	28	0	4.6320E-07
17	6.20	1242-5	0.7295	19.9535%	2559136	118117	21.7 3	28	28	0	2.8505E-07
28	24.77	MIREX	1.0000	0.0000%	2405204	40253	59.8 1	28	28	0	4.1577E-07

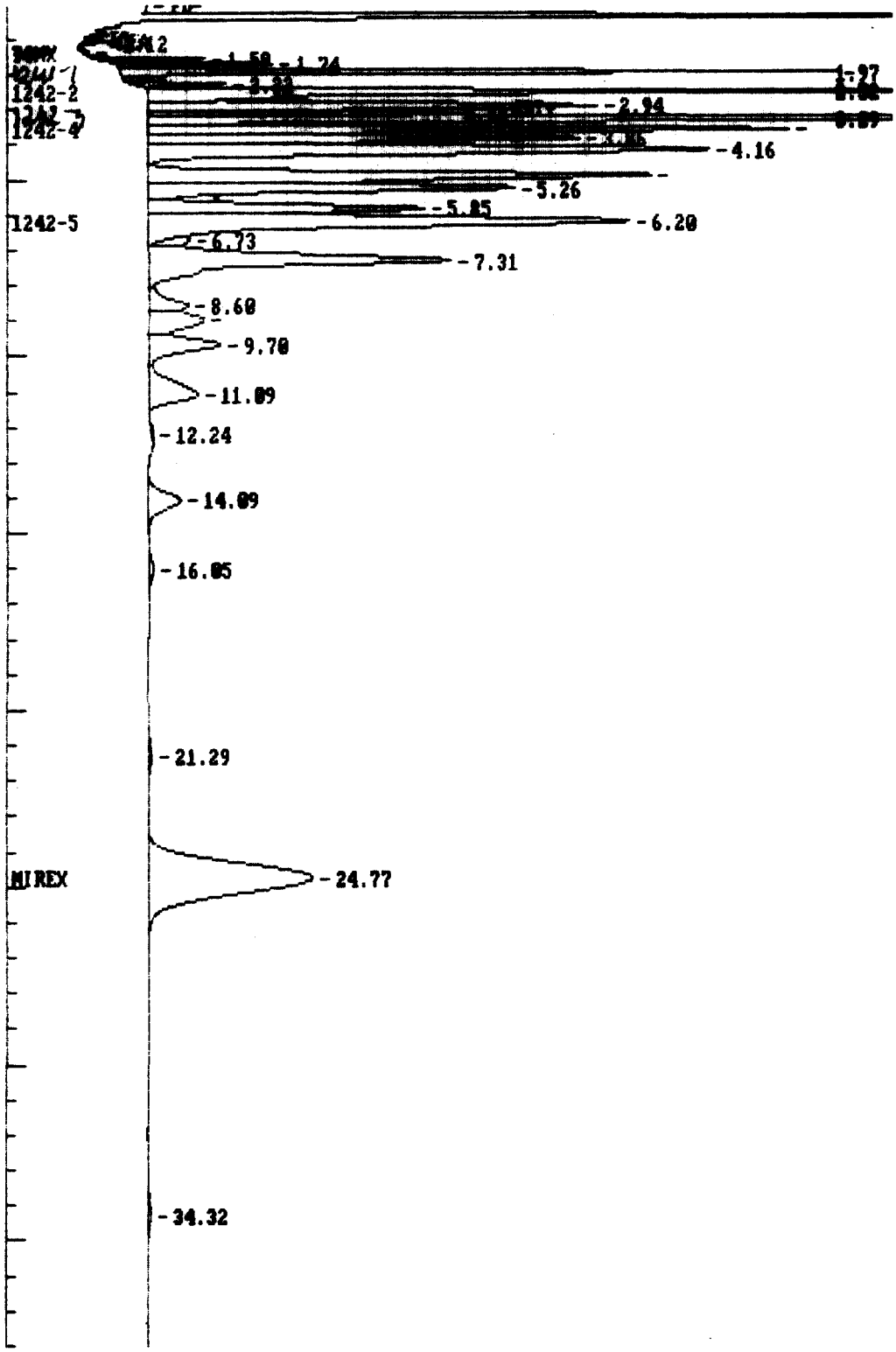
TOTAL AMOUNT = 3.6559

AV- 0.7312

DKC
11/6/90

PRIMARY COLUMN

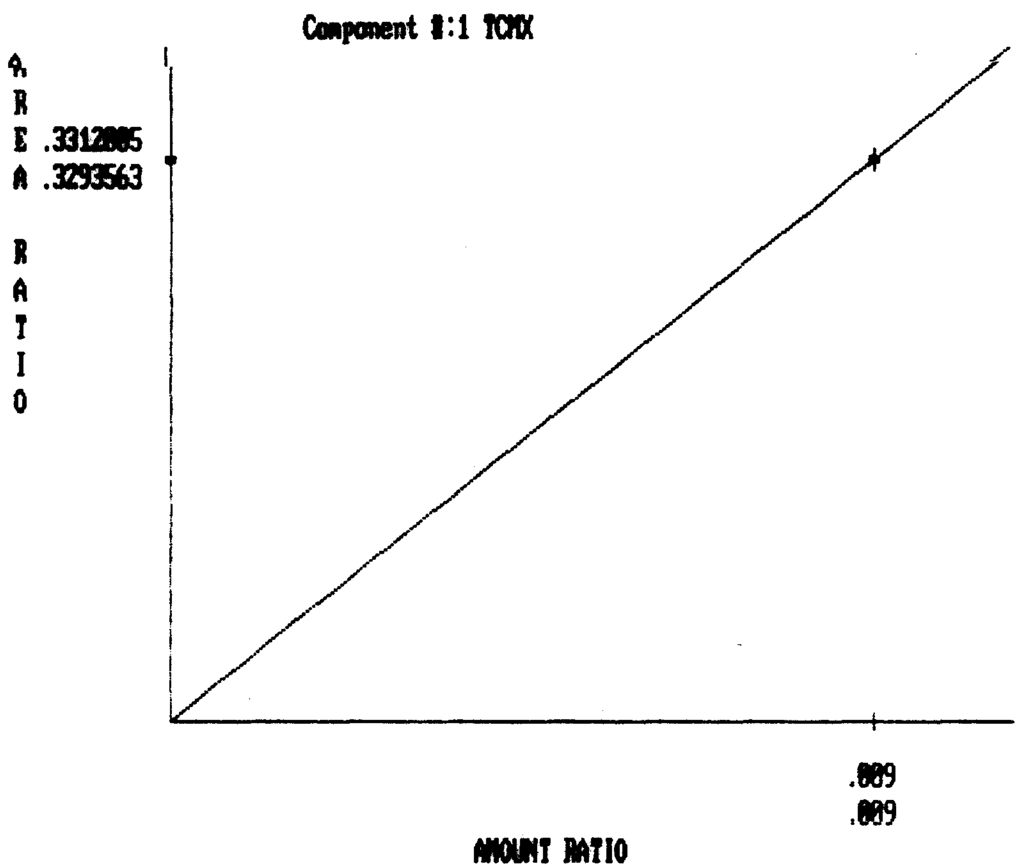
Areas, times, and heights stored in: W:2IC21.ATB
Data File = W:2IC21.PTS Printed on 11-01-1990 at 09:00:40
Start time: 0.00 min. Stop time: 38.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

PRIMARY COLUMN

Method W:2 1242R
Sample MIXED PHASE COLUMN - PCB 1242
Operator DKC
Run date 11-01-1990 09:16:02 version: 210
Printed on 11-01-1990 AT 09:16:55
Straight Line fit

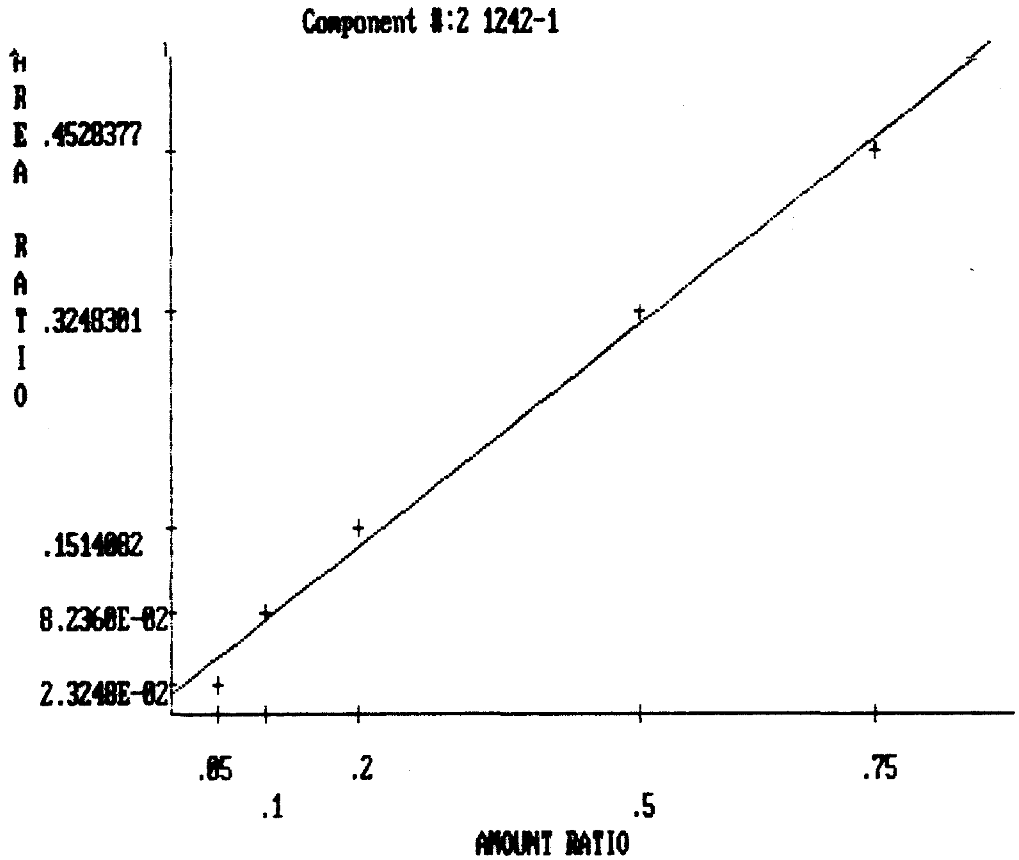


Component 1 = TCMX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0090	792169	0.0090	0.3306
2	0.0090	792169	0.0090	0.3309
3	0.0090	792169	0.0090	0.3312
4	0.0090	792169	0.0090	0.3288
5	0.0090	792169	0.0090	0.3294

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.6687E+01 * Amt ratio + 0.0000E+00
Amt ratio = 2.7257E-02 * Area ratio + 0.0000E+00
Correlation Coefficient = 0.0000

PRIMARY COLUMN



Component 2 = 1242-1

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	55704	0.0500	0.0232
2	0.1000	197158	0.1000	0.0824
3	0.2000	362140	0.2000	0.1514
4	0.5000	782524	0.5000	0.3248
5	0.7500	1089167	0.7500	0.4528

Y = SLOPE * X + INTERCEPT

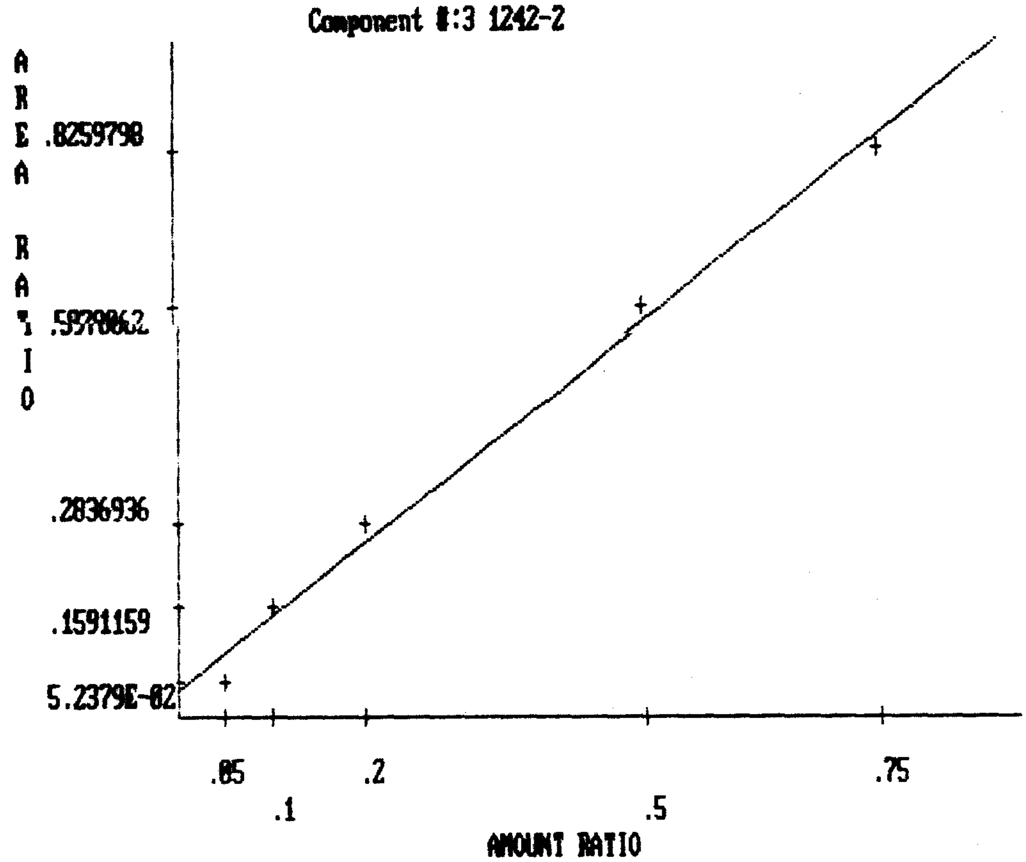
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 5.9667E-01 * Amt ratio + 1.6003E-02

Amt ratio = 1.6760E+00 * Area ratio + -2.6821E-02

Correlation Coefficient = 0.9918

PRIMARY COLUMN



Component 3 = 1242-2

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	125502	0.0500	0.0524
2	0.1000	380896	0.1000	0.1591
3	0.2000	678541	0.2000	0.2837
4	0.5000	1440130	0.5000	0.5978
5	0.7500	1986650	0.7500	0.8260

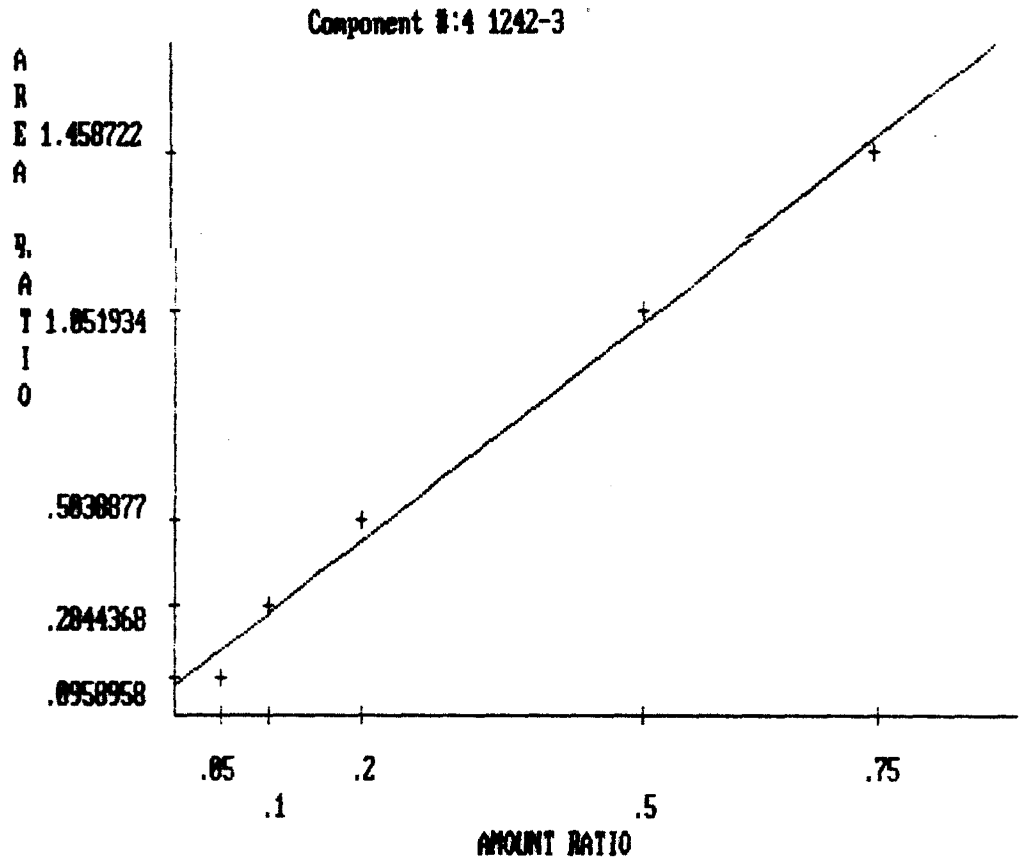
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 1.0753E+00 * Amt ratio + 3.9695E-02

Amt ratio = 9.2996E-01 * Area ratio + -3.6915E-02

Correlation Coefficient = 0.9915

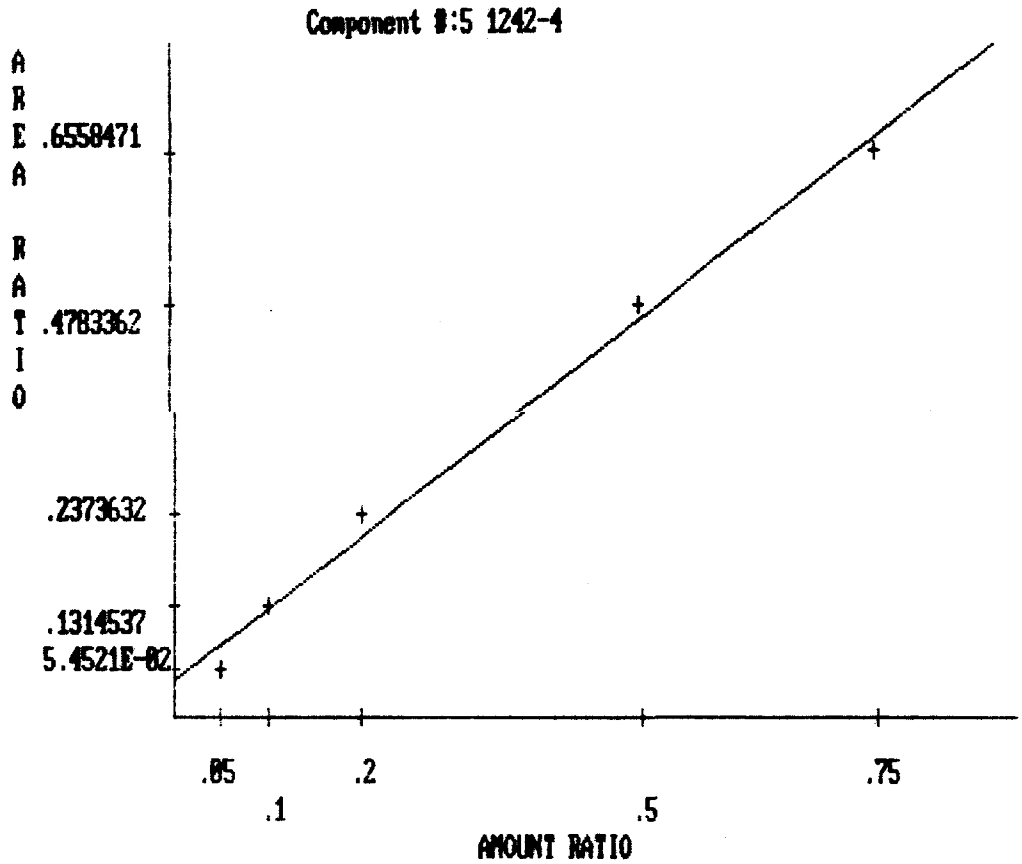


Component 4 = 1242-3
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	229767	0.0500	0.0959
2	0.1000	680892	0.1000	0.2844
3	0.2000	1205204	0.2000	0.5039
4	0.5000	2534135	0.5000	1.0519
5	0.7500	3508524	0.7500	1.4587

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.8914E+00 * Amt ratio + 7.3727E-02
Amt ratio = 5.2871E-01 * Area ratio + -3.8980E-02
Correlation Coefficient = 0.9917

PRIMARY COLUMN

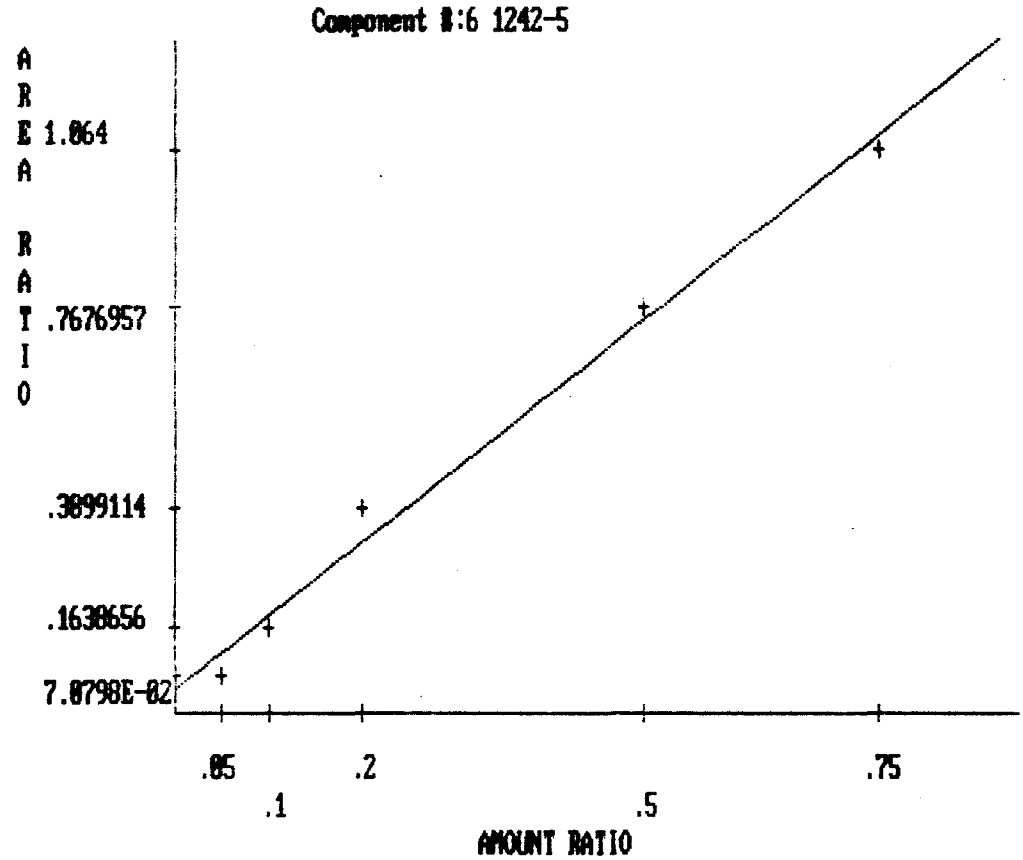


Component 5 = 1242-4
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	130634	0.0500	0.0545
2	0.1000	314677	0.1000	0.1315
3	0.2000	567728	0.2000	0.2374
4	0.5000	1152324	0.5000	0.4783
5	0.7500	1577446	0.7500	0.6558

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 8.3850E-01 * Amt ratio + 4.3184E-02
Amt ratio = 1.1926E+00 * Area ratio + -5.1502E-02
Correlation Coefficient = 0.9913

PRIMARY COLUMN



Component 6 = 1242-5

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	169634	0.0500	0.0708
2	0.1000	392266	0.1000	0.1639
3	0.2000	932594	0.2000	0.3899
4	0.5000	1849398	0.5000	0.7677
5	0.7500	2559136	0.7500	1.0640

Y = SLOPE * X + INTERCEPT

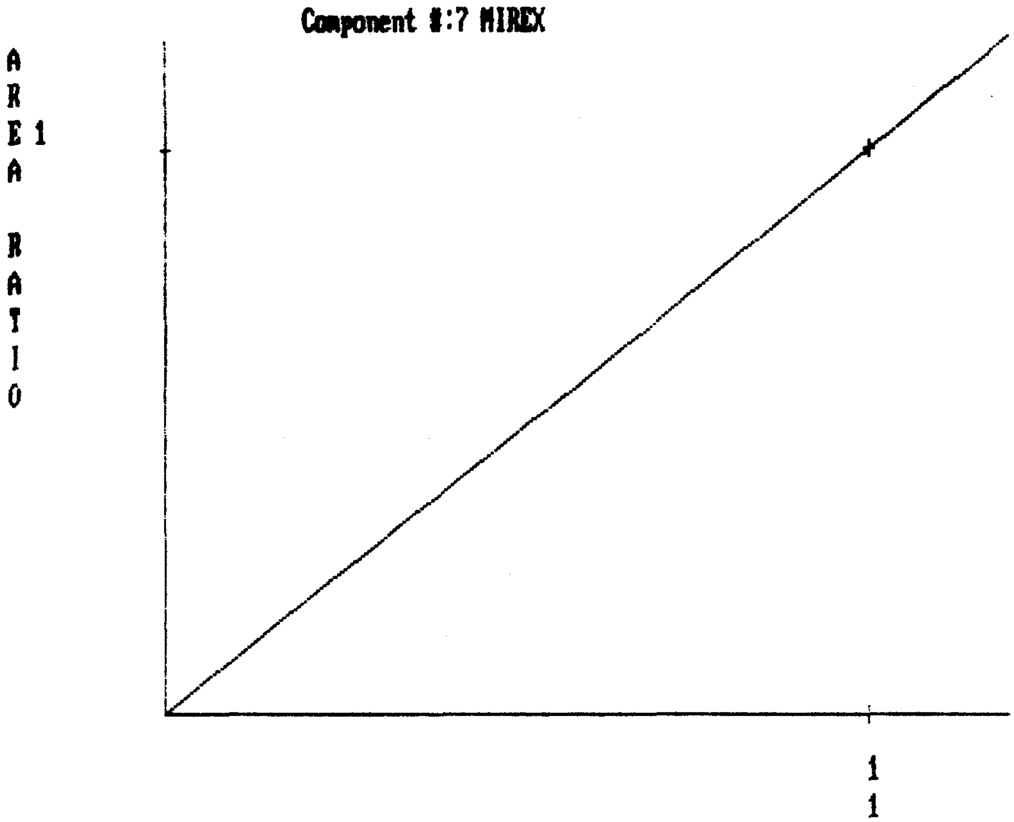
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 1.3987E+00 * Amt ratio + 4.3662E-02

Amt ratio = 7.1494E-01 * Area ratio + -3.1216E-02

Correlation Coefficient = 0.9884

PRIMARY COLUMN



Component 7 = MIREX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	1.0000	2396010	1.0000	1.0000
2	1.0000	2393825	1.0000	1.0000
3	1.0000	2391811	1.0000	1.0000
4	1.0000	2409025	1.0000	1.0000
5	1.0000	2405204	1.0000	1.0000

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.0000E+00 * Amt ratio + 0.0000E+00
Amt ratio = 1.0000E+00 * Area ratio + 0.0000E+00
Correlation Coefficient = 0.0000

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-01-1990 14:41:34 Version 4.1 **********

* Sample Name: PCB 1242 L3 # 3 Data File: W:2MAG24 *

* Date: 11-01-1990 03:27:47 Method: W:2 1242R 11-01-1990 09:16:02 # 210*

* Interface: 0 Cycle#: 24 Operator DKC Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *

* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Internal Standard Amount: 1

Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.92	1242-1	0.2213	21.0787%	335048	56879	5.9	1	26	26	-.3243	6.6050E-07
6	2.47	1242-2	0.2206	21.0090%	626607	84708	7.4	2	26	26	.2438	3.5201E-07
9	3.22	1242-3	0.2190	20.8592%	1104265	130026	8.5	2	26	26	.1992	1.9832E-07
10	3.52	1242-4	0.2096	19.9636%	495464	50808	9.8	2	26	26	0	4.2302E-07
16	6.06	1242-5	0.1794	17.0895%	666765	34630	19.1	2	26	26	0	2.6909E-07
26	24.21	MIREX	1.0000	0.0000%	2263134	38398	58.9	1	26	26	0	4.4187E-07

TOTAL AMOUNT = 1.0499

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.37	MIREX

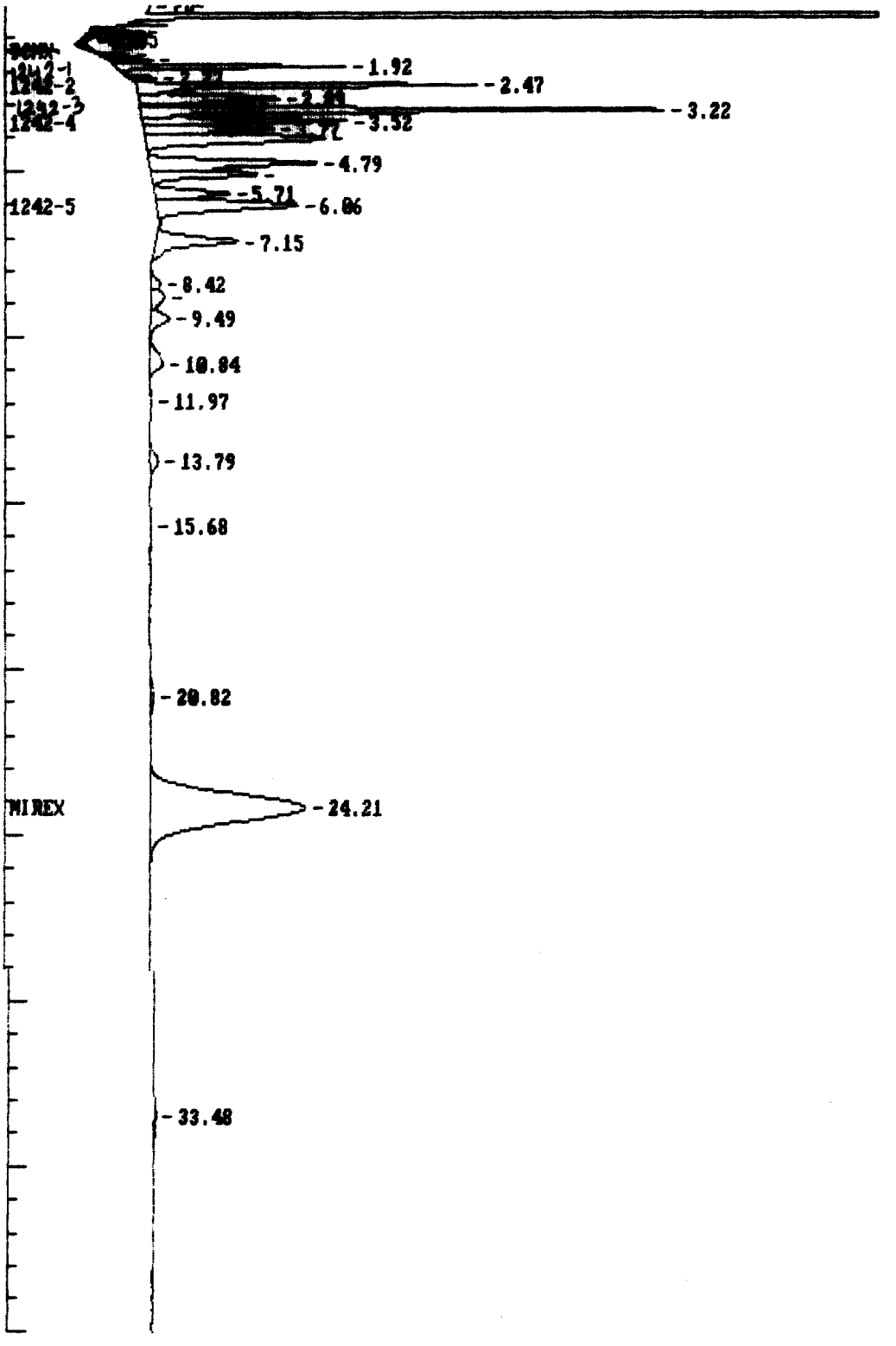
AV = ~~0.2099~~

0.2010 SF 11/6/90

KM
11/5/90

PRIMARY COLUMN

Data File = W:2MAG24.PTS Printed on 11-01-1990 at 14:41:52
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/5/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 10:55:28 Version 4.1 **********

* Sample Name: PCB 1242 L3 #4 Data File: W:2MAG36 *
* Date: 11-01-1990 13:14:36 Method: W:2_1242R 11-01-1990 09:16:02 # 210*
* Interface: 0 Cycle#: 36 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.92	1242-1	0.2231	19.8480%	336922	55920	6.0	1	27	27	.3678	6.6227E-07
6	2.45	1242-2	0.2216	19.7129%	628031	84720	7.4	2	27	27	.2579	3.5287E-07
9	3.21	1242-3	0.2199	19.5619%	1106233	130518	8.5	2	27	27	.3722	1.9880E-07
10	3.51	1242-4	0.2249	20.0087%	523651	51984	10.1	2	27	27	.1253	4.2956E-07
16	6.03	1242-5	0.2346	20.8685%	839960	38736	21.7	3	27	27	.2101	2.7931E-07
27	24.05	MIREX	1.0000	0.0000%	2259105	38419	58.8	1	27	27	0	4.4265E-07

TOTAL AMOUNT = 1.1242

PEAKS NOT FOUND IN THIS RUN

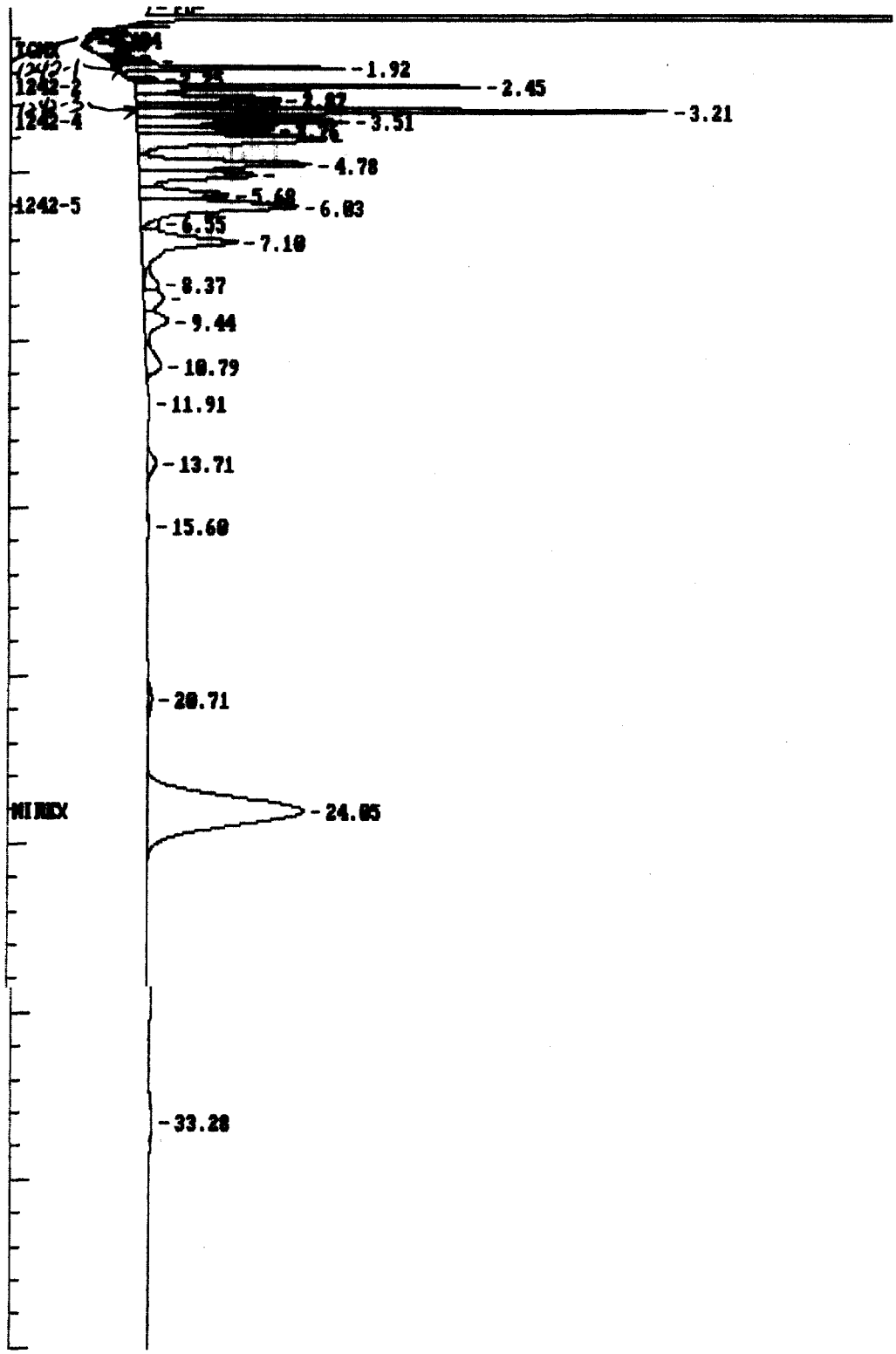
NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.36	MIREX

Average $\underset{n=5}{=}$ 0.2248

11/6/90

PRIMARY COLUMN

Data File = W:2MAG36.PTS Printed on 11-02-1990 at 10:55:46
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8
11/6/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 10:59:32 Version 4.1 **********

* Sample Name: PCB 1242 L3 #5 Data File: W:2MAG45 *
* Date: 11-01-1990 18:53:02 Method: W:2_1242R 11-01-1990 09:16:02 # 210*
* Interface: 0 Cycle#: 45 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PRIMARY COLUMN~~ *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	1.90	1242-1	0.2214	19.7849%	337403	57682	5.8	1	27	27	0	6.5628E-07
6	2.44	1242-2	0.2198	19.6397%	628810	84147	7.5	2	27	27	0	3.4956E-07
9	3.19	1242-3	0.2184	19.5173%	1109029	130488	8.5	2	27	27	.2672	1.9696E-07
10	3.49	1242-4	0.2254	20.1383%	528848	52138	10.1	2	27	27	0	4.2619E-07
16	6.00	1242-5	0.2341	20.9199%	845423	38939	21.7	3	27	27	0	2.7694E-07
27	23.95	MIREX	1.0000	0.0000%	2277831	38597	59.0	1	27	27	0	4.3901E-07

TOTAL AMOUNT = 1.1192

PEAKS NOT FOUND IN THIS RUN

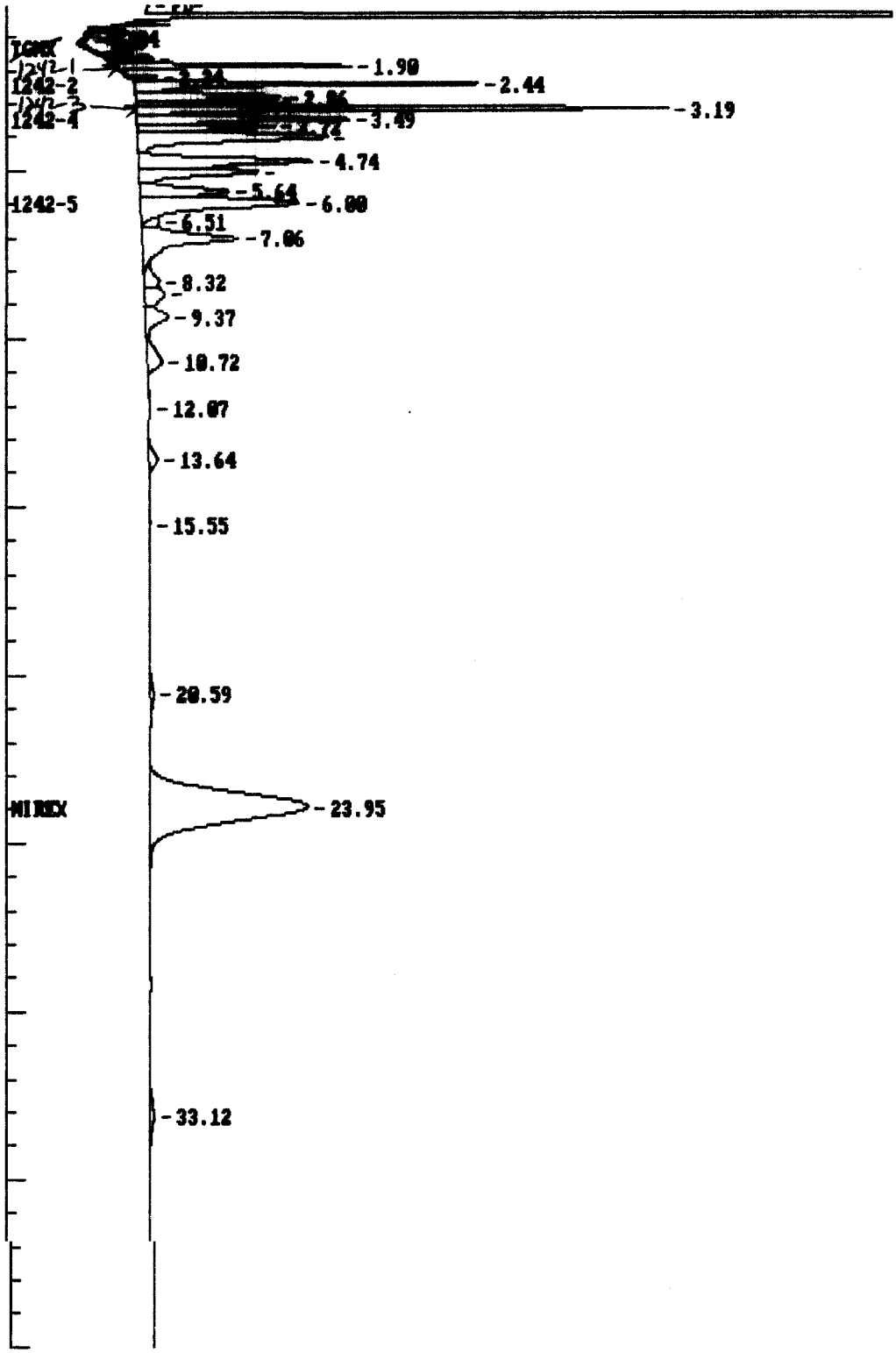
NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.36	MIREX

Average $\underset{n=5}{=}$ 0.2238

[illegible] 11/6/90

PRIMARY COLUMN

Data File = W:2MAG45.PTS Printed on 11-02-1990 at 10:59:49
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

SECONDARY COLUMN

Output redirected to LPT1:

***** INTERNAL STANDARD TABLE *****

********** 11-01-1990 09:58:19 Version 4.1 **********

* Sample Name: PCB1242 L1 Data File: W:1IC16 *

* Date: 10-29-1990 00:33:42 Method: W:1PCB1242 10-31-1990 13:39:56 # 173*

* Interface: 0 Cycle#: 16 Operator DKC Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONFQUANT~~ *

* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Internal Standard Amount: 1

Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/µ ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.55~~	~~TCMX~~	~~0.0001~~	~~0.0790%~~	~~8506~~	~~1785~~	~~4.8~~	~~1~~	~~22~~	~~22~~	~~.1835~~	~~8.7577E-09~~
5	1.90	1242-1	0.0158	16.7080%	89374	13471	6.6	2	22	22	-.2647	1.7638E-07
7	2.40	1242-2	0.0158	16.7036%	153716	19343	7.9	2	22	22	0	1.0252E-07
8	2.66	1242-3	0.0220	23.3052%	85297	10423	8.2	2	22	22	.3237	2.5778E-07
9	3.07	1242-4	0.0200	21.1571%	310402	27492	11.3	2	22	22	-.2283	6.4307E-08
14	5.41	1242-5	0.0208	22.0472%	183468	9129	20.1	2	22	22	0	1.1338E-07
22	23.16	MIREX	1.0000	0.0000%	3186118	48429	65.8	1	22	22	0	3.1386E-07

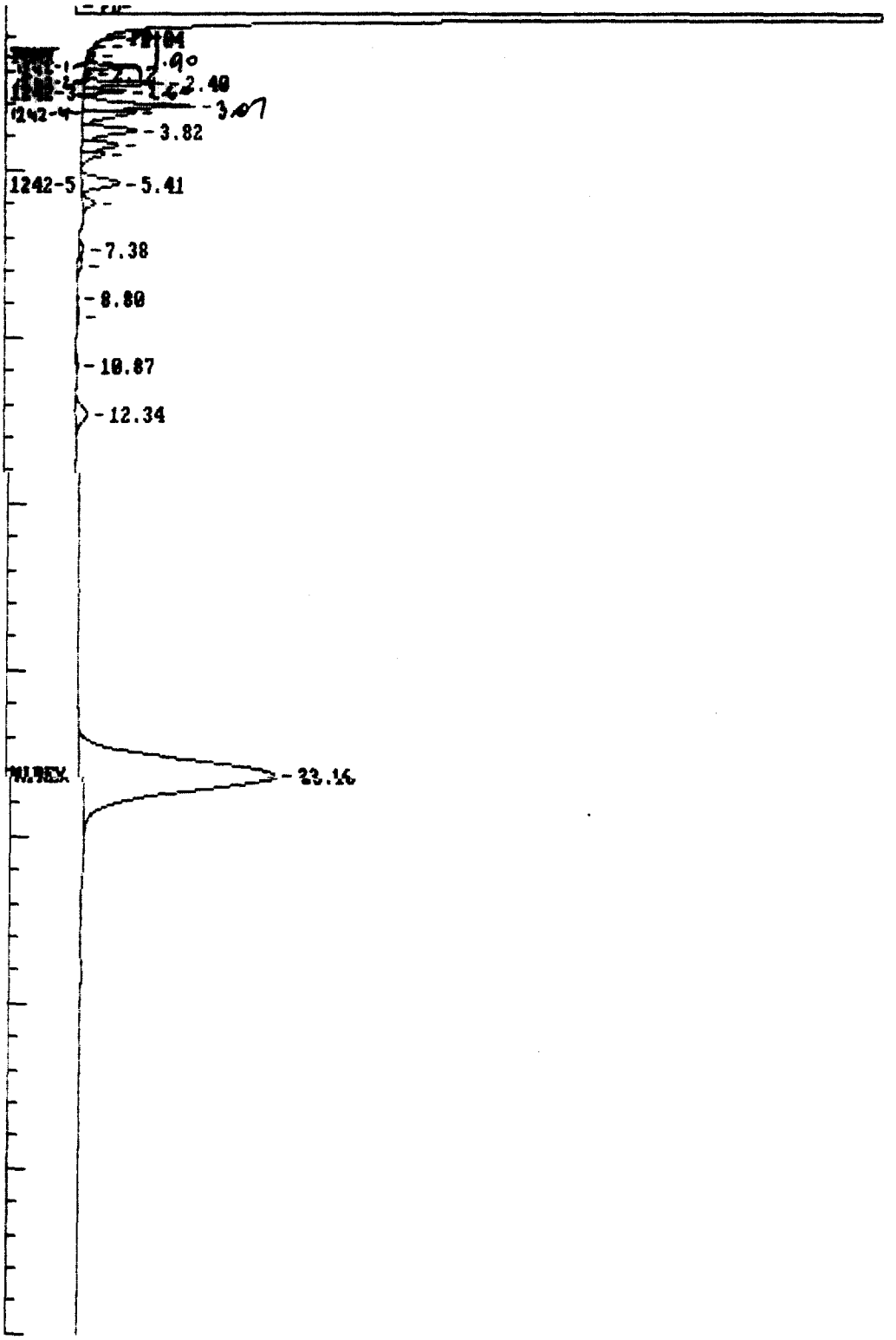
TOTAL AMOUNT = 0.0943

AV= 0.0189

LM
11/6/90

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC16.ATB
Data File = W:1IC16.PTS Printed on 11-01-1990 at 09:58:37
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



4/6/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-01-1990 09:59:27 Version 4.1 **********

* Sample Name: PCB1242 L2 Data File: W:1IC17 *

* Date: 10-29-1990 01:17:49 Method: W:1PCB1242 10-31-1990 13:39:56 # 173*

* Interface: 0 Cycle#: 17 Operator DKC Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT~~CONF Detector 1: ECD ~~CONF~~QUANT *

* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Internal Standard Amount: 1

Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.57~~	~~TCMX~~	~~0.0003~~	~~0.0489%~~	~~31578~~	~~6452~~	~~4.9~~	~~1~~	~~21~~	~~21~~	~~-.4736~~	~~8.5935E-09~~
5	1.94	1242-1	0.1087	19.5955%	300005	43805	6.8	2	21	21	.1135	3.6237E-07
7	2.44	1242-2	0.1105	19.9129%	507259	61741	8.2	2	21	21	-.0360	2.1779E-07
8	2.69	1242-3	0.1107	19.9608%	317315	36836	8.6	2	21	21	.2129	3.4899E-07
9	3.12	1242-4	0.1125	20.2773%	1028101	91009	11.3	2	21	21	0	1.0942E-07
14	5.49	1242-5	0.1121	20.2047%	733658	32589	22.5	2	21	21	.2646	1.5279E-07
21	23.48	MIREX	1.0000	0.0000%	3246990	48848	66.5	1	21	21	0	3.0798E-07

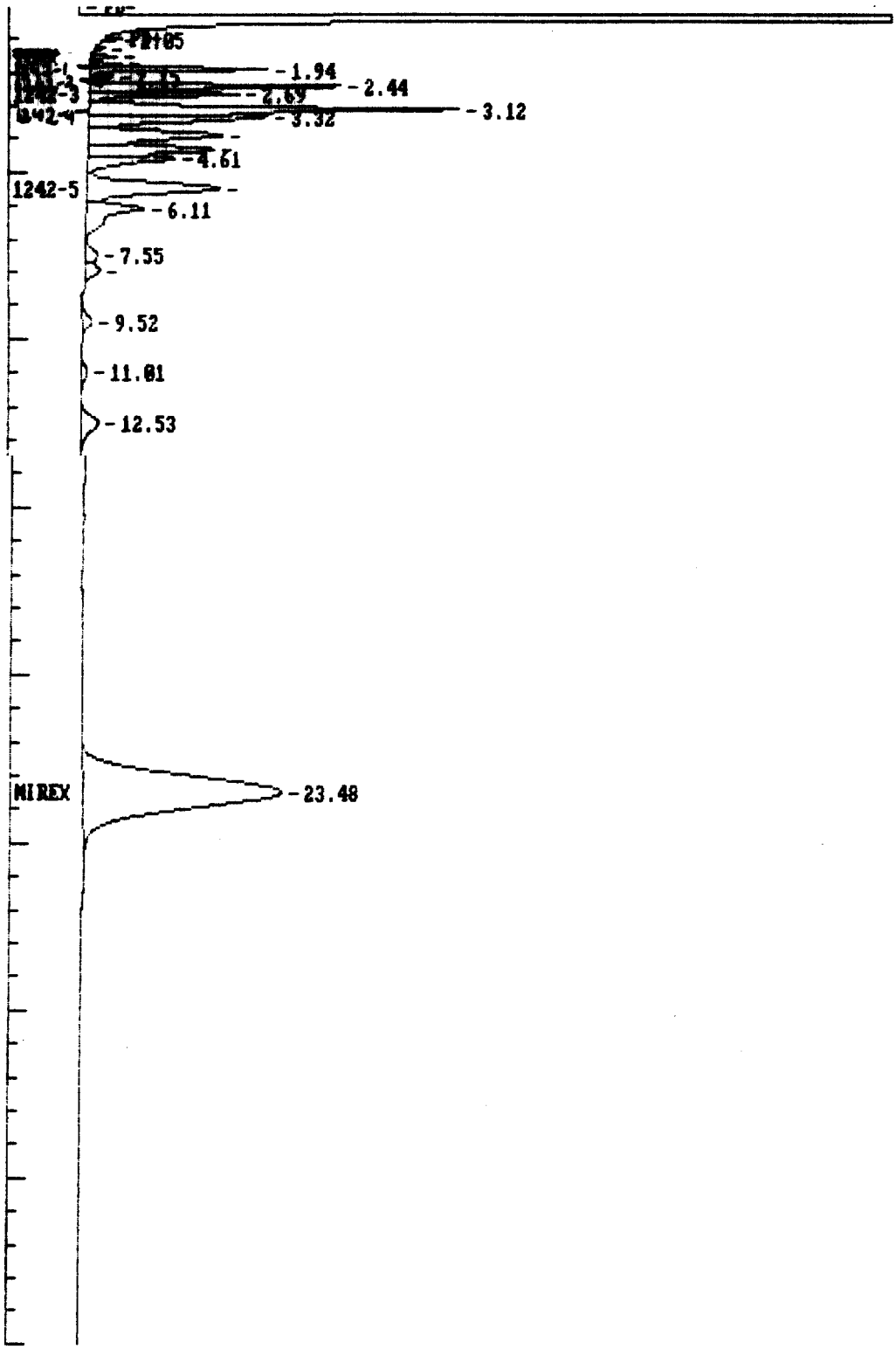
TOTAL AMOUNT = 0.5548

AV: 0.1109

VM
11/6/90

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC17.ATB
Data File = W:1IC17.PTS Printed on 11-01-1990 at 09:59:48
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



WM
11/6/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-01-1990 10:00:39 Version 4.1 **********

* Sample Name: PCB1242 L3 Data File: W:1IC18 *
* Date: 10-29-1990 02:01:56 Method: W:1PCB1242 10-31-1990 13:39:56 # 173*
* Interface: 0 Cycle#: 18 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~CONF Detector 1: ECD ~~CONF~~QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/kML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~4~~	~~1.59~~	~~TCMX~~	~~0.0005~~	~~0.0454%~~	~~58123~~	~~11802~~	~~4.9~~	~~2~~	~~22~~	~~22~~	~~-.6165~~	~~8.6177E-09~~
6	1.95	1242-1	0.2257	20.4403%	561399	78059	7.2	3	22	22	-.2297	4.0205E-07
8	2.47	1242-2	0.2239	20.2766%	924533	109634	8.4	2	22	22	.1227	2.4218E-07
9	2.72	1242-3	0.2170	19.6519%	591498	67731	8.7	2	22	22	.2457	3.6687E-07
10	3.17	1242-4	0.2207	19.9857%	1855106	164132	11.3	2	22	22	.4187	1.1896E-07
15	5.56	1242-5	0.2164	19.6002%	1354666	58939	23.0	2	22	22	.2712	1.5977E-07
22	23.76	MIREX	1.0000	0.0000%	3237857	48588	66.6	1	22	22	0	3.0885E-07

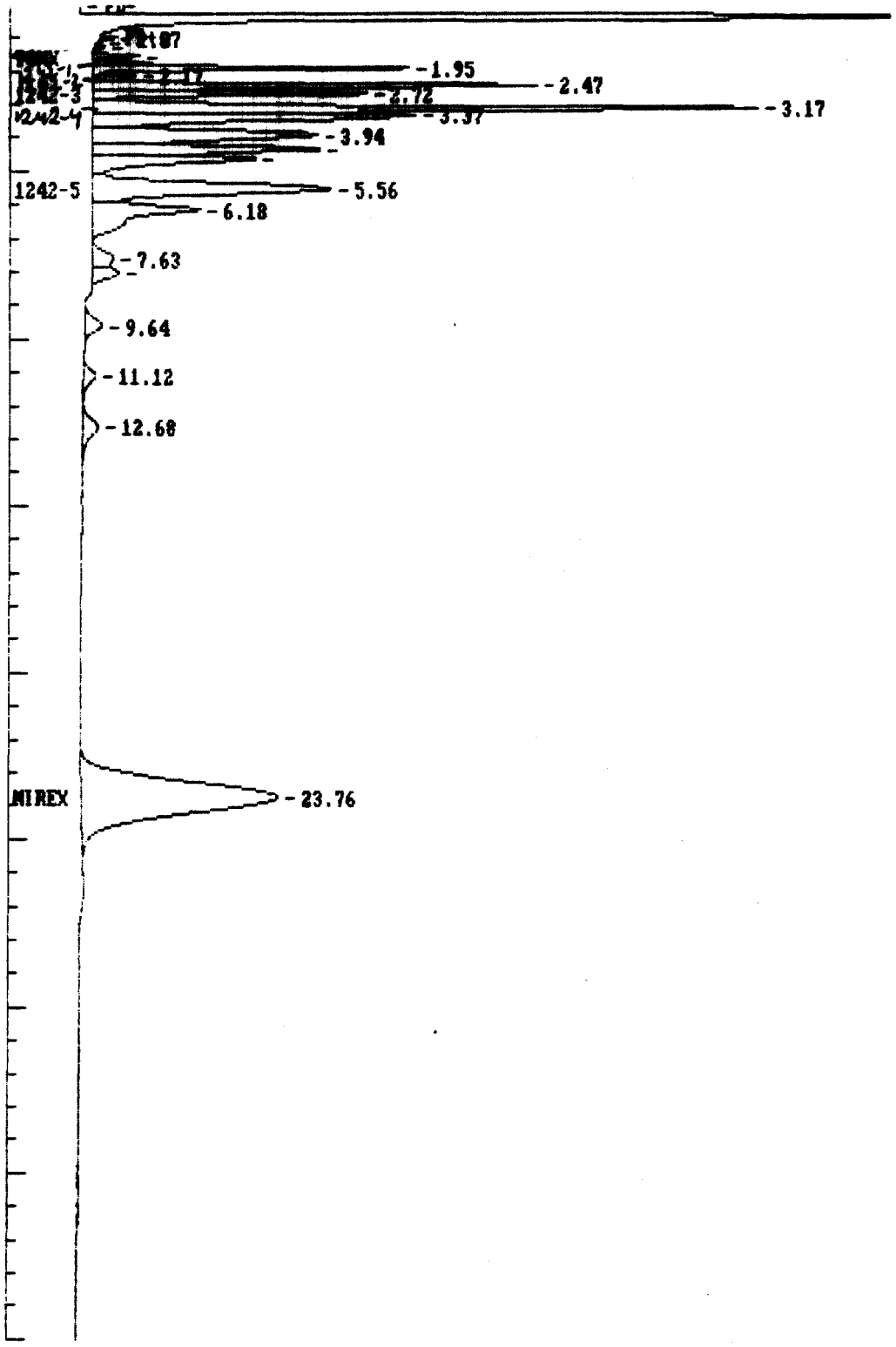
TOTAL AMOUNT = 1.1042

AV = 0.2207

UM
11/6/90

SECONDARY COLUM

Areas, times, and heights stored in: W:1IC18.ATB
Data File = W:1IC18.PTS Printed on 11-01-1990 at 10:01:00
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



UM
11/6/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-01-1990 10:01:53 Version 4.1 **********

* Sample Name: PCB1242 L4 Data File: W:1IC19 *
* Date: 10-29-1990 02:45:59 Method: W:1PCB1242 10-31-1990 13:39:56 # 173*
* Interface: 0 Cycle#: 19 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~4~~	~~1.60~~	~~TCMX~~	~~0.0011~~	~~0.0438%~~	~~132399~~	~~26204~~	~~5.1~~	~~2~~	~~23~~	~~23~~	~~-.1318~~	~~8.4978E-09~~
6	1.97	1242-1	0.5166	20.1249%	1230621	169940	7.2	3	23	23	.0604	4.1982E-07
8	2.49	1242-2	0.5161	20.1020%	2031226	237396	8.6	2	23	23	.2357	2.5406E-07
9	2.74	1242-3	0.5131	19.9869%	1377131	153035	9.0	2	23	23	.2968	3.7259E-07
10	3.19	1242-4	0.5061	19.7142%	4101365	366243	11.2	2	23	23	.3828	1.2340E-07
15	5.59	1242-5	0.5142	20.0282%	3176741	132706	23.9	2	23	23	.3095	1.6185E-07
23	23.90	MIREX	1.0000	0.0000%	3283564	49090	66.9	1	23	23	0	3.0455E-07

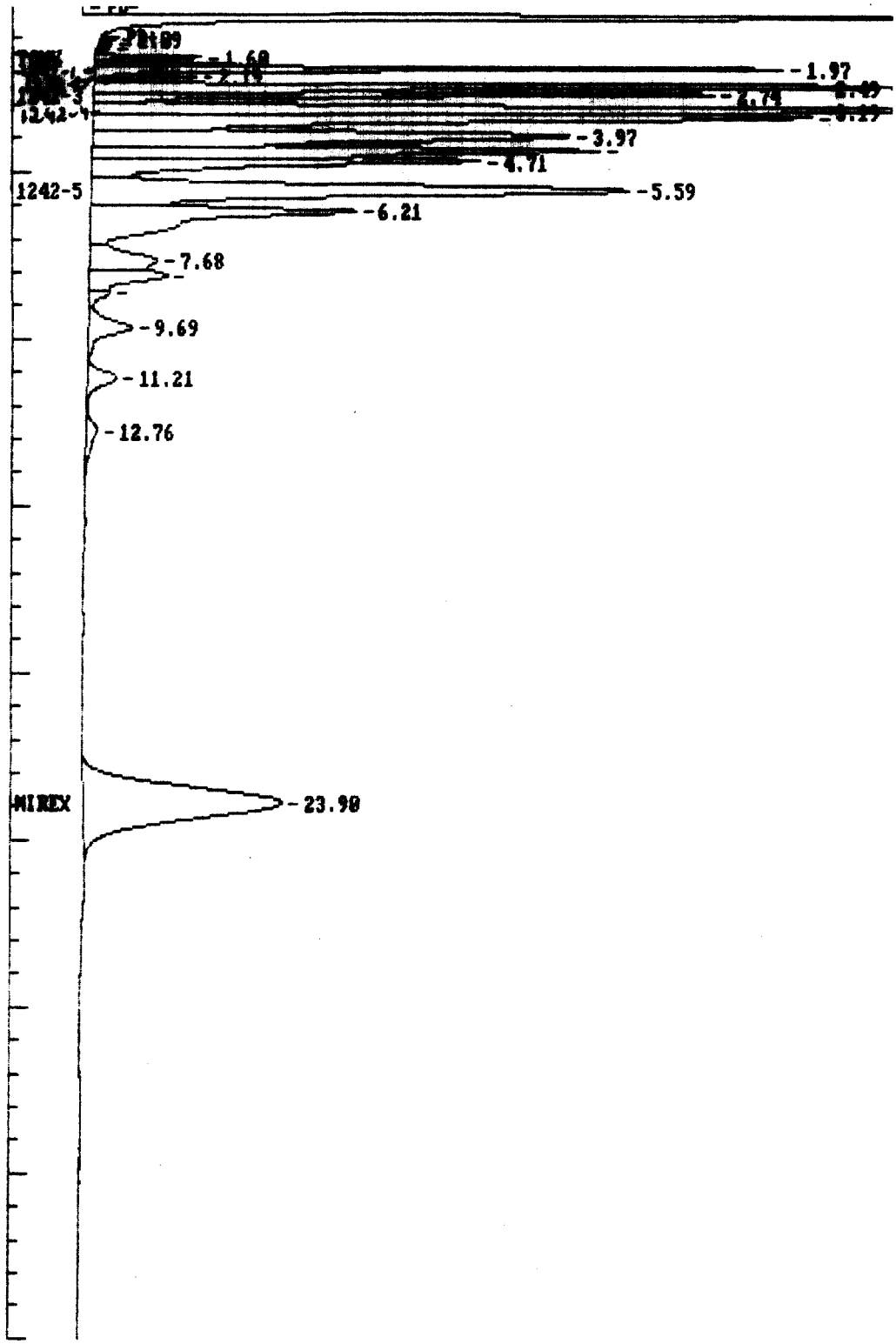
TOTAL AMOUNT = 2.5672

AV = 0.5132

WD
11/6/90

SECONDARY COLUMN

Areas. times. and heights stored in: W:1IC19.ATB
Data File = W:1IC19.PTS Printed on 11-01-1990 at 10:02:14
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



WM
11/6/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-01-1990 10:03:10 Version 4.1 **********

* Sample Name: PCB1242 L5 Data File: W:1IC20 *

* Date: 10-29-1990 03:30:06 Method: W:1PCB1242 10-31-1990 13:39:56 # 173*

* Interface: 0 Cycle#: 20 Operator DKC Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *

* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Internal Standard Amount: 1

Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~4~~	~~1.62~~	~~TCMX~~	~~0.0016~~	~~0.0430%~~	~~187822~~	~~35973~~	~~5.2~~	~~2~~	~~24~~	~~24~~	~~0~~	~~8.4396E-09~~
6	1.99	1242-1	0.7332	19.9069%	1734665	238802	7.3	3	24	24	0	4.2266E-07
8	2.51	1242-2	0.7338	19.9242%	2865994	334341	8.6	2	24	24	0	2.5604E-07
9	2.76	1242-3	0.7372	20.0154%	1978881	217503	9.1	2	24	24	0	3.7252E-07
10	3.21	1242-4	0.7408	20.1128%	5967494	518762	11.5	2	24	24	0	1.2413E-07
15	5.63	1242-5	0.7365	19.9976%	4554435	187461	24.3	2	24	24	0	1.6171E-07
24	24.11	MIREX	1.0000	0.0000%	3306205	49231	67.2	1	24	24	0	3.0246E-07

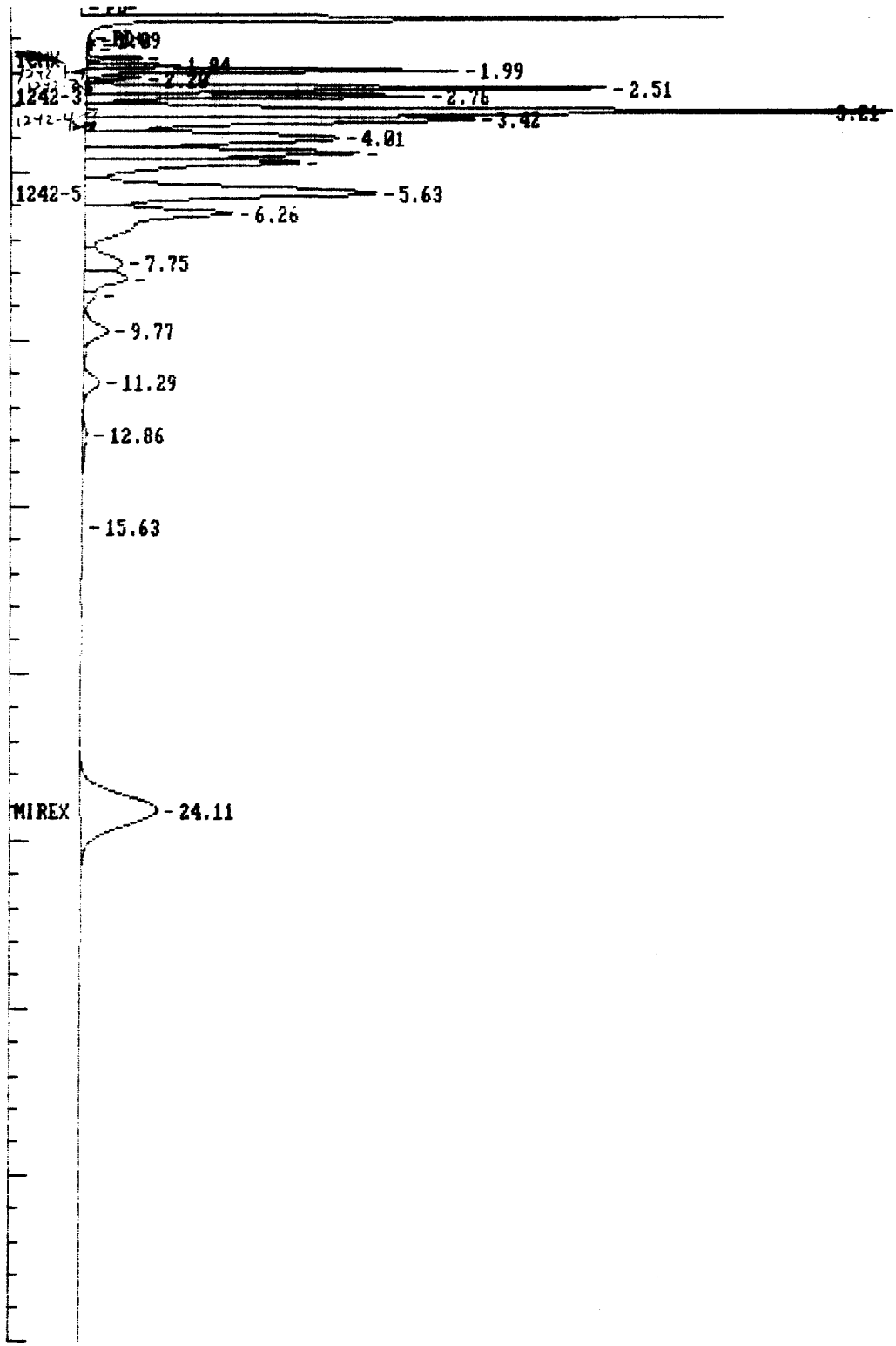
TOTAL AMOUNT = 3.6830

AV= 0.7363

WM
11/6/90

SECONDARY COLUMN

Data File = W:1IC20.PTS Printed on 11-04-1990 at 11:49:25
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Low Value: 25679 uv High Value: 547337 uv Scale factor: 1.0

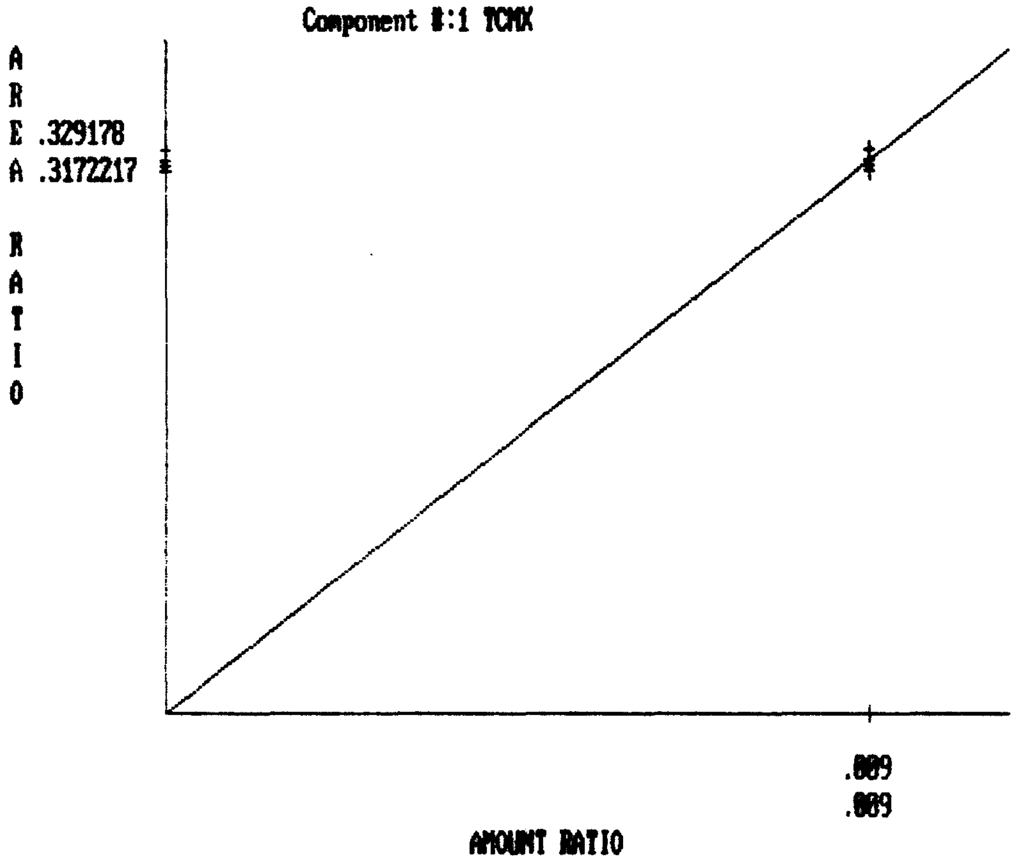


S 11/6/90

SECONDARY COLUMN

Output redirected to LPT1:

Method W:1PCB1242
Sample SINGLE PHASE COLUMN - PCB 1242
Operator DKC
Run date 10-31-1990 13:39:56 version: 173
Printed on 10-31-1990 AT 13:42:29
Straight Line fit



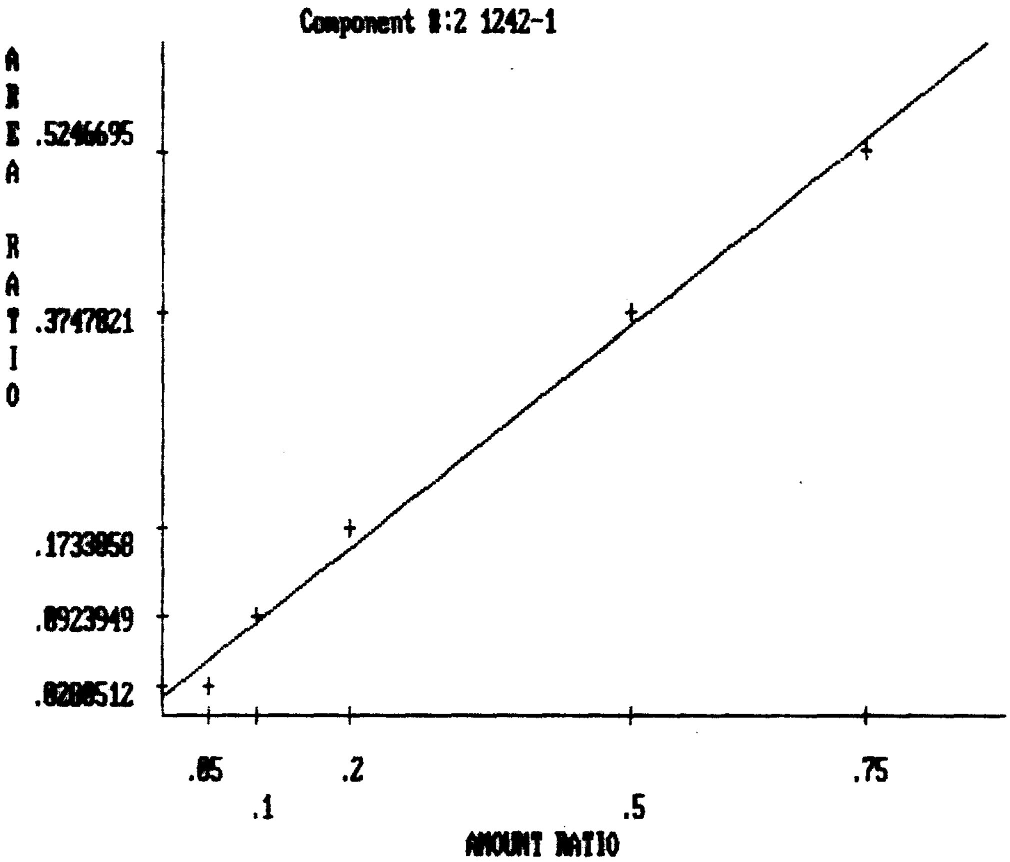
Component 1 = TCMX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0090	1048800	0.0090	0.3292
2	0.0090	1048800	0.0090	0.3230
3	0.0090	1048800	0.0090	0.3239
4	0.0090	1048800	0.0090	0.3194
5	0.0090	1048800	0.0090	0.3172

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.5839E+01 * Amt ratio + 0.0000E+00
Amt ratio = 2.7903E-02 * Area ratio + 0.0000E+00
Correlation Coefficient = 0.0000

SECONDARY COLUMN

Method W:1PCB1242
Sample SINGLE PHASE COLUMN - PCB 1242
Operator DKC
Run date 10-30-1990 15:50:27 version: 172
Printed on 10-30-1990 AT 16:09:12
Straight Line fit



Component 2 = 1242-1
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	89374	0.0500	0.0281
2	0.1000	300005	0.1000	0.0924
3	0.2000	561399	0.2000	0.1734
4	0.5000	1230621	0.5000	0.3748
5	0.7500	1734665	0.7500	0.5247

Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

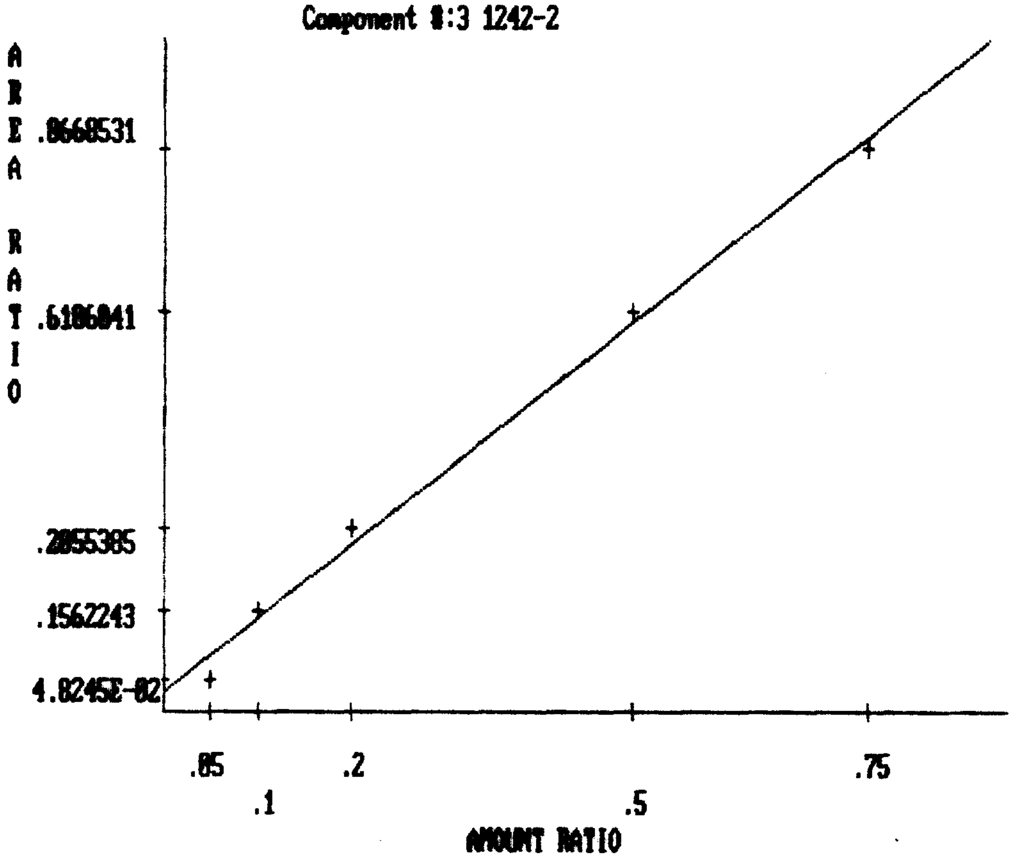
Area ratio = 6.9224E-01 * Amt ratio + 1.7139E-02

Amt ratio = 1.4446E+00 * Area ratio + -2.4759E-02

Correlation Coefficient = 0.9931

SECONDARY COLUMN

Method W:1PCB1242
Sample SINGLE PHASE COLUMN - PCB 1242
Operator DKC
Run date 10-30-1990 15:50:27 version: 172
Printed on 10-30-1990 AT 16:10:13
Straight Line fit



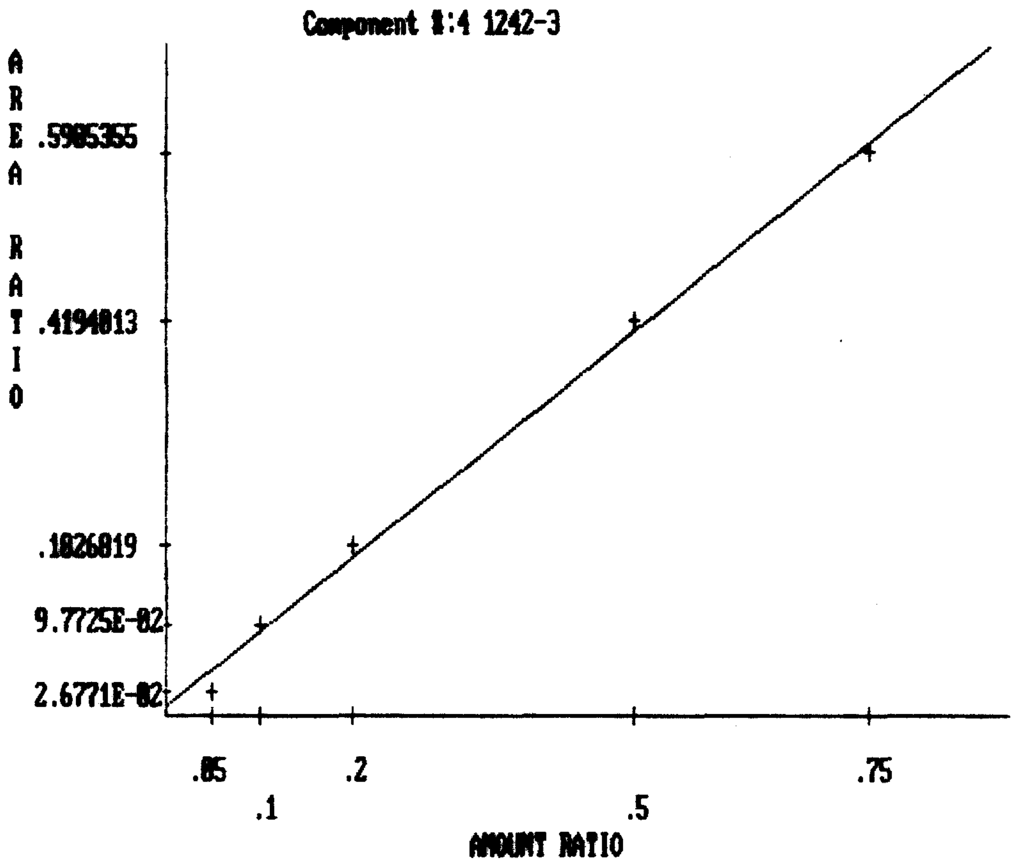
Component 3 = 1242-2
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	153716	0.0500	0.0482
2	0.1000	507259	0.1000	0.1562
3	0.2000	924533	0.2000	0.2855
4	0.5000	2031226	0.5000	0.6186
5	0.7500	2865994	0.7500	0.8669

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.1400E+00 * Amt ratio + 3.0279E-02
Amt ratio = 8.7716E-01 * Area ratio + -2.6560E-02
Correlation Coefficient = 0.9933

SECONDARY COLUMN

Method W:1PCB1242
Sample SINGLE PHASE COLUMN - PCB 1242
Operator DKC
Run date 10-30-1990 15:50:27 version: 172
Printed on 10-30-1990 AT 16:11:20
Straight Line fit



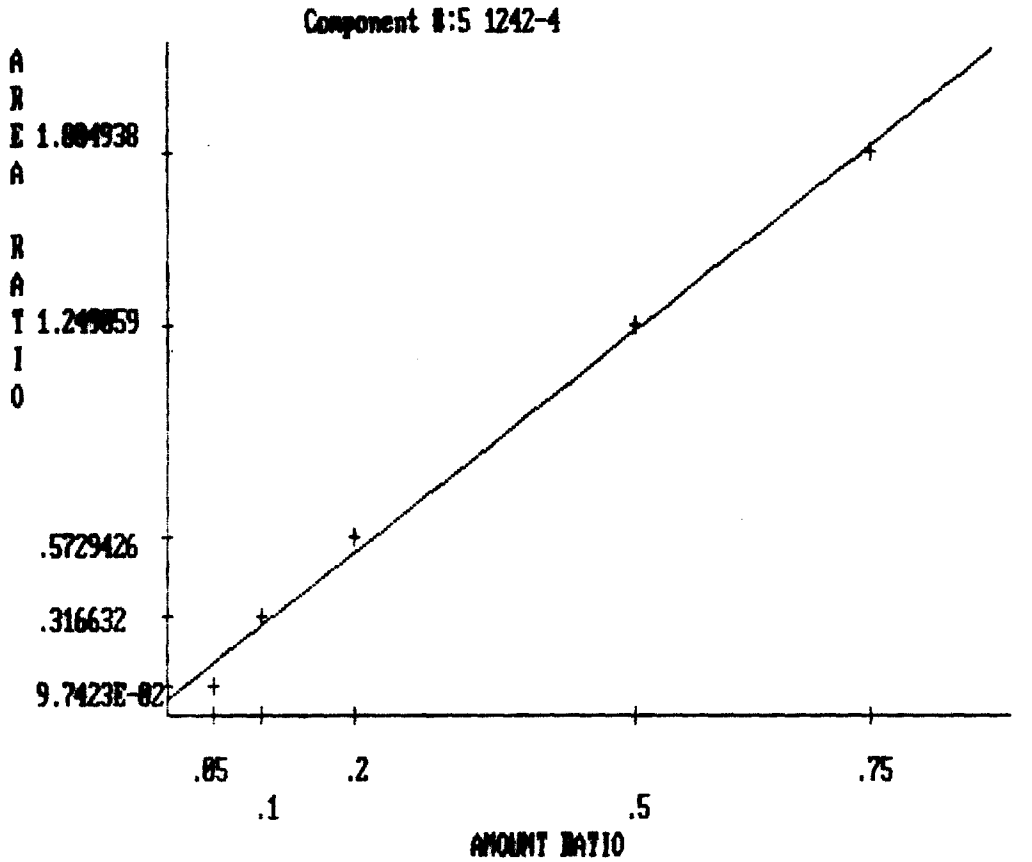
Component 4 = 1242-3
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	85297	0.0500	0.0268
2	0.1000	317315	0.1000	0.0977
3	0.2000	591498	0.2000	0.1827
4	0.5000	1377131	0.5000	0.4194
5	0.7500	1978881	0.7500	0.5985

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 7.9947E-01 * Amt ratio + 9.1931E-03
Amt ratio = 1.2508E+00 * Area ratio + -1.1499E-02
Correlation Coefficient = 0.9957

SECONDARY COLUMN

Method W:1PCB1242
Sample SINGLE PHASE COLUMN - PCB 1242
Operator DKC
Run date 10-30-1990 15:50:27 version: 172
Printed on 10-30-1990 AT 16:12:40
Straight Line fit

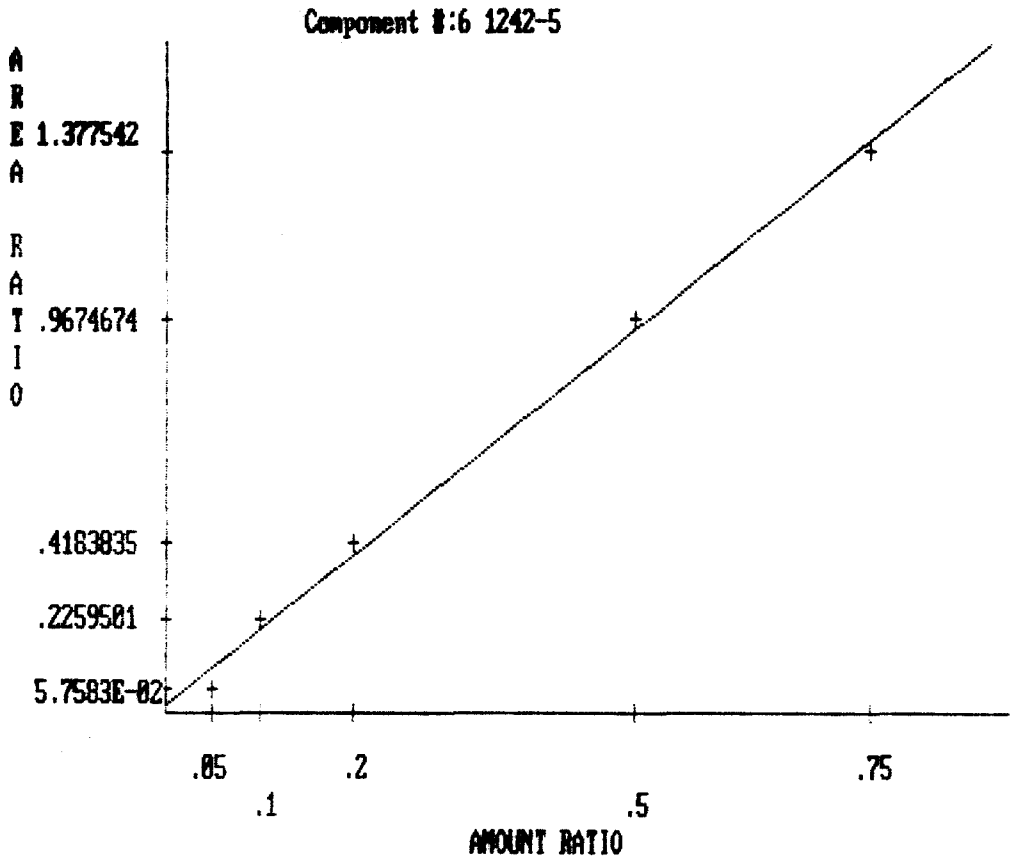


Component 5 = 1242-4
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	310402	0.0500	0.0974
2	0.1000	1028101	0.1000	0.3166
3	0.2000	1855106	0.2000	0.5729
4	0.5000	4101365	0.5000	1.2491
5	0.7500	5967494	0.7500	1.8049

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.3689E+00 * Amt ratio + 5.0137E-02
Amt ratio = 4.2213E-01 * Area ratio + -2.1164E-02
Correlation Coefficient = 0.9955

Method W:1PCB1242
Sample SINGLE PHASE COLUMN - PCB 1242
Operator DKC
Run date 10-30-1990 15:50:27 version: 172
Printed on 10-30-1990 AT 16:13:40
Straight Line fit

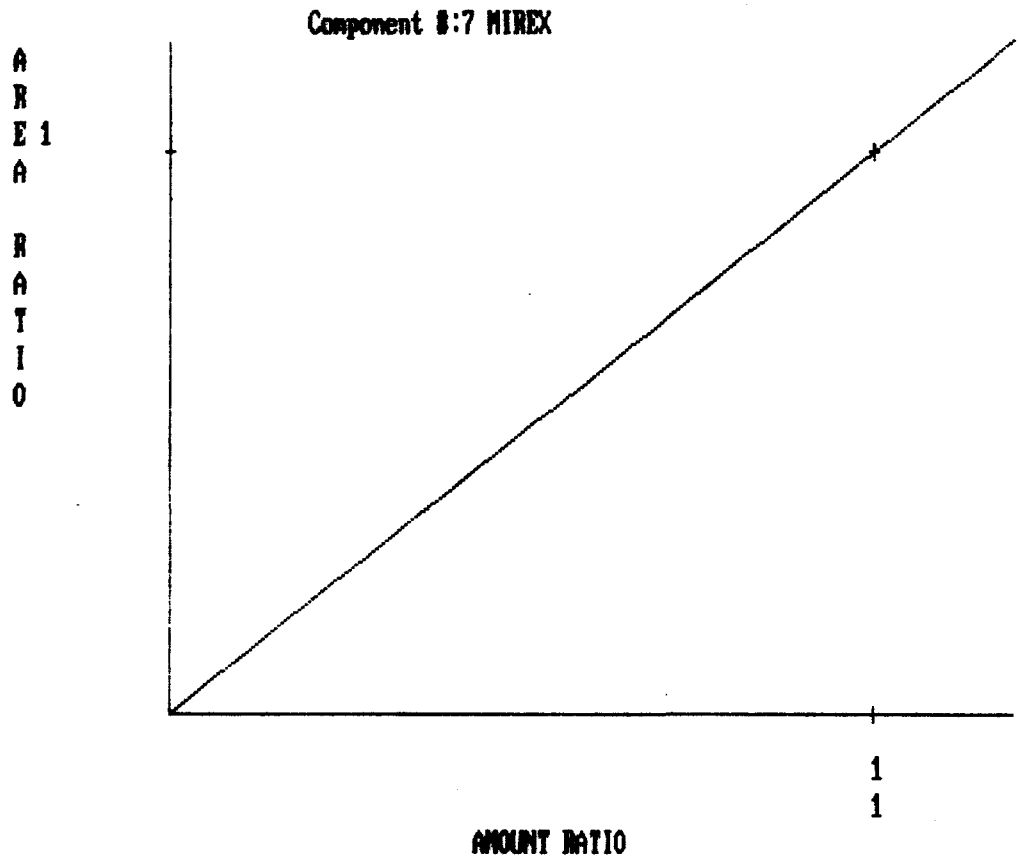


Component 6 = 1242-5
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	183468	0.0500	0.0576
2	0.1000	733658	0.1000	0.2260
3	0.2000	1354666	0.2000	0.4184
4	0.5000	3176741	0.5000	0.9675
5	0.7500	4554435	0.7500	1.3775

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.8443E+00 * Amt ratio + 1.9221E-02
Amt ratio = 5.4222E-01 * Area ratio + -1.0422E-02
Correlation Coefficient = 0.9953

Method W:1PCB1242
Sample SINGLE PHASE COLUMN - PCB 1242
Operator DKC
Run date 10-30-1990 15:50:27 version: 172
Printed on 10-30-1990 AT 16:14:45
Straight Line fit



Component 7 = MIREX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	1.0000	3186118	1.0000	1.0000
2	1.0000	3246990	1.0000	1.0000
3	1.0000	3237857	1.0000	1.0000
4	1.0000	3283564	1.0000	1.0000
5	1.0000	3306205	1.0000	1.0000

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.0000E+00 * Amt ratio + 0.0000E+00
Amt ratio = 1.0000E+00 * Area ratio + 0.0000E+00
Correlation Coefficient = 0.0000

SECONDARY COLUMN

**** INTERNAL STANDARD TABLE *****

********** 11-01-1990 13:32:52 Version 4.1 **********

* Sample Name: PCB 1242 L3 #3 Data File: W:1MAG23 *
* Date: 11-01-1990 02:43:45 Method: W:1PCB1242 11-01-1990 13:25:41 # 174*
* Interface: 0 Cycle#: 23 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT CONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.62~~	~~TBMX~~	~~0.0006~~	~~0.0495%~~	~~56916~~	~~11334~~	~~5.0~~	~~2~~	~~21~~	~~21~~	~~.3466~~	~~9.7319E-09~~
5	1.87	1242-1	0.2261	20.2277%	497975	71162	7.0	3	21	21	.6710	4.5412E-07
7	2.35	1242-2	0.2272	20.3183%	829303	99909	8.3	2	21	21	.5451	2.7391E-07
8	2.59	1242-3	0.2158	19.3015%	520980	62409	8.3	2	21	21	.4803	4.1419E-07
9	3.01	1242-4	0.2277	20.3704%	1690555	151254	11.2	2	21	21	.2777	1.3471E-07
14	5.28	1242-5	0.2206	19.7326%	1221619	54976	22.2	2	21	21	.2976	1.8058E-07
21	22.55	MIREX	1.0000	0.0000%	2867173	44337	64.7	1	21	21	0	3.4878E-07

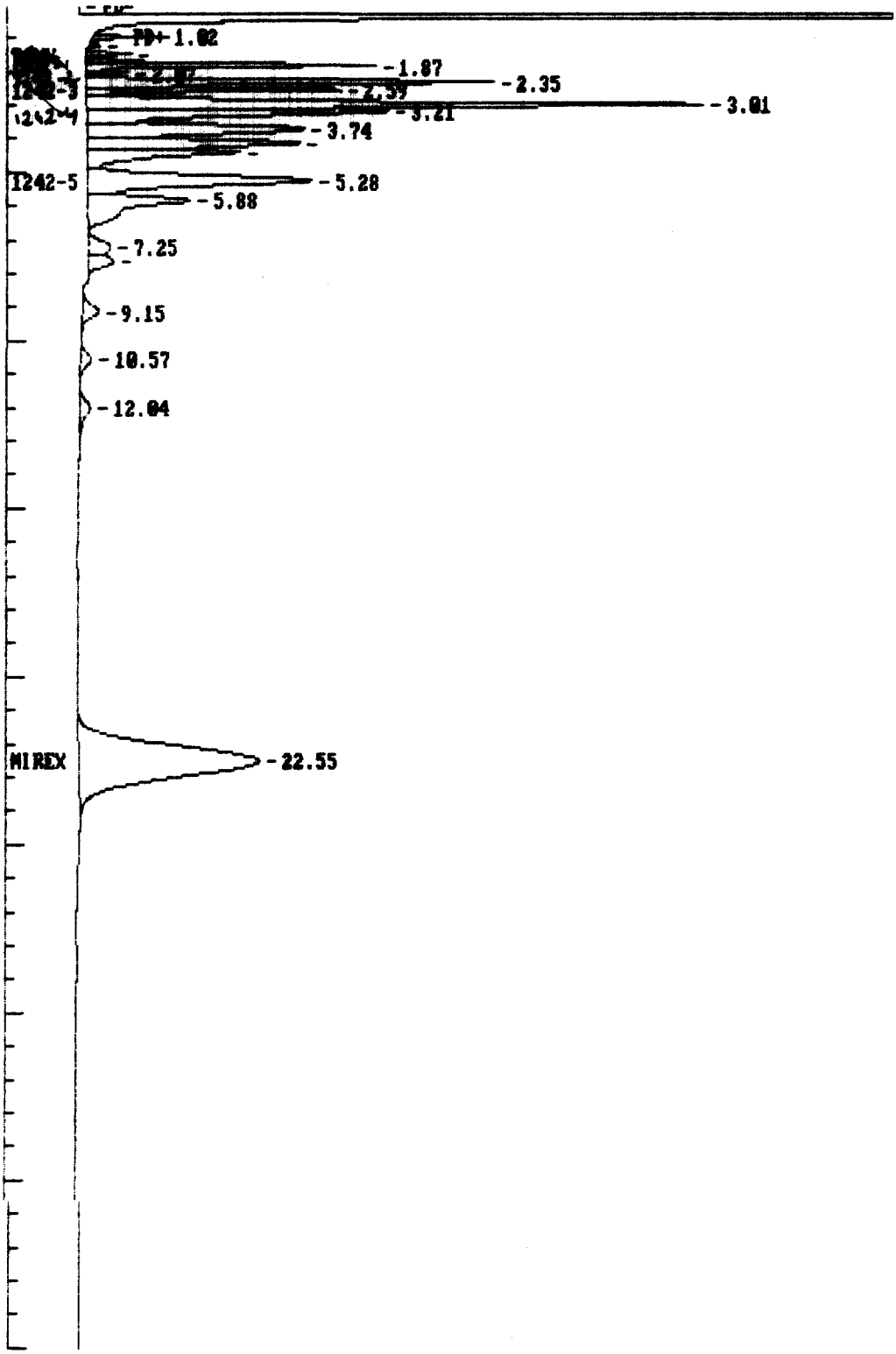
TOTAL AMOUNT = 1.1180

AV= 0:2235

11/6/90

SECONDARY COLUMN

File = W:1MAG23.PTS Printed on 11-01-1990 at 13:33:12
.t time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
il Range: 200 millivolts



KM
11/5/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 12:01:44 Version 4.1 **********

* Sample Name: PCB1242 L3 #4 Data File: W:1MAG35 *

* Date: 11-01-1990 11:53:26 Method: W:1_1242A 11-01-1990 13:43:13 # 175*

* Interface: 0 Cycle#: 35 Operator DKC Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *

* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

Internal Standard Amount: 1

Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.50~~	~~TCMX~~	~~0.0005~~	~~0.0475%~~	~~53529~~	~~10967~~	~~4.9~~	~~2~~	~~21~~	~~21~~	~~-6.244~~	~~9.7254E-09~~
5	1.84	1242-1	0.2203	20.0979%	486657	71686	6.8	3	21	21	.3378	4.5262E-07
7	2.32	1242-2	0.2234	20.3878%	817749	100523	8.1	2	21	21	.2403	2.7325E-07
8	2.56	1242-3	0.2145	19.5732%	518434	62462	8.3	2	21	21	.4620	4.1379E-07
9	2.97	1242-4	0.2202	20.0915%	1640492	152182	10.8	2	21	21	.4598	1.3423E-07
14	5.21	1242-5	0.2170	19.8021%	1203528	55170	21.8	2	21	21	.4770	1.8033E-07
21	22.18	MIREX	1.0000	0.0000%	2869079	44836	64.0	1	21	21	0	3.4854E-07

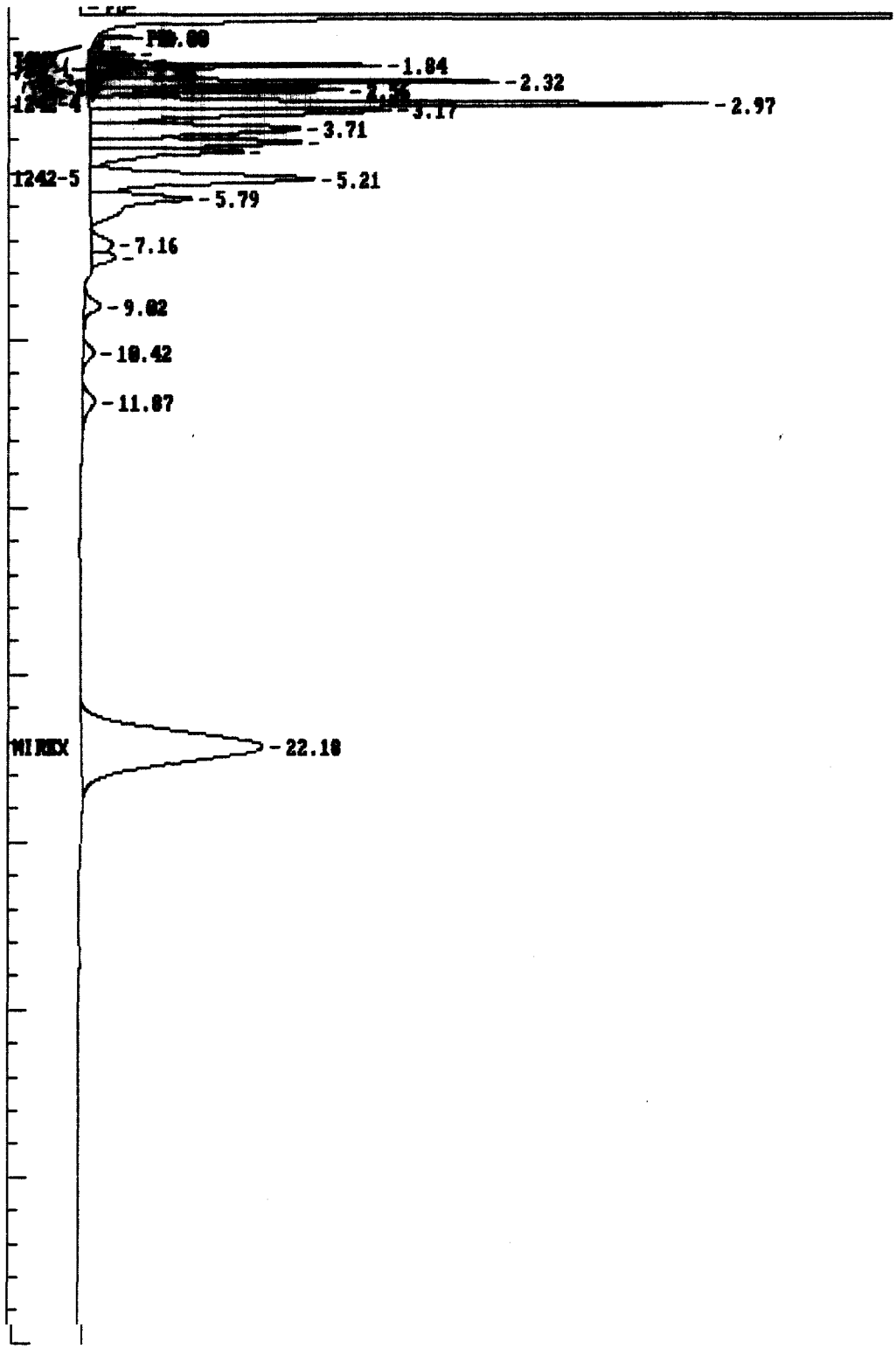
TOTAL AMOUNT = 1.0960

Average $\underset{n=5}{=}$ 0.2191

11/6/90

SECONDARY COLUMN

Data File = W:1MAG35.PTS Printed on 11-02-1990 at 12:02:01
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8
11/6/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 12:05:33 Version 4.1 **********

* Sample Name: PCB1242 L3 #5 Data File: W:1MAG44 *
* Date: 11-01-1990 18:09:02 Method: W:1_1242A 11-01-1990 13:43:13 # 175*
* Interface: 0 Cycle#: 44 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
~~4~~	~~1.64~~	~~TCMX~~	~~0.0007~~	~~0.0648%~~	~~70648~~	~~14466~~	~~4.9~~	~~2~~	~~21~~	~~21~~	~~5.835~~	~~9.7312E-09~~
5	1.77	1242-1	0.2113	19.9123%	468525	71167	6.6	3	21	21	.2367	4.5096E-07
7	2.22	1242-2	0.2132	20.0934%	783773	98242	8.0	2	21	21	-.5674	2.7202E-07
8	2.45	1242-3	0.2115	19.9342%	511232	61888	8.3	2	21	21	0	4.1374E-07
9	2.86	1242-4	0.2134	20.1131%	1593403	149508	10.7	2	21	21	0	1.3394E-07
14	5.01	1242-5	0.2110	19.8822%	1170733	55030	21.3	2	21	21	.1573	1.8020E-07
21	21.39	MIREX	1.0000	0.0000%	2867367	45010	63.7	1	21	21	0	3.4875E-07

TOTAL AMOUNT = 1.0611

Average $\underset{n=5}{=}$ 0.2121

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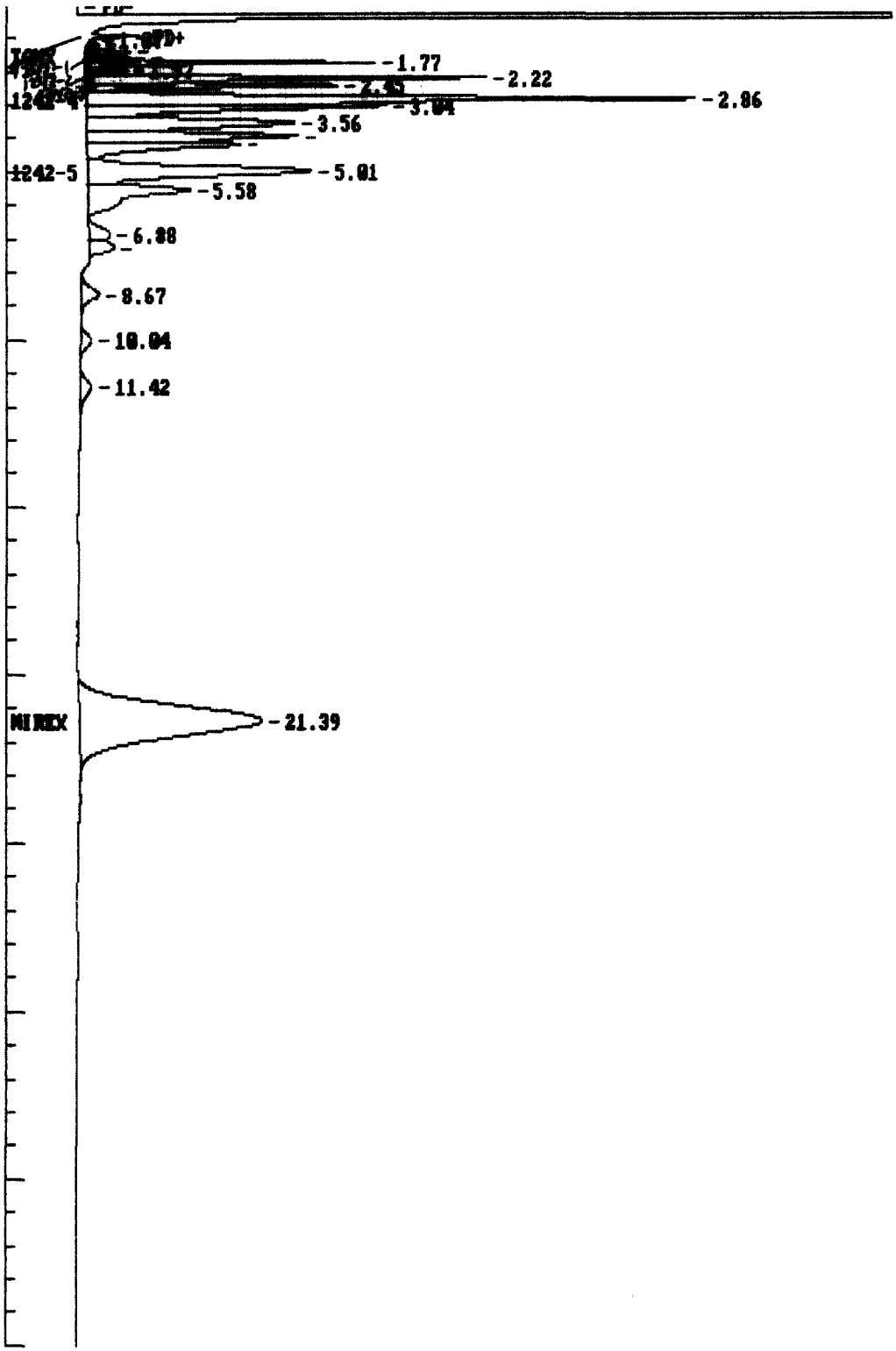
SECONDARY COLUMN

Data File = W:1MAG44.PTS Printed on 11-02-1990 at 12:05:51
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8/11/6/90

PRIMARY COLUMN

Output redirected to LPT1:

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-01-1990 09:39:28 Version 4.1 **********************
* Sample Name: TCMX 0.009 UG/ML                    Data File: W:2IC5       *
* Date: 10-28-1990 16:14:32 Method: W:2TCMXR  10-31-1990 13:52:08  #  91   *
* Interface: 0   Cycle#:  5    Operator DKC Channel#: 1    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
***************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*             Detector 0: ECD QUANT CONF        Detector 1: ECD CONF QUANT *
* Misc. Information: PRIMARY COLUMN                          PERFORMANCE EVA *
***************************************************************************
Starting Delay:    0.00                      Ending retention time:   40.00
Area reject:        0                        One sample per   1.002 sec.
Amount injected:        1.00                 Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	1.42	TCMX	0.0090	100.0000%	792169	205357	3.9	1	9	9	0	1.1361E-08
9	24.10	MIREX	1.0000	0.0000%	2299187	38810	59.2	1	9	9	0	4.3494E-07

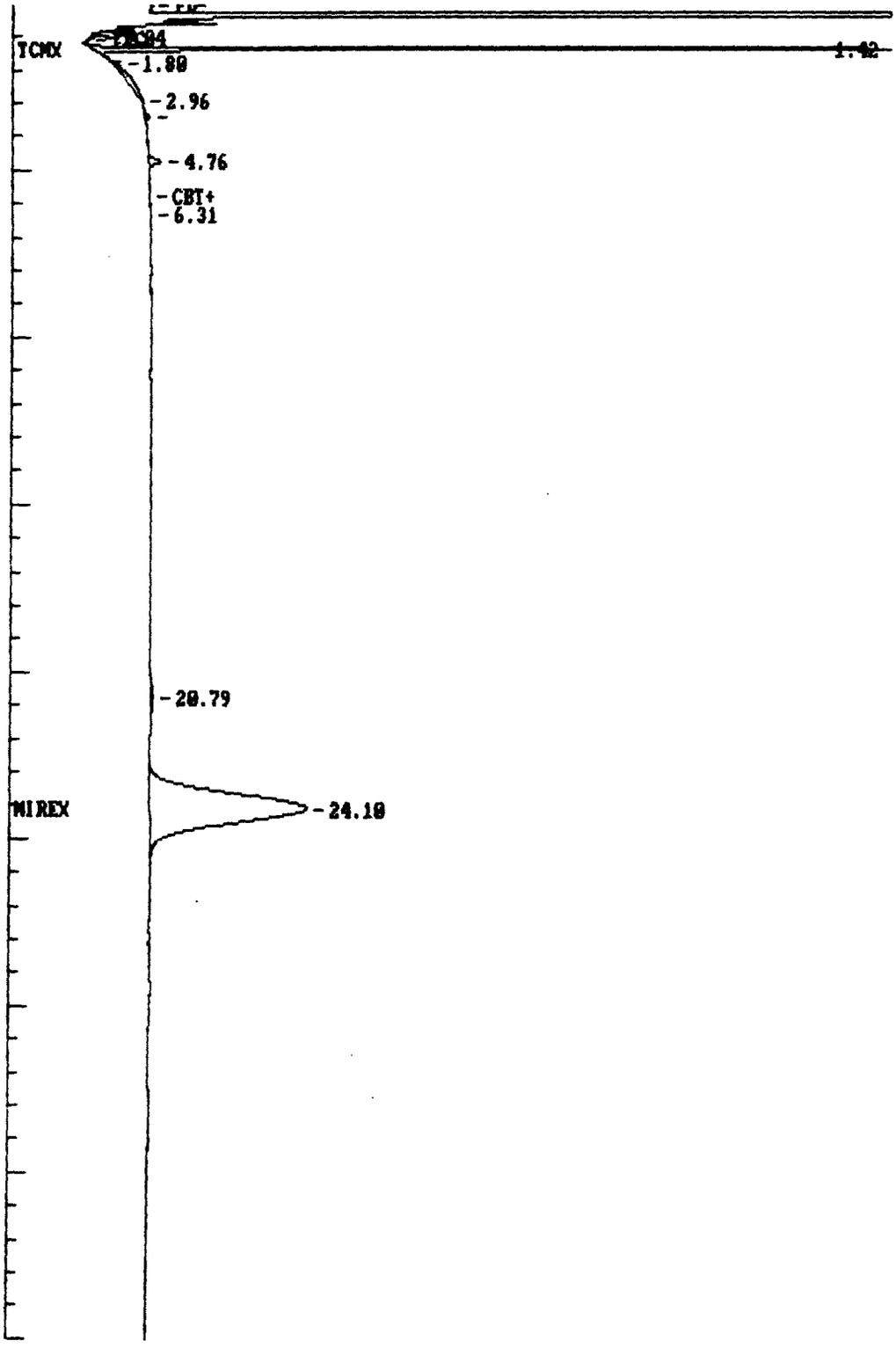
TOTAL AMOUNT = 0.0090

KM
11/5/90

W:2TCMXR 10-31-1990

PRIMARY COLUMN

as, times, and heights stored in: W:2IC5.ATB
ata File = W:2IC5.PTS Printed on 11-01-1990 at 09:39:40
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 08:32:39 Version 4.1 **********

* Sample Name: TCMX #3 Data File: W:2MAG25 *
* Date: 11-01-1990 04:11:49 Method: W:2TCMXR 10-31-1990 13:52:08 # 91 *
* Interface: 0 Cycle#: 25 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PRIMARY COLUMN~~ *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

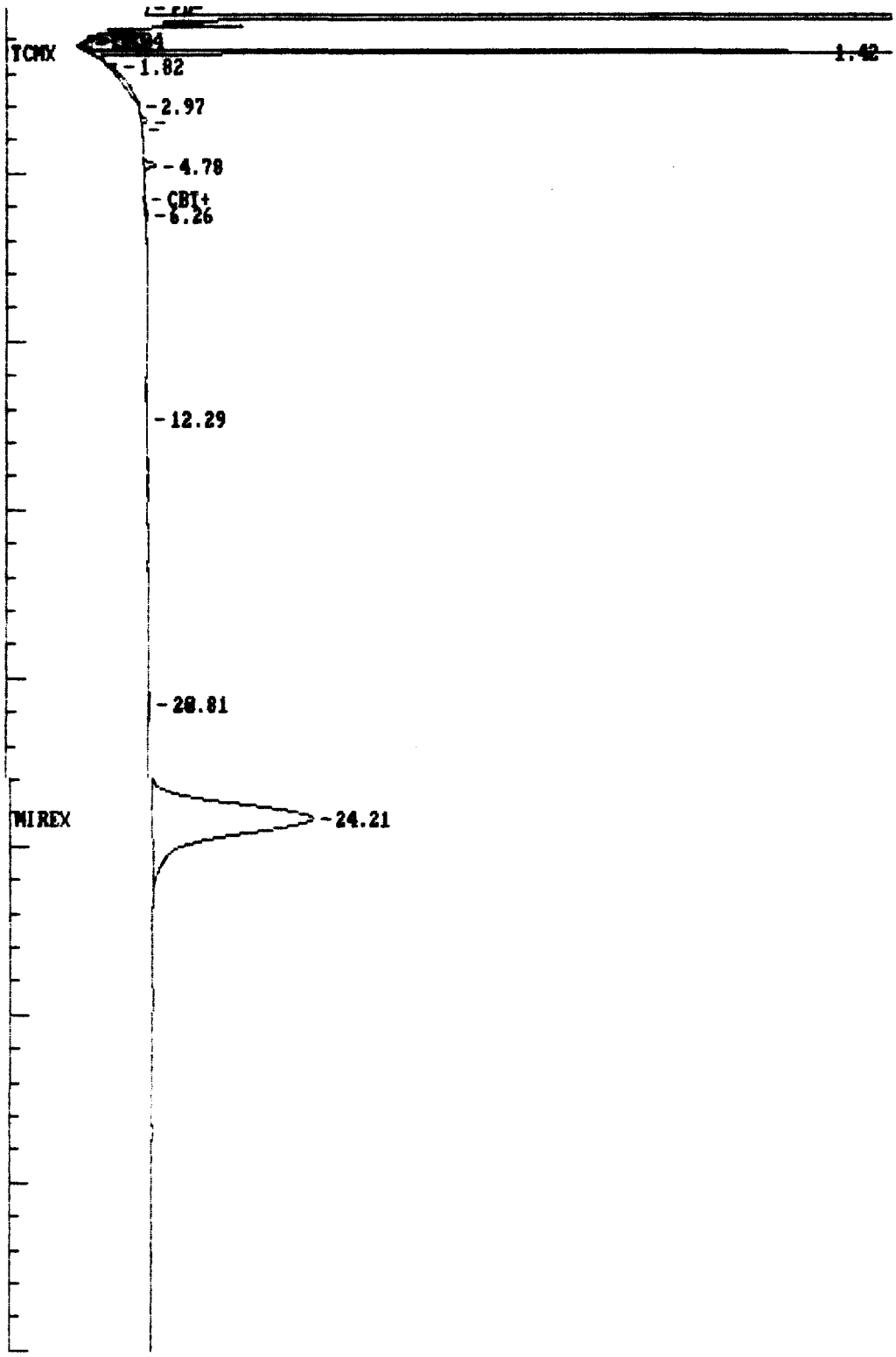
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	1.42	TCMX	0.0093	100.0000%	799505	205129	3.9	1	12	12	-.4827	1.1631E-08
12	24.21	MIREX	1.0000	0.0000%	2245835	38077	59.0	1	12	12	0	4.4527E-07

TOTAL AMOUNT = 0.0093

KM
11/5/90

PRIMARY COLUMN

a File = W:2MAG16.PTS Printed on 11-02-1990 at 08:31:40
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/5/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 11:02:27 Version 4.1 **********

* Sample Name: TCMX #4 Data File: W:2MAG37 *
* Date: 11-01-1990 13:17:46 Method: W:2TCMXR 10-31-1990 13:52:08 # 91 *
* Interface: 0 Cycle#: 37 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

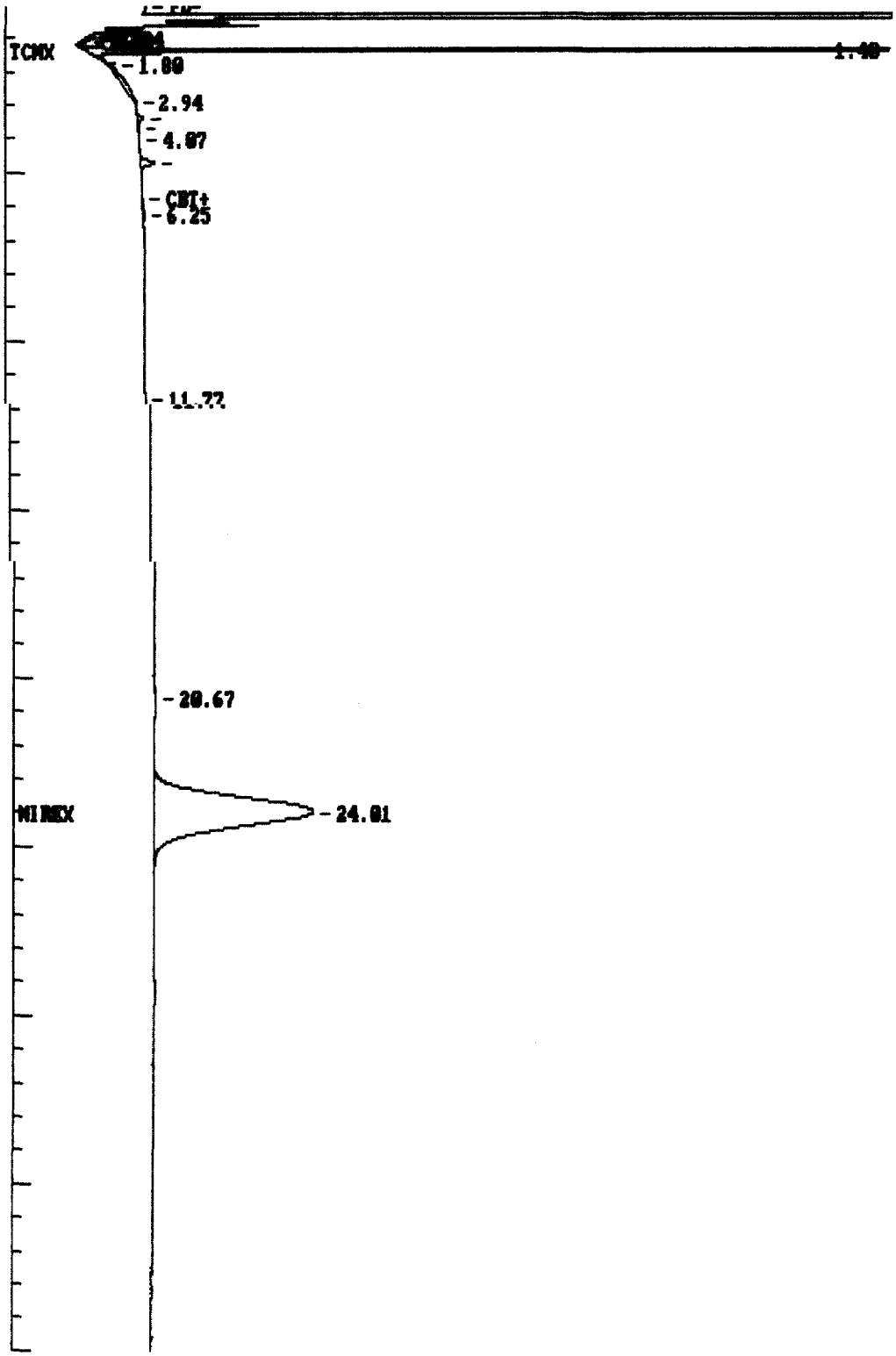
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	1.40	TCMX	0.0090	100.0000%	797119	196359	4.1	1	12	12	-.8328	1.1335E-08
12	24.01	MIREX	1.0000	0.0000%	2304423	38830	59.3	1	12	12	0	4.3395E-07

TOTAL AMOUNT = 0.0090

4 11/6/90

PRIMARY COLUMN

Data File = W:2MAG37.PTS Printed on 11-02-1990 at 11:02:38
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 11:03:38 Version 4.1 **********

* Sample Name: TCMX # 5 Data File: W:2MAG46 *
* Date: 11-01-1990 19:37:09 Method: W:2TCMXR 10-31-1990 13:52:08 # 91 *
* Interface: 0 Cycle#: 46 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

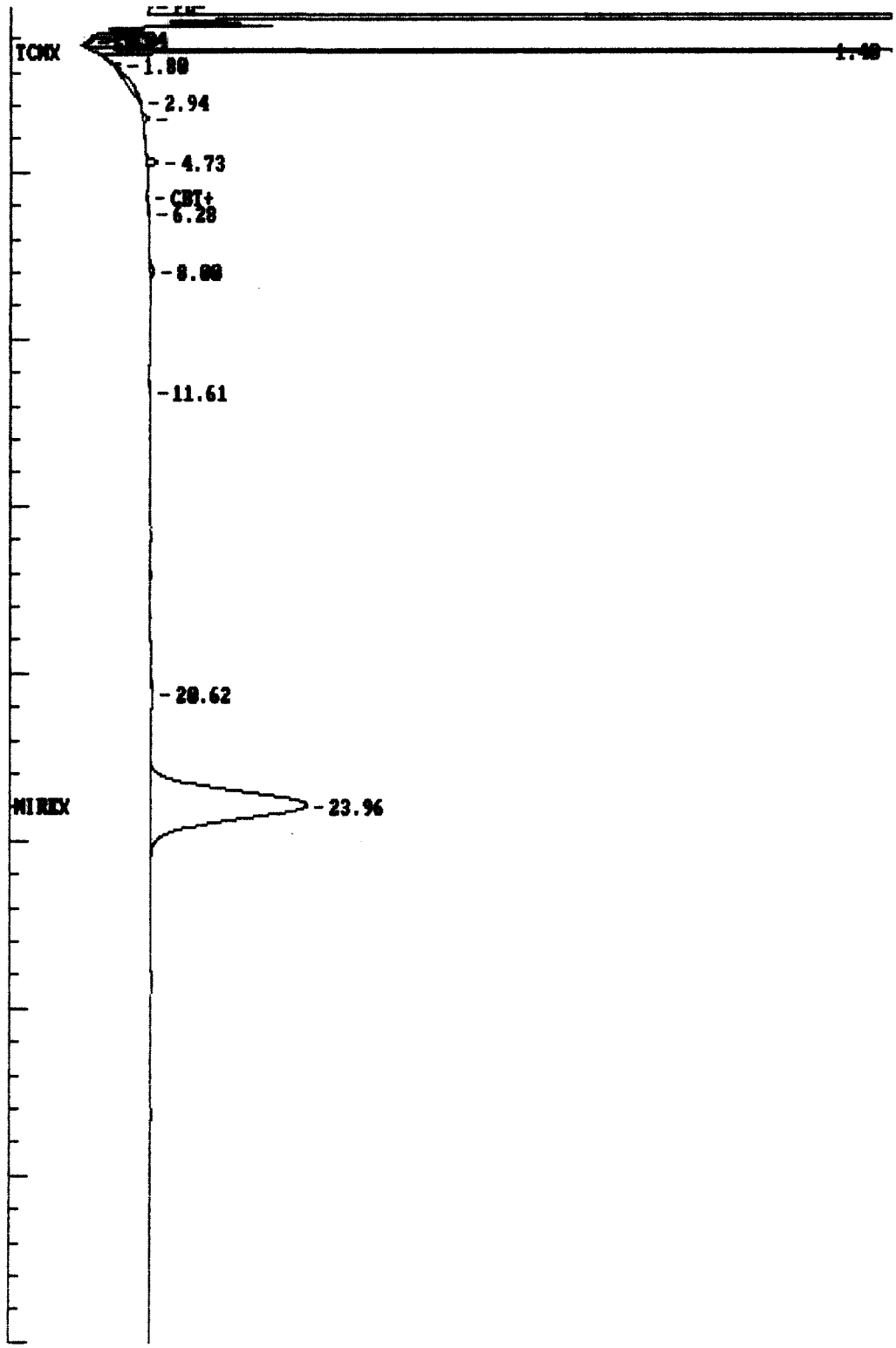
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/Km\	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	1.40	TCMX	0.0092	100.0000%	793751	205676	3.9	1	11	11	-.6255	1.1539E-08
11	23.96	MIREX	1.0000	0.0000%	2263789	38421	58.9	1	11	11	0	4.4174E-07

TOTAL AMOUNT = 0.0092

11/6/90

PRIMARY COLUMN

Data File = W:2MAG46.PTS Printed on 11-02-1990 at 11:03:50
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

Output redirected to LPT1:
Output redirected to LPT1:
Output redirected to LPT1:
Output redirected to LPT1:

***** INTERNAL STANDARD TABLE *****

********** 10-30-1990 15:44:56 Version 4.1 **********

* Sample Name: TCMX 0.009 UG/ML Data File: W:1IC4 *
* Date: 10-28-1990 16:04:25 Method: W:1TCMX 10-30-1990 15:41:31 # 132 *
* Interface: 0 Cycle#: 4 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

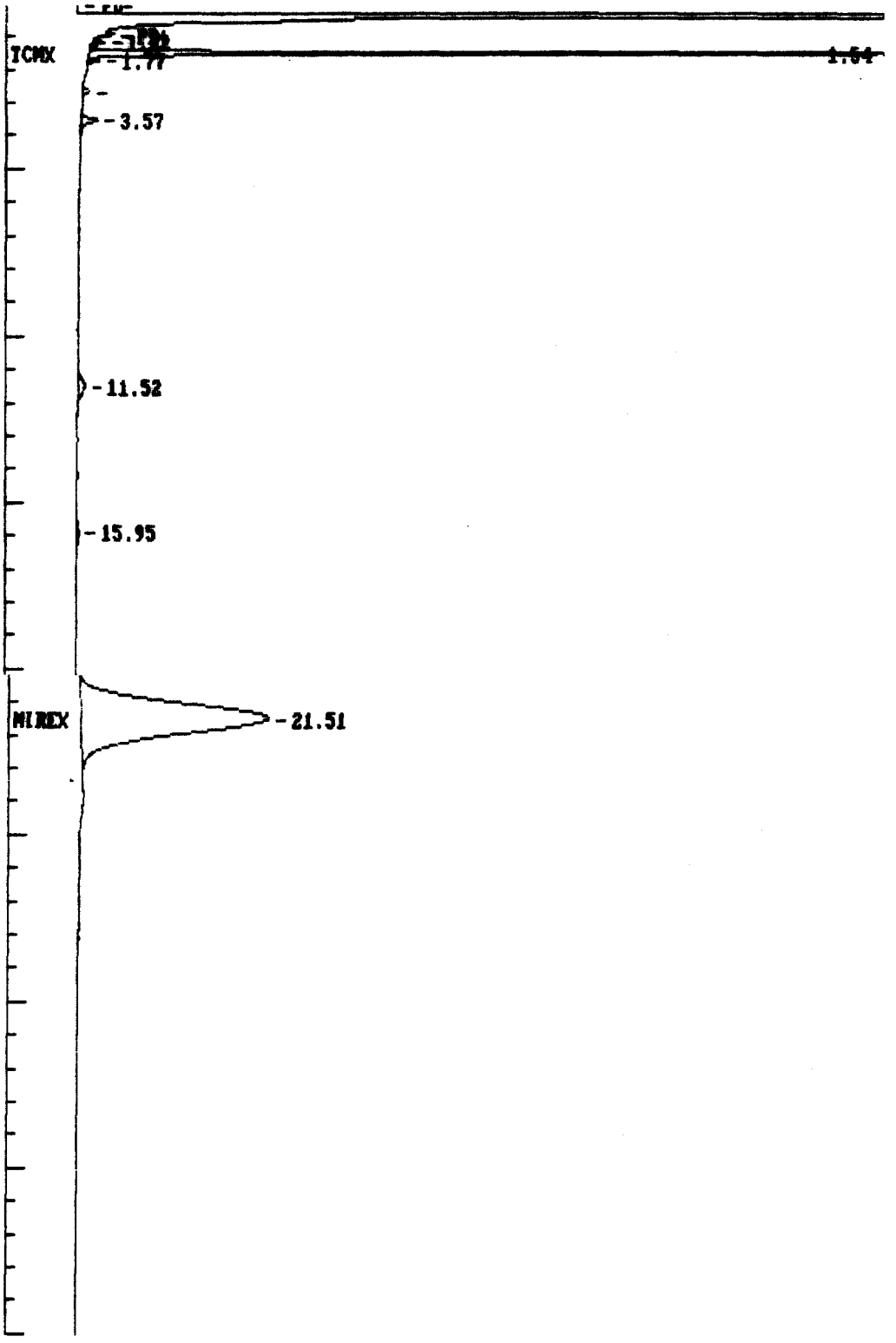
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	1.54	TCMX	0.0090	100.0000%	1048800	229238	4.6	3	8	8	0	8.5812E-09
8	21.51	MIREX	1.0000	0.0000%	2946943	46526	63.3	1	8	8	0	3.3933E-07

TOTAL AMOUNT = 0.0090

KM
11/5/90

SECONDARY COLUMN

Areas, times, and heights stored in: W:1IC4.ATB
Data File = W:1IC4.PTS Printed on 10-30-1990 at 15:45:08
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 08:55:03 Version 4.1 **********

* Sample Name: TCMX #3 Data File: W:1MAG24 *
* Date: 11-01-1990 03:27:48 Method: W:1TCMX 11-02-1990 08:53:53 # 134 *
* Interface: 0 Cycle#: 24 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

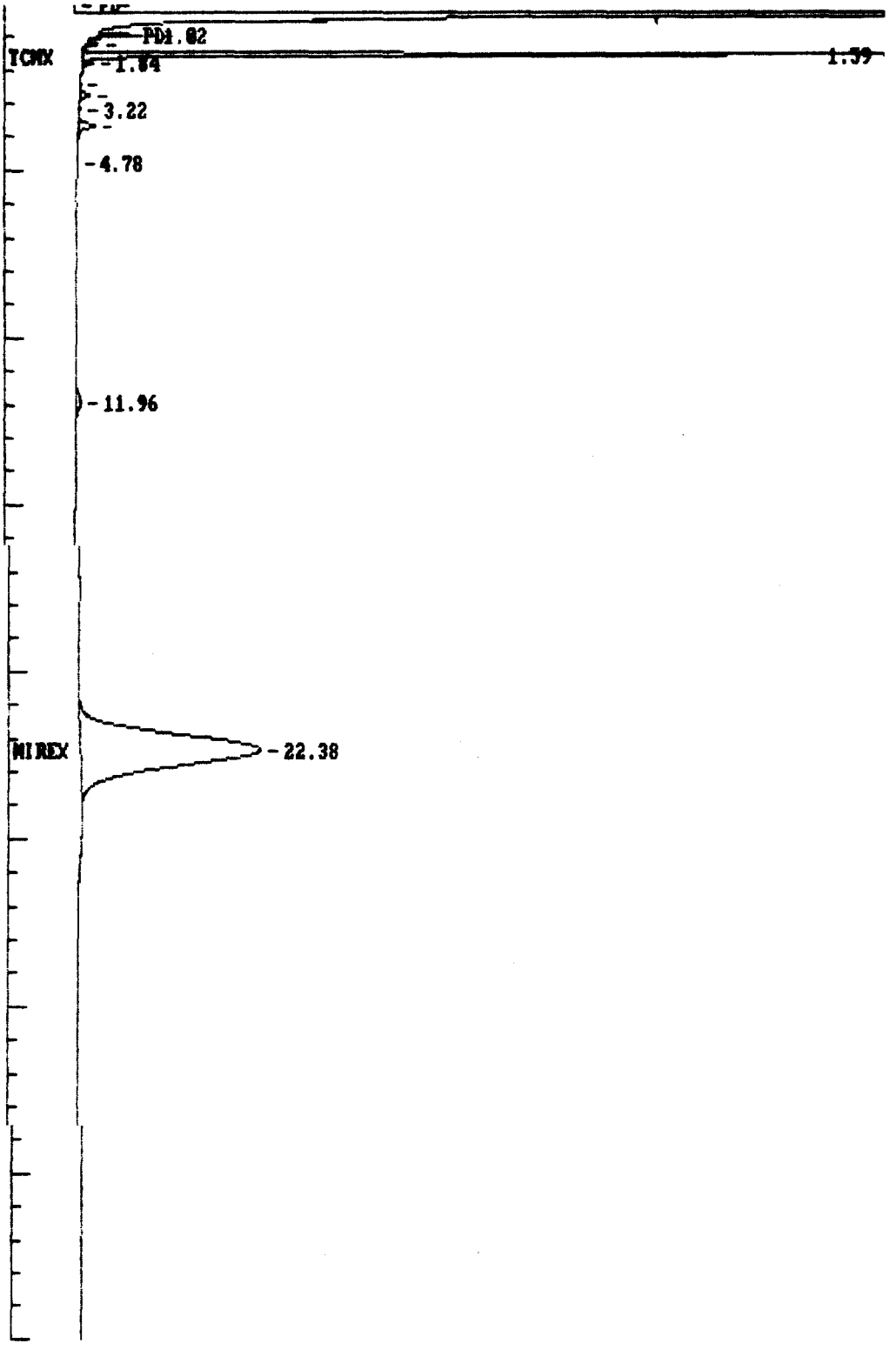
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~K~~ML	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.60	TCMX	0.0093	100.0000%	1039117	220546	4.7	3	12	12	-.6651	8.9081E-09
12	22.60	MIREX	1.0000	0.0000%	2838797	43917	64.6	1	12	12	0	3.5226E-07

TOTAL AMOUNT = 0.0093

VCM
11/5/90

SECONDARY COLUMN

Data File = W:1MAG15.PTS Printed on 11-02-1990 at 08:56:43
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/5/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 12:08:31 Version 4.1 **********

* Sample Name: TCMX # 4 Data File: W:1MAG36 *
* Date: 11-01-1990 13:14:37 Method: W:1TCMX 11-02-1990 08:53:53 # 134 *
* Interface: 0 Cycle#: 36 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

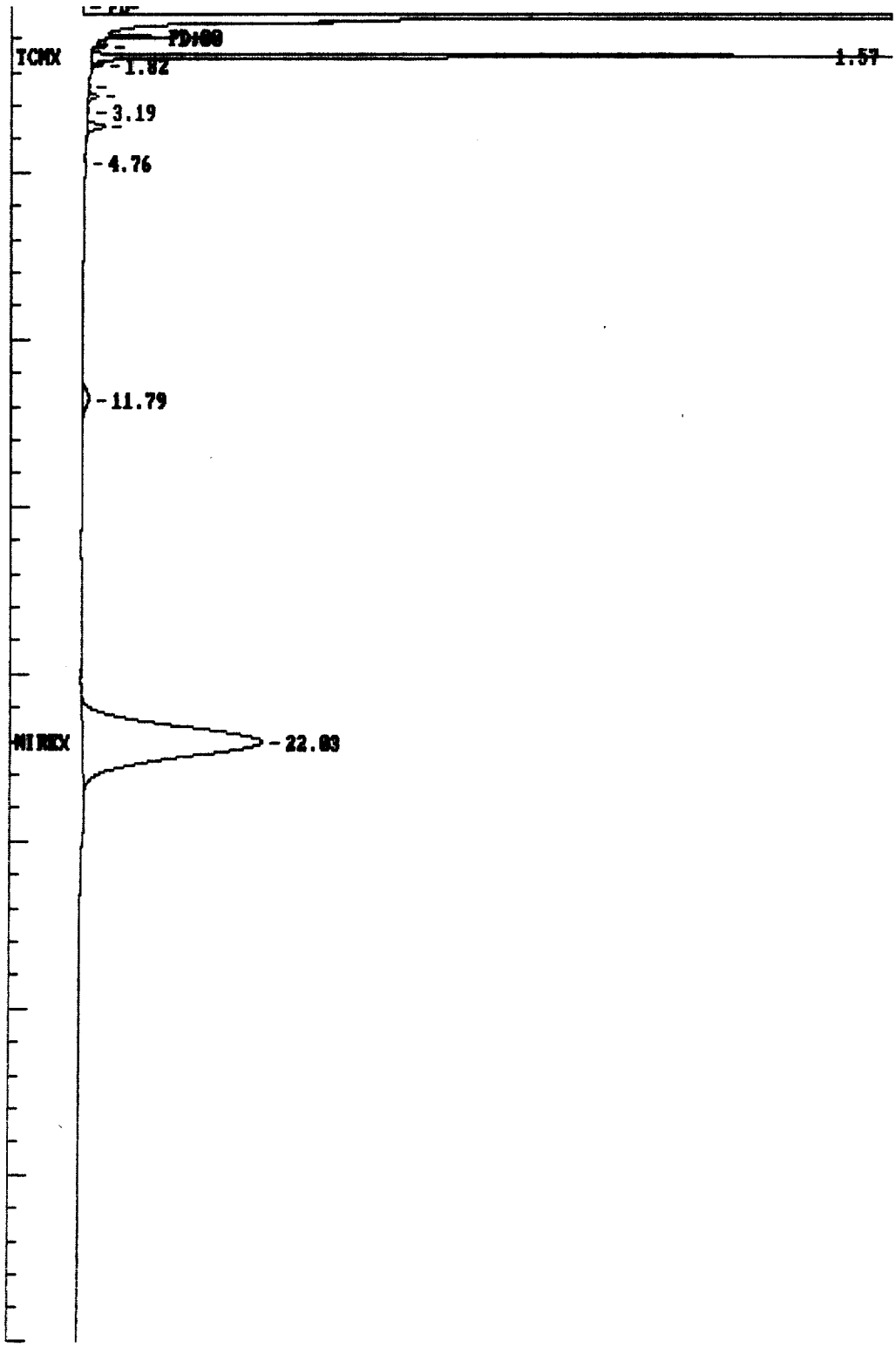
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/Kml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.57	TCMX	0.0092	100.0000%	1030881	220860	4.7	3	11	11	-.2274	8.8940E-09
11	22.03	MIREX	1.0000	0.0000%	2843308	44564	63.8	1	11	11	0	3.5170E-07

TOTAL AMOUNT = 0.0092

8 11/6/90

SECONDARY COLUMN

Data File = W:1MAG36.PTS Printed on 11-02-1990 at 12:08:42
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SECONDARY COLUMN

```
*****   INTERNAL STANDARD TABLE   *****
******************** 11-02-1990 12:09:35 Version 4.1 **********************
* Sample Name: TCMX # 5                          Data File: W:1MAG45        *
* Date: 11-01-1990 18:53:03 Method: W:1TCMX  11-02-1990 08:53:53  #  134   *
* Interface: 0   Cycle#:  45   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD ~~QUANT~~CONF        Detector 1: ECD ~~CONF~~QUANT   *
* Misc. Information: ~~PERFORMANCE EVALUATION~~          LPT1:          *   *
*************************************************************************
Starting Delay:    0.00                      Ending retention time:   40.00
Area reject:         0                       One sample per   1.002 sec.
Amount injected:        1.00                 Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

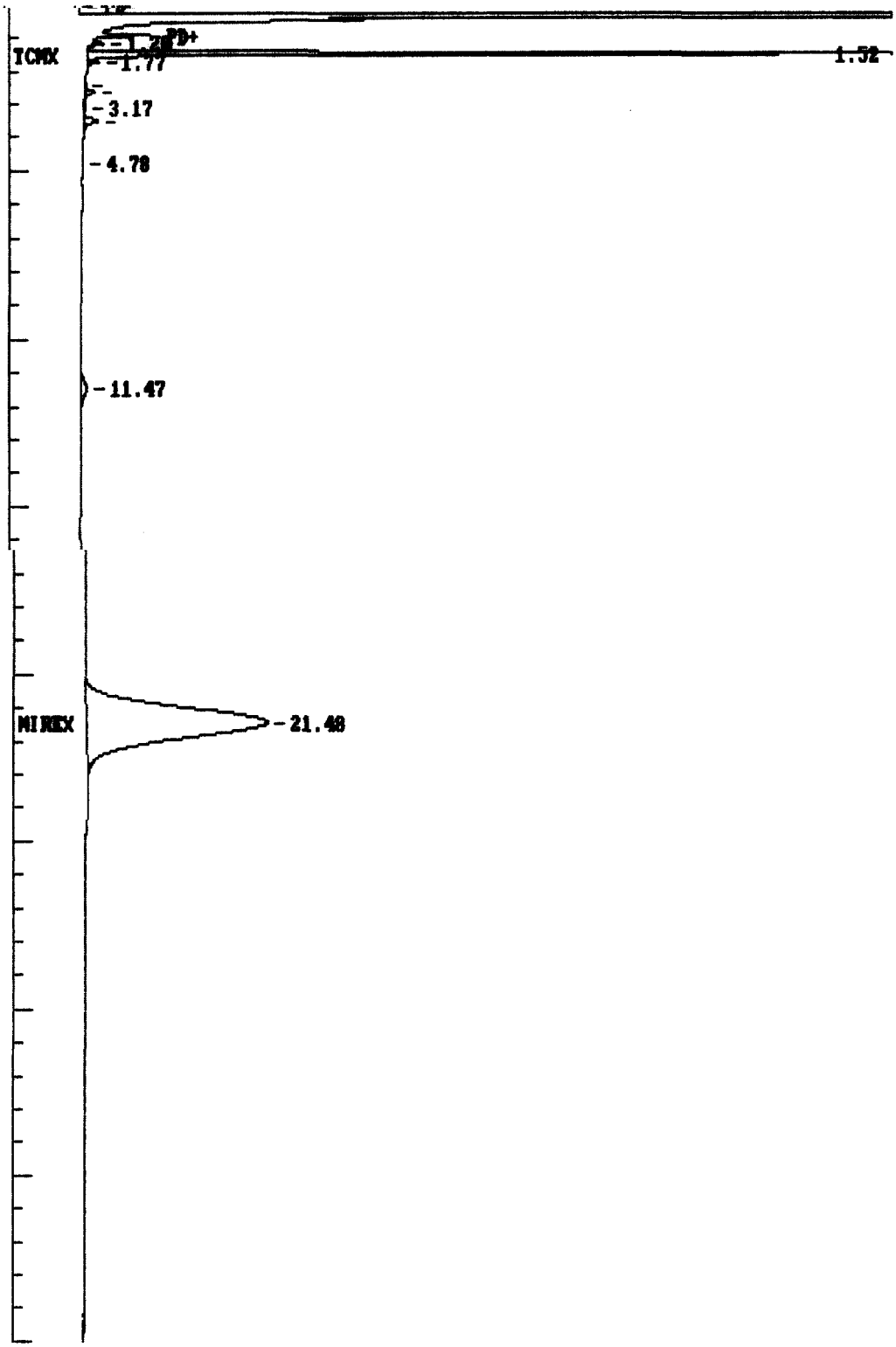
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/l/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	1.52	TCMX	0.0090	100.0000%	1011325	217887	4.6	3	10	10	-.9331	8.9079E-09
10	21.48	MIREX	1.0000	0.0000%	2838871	44604	63.6	1	10	10	0	3.5225E-07

TOTAL AMOUNT = 0.0090

80 11/6/90

SECONDARY COLUMN

Data File = W:1MAG45.PTS Printed on 11-02-1990 at 12:09:48
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



PART IV

AQC Reports and Chromatograms

A. Solvent Blanks
   i) Primary
   ii) Secondary

B. Method Blank
   i) Primary
   ii) Secondary

C. Matrix Spike/Matrix Spike Duplicates Pesticide and PCB
   i) Primary
   ii) Secondary

4

PRIMARY COLUMN

Output redirected to LPT1:

****** EXTERNAL STANDARD TABLE ******

********** 11-01-1990 12:50:56 Version 4.1 **********

* Sample Name: HEXANE-1 Data File: W:2IC2 *
* Date: 10-28-1990 14:09:32 Method: W:2PESTA2 11-01-1990 12:49:01 # 124*
* Interface: 0 Cycle#: 2 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~3.47~~	~~HEPT~~	~~0.0040~~	~~0.4876%~~	~~427431~~	~~1826~~	~~234.1~~	~~1~~	~~0~~	~~4.836~~	~~9.3622E-09~~
8	24.33	MIREX	~~0.8133~~	99.5104%	2322593	39103	59.4	1	8	0	3.5016E-07

TOTAL AMOUNT = 0.8173

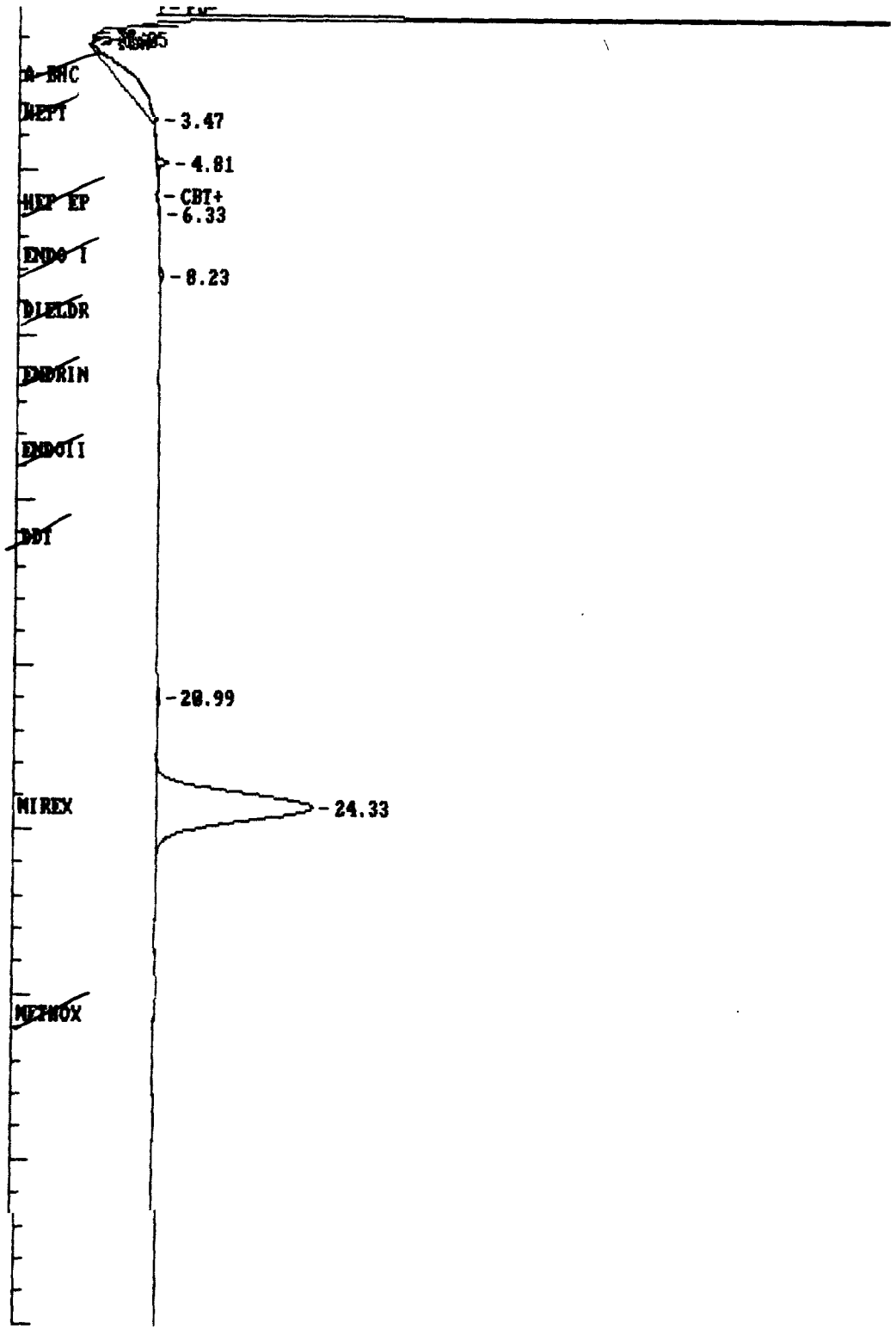
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	2.11	MIREX
LINDANE	2.67	MIREX
ALDRIN	4.03	MIREX
HEP EPOX	6.02	MIREX
ENDO I	7.58	MIREX
DIELDRIN	9.24	MIREX
ENDRIN	11.18	MIREX
ENDOII	13.51	MIREX
DDT	16.11	MIREX
METHOXYCHLOR	30.57	MIREX

DKC
11/5/90

PRIMARY COLUMN

.le = W:2IC2.PTS Printed on 11-01-1990 at 12:51:13
Time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Range: 200 millivolts



DFC
11/5/90

SECONDARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-01-1990 11:27:31 Version 4.1 **********

* Sample Name: HEXANE-1 Data File: W:1IC1 *
* Date: 10-28-1990 13:14:02 Method: W:1PESTA1 11-01-1990 10:58:37 # 156*
* Interface: 0 Cycle#: 1 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~CONF Detector 1: ECD ~~CONF~~QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~5~~	~~11.97~~	~~DDT~~	~~0.0015~~	~~0.1249%~~	~~49974~~	~~1518~~	~~32.9~~	~~1~~	~~6~~	~~1.026~~	~~2.9912E-08~~
6	22.39	MIREX	~~1.1949~~	99.8751%	3032929	47146	64.3	1	6	0	3.9398E-07

TOTAL AMOUNT = 1.1964

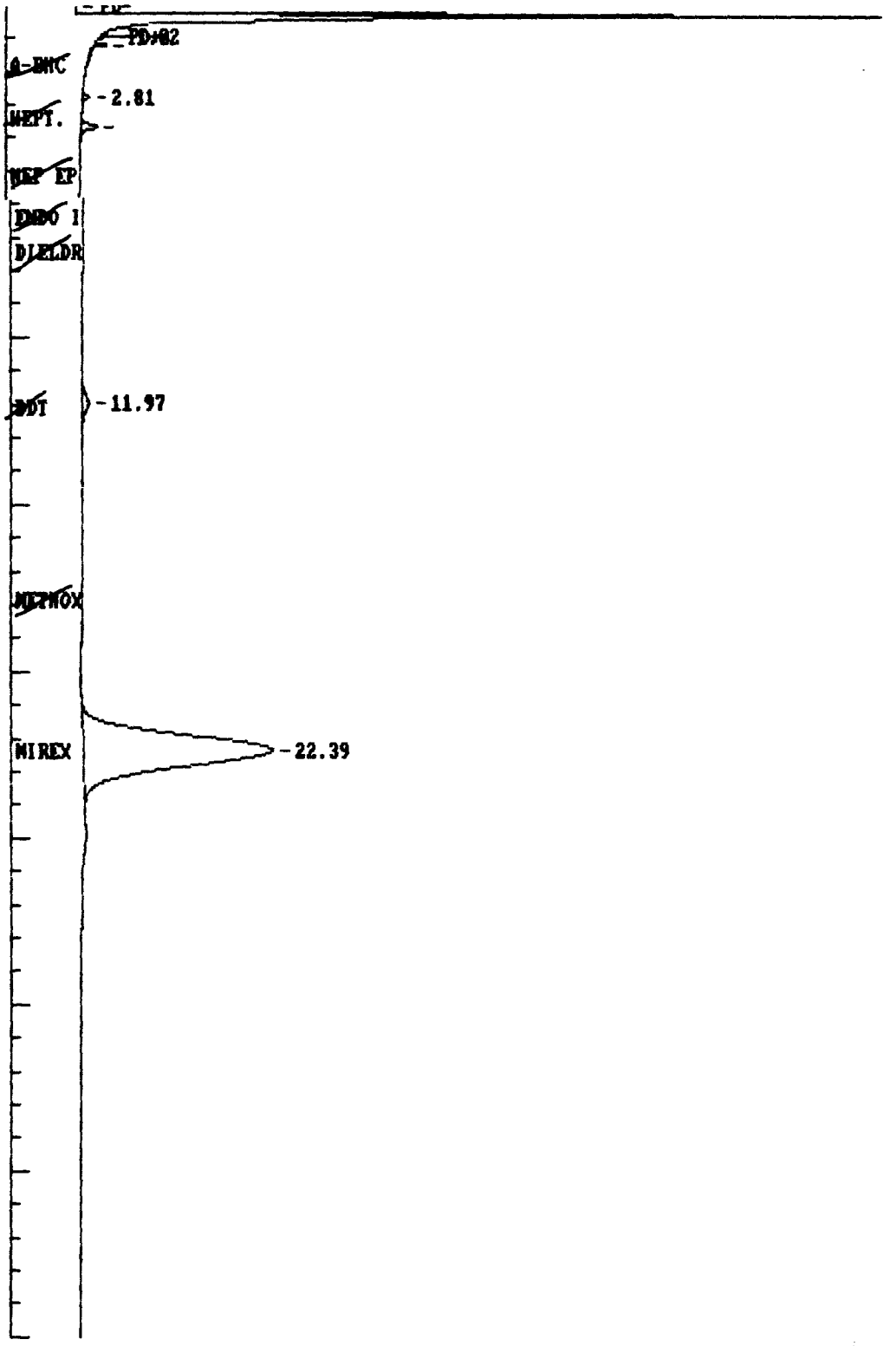
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	1.84	MIREX
LINDANE	2.15	MIREX
HEPT.	3.43	MIREX
ALDRIN	4.24	MIREX
HEP EPOX	5.14	MIREX
ENDO I	6.39	MIREX
DIELDRIN	7.44	MIREX
EN + EN II	8.39	MIREX
METHOXYCHLOR	17.86	MIREX

DKC
11/5/90

SECONDARY COLUMN

times, and heights stored in: W:1IC1.ATB
File = W:1IC1.PTS Printed on 11-01-1990 at 11:27:49
time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Range: 200 millivolts



DKC
11/5/90

PRIMARY COLUMN

EXTERNAL STANDARD TABLE

********** 11-02-1990 10:19:29 Version 4.1 **********

* Sample Name: HEXANE-2 Data File: W:2MAG28 *
* Date: 11-01-1990 06:24:02 Method: W:2PESTAR 10-31-1990 14:14:23 # 128*
* Interface: 0 Cycle#: 28 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONFIRM~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~2~~	~~3.46~~	~~HEPT~~	~~0.0057~~	~~0.4840%~~	~~457412~~	~~2603~~	~~175.7~~	~~1~~	~~10~~	~~4.958~~	~~1.2397E-08~~
~~3~~	~~4.01~~	~~ALDRIN~~	~~0.0003~~	~~0.0289%~~	~~550~~	~~62~~	~~8.9~~	~~1~~	~~10~~	~~.6385~~	~~6.1578E-07~~
~~6~~	~~6.25~~	~~HEP EPOX~~	~~0.0001~~	~~0.0086%~~	~~13474~~	~~510~~	~~26.4~~	~~2~~	~~10~~	~~4.699~~	~~7.4990E-09~~
10	24.27	MIREX	~~1.1654~~	99.4784%	2313962	38819	59.6	1	10	0	5.0363E-07

TOTAL AMOUNT = 1.1715

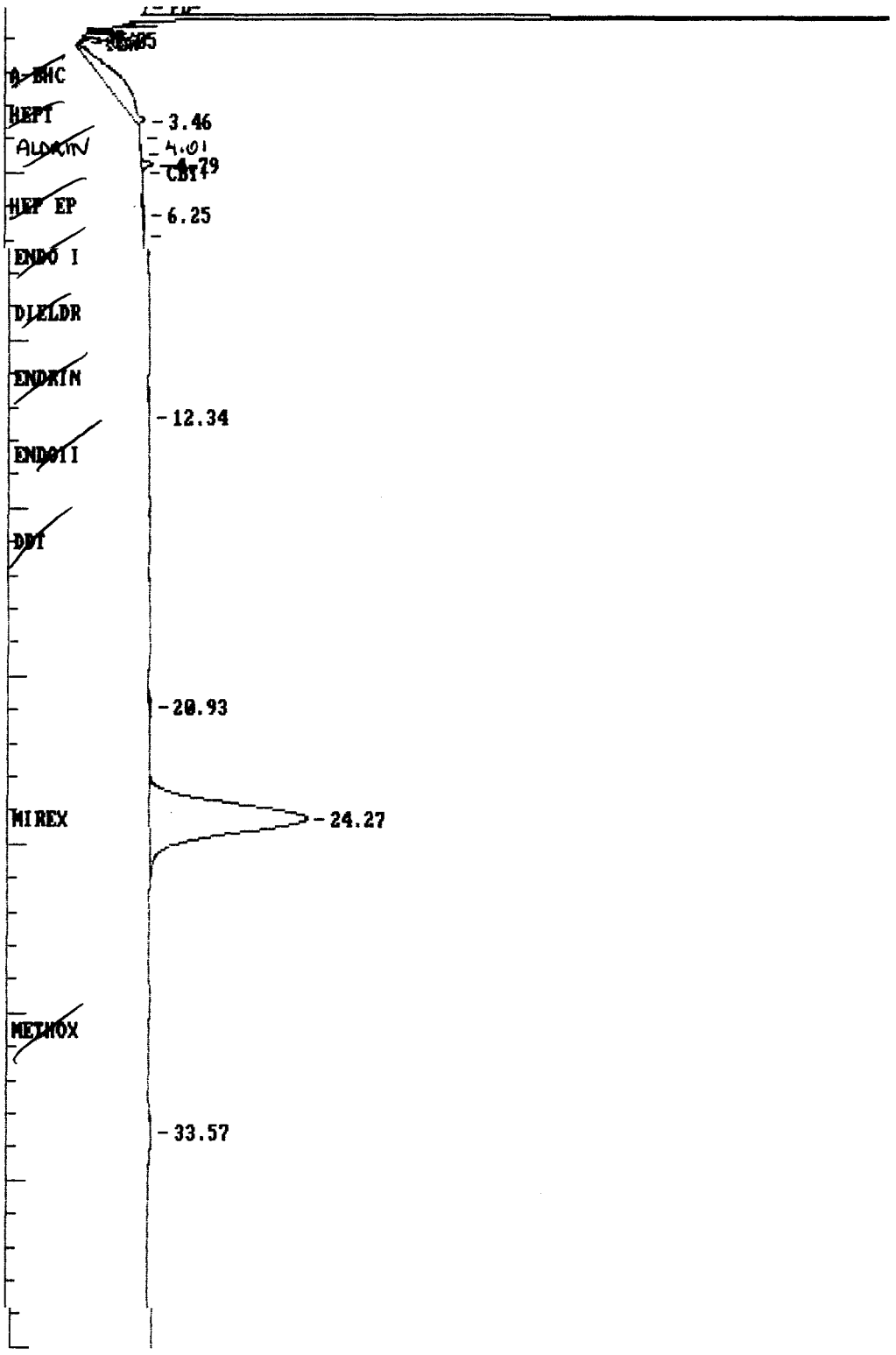
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	2.08	MIREX
LINDANE	2.64	MIREX
ENDO I	7.51	MIREX
DIELDRIN	9.18	MIREX
ENDRIN	11.11	MIREX
ENDOII	13.41	MIREX
DDT	16.01	MIREX
METHOXYCHLOR	30.48	MIREX

11/6/90

PRIMARY COLUMN

Data File = W:2MAG28.PTS Printed on 11-02-1990 at 10:19:48
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8
11/6/90

PRIMARY COLUMN

```
****** EXTERNAL STANDARD TABLE ******
******************** 11-02-1990 10:37:59 Version 4.1 **********************
* Sample Name: HEXANE-2                          Data File: W:2MAG28        *
* Date: 11-01-1990 06:24:02 Method: W:2PESTBR  10-31-1990 14:25:13  #  211*
* Interface: 0   Cycle#:  28   Operator DKC Channel#: 1    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS       *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD ~~QUANT~~ CONF        Detector 1: ECD ~~CONF~~ QUANT  *
* Misc. Information: ~~PRIMARY COLUMN~~                  ~~PERFORMANCE EVA~~  *
*************************************************************************
Starting Delay:    0.00                        Ending retention time:    40.00
Area reject:        0                          One sample per   1.002 sec.
Amount injected:        1.00                   Dilution factor:        1.00
Sample Weight:          1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~Kg~~ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~2~~	~~3.46~~	~~D-BHC~~	~~0.0007~~	~~0.0612%~~	~~43594~~	~~2453~~	~~17.8~~	~~2~~	~~10~~	~~-1.216~~	~~1.5300E-08~~
~~7~~	~~6.86~~	~~G-CHLORDANE~~	~~0.0003~~	~~0.0235%~~	~~3408~~	~~131~~	~~26.1~~	~~2~~	~~10~~	~~3.434~~	~~7.5223E-08~~
~~9~~	~~20.93~~	~~END SULFATE~~	~~0.0007~~	~~0.0684%~~	~~9747~~	~~315~~	~~30.9~~	~~1~~	~~10~~	~~-1.426~~	~~-7.6460E-08~~
10	24.27	MIREX	~~1.0903~~	100.0307%	2313962	38819	59.6	1	10	0	4.7120E-07

TOTAL AMOUNT = 1.0900

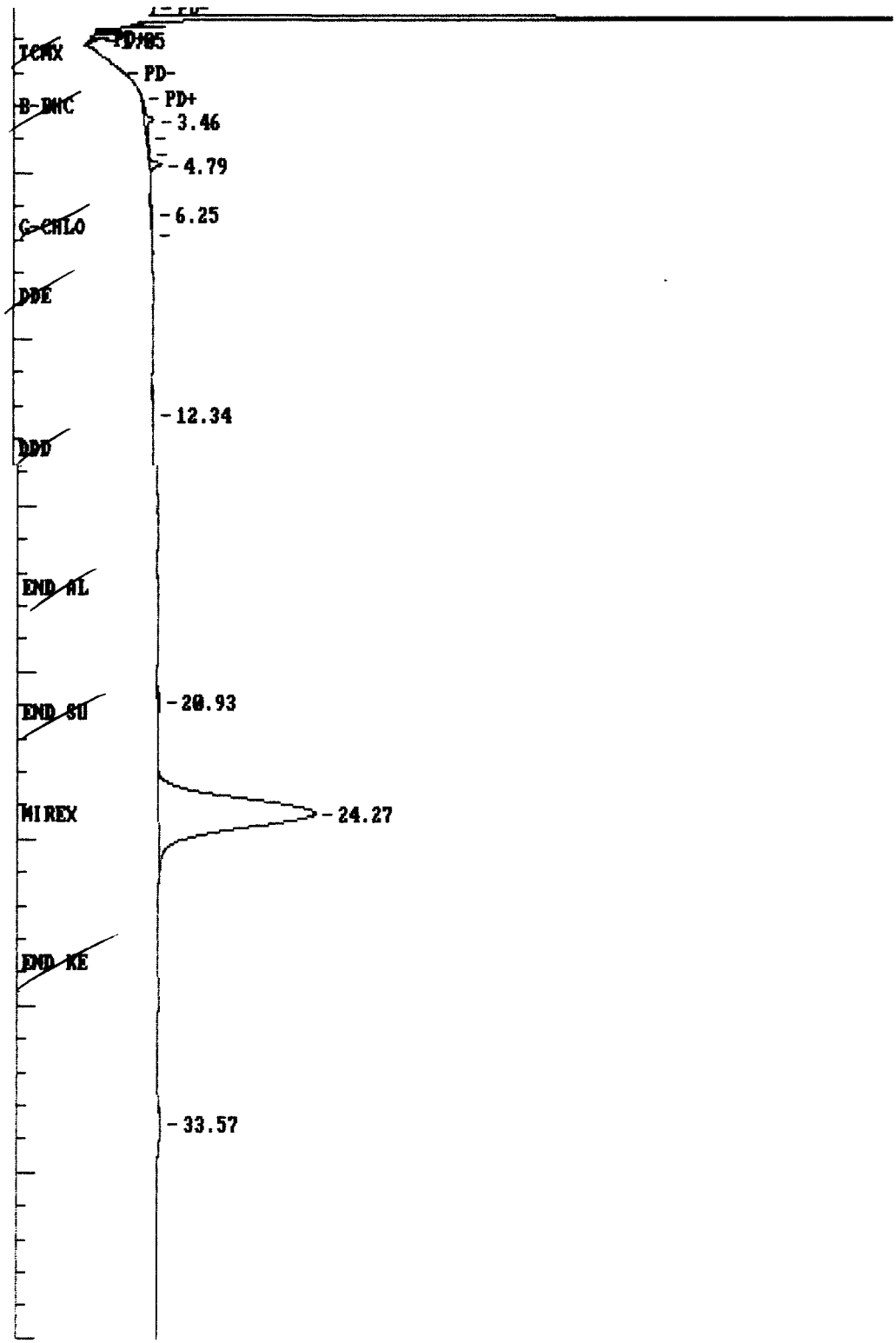
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.40	MIREX
B-BHC	3.00	MIREX
A-CHLORDANE	7.25	MIREX
DDE	8.68	MIREX
DDD	13.26	MIREX
END ALDEHYDE	17.41	MIREX
END KETONE	28.72	MIREX

SB
11/6/90

PRIMARY COLUMN

Data File = W:2MA628.PTS Printed on 11-02-1990 at 10:38:18
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SB
11/6/90

SECONDARY COLUMN

```
*****   EXTERNAL  STANDARD  TABLE   *****
******************** 11-02-1990 11:31:44 Version 4.1 *********************
* Sample Name: HEXANE-2                          Data File: W:1MAG27       *
* Date: 11-01-1990 05:40:01 Method: W:1PESTA1  11-01-1990 10:58:37  #  156*
* Interface: 0   Cycle#:  27   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*           Detector 0: ECD ~~QUANT~~CONF        Detector 1: ECD ~~CONF~~QUANT  *
* Misc. Information: ~~PERFORMANCE EVALUATION~~          LPT1:          *   *
*************************************************************************
Starting Delay:    0.00                      Ending retention time:   40.00
Area reject:         0                       One sample per   1.002 sec.
Amount injected:        1.00                 Dilution factor:        1.00
Sample Weight:          1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~7~~	~~12.14~~	~~DDT~~	~~0.0017~~	~~0.1464%~~	~~65757~~	~~1968~~	~~33.4~~	~~1~~	~~9~~	~~-.9752~~	~~2.5998E-08~~
9	22.70	MIREX	~~1.1657~~	99.8536%	2958827	45387	65.2	1	9	0	3.9398E-07

TOTAL AMOUNT = 1.1674

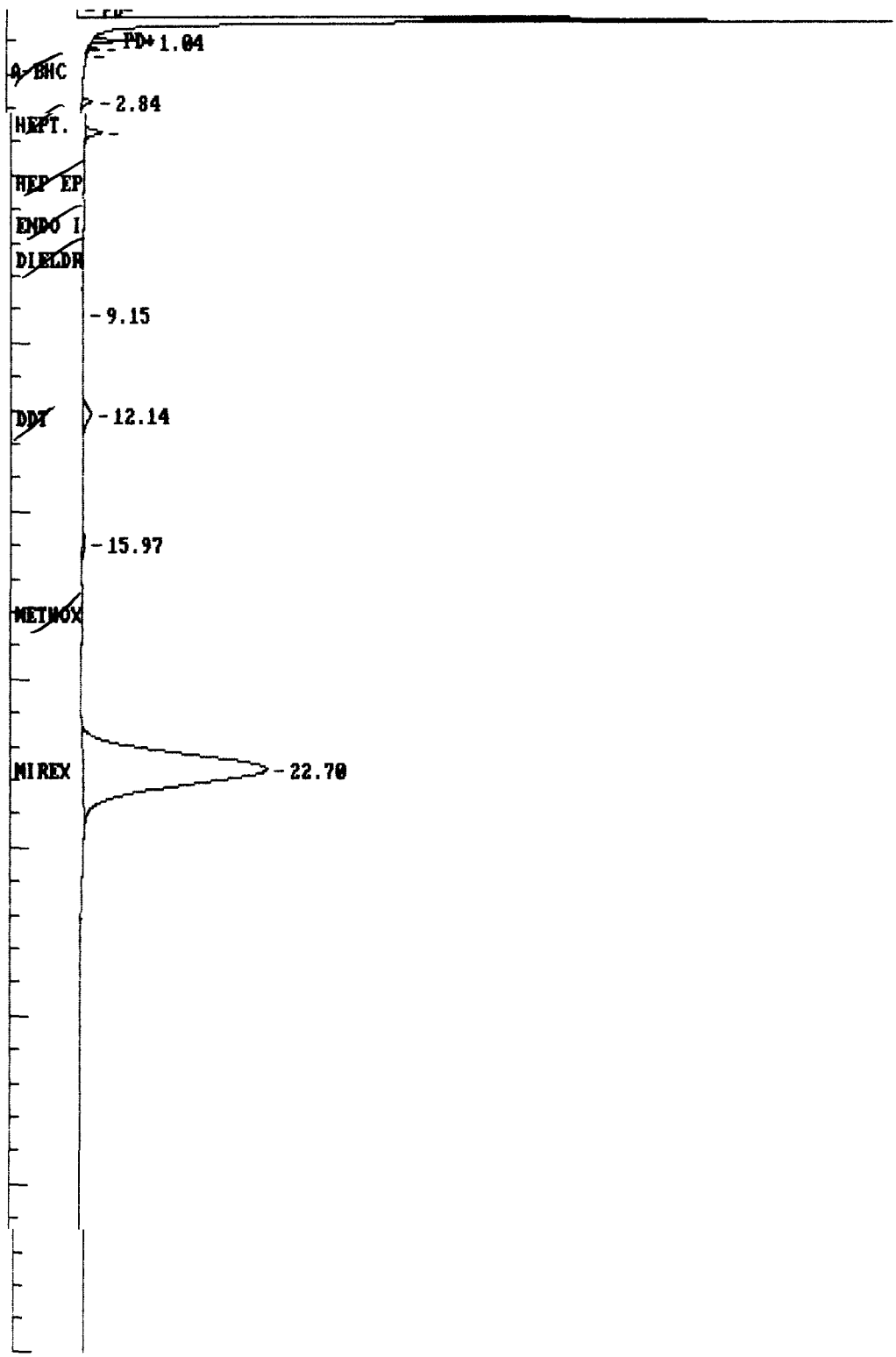
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	1.86	MIREX
LINDANE	2.18	MIREX
HEPT.	3.47	MIREX
ALDRIN	4.30	MIREX
HEP EPOX	5.21	MIREX
ENDO I	6.48	MIREX
DIELDRIN	7.54	MIREX
EN + EN II	8.50	MIREX
METHOXYCHLOR	18.10	MIREX

8
11/6/90

SECONDARY COLUMN

Data File = W:1MAG27.PTS Printed on 11-02-1990 at 11:32:01
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

SECONDARY COLUMN

```
*****   EXTERNAL  STANDARD  TABLE   *****
******************** 11-02-1990 11:45:23 Version 4.1 **********************
* Sample Name: HEXANE-2                          Data File: W:1MAG27        *
* Date: 11-01-1990 05:40:01 Method: W:1PESTB1  11-01-1990 11:33:53  #  156*
* Interface: 0   Cycle#:  27   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD ~~QUANT~~CONF        Detector 1: ECD ~~CONF~~QUANT   *
* Misc. Information: ~~PERFORMANCE EVALUATION~~              LPT1:          *  *
*************************************************************************
Starting Delay:    0.00                      Ending retention time:   40.00
Area reject:         0                       One sample per   1.002 sec.
Amount injected:        1.00                 Dilution factor:        1.00
Sample Weight:          1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~6~~	~~9.15~~	~~DDD+END ALD~~	~~0.0031~~	~~0.2823%~~	~~3486~~	~~62~~	~~55.8 1~~	~~9~~	~~2.205~~	~~8.8220E-07~~
9	22.70	MIREX	~~1.0865~~	99.7177%	2958827	45387	65.2 1	9	0	3.6720E-07

TOTAL AMOUNT = 1.0895

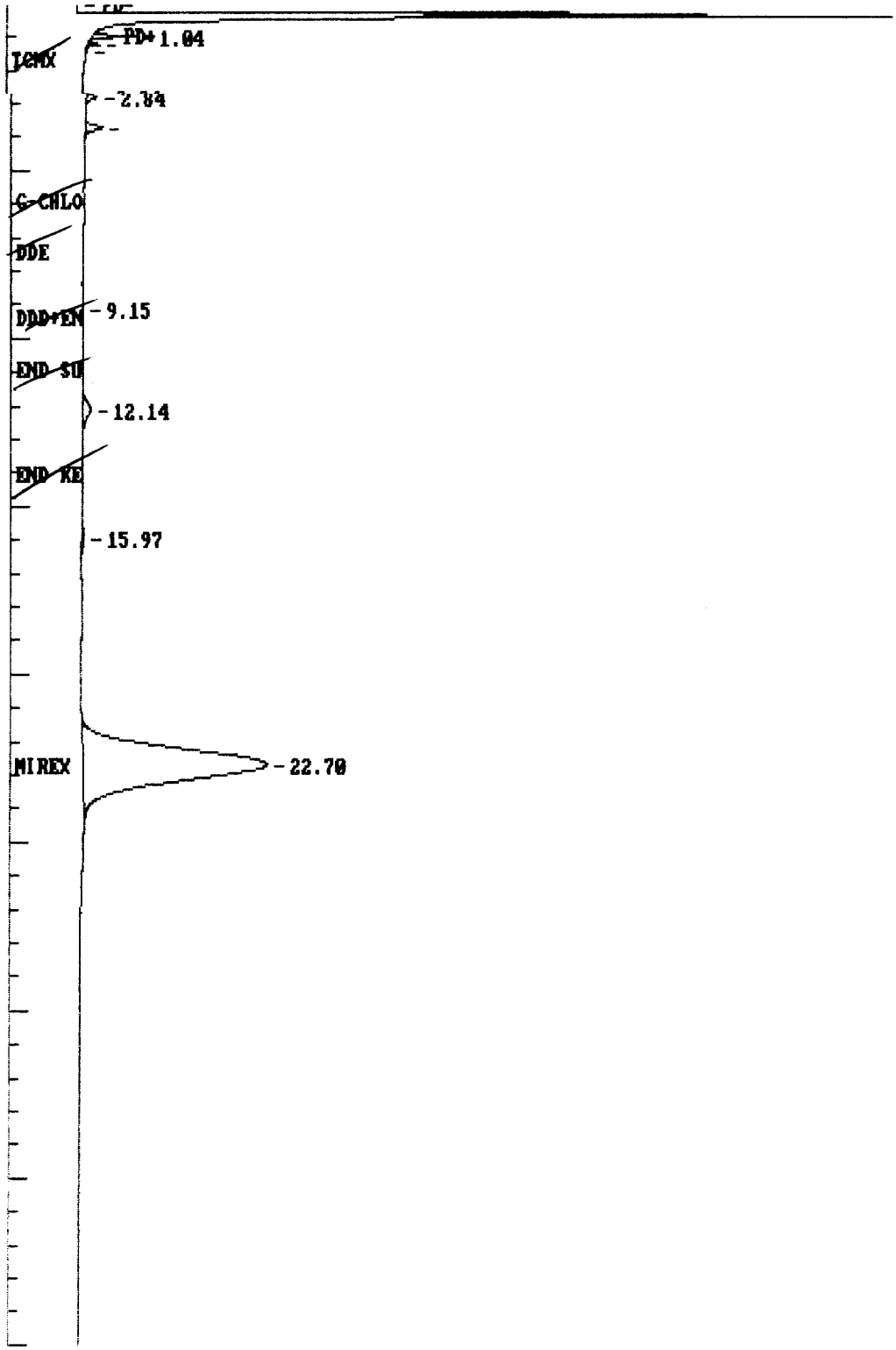
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
TCMX	1.67	MIREX
B-BHC	1.96	MIREX
D-BHC	2.21	MIREX
G-CHLOR	5.92	MIREX
A-CHLOR	6.54	MIREX
DDE	7.44	MIREX
END SULFATE	10.93	MIREX
END KETONE	14.03	MIREX

LD 11/6/90

SECONDARY COLUMN

Data File = W:1MAG27.PTS Printed on 11-02-1990 at 11:45:39
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

PRIMARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 10:20:46 Version 4.1 **********

* Sample Name: SF7452 MB Data File: W:2MA629 *
* Date: 11-01-1990 07:08:02 Method: W:2PESTAR 10-31-1990 14:14:23 # 128*
* Interface: 0 Cycle#: 29 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~10~~	~~3.24~~	~~HEPT~~	~~0.0002~~	~~0.0017%~~	~~1476~~	~~257~~	~~5.7~~	~~1~~	~~22~~	~~1.701~~	~~1.6078E-07~~
~~13~~	~~4.01~~	~~ALDRIN~~	~~0.0047~~	~~0.0337%~~	~~10468~~	~~836~~	~~12.5~~	~~1~~	~~22~~	~~.5693~~	~~4.5165E-07~~
~~17~~	~~7.30~~	~~ENDO I~~	~~0.0053~~	~~0.0380%~~	~~53505~~	~~2903~~	~~18.4~~	~~1~~	~~22~~	~~2.909~~	~~9.9645E-08~~
~~19~~	~~9.54~~	~~DIELDRIN~~	~~0.0151~~	~~0.1074%~~	~~94933~~	~~434~~	~~218.9~~	~~4~~	~~22~~	~~3.059~~	~~1.5873E-07~~
22	24.28	MIREX	~~11.9971~~	85.4793%	2382148	38936	61.2	1	22	0	5.0363E-06
~~23~~	~~29.66~~	~~METHOXYCHLOR~~	~~2.0126~~	~~14.3400%~~	~~8364752~~	~~106057~~	~~78.9~~	~~3~~	~~22~~	~~-2.768~~	~~2.4061E-07~~

TOTAL AMOUNT = 14.0351

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	2.09	MIREX
LINDANE	2.64	MIREX
HEP EPOX	5.97	MIREX
ENDRIN	11.12	MIREX
ENDOII	13.42	MIREX
DDT	16.03	MIREX

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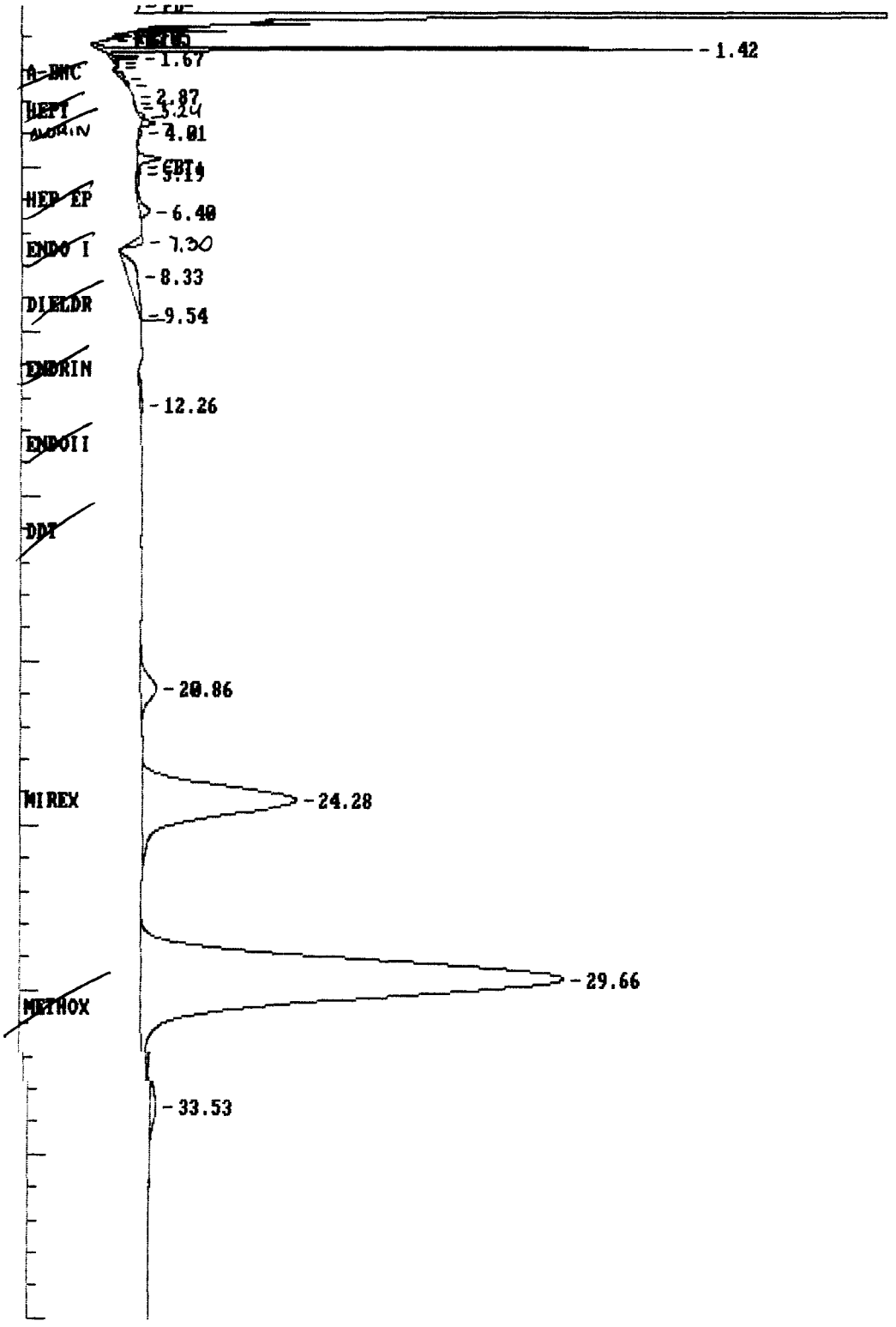
11/6/90

PRIMARY COLUMN

Data File = W:2MAG29.PTS Printed on 11-02-1990 at 10:21:06
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



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11/6/90

PRIMARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 10:39:15 Version 4.1 **********

* Sample Name: SF7452 MB Data File: W:2MAG29 *
* Date: 11-01-1990 07:08:02 Method: W:2PESTBR 10-31-1990 14:25:13 # 211*
* Interface: 0 Cycle#: 29 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	1.42	TCMX	0.0680	0.5477%	598889	149283	4.0	2	20	1.064	1.1361E-07
~~DL, RT 7~~	~~3.06~~	~~B-BHC~~	~~0.0048~~	~~0.0388%~~	~~6180~~	~~544~~	~~11.4~~	~~2~~	~~20~~	~~1.655~~	~~7.7980E-07~~
~~DL, RT 9~~	~~3.46~~	~~D-BHC~~	~~0.0054~~	~~0.0434%~~	~~33747~~	~~3036~~	~~11.1~~	~~2~~	~~20~~	~~-1.284~~	~~1.5974E-07~~
~~DL, RT 14~~	~~6.40~~	~~G-CHLORDANE~~	~~0.0048~~	~~0.0383%~~	~~59915~~	~~2646~~	~~22.6~~	~~1~~	~~20~~	~~-3.677~~	~~7.9454E-08~~
~~15~~	~~7.30~~	~~A-CHLORDANE~~	~~0.0038~~	~~0.0309%~~	~~53505~~	~~2903~~	~~18.4~~	~~1~~	~~20~~	~~.6398~~	~~7.1741E-08~~
~~16~~	~~8.33~~	~~DDE~~	~~0.0188~~	~~0.1513%~~	~~110909~~	~~2593~~	~~42.8~~	~~3~~	~~20~~	~~-4.089~~	~~1.6949E-07~~
~~DL, RT 19~~	~~20.86~~	~~END SULFATE~~	~~0.0230~~	~~0.1849%~~	~~205167~~	~~3920~~	~~52.3~~	~~1~~	~~20~~	~~-1.808~~	~~1.1199E-07~~
20	24.28	MIREX	~~11.2246~~	90.3481%	2382148	38936	61.2	1	20	0	4.7120E-06
~~21~~	~~29.66~~	~~END KETONE~~	~~1.0801~~	~~8.6942%~~	~~8364752~~	~~106057~~	~~78.9~~	~~3~~	~~20~~	~~3.192~~	~~1.2913E-07~~

TOTAL AMOUNT = 12.4237

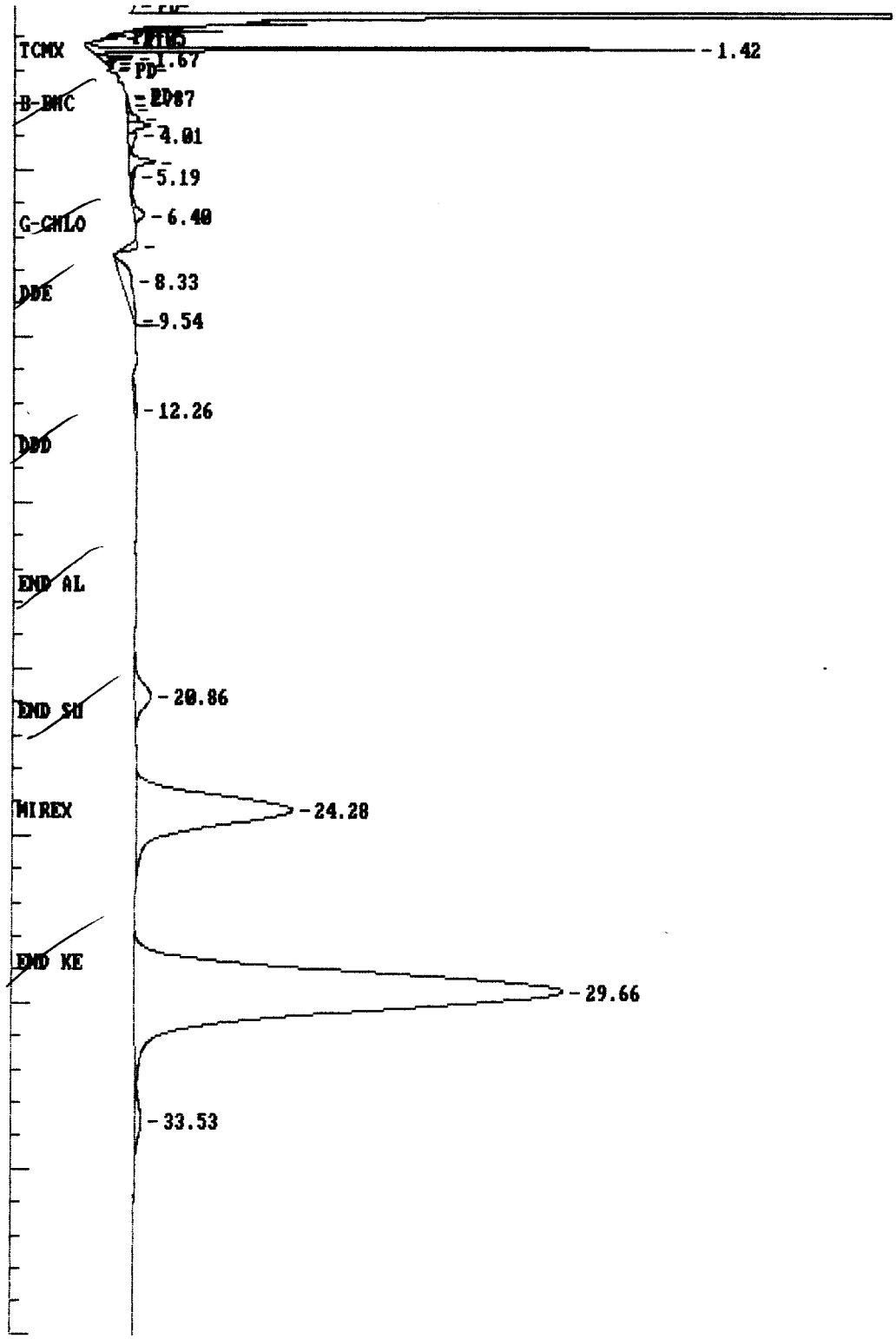
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
DDD	13.26	MIREX
END ALDEHYDE	17.43	MIREX

SB 11/6/90

PRIMARY COLUMN

Data File = W:2MAG29.PTS Printed on 11-02-1990 at 10:39:37
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

SECONDARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 11:33:44 Version 4.1 **********

* Sample Name: SF 7452 MB Data File: W:1MAG28 *

* Date: 11-01-1990 06:24:04 Method: W:1PESTA1 11-01-1990 10:58:37 # 156*

* Interface: 0 Cycle#: 28 Operator DKC Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *

* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 10.00

Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~4~~	~~1.87~~	~~A-BHC~~	~~0.0088~~	~~0.0750%~~	~~15069~~	~~2644~~	~~5.7 4~~	~~16~~	~~.1862~~	~~5.8445E-07~~
~~6~~	~~2.15~~	~~LINDANE~~	~~0.0058~~	~~0.0496%~~	~~4600~~	~~718~~	~~6.4 2~~	~~16~~	~~-1.632~~	~~1.2656E-06~~
~~10~~	~~5.09~~	~~HEP EPOX~~	~~0.0054~~	~~0.0462%~~	~~7836~~	~~527~~	~~14.9 1~~	~~16~~	~~-2.494~~	~~6.9195E-07~~
~~15~~	~~12.16~~	~~DDT~~	~~0.0479~~	~~0.4077%~~	~~291975~~	~~8001~~	~~36.5 1~~	~~16~~	~~-1.130~~	~~1.6395E-07~~
16	22.76	MIREX	~~11.6736~~	99.4215%	2963037	45328	65.4 2	16	0	3.9398E-06

TOTAL AMOUNT = 11.7416

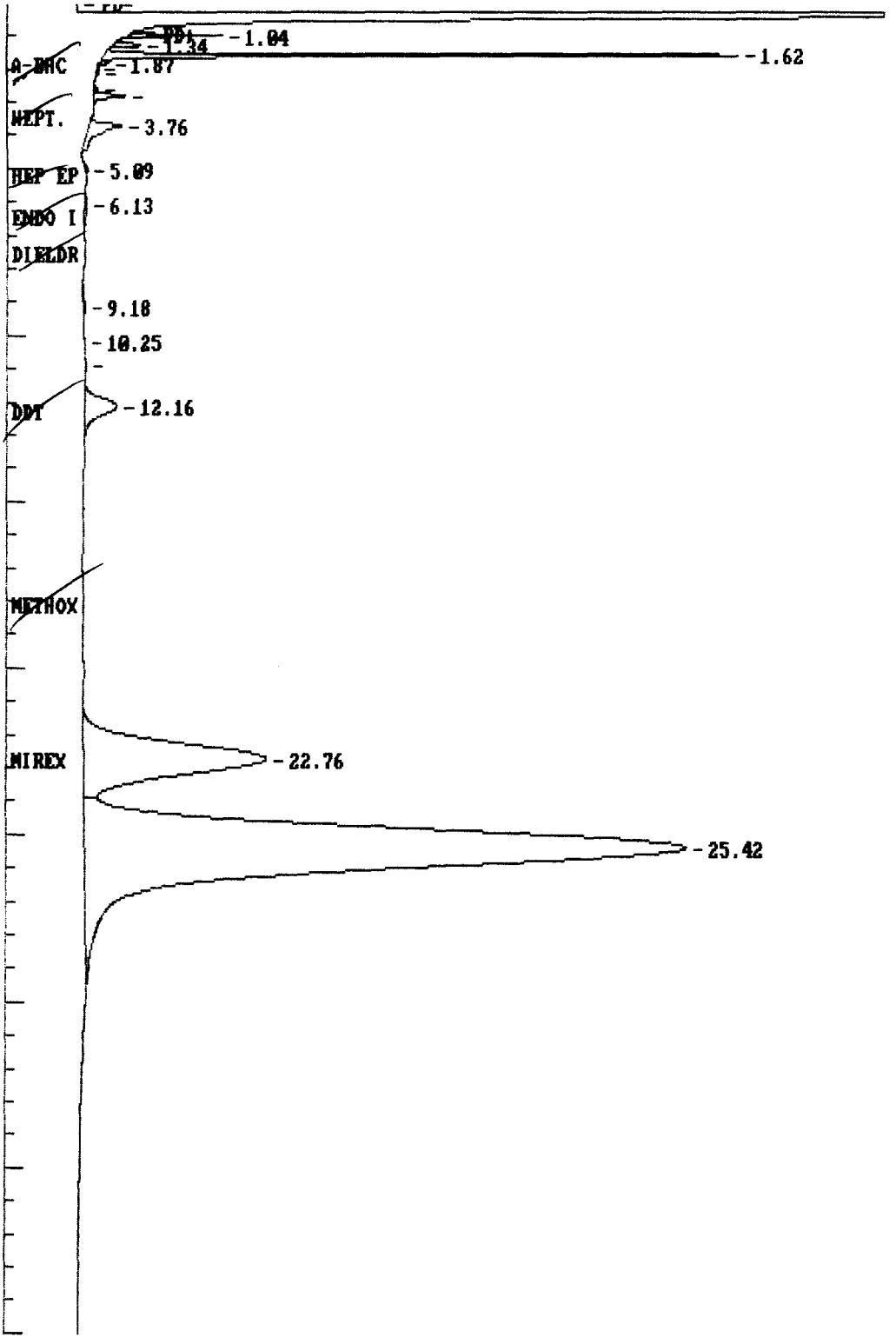
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
HEPT.	3.48	MIREX
ALDRIN	4.31	MIREX
ENDO I	6.50	MIREX
DIELDRIN	7.56	MIREX
EN + EN II	8.53	MIREX
METHOXYCHLOR	18.15	MIREX

SB 11/6/90

SECONDARY COLUMN

Data File = W:1MAG28.PTS Printed on 11-02-1990 at 11:34:03
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SB
11/6/90

SECONDARY COLUMN

```
*****   EXTERNAL STANDARD TABLE   *****
******************** 11-02-1990 11:46:29 Version 4.1 **********************
* Sample Name: SF 7452 MB                          Data File: W:1MAG28      *
* Date: 11-01-1990 06:24:04 Method: W:1PESTB1  11-01-1990 11:33:53  #  156*
* Interface: 0   Cycle#:  28   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD ~~QUANT~~CONF        Detector 1: ECD ~~CONF~~QUANT  *
* Misc. Information: ~~PERFORMANCE EVALUATION~~            LPT1:          *  *
*************************************************************************
Starting Delay:    0.00                          Ending retention time:    40.00
Area reject:         0                           One sample per   1.002 sec.
Amount injected:        1.00                     Dilution factor:       10.00
Sample Weight:          1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.62	TCMX	0.0646	0.5860%	753030	156930	4.8	3	16	-3.242	8.5812E-08
~~5~~	~~2.02~~	~~B-BHC~~	~~0.0013~~	~~0.0117%~~	~~1903~~	~~375~~	~~5.1~~	~~2~~	~~16~~	~~3.009~~	~~6.7573E-07~~
~~6~~	~~2.15~~	~~D-BHC~~	~~0.0147~~	~~0.1336%~~	~~4600~~	~~718~~	~~6.4~~	~~2~~	~~16~~	~~2.754~~	~~3.2028E-06~~
~~11~~	~~6.13~~	~~G-CHLOR~~	~~0.0061~~	~~0.0554%~~	~~18481~~	~~489~~	~~37.8~~	~~1~~	~~16~~	~~3.254~~	~~3.3035E-07~~
~~12~~	~~9.18~~	~~DDD+END ALD~~	~~0.0323~~	~~0.2930%~~	~~15236~~	~~387~~	~~39.4~~	~~1~~	~~16~~	~~2.136~~	~~2.1209E-06~~
~~14~~	~~10.89~~	~~END SULFATE~~	~~0.0285~~	~~0.2588%~~	~~3028~~	~~146~~	~~20.7~~	~~1~~	~~16~~	~~-.6376~~	~~9.4258E-06~~
16	22.76	MIREX	~~10.8802~~	98.6616%	2963037	45328	65.4	2	16	0	3.6720E-06

TOTAL AMOUNT = 11.0278

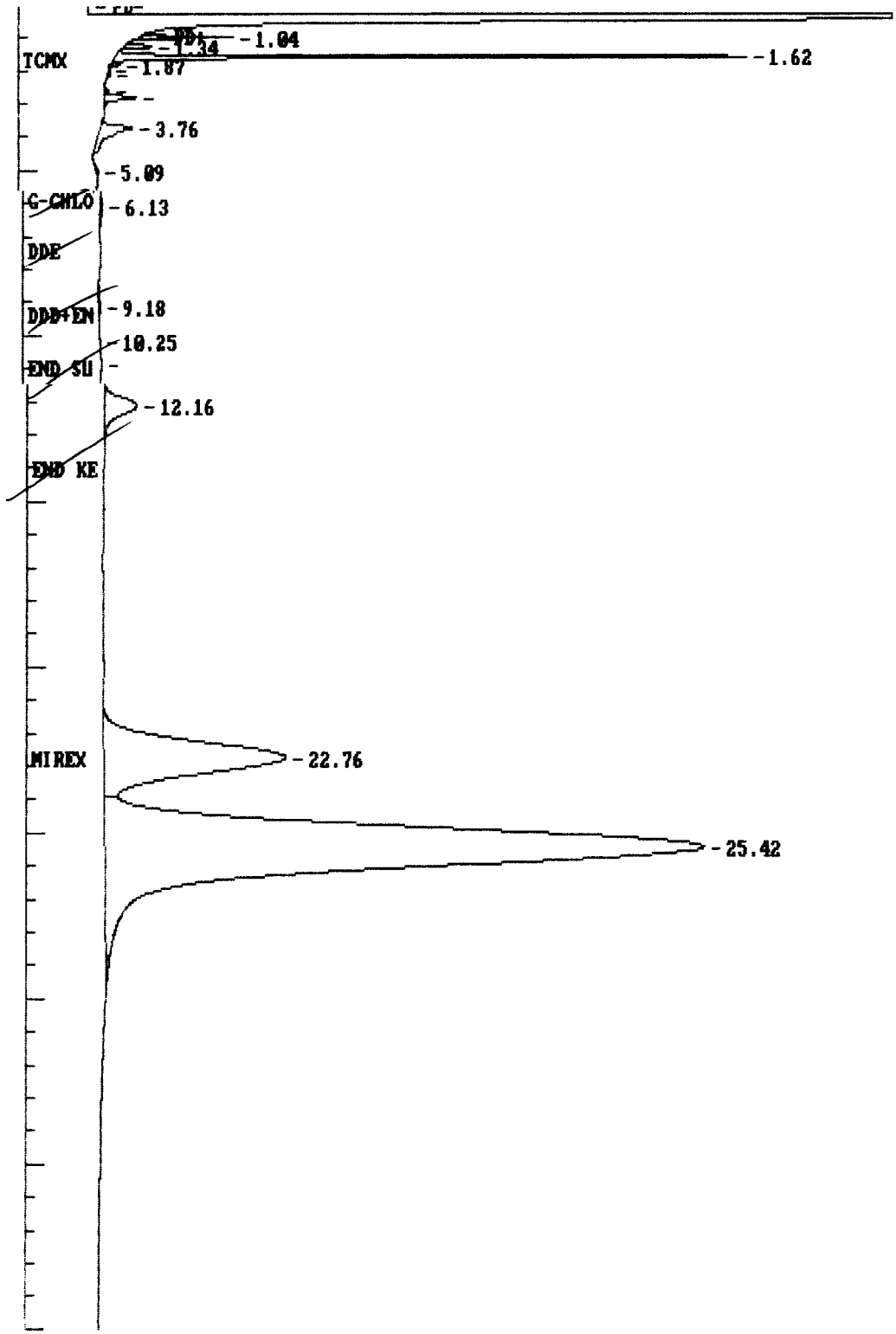
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-CHLOR	6.56	MIREX
DDE	7.46	MIREX
END KETONE	14.07	MIREX

11/6/90

SECONDARY COLUMN

Data File = W:1MAG28.PTS Printed on 11-02-1990 at 11:46:51
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SD 11/6/90

PRIMARY COLUMN

```
****** EXTERNAL STANDARD TABLE ******
******************** 11-02-1990 10:30:20 Version 4.1 ************************
* Sample Name: 91FF27S48 PEST MS  SF 7452          Data File: W:2MA639      *
* Date: 11-01-1990 15:55:17 Method: W:2PESTAR  10-31-1990 14:14:23  #  128*
* Interface: 0   Cycle#:  39   Operator DKC Channel#: 1    Vial#: N.A.      *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100              *
*****************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS         *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                     *
*            Detector 0: ECD ~~QUANT~~CONF        Detector 1: ECD ~~CONF~~QUANT *
* Misc. Information: P~~RIMARY COLUMN~~                  ~~PRIMARY COLUMN~~  *
*****************************************************************************
Starting Delay:    0.00                    Ending retention time:    40.00
Area reject:        0                      One sample per   1.002 sec.
Amount injected:        1.00               Dilution factor:       10.00
Sample Weight:          1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~6~~	~~2.12~~	~~A-BHC~~	~~0.0024~~	~~0.0165%~~	~~7642~~	~~1387~~	~~7.0~~	~~1~~	~~25~~	~~3.205~~	~~2.4650E-07~~
9	2.61	LINDANE	0.0542	0.3773%	418541	68939	6.1	1	25	.1257	1.2950E-07
10	3.26	HEPT	0.0517	0.3596%	416667	51064	8.2	1	25	.2534	1.2398E-07
12	3.94	ALDRIN	0.0879	0.6117%	624331	67104	9.3	1	25	.3424	1.4076E-07
17	7.41	ENDO I	0.0962	0.6696%	679137	36345	18.7	2	25	0	1.4164E-07
19	9.05	DIELDRIN	0.1306	0.9089%	918870	39568	23.2	2	25	0	1.4209E-07
20	10.96	ENDRIN	0.2397	1.6688%	1098928	43544	25.2	1	25	0	2.1815E-07
~~21~~	~~13.18~~	~~ENDOII~~	~~0.0137~~	~~0.0951%~~	~~10825~~	~~408~~	~~26.5~~	~~1~~	~~25~~	~~-.3688~~	~~1.2620E-06~~
22	15.80	DDT	0.2985	2.0778%	1900177	50792	37.4	1	25	0	1.5709E-07
25	23.93	MIREX	~~11.5013~~	80.0620%	2283698	38655	59.1	1	25	0	5.0363E-06
26	29.33	METHOXYCHLOR	1.8894	13.1526%	7852754	87578	89.7	2	25	-2.454	2.4061E-07

TOTAL AMOUNT = 14.3655

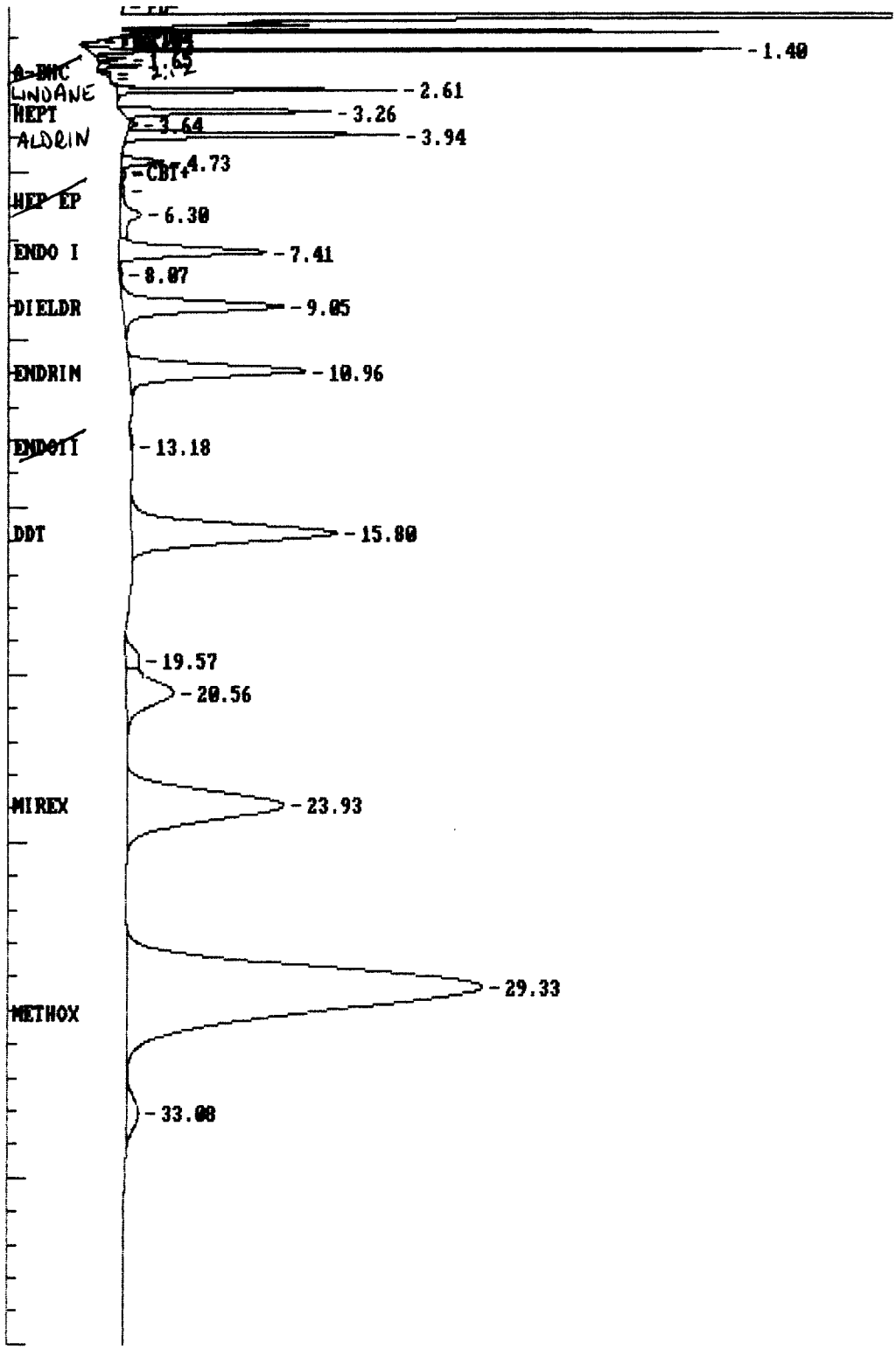
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
HEP EPOX	5.88	MIREX

SO 11/6/90

PRIMARY COLUMN

Data File = W:2MAG39.PTS Printed on 11-02-1990 at 10:30:42
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

PRIMARY COLUMN

```
****** EXTERNAL STANDARD TABLE ******
******************** 11-02-1990 10:48:48 Version 4.1 **********************
* Sample Name: 91FF27S48 PEST MS  SF 7452          Data File: W:2MAG39      *
* Date: 11-01-1990 15:55:17 Method: W:2PESTBR  10-31-1990 14:25:13  #  211*
* Interface: 0   Cycle#:  39   Operator DKC Channel#: 1    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD QUANTCONF        Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PRIMARY COLUMN~~                ~~PRIMARY COLUMN~~  *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    40.00
Area reject:        0                      One sample per    1.002 sec.
Amount injected:        1.00               Dilution factor:        10.00
Sample Weight:          1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.40	TCMX	0.0716	0.5877%	630383	161116	3.9	2	21	1.339	1.1361E-07
~~RT7~~	~~3.64~~	~~B-BHC~~	~~0.0066~~	~~0.0540%~~	~~42948~~	~~3856~~	~~11.1~~	~~4~~	~~21~~	~~5.485~~	~~1.5334E-07~~
~~RT12~~	~~6.30~~	~~G-CHLORDANE~~	~~0.0180~~	~~0.1473%~~	~~161701~~	~~5073~~	~~31.9~~	~~2~~	~~21~~	~~3.797~~	~~1.1102E-07~~
~~RT13~~	~~7.41~~	~~A-CHLORDANE~~	~~0.0796~~	~~0.6532%~~	~~679137~~	~~36345~~	~~18.7~~	~~2~~	~~21~~	~~3.750~~	~~1.1720E-07~~
~~RT15~~	~~9.05~~	~~DDE~~	~~0.1422~~	~~1.1669%~~	~~918870~~	~~39568~~	~~23.2~~	~~2~~	~~21~~	~~5.702~~	~~1.5475E-07~~
~~RT17~~	~~13.18~~	~~DDD~~	~~0.0043~~	~~0.0352%~~	~~10825~~	~~408~~	~~26.5~~	~~1~~	~~21~~	~~.7935~~	~~3.9674E-07~~
~~RT20~~	~~20.56~~	~~END SULFATE~~	~~0.0885~~	~~0.7260%~~	~~625756~~	~~11592~~	~~54.0~~	~~2~~	~~21~~	~~-1.865~~	~~1.4137E-07~~
21	23.93	MIREX	~~10.7607~~	88.3076%	2283698	38655	59.1	1	21	0	4.7120E-06
~~RT22~~	~~29.33~~	~~END KETONE~~	~~1.0141~~	~~8.3220%~~	~~7852754~~	~~87578~~	~~89.7~~	~~2~~	~~21~~	~~3.525~~	~~1.2914E-07~~

TOTAL AMOUNT = 12.1855

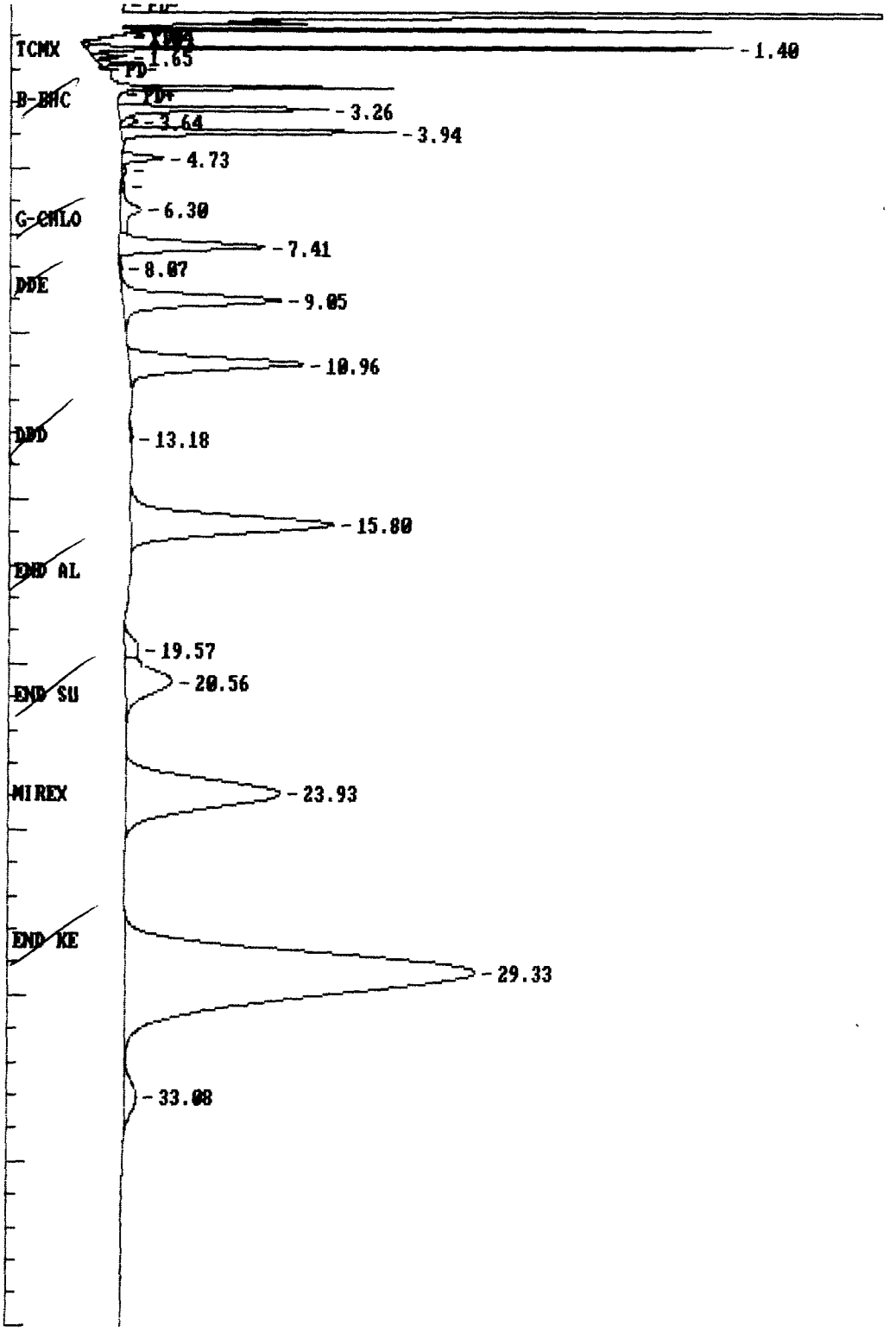
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
B-BHC	2.96	MIREX
END ALDEHYDE	17.18	MIREX

11/6/90

PRIMARY COLUMN

Data File = W:2MAG39.PTS Printed on 11-02-1990 at 10:49:10
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



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11/6/90

SECONDARY COLUMN

****** EXTERNAL STANDARD TABLE ******

********** 11-02-1990 11:23:23 Version 4.1 **********

* Sample Name: 91FF27S48 PEST MS SF 7452 Data File: W:1MAG38 *
* Date: 11-01-1990 13:59:10 Method: W:1PESTA 10-30-1990 14:55:36 # 155 *
* Interface: 0 Cycle#: 38 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	2.09	LINDANE	0.0553	0.4478%	513469	86133	6.0	2	19	.2453	1.0765E-07
6	3.32	HEPT.	0.0546	0.4422%	556155	53690	10.4	2	19	.3611	9.8134E-08
8	4.11	ALDRIN	0.0901	0.7301%	724086	63288	11.4	2	19	.2855	1.2445E-07
12	6.18	ENDO I	0.1247	1.0104%	982298	54737	17.9	2	19	0	1.2695E-07
13	7.20	DIELDRIN	0.1194	0.9676%	927036	44568	20.8	2	19	.1634	1.2882E-07
14	8.03	EN + ~~EN II~~	0.2229	1.8058%	1679977	59972	28.0	2	19	-.9246	1.3267E-07
16	11.69	DDT	0.4126	3.3434%	2973410	79509	37.4	3	19	-.0180	1.3878E-07
18	17.27	METHOXYCHLOR	0.3542	2.8699%	1801616	34901	51.6	1	19	0	1.9661E-07
19	21.64	MIREX	~~10.9084~~	88.3828%	2768811	44046	62.9	2	19	0	3.9398E-06

TOTAL AMOUNT = 12.3423

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	1.78	MIREX
HEP EPOX	4.97	MIREX

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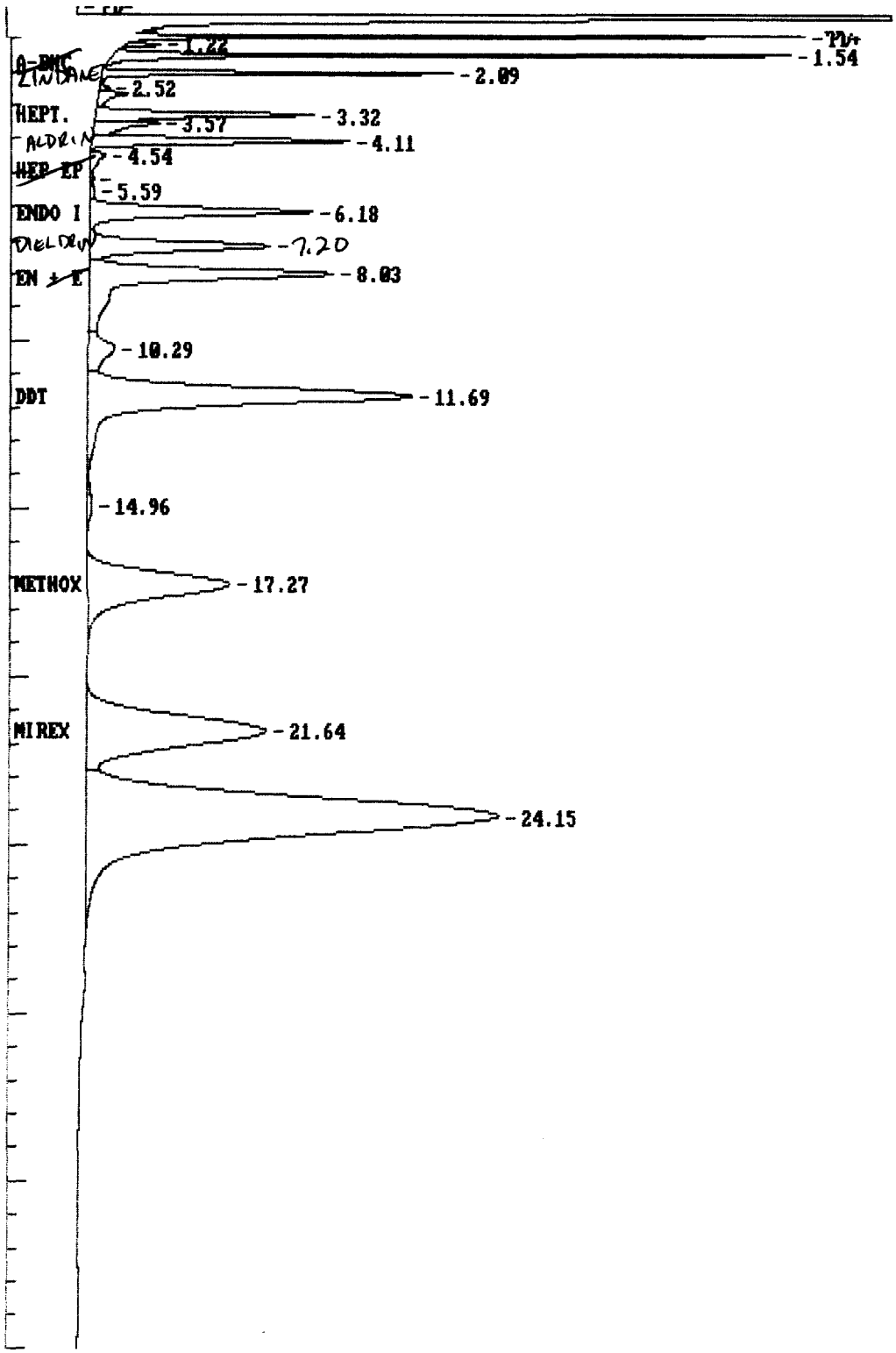
SECONDARY COLUMN

Data File = W:1MAG38.PTS Printed on 11-02-1990 at 11:23:45
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

S--ONDARY COLUMN

****** EXTERNAL STANDARD TABLE ******

```
******************** 11-04-1990 16:09:02 Version 4.1 ***********************
* Sample Name: 91FF27S48 PEST MS SF 7452         Data File: W:1MAG38       *
* Date: 11-01-1990 13:59:10 Method: W:1PESTB 11-04-1990 13:44:09  #  160   *
* Interface: 0   Cycle#:  38   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
****************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*           Detector 0: ECD QUANTCONF        Detector 1: ECD CONFQUANT     *
* Misc. Information: PERFORMANCE EVALUATION               LPT1:        *   *
****************************************************************************
Starting Delay:    0.00                    Ending retention time:   40.00
Area reject:        0                      One sample per   1.002 sec.
Amount injected:        1.00               Dilution factor:       10.00
Sample Weight:          1.000000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	1.54	TCMX	0.0751	0.7128%	875606	166144	5.3	1	19	-2.632	8.5812E-08
~~12~~	~~6.18~~	~~G-CHLOR~~	~~0.1038~~	~~0.9844%~~	~~982298~~	~~54737~~	~~17.9~~	~~2~~	~~19~~	~~-3.546~~	~~1.0564E-07~~
~~13~~	~~7.20~~	~~DDE~~	~~0.1302~~	~~1.2348%~~	~~927036~~	~~44568~~	~~20.8~~	~~2~~	~~19~~	~~-3.997~~	~~1.4041E-07~~
~~15~~	~~10.29~~	~~END SULFATE~~	~~0.0653~~	~~0.6197%~~	~~289467~~	~~6532~~	~~44.3~~	~~2~~	~~19~~	~~-1.797~~	~~2.2567E-07~~
19	21.64	MIREX	~~10.1670~~	96.4482%	2768811	44046	62.9	2	19	0	3.6720E-06

TOTAL AMOUNT = 10.5414

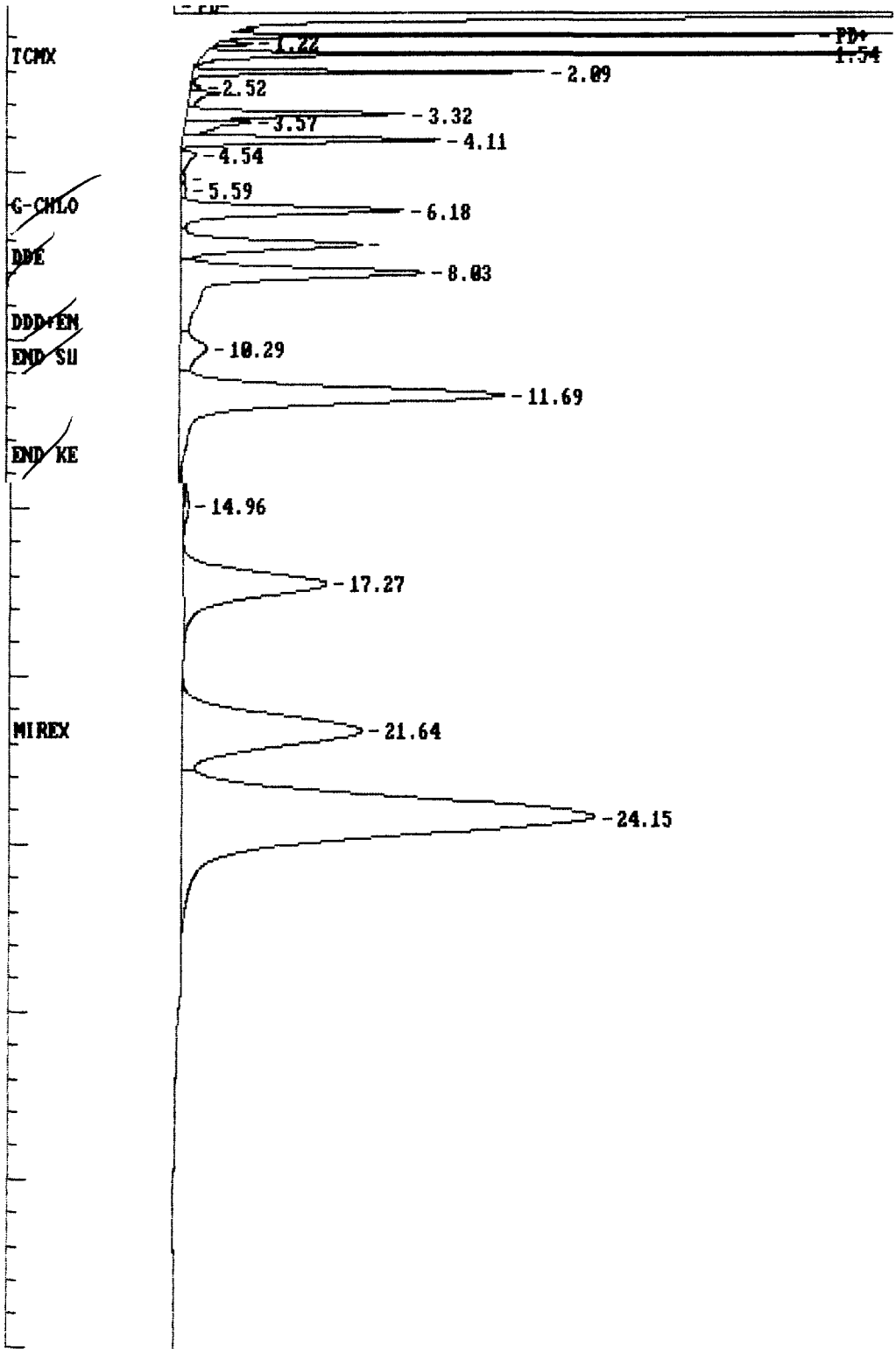
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
B-BHC	1.97	MIREX
D-BHC	2.23	MIREX
A-CHLOR	6.60	MIREX
DDD+END ALD	9.44	MIREX
END KETONE	13.43	MIREX

SB 11/6/90

SECONDARY COLUMN

Data File = W:1MAG38.PTS Printed on 11-04-1990 at 16:09:46
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

PRIMARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 10:31:47 Version 4.1 **********

* Sample Name: 91FF27S48 PEST MSD SF 7452 Data File: W:2MAG40 *

* Date: 11-01-1990 15:57:26 Method: W:2PESTAR 10-31-1990 14:14:23 # 128*

* Interface: 0 Cycle#: 40 Operator DKC Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *

* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 10.00

Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
8	2.61	LINDANE	0.0539	0.3751%	415804	68016	6.1	1	25	.1957	1.2953E-07
10	3.24	HEPT	0.0488	0.3396%	393197	49078	8.0	1	25	-.1909	1.2399E-07
12	3.94	ALDRIN	0.0845	0.5888%	599650	65221	9.2	1	25	.4125	1.4098E-07
17	7.41	ENDO I	0.0958	0.6673%	676469	34593	19.6	2	25	.1612	1.4163E-07
19	9.03	DIELDRIN	0.1293	0.9003%	909587	39033	23.3	2	25	0	1.4211E-07
20	10.94	ENDRIN	0.2609	1.8169%	1201749	45160	26.6	3	25	0	2.1707E-07
~~22~~	~~13.11~~	~~ENDOII~~	~~0.0138~~	~~0.0960%~~	~~11739~~	~~465~~	~~25.2~~	~~1~~	~~25~~	~~-.8047~~	~~1.1737E-06~~
23	15.78	DDT	0.2944	2.0504%	1872194	50547	37.0	1	25	0	1.5724E-07
25	23.91	MIREX	~~11.4319~~	79.6216%	2269922	38512	58.9	1	25	0	5.0363E-06
26	29.31	METHOXYCHLOR	1.9446	13.5441%	8082155	89974	89.8	2	25	-2.441	2.4061E-07

TOTAL AMOUNT = 14.3578

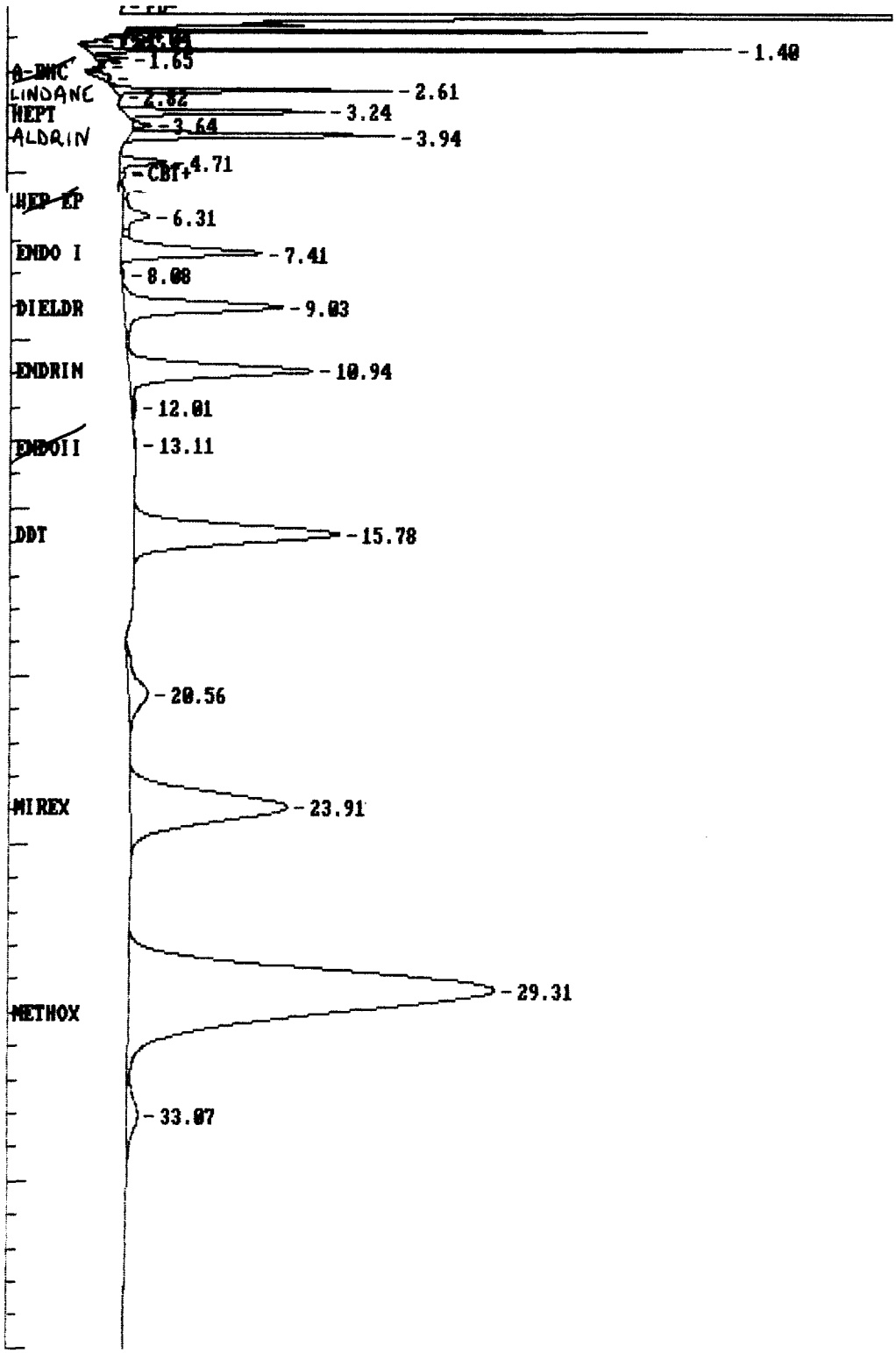
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	2.05	MIREX
HEP EPOX	5.88	MIREX

SO 11/6/90

PRIMARY COLUMN

Data File = W:2MAG40.PTS Printed on 11-02-1990 at 10:32:09
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8
11/6/90

PRIMARY COLUMN

****** EXTERNAL STANDARD TABLE ******

********** 11-02-1990 10:50:13 Version 4.1 **********

* Sample Name: 91FF27S48 PEST MSD SF 7452 Data File: W:2MAG40 *
* Date: 11-01-1990 15:57:26 Method: W:2PESTBR 10-31-1990 14:25:13 # 211*
* Interface: 0 Cycle#: 40 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.40	TCMX	0.0710	0.5937%	625086	159370	3.9	2	23	1.410	1.1361E-07
~~7~~	~~2.82~~	~~B-BHC~~	~~0.0058~~	~~0.0482%~~	~~2057~~	~~355~~	~~5.8~~	~~1~~	~~23~~	~~4.678~~	~~2.8018E-06~~
~~9~~	~~3.64~~	~~D-BHC~~	~~0.0126~~	~~0.1057%~~	~~89632~~	~~7889~~	~~11.4~~	~~4~~	~~23~~	~~5.558~~	~~1.4113E-07~~
~~14~~	~~6.31~~	~~G-CHLORDANE~~	~~0.0197~~	~~0.1651%~~	~~175548~~	~~6984~~	~~25.1~~	~~2~~	~~23~~	~~3.474~~	~~1.1249E-07~~
~~15~~	~~7.41~~	~~A-CHLORDANE~~	~~0.0800~~	~~0.6685%~~	~~682157~~	~~34678~~	~~19.7~~	~~2~~	~~23~~	~~3.822~~	~~1.1722E-07~~
~~16~~	~~9.08~~	~~DDE~~	~~0.0035~~	~~0.0290%~~	~~10589~~	~~572~~	~~18.4~~	~~2~~	~~23~~	~~5.543~~	~~3.2963E-07~~
~~20~~	~~13.11~~	~~DDD~~	~~0.0044~~	~~0.0372%~~	~~11739~~	~~465~~	~~25.2~~	~~1~~	~~23~~	~~.3525~~	~~3.7899E-07~~
~~22~~	~~20.56~~	~~END SULFATE~~	~~0.0371~~	~~0.3099%~~	~~295687~~	~~4799~~	~~61.6~~	~~1~~	~~23~~	~~1.736~~	~~1.2537E-07~~
23	23.91	MIREX	~~10.6958~~	89.4143%	2269922	38512	58.9	1	23	0	4.7120E-06
~~24~~	~~29.31~~	~~END KETONE~~	~~1.0437~~	~~8.7249%~~	~~8082155~~	~~89974~~	~~89.8~~	~~2~~	~~23~~	~~3.538~~	~~1.2913E-07~~

TOTAL AMOUNT = 11.9621

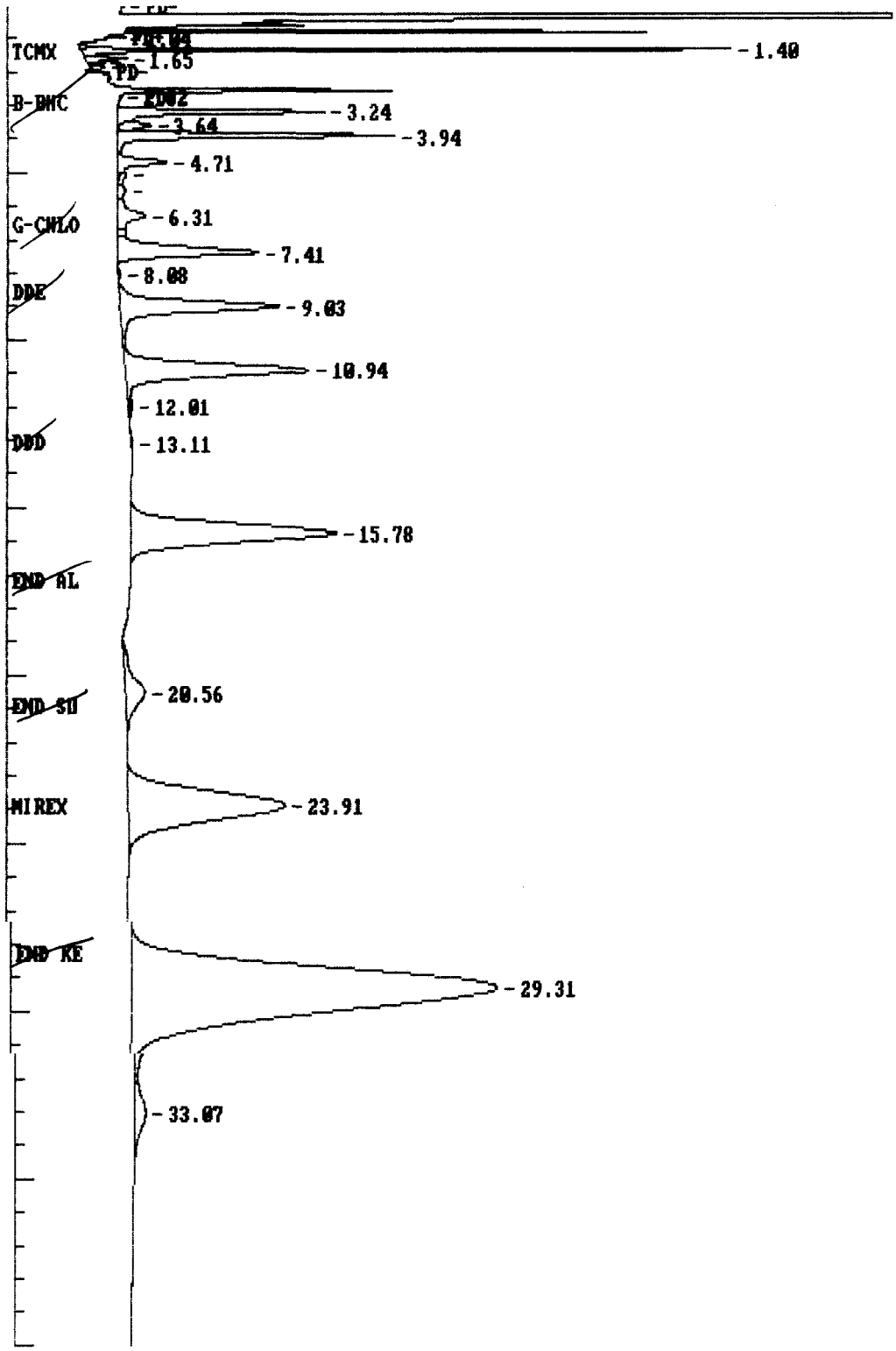
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
END ALDEHYDE	17.16	MIREX

11/6/90

PRIMARY COLUMN

Data File = W:2MAG40.PTS Printed on 11-02-1990 at 10:50:35
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SB 11/6/90

SECONDARY COLUMN

```
******   EXTERNAL  STANDARD  TABLE   ******
******************** 11-02-1990 11:24:44 Version 4.1 **********************
* Sample Name: 91FF27S48 PEST MSD SF 7452        Data File: W:1MAG39        *
* Date: 11-01-1990 15:55:18 Method: W:1PESTA  10-30-1990 14:55:36  #  155 *
* Interface: 0   Cycle#:  39   Operator DKC Channel#: 0   Vial#: N.A.      *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
****************************************************************************
* Instrument Type: HP 5890A #2        Column Type: PACKED COLUMNS         *
*               Solvent Description: ULTRA HIGH PURITY NITROGEN           *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*             Detector 0: ECD QUANT CONF       Detector 1: ECD CONF QUANT  *
* Misc. Information: PERFORMANCE EVALUATION            LPT1:          *   *
****************************************************************************
Starting Delay:   0.00                    Ending retention time:   40.00
Area reject:        0                     One sample per   1.002 sec.
Amount injected:        1.00              Dilution factor:       10.00
Sample Weight:          1.000000
```

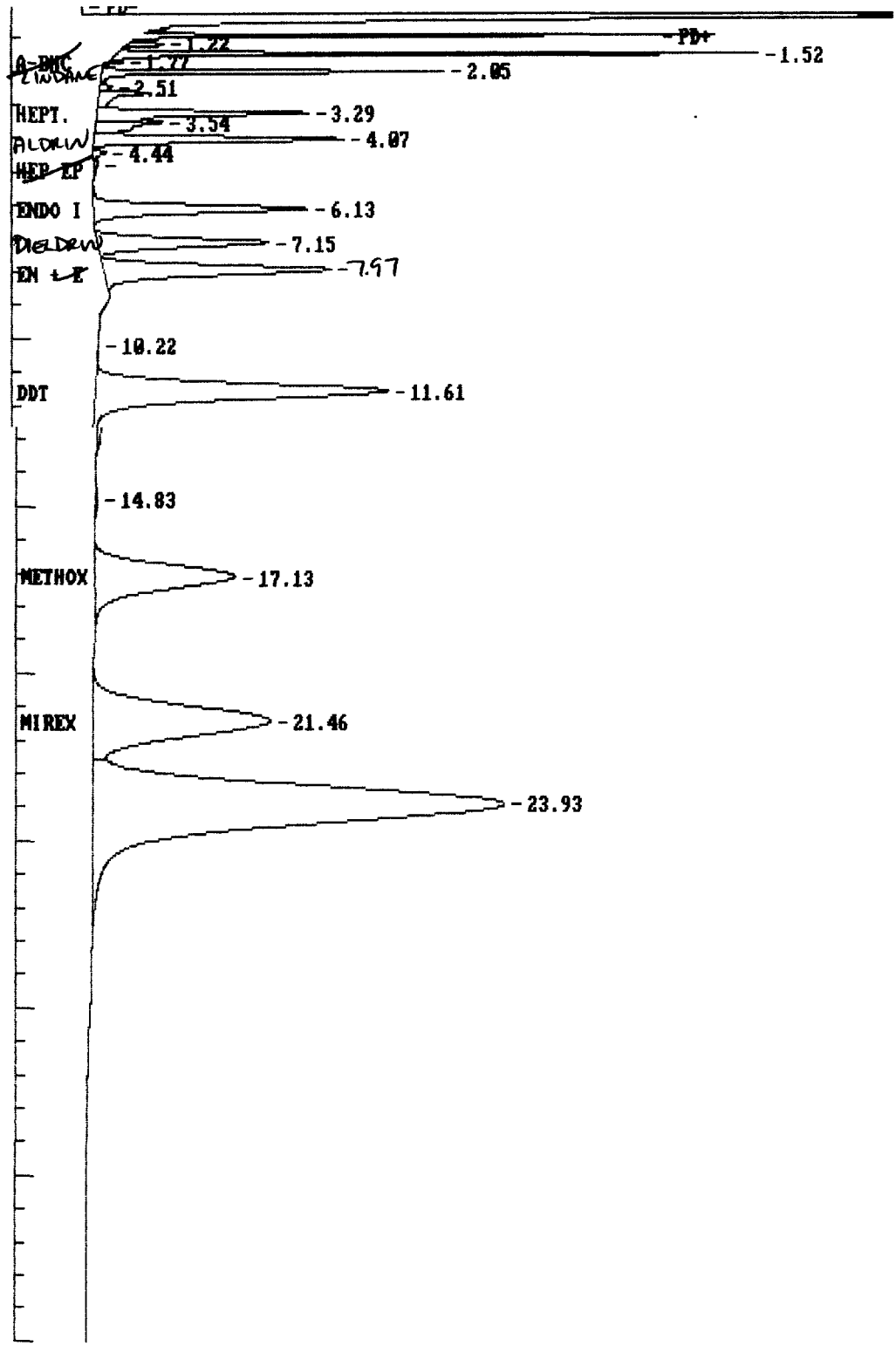
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~1.77~~	~~A-BHC~~	~~0.0098~~	~~0.0810%~~	~~26097~~	~~4551~~	~~5.7~~	~~4~~	~~19~~	~~.5746~~	~~3.7565E-07~~
4	2.05	LINDANE	0.0545	0.4505%	505719	84396	6.0	2	19	-.5141	1.0781E-07
7	3.29	HEPT.	0.0533	0.4403%	542861	52110	10.4	2	19	.2029	9.8172E-08
9	4.07	ALDRIN	0.0869	0.7182%	695558	61365	11.3	2	19	.3216	1.2496E-07
~~11~~	~~4.78~~	~~HEP EPOX~~	~~0.0062~~	~~0.0513%~~	~~15044~~	~~1076~~	~~14.0~~	~~2~~	~~19~~	~~3.018~~	~~4.1312E-07~~
12	6.13	ENDO I	0.1179	0.9743%	925669	52896	17.5	1	19	0	1.2739E-07
13	7.15	DIELDRIN	0.1062	0.8775%	814637	42240	19.3	2	19	.3177	1.3037E-07
14	7.97	EN + ~~EN II~~	0.1682	1.3896%	1201026	55911	21.5	2	19	-.9074	1.4004E-07
16	11.61	DDT	0.3433	2.8363%	2463487	72165	34.1	2	19	.1175	1.3935E-07
18	17.13	METHOXYCHLOR	0.3414	2.8210%	1734853	34650	50.1	1	19	.1411	1.9680E-07
19	21.46	MIREX	~~10.8153~~	89.3600%	2745170	43757	62.7	2	19	0	3.9398E-06

TOTAL AMOUNT = 12.1031

DG 11/6/90

SECONDARY COLUMN

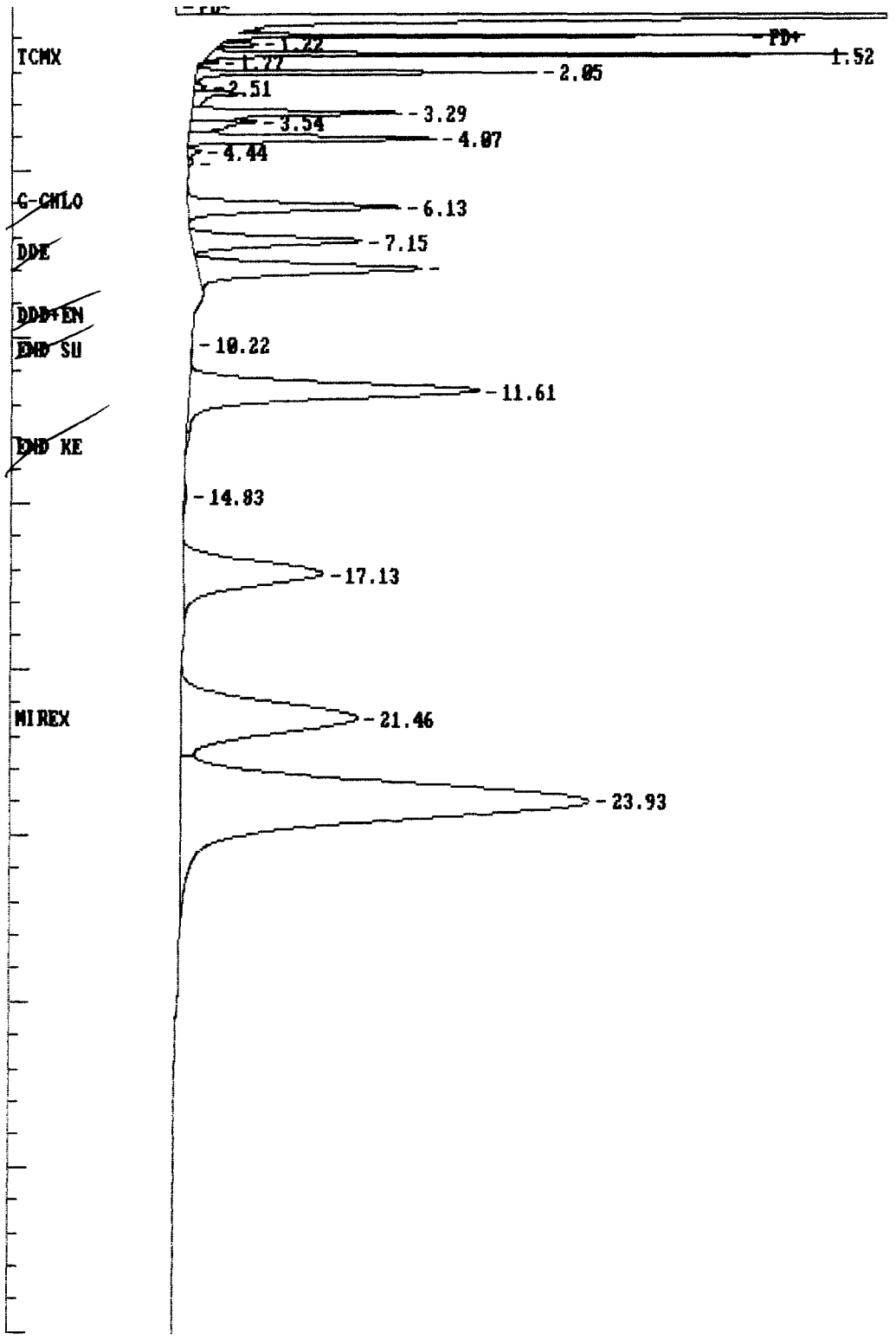
Data File = W:1MAG39.PTS Printed on 11-02-1990 at 11:25:07
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8
11/6/90

SECONDARY COLUMN

Data File = W:1MAG39.PTS Printed on 11-04-1990 at 16:12:21
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-02-1990 10:56:50 Version 4.1 **********

* Sample Name: 91FF27S48 PCB MS SF 7452 Data File: W:2MAG41 *
* Date: 11-01-1990 16:19:18 Method: W:2_1242R 11-01-1990 09:16:02 # 210*
* Interface: 0 Cycle#: 41 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF QUANT~~ *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.040000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.40	TCMX	0.0675	0.4242%	592579	165341	3.6	1	28	28	3.561	1.1385E-07
6	1.90	1242-1	2.9117	18.3062%	452771	76826	5.9	1	28	28	0	6.4309E-06
8	2.44	1242-2	2.9396	18.4816%	848149	115649	7.3	2	28	28	.1322	3.4659E-06
11	3.17	1242-3	3.0140	18.9493%	1534512	183713	8.4	2	28	28	-.1184	1.9642E-06
12	3.49	1242-4	3.2030	20.1374%	742389	72728	10.2	2	28	28	.2052	4.3144E-06
18	6.00	1242-5	3.7699	23.7014%	1362908	57310	23.8	2	28	28	.2117	2.7660E-06
28	23.91	MIREX	1.0000	0.0000%	2301994	38812	59.3	1	28	28	0	4.3441E-07

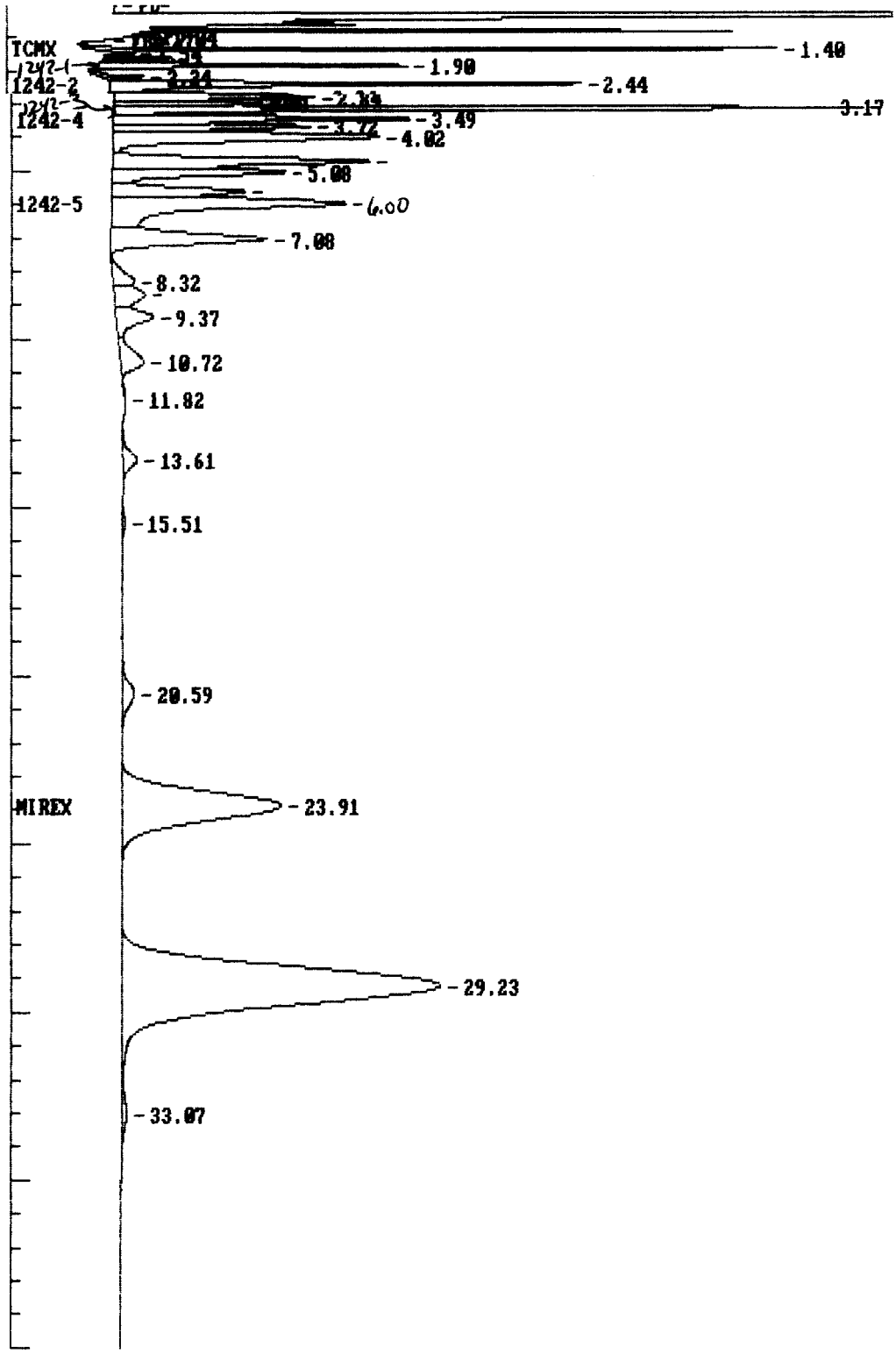
TOTAL AMOUNT = 15.9057

Average $\underset{n=5}{=}$ 3.1676

8 11/16/90

PRIMARY COLUMN

Data File = W:2MAG41.PTS Printed on 11-02-1990 at 10:57:07
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8
11/6/90

SECONDARY COLUMN

***** INTERNAL STANDARD TABLE *****

********** 11-03-1990 12:55:14 Version 4.1 **********

* Sample Name: 91FF27S48 PCB MS SF 7452 Data File: W:1MAG40 *
* Date: 11-01-1990 15:57:27 Method: W:1_1242A 11-03-1990 12:54:34 # 178*
* Interface: 0 Cycle#: 40 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.040000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	1.52	TCMX	0.0921	0.6305%	936833	174221	5.4	2	20	20	-6.167	9.8309E-08
3	1.77	1242-1	2.6153	17.9036%	560623	91360	6.1	2	20	20	0	4.6650E-06
5	2.22	1242-2	2.8768	19.6938%	1013506	130231	7.8	2	20	20	0	2.8385E-06
6	2.45	1242-3	2.8288	19.3655%	666989	83577	8.0	2	20	20	.2192	4.2412E-06
7	2.86	1242-4	3.1346	21.4589%	2244488	210031	10.7	2	20	20	-.1311	1.3966E-06
12	5.01	1242-5	3.0600	20.9477%	1654213	78080	21.2	2	20	20	.0192	1.8498E-06
20	21.33	MIREX	1.0000	0.0000%	2729125	43567	62.6	2	20	20	0	3.6642E-07

TOTAL AMOUNT = 14.6077

Average = 2.9031 n=5

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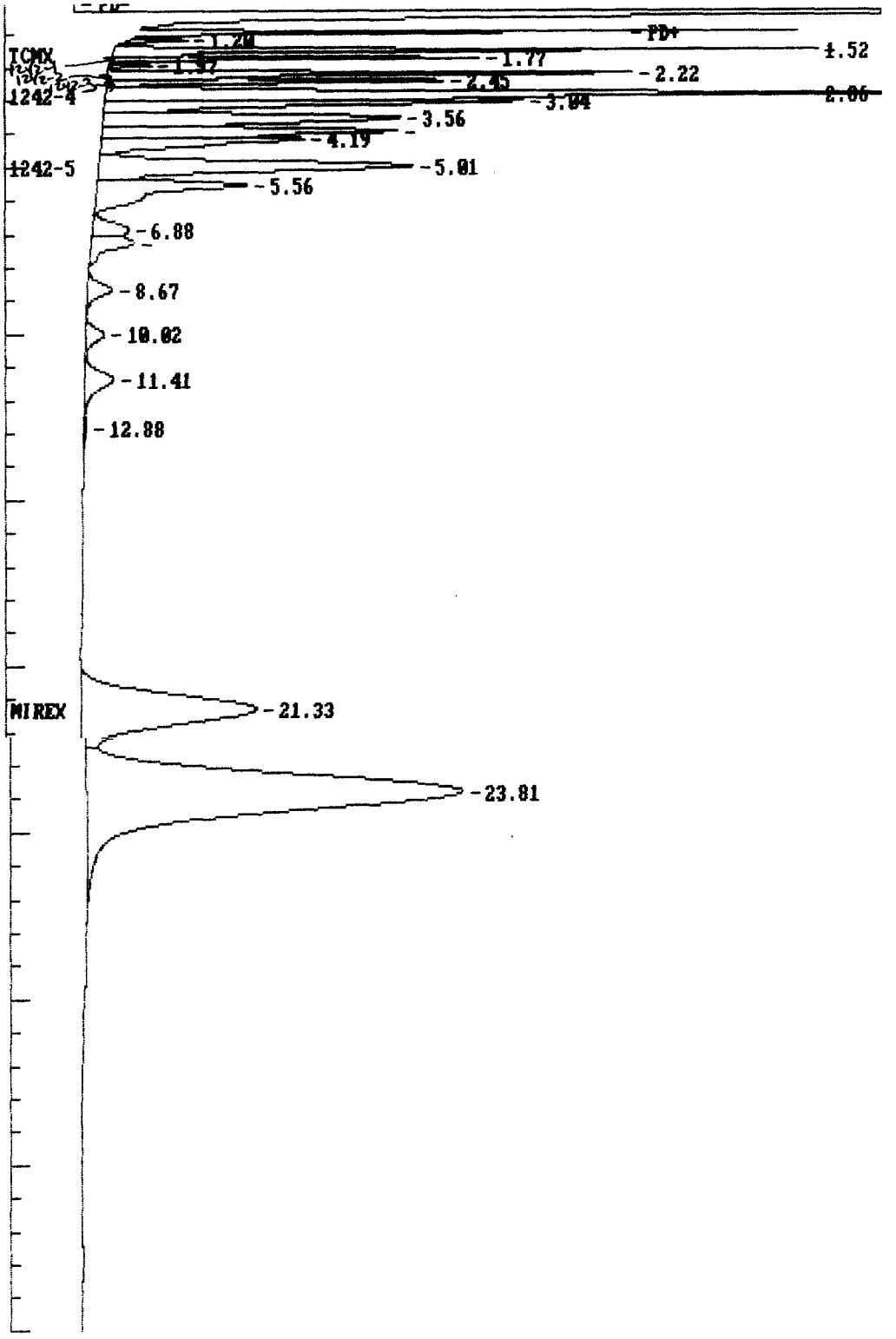
Data File = W:1MAG40.PTS Printed on 11-03-1990 at 12:55:32
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SD
11/6/90

PRIMARY COLUMN

***** INTERNAL STANDARD TABLE *****

```
******************** 11-02-1990 10:58:10 Version 4.1 *********************
* Sample Name: 91FF27S48 PCB MSD SF 7452          Data File: W:2MAG42       *
* Date: 11-01-1990 16:40:55 Method: W:2_1242R  11-01-1990 09:16:02  #  210*
* Interface: 0  Cycle#:  42  Operator DKC Channel#: 1    Vial#: N.A.       *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
****************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD QUANT CONF        Detector 1: ECD CONF QUANT  *
* Misc. Information: PRIMARY COLUMN                   PERFORMANCE EVA      *
****************************************************************************
Starting Delay:   0.00                   Ending retention time:   40.00
Area reject:        0                    One sample per   1.002 sec.
Amount injected:        1.00             Dilution factor:        10.00
Internal Standard Amount:  1
Sample Weight:          0.960000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	1.40	TCMX	0.0781	0.4643%	641376	179122	3.6	1	28	28	3.633	1.2177E-07
6	1.90	1242-1	3.1713	18.8524%	460871	78878	5.8	1	28	28	.1208	6.8810E-06
8	2.44	1242-2	3.2607	19.3842%	877418	120845	7.3	2	28	28	.2022	3.7163E-06
11	3.17	1242-3	3.3226	19.7521%	1578633	190740	8.3	2	28	28	0	2.1047E-06
12	3.49	1242-4	3.2357	19.2356%	708015	71057	10.0	2	28	28	.2753	4.5701E-06
18	6.00	1242-5	3.7531	22.3115%	1276898	57314	22.3	2	28	28	.2817	2.9393E-06
28	23.90	MIREX	1.0000	0.0000%	2331712	39288	59.3	1	28	28	0	4.2887E-07

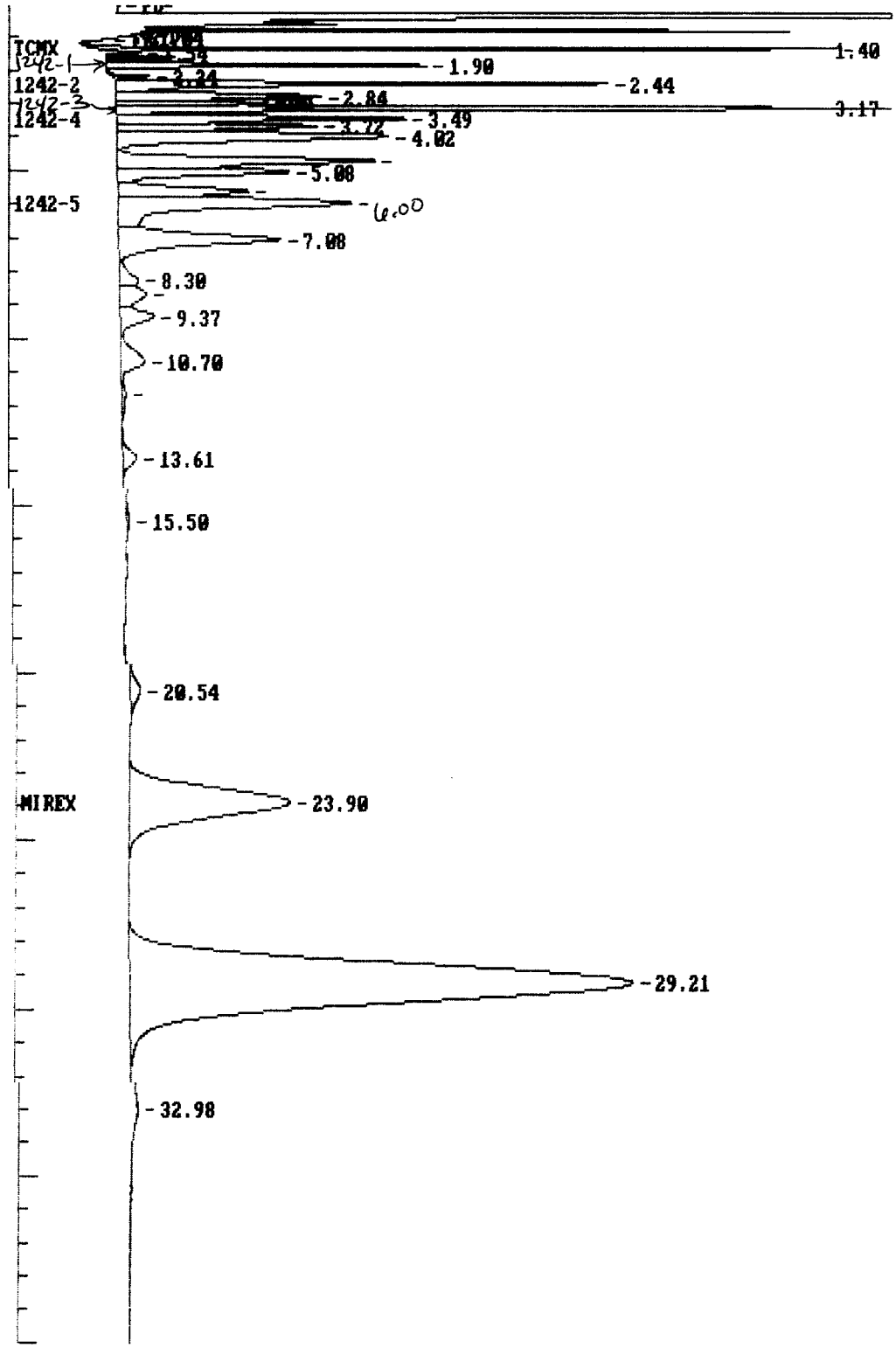
TOTAL AMOUNT = 16.8215

Average $_{n=5}$ = 3.3487

SD 11/6/90

PRIMARY COLUMN

Data File = W:2MAG42.PTS Printed on 11-02-1990 at 10:58:27
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8 11/6/90

SECONDARY COLUMN

```
*****   INTERNAL  STANDARD  TABLE   *****
******************** 11-03-1990 12:56:31 Version 4.1 **********************
* Sample Name: 91FF27S48 PCB MSD SF 7452          Data File: W:1MAG41       *
* Date: 11-01-1990 16:19:20 Method: W:1_1242A  11-03-1990 12:54:34  #  178*
* Interface: 0   Cycle#:  41   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*           Detector 0: ECD ~~QUANT~~CONF        Detector 1: ECD ~~CONF~~QUANT   *
* Misc. Information: ~~PERFORMANCE EVALUATION~~          LPT1:          *   *
*************************************************************************
Starting Delay:    0.00                      Ending retention time:    40.00
Area reject:         0                       One sample per    1.002 sec.
Amount injected:        1.00                 Dilution factor:        10.00
Internal Standard Amount:  1
Sample Weight:          0.960000
```

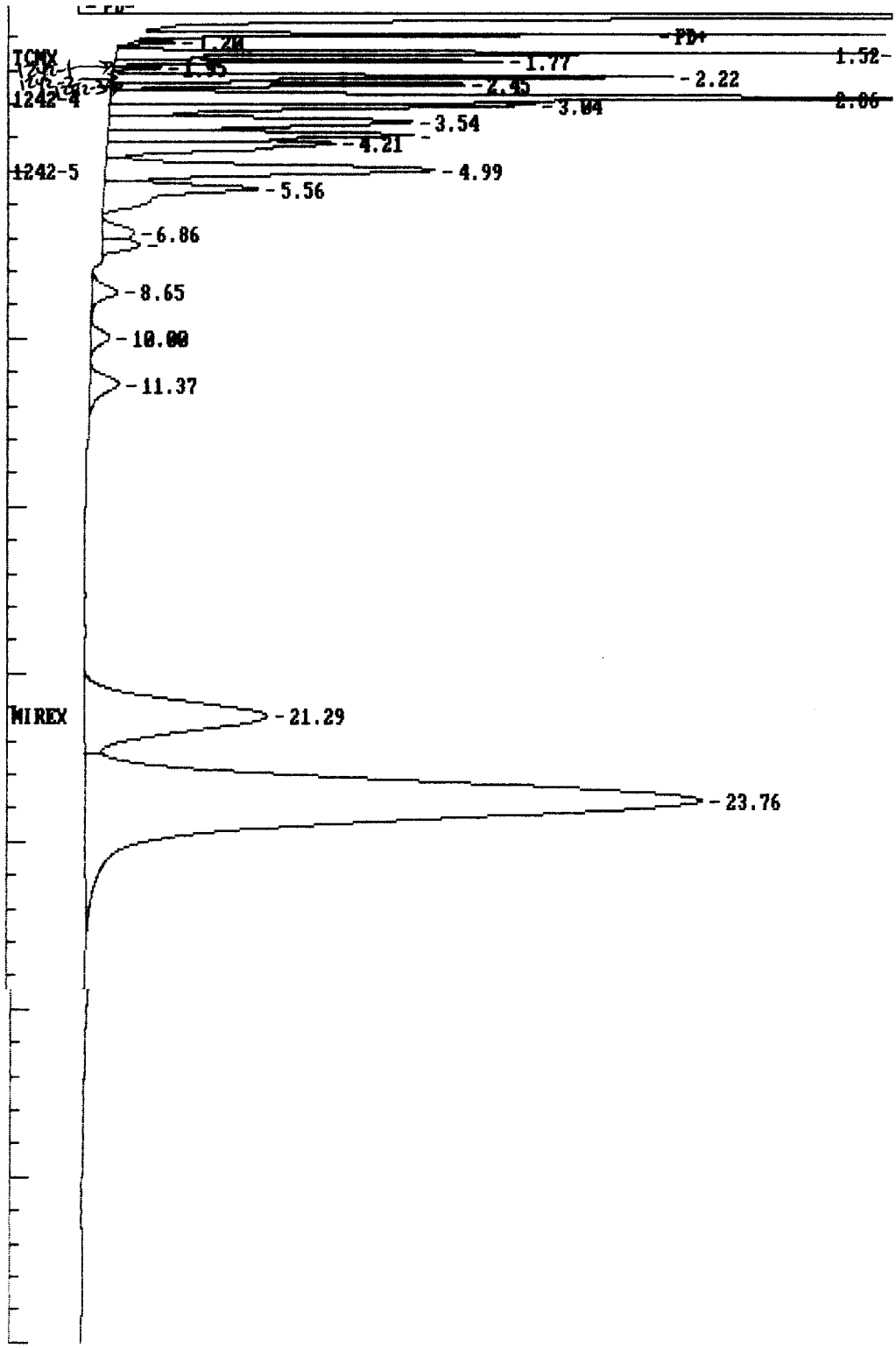
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	1.52	TCMX	0.1047	0.6511%	1017128	186065	5.5	2	19	19	-6.020	1.0293E-07
3	1.77	1242-1	2.9589	18.4021%	603637	95542	6.3	2	19	19	.1874	4.9018E-06
5	2.22	1242-2	3.2063	19.9407%	1076377	137885	7.8	2	19	19	.2257	2.9788E-06
6	2.45	1242-3	3.0651	19.0624%	690215	86886	7.9	2	19	19	.3764	4.4407E-06
7	2.86	1242-4	3.4352	21.3642%	2347540	216206	10.9	2	19	19	0	1.4633E-06
12	4.99	1242-5	3.3090	20.5794%	1708571	81244	21.0	2	19	19	-.1577	1.9367E-06
19	21.29	MIREX	1.0000	0.0000%	2823725	44879	62.9	2	19	19	0	3.5414E-07

TOTAL AMOUNT = 16.0792

Average $\underset{n=5}{=}$ 3.1949

SB 11/6/90

Data File = W:1MAG41.PTS Printed on 11-03-1990 at 12:56:49
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

PART V

Sample Data

A. Reports and Chromatograms

   i) primary
   ii) secondary

B. Comparison Chromatograms

   i) primary
   ii) secondary

5

PRIMARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 10:22:05 Version 4.1 **********

* Sample Name: 91FF03R57 SF 7452 Data File: W:2MAG30 *
* Date: 11-01-1990 07:52:05 Method: W:2PESTAR 10-31-1990 14:14:23 # 128*
* Interface: 0 Cycle#: 30 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PRIMARY COLUMN~~ *

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.050000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~6~~	~~2.04~~	~~A-BHC~~	~~0.0047~~	~~0.0353%~~	~~32771~~	~~3347~~	~~9.8~~	~~1~~	~~25~~	~~-2.222~~	~~1.5003E-07~~
~~8~~	~~2.57~~	~~LINDANE~~	~~0.0098~~	~~0.0707%~~	~~67585~~	~~8010~~	~~8.4~~	~~1~~	~~25~~	~~2.518~~	~~1.4559E-07~~
~~10~~	~~3.24~~	~~HEPT~~	~~0.0004~~	~~0.0028%~~	~~2904~~	~~451~~	~~6.4~~	~~1~~	~~25~~	~~1.633~~	~~1.3583E-07~~
~~13~~	~~4.02~~	~~ALDRIN~~	~~0.0044~~	~~0.0313%~~	~~9373~~	~~913~~	~~10.3~~	~~1~~	~~25~~	~~1.057~~	~~4.6533E-07~~
~~18~~	~~7.48~~	~~ENDO I~~	~~0.0001~~	~~0.0009%~~	~~15873~~	~~920~~	~~17.3~~	~~1~~	~~25~~	~~.3970~~	~~8.0336E-09~~
~~19~~	~~8.03~~	~~DIELDRIN~~	~~0.0040~~	~~0.0284%~~	~~17030~~	~~634~~	~~26.9~~	~~1~~	~~25~~	~~-3.713~~	~~2.3203E-07~~
~~20~~	~~10.77~~	~~ENDRIN~~	~~0.0151~~	~~0.1086%~~	~~9727~~	~~407~~	~~23.9~~	~~1~~	~~25~~	~~3.025~~	~~1.5521E-06~~
~~22~~	~~14.08~~	~~ENDOII~~	~~0.0140~~	~~0.1006%~~	~~18802~~	~~564~~	~~33.3~~	~~1~~	~~25~~	~~4.984~~	~~7.4438E-07~~
25	24.27	MIREX	~~11.3117~~	81.3013%	2358350	38928	60.6	1	25	0	4.7964E-06
~~26~~	~~29.66~~	~~METHOXYCHLOR~~	~~2.5492~~	~~18.3218%~~	~~11124130~~	~~140176~~	~~79.4~~	~~1~~	~~25~~	~~2.701~~	~~2.2916E-07~~

TOTAL AMOUNT = 13.9133

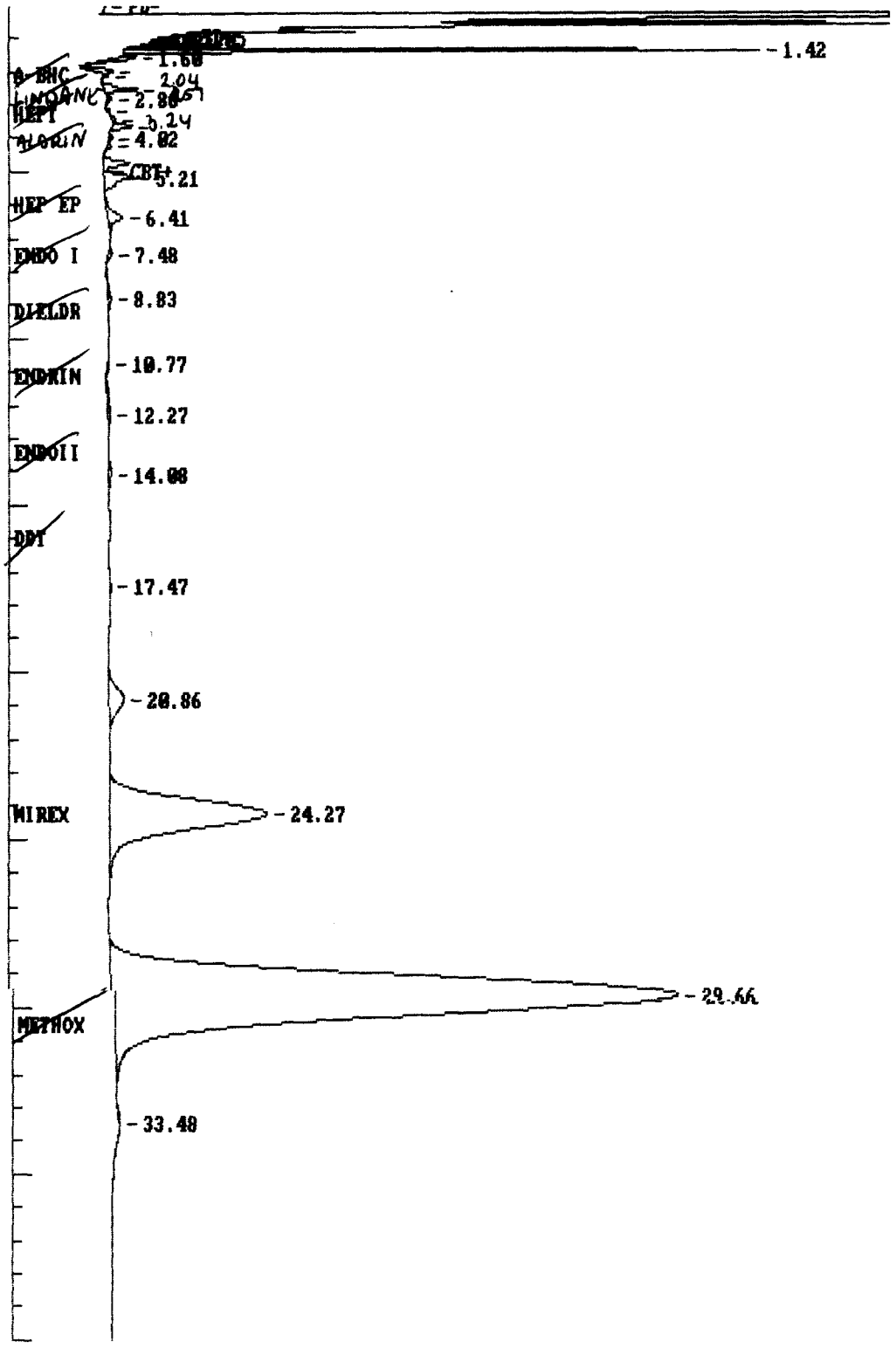
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
HEP EPOX	5.97	MIREX
DDT	16.01	MIREX

11/6/90

PRIMARY COLUMN

Data File = W:2MAG30.PTS Printed on 11-02-1990 at 10:22:28
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SB 11/6/90

PRIMARY COLUMN

****** EXTERNAL STANDARD TABLE ******

********** 11-02-1990 10:40:36 Version 4.1 **********

* Sample Name: 91FF03R57 SF 7452 Data File: W:2MA630 *
* Date: 11-01-1990 07:52:05 Method: W:2PESTBR 10-31-1990 14:25:13 # 211*
* Interface: 0 Cycle#: 30 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PRIMARY COLUMN~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.050000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	1.42	TCMX	0.0605	0.5019%	559205	158343	3.5	3	22	1.134	1.0820E-07
LDL ~~RT6~~	~~2.86~~	~~B-BHC~~	~~0.0032~~	~~0.0264%~~	~~12654~~	~~1383~~	~~9.2~~	~~1~~	~~22~~	~~4.944~~	~~2.5126E-07~~
LDL ~~RT8~~	~~3.46~~	~~D-BHC~~	~~0.0045~~	~~0.0374%~~	~~28683~~	~~2736~~	~~10.5~~	~~2~~	~~22~~	~~1.216~~	~~1.5715E-07~~
LDL, ~~RT7~~	~~6.41~~	~~G-CHLORDANE~~	~~0.0068~~	~~0.0566%~~	~~78422~~	~~3715~~	~~21.1~~	~~1~~	~~22~~	~~3.360~~	~~8.6943E-08~~
~~15~~	~~7.48~~	~~A-CHLORDANE~~	~~0.0007~~	~~0.0057%~~	~~15873~~	~~920~~	~~17.3~~	~~1~~	~~22~~	~~3.244~~	~~4.3109E-08~~
LDL, ~~NG6~~	~~8.83~~	~~DDE~~	~~0.0042~~	~~0.0352%~~	~~17030~~	~~634~~	~~26.9~~	~~1~~	~~22~~	~~1.747~~	~~2.4942E-07~~
~~RT20~~	~~17.47~~	~~END ALDEHYDE~~	~~0.0142~~	~~0.1170%~~	~~9827~~	~~311~~	~~31.6~~	~~1~~	~~22~~	~~.3069~~	~~1.4450E-06~~
DL, ~~RT21~~	~~20.86~~	~~END SULFATE~~	~~0.0171~~	~~0.1417%~~	~~172819~~	~~3609~~	~~47.9~~	~~1~~	~~22~~	~~-1.740~~	~~9.8858E-08~~
22	24.27	MIREX	~~10.5833~~	87.7944%	2358350	38928	60.6	1	22	0	4.4876E-06
~~23~~	~~29.66~~	~~END KETONE~~	~~1.3670~~	~~11.3470%~~	~~11124130~~	~~140176~~	~~79.4~~	~~1~~	~~22~~	~~3.263~~	~~1.2296E-07~~

TOTAL AMOUNT = 12.0547

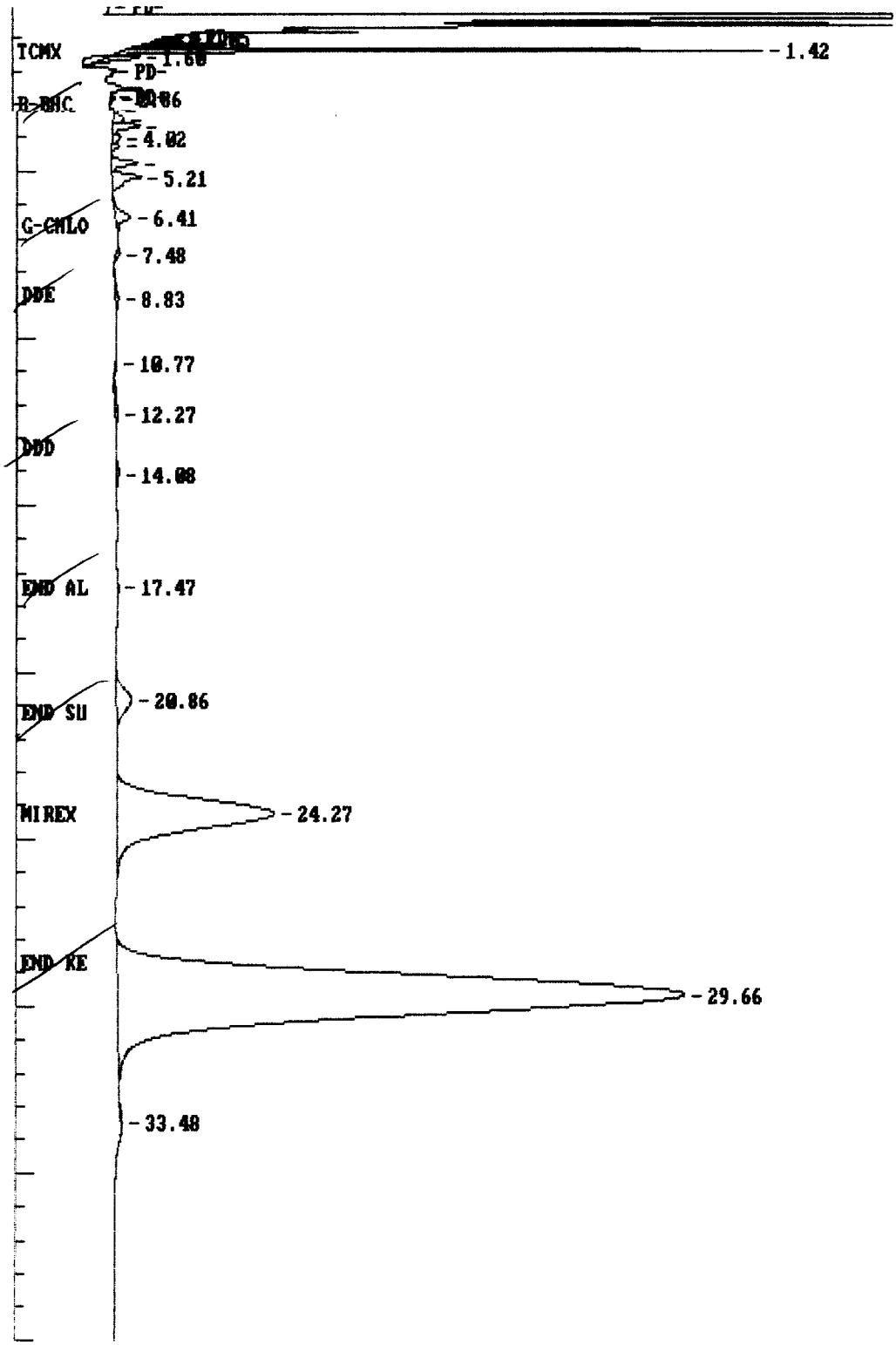
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
DDD	13.26	MIREX

SD 11/6/90

PRIMARY COLUMN

Data File = W:2MAG30.PTS Printed on 11-02-1990 at 10:40:58
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

SECONDARY COLUMN

```
****** EXTERNAL STANDARD TABLE ******
******************** 11-02-1990 11:34:59 Version 4.1 **********************
* Sample Name: 91FF03R57 SF 7452                Data File: W:1MAG29        *
* Date: 11-01-1990 07:08:03 Method: W:1PESTA1  11-01-1990 10:58:37  #  156*
* Interface: 0   Cycle#:  29   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD ~~QUANTEXT~~          Detector 1: ECD ~~CONFQUANT~~  *
* Misc. Information: ~~PERFORMANCE EVALUATION~~          LPT1:          *  *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    40.00
Area reject:        0                      One sample per    1.002 sec.
Amount injected:        1.00               Dilution factor:       10.00
Sample Weight:          1.050000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~4~~	~~1.09~~	~~A-BHC~~	~~0.0115~~	~~0.1022%~~	~~50760~~	~~9337~~	~~5.4~~	~~2~~	~~22~~	~~.7113~~	~~2.2574E-07~~
~~10~~	~~3.32~~	~~HEPT.~~	~~0.0059~~	~~0.0522%~~	~~54778~~	~~3610~~	~~15.2~~	~~2~~	~~22~~	~~4.921~~	~~1.0675E-07~~
~~12~~	~~4.21~~	~~ALDRIN~~	~~0.0320~~	~~0.2850%~~	~~219020~~	~~13076~~	~~16.8~~	~~2~~	~~22~~	~~2.675~~	~~1.4597E-07~~
~~14~~	~~5.38~~	~~HEP EPOX~~	~~0.0064~~	~~0.0568%~~	~~19311~~	~~1171~~	~~16.5~~	~~2~~	~~22~~	~~2.564~~	~~3.2966E-07~~
~~17~~	~~7.78~~	~~DIELDRIN~~	~~0.0112~~	~~0.1002%~~	~~11708~~	~~466~~	~~25.1~~	~~2~~	~~22~~	~~2.597~~	~~9.6001E-07~~
~~21~~	~~12.19~~	~~DDT~~	~~0.0483~~	~~0.4310%~~	~~313263~~	~~8339~~	~~37.6~~	~~2~~	~~22~~	~~-1.220~~	~~1.5434E-07~~
22	22.85	MIREX	~~11.1013~~	98.9726%	2958654	45234	65.4	2	22	0	3.7521E-06

TOTAL AMOUNT = 11.2165

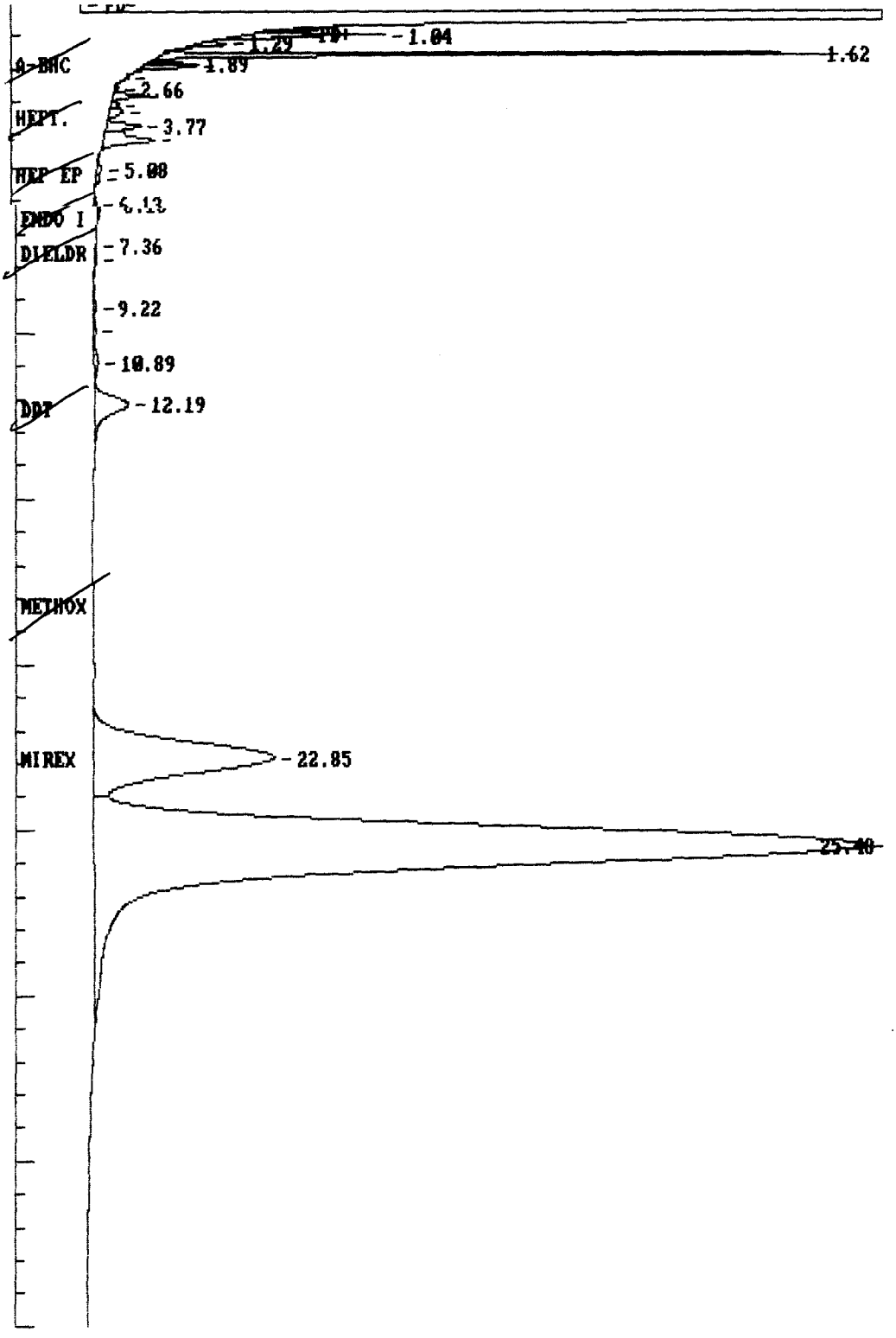
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
LINDANE	2.20	MIREX
ENDO I	6.52	MIREX
EN + EN II	8.56	MIREX
METHOXYCHLOR	18.22	MIREX

11/6/90

SECONDARY COLUMN

Data File = W:1MAG29.PTS Printed on 11-02-1990 at 11:35:21
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8 11/6/90

SECONDARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 11:47:47 Version 4.1 **********

* Sample Name: 91FF03R57 SF 7452 Data File: W:1MAG29 *
* Date: 11-01-1990 07:08:03 Method: W:1PESTB1 11-01-1990 11:33:53 # 156*
* Interface: 0 Cycle#: 29 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.050000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.62	TCMX	0.0654	0.6213%	800218	168783	4.7	2	22	-3.595	8.1726E-08
~~5~~	~~1.99~~	~~B-BHC~~	~~0.0184~~	~~0.1744%~~	~~107701~~	~~14052~~	~~7.7~~	~~2~~	~~22~~	~~.9364~~	~~1.7048E-07~~
~~6~~	~~2.32~~	~~D-BHC~~	~~0.0144~~	~~0.1367%~~	~~8424~~	~~1015~~	~~8.3~~	~~1~~	~~22~~	~~4.400~~	~~1.7081E-06~~
<DL ~~15~~	~~6.13~~	~~G-CHLOR~~	~~0.0067~~	~~0.0634%~~	~~27384~~	~~772~~	~~35.5~~	~~1~~	~~22~~	~~2.376~~	~~2.4371E-07~~
~~16~~	~~7.36~~	~~DDE~~	~~0.0121~~	~~0.1147%~~	~~6106~~	~~286~~	~~21.3~~	~~2~~	~~22~~	~~1.608~~	~~1.9780E-06~~
~~18~~	~~9.22~~	~~DDD+END ALD~~	~~0.0312~~	~~0.2965%~~	~~18672~~	~~543~~	~~34.4~~	~~2~~	~~22~~	~~2.140~~	~~1.6715E-06~~
~~20~~	~~10.89~~	~~END SULFATE~~	~~0.0313~~	~~0.2973%~~	~~36673~~	~~1003~~	~~36.6~~	~~2~~	~~22~~	~~1.000~~	~~8.5341E-07~~
<DL 22	22.85	MIREX	~~10.3467~~	98.2956%	2958654	45234	65.4	2	22	0	3.4971E-06

TOTAL AMOUNT = 10.5261

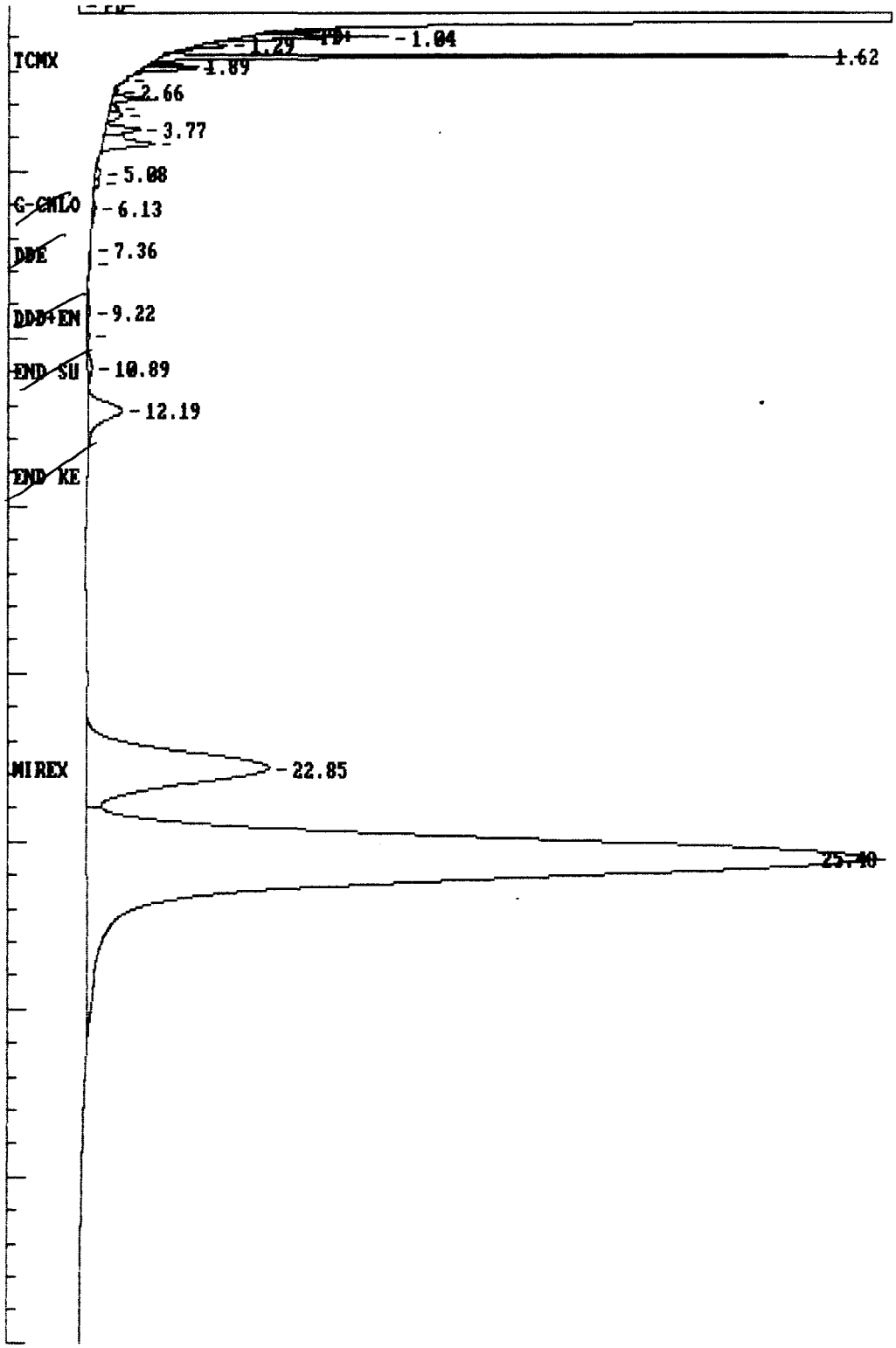
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-CHLOR	6.59	MIREX
END KETONE	14.12	MIREX

SO 11/6/90

SECONDARY COLUMN

Data File = W:1MAG29.PTS Printed on 11-02-1990 at 11:48:09
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



SO 11/6/90

PRIMARY COLUMN

****** EXTERNAL STANDARD TABLE ******

********** 11-02-1990 10:28:58 Version 4.1 **********

* Sample Name: 91FF27S48 SF 7452 Data File: W:2MAG38 *
* Date: 11-01-1990 13:59:09 Method: W:2PESTAR 10-31-1990 14:14:23 # 128*
* Interface: 0 Cycle#: 38 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PRIMARY COLUMN~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.015000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~7~~	~~2.10~~	~~A-BHC~~	~~0.0023~~	~~0.0160%~~	~~9399~~	~~1514~~	~~6.2~~	~~1~~	~~25~~	~~2.250~~	~~2.4608E-07~~
~~11~~	~~3.19~~	~~HEPT~~	~~0.0006~~	~~0.0044%~~	~~4802~~	~~823~~	~~5.8~~	~~1~~	~~25~~	~~-1.939~~	~~1.3320E-07~~
~~14~~	~~3.97~~	~~ALDRIN~~	~~0.0055~~	~~0.0384%~~	~~17080~~	~~937~~	~~18.2~~	~~1~~	~~25~~	~~-1.051~~	~~3.2438E-07~~
~~18~~	~~7.21~~	~~ENDO I~~	~~0.0305~~	~~0.2113%~~	~~230034~~	~~9166~~	~~25.1~~	~~2~~	~~25~~	~~2.749~~	~~1.3264E-07~~
~~20~~	~~8.97~~	~~DIELDRIN~~	~~0.0077~~	~~0.0547%~~	~~44655~~	~~1080~~	~~41.3~~	~~2~~	~~25~~	~~1.031~~	~~1.7697E-07~~
~~22~~	~~10.64~~	~~ENDRIN~~	~~0.0158~~	~~0.1095%~~	~~10717~~	~~419~~	~~25.6~~	~~1~~	~~25~~	~~-3.026~~	~~1.4760E-06~~
25	23.96	MIREX	~~11.4963~~	79.6123%	2316954	38718	59.8	1	25	0	4.9618E-06
~~26~~	~~29.28~~	~~METHOXYCHLOR~~	~~2.8813~~	~~19.9533%~~	~~12154476~~	~~152079~~	~~79.9~~	~~3~~	~~25~~	~~-2.756~~	~~2.3706E-07~~

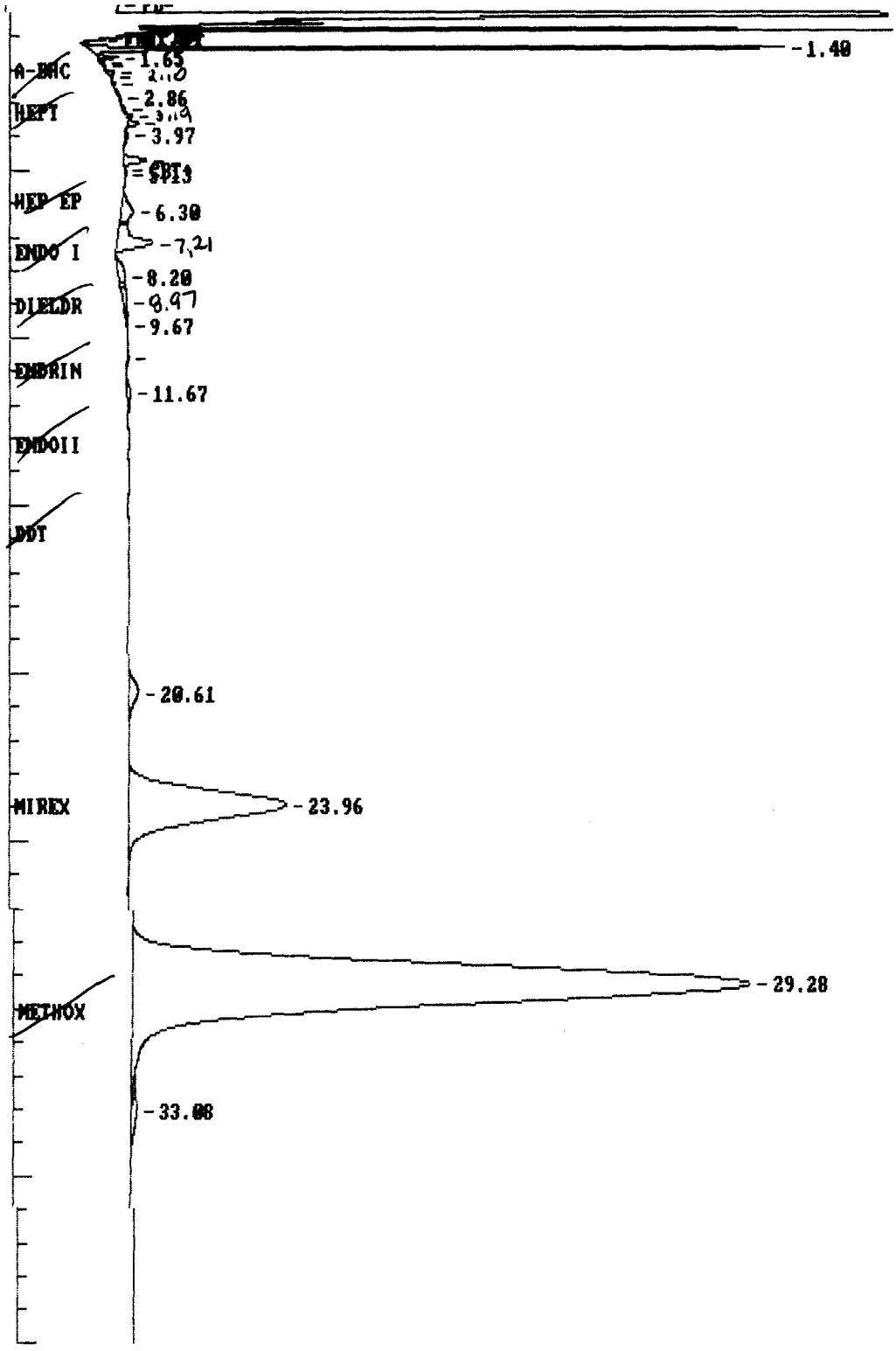
TOTAL AMOUNT = 14.4404

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
LINDANE	2.61	MIREX
HEP EPOX	5.89	MIREX
ENDOII	13.24	MIREX
DDT	15.82	MIREX

PRIMARY COLUMN

Data File = W:2MAG38.PTS Printed on 11-02-1990 at 10:29:19
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

PRIMARY COLUMN

****** EXTERNAL STANDARD TABLE ******

********** 11-02-1990 10:47:26 Version 4.1 **********

* Sample Name: 91FF27S48 SF 7452 Data File: W:2MAG38 *
* Date: 11-01-1990 13:59:09 Method: W:2PESTBR 10-31-1990 14:25:13 # 211*
* Interface: 0 Cycle#: 38 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PRIMARY COLUMN~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.015000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.40	TCMX	0.0773	0.6219%	690664	171729	4.0	2	22	1.198	1.1193E-07
~~7~~	~~2.86~~	~~B-BHC~~	~~0.0052~~	~~0.0417%~~	~~4227~~	~~543~~	~~7.8~~	~~1~~	~~22~~	~~-3.752~~	~~-1.2274E-08~~
~~9~~	~~3.42~~	~~D-BHC~~	~~0.0045~~	~~0.0362%~~	~~27437~~	~~2609~~	~~10.5~~	~~2~~	~~22~~	~~-.9434~~	~~1.6414E-07~~
~~14~~	~~6.30~~	~~G-CHLORDANE~~	~~0.0092~~	~~0.0739%~~	~~95084~~	~~3050~~	~~31.2~~	~~2~~	~~22~~	~~3.931~~	~~9.6556E-08~~
~~15~~	~~7.21~~	~~A-CHLORDANE~~	~~0.0248~~	~~0.1999%~~	~~230034~~	~~9166~~	~~25.1~~	~~2~~	~~22~~	~~.8055~~	~~1.0799E-07~~
~~16~~	~~8.20~~	~~DDE~~	~~0.0104~~	~~0.0838%~~	~~57088~~	~~1610~~	~~35.5~~	~~2~~	~~22~~	~~4.377~~	~~1.8255E-07~~
~~21~~	~~20.61~~	~~END SULFATE~~	~~0.0070~~	~~0.0564%~~	~~103308~~	~~2283~~	~~45.3~~	~~1~~	~~22~~	~~1.703~~	~~6.7857E-08~~
22	23.96	MIREX	~~10.7361~~	86.5321%	2316954	38718	59.8	1	22	0	4.6423E-06
~~23~~	~~29.28~~	~~END KETONE~~	~~1.5460~~	~~12.4375%~~	~~12154476~~	~~152079~~	~~79.9~~	~~3~~	~~22~~	~~3.204~~	~~1.2720E-07~~

TOTAL AMOUNT = 12.4302

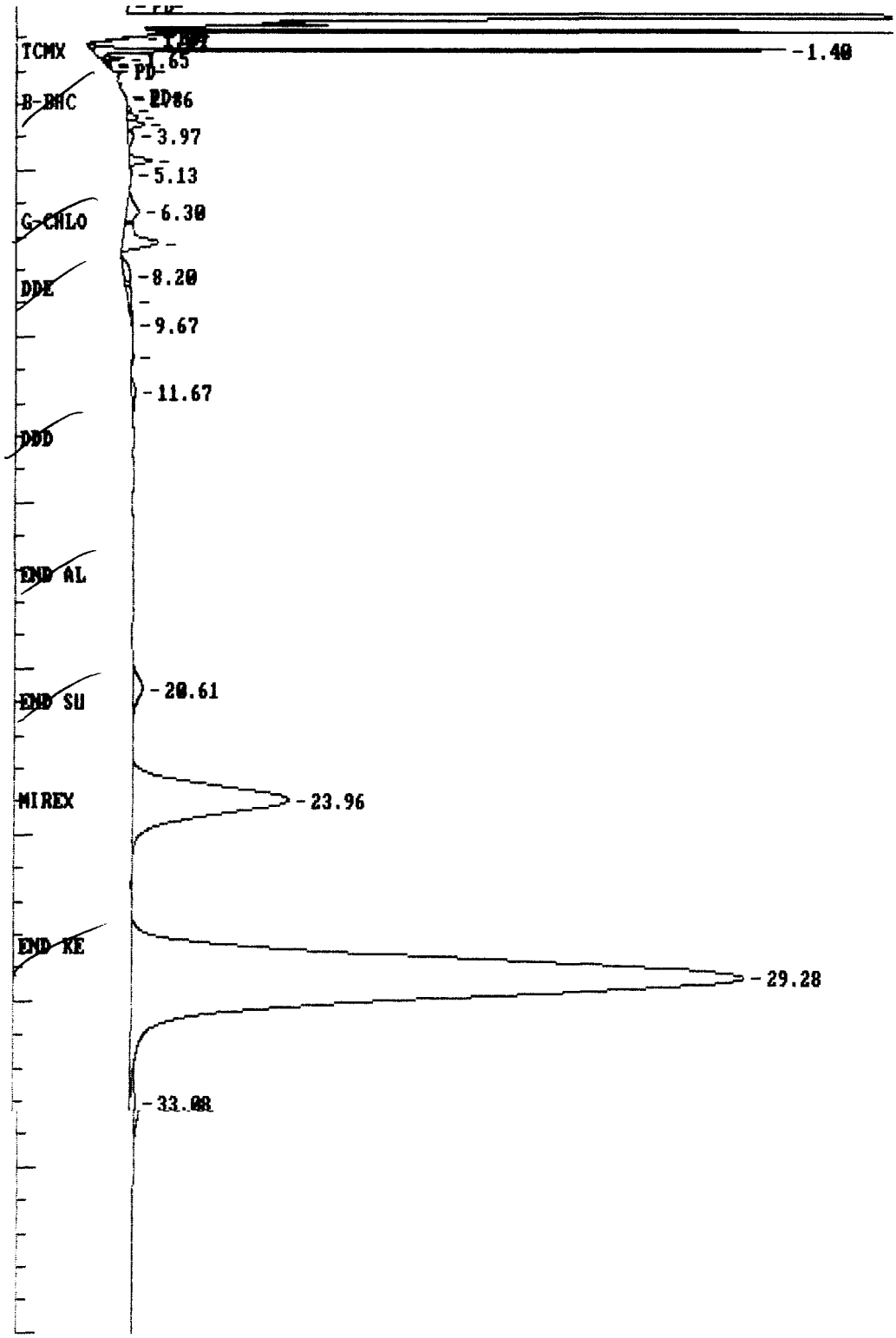
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
DDD	13.09	MIREX
END ALDEHYDE	17.20	MIREX

11/6/90

PRIMARY COLUMN

Data File = W:2MAG38.PTS Printed on 11-02-1990 at 10:47:47
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

SECONDARY COLUMN

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****** EXTERNAL STANDARD TABLE ******
******************** 11-02-1990 11:22:04 Version 4.1 **********************
* Sample Name: 91FF27S48 SF 7452                    Data File: W:1MAG37      *
* Date: 11-01-1990 13:17:48 Method: W:1PESTA  10-30-1990 14:55:36  #  155 *
* Interface: 0   Cycle#:  37   Operator DKC Channel#: 0    Vial#: N.A.      *
* Starting Peak Width: 10   Threshold: 1  Area Threshold: 100               *
*****************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS         *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN                *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                     *
*            Detector 0: ECD ~~QUANT~~CONF        Detector 1: ECD ~~CONF~~QUANT  *
* Misc. Information: ~~PERFORMANCE EVALUATION~~          LPT1:          *   *
*****************************************************************************
Starting Delay:    0.00                    Ending retention time:    40.00
Area reject:        0                      One sample per   1.002 sec.
Amount injected:        1.00               Dilution factor:       10.00
Sample Weight:          1.015000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~3~~	~~2.07~~	~~LINDANE~~	~~0.0056~~	~~0.0509%~~	~~3449~~	~~420~~	~~8.2~~	~~2~~	~~16~~	~~1.318~~	~~1.6313E-06~~
~~RT~~	~~3.19~~	~~HEPT.~~	~~0.0035~~	~~0.0313%~~	~~27399~~	~~2169~~	~~12.6~~	~~2~~	~~16~~	~~-4.411~~	~~1.2810E-07~~
~~10~~	~~4.91~~	~~HEP EPOX~~	~~0.0047~~	~~0.0421%~~	~~1455~~	~~165~~	~~8.8~~	~~1~~	~~16~~	~~1.908~~	~~3.1962E-06~~
~~RT~~	~~7.48~~	~~DIELDRIN~~	~~0.0110~~	~~0.0992%~~	~~5907~~	~~228~~	~~25.9~~	~~1~~	~~16~~	~~3.317~~	~~1.8546E-06~~
~~15~~	~~11.67~~	~~DDT~~	~~0.0347~~	~~0.3142%~~	~~199067~~	~~5731~~	~~34.7~~	~~1~~	~~16~~	~~-.9253~~	~~1.7436E-07~~
16	21.81	MIREX	~~10.9880~~	99.4623%	2830834	44251	64.0	2	16	0	3.8815E-06

TOTAL AMOUNT = 11.0474

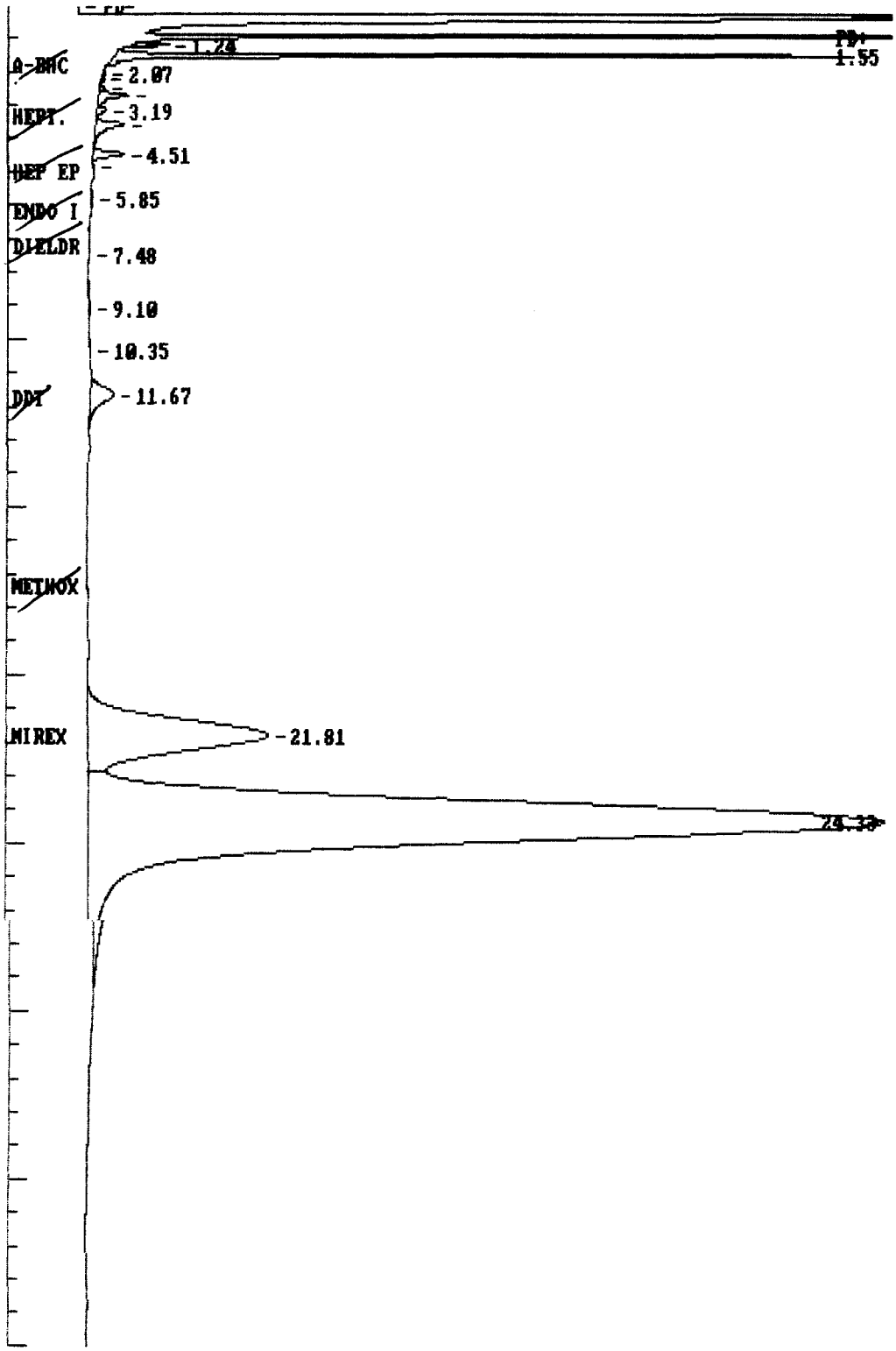
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	1.79	MIREX
ALDRIN	4.13	MIREX
ENDO I	6.23	MIREX
EN + EN II	8.17	MIREX
METHOXYCHLOR	17.39	MIREX

11/6/90

SECONDARY COLUMN

Data File = W:1MAG37.PTS Printed on 11-02-1990 at 11:22:25
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



80 11/6/90

SECONDARY COLUMN

EXTERNAL STANDARD TABLE

********** 11-04-1990 16:06:56 Version 4.1 **********

* Sample Name: 91FF27S48 SF 7452 Data File: W:1MAG37 *
* Date: 11-01-1990 13:17:48 Method: W:1PESTB 11-04-1990 13:44:09 # 160 *
* Interface: 0 Cycle#: 37 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONF~~QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.015000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	1.55	TCMX	0.0743	0.7138%	878919	181560	4.8	1	16	-2.327	8.4544E-08
~~13~~	~~2.07~~	~~B-BHC~~	~~0.0015~~	~~0.0147%~~	~~3449~~	~~420~~	~~8.2~~	~~2~~	~~16~~	~~4.199~~	~~4.4248E-07~~
~~14~~	~~2.27~~	~~D-BHC~~	~~0.0146~~	~~0.1402%~~	~~5377~~	~~773~~	~~7.0~~	~~2~~	~~16~~	~~1.197~~	~~2.7137E-06~~
~~11~~	~~5.84~~	~~G-CHLOR~~	~~0.0049~~	~~0.0469%~~	~~7128~~	~~322~~	~~22.1~~	~~1~~	~~16~~	~~-2.800~~	~~6.8480E-07~~
~~12~~	~~7.48~~	~~DDE~~	~~0.0125~~	~~0.1198%~~	~~5907~~	~~228~~	~~25.9~~	~~1~~	~~16~~	~~.9754~~	~~2.1108E-06~~
~~13~~	~~9.10~~	~~DDD+END ALD~~	~~0.0329~~	~~0.3165%~~	~~23745~~	~~448~~	~~53.0~~	~~1~~	~~16~~	~~4.279~~	~~1.3877E-06~~
~~14~~	~~10.35~~	~~END SULFATE~~	~~0.0283~~	~~0.2717%~~	~~4364~~	~~206~~	~~21.2~~	~~1~~	~~16~~	~~-1.916~~	~~6.4820E-06~~
16	21.81	MIREX	~~10.2411~~	98.3764%	2830834	44251	64.0	2	16	0	3.6177E-06

TOTAL AMOUNT = 10.4101

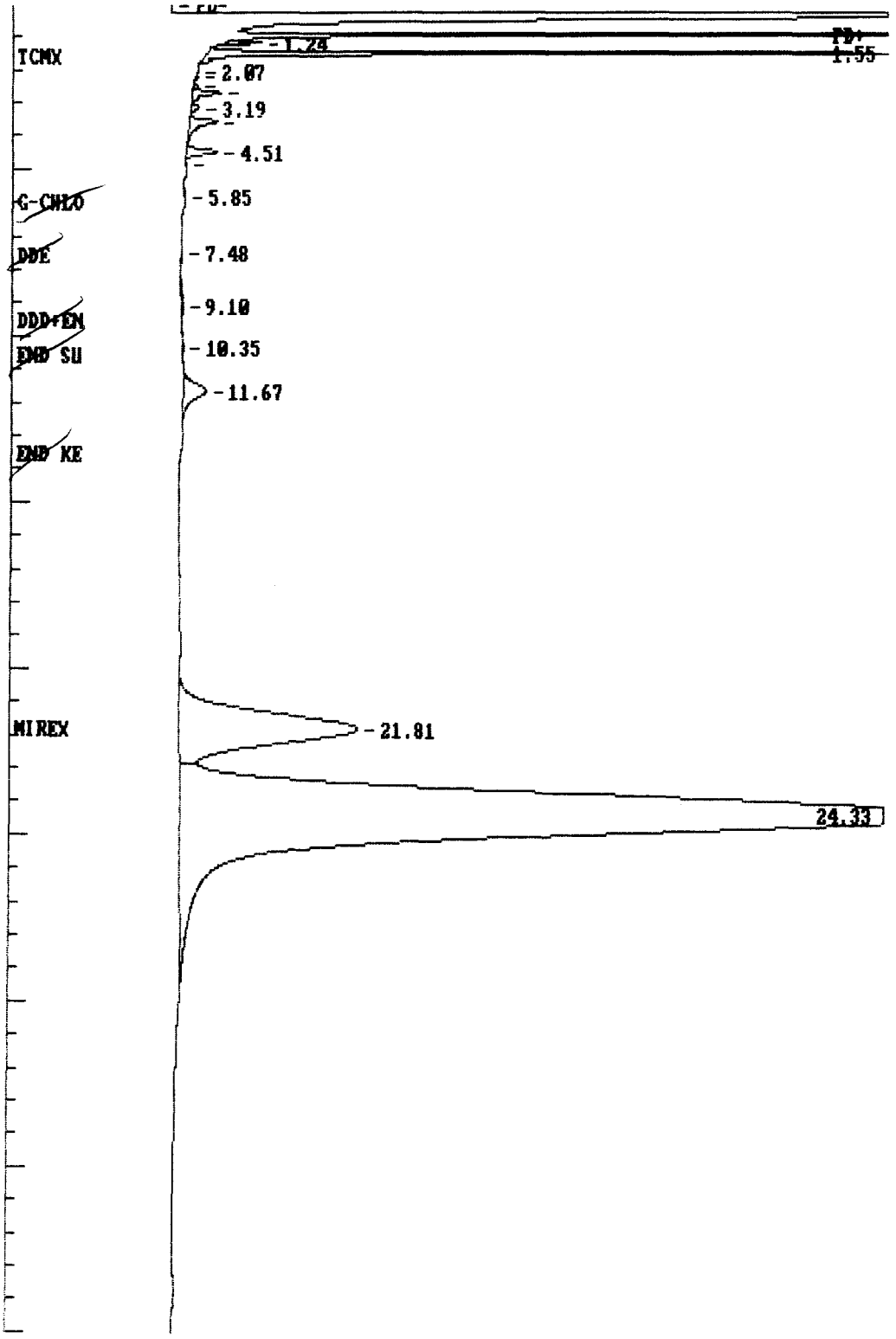
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-CHLOR	6.65	MIREX
END KETONE	13.53	MIREX

11/6/90

SECONDARY COLUMN

Data File = W:1MAG37.PTS Printed on 11-04-1990 at 16:07:37
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



8/11/6/90

PRIMARY COLUMN

****** EXTERNAL STANDARD TABLE ******

********** 11-02-1990 10:23:26 Version 4.1 **********

* Sample Name: 91FF27S49 SF 7452 Data File: W:2MAG31 *
* Date: 11-01-1990 10:07:52 Method: W:2PESTAR 10-31-1990 14:14:23 # 128*
* Interface: 0 Cycle#: 31 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.050000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
K ~~8~~	~~2.57~~	~~LINDANE~~	~~0.0030~~	~~0.0233%~~	~~10517~~	~~732~~	~~14.4~~	~~1~~	~~25~~	~~2.451~~	~~2.8957E-07~~
~~10~~	~~3.31~~	~~HEPT~~	~~0.0003~~	~~0.0025%~~	~~2347~~	~~263~~	~~8.9~~	~~1~~	~~25~~	~~.4638~~	~~1.4007E-07~~
~~12~~	~~3.99~~	~~ALDRIN~~	~~0.0040~~	~~0.0304%~~	~~6450~~	~~857~~	~~7.5~~	~~2~~	~~25~~	~~.2882~~	~~6.1772E-07~~
~~17~~	~~7.28~~	~~ENDO I~~	~~0.1130~~	~~0.8633%~~	~~833511~~	~~39037~~	~~21.4~~	~~2~~	~~25~~	~~2.998~~	~~1.3553E-07~~
~~20~~	~~10.70~~	~~ENDRIN~~	~~0.0428~~	~~0.3269%~~	~~151109~~	~~2879~~	~~52.5~~	~~3~~	~~25~~	~~-3.560~~	~~2.8307E-07~~
~~22~~	~~13.23~~	~~ENDOII~~	~~0.0129~~	~~0.0983%~~	~~9602~~	~~351~~	~~27.4~~	~~2~~	~~25~~	~~1.298~~	~~1.3391E-06~~
25	24.25	MIREX	~~11.5457~~	88.2330%	2407143	39560	60.8	1	25	0	4.7964E-06
~~26~~	~~29.63~~	~~METHOXYCHLOR~~	~~1.3638~~	~~10.4224%~~	~~5951829~~	~~77237~~	~~77.1~~	~~1~~	~~25~~	~~-2.743~~	~~2.2914E-07~~

TOTAL AMOUNT = 13.0855

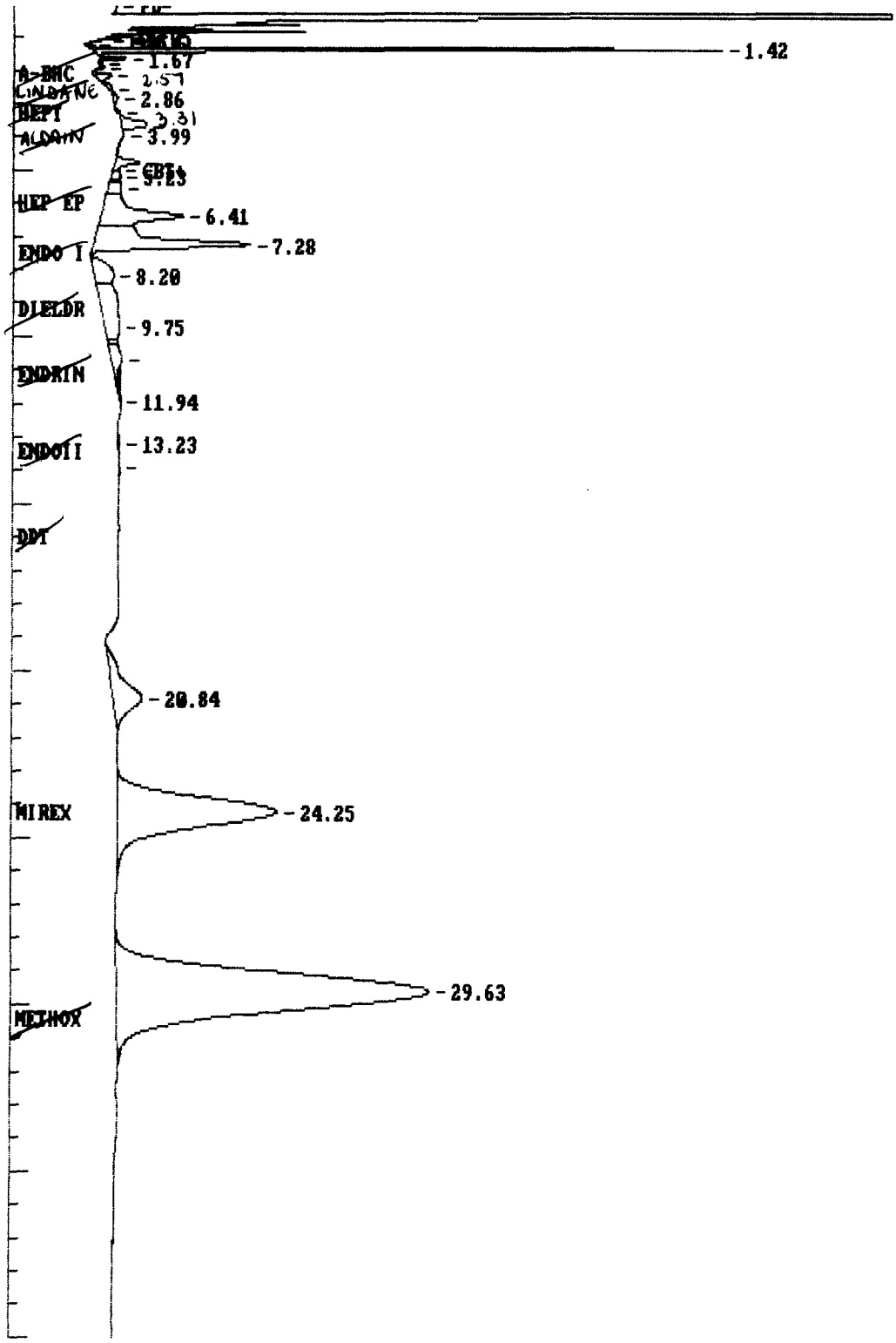
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	2.08	MIREX
HEP EPOX	5.96	MIREX
DIELDRIN	9.17	MIREX
DDT	16.00	MIREX

SB 11/6/90

PRIMARY COLUMN

Data File = W:2MAG31.FTS Printed on 11-02-1990 at 10:23:48
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

PRIMARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 10:41:56 Version 4.1 **********

* Sample Name: 91FF27S49 SF 7452 Data File: W:2MAG31 *
* Date: 11-01-1990 10:07:52 Method: W:2PESTBR 10-31-1990 14:25:13 # 211*
* Interface: 0 Cycle#: 31 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF QUANT~~ *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.050000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.42	TCMX	0.0678	0.5699%	626165	156384	4.0	2	22	1.204	1.0820E-07
DL, ~~RT6~~	~~2.86~~	~~B-BHC~~	~~0.0028~~	~~0.0230%~~	~~14251~~	~~999~~	~~14.3~~	~~2~~	~~22~~	~~-4.879~~	~~-1.9868E-07~~
~~RT8~~	~~3.67~~	~~D-BHC~~	~~0.0251~~	~~0.2110%~~	~~195021~~	~~9117~~	~~21.4~~	~~2~~	~~22~~	~~5.060~~	~~1.2862E-07~~
~~RT13~~	~~6.41~~	~~G-CHLORDANE~~	~~0.0762~~	~~0.6413%~~	~~640873~~	~~21586~~	~~29.7~~	~~2~~	~~22~~	~~-3.293~~	~~1.1897E-07~~
~~14~~	~~7.28~~	~~A-CHLORDANE~~	~~0.0960~~	~~0.8075%~~	~~854264~~	~~39308~~	~~21.7~~	~~2~~	~~22~~	~~.5478~~	~~1.1238E-07~~
~~15~~	~~8.20~~	~~DDE~~	~~0.0281~~	~~0.2367%~~	~~181287~~	~~4842~~	~~37.4~~	~~2~~	~~22~~	~~-5.496~~	~~1.5522E-07~~
DL, ~~RT19~~	~~13.23~~	~~DDD~~	~~0.0039~~	~~0.0327%~~	~~9602~~	~~351~~	~~27.4~~	~~2~~	~~22~~	~~.1471~~	~~4.0547E-07~~
DL, ~~RT21~~	~~20.84~~	~~END SULFATE~~	~~0.0603~~	~~0.5071%~~	~~464168~~	~~7032~~	~~66.0~~	~~1~~	~~22~~	~~-1.751~~	~~1.2989E-07~~
22	24.25	MIREX	~~10.8023~~	90.8593%	2407143	39560	60.8	1	22	0	4.4876E-06
~~23~~	~~29.63~~	~~END KETONE~~	~~0.7322~~	~~6.1583%~~	~~5951829~~	~~77237~~	~~77.1~~	~~1~~	~~22~~	~~3.217~~	~~1.2301E-07~~

TOTAL AMOUNT = 11.8890

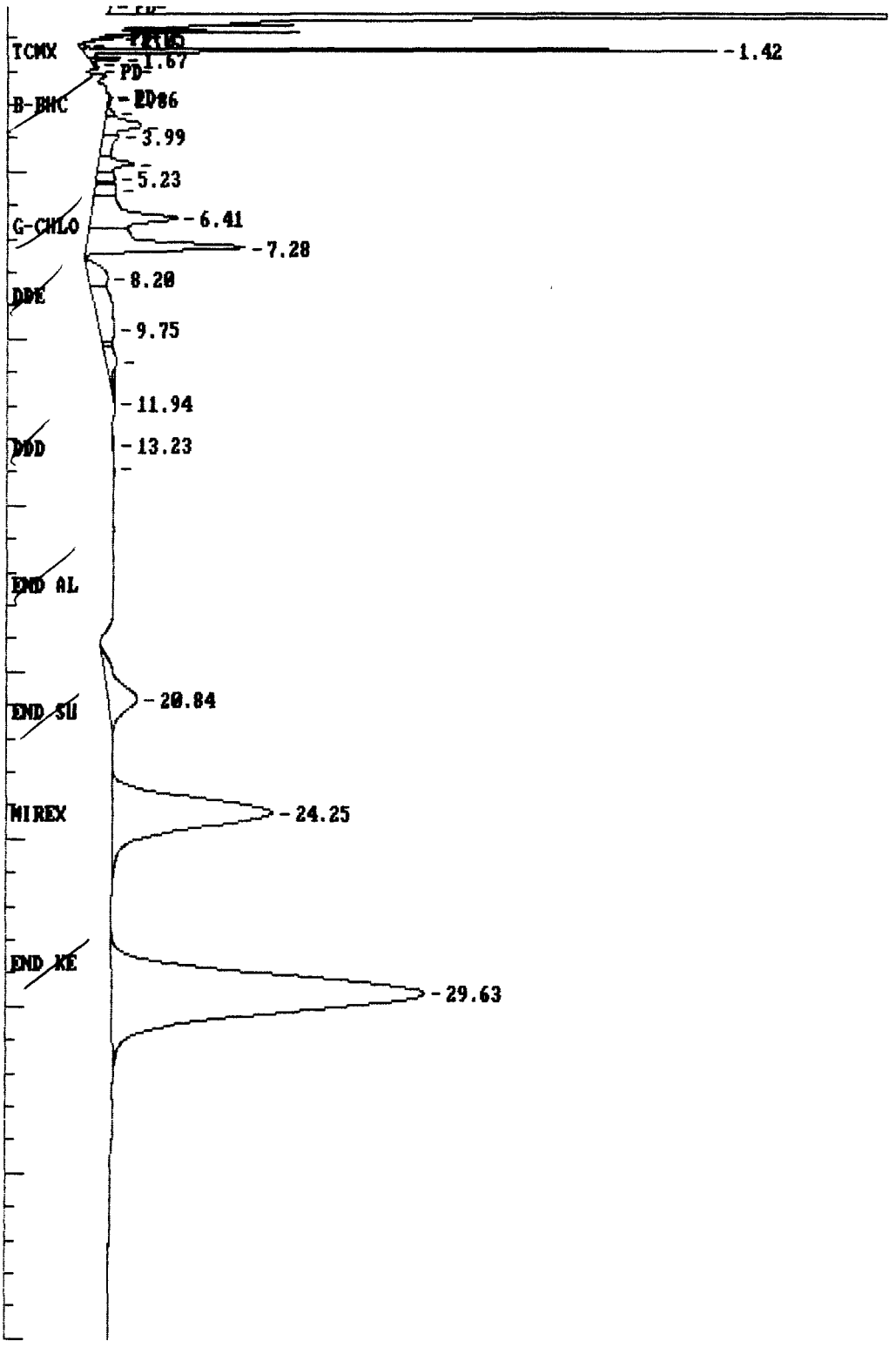
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
END ALDEHYDE	17.40	MIREX

8/11/90

PRIMARY COLU...

Data File = W:2MAG31.PTS Printed on 11-02-1990 at 10:42:18
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

SECONDARY COLUMN

****** EXTERNAL STANDARD TABLE ******

********** 11-02-1990 11:36:17 Version 4.1 **********

* Sample Name: 91FF27S49 SF 7452 Data File: W:1MAG30 *
* Date: 11-01-1990 07:52:06 Method: W:1PESTA1 11-01-1990 10:58:37 # 156*
* Interface: 0 Cycle#: 30 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.050000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~4~~	~~1.87~~	~~A-BHC~~	~~0.0092~~	~~0.0807%~~	~~24321~~	~~3929~~	~~6.2~~	~~4~~	~~19~~	~~-.3256~~	~~3.7760E-07~~
~~6~~	~~2.17~~	~~LINDANE~~	~~0.0071~~	~~0.0627%~~	~~21854~~	~~1945~~	~~11.2~~	~~2~~	~~19~~	~~-1.376~~	~~3.2681E-07~~
~~17~~	~~12.22~~	~~DDT~~	~~0.0566~~	~~0.4972%~~	~~376936~~	~~9972~~	~~37.8~~	~~2~~	~~19~~	~~-1.094~~	~~1.5015E-07~~
19	22.88	MIREX	~~11.3101~~	99.3594%	3014291	46147	65.3	2	19	0	3.7521E-06

TOTAL AMOUNT = 11.3830

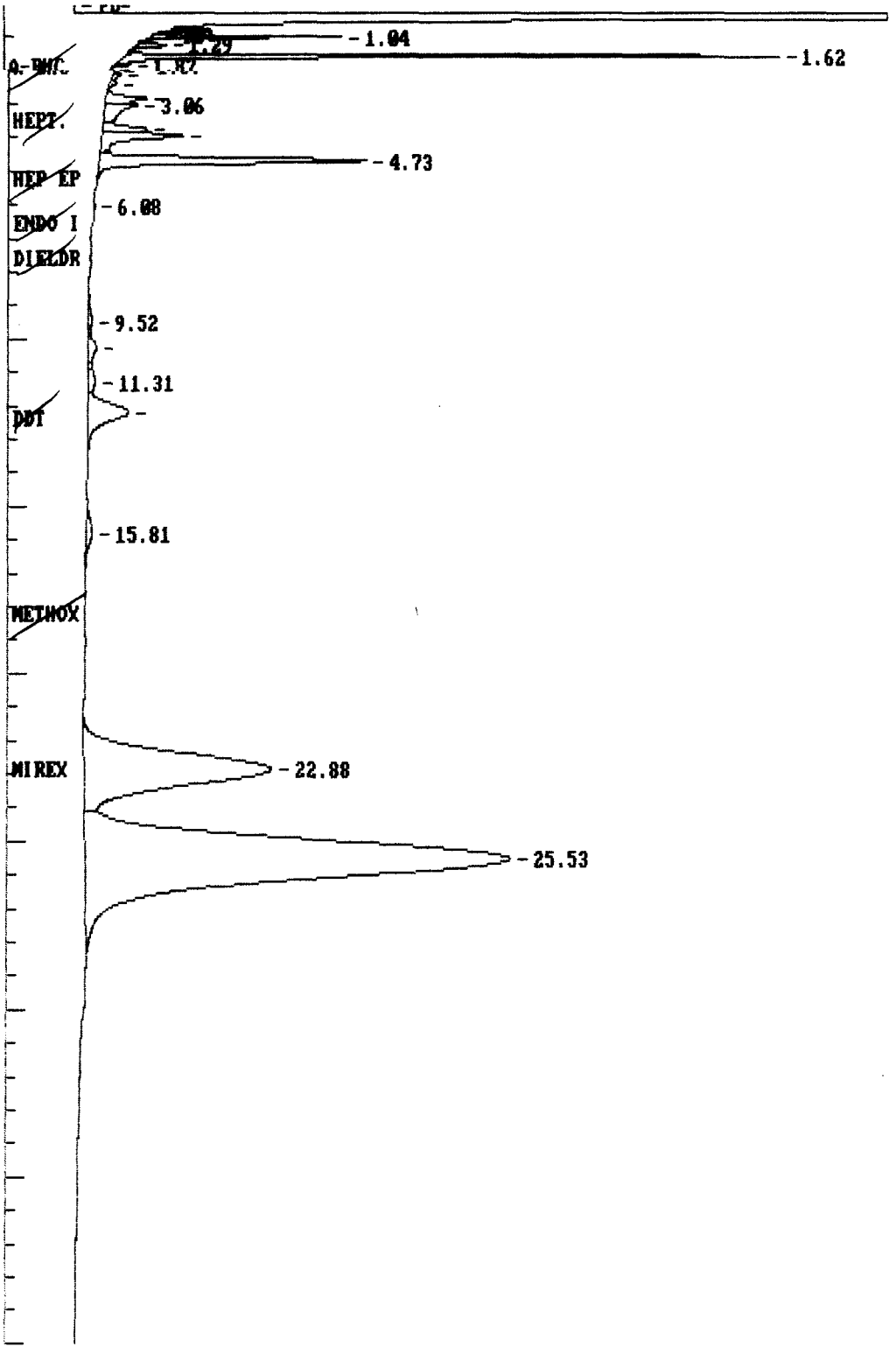
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
HEPT.	3.50	MIREX
ALDRIN	4.33	MIREX
HEP EPOX	5.25	MIREX
ENDO I	6.53	MIREX
DIELDRIN	7.60	MIREX
EN + EN II	8.57	MIREX
METHOXYCHLOR	18.24	MIREX

11/6/90

SECONDARY COLUMN

Data File = W:1MAG30.PTS Printed on 11-02-1990 at 11:36:37
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

SECONDARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 11:49:05 Version 4.1 **********

* Sample Name: 91FF27S49 SF 7452 Data File: W:1MAG30 *
* Date: 11-01-1990 07:52:06 Method: W:1PESTB1 11-01-1990 11:33:53 # 156*
* Interface: 0 Cycle#: 30 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.050000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.62	TCMX	0.0651	0.6090%	797156	161114	4.9	3	19	-3.736	8.1726E-08
LOQ, ~~RE~~	~~2.05~~	~~B-BHC~~	~~0.0015~~	~~0.0141%~~	~~3625~~	~~759~~	~~4.8~~	~~2~~	~~19~~	~~4.176~~	~~4.1485E-07~~
~~RE~~	~~2.17~~	~~D-BHC~~	~~0.0156~~	~~0.1462%~~	~~21854~~	~~1945~~	~~11.2~~	~~2~~	~~19~~	~~-2.501~~	~~7.1571E-07~~
LOQ, ~~RE~~	~~6.08~~	~~G-CHLOR~~	~~0.0042~~	~~0.0396%~~	~~2133~~	~~151~~	~~14.1~~	~~1~~	~~19~~	~~1.886~~	~~1.9864E-06~~
LOQ, ~~RE~~	~~9.52~~	~~DDD+END ALD~~	~~0.0347~~	~~0.3248%~~	~~46608~~	~~961~~	~~48.5~~	~~2~~	~~19~~	~~.9035~~	~~7.4544E-07~~
LOQ, ~~RE~~	~~11.31~~	~~END SULFATE~~	~~0.0344~~	~~0.3220%~~	~~62412~~	~~1734~~	~~36.0~~	~~2~~	~~19~~	~~2.645~~	~~5.5190E-07~~
19	22.88	MIREX	~~40.5413~~	98.5443%	3014291	46147	65.3	2	19	0	3.4971E-06

TOTAL AMOUNT = 10.6970

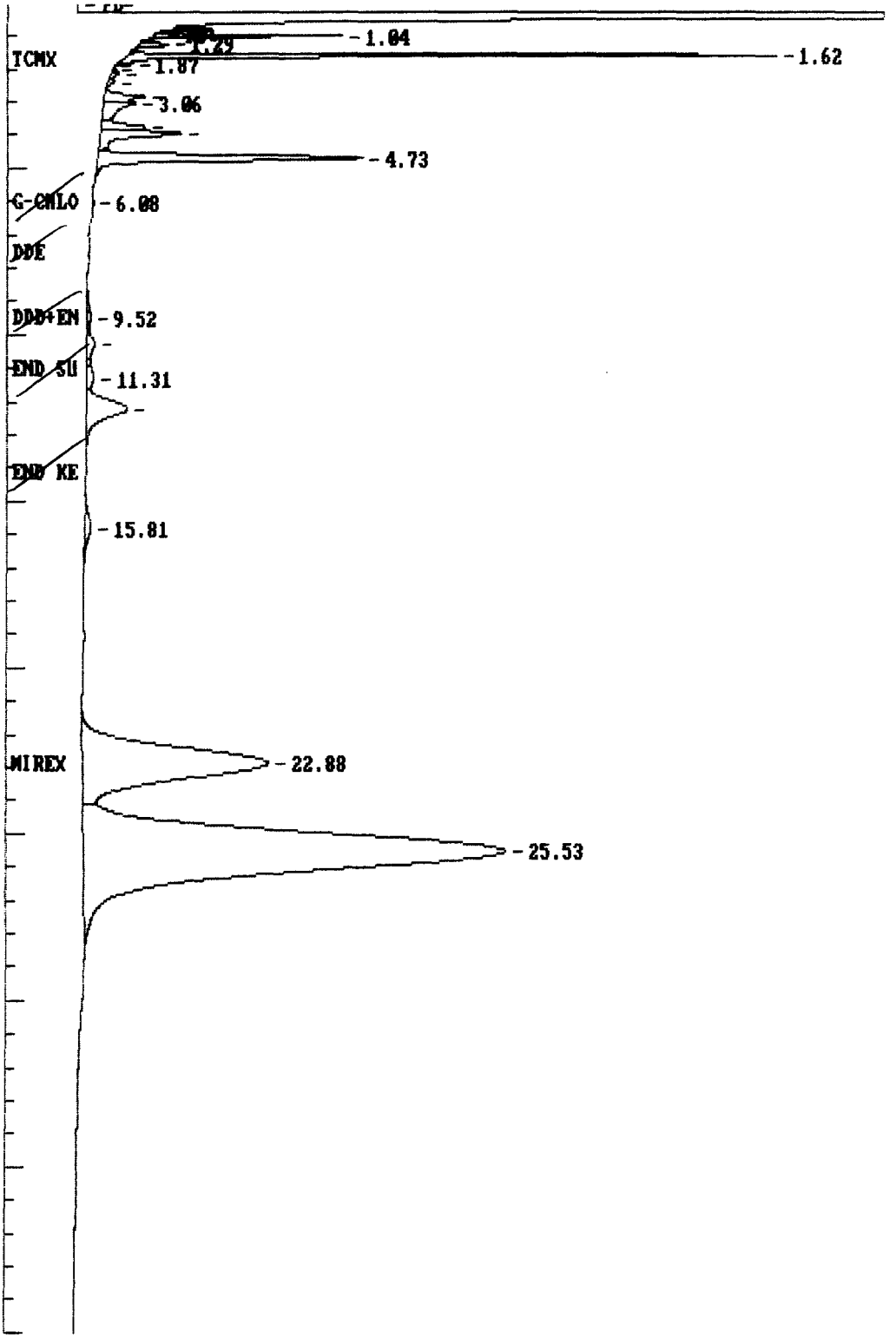
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-CHLOR	6.60	MIREX
DDE	7.50	MIREX
END KETONE	14.14	MIREX

11/6/90

SECONDARY COLUMN

Data File = W:1MAG30.PTS Printed on 11-02-1990 at 11:49:26
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

PRIMARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 10:24:45 Version 4.1 **********

* Sample Name: 91FF27D49 SF 7452 Data File: W:2MAG32 *
* Date: 11-01-1990 10:09:56 Method: W:2PESTAR 10-31-1990 14:14:23 # 128*
* Interface: 0 Cycle#: 32 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANT~~ CONF Detector 1: ECD ~~CONF~~ QUANT *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.050000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
RT ~~6~~	~~2.02~~	~~A-BHC~~	~~0.0015~~	~~0.0107%~~	~~3167~~	~~506~~	~~6.3~~	~~1~~	~~25~~	~~-2.890~~	~~4.8003E-07~~
RT ~~10~~	~~3.24~~	~~HEPT~~	~~0.0027~~	~~0.0193%~~	~~22793~~	~~1496~~	~~15.2~~	~~1~~	~~25~~	~~1.497~~	~~1.2023E-07~~
~~12~~	~~4.01~~	~~ALDRIN~~	~~0.0035~~	~~0.0245%~~	~~2538~~	~~311~~	~~8.2~~	~~1~~	~~25~~	~~.7772~~	~~1.3710E-06~~
~~17~~	~~7.30~~	~~ENDO I~~	~~0.0505~~	~~0.3554%~~	~~302052~~	~~16047~~	~~23.0~~	~~2~~	~~25~~	~~-2.708~~	~~1.3224E-07~~
BL ~~19~~	~~9.02~~	~~DIELDRIN~~	~~0.0121~~	~~0.0851%~~	~~78110~~	~~1648~~	~~47.4~~	~~2~~	~~25~~	~~1.576~~	~~1.5498E-07~~
~~21~~	~~10.79~~	~~ENDRIN~~	~~0.0161~~	~~0.1133%~~	14875	570	26.1	1	25	-2.740	1.0827E-06
~~23~~	~~13.18~~	~~ENDOII~~	~~0.0142~~	~~0.1002%~~	~~20806~~	~~646~~	~~32.2~~	~~2~~	~~25~~	~~-1.604~~	~~6.8456E-07~~
25	24.23	MIREX	~~11.6722~~	82.1012%	2433516	38829	62.7	1	25	0	4.7964E-06
~~26~~	~~29.61~~	~~METHOXYCHLOR~~	~~2.4439~~	~~17.1904%~~	~~10664953~~	~~134680~~	~~79.2~~	~~1~~	~~25~~	~~-2.731~~	~~2.2916E-07~~

TOTAL AMOUNT = 14.2169

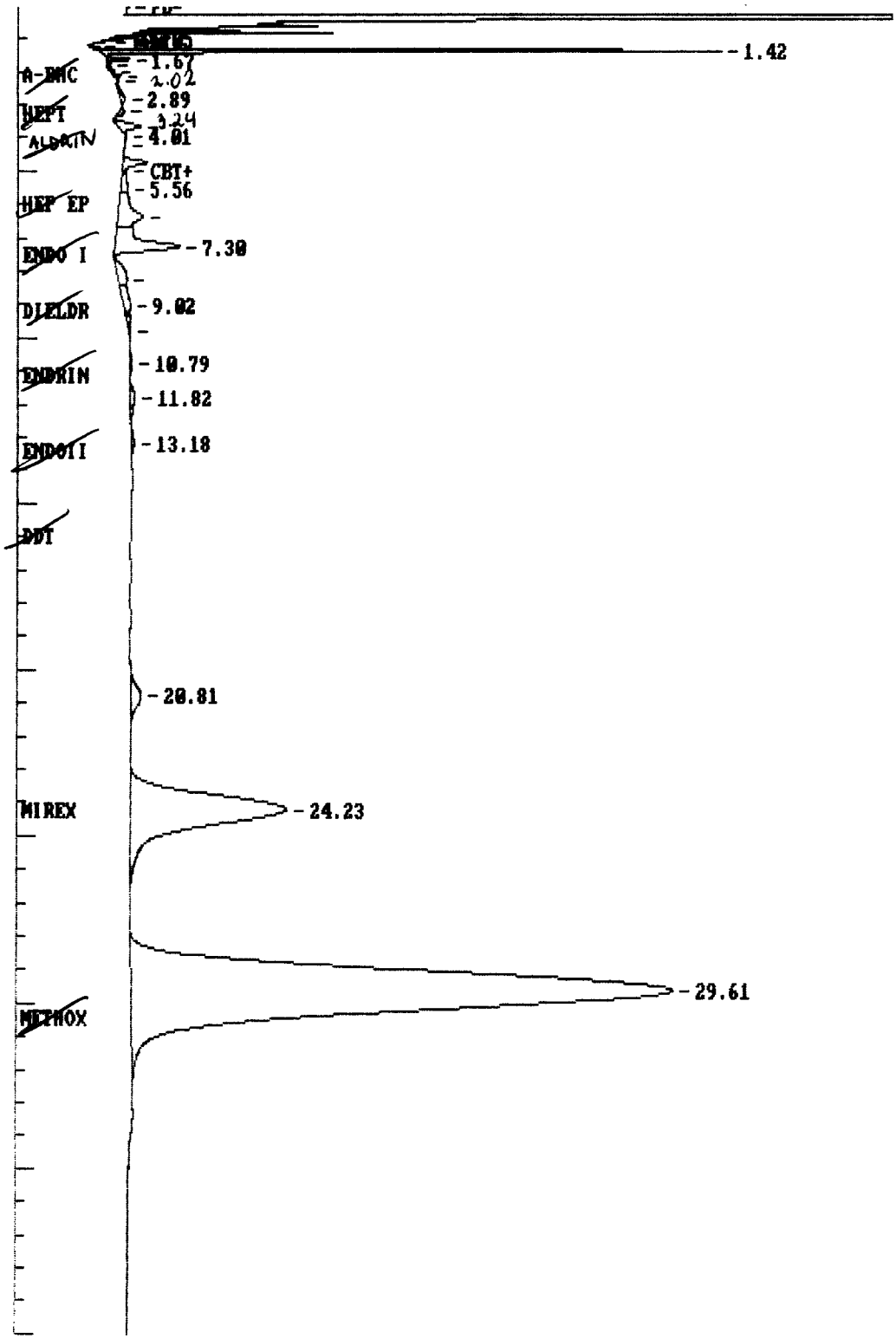
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
LINDANE	2.63	MIREX
HEP EPOX	5.96	MIREX
DDT	15.99	MIREX

DKC 11/5/90

PRIMARY COLUMN

Data File = W:2MAG32.PTS Printed on 11-02-1990 at 10:25:07
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



11/6/90

DKC
11/5/90

PRIMARY COLUMN

```
*****  EXTERNAL  STANDARD  TABLE  *****
******************** 11-02-1990 10:43:15 Version 4.1 **********************
* Sample Name: 91FF27D49 SF 7452                    Data File: W:2MAG32      *
* Date: 11-01-1990 10:09:56 Method: W:2PESTBR  10-31-1990 14:25:13  #  211*
* Interface: 0   Cycle#:  32   Operator DKC Channel#: 1    Vial#: N.A.      *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100              *
*****************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS          *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                      *
*             Detector 0: ECD QUANT CONF          Detector 1: ECD CONF QUANT *
* Misc. Information: PRIMARY COLUMN                   PERFORMANCE EVA        *
*****************************************************************************
Starting Delay:    0.00                  Ending retention time:   40.00
Area reject:         0                   One sample per   1.002 sec.
Amount injected:         1.00            Dilution factor:       10.00
Sample Weight:           1.050000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.42	TCMX	0.0690	0.5556%	637841	155748	4.1	3	22	1.273	1.0820E-07
RT ~~6~~	~~2.89~~	~~B-BHC~~	~~0.0016~~	~~0.0132%~~	~~19721~~	~~1136~~	~~17.4~~	~~2~~	~~22~~	~~3.700~~	~~8.3163E-08~~
RT ~~8~~	~~3.69~~	~~D-BHC~~	~~0.0141~~	~~0.1137%~~	~~106434~~	~~6974~~	~~15.3~~	~~2~~	~~22~~	~~5.610~~	~~1.3272E-07~~
RT ~~13~~	~~6.40~~	~~G CHLORDANE~~	~~0.0347~~	~~0.2796%~~	~~304528~~	~~7352~~	~~41.4~~	~~2~~	~~22~~	~~3.478~~	~~1.1404E-07~~
RT ~~14~~	~~7.30~~	~~A CHLORDANE~~	~~0.0441~~	~~0.3552%~~	~~404423~~	~~16311~~	~~24.8~~	~~2~~	~~22~~	~~.8478~~	~~1.0911E-07~~
RT ~~16~~	~~9.02~~	~~DDE~~	~~0.0131~~	~~0.1057%~~	~~78110~~	~~1648~~	~~47.4~~	~~2~~	~~22~~	~~4.005~~	~~1.6812E-07~~
RT ~~20~~	~~13.18~~	~~DDD~~	~~0.0057~~	~~0.0459%~~	~~20806~~	~~646~~	~~32.2~~	~~2~~	~~22~~	~~-.4568~~	~~2.7375E-07~~
RT ~~21~~	~~20.81~~	~~END SULFATE~~	~~0.0102~~	~~0.0818%~~	~~126126~~	~~2683~~	~~47.0~~	~~1~~	~~22~~	~~-1.841~~	~~8.0557E-08~~
22	24.23	MIREX	10.9206	87.9180%	2433516	38829	62.7	1	22	0	4.4876E-06
RT ~~23~~	~~29.61~~	~~END KETONE~~	~~1.3114~~	~~10.5576%~~	~~10664953~~	~~134680~~	~~79.2~~	~~1~~	~~22~~	~~3.230~~	~~1.2296E-07~~

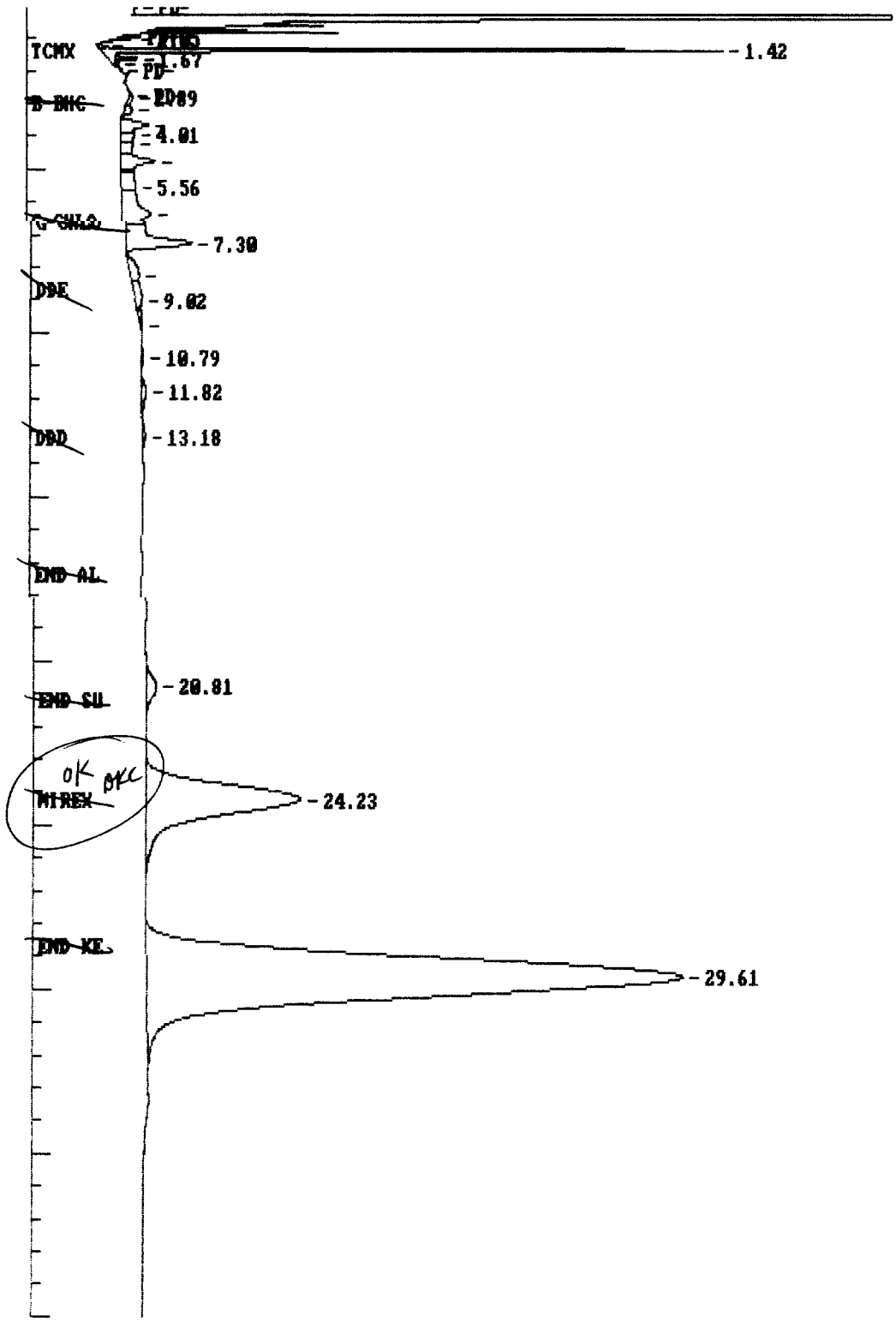
TOTAL AMOUNT = 12.4214

```
  PEAKS NOT FOUND IN THIS RUN
NAME                 ADJUSTED RET.TIME.   REFERENCE PEAK
END ALDEHYDE               17.39             MIREX
```

DKC 11/5/90

PRIMARY COLUMN

Data File = W:2MAG32.PTS Printed on 11-02-1990 at 10:43:37
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



KM
11/5/90

SECONDARY COLUMN

```
******   EXTERNAL STANDARD TABLE   ******
******************** 11-02-1990 11:37:32 Version 4.1 **********************
* Sample Name: 91FF27D49 SF 7452                    Data File: W:1MAG31      *
* Date: 11-01-1990 10:07:53 Method: W:1PESTA1  11-01-1990 10:58:37  #  156*
* Interface: 0   Cycle#:  31   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*           Detector 0: ECD QUANTCONF        Detector 1: ECD CONFQUANT     *
* Misc. Information: PERFORMANCE EVALUATION              LPT1:          *  *
*************************************************************************
Starting Delay:    0.00                        Ending retention time:    40.00
Area reject:        0                          One sample per    1.002 sec.
Amount injected:        1.00                   Dilution factor:       10.00
Sample Weight:          1.050000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~5~~	~~2.15~~	~~LINDANE~~	~~0.0056~~	~~0.0509%~~	~~5702~~	~~663~~	~~8.6~~	~~2~~	~~18~~	~~-1.776~~	~~9.9036E-07~~
~~9~~	~~5.02~~	~~HEP EPOX~~	~~0.0045~~	~~0.0407%~~	~~1661~~	~~175~~	~~9.5~~	~~2~~	~~18~~	~~-2.637~~	~~2.7190E-06~~
~~11~~	~~7.28~~	~~DIELDRIN~~	~~0.0102~~	~~0.0919%~~	~~2383~~	~~169~~	~~14.1~~	~~1~~	~~18~~	~~-3.796~~	~~4.2790E-06~~
~~16~~	~~12.19~~	~~DDT~~	~~0.0396~~	~~0.3571%~~	~~245873~~	~~6420~~	~~38.3~~	~~2~~	~~18~~	~~-1.003~~	~~1.6113E-07~~
18	22.80	MIREX	~~11.0340~~	99.4594%	2940717	45160	65.1	2	18	0	3.7521E-06

TOTAL AMOUNT = 11.0940

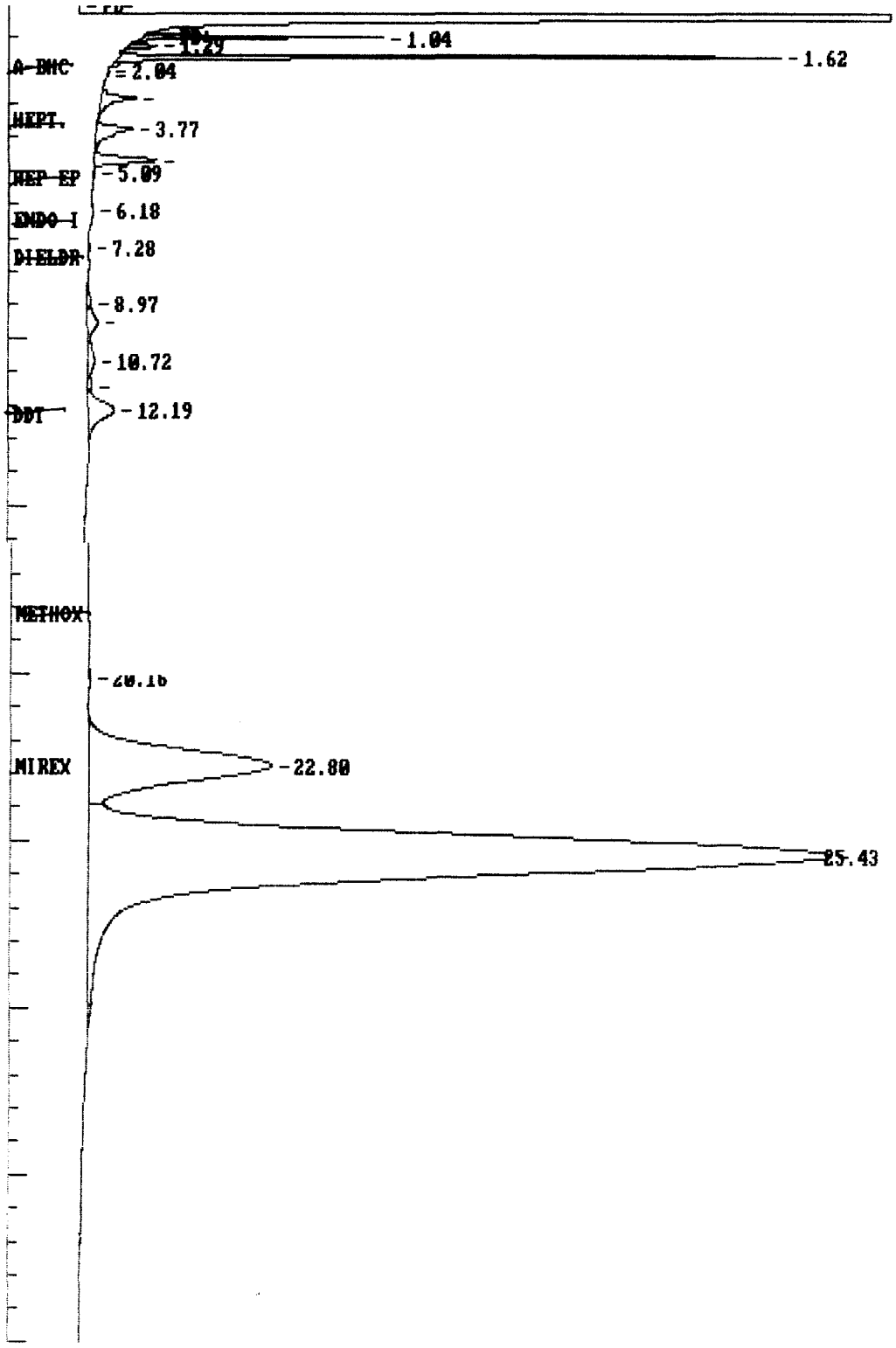
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	1.87	MIREX
HEPT.	3.49	MIREX
ALDRIN	4.31	MIREX
ENDO I	6.51	MIREX
EN + EN II	8.54	MIREX
METHOXYCHLOR	18.18	MIREX

KM
11/5/90

SECONDARY COLUMN

Data File = W:1MAG31.PTS Printed on 11-02-1990 at 11:37:52
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VCM
11/5/90

SECONDARY COLUMN

```
****** EXTERNAL STANDARD TABLE ******
******************** 11-02-1990 11:50:22 Version 4.1 **********************
* Sample Name: 91FF27D49 SF 7452                Data File: W:1MAG31        *
* Date: 11-01-1990 10:07:53 Method: W:1PESTB1  11-01-1990 11:33:53  #  156*
* Interface: 0   Cycle#:  31   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD QUANTCONF        Detector 1: ECD CONFQUANT    *
* Misc. Information: PERFORMANCE EVALUATION              LPT1:        *   *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    40.00
Area reject:        0                      One sample per    1.002 sec.
Amount injected:        1.00               Dilution factor:       10.00
Sample Weight:          1.050000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.62	TCMX	0.0655	0.6265%	801634	163224	4.9	1	18	-3.384	8.1726E-08
RT ~~4~~	~~2.04~~	~~B-BHC~~	~~0.0012~~	~~0.0118%~~	~~1939~~	~~414~~	~~4.7~~	~~2~~	~~18~~	~~3.708~~	~~6.3480E-07~~
NC ~~5~~	~~2.15~~	~~D-BHC~~	~~0.0141~~	~~0.1352%~~	~~5702~~	~~663~~	~~8.6~~	~~2~~	~~18~~	~~-2.897~~	~~2.4790E-06~~
RT ~~10~~	~~6.18~~	~~G-CHLOR~~	~~0.0045~~	~~0.0430%~~	~~4880~~	~~282~~	~~17.3~~	~~1~~	~~18~~	~~3.945~~	~~9.2245E-07~~
RT ~~11~~	~~7.28~~	~~DDE~~	~~0.0116~~	~~0.1112%~~	~~2383~~	~~169~~	~~14.1~~	~~1~~	~~18~~	~~-2.509~~	~~4.8787E-06~~
RT ~~13~~	~~9.55~~	~~DDD+END ALD~~	~~0.0403~~	~~0.3852%~~	~~90414~~	~~2374~~	~~38.1~~	~~2~~	~~18~~	~~1.628~~	~~4.4556E-07~~
RT ~~14~~	~~10.72~~	~~END SULFATE~~	~~0.0361~~	~~0.3452%~~	~~75922~~	~~1595~~	~~47.6~~	~~2~~	~~18~~	~~-2.304~~	~~4.7546E-07~~
18	22.80	MIREX	~~10.2840~~	98.3419%	2940717	45160	65.1	2	18	0	3.4971E-06

TOTAL AMOUNT = 10.4574

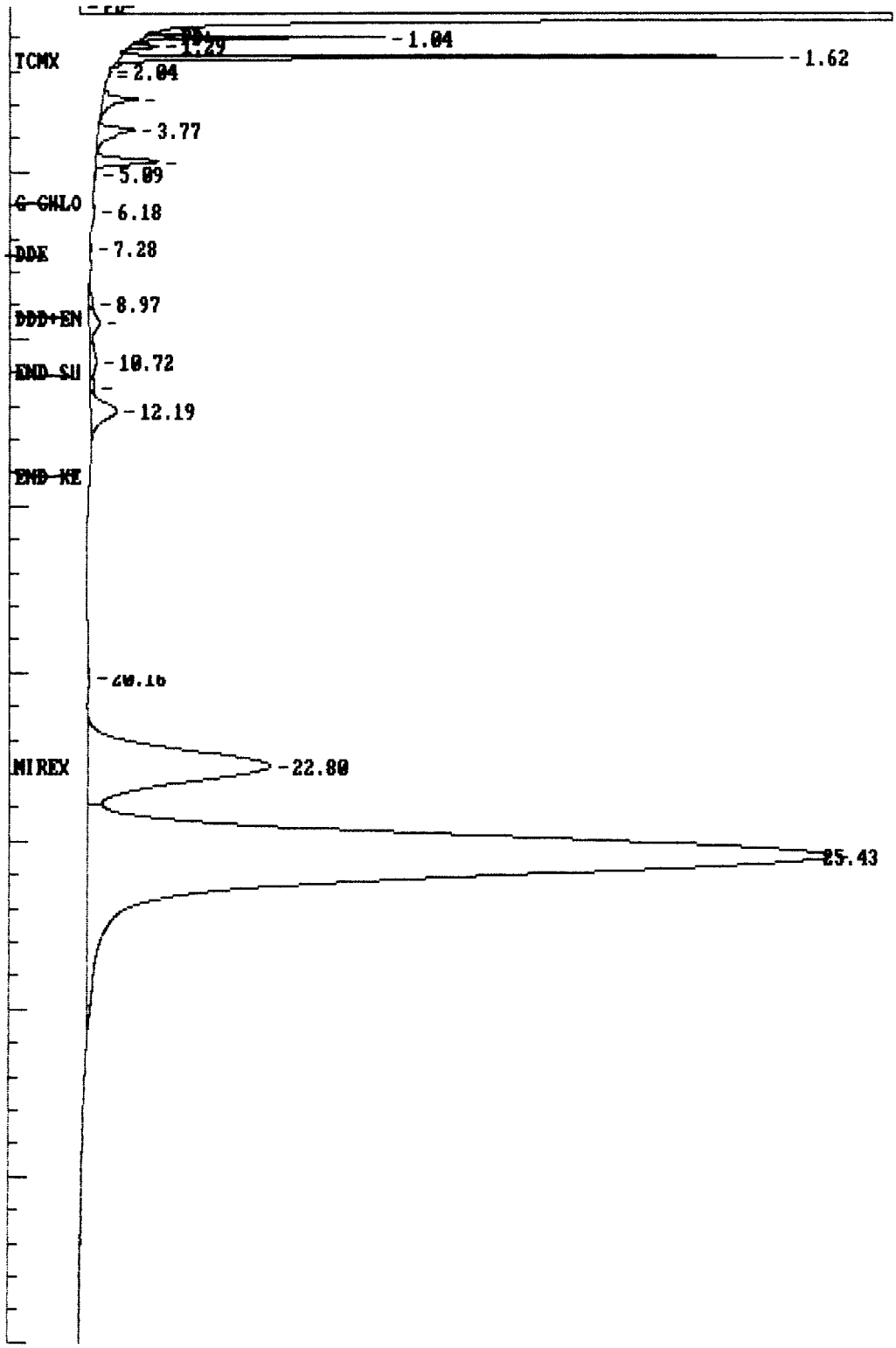
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-CHLOR	6.57	MIREX
END KETONE	14.09	MIREX

KM
11/5/90

SECONDARY COLUMN

Data File = W:1MAG31.PTS Printed on 11-02-1990 at 11:50:44
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



VCM
11/5/90

PRIMARY COLUMN

***** EXTERNAL STANDARD TABLE *****

********** 11-02-1990 10:26:07 Version 4.1 **********

* Sample Name: 91FF27S50 SF 7452 Data File: W:2MAG33 *
* Date: 11-01-1990 10:12:03 Method: W:2PESTAR 10-31-1990 14:14:23 # 128*
* Interface: 0 Cycle#: 33 Operator DKC Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PRIMARY COLUMN~~ ~~PERFORMANCE EVA~~ *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.055000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~10~~	~~3.26~~	~~HEPT~~	~~0.0004~~	~~0.0026%~~	~~3294~~	~~432~~	~~7.6~~	~~1~~	~~27~~	~~-.9218~~	~~1.3308E-07~~
~~13~~	~~4.02~~	~~ALDRIN~~	~~0.0046~~	~~0.0272%~~	~~11534~~	~~777~~	~~14.8~~	~~1~~	~~27~~	~~1.266~~	~~4.0040E-07~~
~~16~~	~~6.18~~	~~HEP EPOX~~	~~0.0083~~	~~0.0487%~~	~~71133~~	~~3072~~	~~23.2~~	~~2~~	~~27~~	~~3.794~~	~~1.1691E-07~~
17	~~7.28~~	~~ENDO I~~	~~0.0491~~	~~0.2891%~~	~~373705~~	~~13397~~	~~27.9~~	~~2~~	~~27~~	~~2.864~~	~~1.3147E-07~~
~~18~~	~~9.08~~	~~DIELDRIN~~	~~0.0410~~	~~0.2412%~~	~~296033~~	~~2266~~	~~130.7~~	~~2~~	~~27~~	~~.7705~~	~~1.3051E-07~~
~~20~~	~~10.69~~	~~ENDRIN~~	~~0.0275~~	~~0.1618%~~	~~73764~~	~~2731~~	~~27.0~~	~~1~~	~~27~~	~~3.577~~	~~3.7284E-07~~
~~23~~	~~13.94~~	~~ENDOII~~	~~0.0147~~	~~0.0867%~~	~~25369~~	~~207~~	~~122.4~~	~~1~~	~~27~~	~~4.203~~	~~5.8089E-07~~
~~24~~	~~15.80~~	~~DDT~~	~~0.0196~~	~~0.1150%~~	~~3344~~	~~126~~	~~26.4~~	~~1~~	~~27~~	~~1.145~~	~~5.8470E-06~~
27	24.21	MIREX	~~11.2117~~	65.9606%	2348632	38461	61.1	1	27	0	4.7737E-06
~~28~~	~~29.58~~	~~METHOXYCHLOR~~	~~5.6206~~	~~33.0669%~~	~~24642994~~	~~293875~~	~~83.9~~	~~3~~	~~27~~	~~2.774~~	~~2.2808E-07~~

TOTAL AMOUNT = 16.9975

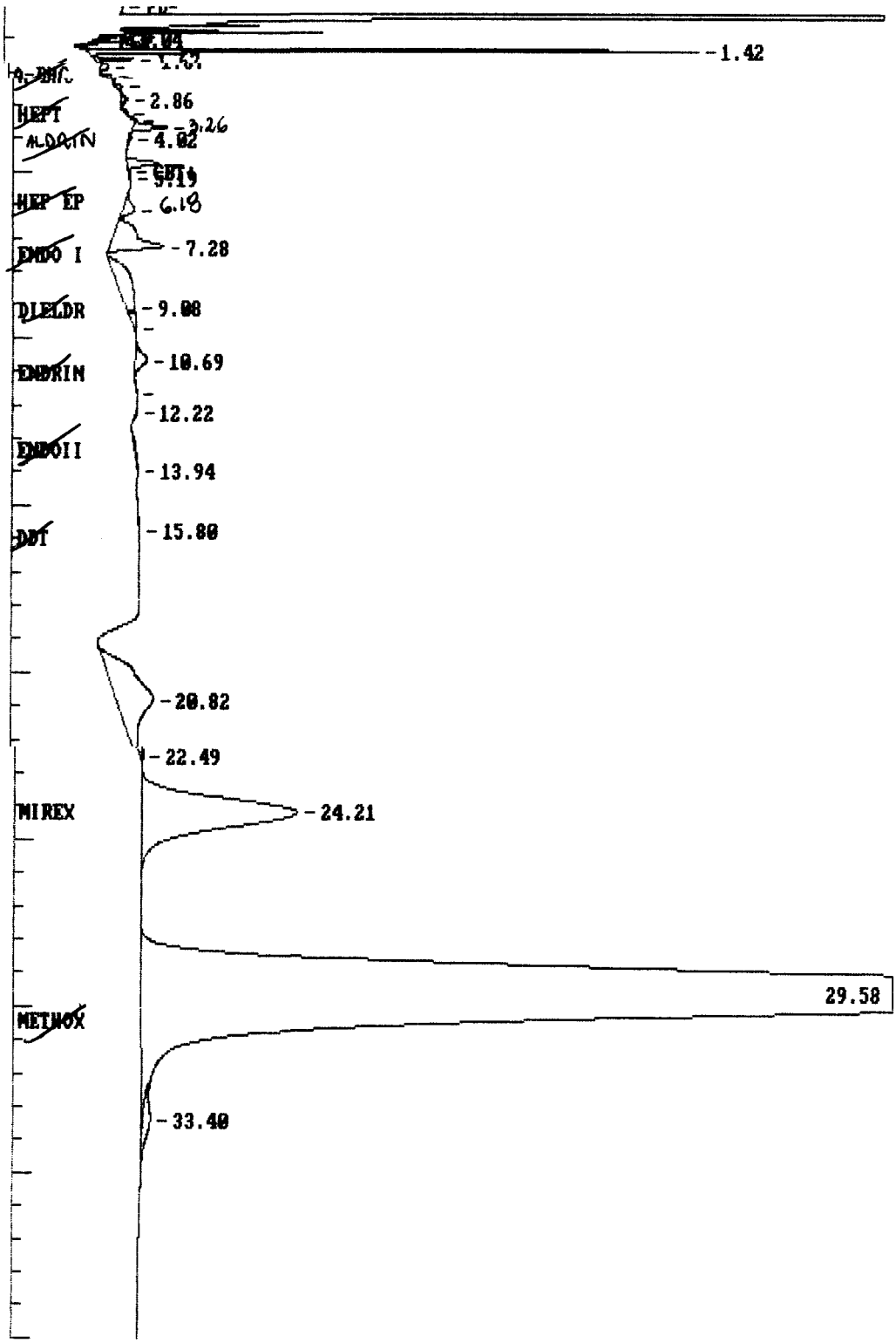
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-BHC	2.08	MIREX
LINDANE	2.63	MIREX

DKC 11/5/90

PRIMARY COLUMN

Data File = W:2MAG33.PTS Printed on 11-02-1990 at 10:26:30
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



PRIMARY COLUMN

```
****** EXTERNAL STANDARD TABLE ******
******************** 11-02-1990 10:44:37 Version 4.1 **********************
* Sample Name: 91FF27S50 SF 7452                Data File: W:2MAG33        *
* Date: 11-01-1990 10:12:03 Method: W:2PESTBR  10-31-1990 14:25:13  #  211*
* Interface: 0   Cycle#:  33   Operator DKC Channel#: 1    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD ~~QUANTCONF~~        Detector 1: ECD ~~CONFQUANT~~  *
* Misc. Information: ~~PRIMARY COLUMN~~                  ~~PERFORMANCE EVA~~  *
*************************************************************************
Starting Delay:    0.00                      Ending retention time:    40.00
Area reject:        0                        One sample per   1.002 sec.
Amount injected:        1.00                 Dilution factor:       10.00
Sample Weight:          1.055000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	1.42	TCMX	0.0646	0.4683%	599477	152316	3.9	2	25	1.343	1.0769E-07
RT ~~7~~	~~2.86~~	~~B-BHC~~	~~0.0030~~	~~0.0221%~~	~~13222~~	~~1324~~	~~10.0~~	~~1~~	~~25~~	~~4.748~~	~~2.3001E-07~~
RT ~~9~~	~~3.46~~	~~D-BHC~~	~~0.0050~~	~~0.0361%~~	~~32656~~	~~3481~~	~~9.4~~	~~2~~	~~25~~	~~-1.011~~	~~1.5236E-07~~
RT ~~15~~	~~7.28~~	~~A-CHLORDANE~~	~~0.0404~~	~~0.2930%~~	~~373705~~	~~13399~~	~~27.9~~	~~2~~	~~25~~	~~.6865~~	~~1.0808E-07~~
RT ~~16~~	~~7.88~~	~~DDE~~	~~0.0446~~	~~0.3237%~~	~~296033~~	~~2266~~	~~130.7~~	~~2~~	~~25~~	~~4.848~~	~~1.5072E-07~~
RT ~~21~~	~~13.94~~	~~DDD~~	~~0.0064~~	~~0.0464%~~	~~25369~~	~~207~~	~~122.4~~	~~1~~	~~25~~	~~5.419~~	~~2.5225E-07~~
RT ~~23~~	~~20.82~~	~~END SULFATE~~	~~0.1231~~	~~0.8930%~~	~~891701~~	~~9054~~	~~98.5~~	~~3~~	~~25~~	~~-1.695~~	~~1.3806E-07~~
25	24.21	MIREX	~~10.4897~~	76.0915%	2348632	38461	61.1	1	25	0	4.4663E-06
RT ~~26~~	~~29.58~~	~~END KETONE~~	~~3.0150~~	~~21.8702%~~	~~24642994~~	~~293875~~	~~83.9~~	~~3~~	~~25~~	~~3.185~~	~~1.2235E-07~~

TOTAL AMOUNT = 13.7857

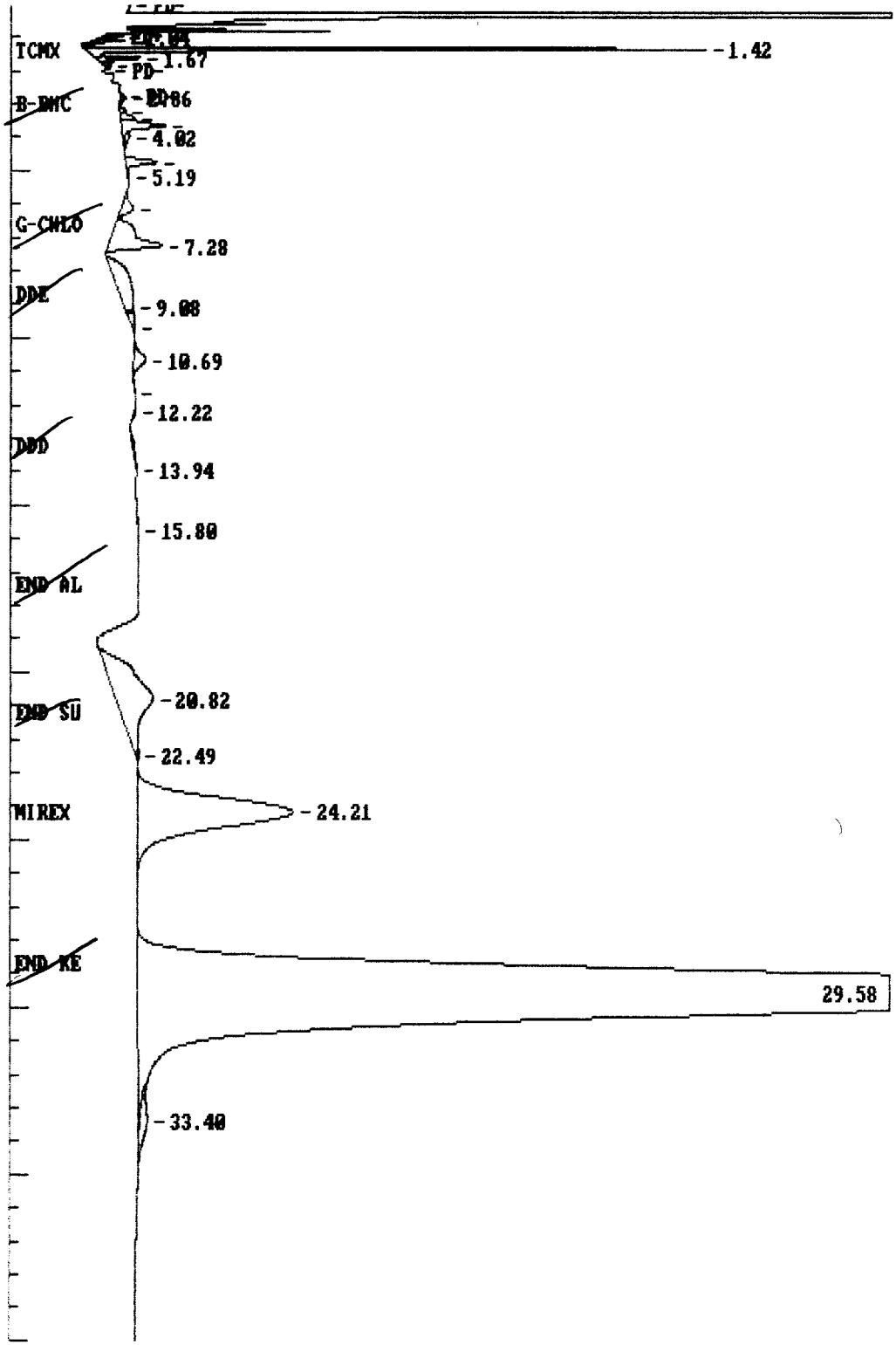
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
G-CHLORDANE	6.62	MIREX
END ALDEHYDE	17.38	MIREX

DKC 11/5/90

PRIMARY COLUMN

Data File = W:2MAG33.PTS Printed on 11-02-1990 at 10:44:59
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



DKC
11/5/90

SECONDARY COLUMN

EXTERNAL STANDARD TABLE

********** 11-02-1990 11:38:50 Version 4.1 **********

* Sample Name: 91FF27S50 SF 7452 Data File: W:1MAG32 *
* Date: 11-01-1990 10:09:57 Method: W:1PESTA1 11-01-1990 10:58:37 # 156*
* Interface: 0 Cycle#: 32 Operator DKC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #2 Column Type: PACKED COLUMNS *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD ~~QUANTCONF~~ Detector 1: ECD ~~CONFQUANT~~ *
* Misc. Information: ~~PERFORMANCE EVALUATION~~ LPT1: * *

****

Starting Delay: 0.00 Ending retention time: 40.00
Area reject: 0 One sample per 1.002 sec.
Amount injected: 1.00 Dilution factor: 10.00
Sample Weight: 1.055000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
~~5~~	~~1.87~~	~~A BHC~~	~~0.0099~~	~~0.0902%~~	~~33445~~	~~5158~~	~~6.5~~	~~2~~	~~23~~	~~.4072~~	~~2.9665E-07~~
~~6~~	~~2.14~~	~~LINDANE~~	~~0.0057~~	~~0.0515%~~	~~6191~~	~~828~~	~~7.5~~	~~1~~	~~23~~	~~-2.179~~	~~9.1511E-07~~
~~9~~	~~3.42~~	~~HEPT.~~	~~0.0011~~	~~0.0101%~~	~~3178~~	~~386~~	~~8.2~~	~~2~~	~~23~~	~~1.478~~	~~3.4820E-07~~
~~12~~	~~5.41~~	~~HEP EPOX~~	~~0.0093~~	~~0.0841%~~	~~47258~~	~~1441~~	~~32.8~~	~~4~~	~~23~~	~~3.808~~	~~1.9574E-07~~
~~14~~	~~7.35~~	~~DIELDRIN~~	~~0.0099~~	~~0.0899%~~	~~0~~	~~139~~	~~0.0~~	~~4~~	~~23~~	~~-2.556~~	~~1.1758E-08~~
~~16~~	~~8.25~~	~~EN + EN II~~	~~0.0296~~	~~0.2693%~~	~~1775~~	~~136~~	~~13.0~~	~~4~~	~~23~~	~~-3.035~~	~~1.6685E-05~~
~~19~~	~~12.14~~	~~DDT~~	~~0.0480~~	~~0.4367%~~	~~312644~~	~~7678~~	~~40.7~~	~~3~~	~~23~~	~~-1.048~~	~~1.5366E-07~~
23	22.71	MIREX	~~10.8827~~	98.9681%	2914209	44076	66.1	2	23	0	3.7344E-06

TOTAL AMOUNT = 10.9962

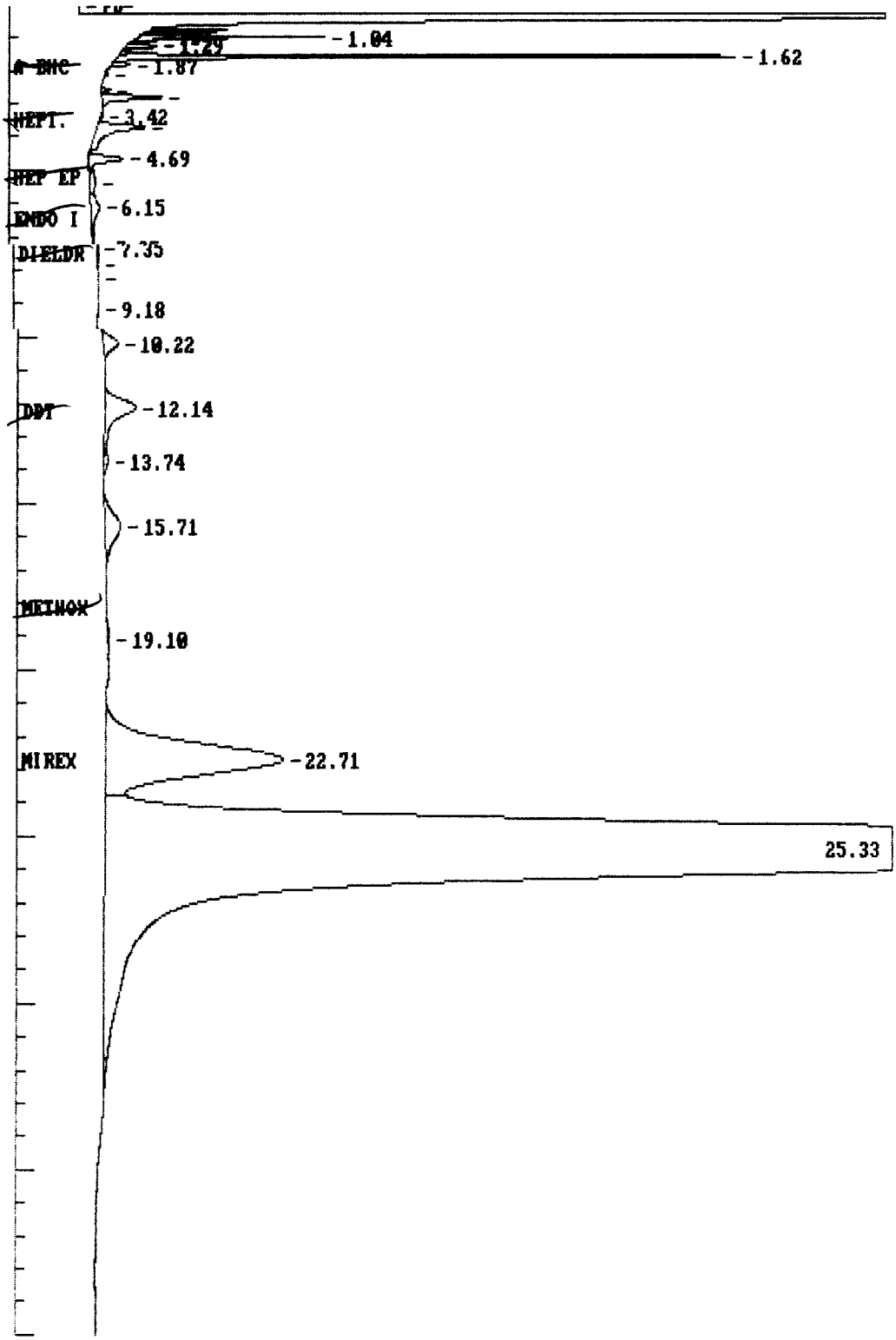
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALDRIN	4.30	MIREX
ENDO I	6.48	MIREX
METHOXYCHLOR	18.11	MIREX

DKC 11/5/90

SECONDARY COLUMN

Data File = W:1MAG32.PTS Printed on 11-02-1990 at 11:39:11
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



DKC
11/5/90

SECONDARY COLUMN

```
*****    EXTERNAL  STANDARD  TABLE    *****
******************** 11-02-1990 11:51:41 Version 4.1 **********************
* Sample Name: 91FF27S50 SF 7452                  Data File: W:1MAG32       *
* Date: 11-01-1990 10:09:57 Method: W:1PESTB1  11-01-1990 11:33:53  #  156*
* Interface: 0   Cycle#:  32   Operator DKC Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
****************************************************************************
* Instrument Type: HP 5890A #2          Column Type: PACKED COLUMNS        *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD QUANT CONF        Detector 1: ECD CONF QUANT  *
* Misc. Information: PERFORMANCE EVALUATION             LPT1:          *   *
****************************************************************************
Starting Delay:   0.00                      Ending retention time:   40.00
Area reject:         0                      One sample per   1.002 sec.
Amount injected:        1.00                Dilution factor:       10.00
Sample Weight:          1.055000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	1.62	TCMX	0.0599	0.5811%	736577	153266	4.8	2	23	-3.028	8.1339E-08
RT ~~5~~	~~1.87~~	~~D-BHC~~	~~0.0063~~	~~0.0611%~~	~~33445~~	~~5150~~	~~6.5~~	~~2~~	~~23~~	~~4.442~~	~~1.8847E-07~~
NC ~~6~~	~~2.14~~	~~D-BHC~~	~~0.0141~~	~~0.1369%~~	~~6191~~	~~828~~	~~7.5~~	~~1~~	~~23~~	~~3.295~~	~~2.2797E-06~~
RT ~~13~~	~~6.15~~	~~G-CHLOR~~	~~0.0139~~	~~0.1348%~~	~~102957~~	~~2225~~	~~46.3~~	~~3~~	~~23~~	~~3.764~~	~~1.3502E-07~~
RT ~~14~~	~~7.35~~	~~DDE~~	~~0.0113~~	~~0.1094%~~	~~0~~	~~-139~~	~~0.0~~	~~4~~	~~23~~	~~1.253~~	~~1.2757E-08~~
RT ~~17~~	~~9.10~~	~~DDD+END ALD~~	~~0.0295~~	~~0.2857%~~	~~5896~~	~~289~~	~~20.4~~	~~1~~	~~23~~	~~1.921~~	~~4.9957E-06~~
RT ~~20~~	~~13.74~~	~~END KETONE~~	~~0.0320~~	~~0.3107%~~	~~32663~~	~~912~~	~~35.8~~	~~4~~	~~23~~	~~-2.100~~	~~9.8060E-07~~
23	22.71	MIREX	~~10.1430~~	98.3803%	2914209	44076	66.1	2	23	0	3.4805E-06

TOTAL AMOUNT = 10.3100

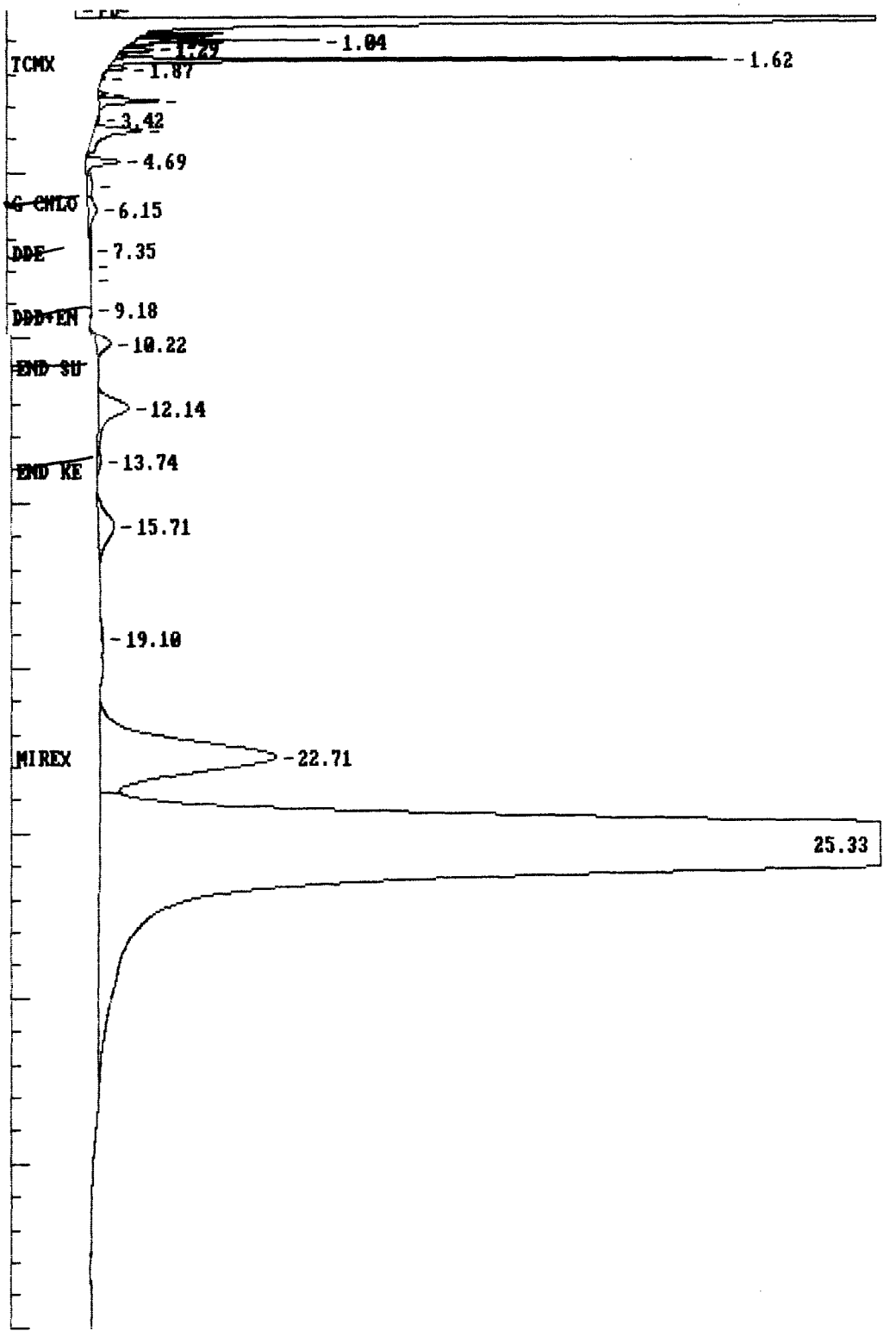
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A-CHLOR	6.55	MIREX
END SULFATE	10.93	MIREX

DKC 11/5/90

SECONDARY COLUMN

Data File = W:1MAG32.PTS Printed on 11-02-1990 at 11:52:02
Start time: 0.00 min. Stop time: 40.01 min. Offset: 0 mv.
Full Range: 200 millivolts



DKC
11/5/90