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

X Sample tags

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

___ Resolution / Contrast

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

X Mail receipts

___ Sample tags

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

___ Resolution / Contrast

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: FMN0237
PROJECT NAME: PEERLESS CHAIN / case 14503 / SAS N/A
SAMPLERS: (Signature) Stan Senger

Cooler #653
Supply 7262

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Non Pest/PCB = 1 Liter Amber	VOA (HCl) = 40ml vial					TAG numbers	REMARKS / MATRIX
														Low Concen.
T20553	7/11/90	1005		X	RW1 + MSD	16	8	8					5-089104→119	drk. water
													Lot #: 1 l Amber	0068013
													40ml vial	B0114033
													(CRL TRACKING FORMS in Cooler #653)	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Stan Senger	7-11-90 1500	William Senger Jr.			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) William Senger	Date / Time 7/12/90 12:07pm	Remarks Shipped Fed. Ex. to CRL AIRBILL # 7315419774 Custody seals 128521, 128522	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

5- 08809

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	Case	SAS
FMN0237	PEERLESS CHAIN	14503	N/A

SAMPLERS: (Signature) Stan Senge

Cooler # 62
Supervisor 7262

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Metals (HNO_3) 1 l. poly	CN^- ($NaOH$) 1 l. poly	Hg ($K_2Cr_2O_7 \cdot HNO_3$) 500 ml. poly				REMARKS TAG #s	Low Concent. MATRIX SS
T20S53	7/11/90	1005		X	RW1	3	1	1	1				~~5-008~~ SS 5-089101, 102, 103	drk. water
T20S54	7/11/90	0900		X	RW2	3	1	1	1				5-089120, 121, 122	drk. water
T20D54	7/11/90	0900		X	Dup	3	1	1	1				5-089129, 130, 131	drk. water
T02R95	7/11/90	1040		X	BLANK	3	1	1	1				5-089138, 139, 140	drk. water

LOT #: 1 l. poly 0127013

(CRL TRACKING FORMS IN COOLER #653)

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Stan Senge	7-11-90 1500	William Sanz Jr.			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		William Sanz Jr.	7/12/90 12:07pm	Shipped Fed. Ex. to CRL AIRBILL # 7375419774 Custody Seals 128525, 128526	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

5- 08811

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	CASE	SAS
FMN0237	PEERLESS CHAIN	14503	N/A

SAMPLERS: (Signature) Stan Sauge

Cooler # 300
Superfund 7262

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	ABN	PEST/PCB	VOA (HCl) = 40 ml vial				TAG #s	REMARKS Low concent. MATRIX
T20S54	7/11/90	0900		X	RW2	6	3	3					5-089123→128	drk. water
T20D54	7/11/90	0900		X	DUP	6	3	3					5-089132→137	drk. water
T02R95	7/11/90	1040		X	BLANK	6	3	3					5-089141→146	drk water

Lot #s : 1 l. Amber 0068013
40ml. vial B0114033

(CRL TRACKING FORMS IN COOLER # 653)

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Stan Sauge	7-11-90 / 1500	William Sauge Jr.			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		William Sauge Jr.	7/12/90 / 12:07pm	Shipped Fed Ex to CRL AIRBILL # 7375419774 Custody Seals 128523, 128524	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

5- 08810

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

TFA302

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 7/11/90 LAB ARRIVAL DATE 7/12/90 DUE DATE 8/~~1~~2/90

DU NUMBER TFA ~~102~~ DATA SET NUMBER 7262 STUDY PEERLESS CHAIN CO. PRIORITY — CONTRACTOR —

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17564	WATER ABN ORGANICS SCAN UG/L TOX 17574	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
90FT20S53	RW1 + MSD 5-089107-08-0915-089115-119	X			
S54	RW2 5-089126-28	X			
D54	DUP 5-089135-37	X			
90FT02R95	BLANK 5-089144-6	X			
90FT20S53	RW1/MSD 5-089104 5-089110-111		X		
90FT20S54	RW2 5-089123		X		
90FT20D54	DUPLICATE 5-089132		X		
90FT02R95	BLANK 5-089141		X		
	Shipment is Complete				

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

TFA302

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 7/11/90 LAB ARRIVAL DATE 7/12/90 DUE DATE 8/2/90

DU NUMBER IFA DATA SET NUMBER 7262 STUDY PEERLESS CHAIN 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
90FT20S53	RW1 5-089105-6/5-089112-13 + MSD 14		X	X		
S54	RW2 5-089124-125		X	X		
D54	DUP 5-089133-34		X	X		
90FT02R95	BLANK 5-089142-43		X	X		
	Shipment is complete					

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS - NUTRIENTS

TFA302

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 7/11/90 LAB ARRIVAL DATE 7/12/90 DUE DATE 8/12/90

DU NUMBER TFA [redacted] DATA SET NUMBER 7262 STUDY PEERLESS CHAIN CO. PRIORITY — CONTRACTOR —

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER PHENOLICS UG PHENOL/L MIN 74818	WATER CYANIDE UG CN/L MIN 74919	WATER GROSS ALPHA P CI/L MIN 75020	WATER CR^{+6} UG CR^{+6}/L MIN 74616	WATER MERCURY UG HG/L MIN 74717
90FT20S53	RW1 5-089102		X			
S54	RW2 5-089121		X			
D54	DUP 5-089130		X			
90FT02R95	Blank 5-089139		X			
90FT20S53	RW1 5-089103					X
90FT20S54	RW2 5-089122					X
90FT20D54	DUPLICATE 5-089131					X
90FT02R95	BLANK 5-089140					X
Shipment is complete						

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

TFA302

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 7/11/90 LAB ARRIVAL DATE 7/12/90 DUE DATE 8/2/90

DU NUMBER TFA ~~[illegible]~~ DATA SET NUMBER 7262 STUDY PEERLESS CHAIN CO. PRIORITY — CONTRACTOR —

CRL LOG NUMBER	SAMPLE DESCRIPTION	TOTAL METALS WATER Cd UG/L	TOTAL METALS WATER TOTAL ICAP UG/L MET111	TOTAL METALS WATER AS UG/L MET161	TOTAL METALS WATER PB UG/L MET1191	TOTAL METALS WATER SB UG/L MET1201	TOTAL METALS WATER SE UG/L MET1211	TOTAL METALS WATER TL UG/L MET1221
90FT20553	RW15-089101	X	X	X	X	X	X	X
554	RW25-089120	X	X	X	X	X	X	X
D54	DUP5-089129	X	X	X	X	X	X	X
90FT02R95	BLANK 5-089138	X	X	X	X	X	X	X
Shipment is complete								

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: AUG 0 1 1990

SUBJECT: Review of Region 5 data for Peerless Chain

FROM: Curtis Ross, Director for [signature]
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF 7262
Sample Numbers: 90 F720 S53-54 / R95
Parameter(s): CN, Hg
Laboratory: CRL- ESAT

Results Status:

(PP) ~~(X)~~ DATA ACCEPTABLE FOR USE*
(X) DATA QUALIFIED AS TO USE for Hg only; others data is acceptable.
( ) 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 David Payne, the Quality Control Coordinator, at 353-3805.

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)

pg

RECEIVED BY/DATE: .....

Comments:

DATA SET	SITE	DU/ACT.
SF 7262	Peerless chain co	TFA

SAMPLES	PARAMETER(S)
90FT20S53-54/R95	CN, Hg

SAMPLED	RECEIVED	DUE	LAB
7/11/90	7/12/90	8/2/90	CRL-BAT

SHIPPED	DATA RECEIVED	CONTRACT
—	N/A	—

Comments By Reviewer:

The Hg data has some bias in the System. What's causing it, is currently unknown to us.

[signature]
7/30/90

PP 7/30/90
(X) REVIEWED ( ) UNREVIEWED TEAM LEADER/DATE

PP 7/30/90
(X) REVIEWED ( ) UNREVIEWED SECTION CHIEF/DATE

[signature] 7/30/90
(X) REVIEWED ( ) UNREVIEWED QC COORDINATOR/DATE

REVIEWED BY CONTRACT COORDINATOR/DATE

RECEIVED	TRANSMITTED	DATA MANAGEMENT COORDINATOR
8-1-90	8-1-90	[signature]

ESAT CONTRACT **TID NO:** 05900706
TASK NO: 3191

DATASET CUSTODY TRANSFER FORM

Analytical testing was completed on 7-16-90; 18 Hg **,19** 90 **for:**

DATASET NO: 7262 **SITE NAME:** PEERless Chain

PARAMETER : CN / Hg

MATRIX : water **SF DU/ACT NO: TFA** 302 **Y**____ **/C**____

SAMPLE NUMBERS: 90FT 20S53-S54; 90FT 20D54, 90FT 02R95

NUMBER OF SAMPLES: 4

ESAT APPROVALS:

Francis A. Awanya / J. Gary 7.18.90
L. Finkelberg / M. Fletcher 7.18.90
(ANALYST DATE)

D Kruse 7/20/90
(TEAM LEADER DATE)

C Sims Bearden 7/20/90
(QC COORDINATOR DATE)

C. Hersley 7-26-90
(ESAT TEAM MANAGER DATE)

COMMENTS:

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.

J. Gary 7/26/90
(DELIVERED BY DATE)

Howard Phan 7/26/90
(RECEIVED BY DATE)

EPA APPROVALS:

[X] Reviewed
[ ] Unreviewed
[X] Accepted
[ ] Rejected
[ ] Returned/_____
(Date)

[signature] 7/30/90
(EPA TASK MONITOR DATE)

COMMENTS:

[ ] Reviewed [ ] Unreviewed

(SECTION CHIEF DATE)

(ESAT DPO DATE)

Sylvia Griffin 8-1-90 8-1-90
(DATA COORD'R REC'D TRANSMTD)

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

ESAT
OK-88
7/30/90

TFA302

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS - NUTRIENTS

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 7/11/90 LAB ARRIVAL DATE 7/12/90 DUE DATE 8/12/90

DU NUMBER TFA[redacted] DATA SET NUMBER 7262 STUDY PEERLESS CHAIN CO. PRIORITY — CONTRACTOR —

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER PHENOLICS UG PHENOL/L MIN 74818	WATER CYANIDE UG CN/L MIN 74919	WATER GROSS ALPHA P CI/L MIN 75020	WATER CR^{+6} UG CR^{+6}/L MIN 74616	WATER MERCURY UG HG/L MIN 74717
90FT20S53	RW1 5-089102		X 5u			
S54	RW2 5-089121		X 5u			
D54	DUP 5-089130		X 5u			
90FT02R95	Blank 5-089139		X 5u			
90FT20S53	RW1 5-089103					X 0.1u
90FT20S54	RW2 5-089122					X 0.1u
90FT20D54	DUPLICATE 5-089131					X 0.1u
90FT02R95	BLANK 5-089140					X 0.1u
			All samples were analyzed by Auto U/ method 335.3. M. Zeitcher 7/19/90 L. Finkelberg 7/19/90			All Hg results were analyzed ~~by~~ FAA using E.P.A method 245.2* DNS Automated Cold Vapor
Shipment is complete						
					J. Gray 7/18/90	Francis A. Awanye ~~7/18/1990~~ FAA 7/18/90
						7/18/1990

M. Fletcher 7/18/90
7/18/90 L. Finkelberg
L. Finkelberg 7.19.90
7/19/90 mF 7/19/90 M. Fletcher

* REGRESSION ANALYSIS * CSC VERSION 2.00 *

NAME OF ANALYST ---: M.FLETCHER/L.F. DATA SET NUMBER ---: ~~7261~~ 7262
PARAMETER NAME ----: CN DU NUMBER ---------: TFA302
DATE OF ANALYSIS --: ~~07-18-1990~~ mF 7/18/90
7-16-1990

DEGREE OF FIT : 1

EQUATION : CONCENTRATION = -2.94796E-01
+5.99436E-01 * SIGNAL

COEFFICIENT OF DETERMINATION : .9998079

T-A-B-L-E O-F S-T-A-N-D-A-R-D-S

STANDARD	SIGNAL	CONCENTRATION	CALCULATED
1	+0.000	+0.000	-0.295
2	+9.600	+5.000	+5.459
3	+17.000	+10.000	+9.895
4	+42.100	+25.000	+24.941
5	+83.900	+50.000	+49.997

T-A-B-L-E O-F S-A-M-P-L-E-S

SAMPLE I.D.	SIGNAL	CONCENTRATION	LIMITS
BLK	+1.500	+0.604	0 ± 5 ug/L
BLK	+1.000	+0.304	0 ± 5 ug/L
LOW AQC 5	+9.300	+5.279	pos. result req.
HIGH AQC 20	+34.000	+20.086 rec=20;	20 ± 5 ug/L
90FU20S55 SF7261	+1.500	+0.604 5u	
90FU20S56	+1.600	+0.664 5u	
~~90FU20D56 RERUN~~	~~+2.500~~ not used air bubble	~~+1.203~~ mF 7/19/90	
~~90FU02R96 RERUN~~	~~+2.000~~ not used air bubble	~~+0.904~~ mF mF 7/19/90	
90FU20S55 LAB DUPLICATE	+2.500	+1.203 mF 7/19/90	5u
90FT20S53 SF7262	+3.500	+1.803 5u	
90FT20S54	+2.300	+1.083 5u	
90FT20D54	+2.100	+0.964 5u	
90FT02R95	+2.000	+0.904 5u	
90FT20S53 LAB. SPIKE	+36.100	+21.344 rec=21;	20 ± 5 ug/L
BLK	+3.100	+1.563	0 ± 5 ug/L
90FU20D56	+2.500	+1.203 5u	
90FU02~~R95~~ R96 M. Fletcher 7/25/90	+2.200	+1.023 5u	
BLK	+2.500	+1.203	0 ± 5 ug/L
BLK	+3.000	+1.503	0 ± 5 ug/L
LOW AQC 5	+11.000	+6.299	pos. result req.
HIGH AQC 20	+35.000	+20.685 21=rec;	20 ± 5 ug/L
BLK	+3.100	+1.563	0 ± 5 ug/L

7/16/90 M. Fletcher / L. Finkelberg

OFFICE	FILE NO 7.16.90 M. Fletcher 7/19/90 L. Finkelberg 7.19.90
SUBJECT CN	
COMPUTATION CN Auto UV method 335.3 screen SF 7262	
COMPUTED BY M. Fletcher / L.F.	CHECKED BY	DATE 7/16/90	PAGE 1 OF 1 PAGES

(1) Samples	(2)	(3)	(4)	(5) Readings	(6) Conc (ug/L)	(7)	(8) Limits	(9) C/Z screen	(10) Sulfide screen
all PH values > 11									
primer									
primer									
BL									
BL									
0 ug/L	CN STAND			0	-.295				
5				9.60	5.46				
10				17.00	9.90				
25				42.10	24.94				
50				83.90	50.0				
BL				1.5	.601		0 ± 5 ug/L		
BL				1.0	.30		0 ± 5 ug/L		
Low AQC	5			9.3	5.28		positive result req.		
High AQC	20			34.0	20.09	Rec. 20	20 ± 5 ug/L		
L.F. ~~90FU20~~	90FU20S55			1.50	.60			neg.	neg
SF 7261	90FU20S56			1.60	.66				
	90FU20D56			2.5	1.20	not used			
	90FU02R96			2.0	.90	not used			
	90FU20S55 LAB Dupl.			2.5	1.20				
SF 7262	90FT20S53			3.5	1.80			neg	neg
	90FT20S54			2.3	1.08				
	90FT20D54			2.1	.96				
	90FT02R95			2.0	.90				
	90FT20S53 LAB. Spike			36.1	21.34	Rec. 21	20 ± 5 ug/L		
BLK				3.1	1.56		0 ± 5 ug/L		
SF 7261	90FU20D56			2.5	1.20				
	90FU02R95			2.2	1.02				
BLK	~~BL~~ L.F.			2.5	1.20		0 ± 5 ug/L		
BLK				3.0	1.50		0 ± 5 ug/L		
Low AQC	5			11.0	6.30		positive result req.		
High AQC	20			35.0	20.69	Rec. 21	20 ± 5 ug/L		
BLK				3.1	1.56		0 ± 5 ug/L		

CYANIDE AUTO UV METHOD

M. Fletcher 7/19/90

Element: cyanide

Analyst L. Finkelberg / L. Finkelberg 7.19.90

Date 7-16-90

Data Set 7262

Pos	ID	Spike	DF	Comment
1	Prim			
2	Prim			
3	Blank			
4	Blank			
5	Standard 0 ug/l			undistilled
6	Standard 5 ug/l			undistilled
7	Standard 10 ug/l			undistilled
8	Standard 25 ug/l			undistilled
9	Standard 50 ug/l			undistilled
10	Blank			
11	Blank			
12	CS 5 ug/l			undistilled
13	CS 20 ug/l			undistilled
14	SF 7261 90FU20355			
15	56			
16	D56			not used
17	90FU02 R 96			not used.
18	S 55			LAB. Duplicate.
19	SF 7262 90FT20553			
20	S 54			
21	D54			
22	90FT02 R95			
23	S 53			Lab. spike
24	SF 7261 90FU20 D56			
25	90FU02 R95			
26	BLK			
27	BLK			

cn1

CYANIDE AUTO UV METHOD

Element: cyanide

Analyst M. Fletcher 7/19/90 L. Finkelberg 7.18.90

Dat 7/16/90

Data Set 7262

Pos	ID	Spike	DF	Comment
14	Low AGC 5			
15	High AGC 20			
16	BLK			
17		X	X	
18	Blank			
19	Blank			
20	CS 5 ug/l			undistilled
21	CS 20 ug/l			undistilled
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
35				
37				
38				
39				
40				

* REGRESSION ANALYSIS * CSC VERSION 2.00 *

NAME OF ANALYST ---: FAA/JWS DATA SET NUMBER ---: SF7262/~~7261~~ FAA 7/18/90
PARAMETER NAME ----: Hg DU NUMBER ---------: TFA302
DATE OF ANALYSIS --: ~~07-19-1990~~ 7/18/1990c

DEGREE OF FIT : 1

EQUATION : CONCENTRATION = +6.73699E-02
+3.07513E-02 * SIGNAL

COEFFICIENT OF DETERMINATION : .9994129

T-A-B-L-E 2-F S-T-A-N-D-A-R-D-S

STANDARD	SIGNAL	CONCENTRATION ug/L	CALCULATED ug/L
1	+0.000	+0.000	+0.006
2	+15.500	+0.500	+0.483
3	+32.250	+1.000	+0.998
4	+49.500	+1.500	+1.528
5	+64.250	+2.000	+1.982

T-A-B-L-E 3-F S-A-M-P-L-E-S

SAMPLE I.D.	SIGNAL	CONCENTRATION ug/L	
BLANK	+0.000	+0.006	Limit ≤ 0.1 ug/L
CS1(ORG)	+44.000	+1.359	Limit 1.5 ± 0.2 ug/L
CS2(INORG)	+48.500	+1.498	Limit 1.5 ± 0.2 ug/L
CS1/CS2(1:1)	+46.000	+1.421	
90FT20S54	+2.500	+0.083	0.1u
90FT20S53(DUP)	+2.500	+0.083	0.1u duplicate difference is SF7262 in control limit Δ < 0.15 ug/L
90FT20D54	+3.000	+0.098	0.1u
90FT02R95	+0.000	+0.006	0.1u
90FT20S53(SPK)	+36.750	+1.136	Recovery = 1.136 ug/L Limit = 1.0 ± 0.15 ug/L
90FU20S55	+2.000	+0.068	0.1u SF7261
90FT20S53	+1.750	+0.060	0.1u SF7262 ~~SF2~~ FAA 7/18/90
90FU20S56	+22.000	+0.683	~~0.1u~~ FAA 7/18/90 SF7261
90FU20D56	+21.000	+0.652	~~0.1u~~ FAA 7/18/90
90FU02R~~95~~96 FAA 7/18/90	-0.000	+0.006	0.1u
CS1(ORG)	+42.750	+1.321	Limit 1.5 ± 0.2 ug/L
CS2(INORG)	+48.500	+1.498	Limit 1.5 ± 0.2 ug/L
CS1/CS2(1:1)	+45.250	+1.398	
BLANK	+0.000	+0.006	Limit ≤ 0.1 ug/L

J. Bany

Francis A. Awanya 7/18/90

Francis A. Awanya 7/18/90

J Bany

OFFICE | FILE NO

SUBJECT Hg Analysis Data Set # SF7262 and ~~SF7261~~ FAA

COMPUTATION 7/18/90

COMPUTED BY J. Barry Francis A. Awanya | CHECKED BY | DATE 7/18/1990 | PAGE OF PAGES

(1) SAMPLE ID	(2)	(3) AVERAGE PEAK HEIGHT	(4)	(5) CONC. (ug/L)	(6)	(7) Limits	(8)	(9)	(10)
PRIMER		—							
0.0 ug/L		0		0.006		~~≤ 0.1 ug/L~~	FAA	7/18/90	
0.5 ug/L		15.5		0.483		+			
1.0 ug/L		32.5		0.998					
1.5 ug/L		49.5		1.528					
2.0 ug/L		64.25		1.982					
BLANK		0		0.006		< 0.1 ug/L			
CS1(ORG)		44		1.359		1.5 ± 0.2 ug/L			
CS2(INORG)		~~48.5~~		~~1.498~~		~~1.5 ± 0.2 ug/L~~			
CS1/CS2	(1:1)	46.0		1.421					
90FT20S	53	~~2.5~~ NOT COMPUTED			DUE TO POOR PRECISION			FAA 7/18/1990	
90FT20S	54	2.5		0.083					
90FT20S	53(DUP)	2.5		0.083		Limit	Δ < 0.15 ug/L		
90FT20D	54	3.0		0.098					
90FT02R	95	0.0		0.006					
90FT20S	53(SPK)	36.75		1.136		1.0 ± 0.15 ug/L		Recovery = 1.136 ug/L	
90FU20S	55	2.0		0.068					
90FT20S	53	1.75		0.060					
90FU20S	56	22.0		0.683					
90FU20D	56	21.0		0.652					
90FU02R	96	0		0.006					
CS1(ORG)		42.75		1.321		1.5 ± 0.2 ug/L			
CS2(INORG)		48.5		1.498		1.5 ± 0.2 ug/L			
CS1/CS2	(1:1)	45.25		1.398					
BLANK		0		0.006		< 0.1 ug/L			

Francis A. Awanya
7/18/90

J. Barry

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: AUG 0 3 1990

SUBJECT: Review of Region 5 data for Peerless Chain

FROM: Curtis Ross, Director for
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF7262
Sample Numbers: 90FTS53-S54/R95
Parameter(s): ICP
Laboratory: CRL-ESAT

Results Status:

(X) DATA ACCEPTABLE FOR USE* PP 8/2/90
( ) 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)

RECEIVED BY/DATE:
Comments:

DATA SET	SITE	DU/ACT.
SF7262	Peerless Chain Co.	TFA302

SAMPLES	PARAMETER(S)
90FT20S53, S54, D54, 90FT02R95	ICP

SAMPLED	RECEIVED	DUE	LAB
11 July 90	12 July 90	2 Aug 90	CRL

SHIPPED	DATA RECEIVED	CONTRACT
NA	23 July 90	ESAT

Comments By Reviewer:

Cu in 90FT02R95 confirmed by running undigested field blank.

(✓) REVIEWED ( ) UNREVIEWED TEAM LEADER/DATE John W. Moore 1 Aug 90

( ) REVIEWED (✓) UNREVIEWED SECTION CHIEF/DATE BB 8/1/90

(✓) REVIEWED ( ) UNREVIEWED QC COORDINATOR/DATE James H. Adams, Jr. 8/1/90

REVIEWED BY CONTRACT COORDINATOR/DATE

RECEIVED 8/3/90 TRANSMITTED 8/3/90 DATA MANAGEMENT COORDINATOR Buffin

CC: QUALITY CONTROL COORDINATOR

ESAT CONTRACT TID NO: 07-06
TASK NO: 3191

DATASET CUSTODY TRANSFER FORM

Analytical testing was completed on 7-17, 1990 for:

DATASET NO: SF7262 SITE NAME: PEERLESS CHAIN CO.

PARAMETER : ICAP

MATRIX : WATER SF DU/ACT NO: TFA 302 Y ___ /C ___

SAMPLE NUMBERS: 90FT20S53, S54, D54, 90FT02R95

NUMBER OF SAMPLES: 4

ESAT APPROVALS:

(ANALYST 7-18-90 DATE) (TEAM LEADER 7/20/90 DATE)

(QC COORDINATOR 7-19-90 DATE) (ESAT TEAM MANAGER 7-23-90 DATE)

COMMENTS: Ni FOR D54 WAS REPORTED USING RERUN DATA; ORIGINALLY RUN Ni DATA WAS ERRATIC. ORIGINAL RAW DATA PRINTOUTS AND QC PACKAGE REPORTS INCLUDED WITH DATA SET SF7261.

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.

(DELIVERED BY 7/23/90 DATE) (RECEIVED BY 23 July 90 DATE)

EPA APPROVALS:

(EPA TASK MONITOR 1 Aug 90 DATE)

[✓] Reviewed
[ ] Unreviewed
[✓] Accepted
[ ] Rejected
[ ] Returned/ ___ (Date)

COMMENTS: ___

(SECTION CHIEF DATE)

[ ] Reviewed [ ] Unreviewed

(ESAT DPO DATE) (DATA COORD'R REC'D TRANSMTD) 8/3/90

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

ESAT

TFA302

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 7/11/90 LAB ARRIVAL DATE 7/12/90 DUE DATE 8/2/90

DU NUMBER TFA [redacted] DATA SET NUMBER 7262 STUDY PEERLESS CHAIN CO. PRIORITY — CONTRACTOR —

CRL LOG NUMBER	SAMPLE DESCRIPTION	TOTAL METALS WATER Cd UG/L	TOTAL METALS WATER TOTAL ICAP UG/L MET111	TOTAL METALS WATER AS UG/L MET161	TOTAL METALS WATER PB UG/L MET1101	TOTAL METALS WATER SB UG/L MET1201	TOTAL METALS WATER SE UG/L MET1211	TOTAL METALS WATER TL UG/L MET1221
90FT20553	RW15-0M101	X	X	X	X	X	X	X
554	RW25-0M120	X	X	X	X	X	X	X
D54	DUP5-0M129	X	X	X	X	X	X	X
90FT02R95	BLANK 5-0M138	X	X	X	X	X	X	X
Shipment is	complete							

R. Dilg
7-18-90

NM
1 Aug 90

SAMPLE REPORT

Sample SF7262 90FT20S53 Operator

Date analyzed 07/17/90 Correction 1.22000 File name RUN808

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Barium	81.3	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	60600.	micrograms/liter
Cobalt	6.0 U	micrograms/liter
Chromium	8.0 U	micrograms/liter
Copper	6.0 U	micrograms/liter
Magnesium	25700.	micrograms/liter
Iron	1530.	micrograms/liter
Potassium	5000. U	micrograms/liter
Manganese	961.	micrograms/liter
Sodium	23600.	micrograms/liter
Nickel	16.7	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	40.0 U	micrograms/liter

R. Dilg
7-18-90

JVM
1 Aug 90

SAMPLE REPORT

Sample SF7262 90FT20S54 Operator

Date analyzed 07/17/90 Correction 1.22000 File name RUN808

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Barium	55.7	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	64600.	micrograms/liter
Cobalt	6.0 U	micrograms/liter
Chromium	8.0 U	micrograms/liter
Copper	6.0 U	micrograms/liter
Magnesium	30000.	micrograms/liter
Iron	499.	micrograms/liter
Potassium	5000. U	micrograms/liter
Manganese	31.3	micrograms/liter
Sodium	73400.	micrograms/liter
Nickel	15.0 U	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	40.0 U	micrograms/liter

R. Dilg
7-18-90

JM
1 Aug 90

SAMPLE REPORT

Sample SF7262 90FT20D54 Operator

Date analyzed 07/17/90 Correction 1.22000 File name RUN808

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Barium	54.7	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	64600.	micrograms/liter
Cobalt	6.0 U	micrograms/liter
Chromium	8.0 U	micrograms/liter
Copper	6.0 U	micrograms/liter
Magnesium	30000.	micrograms/liter
Iron	495.	micrograms/liter
Potassium	5000. U	micrograms/liter
Manganese	30.1	micrograms/liter
Sodium	72100.	micrograms/liter
Nickel	15.0 U	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	40.0 U	micrograms/liter

R. Dilg
7-18-90

mm
9 Aug 90

[redacted] SAMPLE REPORT

Sample SF7262 [redacted]90FT02R95 Operator [redacted]

Date analyzed 07/17/90 Correction 1.22000 File name RUN808

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Barium	6.0 U	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	500. U	micrograms/liter
Cobalt	6.0 U	micrograms/liter
Chromium	8.0 U	micrograms/liter
Copper	12.8	micrograms/liter
Magnesium	100. U	micrograms/liter
Iron	80.0 U	micrograms/liter
Potassium	5000. U	micrograms/liter
Manganese	5.0 U	micrograms/liter
Sodium	1000. U	micrograms/liter
Nickel	15.0 U	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	40.0 U	micrograms/liter

R. Dilg
7-18-90

Samples analyzed by SED5 on 07/17/90 stored in file RUN808 .

Data set	Sample id	Correction Factor	Dig QC	Ins QC
	CU IEC	1.00000	IEC	S
	AL IEC	0.00250	IEC	S
	FE IEC	0.00250	IEC	S
	CR IEC	1.00000	IEC	S
	CR IEC	1.00000	IEC	S
	INSTR BLANK 1	1.00000		B
OLD	AQC 1	1.00000		X
NEW	AQC 1	1.00000		Q
	HIGH AQC 1	1.00000		Q
	AG AQC 1	1.00000		Q
	ICAP 7	1.00000		S
	ICAP 19	1.00000		S
INITIAL	ICS A - VENTURES	1.00000		S
SF7261	90FU20S55	1.22000	SMP1	S
SF7261	90FU20S56	1.22000		S
SF7261	90FU20D56	1.22000		S
SF7261	90FU02R96	1.22000		S
SF7261	90FU20S55 DUP	1.22000	DUP1	S
SF7261	90FU20S55 SPIKE	1.52000	SPK1	S
SF7261	DIGESTION BLANK	1.22000		B
SF7261	90FU02R96 undigested	1.00000		S
	INSTR BLANK 2	1.00000		B
OLD	AQC 2	1.00000		X
NEW	AQC 2	1.00000		Q
	HIGH AQC 2	1.00000		Q
	AG AQC 2	1.00000		Q
SF7262	90FT20S53	1.22000	SMP2	S
SF7262	90FT20S54	1.22000		S
SF7262	90FT20D54	1.22000		S
SF7262	90FT02R95	1.22000		S
SF7262	90FT20S53 DUP	1.22000	DUP2	S
SF7262	90FT20S53 SPIKE	1.52000	SPK2	S
SF7262	DIGESTION BLANK	1.22000		B
SF7262	90FT02R95 undigested	1.00000		S
SF7262	90FT20D54 Ni verify	1.22000		S → Ni only
	INSTR BLANK 3	1.00000		B
OLD	AQC 3	1.00000		X
NEW	AQC 3	1.00000		Q
	HIGH AQC 3	1.00000		Q
	AG AQC 3	1.00000		Q
FINAL	ICS A - VENTURES	1.00000		S

R. Dilg
7-18-90

DIGESTION RECORD

Prepared by R. DILG Date 7-16-90 Run Number 808

[illegible] Number	Data Set	Sample Number	Notes	Vessel Number	Data Set	Sample Number	Notes
90	SF9261	90FU20585					
73		S56					
69		D56					
61		90FU0[illegible]					
69		90FU20565	DUP				
58		S55	SPIKE A,B,C 5ml				
82		DIGEST BLANK					
84	SF9262	90FT20553					
71		S54					
77		D54					
79		90FT02R95					
75		90FT20553	DUP				
64		S53	SPIKE A,B,C 5ml				
62		DIGEST BLANK					

COMMENTS:

R. Dilg
7-18-90

BLANK REPORT

Blank name INSTR BLANK 1

Date analyzed 07/17/90 File name RUN808

Element	Blank Value	Detection limit	Units
Ag	2.77	6.0	ug/L
Alhigh	-7.30	20000.0	ug/L
Allow	-1.56	80.0	ug/L
Ba	0.05	6.0	ug/L
Be	0.07	1.0	ug/L
Cahigh	-5.20	20000.0	ug/L
Calow	-1.40	500.0	ug/L
Co	-0.04	6.0	ug/L
Cr	0.43	8.0	ug/L
Cu	1.81	6.0	ug/L
Mghigh	-28.00	20000.0	ug/L
Mglow	4.70	100.0	ug/L
Felow	3.33	80.0	ug/L
Fehigh	-7.40	20000.0	ug/L
K	290.00	5000.0	ug/L
Mn	-0.29	5.0	ug/L
Na	12.60	1000.0	ug/L
Ni	12.07	15.0	ug/L
V	0.31	5.0	ug/L
Znlow	-1.44	40.0	ug/L
Znhigh	12.70	20000.0	ug/L

All values for the blank are less than detection limit.

P. Dilg
7-18-90

BLANK REPORT

Blank name INSTR BLANK 2

Date analyzed 07/17/90 File name RUN808

Element	Blank Value	Detection limit	Units
Ag	3.15	6.0	ug/L
Alhigh	-3.60	20000.0	ug/L
Allow	3.11	80.0	ug/L
Ba	0.16	6.0	ug/L
Be	0.06	1.0	ug/L
Cahigh	0.60	20000.0	ug/L
Calow	0.30	500.0	ug/L
Co	0.34	6.0	ug/L
Cr	1.29	8.0	ug/L
Cu	1.82	6.0	ug/L
Mghigh	-27.10	20000.0	ug/L
Mglow	5.70	100.0	ug/L
Felow	-0.79	80.0	ug/L
Fehigh	33.40	20000.0	ug/L
K	-12.80	5000.0	ug/L
Mn	-0.26	5.0	ug/L
Na	-10.10	1000.0	ug/L
Ni	1.16	15.0	ug/L
V	0.22	5.0	ug/L
Znlow	-1.84	40.0	ug/L
Znhigh	34.80	20000.0	ug/L

All values for the blank are less than detection limit.

R. Dilg
7/18-90

BLANK REPORT

Blank name INSTR BLANK 3

Date analyzed 07/17/90 File name RUN808

Element	Blank Value	Detection limit	Units
Ag	3.57	6.0	ug/L
Alhigh	7.30	20000.0	ug/L
Allow	1.73	80.0	ug/L
Ba	0.05	6.0	ug/L
Be	-0.01	1.0	ug/L
Cahigh	0.30	20000.0	ug/L
Calow	5.60	500.0	ug/L
Co	1.21	6.0	ug/L
Cr	3.68	8.0	ug/L
Cu	1.59	6.0	ug/L
Mghigh	-24.70	20000.0	ug/L
Mglow	8.10	100.0	ug/L
Felow	-1.75	80.0	ug/L
Fehigh	40.80	20000.0	ug/L
K	170.60	5000.0	ug/L
Mn	-0.37	5.0	ug/L
Na	14.50	1000.0	ug/L
Ni	3.95	15.0	ug/L
V	-1.14	5.0	ug/L
Znlow	-1.98	40.0	ug/L
Znhigh	28.50	20000.0	ug/L

All values for the blank are less than detection limit.

R. Dilg
7-18-90

BLANK REPORT

Blank name DIGESTION BLANK SF7261

Date analyzed 07/17/90 File name RUN808

Element	Blank Value	Detection limit	Units
Ag	4.10	6.0	ug/L
Alhigh	-49.00	20000.0	ug/L
Allow	-4.19	80.0	ug/L
Ba	0.10	6.0	ug/L
Be	0.00	1.0	ug/L
Cahigh	45.90	20000.0	ug/L
Calow	58.70	500.0	ug/L
Co	1.78	6.0	ug/L
Cr	5.33	8.0	ug/L
Cu	2.49	6.0	ug/L
Mghigh	-24.60	20000.0	ug/L
Mglow	15.50	100.0	ug/L
Felow	6.00	80.0	ug/L
Fehigh	-4.50	20000.0	ug/L
K	176.90	5000.0	ug/L
Mn	-0.27	5.0	ug/L
Na	-0.80	1000.0	ug/L
Ni	6.51	15.0	ug/L
V	1.69	5.0	ug/L
Znlow	1.95	40.0	ug/L
Znhigh	-73.30	20000.0	ug/L

All values for the blank are less than detection limit.

R. Dilg
7-18-90

BLANK REPORT

Blank name DIGESTION BLANK SF7262

Date analyzed 07/17/90 File name RUN808

Element	Blank Value	Detection limit	Units
Ag	3.95	6.0	ug/L
Alhigh	-62.30	20000.0	ug/L
Allow	-2.93	80.0	ug/L
Ba	0.00	6.0	ug/L
Be	-0.14	1.0	ug/L
Cahigh	37.70	20000.0	ug/L
Calow	72.20	500.0	ug/L
Co	2.39	6.0	ug/L
Cr	1.25	8.0	ug/L
Cu	2.75	6.0	ug/L
Mghigh	-23.30	20000.0	ug/L
Mglow	16.90	100.0	ug/L
Felow	3.68	80.0	ug/L
Fehigh	-88.30	20000.0	ug/L
K	-213.30	5000.0	ug/L
Mn	-0.44	5.0	ug/L
Na	-2.30	1000.0	ug/L
Ni	8.50	15.0	ug/L
V	0.00	5.0	ug/L
Znlow	4.58	40.0	ug/L
Znhigh	-266.40	20000.0	ug/L

All values for the blank are less than detection limit.

R. Dila
7-18-90

QUALITY CONTROL SAMPLE REPORT

QC ID AQC 1 Operator

Date analyzed 07/17/90 File name RUN808

Element	Found Value	True Value	Percent Deviation	Units
Allow	5010.0	5000.0	0.2%	ug/L
Ba	4966.9	5000.0	0.7%	ug/L
Be	5163.2	5000.0	3.3%	ug/L
Calow	5094.4	5000.0	1.9%	ug/L
Co	5064.4	5000.0	1.3%	ug/L
Cr	4956.2	5000.0	0.9%	ug/L
Cu	5108.8	5000.0	2.2%	ug/L
Mglow	5086.8	5000.0	1.7%	ug/L
Felow	4957.6	5000.0	0.8%	ug/L
Mn	5081.5	5000.0	1.6%	ug/L
Ni	5104.0	5000.0	2.1%	ug/L
V	4958.1	5000.0	0.8%	ug/L
Znlow	5050.1	5000.0	1.0%	ug/L

All elements within 5 % of the true value.

R. Dilg
7-18-90

QUALITY CONTROL SAMPLE REPORT

QC ID AQC 2 Operator

Date analyzed 07/17/90 File name RUN808

Element	Found Value	True Value	Percent Deviation	Units
Allow	5075.7	5000.0	1.5%	ug/L
Ba	5009.5	5000.0	0.2%	ug/L
Be	5213.3	5000.0	4.3%	ug/L
Calow	5139.7	5000.0	2.8%	ug/L
Co	5099.5	5000.0	2.0%	ug/L
Cr	5021.9	5000.0	0.4%	ug/L
Cu	5174.3	5000.0	3.5%	ug/L
Mglow	5196.1	5000.0	3.9%	ug/L
Felow	4973.8	5000.0	0.5%	ug/L
Mn	5096.8	5000.0	1.9%	ug/L
Ni	5171.8	5000.0	3.4%	ug/L
V	5002.4	5000.0	0.0%	ug/L
Znlow	5110.4	5000.0	2.2%	ug/L

All elements within 5 % of the true value.

R. Dilg
7-18-90

QUALITY CONTROL SAMPLE REPORT

QC ID AQC 3 Operator

Date analyzed 07/17/90 File name RUN808

Element	Found Value	True Value	Percent Deviation	Units
Allow	5075.2	5000.0	1.5%	ug/L
Ba	4999.8	5000.0	0.0%	ug/L
Be	5226.4	5000.0	4.5%	ug/L
Calow	5148.3	5000.0	3.0%	ug/L
Co	5121.7	5000.0	2.4%	ug/L
Cr	5065.3	5000.0	1.3%	ug/L
Cu	5175.8	5000.0	3.5%	ug/L
Mglow	5220.6	5000.0	4.4%	ug/L
Felow	4981.1	5000.0	0.4%	ug/L
Mn	5098.0	5000.0	2.0%	ug/L
Ni	5172.3	5000.0	3.4%	ug/L
V	5027.1	5000.0	0.5%	ug/L
Znlow	5129.5	5000.0	2.6%	ug/L

All elements within 5 % of the true value.

R. Dilg
7-18-90

QUALITY CONTROL SAMPLE REPORT

QC ID HIGH AQC 1 Operator

Date analyzed 07/17/90 File name RUN808

Element	Found Value	True Value	Percent Deviation	Units
Alhigh	100774.5	100000.0	0.8%	ug/L
Cahigh	100763.9	100000.0	0.8%	ug/L
Mghigh	101847.7	100000.0	1.9%	ug/L
Fehigh	97014.2	100000.0	3.0%	ug/L
K	105100.0	100000.0	5.1%	ug/L
Na	107159.8	100000.0	7.2%	ug/L
Znhigh	99008.8	100000.0	1.0%	ug/L

All elements within 10 % of true value.

R. Dilg
7-18-90

QUALITY CONTROL SAMPLE REPORT

QC ID HIGH AQC 2 Operator

Date analyzed 07/17/90 File name RUN808

Element	Found Value	True Value	Percent Deviation	Units
Alhigh	101609.3	100000.0	1.6%	ug/L
Cahigh	101469.6	100000.0	1.5%	ug/L
Mghigh	103078.5	100000.0	3.1%	ug/L
Fehigh	97719.3	100000.0	2.3%	ug/L
K	106306.8	100000.0	6.3%	ug/L
Na	106841.5	100000.0	6.8%	ug/L
Znhigh	99584.7	100000.0	0.4%	ug/L

All elements within 10 % of true value.

R. Dily
7-18-90

QUALITY CONTROL SAMPLE REPORT

QC ID HIGH AQC 3 Operator

Date analyzed 07/17/90 File name RUN808

Element	Found Value	True Value	Percent Deviation	Units
Alhigh	103399.1	100000.0	3.4%	ug/L
Cahigh	102856.9	100000.0	2.9%	ug/L
Mghigh	104326.7	100000.0	4.3%	ug/L
Fehigh	98912.3	100000.0	1.1%	ug/L
K	107782.2	100000.0	7.8%	ug/L
Na	108061.3	100000.0	8.1%	ug/L
Znhigh	101014.9	100000.0	1.0%	ug/L

All elements within 10 % of true value.

R. Dily
7-18-90

QUALITY CONTROL SAMPLE REPORT

QC ID AG AQC 1 Operator

Date analyzed 07/17/90 File name RUN808

Element	Found Value	True Value	Percent Deviation	Units
Ag	53.3	50.0	6.6%	ug/L

Silver audit within 10 % limit.

R. Dily
7-18-90

QUALITY CONTROL SAMPLE REPORT

QC ID AG AQC 2 Operator

Date analyzed 07/17/90 File name RUN808

Element	Found Value	True Value	Percent Deviation	Units
Ag	53.5	50.0	7.0%	ug/L

Silver audit within 10 % limit.

R. Dilg
7-18-90

QUALITY CONTROL SAMPLE REPORT

QC ID AG AQC 3 Operator

Date analyzed 07/17/90 File name RUN808

Element	Found Value	True Value	Percent Deviation	Units
Ag	53.4	50.0	6.8%	ug/L

Silver audit within 10 % limit.

R. Dilg
7-18-90

DUPLICATE

Sample SF7261 90FU20S55 Operator

Date Analyzed 07/17/90 Correction 1.22000 File RUN808

Element	Units	Sample	Duplicate	Difference	Detect Limit	RPD
Ag	ug/L	5	4	-1	6	-33%
Alhigh	ug/L	22	-22	-45	20000	0%
Allow	ug/L	-37	-52	-15	80	33%
Ba	ug/L	79	79	0	6	0%
Be	ug/L	0	0	0	1	0%
Cahigh	ug/L	83833	84149	315	20000	0%
Calow	ug/L	81254	81555	301	500	0%
Co	ug/L	1	3	2	6	125%
Cr	ug/L	5	2	-2	8	-70%
Cu	ug/L	8	6	-2	6	-34%
Mghigh	ug/L	29557	29689	132	20000	0%
Mglow	ug/L	30169	30304	135	100	0%
Felow	ug/L	548	544	-3	80	-1%
Fehigh	ug/L	856	756	-100	20000	-10%
K	ug/L	1987	1202	-786	5000	-39%
Mn	ug/L	14	14	0	5	-1%
Na	ug/L	13313	13335	22	1000	0%
Ni	ug/L	5	14	8	15	85%
V	ug/L	1	1	0	5	12%
Znlow	ug/L	16	19	3	40	16%
Znhigh	ug/L	-27	-31	-4	20000	0%

All duplicates values are within either 10% relative percent difference or the detection limit of each other.

R. Dily
7-18-90

DUPLICATE

Sample SF7262 90FT20S53 Operator

Date Analyzed 07/17/90 Correction 1.22000 File RUN808

Element	Units	Sample	Duplicate	Difference	Detect Limit	RPD
Ag	ug/L	3	5	2	6	41%
Alhigh	ug/L	-29	-27	2	20000	0%
Allow	ug/L	-26	-44	-18	80	51%
Ba	ug/L	81	81	0	6	0%
Be	ug/L	0	0	0	1	0%
Cahigh	ug/L	60585	61213	627	20000	1%
Calow	ug/L	65171	65270	100	500	0%
Co	ug/L	1	4	3	6	93%
Cr	ug/L	1	3	1	8	73%
Cu	ug/L	4	4	0	6	0%
Mghigh	ug/L	25692	25842	150	20000	1%
Mglow	ug/L	26217	26370	153	100	1%
Felow	ug/L	1526	1530	3	80	0%
Fehigh	ug/L	1702	1723	20	20000	1%
K	ug/L	3480	4396	916	5000	23%
Mn	ug/L	961	966	5	5	1%
Na	ug/L	23620	23693	72	1000	0%
Ni	ug/L	17	15	-1	15	-9%
V	ug/L	1	2	0	5	39%
Znlow	ug/L	11	6	-6	40	-69%
Znhigh	ug/L	-282	-27	255	20000	0%

All duplicates values are within either 10% relative percent difference or the detection limit of each other.

R. Dila
7-18-90

SPIKE COMPARISON

Sample SF7261 90FU20555 Analyzed by

Date Analyzed 07/17/90 Spike Correction 1.5200 File RUN808

Element	Units	Sample	Spike	Spike Added	Recovery
Ag	ug/L	5	49	50	88%
Allow	ug/L	-37	723	800	95%
Ba	ug/L	79	272	200	97%
Be	ug/L	0	10	10	101%
Cahigh	ug/L	83833	135000	50000	102%
Co	ug/L	1	92	100	91%
Cr	ug/L	5	99	100	94%
Cu	ug/L	8	56	50	96%
Mglow	ug/L	30169	55000	25000	99%
Felow	ug/L	548	1309	800	95%
K	ug/L	1987	27000	25000	100%
Mn	ug/L	14	111	100	97%
Na	ug/L	13313	66000	50000	105%
Ni	ug/L	5	159	150	102%
V	ug/L	1	45	50	89%
Znlow	ug/L	16	412	400	99%

All spike recoveries are within 15% of the expected value.

R. Dilg
7-18-90

SPIKE COMPARISON

Sample SF7262 90FT20S53 Analyzed by

Date Analyzed 07/17/90 Spike Correction 1.5200 File RUN808

Element	Units	Sample	Spike	Spike Added	Recovery
Ag	ug/L	3	51	50	96%
Allow	ug/L	-26	699	800	71%
Ba	ug/L	81	275	200	97%
Be	ug/L	0	10	10	98%
Cahigh	ug/L	60585	111000	50000	101%
Co	ug/L	1	97	100	96%
Cr	ug/L	1	107	100	106%
Cu	ug/L	4	53	50	97%
Mglow	ug/L	26217	51000	25000	99%
Felow	ug/L	1526	2310	800	96%
K	ug/L	3480	29000	25000	102%
Mn	ug/L	961	1069	100	108% #
Na	ug/L	23620	76000	50000	105%
Ni	ug/L	17	164	150	98%
V	ug/L	1	47	50	92%
Znlow	ug/L	11	399	400	97%

All spike recoveries are within 15% of the expected value.

Sample value is greater than twice the spike amount added;

the spike is invalid as an audit. There are 1 of these.

R. Dily
7-18-90

EXTERNAL CHECK STANDARD REPORT

Sample name ICAP 7 Date 07/17/90 File RUN808

Correction factor 1.00000

Element	Found value	True value	Percent Deviation	Units
Aq	1004.1	990	1.4%	ug/L
Allow	966.0	970	-0.4%	ug/L
B	1018.6	990	2.9%	ug/L
Ba	1001.8	970	3.3%	ug/L
K	11547.5	10000	15.5%	ug/L
Na	903.4	860	5.0%	ug/L

ALL WITHIN 10% EXCEPT FOR K;
K NOT ROUTINELY CONTROLLED AT THIS LEVEL.

R. Dilg
7-18-90

EXTERNAL CHECK STANDARD REPORT

Sample name ICAP 19 Date 07/17/90 File RUN808

Correction factor 1.00000

Element	Found value	True value	Percent Deviation	Units
Be	995.9	960	3.7%	ug/L
Calow	1007.8	1000	0.8%	ug/L
Cd	919.6	940	-2.2%	ug/L
Co	1007.1	1000	0.7%	ug/L
Cr	1003.9	1030	-2.5%	ug/L
Cu	1018.7	1030	-1.1%	ug/L
Felow	996.6	1020	-2.3%	ug/L
Mn	1014.3	1020	-0.6%	ug/L
Mo	1057.3	1060	-0.3%	ug/L
Ni	1040.0	1020	2.0%	ug/L
Pb	999.4	1010	-1.0%	ug/L
Ti	1012.7	1010	0.3%	ug/L
V	975.9	1010	-3.4%	ug/L
Znlow	1005.1	1010	-0.5%	ug/L

ALL WITHIN 10%.

R. Dilg
7-18-90

SAMPLE REPORT

Sample SF7261 90FU02R96 undigested Operator

Date analyzed 07/17/90 Correction 1.00000 File name RUN808

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Barium	6.0 U	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	500. U	micrograms/liter
Cobalt	6.0 U	micrograms/liter
Chromium	8.0 U	micrograms/liter
Copper	45.1	micrograms/liter
Magnesium	100. U	micrograms/liter
Iron	80.0 U	micrograms/liter
Potassium	5000. U	micrograms/liter
Manganese	5.0 U	micrograms/liter
Sodium	1000. U	micrograms/liter
Nickel	15.0 U	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	40.0 U	micrograms/liter

FOR VERIFICATION

R. Dily
7-18-90

SAMPLE REPORT

Sample SF7262 90FT02R95 undigested Operator

Date analyzed 07/17/90 Correction 1.00000 File name RUN808

Element	Concentration		Units
Silver	6.0	U	micrograms/liter
Aluminum	80.0	U	micrograms/liter
Barium	6.0	U	micrograms/liter
Beryllium	1.0	U	micrograms/liter
Calcium	500.	U	micrograms/liter
Cobalt	6.0	U	micrograms/liter
Chromium	8.0	U	micrograms/liter
Copper	12.4		micrograms/liter
Magnesium	100.	U	micrograms/liter
Iron	80.0	U	micrograms/liter
Potassium	5000.	U	micrograms/liter
Manganese	5.0	U	micrograms/liter
Sodium	1000.	U	micrograms/liter
Nickel	15.0	U	micrograms/liter
Vanadium	5.0	U	micrograms/liter
Zinc	40.0	U	micrograms/liter

FOR VERIFICATION

R. Dilg
7-18-90

SAMPLE REPORT

Sample INITIAL ICS A - VENTURES Operator

Date analyzed 07/17/90 Correction 1.00000 File name RUN808

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	485000.	micrograms/liter
Barium	14.0	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	471000.	micrograms/liter
Cobalt	6.0 U	micrograms/liter
Chromium	81.9	micrograms/liter
Copper	9.2	micrograms/liter
Iron	184000.	micrograms/liter
Potassium	5000. U	micrograms/liter
Manganese	69.6	micrograms/liter
Sodium	1000. U	micrograms/liter
Nickel	22.3	micrograms/liter
Vanadium	18.0	micrograms/liter
Zinc	44.3	micrograms/liter

CURRENTLY, LIMITS NOT ESTABLISHED

R. Dilg
7-18-90

SAMPLE REPORT

Sample FINAL ICS A - VENTURES Operator

Date analyzed 07/17/90 Correction 1.00000 File name RUN808

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	498000.	micrograms/liter
Barium	13.9	micrograms/liter
Beryllium	2.8	micrograms/liter
Calcium	486000.	micrograms/liter
Cobalt	6.0 U	micrograms/liter
Chromium	82.6	micrograms/liter
Copper	9.9	micrograms/liter
Iron	189000.	micrograms/liter
Potassium	5000. U	micrograms/liter
Manganese	71.3	micrograms/liter
Sodium	1000. U	micrograms/liter
Nickel	15.0 U	micrograms/liter
Vanadium	16.3	micrograms/liter
Zinc	48.3	micrograms/liter

CURRENTLY, LIMITS NOT ESTABLISHED

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: AUG 13 1990

SUBJECT: Review of Region 5 data for PEERLESS CHAIN CO.

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

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF 7262
Sample Numbers: 90 FT 20 $53 + $54; D54, R95
Parameter(s): PCB/Pest.
Laboratory: CRL

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)

RECEIVED BY/DATE:

Comments:

DATA SET	SITE	DU/ACT.
SF 7262	PEERLESS CHAIN CO.	TFA 302

SAMPLES	PARAMETER(S)
90FT20 S53, S54, D54 + R95	PEST / PCB

SAMPLED	RECEIVED	DUE	LAB
7/11/90	7/12/90	8/2/90	CRL

SHIPPED	DATA RECEIVED	CONTRACT

Comments By Reviewer:

Data are acceptable for use.

(✓) REVIEWED ( ) UNREVIEWED TEAM LEADER/DATE L Evangelista 7/31/90

(✓) REVIEWED ( ) UNREVIEWED SECTION CHIEF/DATE Chi Tang 8/10/90

(✓) REVIEWED ( ) UNREVIEWED QC COORDINATOR/DATE James M. Adams Jr. 8/10/90

REVIEWED BY CONTRACT COORDINATOR/DATE

RECEIVED 8/13/90 TRANSMITTED 8/13/90 DATA MANAGEMENT COORDINATOR Griffin

CC: QUALITY CONTROL COORDINATOR

ENVIRONMENTAL PROTECTION AGENCY, REGION V

DIVISION: ESD SAMPLING DATE: 7/11/90 ARRIVAL DATE: 7/12/90 ANALYSIS DUE DATE: 8/2/90

DATA SET #: SF7262 ACTIVITY #: STUDY: Peerless Chain 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. 90FT20 $53	0.002U	0.03U	0.02U	0.01U	0.01U	0.01U	0.01U	0.01U	0.02U	0.02U	0.02U	0.02U	0.04U	0.02U	0.02U	0.13U	0.05U	0.03U	0.025U	0.025U
2. 90FT20$54	0.002U	0.03U	0.02U	0.01U	0.01U	0.01U	0.01U	0.01U	0.02U	0.02U	0.02U	0.02U	0.04U	0.02U	0.02U	0.13U	0.05U	0.03U	0.025U	0.025U
3. 90FT20D54	0.002U	0.03U	0.02U	0.01U	0.01U	0.01U	0.01U	0.01U	0.02U	0.02U	0.02U	0.02U	0.04U	0.02U	0.02U	0.13U	0.05U	0.03U	0.025U	0.025U
4. 90FT02R95	0.002U	0.03U	0.02U	0.01U	0.01U	0.01U	0.01U	0.01U	0.02U	0.02U	0.02U	0.02U	0.04U	0.02U	0.02U	0.13U	0.05U	0.03U	0.025U	0.025U
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				
11.																				
12.																				

[illegible] 7/24/90

L Evangelista 7/30/90

FORM 1B

ENVIRONMENTAL PROTECTION AGENCY, REGION V

DIVISION: ESD SAMPLING DATE: 7/11/90 ARRIVAL DATE: 7/12/90 ANALYSIS DUE DATE: 8/2/90

DATA SET #: SF 7262 ACTIVITY #: STUDY: Perlen Chain

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.	90FT20 S53	0.2u	0.2u	0.2u	0.2u	1.0u	0.2u	
2.	90FT20 S54	0.2u	0.2u	0.2u	0.2u	1.0u	0.2u	
3.	90FT20 D54	0.2u	0.2u	0.2u	0.2u	1.0u	0.2u	
4.	90FT02 R95	0.2u	0.2u	0.2u	0.2u	1.0u	0.2u	
5.								
6.			AC	7/25/90				
7.			LE	7/30/90				
8.								
9.								
10.								
11.								
12.								
13.								

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

TFA302

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 7/11/90 LAB ARRIVAL DATE 7/12/90 DUE DATE 8/2/90

DU NUMBER IFA ~~[illegible]~~ DATA SET NUMBER 7262 STUDY PEERLESS CHAIN 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
90FT20S53	~~5-089105-6/5-089112-13~~ RW1 + MSD 14		X	X		
S54	RW2 5-089124-125		X	X		
↓ D54	DUP 5-089133-34		X	X		
90FT02R95	Blank 5-089142-43		X	X		
	Shipment is complete					

DATE: JULY 25, 1990

SUBJECT: SF 7262

TO: LINDA EVANGELISTA

FROM: AMBERINA KHAN

The data set consisted of 4 water samples. The samples were extracted by ESAT/WESTON. The sample extraction and analysis was carried out using CRL method 608DNS.

All sample holding times were met.

The endrin and DDT degradation was below 10%.

The matrix spike and duplicate recoveries were within the required range. All RPD's were under 10%.

The TCMX surrogate recoveries were within a range of 34 thru 53%.

** The solvent exchange for all samples was redone because the solvent peak interfered with the TCMX peak. A reanalysis was done for TCMX recoveries.

MeCl2

The method blank was free of contamination.

* The calibration curves were linear.

The continuing calibration RPD's were acceptable.

The samples did not contain any compounds of interest.

* A1242 calibration curves, correlation coeff. <0.98.

** The presence of residual methylene chloride was noted in the chromatograms.

LE 7/31/90

APPROVAL

SAT DPO — DATE IN

Jay Thompson 7-12-90

SAT DPO — DATE OUT

EPA, REGION V
CENTRAL REGIONAL LABORATORY
WESTON/ESAT ANALYSIS

PCB/Pest Sample Prep.

APPROVAL

ETM — DATE OUT

P. Neale 7-12-90

ETM — DATE IN

TID # 07-12
START DATE 7/12/90
DUE DATE 7/18/90
EST. HRS. REQUIRED FOR ANALYSIS 16

07-12

NO ASE #	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 7262	PEERLESS CHAIN CO.		4	7/12	07/17/90	12.5	16			3193

ESAT CONTRACT TID NO: 07-12

TASK NO: 3/93

ENVIRONMENTAL SAMPLE EXTRACT CUSTODY TRANSFER FORM

Sample extraction was completed on 07/17, 1990 for:

DATASET NO: SF7262 SITE NAME: Peerless Chain Co

PARAMETER : ~~Water~~ Pest/PCB

MATRIX : Water SF DU/ACT NO: TFA302 Y____ /C_____

SAMPLE NUMBERS: 90FT20SS3, SS4, DS4, 90FT02R95

NUMBER OF SAMPLES: 4

ESAT APPROVALS:

Anthony Komsky 07/17/90 (ANALYST DATE)

[illegible] 7/17/90 (TEAM LEADER DATE)

(QC COORDINATOR DATE)

P. Heck 7-18-90 (ESAT TEAM MANAGER DATE)

COMMENTS:

The subject sample extracts were transferred to the custody of the U.S. EPA Region V Central Regional Laboratory on the date indicated below.

Anthony Komsky 07/17/90 (DELIVERED BY DATE)

E. Evangelista 7/17/90 (RECEIVED BY DATE)

EPA APPROVALS:

(EPA TASK MONITOR DATE)

[ ] Reviewed
[ ] Unreviewed
[ ] Accepted
[ ] Rejected
[ ] Returned/_____ (Date)

COMMENTS:

(SECTION CHIEF DATE)

[ ] Reviewed [ ] Unreviewed

(ESAT DPO DATE)

(DATA COORD'R REC'D TRANSMTD)

A:[bs]FORMS[bs]EXTTRANS.FRM WS
DOC.NO.: ESAT-05-0167-FORM
REVISION: NEW

FILE LOCATION NO: 5.6.

PCB/PEST EXTRACTION

DATA SET(S) SF7262 DATE EXTRACTED: 07/13/90
SAMPLE TYPE(S) Water DATE CONCENTRATED: 07/17/90
EXTRACTION SYSTEM ~~sep~~ cont. funnel DATE COMPLETED: 07/17/90
SOLVENT SYSTEM CH_2Cl_2 VOLUMES USED

	SAMPLE #	SAMPLE AMOUNT	CONC. EXTRACT	DILUTIONS 1ST	2ND	3RD	FINAL VOL	INSTDS MRX/OTHER	pH
*	90FT20S53	1L	10ml				10ml		6.0
*	pest-MS 90FT20S53	1L	10ml						6.0
*	pest-MSD 90FT20S53	1L	10ml						6.0
*	PCB-MS 90FT20S53	1L	10ml						6.0
*	PCB-MSD 90FT20S53	1L	10ml						6.0
**	90FT20S54	1L	10ml						6.0
**	90FT20D54	1L	10ml						6.0
	90FT02R95	1L	10ml						5.5
	Method Blank	1L	10ml						5.5
	* - Light Yellow								
	** - Yellow, cloudy								

: PREPARATION DATE : VOLUME

*MATRIX SPIKE SOLUTION: 1ml of pesticide matrix spike solution was added to the Pest MS / Pest MSD (prep date 5/7/89)

*MATRIX SPIKE SOLUTION: 1ml of Aroclor 1242 @ 3 µg/ml was added to the PCB-MS / PCB-MSD sample (prep date 5/16/90)

*SURROGATES: ~~1ml of DBC (0.5 µg/ml)~~ 0.25 ml of TCMX (99 µg/ml) ~~7/16/90~~ AF solution was added to all of the above Pesticide / PCB samples.

PREP. CHEMIST Anthony Konsky ANALYST [signature]

Individual who witness by spiking Sandra Jenko

SF 7261 + 7262

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	PEST STD A LEVEL 1	N:ZERO	5743935	1.0000	1.0000	1.00	1.000
2	PEST STD A LEVEL 2	N:ZERO	5543772	1.0000	1.0000	1.00	1.000
3	PEST STD A LEVEL 3	N:ZERO	5380537	1.0000	1.0000	1.00	1.000
4	PEST STD A LEVEL 4	N:ZERO	5421002	1.0000	1.0000	1.00	1.000
5	PEST STD A LEVEL 5	N:ZERO	5345016	1.0000	1.0000	1.00	1.000
6	PEST STD B LEVEL 1	N:ZERO	5396755	1.0000	1.0000	1.00	1.000
7	PEST STD B LEVEL 2	N:ZERO	5166598	1.0000	1.0000	1.00	1.000
8	PEST STD B LEVEL 3	N:ZERO	5179430	1.0000	1.0000	1.00	1.000
9	PEST STD B LEVEL 4	N:ZERO	5524416	1.0000	1.0000	1.00	1.000
10	PEST STD B LEVEL 5	N:ZERO	5582050	1.0000	1.0000	1.00	1.000
11	STD 1242 LEVEL 1	N:ZERO	5697594	1.0000	1.0000	1.00	1.000
12	STD 1242 LEVEL 2	N:ZERO	4936383	1.0000	1.0000	1.00	1.000
13	STD 1242 LEVEL 3	N:ZERO	4989050	1.0000	1.0000	1.00	1.000
14	STD 1242 LEVEL 4	N:ZERO	5762238	1.0000	1.0000	1.00	1.000
15	STD 1242 LEVEL 5	N:ZERO	5191442	1.0000	1.0000	1.00	1.000
16	STD TCMX	N:ZERO		1.0000	1.0000	1.00	1.000
17	DEG ENDRIN	N:ZERO	5465604	1.0000	1.0000	1.00	1.000
18	SOLVENT BLANK	N:ZERO	5495654	1.0000	1.0000	1.00	1.000
19	DEG DDT	N:ZERO	5334738	1.0000	1.0000	1.00	1.000
20	METHOD BLANK 7261	N:ZERO	5304391	1.0000	1.0000	1.00	1.000
21	PEST SPK 90FU20S55	N:ZERO	4933951	1.0000	1.0000	1.00	1.000
22	PEST SPK DUP 90FU20S	N:ZERO	4939306	1.0000	1.0000	1.00	1.000
23	PCB SPK 90FU20S55	N:ZERO	5076846	1.0000	1.0000	10.00	1.000
24	PCB SPK DUP 90FU20S5	N:ZERO	4461380	1.0000	1.0000	10.00	1.000
25	90FU20S55	N:ZERO	4982719	1.0000	1.0000	10.00	1.000
26	90FU20S56	N:ZERO	4742429	1.0000	1.0000	10.00	1.000
27	90FU20D56	N:ZERO	4593048	1.0000	1.0000	10.00	1.000
28	90FU02R96	N:ZERO	5122722	1.0000	1.0000	10.00	1.000
29	METHOD BLANK 7262	N:ZERO	4929720	1.0000	1.0000	10.00	1.000
30	PEST SPK 90FT20S55	N:ZERO	4637237	1.0000	1.0000	10.00	1.000
31	PEST SPK DUP 90FT20S	N:ZERO	4601793	1.0000	1.0000	10.00	1.000
32	90FT20S53	N:ZERO	4307924	1.0000	1.0000	10.00	1.000
33	90FT20S54	N:ZERO	4269924	1.0000	1.0000	10.00	1.000
34	90FT20D54	N:ZERO	4277581	1.0000	1.0000	10.00	1.000
35	90FT02R95	N:ZERO	4624313	1.0000	1.0000	10.00	1.000
36	PCB SPK 90FT20S53	N:ZERO	4580837	1.0000	1.0000	10.00	1.000
37	PCB SPK DUP 90FT20S5	N:ZERO	4469864	1.0000	1.0000	10.00	1.000
38	DEG ENDRIN	N:ZERO	4540940	1.0000	1.0000	1.00	1.000
39	DEG DDT	N:ZERO	4548415	1.0000	1.0000	1.00	1.000
40	PEST STD A LEVEL 3	N:ZERO	4882703	1.0000	1.0000	1.00	1.000
41	PEST STD B LEVEL 3	N:ZERO	4648059	1.0000	1.0000	1.00	1.000
42	STD 1248 LEVEL 1	N:ZERO		1.0000	1.0000	1.00	1.000
43	STD 1248 LEVEL 2	N:ZERO		1.0000	1.0000	1.00	1.000
44	STD 1248 LEVEL 3	N:ZERO		1.0000	1.0000	1.00	1.000
45	STD 1248 LEVEL 4	N:ZERO		1.0000	1.0000	1.00	1.000
46	STD 1248 LEVEL 5	N:ZERO		1.0000	1.0000	1.00	1.000
47	STD 1260 LEVEL 1	N:ZERO		1.0000	1.0000	1.00	1.000
48	STD 1260 LEVEL 2	N:ZERO		1.0000	1.0000	1.00	1.000
49	STD 1260 LEVEL 3	N:ZERO		1.0000	1.0000	1.00	1.000
50	STD 1260 LEVEL 4	N:ZERO		1.0000	1.0000	1.00	1.000
51	STD 1260 LEVEL 5	N:ZERO		1.0000	1.0000	1.00	1.000
52	89TS31S01	N:ZERO		1.0000	1.0000	500.00	1.000
53	89TS31S01	N:ZERO		1.0000	1.0000	1000.00	1.000
54	89TS31S01 DUP	N:ZERO		1.0000	1.0000	500.00	1.000

DATA POINT	DATA ENTERED	DEVIATION
1	5743935	748082.9
2	5043772	47919.90000000002
3	5380537	384684.9
4	5421002	425149.9
5	5345016	349163.9
6	5396755	400902.9
7	5166598	170745.9
8	5179430	183577.9
9	5524416	528563.9
10	5582050	586197.9
11	5697594	701741.9
12	4936383	-59469.09999999998
13	4989050	-6802.099999999977
14	5762238	766385.9
15	5191442	195589.9
16	5465604	469751.9
17	5495654	499801.9
18	5334738	338885.9
19	5304391	308538.9
20	4933951	-61901.09999999998
21	4959306	-36546.09999999998
22	5076846	80993.90000000002
23	4461380	-534472.1
24	4982719	-13133.09999999998
25	4742429	-253423.1
26	4593048	-402804.1
27	5122722	126869.9
28	4929720	-66132.09999999998
29	4929720	-66132.09999999998
30	4037237	-958615.1
31	4601793	-394059.1
32	4307984	-687868.1
33	4269921	-725931.1
34	4277581	-718271.1
35	4624363	-371489.1
36	4580837	-415015.1
37	4469864	-525988.1
38	4540940	-454912.1
39	4548415	-447437.1
40	4882703	-113149.1

The number of data points= 40

The sum of the data= 199834084

The mean= 4995852.1

The standard deviation is= 441794.7588961308

The coefficient of variation is= .0884323134578245

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGH
1	STD TCMX	ZERO		1.0000	1.0000	1.00	1.00
2	PCB SPK S55	ZERO		1.0000	1.0000	10.00	1.00
3	PCB SPK DUP S55	ZERO		1.0000	1.0000	10.00	1.00
4	METHOD BLANK 7261			1.0000	1.0000	10.00	1.00
5	PEST SPK S55	ZERO		1.0000	1.0000	10.00	1.00
6	PEST SPK DUP S55	ZERO		1.0000	1.0000	10.00	1.00
7	D56	ZERO		1.0000	1.0000	10.00	1.00
8	S56	ZERO		1.0000	1.0000	10.00	1.00
9	S55	ZERO		1.0000	1.0000	10.00	1.00
10	R96	ZERO		1.0000	1.0000	10.00	1.00
11	R95	ZERO		1.0000	1.0000	10.00	1.00
12	PEST SPK DUP S53	ZERO		1.0000	1.0000	10.00	1.00
13	S53	ZERO		1.0000	1.0000	10.00	1.00
14	PCB SPK DUP S53	ZERO		1.0000	1.0000	10.00	1.00
15	D54	ZERO		1.0000	1.0000	10.00	1.00
16	METHOD BLANK 7262	ZERO		1.0000	1.0000	10.00	1.00
17	S54	ZERO		1.0000	1.0000	10.00	1.00
18	PCB SPK S53	ZERO		1.0000	1.0000	10.00	1.00
19	PEST SPK S53	ZERO		1.0000	1.0000	10.00	1.00
20	PEST SPK S53	ZERO		1.0000	1.0000	10.00	1.00

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CENTRAL REGIONAL LABORATORY REGION V CHICAGO IL.

****

INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: ~~FULTZ~~ SF7262 DATE: 07-24-90 GC # 1

COLUMN TYPE QUANT FILE NAME 1SF 3 &1SF 40

VERSION: 103 STANDARD NAME: PESTICIDESA

COMPOUND	INITIAL AREA	CONT AREA	% RPD	INITIAL RT	CONTIN. RT	% RPD
ALPHA BHC	1595105	1429384	11	2.57	2.55	1
LINDANE	1211146	1098856	10	3.22	3.22	0
HEPTACHLOR	1109280	1154108	-4	3.95	3.96	-0
ALDRIN	2185851	1937048	12	4.78	4.77	0
HEPT EPOXID	2852568	2515731	13	7.13	7.15	-0
ENDO I	3201933	2842826	12	8.97	8.98	-0
DIELDRIN	3375734	2964147	13	10.92	10.94	-0
ENDRIN	3844930	3594488	7	13.23	13.26	-0
ENDO II	6783809	6492500	4	15.97	15.98	-0
DDT	5492290	5177020	6	18.88	18.90	-0
DBC	0	0	ERR	27.13	26.83	1
METHOXYCHLO	4221670	4046467	4	35.85	35.89	-0
	0	0	0	0.00	0.00	ERR
	0	0	ERR	0.00	0.00	ERR

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CENTRAL REGIONAL LABORATORY REGION V CHICAGO IL.

****

INITIAL AND CONTINUING CALIBRATION FORM

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CENTRAL REGIONAL LABORATORY REGION V CHICAGO IL.

****

INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: ~~FULTZ~~ SF7262 DATE: 07-24-90 GC # 1

COLUMN TYPE QUANT FILE NAME 1SF 8 & 1SF 41

VERSION: 72 STANDARD NA NAME: PEST B

COMPOUND	INITIAL AREA	CONT AREA	% RPD	INITIAL RT	CONTIN. RT	% RPD
BETA BHC	1778645	1605968	10	3.66	3.66	0
DELTA BHC	2115614	1940985	9	4.27	4.26	0
ALPHA CHLOR	3059304	2768883	10	7.93	7.91	0
GAMMA CHLOR	3274832	2980648	9	8.65	8.63	0
DDE 4'4'	3108699	2922915	6	10.30	10.29	0
DDD 4'4	4541421	4152927	9	15.73	15.70	0
END ALDEHYD	4734637	3757676	23	20.82	20.79	0
ENDO SULAFA	5724812	5411088	6	25.42	25.37	0
END KETONE	9309859	8667953	7	34.35	34.30	0

CENTRAL REGIONAL LABORATORY REGION V CHICAGO IL.

****

INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: 7262 & 7261 DATE: 07-24-90 GC # 1

COLUMN TYPE CONF FILE NAME 2SF 4 & 2SF 41

VERSION: 88 STANDARD NAME: PESTICIDES A

COMPOUND	INITIAL AREA	CONT AREA	% RPD	INITIAL RT	CONTIN. RT	% RPD
ALPHA BHC	470018	451367	4	2.35	2.35	0
LINDANE	343275	330022	4	2.75	2.75	0
HEPTACHLOR	441649	413754	7	4.36	4.35	0
ALDRIN	698993	659233	6	5.36	5.35	0
HEPT EPOXID	1019234	956149	6	6.49	6.48	0
ENDO I	1087278	1034836	5	8.03	8.02	0
DIELDRIN	1130683	1004601	12	9.35	9.33	0
END&ENDOII	4044312	3840026	5	10.57	10.55	0
DDT	1108949	1031743	7	15.09	15.07	0
DBC	0	0	ERR	0.00	0.00	ERR
METHOXYCHLO	951083	964488	-1	22.13	22.08	0
	0	0	0	0.00	0.00	ERR

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CENTRAL REGIONAL LABORATORY REGION V CHICAGO IL.

****

INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF7262 J7261 DATE: 07-24-90 GC # 1

COLUMN TYPE CONF FILE NAME 2SF 9 &2SF42 AK

VERSION: STANDARD NA NAME: PEST B

	INITIAL	CONT	%	INITIAL	CONTIN.	%

COMPOUND	AREA	AREA	RPD	RT	RT	RPD
BETA BHC	702618	685125	3	2.52	2.52	0
DELTA BHC	585492	620267	-6	2.83	2.82	0
DDE 4'4'	917404	910365	1	9.23	9.23	0
ENDALD&DDD	2936443	3171423	-8	11.63	11.62	0
ENDO SULAFA	1751588	1919607	-9	13.53	13.53	0
END KETONE	2819596	2823045	-0	17.33	17.33	0

ANALYST SIGNITURE SUPERVISOR SIGNITURE

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

CENTRAL REGIONAL LABORATORY REGION V CHICAGO IL.

ENDRIN AND DDT DEGRADATION

DATA SET: ~~FULTZ~~ SF7262 DATA SET NAME:

DATE: 7-24-90 COLUMN TYPE: QUANT GC# 1

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

CALIBRATI	DATE ANALYZED	FILE NAME	AREA OF END ALD	AREA OF END KET	AREA OF ENDRIN	% DEG
INITIAL	07-18-90	1SF17	193731	259878	13886033	3
	07-18-90	1SF38	168181	182069	12264036	3
	07-23-90	1SF72	852609	308385	14508803	7
						ERR

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

CALIBRATI	DATE ANALYZED	FILE NAME	AREA OF DDE	AREA OF DDD	AREA OF DDT	% DEG
INITIAL	07-18-90	1SF19	721923	332774	17576252	6
	07-18-90	1SF39	478580	251539	15596253	4
	07-23-90	1SF73	622215	311417	16544976	5

A1.....N13

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

CENTRAL REGIONAL LABORATORY REGION V CHICAGO IL.

ENDRIN AND DDT DEGRADATION

DATA SET: ~~FULTZ~~ SF7262 DATA SET NAME:

DATE: 7-24-90 COLUMN TYPE: CONF GC# 1

PERCENT

A1.....N13

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

CALIBRATI	DATE ANALYZED	FILE NAME	AREA OF END ALD	AREA OF END KET	AREA OF ENDRIN	% DEG
INITIAL	07-18-90	1SF18	250533	109777	6130405	6
	07-18-90	2SF39	241522	87064	6125652	5
	07-23-90	2SF73	242659	120127	5733011	6
						ERR

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

CALIBRATI	DATE ANALYZED	FILE NAME	AREA OF DDE	AREA OF DDD	AREA OF DDT	% DEG
INITIAL	07-18-90	2SF20	155021	180886	5082076	6
	07-18-90	2SF40	109260	191132	5113084	6
	07-23-90	2SF74	127468	0	3478132	4

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

********** 07-24-1990 10:20:53 Version 4.1 **********

* Sample Name: DEG ENDRIN Data File: P:1SF17 *
* Date: 07-18-1990 00:03:09 Method: P:PESA 07-24-1990 08:10:24 # 103 *
* Interface: 0 Cycle#: 17 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

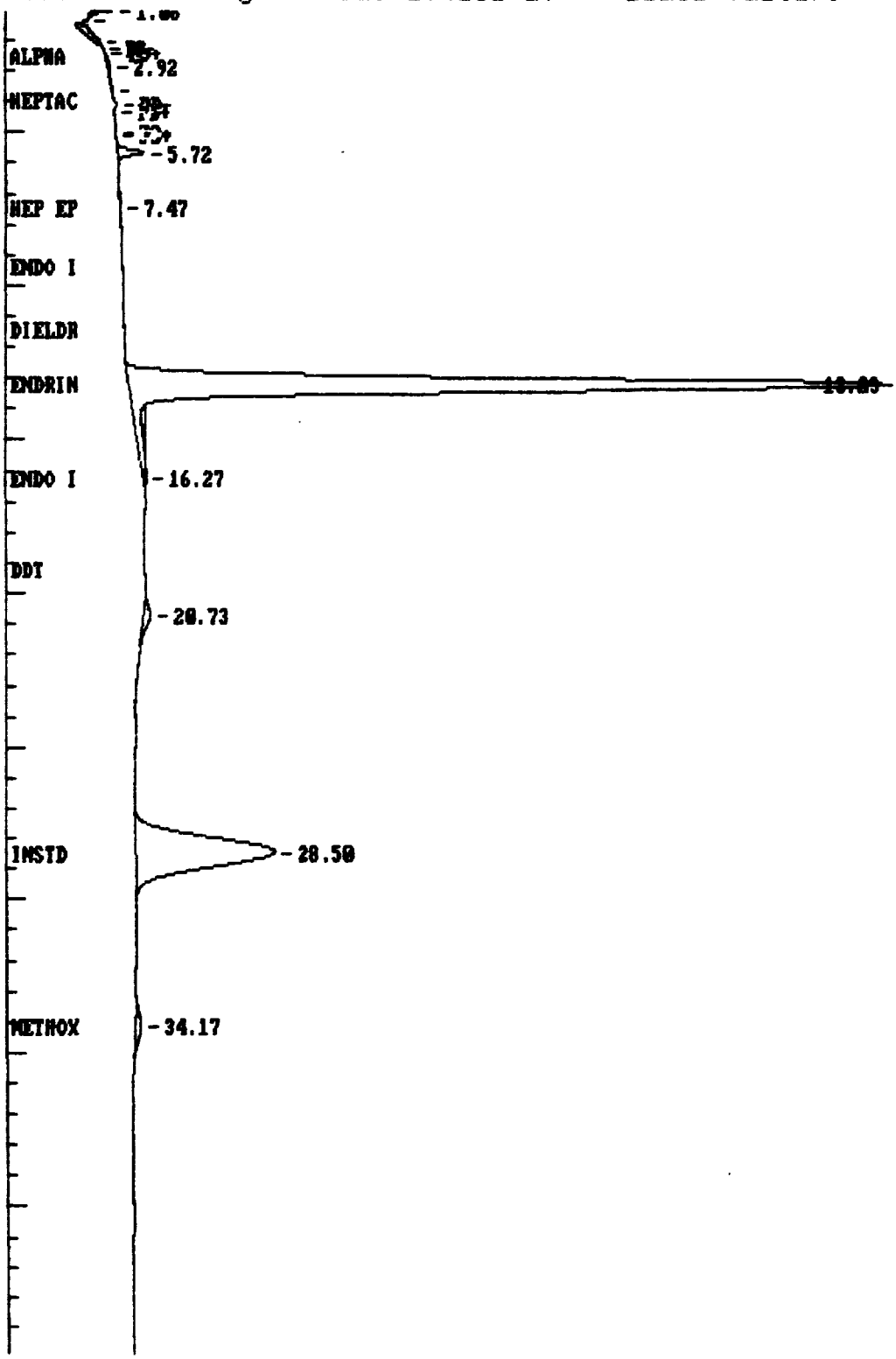
****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 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
7	7.47	HEP EPOX	-0.0003	-0.3306%	3603	335	10.8	1	7	11	0	-8.1389E-08
8	13.23	ENDRIN	0.0851	95.8879%	13886033	452328	30.7	3	8	11	0	6.1256E-09
9	16.27	ENDO II	0.0006	0.6728%	10396	343	30.3	4	9	11	0	5.7412E-08
11	28.50	INSTD MIREX	1.0000	0.0000%	5465604	82423	66.3	1	11	11	0	1.8296E-07
12	34.17	METHOXYCHLOR	0.0033	3.7699%	259878	3812	68.2	1	12	11	0	1.2868E-08

TOTAL AMOUNT = 0.0887

Data File = P:1SF17.PTS Printed on 07-24-1990 at 10:21:09
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 111543 uv High Value: 594515 uv Scale factor: 1.0



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

********** 07-24-1990 10:15:52 Version 4.1 **********

* Sample Name: DEG ENDRIN Data File: P:1SF17 *
* Date: 07-18-1990 00:03:09 Method: P:1PESTB 07-23-1990 09:00:11 # 72 *
* Interface: 0 Cycle#: 17 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

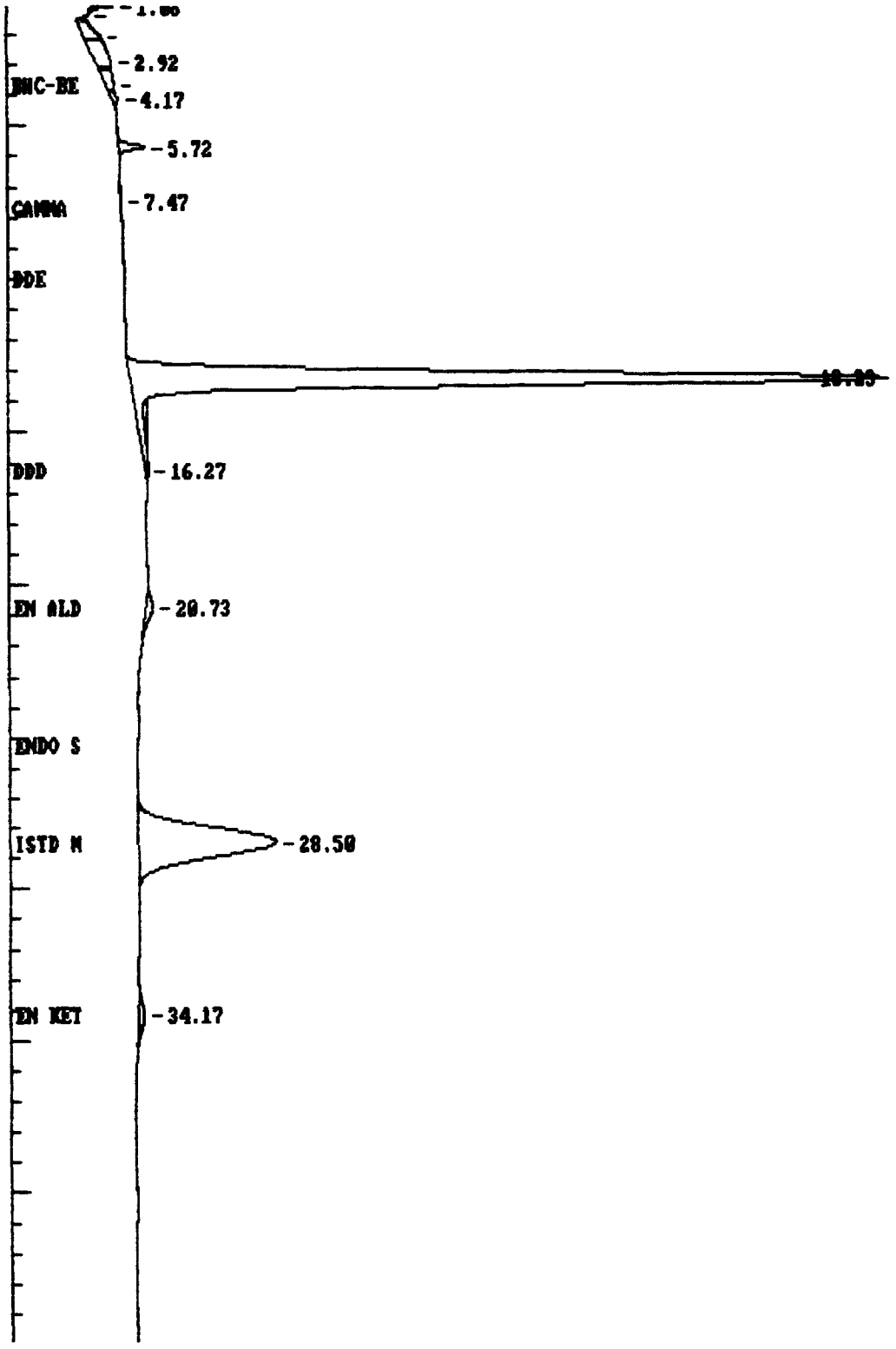
****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 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
5	3.72	BHC-BETA	0.0001	-3.4526%	220260	4034	54.6	2	5	12	0	6.2511E-10
6	4.17	BHC-DELTA	0.0001	-2.6131%	71236	3093	23.0	2	6	12	0	1.4629E-09
8	7.47	GAMMA CHLORDANE	-0.0014	34.8572%	3603	335	10.8	1	6	12	-3.441	-3.8581E-07
10	16.27	DDD	-0.0013	32.0382%	10396	343	30.3	4	10	12	0	-1.2290E-07
11	20.73	EN ALDEHYDE	0.0004	-8.8146%	193731	3952	49.0	1	11	12	0	1.8145E-09
12	28.50	ISTD MIREX	1.0000	0.0000%	5465604	82423	66.3	1	12	12	0	1.8296E-07
13	34.17	EN KETONE	-0.0019	47.9849%	259878	3812	68.2	1	13	12	0	-7.3635E-09

TOTAL AMOUNT = -0.0040

Data File = P:1SF17.PTS Printed on 07-24-1990 at 10:16:10
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 111543 uv High Value: 594515 uv Scale factor: 1.0



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

********** 07-24-1990 10:18:21 Version 4.1 **********

Sample Name: DEG DDT Data File: P:1SF19

Date: 07-18-1990 01:37:50 Method: P:1PESTB 07-23-1990 09:00:11 # 72

Interface: 0 Cycle#: 19 Operator AK Channel#: 0 Vial#: N.A.

Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000

Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE

Solvent Description: ULTRA HIGH PURITY NITROGEN

Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C

Detector 0: ECD QUANT Detector 1:

Misc. Information:

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 1.00

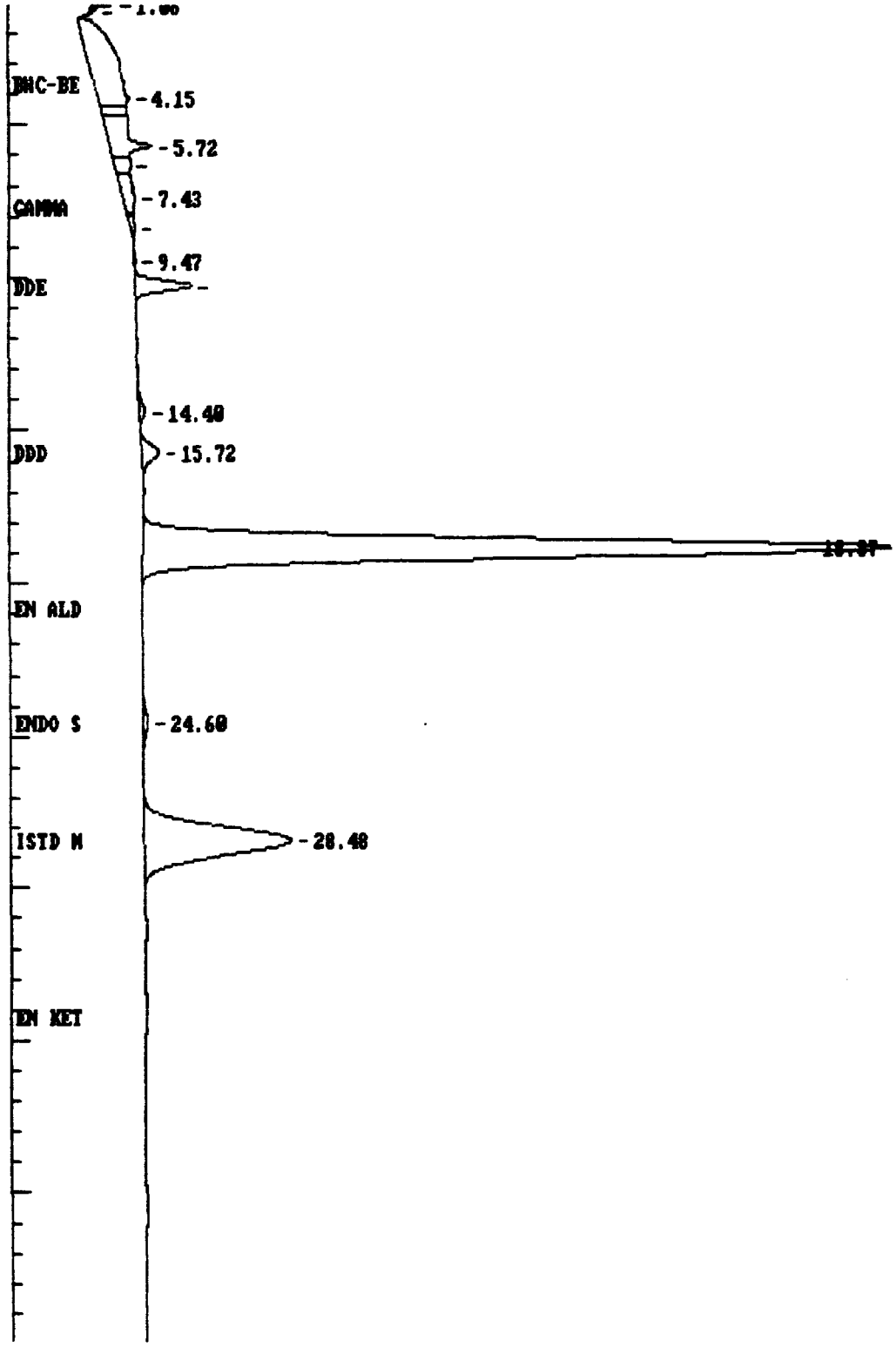
Internal Standard Amount: 1

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
3	4.15	BHC-DELTA	0.0120	77.1532%	2457957	16717	147.0	2	3	14	0	4.8752E-09
6	7.43	GAMMA CHLORDANE	0.0007	4.5252%	454567	6590	69.0	2	3	14	-3.486	1.5461E-09
7	8.38	ALPHA CHLORDANE	-0.0009	-5.4822%	87327	2169	40.3	2	7	14	0	-9.7503E-09
9	10.28	DDE	0.0029	18.7990%	721923	30985	23.3	2	9	14	0	4.0444E-09
11	15.72	DDD	0.0006	4.0973%	332774	9169	36.3	1	11	14	0	1.9123E-09
13	24.60	ENDO SULFATE	0.0001	0.9075%	131148	2363	55.5	1	13	14	0	1.0747E-09
14	28.48	ISTD MIREX	1.0000	0.0000%	5334738	80827	66.0	1	14	14	0	1.8745E-07

TOTAL AMOUNT = 0.0155

Data File = P:1SF19.PTS Printed on 07-24-1990 at 10:18:39
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 108782 uv High Value: 556753 uv Scale factor: 1.0



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

********** 07-24-1990 10:22:07 Version 4.1 **********

* Sample Name: DEG DDT Data File: P:1SF19 *
* Date: 07-18-1990 01:37:50 Method: P:PESA 07-24-1990 08:10:24 # 103 *
* Interface: 0 Cycle#: 19 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

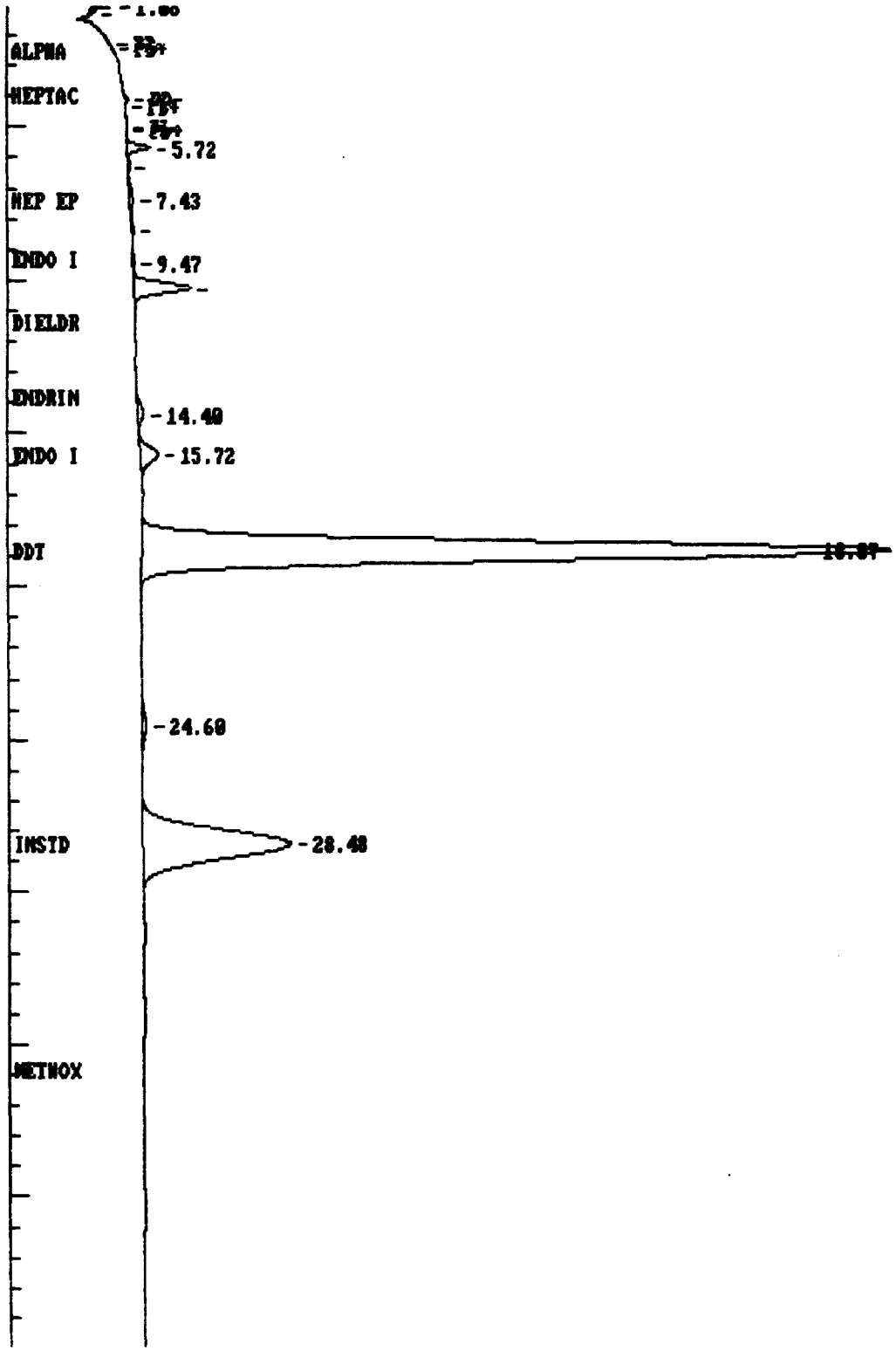
* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 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
5	7.43	HEP EPOX	0.0000	0.0527%	79994	2425	33.0	2	5	13	0	6.0721E-10
7	9.47	ENDO I	-0.0002	-0.2595%	12800	707	18.1	2	5	13	1.315	-1.8689E-08
9	14.40	ENDRIN	0.0010	1.0810%	117762	3210	36.7	1	5	13	4.293	8.4636E-09
10	15.72	ENDO II	0.0020	2.1155%	332774	9169	36.3	1	10	13	0	5.8614E-09
11	18.87	DDT	0.0894	97.0102%	17576252	412931	42.6	1	11	13	0	5.0889E-09
13	28.48	INSTD MIREX	1.0000	0.0000%	5334738	80827	66.0	1	13	13	0	1.8745E-07

TOTAL AMOUNT = 0.0922

Data File = P:1SF19.PTS Printed on 07-24-1990 at 10:22:23
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 108782 uv High Value: 556753 uv Scale factor: 1.0



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

********** 07-24-1990 10:17:07 Version 4.1 **********

* Sample Name: DEG ENDRIN Data File: P:1SF38 *
* Date: 07-18-1990 16:36:07 Method: P:1PESTB 07-23-1990 09:00:11 # 72 *
* Interface: 0 Cycle#: 38 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

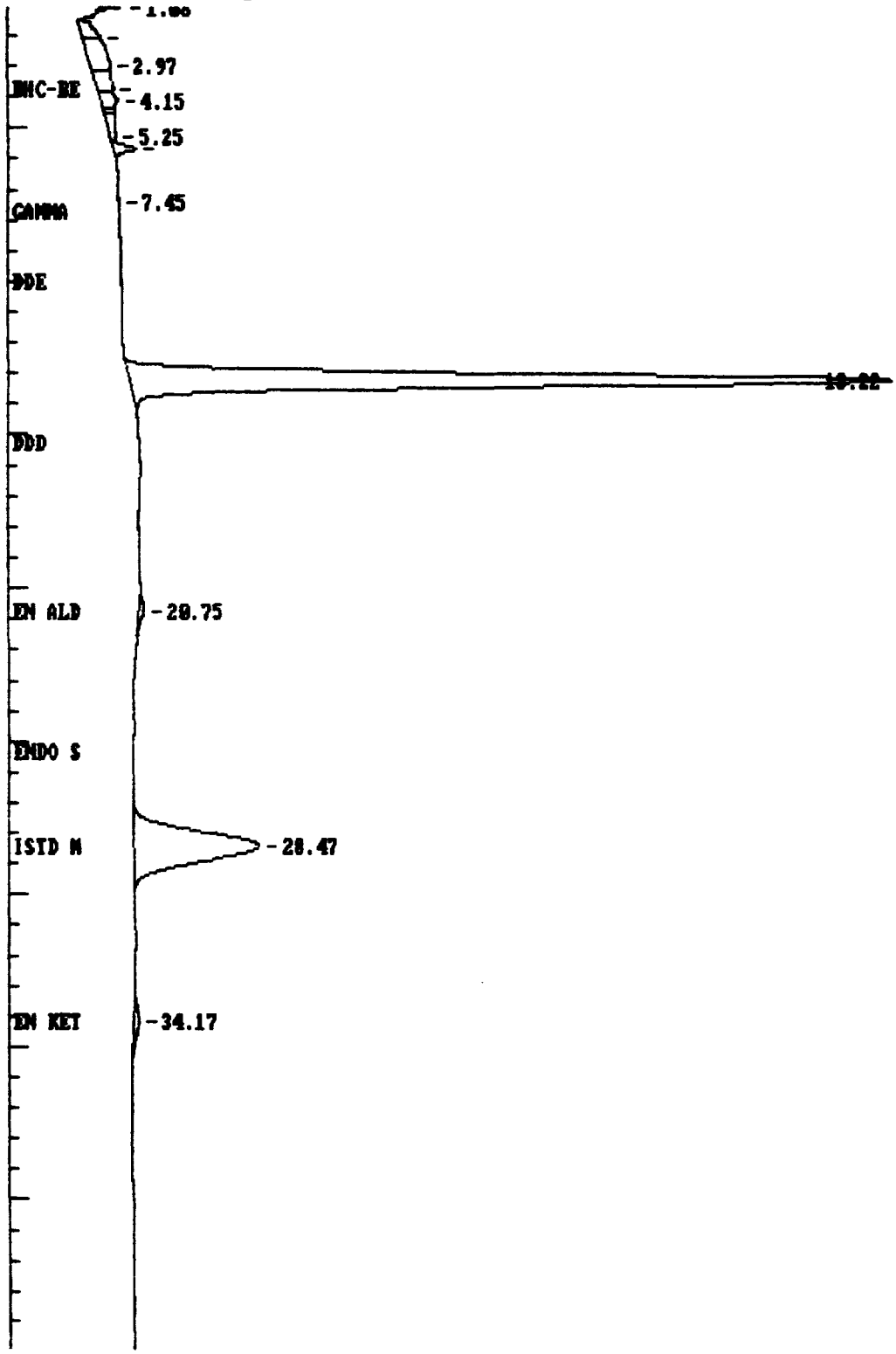
* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: SCRN: * *

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 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
4	3.78	BHC-BETA	0.0021	1003.3795%	381606	8461	45.1	2	4	11	0	5.4265E-09
5	4.15	BHC-DELTA	0.0012	592.8478%	251084	9132	27.5	2	5	11	0	4.8730E-09
8	7.45	GAMMA CHLORDANE	-0.0014	-669.2351%	4637	331	14.0	1	5	11	-3.270	-2.9789E-07
10	20.75	EN ALDEHYDE	0.0004	193.1694%	168181	3130	53.7	1	10	11	0	2.3704E-09
11	28.47	ISTD MIREX	1.0000	0.0000%	4546940	69161	65.7	1	11	11	0	2.1993E-07
12	34.17	EN KETONE	-0.0021	-1020.1616%	182069	2769	65.8	1	12	11	0	-1.1564E-08

TOTAL AMOUNT = 0.0002

Data File = P:1SF38.PTS Printed on 07-24-1990 at 10:17:24
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 100044 uv High Value: 546921 uv Scale factor: 1.0



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

********** 07-24-1990 10:23:23 Version 4.1 **********

* Sample Name: DEG ENDRIN Data File: P:1SF38 *
* Date: 07-18-1990 16:36:07 Method: P:PESA 07-24-1990 08:10:24 # 103 *
* Interface: 0 Cycle#: 38 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: SCRN: * *

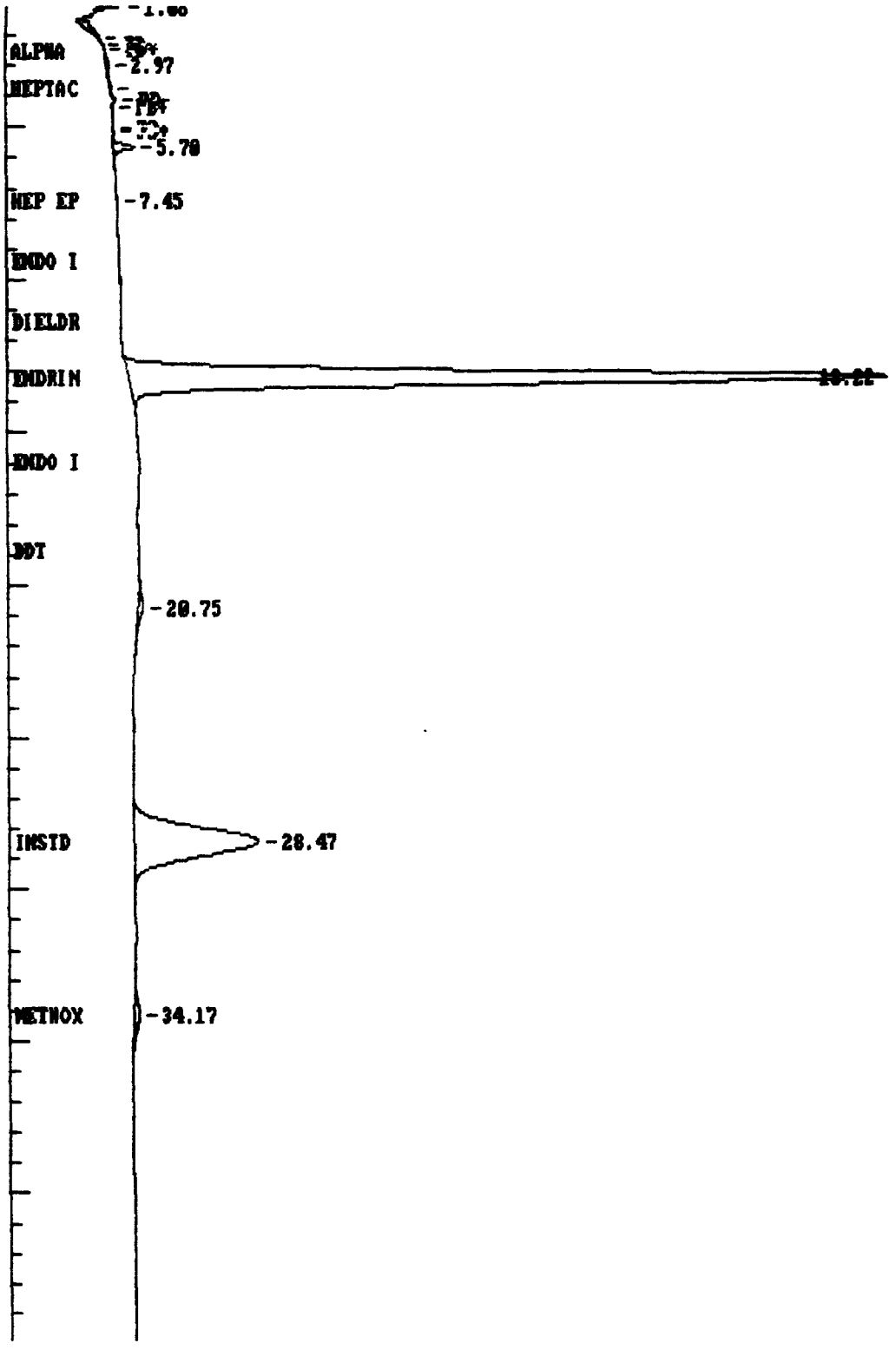
****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 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
4	3.78	HEPTACHLOR	0.0001	0.0710%	21905	568	38.6	2	4	9	0	3.0177E-09
6	7.45	HEP EPOX	-0.0003	-0.3058%	4637	331	14.0	1	6	9	0	-6.1393E-08
7	13.22	ENDRIN	0.0903	97.0071%	12264036	419299	29.2	1	7	9	0	7.3619E-09
9	28.47	INSTD MIREX	1.0000	0.0000%	4546940	69161	65.7	1	9	9	0	2.1993E-07
10	34.17	METHOXYCHLOR	0.0030	3.2278%	182069	2769	65.8	1	10	9	0	1.6500E-08

TOTAL AMOUNT = 0.0931

Data File = F:1SF38.PTS Printed on 07-24-1990 at 10:23:38
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 100044 uv High Value: 546921 uv Scale factor: 1.0



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

********** 07-24-1990 10:19:37 Version 4.1 **********

* Sample Name: DEG DDT Data File: P:1SF39 *
* Date: 07-18-1990 17:23:25 Method: P:1PESTB 07-23-1990 09:00:11 # 72 *
* Interface: 0 Cycle#: 39 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: SCRN: * *

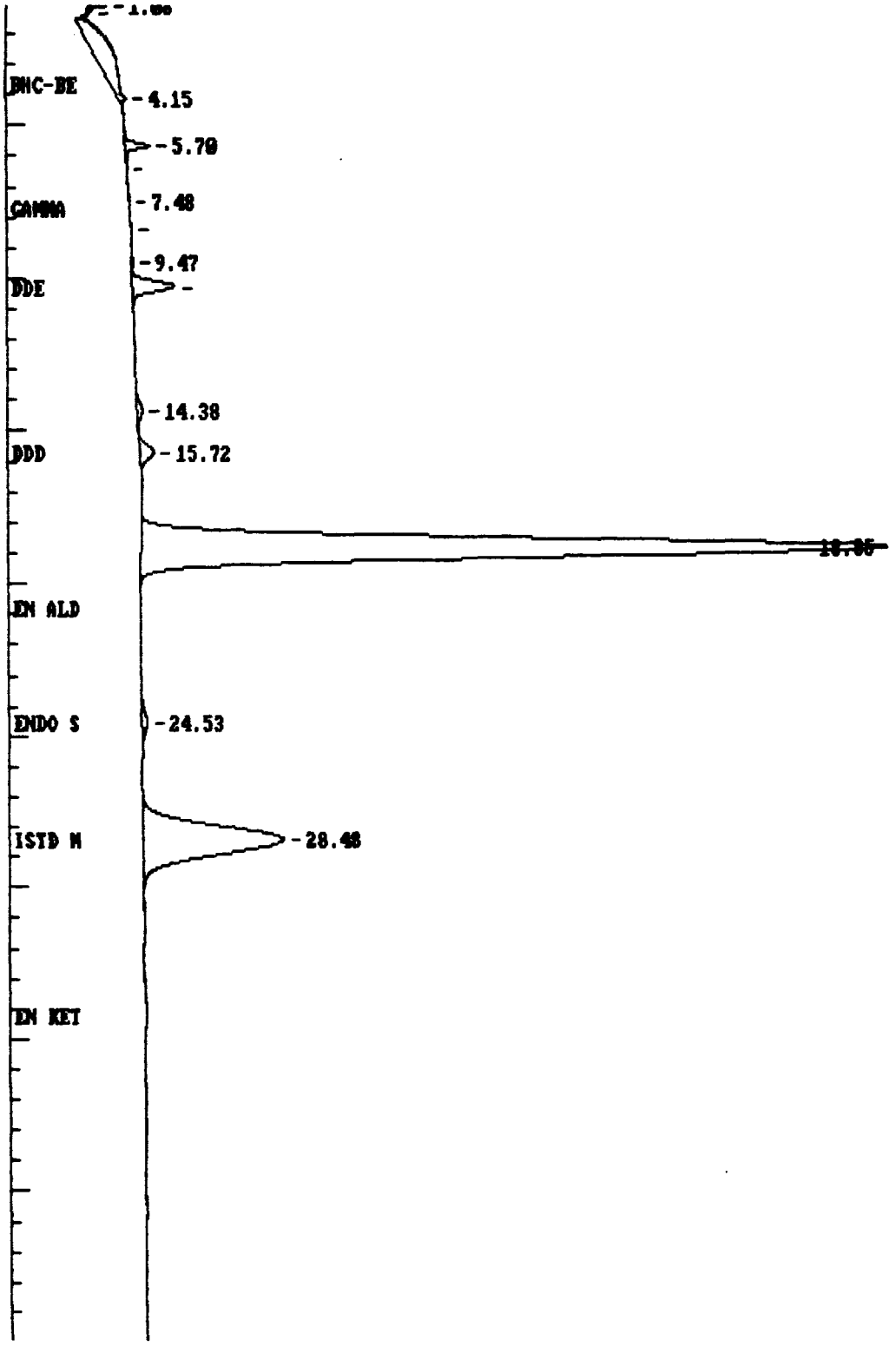
****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 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
3	4.15	BHC-DELTA	0.0061	95.8455%	1083089	3294	328.8	1	3	14	0	5.6102E-09
6	7.48	GAMMA CHLORDANE	-0.0013	-20.5653%	18857	374	50.4	1	3	14	-2.837	-6.9143E-08
7	8.40	ALPHA CHLORDANE	-0.0012	-18.9155%	5677	307	18.5	1	7	14	0	-2.1124E-07
9	10.28	DDE	0.0021	33.0940%	478580	20724	23.1	1	9	14	0	4.3840E-09
11	15.72	DDD	0.0004	6.5051%	251539	6957	36.2	1	11	14	0	1.6395E-09
13	24.53	ENDO SULFATE	0.0003	4.0361%	125146	2380	52.6	1	13	14	0	2.0446E-09
14	28.48	ISTD MIREX	1.0000	0.0000%	4548415	69445	65.5	1	14	14	0	2.1986E-07

TOTAL AMOUNT = 0.0063

Data File = F:1SF39.PTS Printed on 07-24-1990 at 10:19:55
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 99160 uv High Value: 500273 uv Scale factor: 1.0



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

********** 07-24-1990 10:24:35 Version 4.1 **********

Sample Name: DEG DDT Data File: P:1SF39

Date: 07-18-1990 17:23:25 Method: P:PESA 07-24-1990 08:10:24 # 103

Interface: 0 Cycle#: 39 Operator AK Channel#: 0 Vial#: N.A.

Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000

Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE

Solvent Description: ULTRA HIGH PURITY NITROGEN

Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C

Detector 0: ECD QUANT Detector 1:

Misc. Information: SCRN:

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 1.00

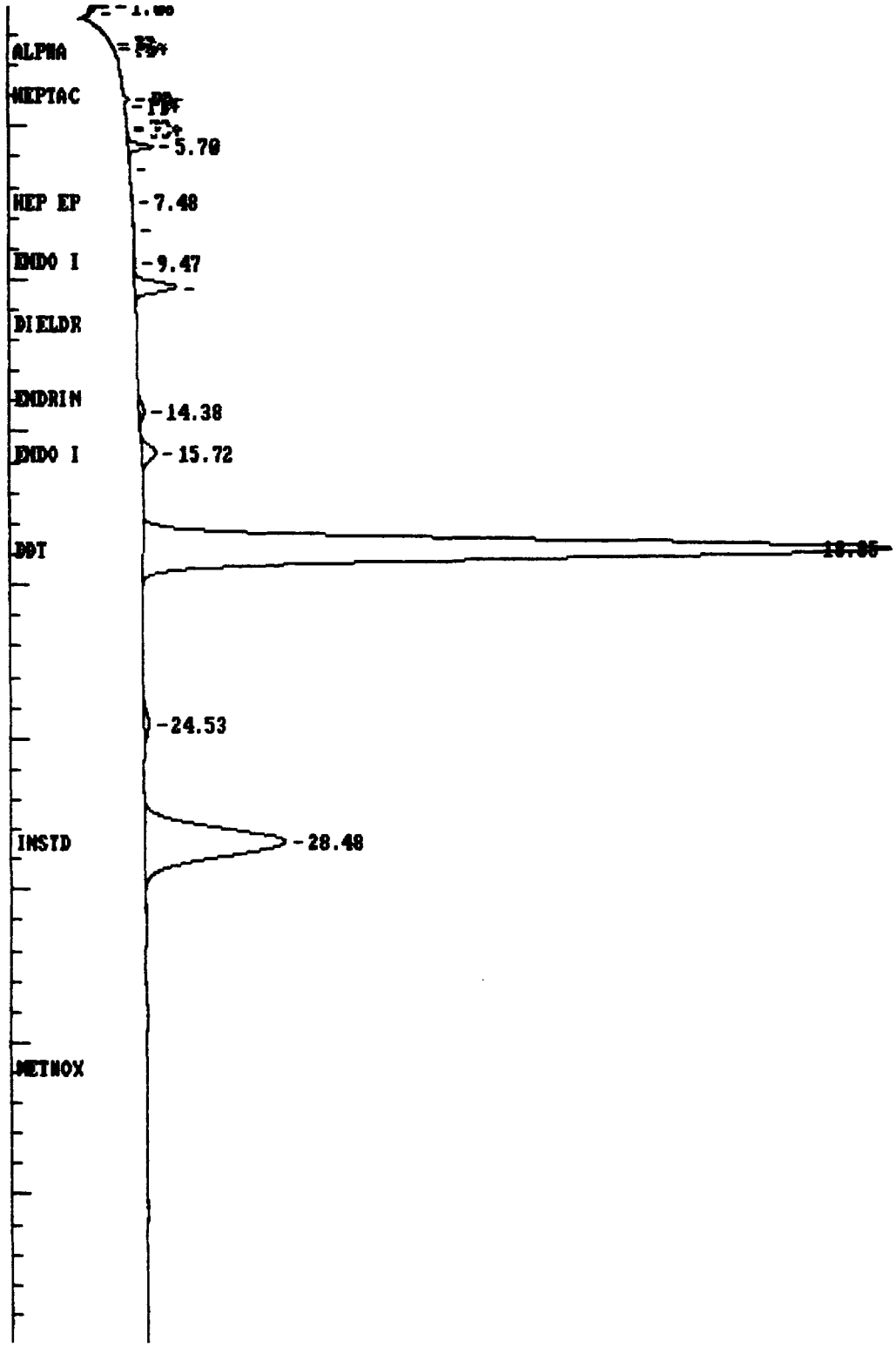
Internal Standard Amount: 1

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
5	7.48	HEP EPOX	-0.0002	-0.2204%	18857	374	50.4	1	5	13	0	-1.1143E-08
7	9.47	ENDO I	-0.0002	-0.2610%	9199	519	17.7	1	5	13	.6383	-2.7050E-08
9	14.38	ENDRIN	0.0010	1.0178%	96810	2687	36.0	1	5	13	3.476	1.0023E-08
10	15.72	ENDO II	0.0018	1.8798%	251539	6957	36.2	1	10	13	0	7.1247E-09
11	18.85	DDT	0.0930	97.5838%	15596253	369891	42.2	1	11	13	0	5.9650E-09
13	28.48	INSTD MIREX	1.0000	0.0000%	4548415	69445	65.5	1	13	13	0	2.1986E-07

TOTAL AMOUNT = 0.0953

Data File = P:1SF39.PTS Printed on 07-24-1990 at 10:24:52
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 99160 uv High Value: 500273 uv Scale factor: 1.0



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

********** 07-24-1990 10:50:39 Version 4.1 **********

* Sample Name: DEG ENDRIN Data File: P:2SF18 *
* Date: 07-18-1990 00:50:30 Method: P:2PESTA 07-23-1990 09:52:51 # 88 *
* Interface: 0 Cycle#: 18 Operator AK Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10.02 Threshold: 1 Area Threshold: 100 *

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

Starting Delay: 1.00 Ending retention time: 45.00
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
5	4.19	HEPTACHLOR	0.0000	0.0142%	1089	116	9.4	1	5	12	0	1.1219E-08
7	6.31	HEP EPOX	0.0000	0.0533%	3765	293	12.9	1	7	12	0	1.2153E-08
8	10.40	ENDRIN + ENDO II	0.0826	96.3367%	6130405	248932	24.6	3	8	12	0	1.3476E-08
10	14.89	DDT	0.0031	3.5957%	115024	1695	67.9	2	10	12	0	2.6808E-08
12	27.85	INSTD MIREX	1.0000	0.0000%	2396783	39164	61.2	1	12	12	0	4.1723E-07

TOTAL AMOUNT = 0.0858

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

********** 07-24-1990 10:51:11 Version 4.1 **********

* Sample Name: DEG ENDRIN Data File: P:2SF18 *
* Date: 07-18-1990 00:50:30 Method: P:2PESTB 07-23-1990 09:51:14 # 65 *
* Interface: 0 Cycle#: 18 Operator AK Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10.02 Threshold: 1 Area Threshold: 100 *

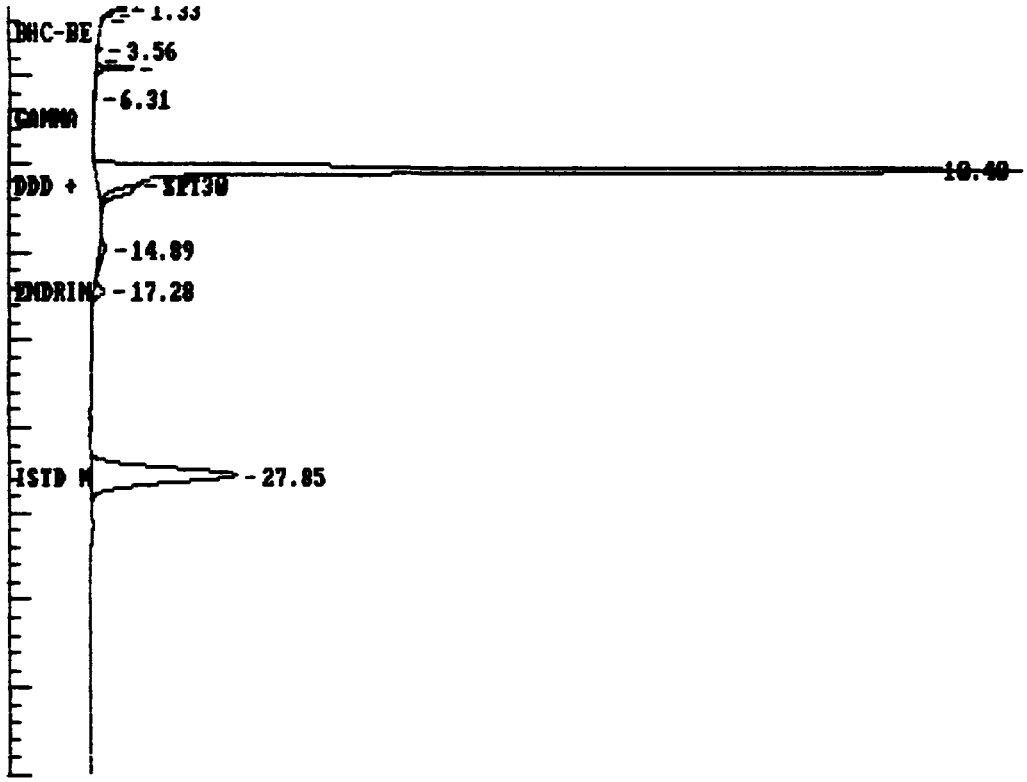
* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

Starting Delay: 1.00 Ending retention time: 45.00
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
9	11.30	DDD + EA	0.0037	72.2290%	258533	3465	74.6	4	9	12	0	1.4204E-08
11	17.28	ENDRIN KETONE	0.0014	27.7710%	109777	2849	38.5	2	11	12	0	1.2862E-08
12	27.85	ISTD MIREX	1.0000	0.0000%	2396783	39164	61.2	1	12	12	0	4.1723E-07

TOTAL AMOUNT = 0.0051

Data File = P:2SF18.PTS Printed on 07-24-1990 at 10:51:29
Start time: 1.00 min. Stop time: 45.00 min. Offset: 0 mv.
Low Value: 19151 uv High Value: 269464 uv Scale factor: 1.0



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

********** 07-24-1990 10:39:04 Version 4.1 **********

* Sample Name: DEG DDT Data File: P:2SF20 *
* Date: 07-18-1990 02:25:07 Method: P:2PESTA 07-23-1990 09:52:51 # 88 *
* Interface: 0 Cycle#: 20 Operator AK Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

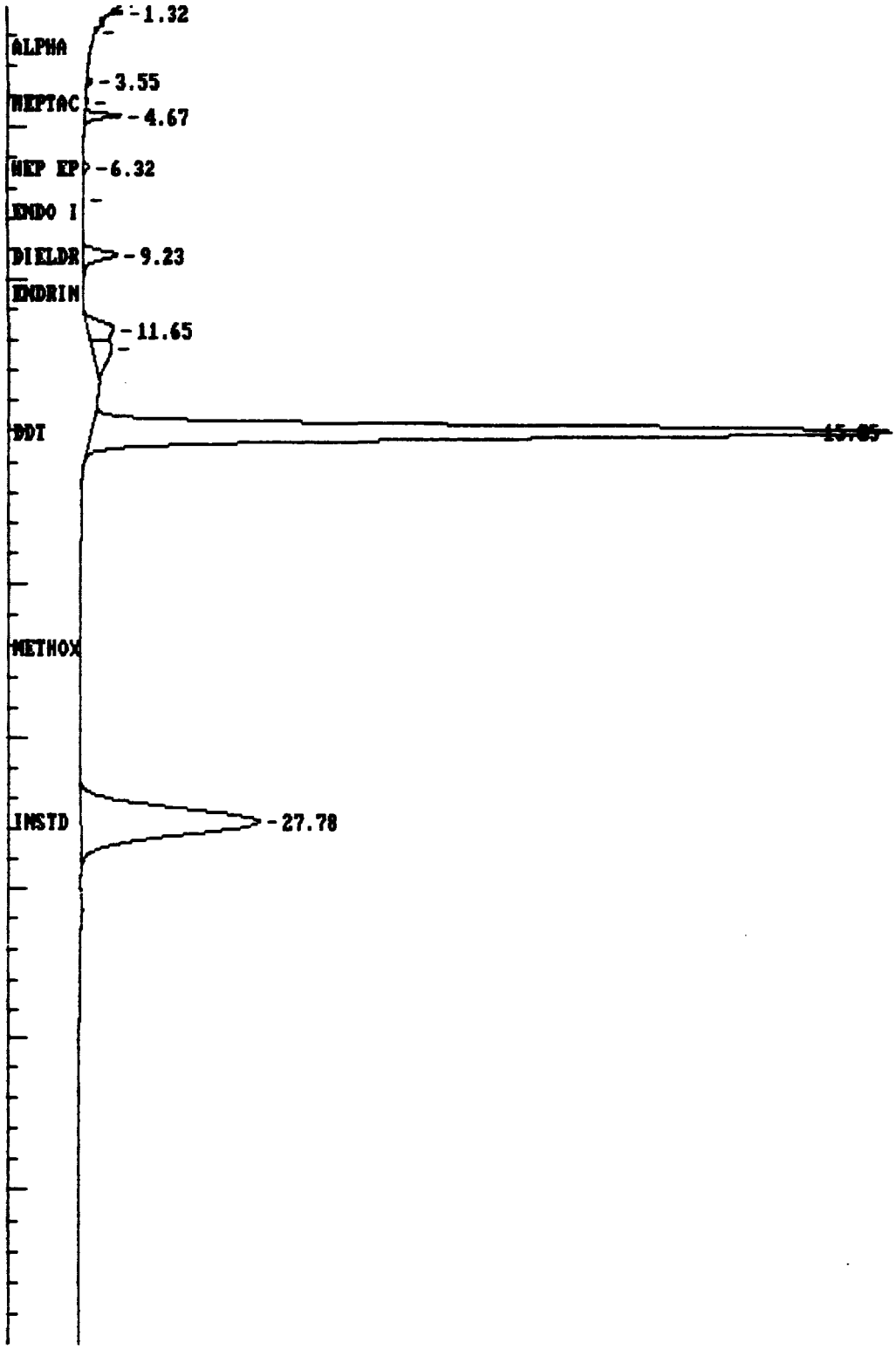
****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 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
4	4.20	HEPTACHLOR	0.0001	0.0378%	4673	419	11.2	2	4	12	0	1.1590E-08
6	6.32	HEP EPOX	0.0003	0.1749%	19945	1249	16.0	1	6	12	0	1.2555E-08
8	9.23	DIELDRIN	0.0021	1.4707%	155021	7171	21.6	1	8	12	0	1.3581E-08
11	15.05	DDT	0.1407	98.3166%	5082076	170021	29.9	1	11	12	0	2.7695E-08
12	27.78	INSTD MIREX	1.0000	0.0000%	2320029	38112	60.9	1	12	12	0	4.3103E-07

TOTAL AMOUNT = 0.1432

Data File = P:2SF20.PTS Printed on 07-24-1990 at 10:39:21
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 19235 uv High Value: 191816 uv Scale factor: 1.0

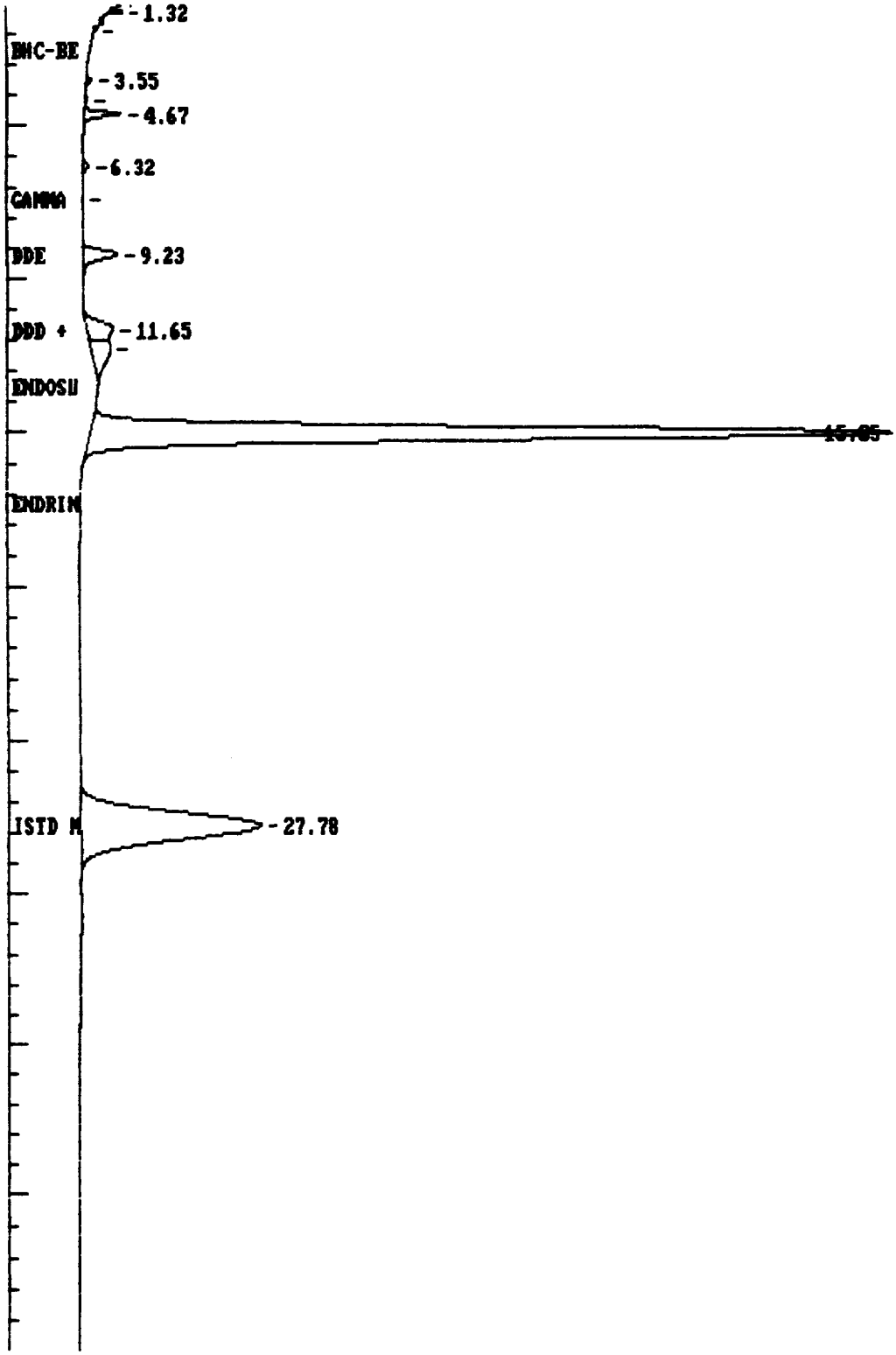


```
*****   INTERNAL STANDARD TABLE   *****
******************** 07-24-1990 10:37:54 Version 4.1 **********************
* Sample Name: DEG DDT                          Data File: P:2SF20        *
* Date: 07-18-1990 02:25:07 Method: P:2PESTB  07-23-1990 09:51:14  #  65  *
* Interface: 0   Cycle#:  20   Operator AK  Channel#: 1    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: MIXED/SINGLE         *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C                 *
*            Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information:                                                      *
*************************************************************************
Starting Delay:    1.00                      Ending retention time:   45.00
Area reject:        0                        One sample per   1.000 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
7	7.38	GAMMA CHLORDANE	0.0000	0.5461%	2745	186	14.8	1	7	12	0	9.8978E-09
8	9.23	DDE	0.0023	46.1007%	155021	7171	21.6	1	8	12	0	1.4795E-08
9	11.65	DDD + EA	0.0027	53.3532%	180886	5572	32.5	2	9	12	0	1.4674E-08
12	27.78	ISTD MIREX	1.0000	0.0000%	2320029	38112	60.9	1	12	12	0	4.3103E-07

TOTAL AMOUNT = 0.0050

Data File = P:2SF20.PTS Printed on 07-24-1990 at 10:38:12
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 19235 uv High Value: 191816 uv Scale factor: 1.0



NEW TIMED EVENTS FROM P:DEG

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

********** 07-24-1990 11:04:42 Version 4.1 **********

* Sample Name: DEG ~~DDT~~ Endrin Data File: P:2SF39 *

* Date: 07-18-1990 17:23:24 Method: P:2PESTA 07-23-1990 09:52:51 # 88 *

* Interface: 0 Cycle#: 39 Operator AK Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10.02 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *

* Detector 0: ECD QUANT Detector 1: *

* Misc. Information: SCRN: * *

****

Starting Delay: 1.00 Ending retention time: 45.00

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
6	6.31	HEP EPOX	0.0001	0.0740%	5210	400	13.0	1	6	12	0	1.3560E-08
7	10.42	ENDRIN + ENDO II	0.0921	96.4615%	6125652	255212	24.0	3	7	12	0	1.5037E-08
9	14.89	DDT	0.0033	3.4645%	110599	1675	66.0	2	9	12	0	2.9912E-08
12	27.87	INSTD MIREX	1.0000	0.0000%	2148029	35565	60.4	1	12	12	0	4.6554E-07

TOTAL AMOUNT = 0.0955

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

********** 07-24-1990 11:05:22 Version 4.1 **********

* Sample Name: DEG ~~DDT~~ Endrin Data File: P:2SF39 *

* Date: 07-18-1990 17:23:24 Method: P:2PESTB 07-23-1990 09:51:14 # 65 *

* Interface: 0 Cycle#: 39 Operator AK Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10.02 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *

* Detector 0: ECD QUANT Detector 1: *

* Misc. Information: SCRN: * *

****

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

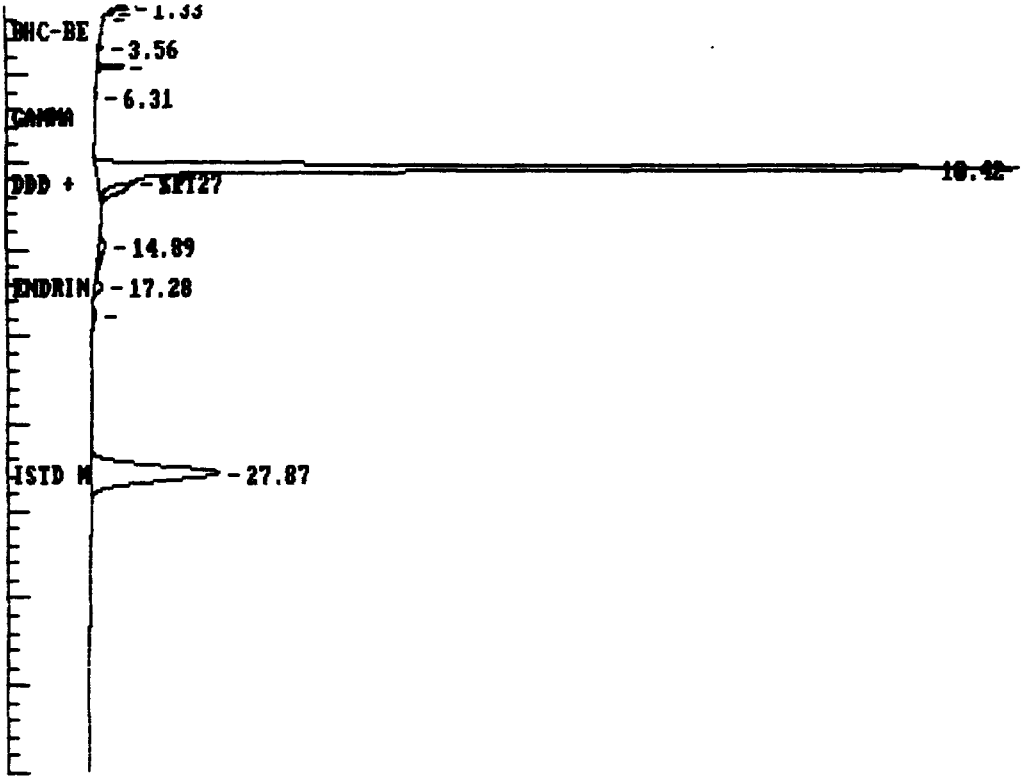
Internal Standard Amount: 1

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
8	11.27	DDD + EA	0.0038	75.3913%	241522	3488	69.2	4	8	12	0	1.5849E-08
10	17.28	ENDRIN KETONE	0.0012	24.6087%	87064	2281	38.2	2	10	12	0	1.4351E-08
12	27.87	ISTD MIREX	1.0000	0.0000%	2148029	35565	60.4	1	12	12	0	4.6554E-07

TOTAL AMOUNT = 0.0051

Data File = P:2SF39.PTS Printed on 07-24-1990 at 11:05:43
Start time: 1.00 min. Stop time: 45.00 min. Offset: 0 mv.
Low Value: 22763 uv High Value: 280411 uv Scale factor: 1.0



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

********** 07-24-1990 12:24:24 Version 4.1 **********

* Sample Name: ~~PEST STD A LEVEL 3~~ Dy DDT Data File: P:2SF40 *

* Date: 07-18-1990 18:10:41 Method: P:1PESTA 07-23-1990 09:52:51 # 88 *

* Interface: 0 Cycle#: 40 Operator AK Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *

* Detector 0: ECD QUANT Detector 1: *

* Misc. Information: SCRN: * *

****

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 1.00

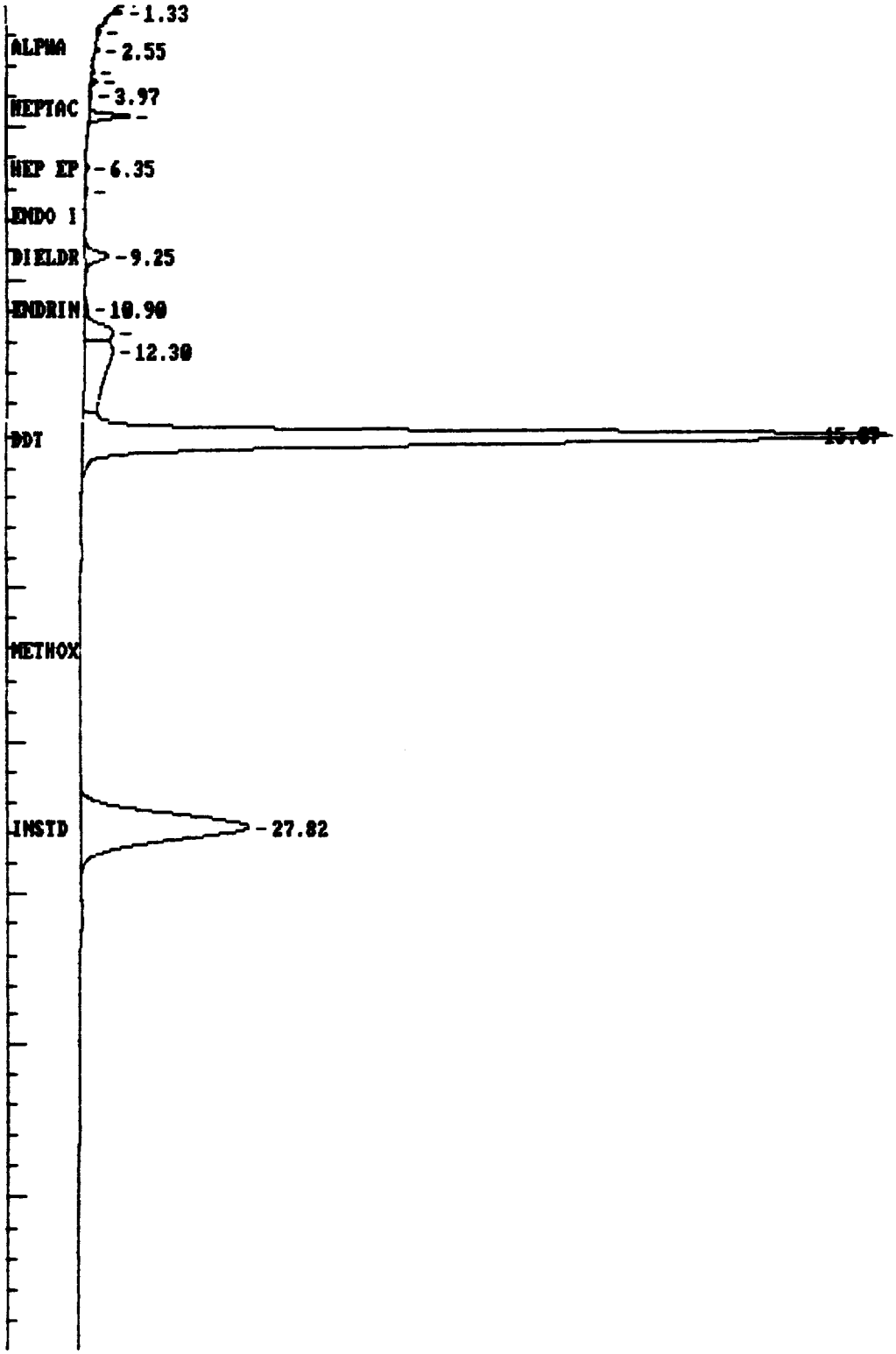
Internal Standard Amount: 1

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
8	6.35	HEP EPOX	0.0001	0.0768%	8762	536	16.4	1	8	15	0	1.3919E-08
10	9.25	DIELDRIN	0.0016	1.0353%	109260	4708	23.2	1	10	15	0	1.5056E-08
11	10.90	ENDRIN + ENDO II	0.0001	0.0921%	9477	424	22.3	2	11	15	0	1.5434E-08
14	15.07	DDT	0.1570	98.7959%	5113084	166804	30.7	2	14	15	0	3.0703E-08
15	27.82	INSTD MIREX	1.0000	0.0000%	2092715	34698	60.3	1	15	15	0	4.7785E-07

TOTAL AMOUNT = 0.1589

Data File = P:2SF40.PTS Printed on 07-24-1990 at 12:24:39
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 22099 uv High Value: 190112 uv Scale factor: 1.0



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

********** 07-24-1990 12:32:40 Version 4.1 **********

* Sample Name: ~~PEST STD A LEVEL 3~~ Dy DDT Data File: P:2SF40 *

* Date: 07-18-1990 18:10:41 Method: P:2PESTB 07-23-1990 09:51:14 # 65 *

* Interface: 0 Cycle#: 40 Operator AK Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *

* Detector 0: ECD QUANT Detector 1: *

* Misc. Information: SCRN: * *

****

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 1.00

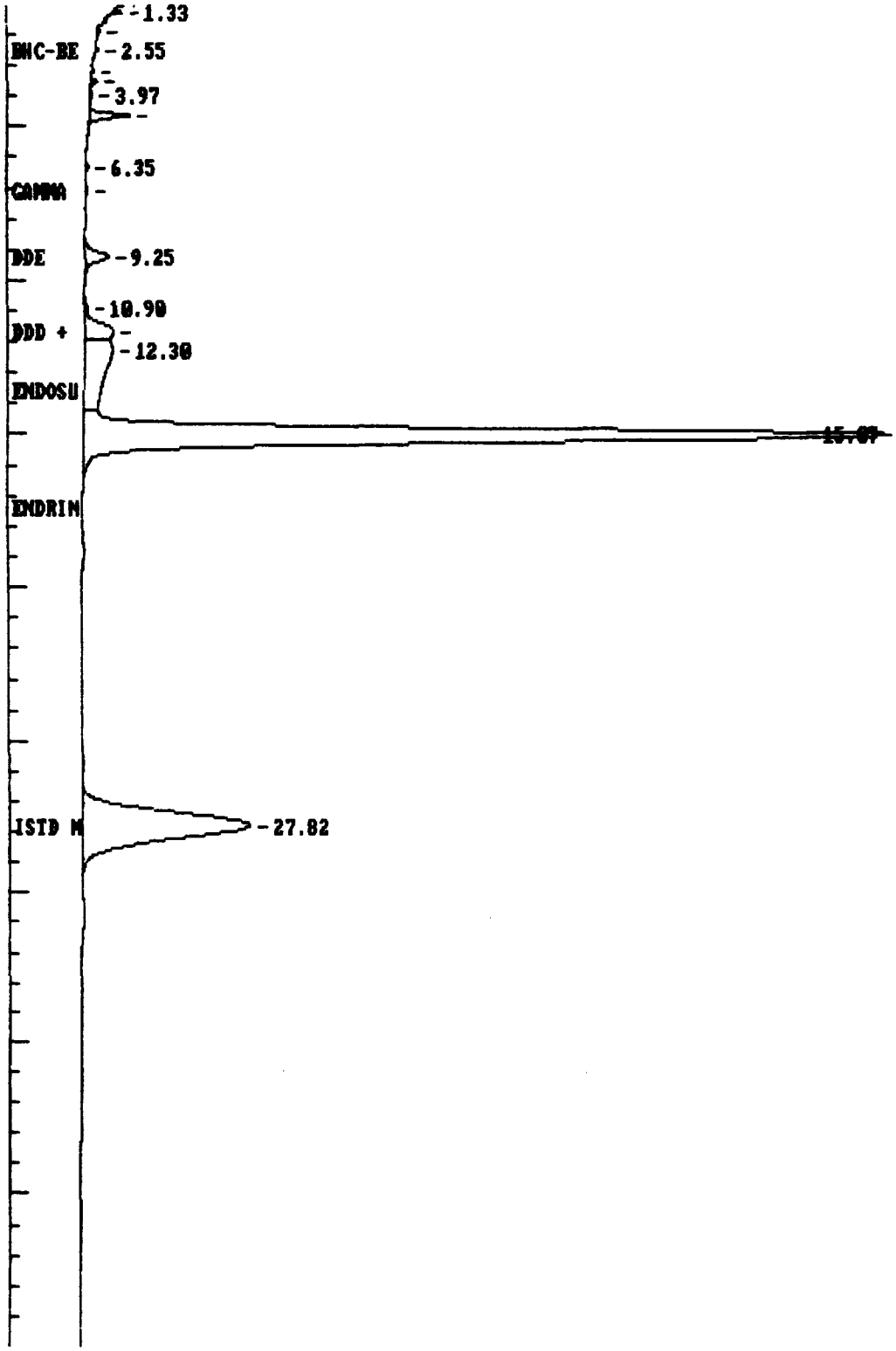
Internal Standard Amount: 1

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
3	2.55	BHC-BETA	0.0001	1.7204%	4619	789	5.9	1	3	15	0	1.8879E-08
9	7.13	GAMMA CHLORDANE	0.0001	1.5697%	7250	469	15.5	1	9	15	0	1.0973E-08
10	9.25	DDE	0.0018	35.3593%	109260	4708	23.2	1	10	15	0	1.6402E-08
12	11.68	DDD + EA	0.0031	61.3506%	191132	5853	32.7	2	12	15	0	1.6268E-08
15	27.82	ISTD MIREX	1.0000	0.0000%	2092715	34698	60.3	1	15	15	0	4.7785E-07

TOTAL AMOUNT = 0.0051

Data File = P:2SF40.PTS Printed on 07-24-1990 at 12:32:57
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 22099 uv High Value: 190112 uv Scale factor: 1.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CENTRAL REGIONAL LABORATORY CHGO ILL.
AQC

A1.....T3

DATASET: SF 7262 DATE: 07-25-90

SPIKES:	ADDED	SPIKE RESULT	DUP RESULT	RPD	SPIKE REC.	DUP REC
LINDANE	0.060	0.052	0.052	0	87	87
HEPTACHLOR	0.060	0.044	0.046	-6	73	77
ALDRIN	0.100	0.070	0.077	-9	70	77
ENDOSULFAN 1	0.120	0.127	0.136	-7	106	113
DIELDRIN	0.120	0.119	0.117	2	99	98
ENDRIN	0.220	0.232 *	0.230	1	105	105
DDT 4 4'	0.300	0.306	0.299	2	102	100
METHOXYCHLOR	0.350	0.476	0.418	* 13	136	119
DBC	0.500	0.000	0.000	ERR	0	0
PCB 1242	3.000	2.400	2.360	2	80	79

* Peak integration for methoxychlor was not consistent between the 2 chromatograms. Spike rec. should have been lower had it been integrated the same way as spike duplicate. LE 7/31/90

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

CENTRAL REGIONAL LABORATORY REGION V CHICAGO IL.

TCMX SURROGATE RECOVERY

DATA SET NO: SF 7262

SAMPLE NAME	AMT ADDED	AMT FOUND	PERCENT RECOVERY
METHOD BLANK	0.23	0.08	34
PEST SPK S53	0.23	0.10	44
PEST SPK DUP S53	0.23	0.11	49
PCB SPK S53	0.23	0.10	46
PCB SPK DUP S53	0.23	0.11	48
90FT20S53	0.23	0.12	53
90FT20S54	0.23	0.12	52
90FT20D54	0.23	0.10	44
90FT02R95	0.23	0.12	52

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

********** 07-26-1990 10:25:52 Version 4.1 **********

* Sample Name: SOLVENT BLANK Data File: P:1SF18 *
* Date: 07-18-1990 00:50:31 Method: P:PESA 07-24-1990 08:10:24 # 103 *
* Interface: 0 Cycle#: 18 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

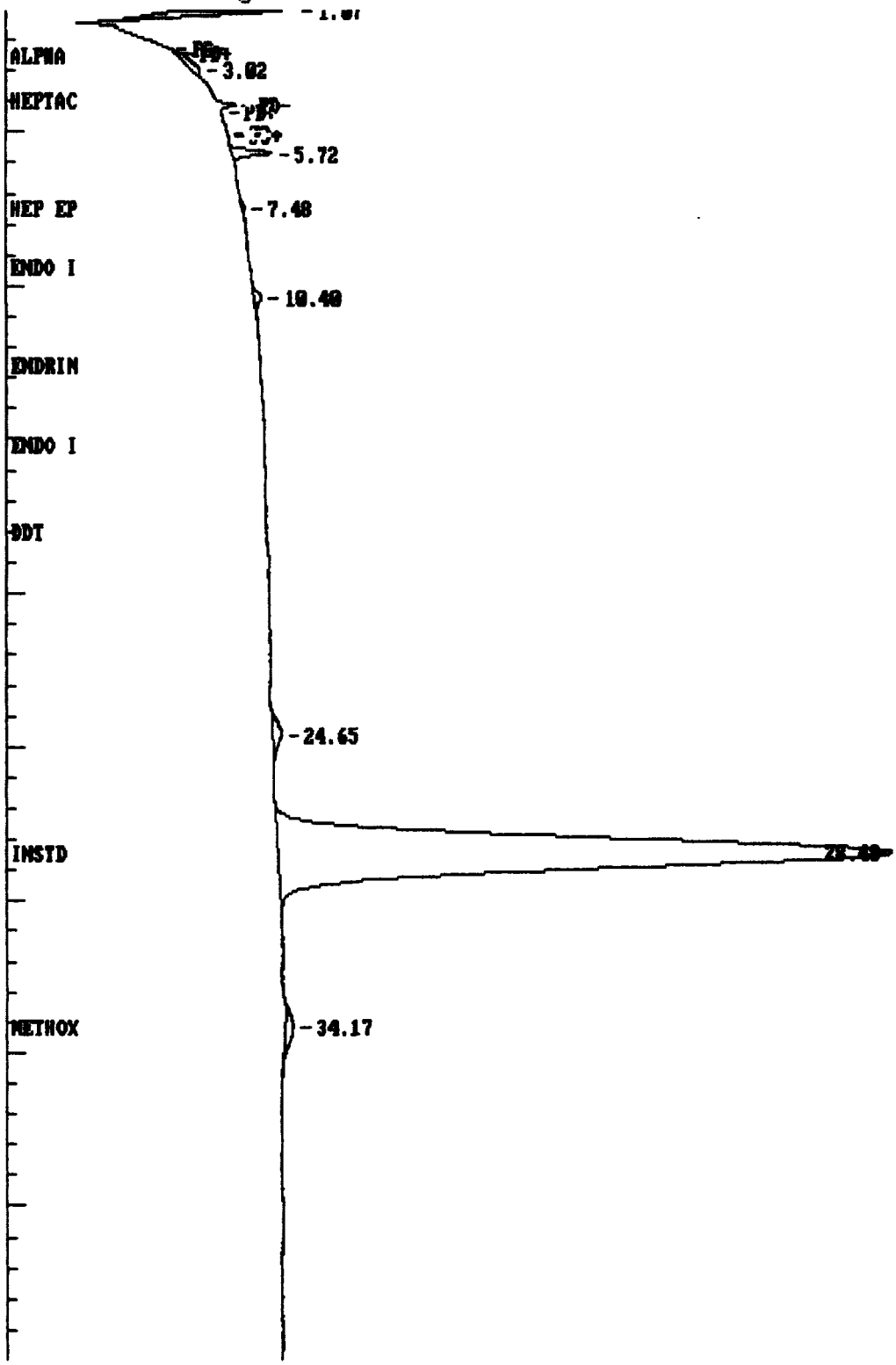
****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 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
4	7.48	HEP EPOX	-0.0003	-20.1182%	5178	358	14.5	1	4	7	0	-5.5335E-08
5	10.40	DIELDRIN	-0.0001	-8.8075%	21452	961	22.3	1	5	7	0	-5.8469E-09
7	28.48	INSTD MIREX	1.0000	0.0000%	5495654	82820	66.4	1	7	7	0	1.8196E-07
8	34.17	METHOXYCHLOR	0.0018	128.9257%	78351	1242	63.1	1	8	7	0	2.3433E-08

TOTAL AMOUNT = 0.0014

Data File = F:1SF18.PTS Printed on 07-26-1990 at 10:26:06
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 116362 uv High Value: 226337 uv Scale factor: 1.0



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

********** 07-25-1990 14:22:20 Version 4.1 **********

* Sample Name: METHOD BLANK 7262 Data File: P:1SF29 *
* Date: 07-18-1990 12:45:38 Method: P:PESA 07-24-1990 08:10:24 # 103 *
* Interface: 0 Cycle#: 29 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

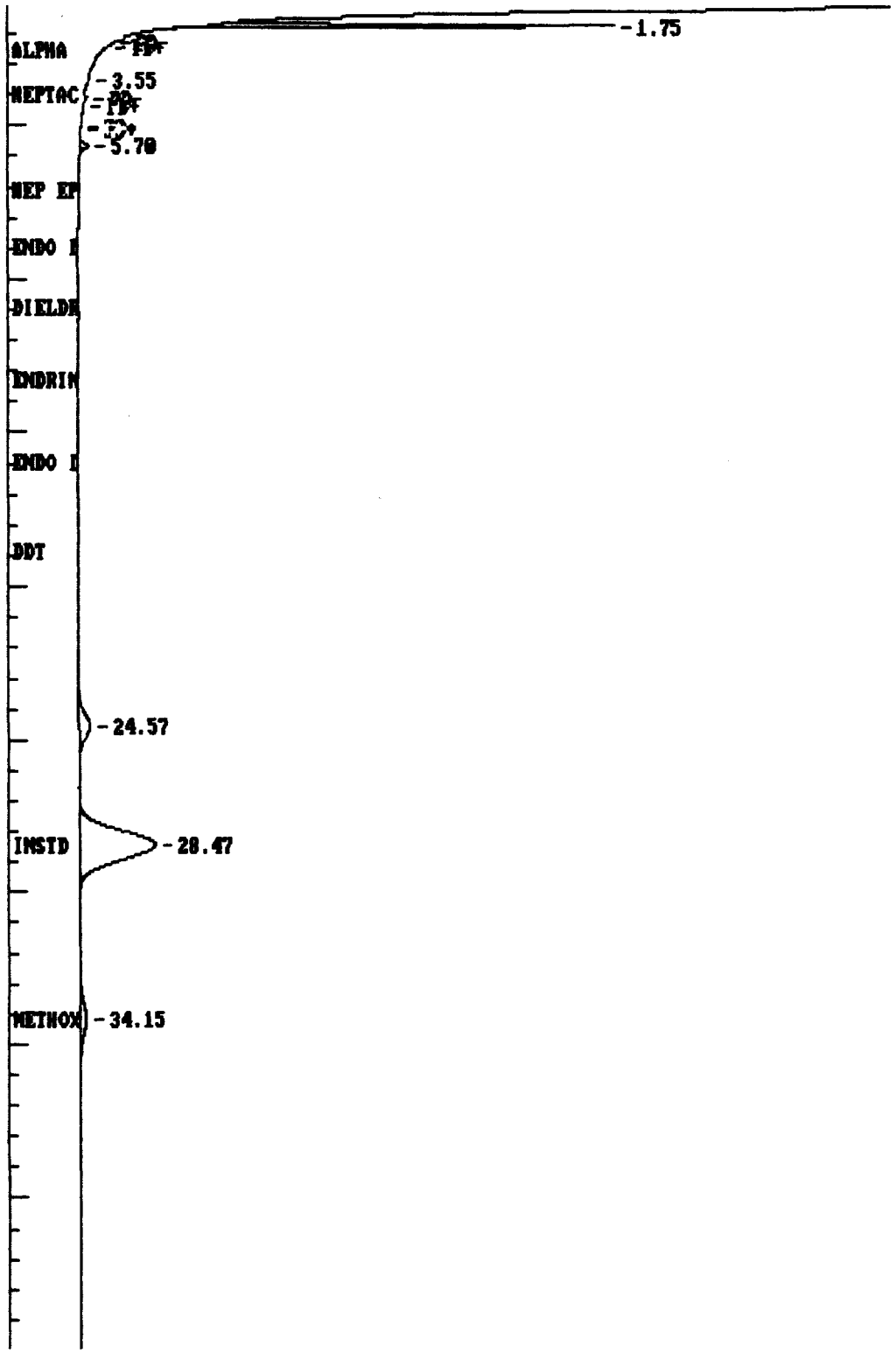
Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

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
5	28.47	INSTD MIREX	1.0000	0.0000%	4929720	74665	66.0	1	5	5	0	2.0285E-07
6	34.15	METHOXYCHLOR	0.0499	100.0000%	413823	5377	77.0	1	6	5	0	1.2066E-07

TOTAL AMOUNT = 0.0499

NC

Data File = P:1SF29.PTS Printed on 07-25-1990 at 14:22:33
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 130956 uv High Value: 938260 uv Scale factor: 1.0



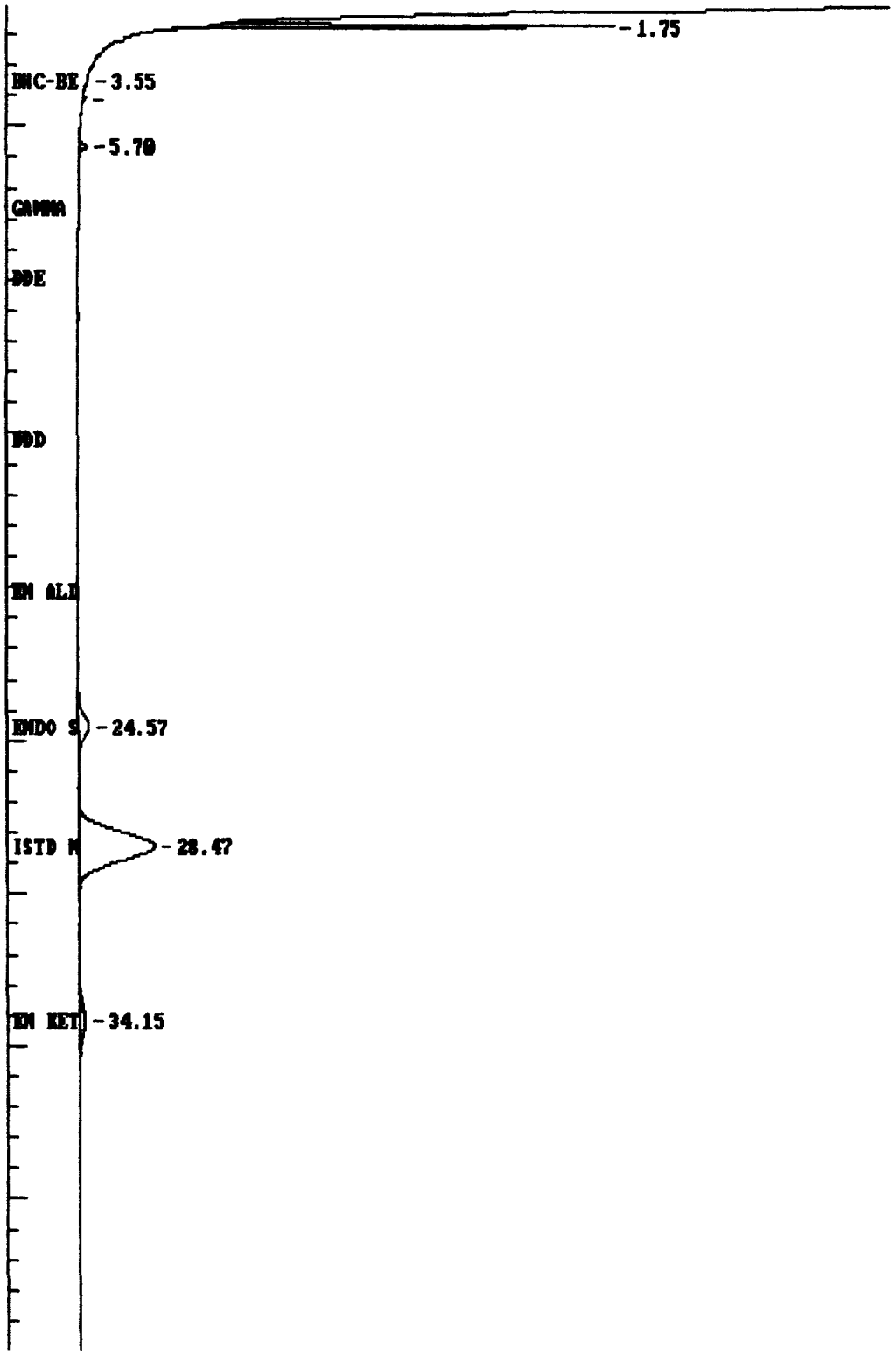
```
*****   INTERNAL STANDARD TABLE   *****
******************** 07-26-1990 08:05:55 Version 4.1 **********************
* Sample Name: METHOD BLANK 7262                Data File: P:1SF29        *
* Date: 07-18-1990 12:45:38 Method: P:1PESTB  07-23-1990 09:00:11  #  72  *
* Interface: 0   Cycle#:  29   Operator AK  Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: MIXED/SINGLE         *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C                 *
*            Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information:                                                      *
*************************************************************************
Starting Delay:    1.00                    Ending retention time:    45.00
Area reject:        0                      One sample per   1.000 sec.
Amount injected:        1.00               Dilution factor:       10.00
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	3.65	BHC-BETA	-0.0155	-101.5079%	10734	1260	8.5	1	2	6	0	-1.4455E-06
3	4.13	BHC-DELTA	-0.0012	-7.8208%	22679	2416	9.4	1	3	6	0	-5.2708E-08
5	24.57	ENDO SULFATE	0.0418	273.6815%	629249	10974	57.3	1	5	6	0	6.6477E-08
6	28.47	ISTD MIREX	1.0000	0.0000%	4929720	74665	66.0	1	6	6	0	2.0285E-07
7	34.15	EN KETONE	-0.0098	-64.3527%	413823	5377	77.0	1	7	6	0	-2.3769E-08

TOTAL AMOUNT = 0.0153

XC

Data File = P:1SF29.PTS Printed on 07-26-1990 at 08:06:12
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 130956 uv High Value: 938260 uv Scale factor: 1.0



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

********** 07-26-1990 07:46:52 Version 4.1 **********

* Sample Name: METHOD BLANK 7262 Data File: P:2SF30 *
* Date: 07-18-1990 12:48:22 Method: P:2PESTA 07-23-1990 09:52:51 # 88 *
* Interface: 0 Cycle#: 30 Operator AK Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

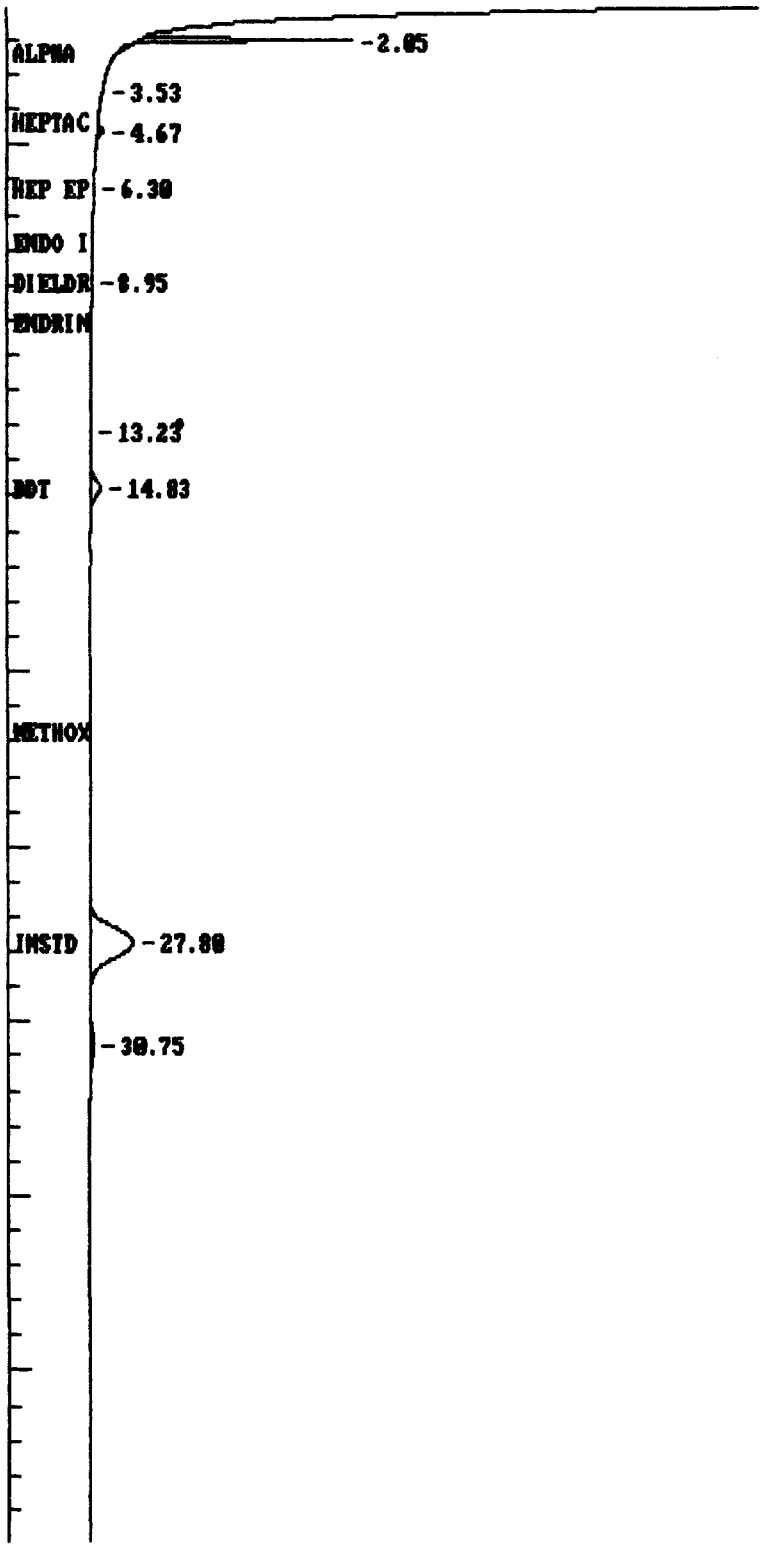
Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

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
4	~~6.30~~	~~HEP EPOX~~	0.0007	0.7548%	5227	426	12.3	1	4	8	0	1.2771E-07
5	~~8.95~~	~~DIELDRIN~~	0.0013	1.5104%	9669	480	20.2	1	5	8	0	1.3814E-07
7	~~14.83~~	~~DDT~~	0.0864	97.7348%	306824	8772	35.0	1	7	8	0	2.8170E-07
8	27.80	INSTD MIREX	1.0000	0.0000%	2280858	37642	60.6	2	8	8	0	4.3843E-07

TOTAL AMOUNT = 0.0884

not found on primary column

Data File = P:2SF30.PTS Printed on 07-26-1990 at 07:47:07
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 21537 uv High Value: 819113 uv Scale factor: 1.0



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

********** 07-26-1990 08:19:41 Version 4.1 **********

* Sample Name: METHOD BLANK 7262 Data File: P:2SF30 *
* Date: 07-18-1990 12:48:22 Method: P:2PESTB 07-23-1990 09:51:14 # 65 *
* Interface: 0 Cycle#: 30 Operator AK Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

****

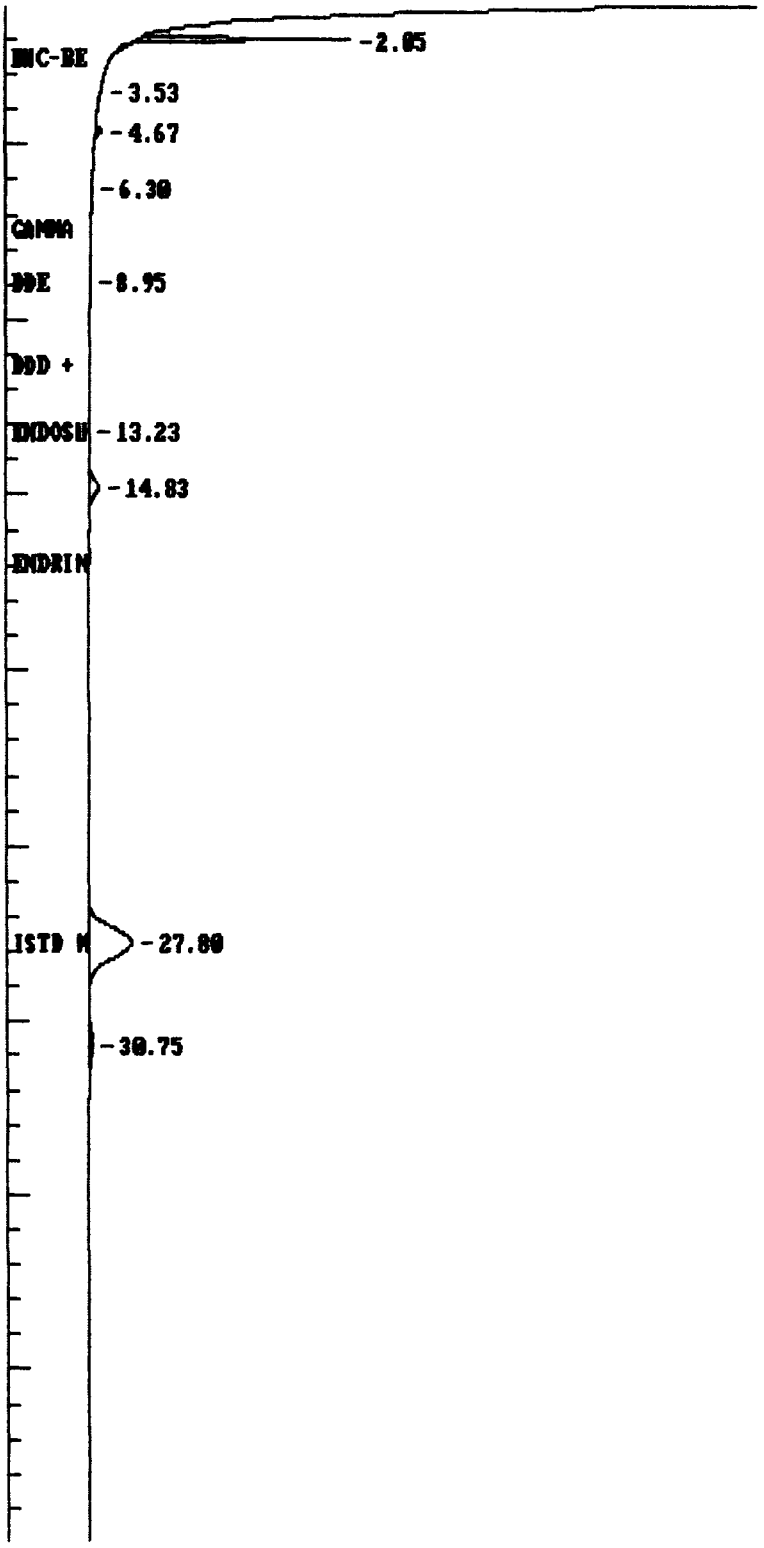
Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

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
5	~~8.95~~	~~DDE~~	0.0015	59.6823%	9669	480	20.2	1	5	8	0	1.5049E-07
6	~~13.23~~	~~ENDOSULFAN SO4~~	0.0010	40.3177%	4921	228	21.5	1	6	8	0	1.9975E-07
8	27.80	ISTD MIREX	1.0000	0.0000%	2280858	37642	60.6	2	8	8	0	4.3843E-07

TOTAL AMOUNT = 0.0024

area lower than lowest std

Data File = P:2SF30.PTS Printed on 07-26-1990 at 08:19:55
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 21537 uv High Value: 819113 uv Scale factor: 1.0

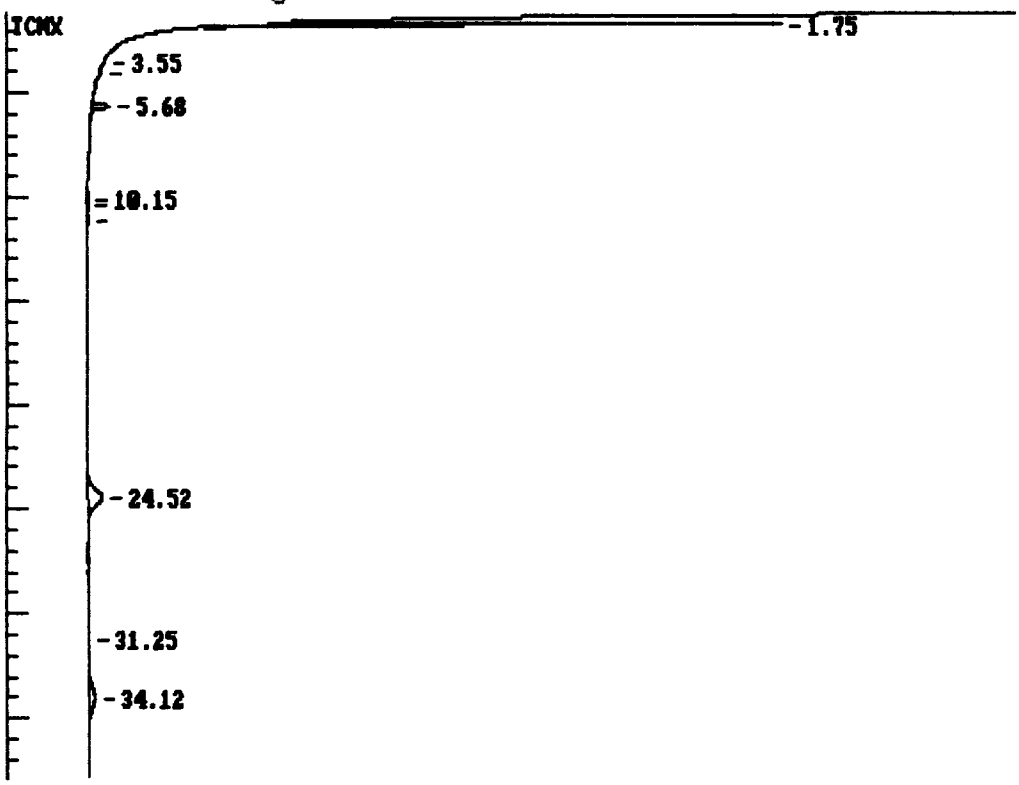


```
*****   EXTERNAL STANDARD TABLE   *****
******************** 07-26-1990 07:29:31 Version 4.1 **********************
* Sample Name: METHOD BLANK 7262                Data File: P:1TC16        *
* Date: 07-26-1990 02:21:44 Method: P:TCMXSTD  07-26-1990 07:15:08  #  13 *
* Interface: 0   Cycle#:  16   Operator AK  Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
***************************************************************************
* Instrument Type: HP 5890A #1          Column Type: MIXED/SINGLE         *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C                 *
*            Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information:                                                      *
***************************************************************************
Starting Delay:    1.00                      Ending retention time:   38.00
Area reject:        0                        One sample per   1.000 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
1	1.75	TCMX	0.0746	100.0000%	2041967	458093	4.5	1	1	0	3.6510E-08

TOTAL AMOUNT = 0.0746

Data File = P:1TC16.PTS Printed on 07-26-1990 at 07:29:43
Start time: 1.00 min. Stop time: 37.93 min. Offset: 0 mv.
Low Value: 126616 uv High Value: 937156 uv Scale factor: 1.0



62

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

********** 07-25-1990 14:23:25 Version 4.1 **********

* Sample Name: PEST SPK 90FT20S53 Data File: P:1SF30 *
* Date: 07-18-1990 12:48:23 Method: P:PESA 07-24-1990 08:10:24 # 103 *
* Interface: 0 Cycle#: 30 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

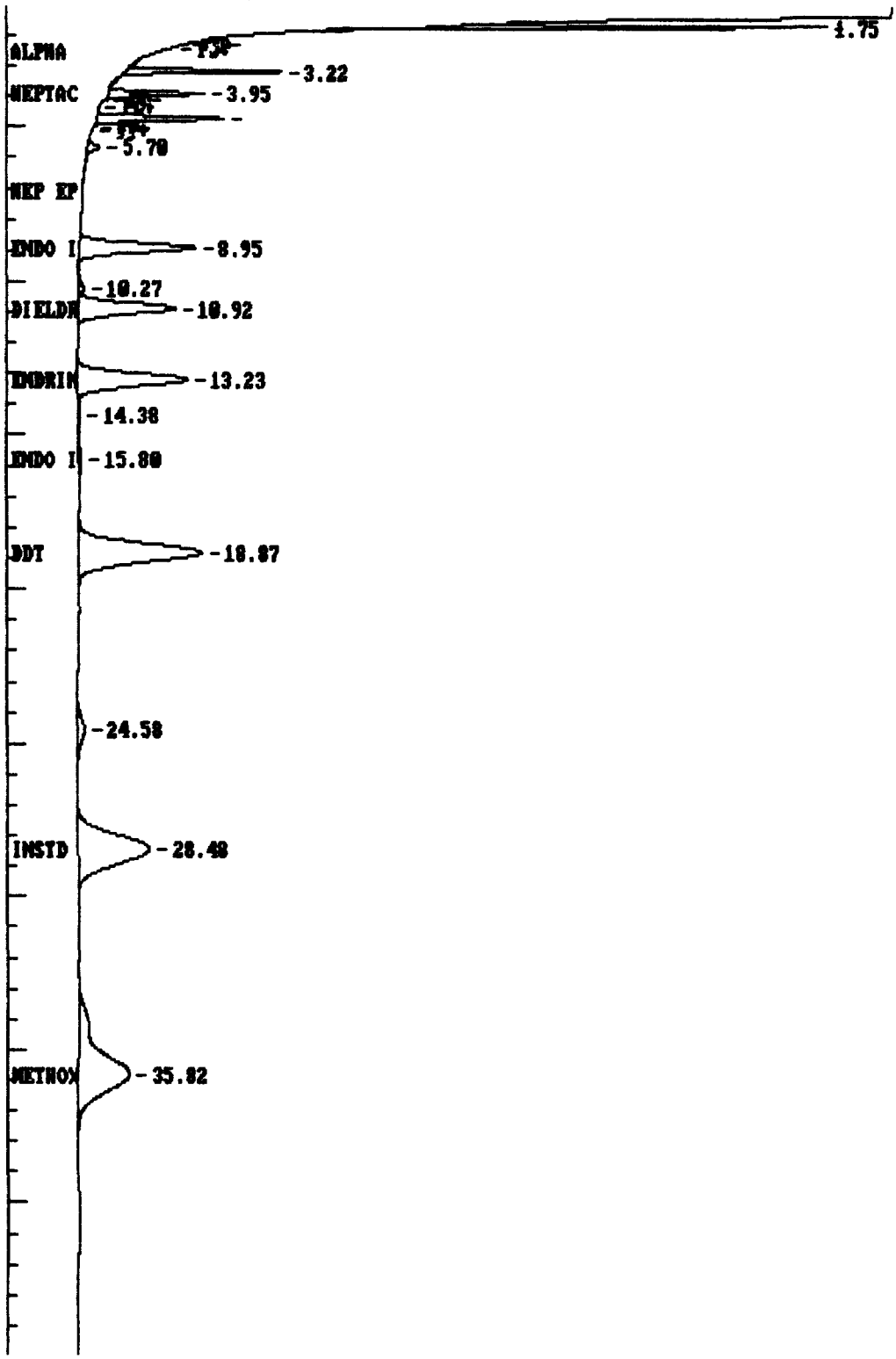
****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
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	3.22	LINDANE	0.0519	3.6003%	1104258	155849	7.1	1	2	14	0	4.6985E-08
3	3.95	HEPTACHLOR	0.0436	3.0286%	843188	95194	8.9	1	3	14	0	5.1762E-08
4	4.78	ALDRIN	0.0703	4.8805%	1344791	126821	10.6	1	4	14	0	5.2301E-08
6	8.95	ENDO I	0.1279	8.8734%	2380686	114877	20.7	1	6	14	0	5.3714E-08
8	10.92	DIELDRIN	0.1191	8.2667%	2330162	95926	24.3	2	8	14	0	5.1127E-08
9	13.23	ENDRIN	0.2324	16.1241%	3192246	109107	29.3	3	9	14	0	7.2792E-08
11	15.80	ENDO II	0.0135	0.9387%	165437	2929	56.5	2	11	14	0	8.1773E-08
12	18.87	DDT	0.3062	21.2472%	5072752	121842	41.6	1	12	14	0	6.0361E-08
14	28.48	INSTD MIREX	1.0000	0.0000%	4637237	70746	65.5	1	14	14	0	2.1565E-07
15	35.82	METHOXYCHLOR	0.4762	33.0406%	4752187	49924	95.2	1	15	14	0	1.0020E-07

TOTAL AMOUNT = 1.4411

Data File = P:1SF30.PTS Printed on 07-25-1990 at 14:23:47
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 131004 uv High Value: 940279 uv Scale factor: 1.0



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

********** 07-25-1990 14:24:42 Version 4.1 **********

* Sample Name: PEST SPK DUP 90FT20S53 Data File: P:1SF31 *
* Date: 07-18-1990 12:51:08 Method: P:PESA 07-24-1990 08:10:24 # 103 *
* Interface: 0 Cycle#: 31 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

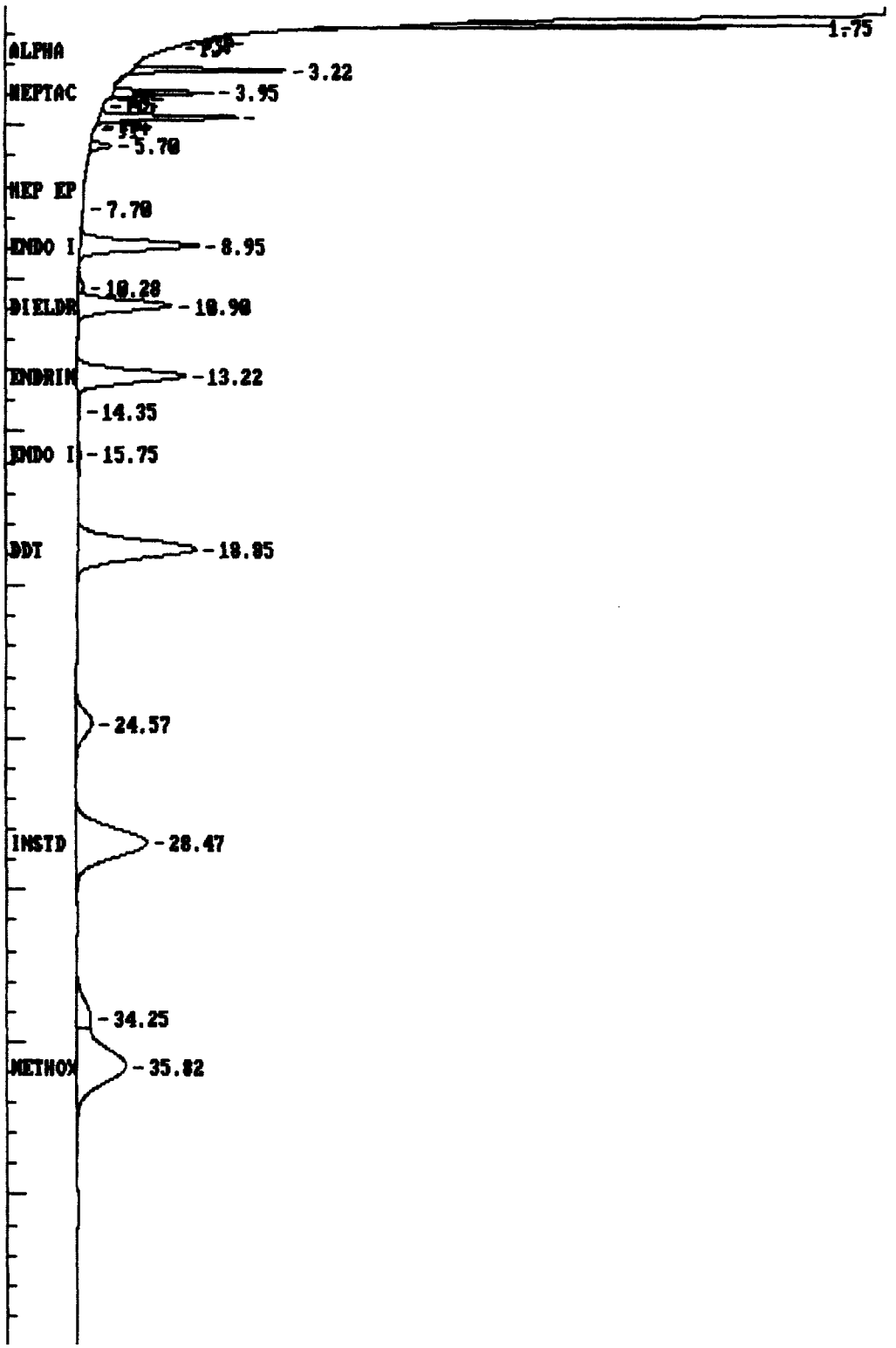
****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
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	3.22	LINDANE	0.0519	3.7389%	1095833	155925	7.0	1	2	15	0	4.7347E-08
3	3.95	HEPTACHLOR	0.0462	3.3277%	884743	99994	8.8	1	3	15	0	5.2194E-08
4	4.77	ALDRIN	0.0766	5.5179%	1451580	137685	10.5	1	4	15	0	5.2751E-08
7	8.95	ENDO I	0.1363	9.8237%	2514948	118039	21.3	1	7	15	0	5.4205E-08
9	10.90	DIELDRIN	0.1176	8.4762%	2283576	93932	24.3	2	9	15	0	5.1508E-08
10	13.22	ENDRIN	0.2303	16.5985%	3139836	108226	29.0	3	10	15	0	7.3360E-08
12	15.75	ENDO II	0.0101	0.7312%	94660	2084	45.4	1	12	15	0	1.0720E-07
13	18.85	DDT	0.2997	21.5993%	4922652	118442	41.6	1	13	15	0	6.0888E-08
15	28.47	INSTD MIREX	1.0000	0.0000%	4601793	70383	65.4	1	15	15	0	2.1731E-07
17	35.82	METHOXYCHLOR	0.4189	30.1866%	4134236	48868	84.6	2	17	15	0	1.0132E-07

TOTAL AMOUNT = 1.3877

Data File = P:1SF31.PTS Printed on 07-25-1990 at 14:25:03
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 130513 uv High Value: 940898 uv Scale factor: 1.0

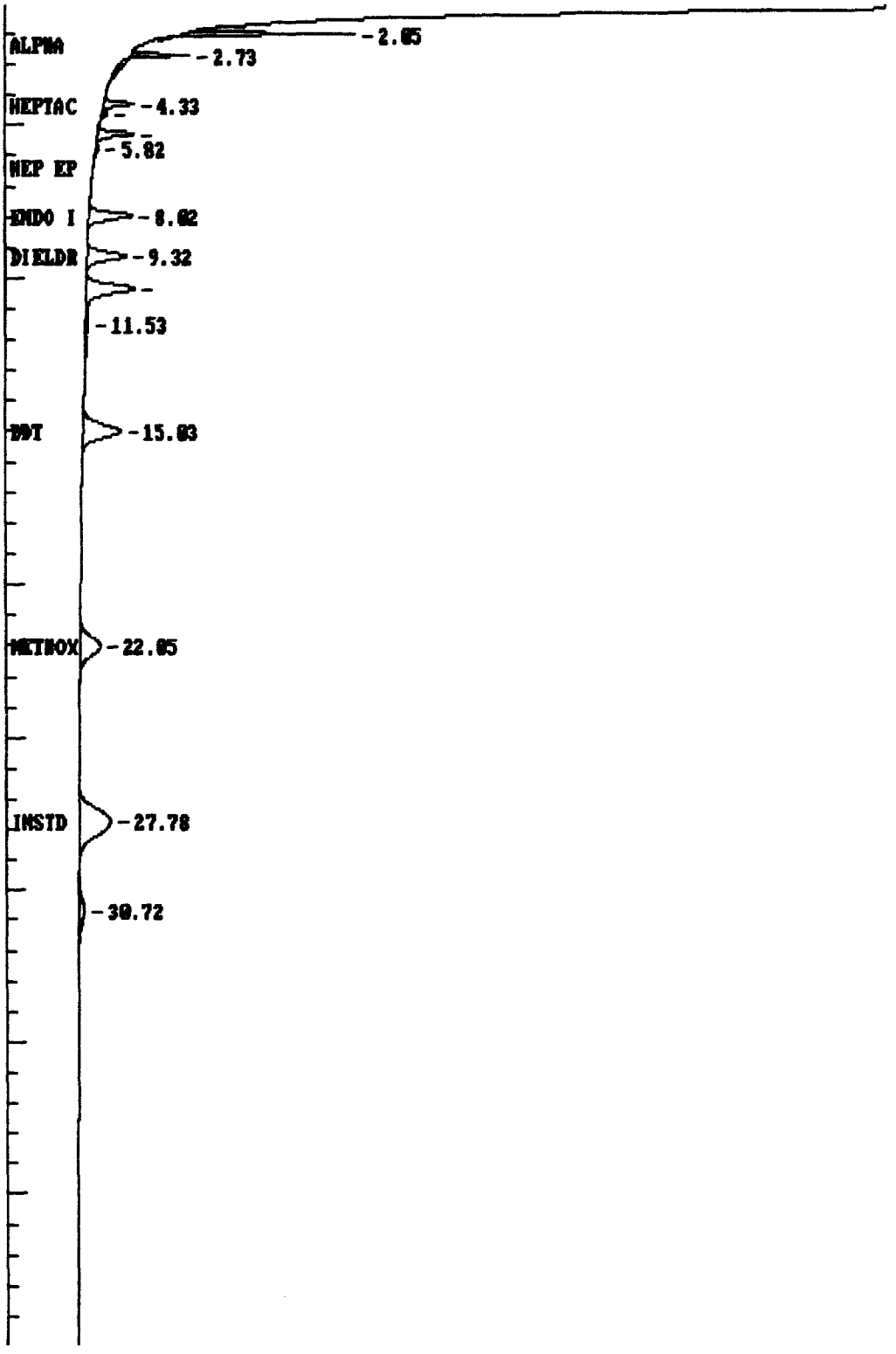


```
*****   INTERNAL STANDARD TABLE   *****
******************** 07-26-1990 07:47:59 Version 4.1 **********************
* Sample Name: PEST SPK 90FT20S53                Data File: P:2SF31        *
* Date: 07-18-1990 12:51:07 Method: P:2PESTA  07-23-1990 09:52:51  #  88   *
* Interface: 0   Cycle#:  31   Operator AK  Channel#: 1    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: MIXED/SINGLE          *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C                  *
*            Detector 0: ECD QUANT           Detector 1:                   *
* Misc. Information:                                                       *
*************************************************************************
Starting Delay:    1.00                      Ending retention time:    45.00
Area reject:        0                        One sample per   1.000 sec.
Amount injected:        1.00                 Dilution factor:       10.00
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	2.73	LINDANE	0.0477	3.4092%	299192	68278	4.4	1	2	13	0	1.5956E-07
3	4.33	HEPTACHLOR	0.0416	2.9729%	335668	33966	9.9	2	3	13	0	1.2402E-07
5	5.33	ALDRIN	0.0751	5.3643%	479306	42055	11.4	1	5	13	0	1.5672E-07
7	8.02	ENDO I	0.1257	8.9781%	831884	48727	17.1	1	7	13	0	1.5113E-07
8	9.32	DIELDRIN	0.1215	8.6767%	836053	43037	19.4	1	8	13	0	1.4533E-07
9	10.38	ENDRIN + ENDO II	0.1740	12.4277%	1168148	53931	21.7	3	9	13	0	1.4898E-07
11	15.03	DDT	0.3898	27.8384%	1315413	41514	31.7	1	11	13	0	2.9635E-07
12	22.05	METHOXYCHLOR	0.4248	30.3327%	983388	22077	44.5	1	12	13	0	4.3193E-07
13	27.78	INSTD MIREX	1.0000	0.0000%	2168097	36105	60.1	2	13	13	0	4.6123E-07

TOTAL AMOUNT = 1.4003

Data File = P:2SF31.PTS Printed on 07-26-1990 at 07:48:20
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 23940 uv High Value: 939599 uv Scale factor: 1.0



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

********** 07-26-1990 07:49:12 Version 4.1 **********

* Sample Name: PEST SPK DUP 90FT20S53 Data File: P:2SF32 *
* Date: 07-18-1990 12:53:53 Method: P:2PESTA 07-23-1990 09:52:51 # 88 *
* Interface: 0 Cycle#: 32 Operator AK Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

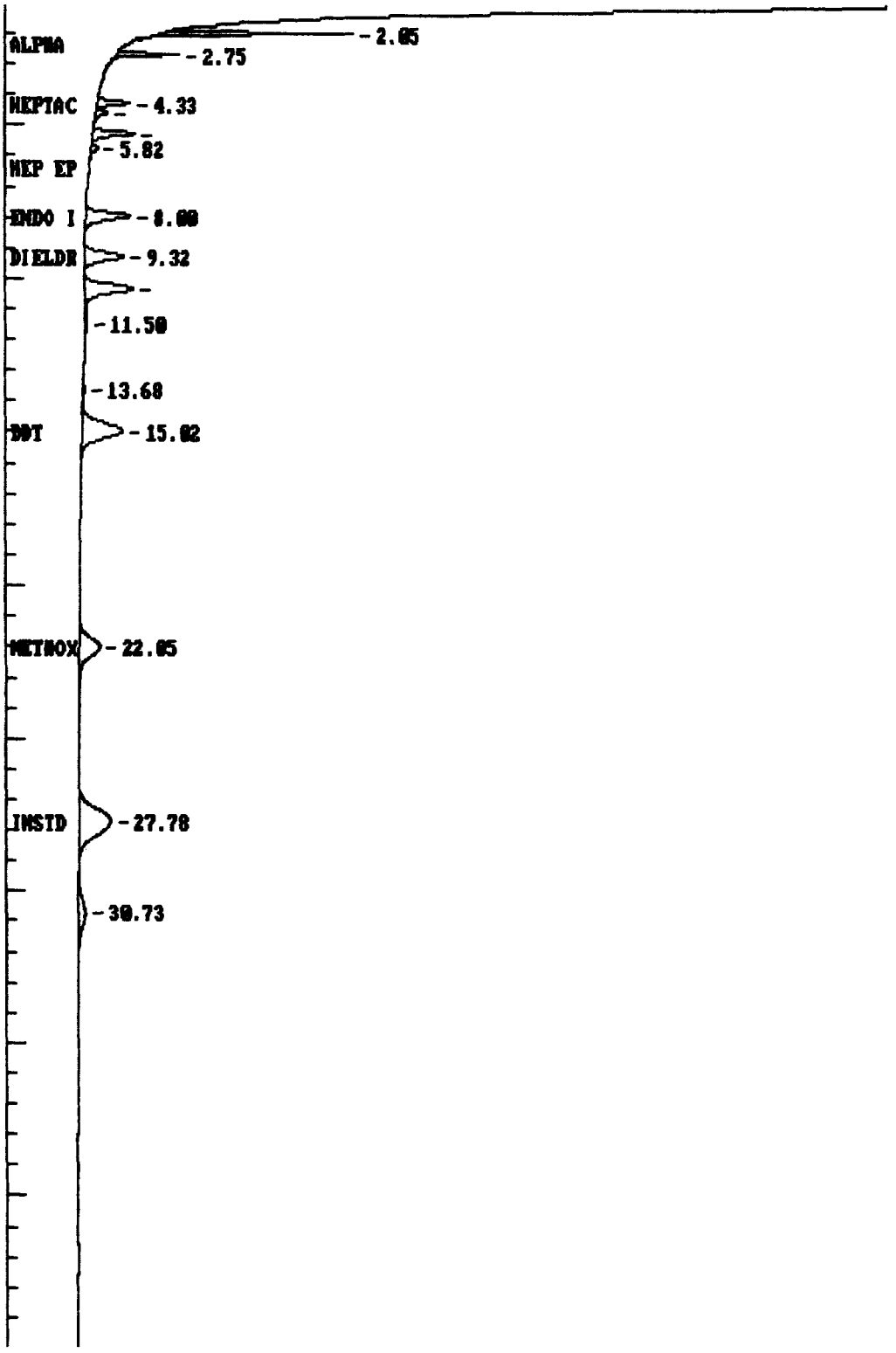
****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
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	2.75	LINDANE	0.0701	4.6888%	441462	71190	6.2	1	2	14	0	1.5883E-07
3	4.33	HEPTACHLOR	0.0452	3.0213%	365982	37037	9.9	2	3	14	0	1.2345E-07
5	5.33	ALDRIN	0.0844	5.6442%	541042	47731	11.3	2	5	14	0	1.5600E-07
7	8.00	ENDO I	0.1274	8.5181%	846740	49525	17.1	1	7	14	0	1.5044E-07
8	9.32	DIELDRIN	0.1213	8.1121%	838578	43099	19.5	1	8	14	0	1.4466E-07
9	10.38	ENDRIN + ENDO II	0.1782	11.9187%	1201909	54379	22.1	3	9	14	0	1.4830E-07
12	15.02	DDT	0.4478	29.9461%	1518063	44659	34.0	2	12	14	0	2.9500E-07
13	22.05	METHOXYCHLOR	0.4210	28.1507%	979119	21944	44.6	1	13	14	0	4.2995E-07
14	27.78	INSTD MIREX	1.0000	0.0000%	2178058	36344	59.9	2	14	14	0	4.5912E-07

TOTAL AMOUNT = 1.4954

Data File = P:2SF32.PTS Printed on 07-26-1990 at 07:49:33
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 24477 uv High Value: 939561 uv Scale factor: 1.0



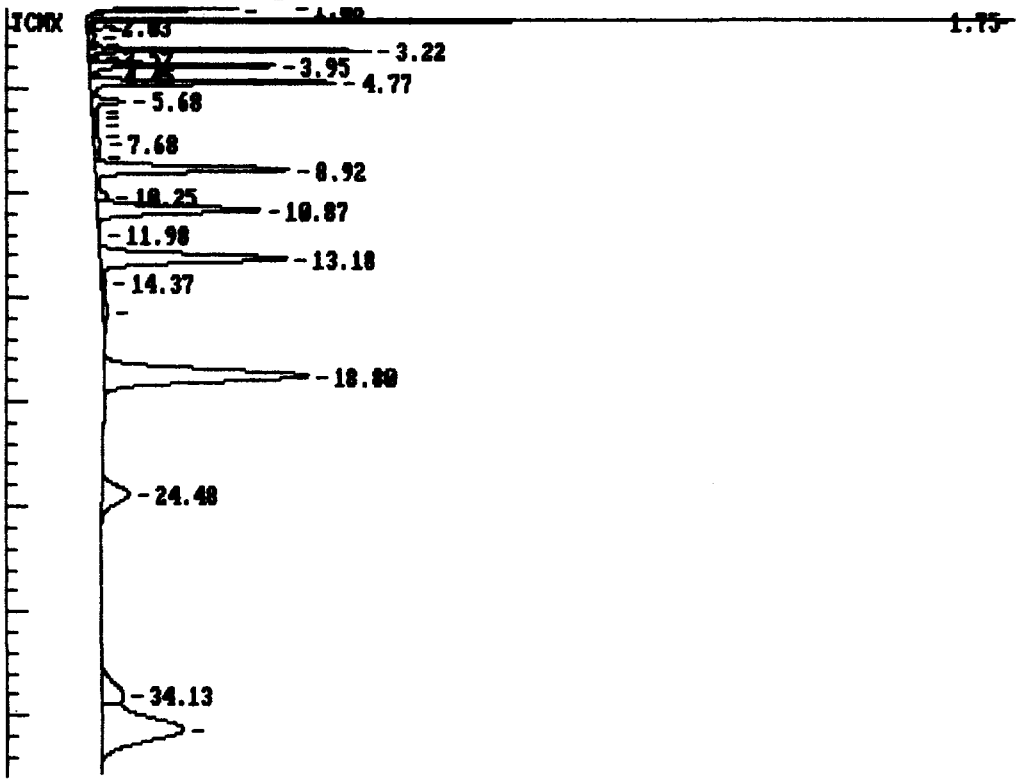
***** EXTERNAL STANDARD TABLE *****

```
******************** 07-26-1990 07:26:11 Version 4.1 **********************
* Sample Name: PEST SPK DUP S53                    Data File: P:1TC12       *
* Date: 07-25-1990 23:40:28 Method: P:TCMXSTD  07-26-1990 07:15:08  #  13 *
* Interface: 0   Cycle#:  12   Operator AK  Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: MIXED/SINGLE          *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C                  *
*            Detector 0: ECD QUANT           Detector 1:                   *
* Misc. Information:                                                       *
*************************************************************************
Starting Delay:    1.00                      Ending retention time:   38.00
Area reject:        0                        One sample per   1.000 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	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.75	TCMX	0.1107	100.0000%	3033088	650009	4.7	3	3	0	3.6510E-08

TOTAL AMOUNT = 0.1107

Data File = P:1TC12.PTS Printed on 07-26-1990 at 07:26:23
Start time: 1.00 min. Stop time: 37.93 min. Offset: 0 mv.
Low Value: 122589 uv High Value: 772691 uv Scale factor: 1.0

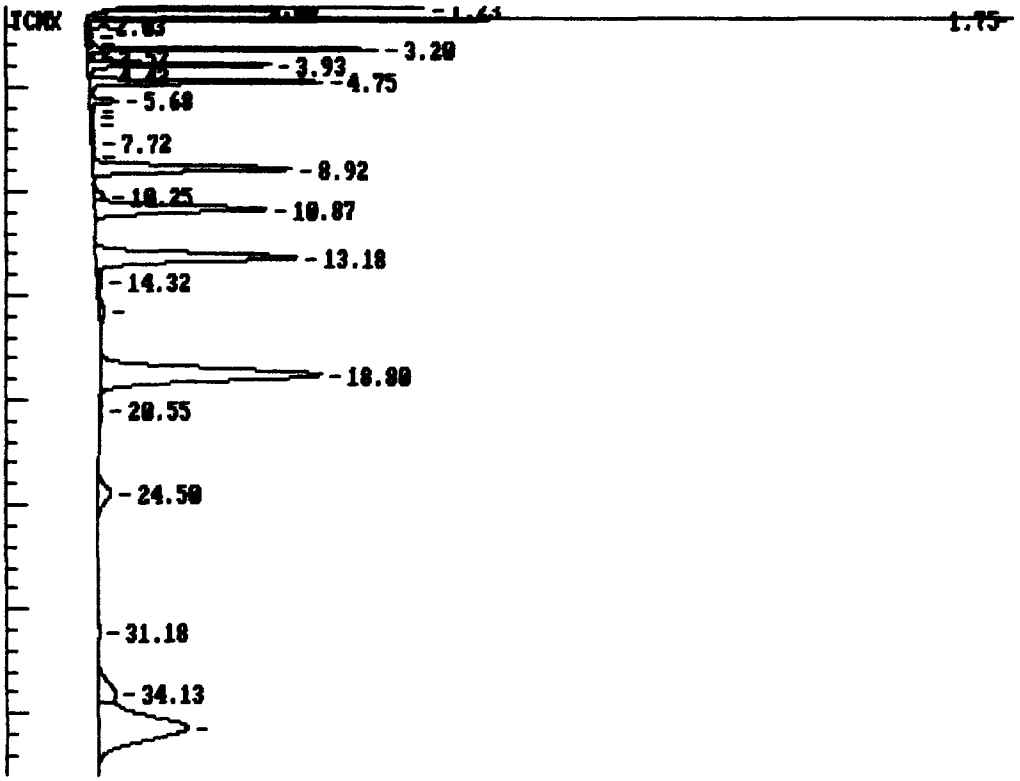


```
*****   EXTERNAL STANDARD TABLE   *****
******************** 07-26-1990 07:32:00 Version 4.1 *********************
* Sample Name: PEST SPK S53                    Data File: P:1TC19        *
* Date: 07-26-1990 04:22:37 Method: P:TCMXSTD  07-26-1990 07:15:08  #  13 *
* Interface: 0   Cycle#:  19   Operator AK  Channel#: 0    Vial#: N.A.   *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100           *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: MIXED/SINGLE       *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN           *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C               *
*            Detector 0: ECD QUANT           Detector 1:                *
* Misc. Information:                                                    *
*************************************************************************
Starting Delay:    1.00                    Ending retention time:    38.00
Area reject:        0                      One sample per    1.000 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	1.75	TCMX	0.1041	100.0000%	2851588	618301	4.6	3	3	0	3.6510E-08

TOTAL AMOUNT = 0.1041

Data File = P:1TC19.PTS Printed on 07-26-1990 at 07:32:11
Start time: 1.00 min. Stop time: 37.93 min. Offset: 0 mv.
Low Value: 126973 uv High Value: 746395 uv Scale factor: 1.0



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

********** 07-25-1990 14:30:29 Version 4.1 **********

* Sample Name: PCB SPK 90FT20S53 Data File: P:1SF36 *
* Date: 07-18-1990 15:01:34 Method: P:1MET42 07-23-1990 10:15:13 # 39 *
* Interface: 0 Cycle#: 36 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: SCRN: * *

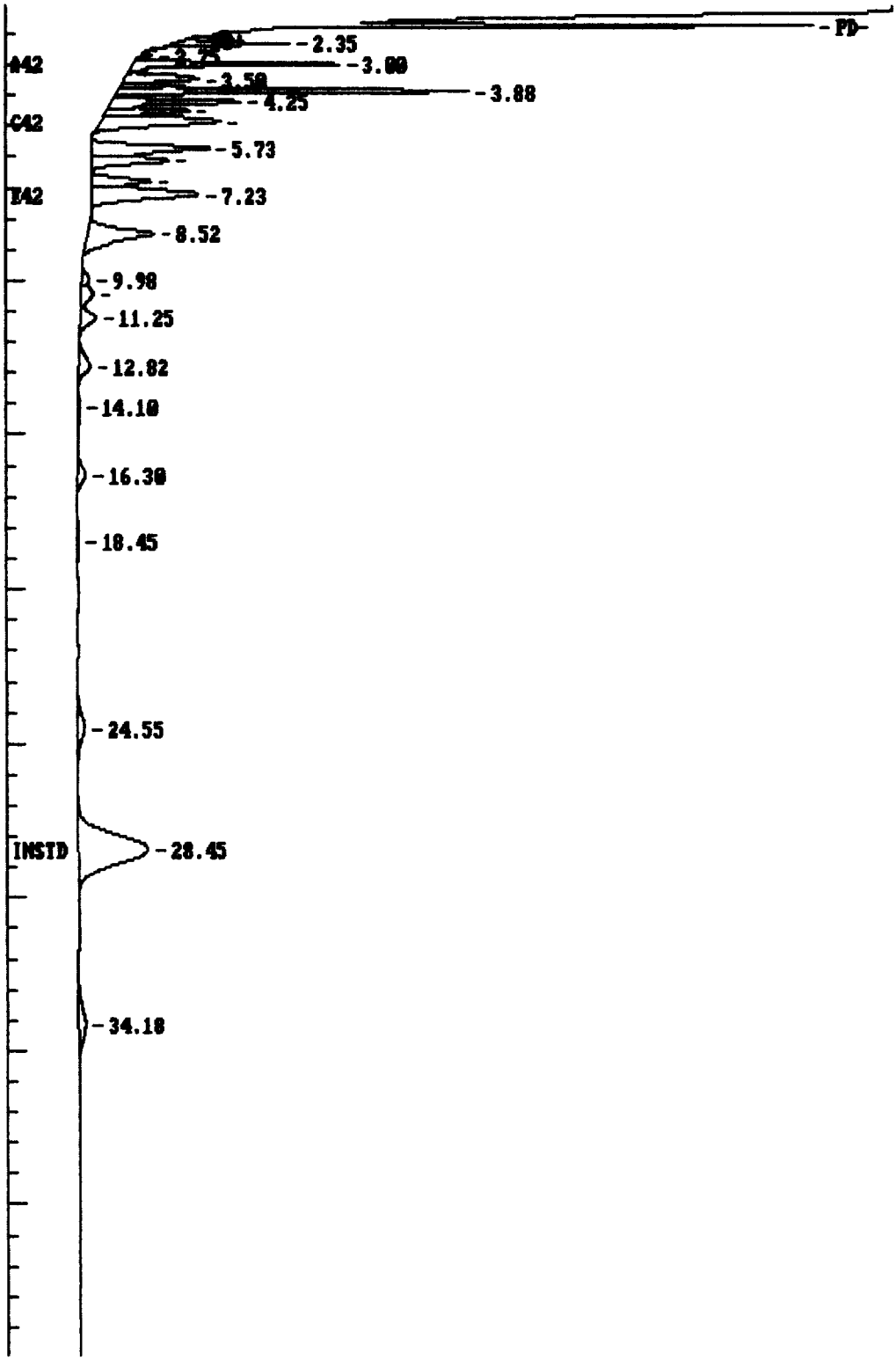
Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/~~L~~ C	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	3.00	A42	2.0335	16.8261%	1637177	206844	7.9	2	3	23	0	1.2421E-06
6	3.88	B42	2.5413	21.0280%	3225426	350778	9.2	2	6	23	0	7.8791E-07
9	4.87	C42	2.3775	19.6721%	2289335	119893	19.1	2	9	23	0	1.0385E-06
10	5.73	D42	2.7251	22.5485%	1979557	117439	16.9	2	10	23	0	1.3766E-06
13	7.23	E42	2.4081	19.9253%	2377748	107481	22.1	2	13	23	0	1.0128E-06
23	28.45	INSTD MIREX	1.0000	0.0000%	4580837	69915	65.5	1	23	23	0	2.1830E-07

TOTAL AMOUNT = 12.0855

2.4

Data File = P:1SF36.PTS Printed on 07-25-1990 at 14:30:46
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 124627 uv High Value: 940842 uv Scale factor: 1.0



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

********** 07-25-1990 14:31:42 Version 4.1 **********

* Sample Name: PCB SPK DUP 90FT20S53 Data File: P:1SF37 *
* Date: 07-18-1990 15:48:47 Method: P:1MET42 07-23-1990 10:15:13 # 39 *
* Interface: 0 Cycle#: 37 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: SCRN: * *

****

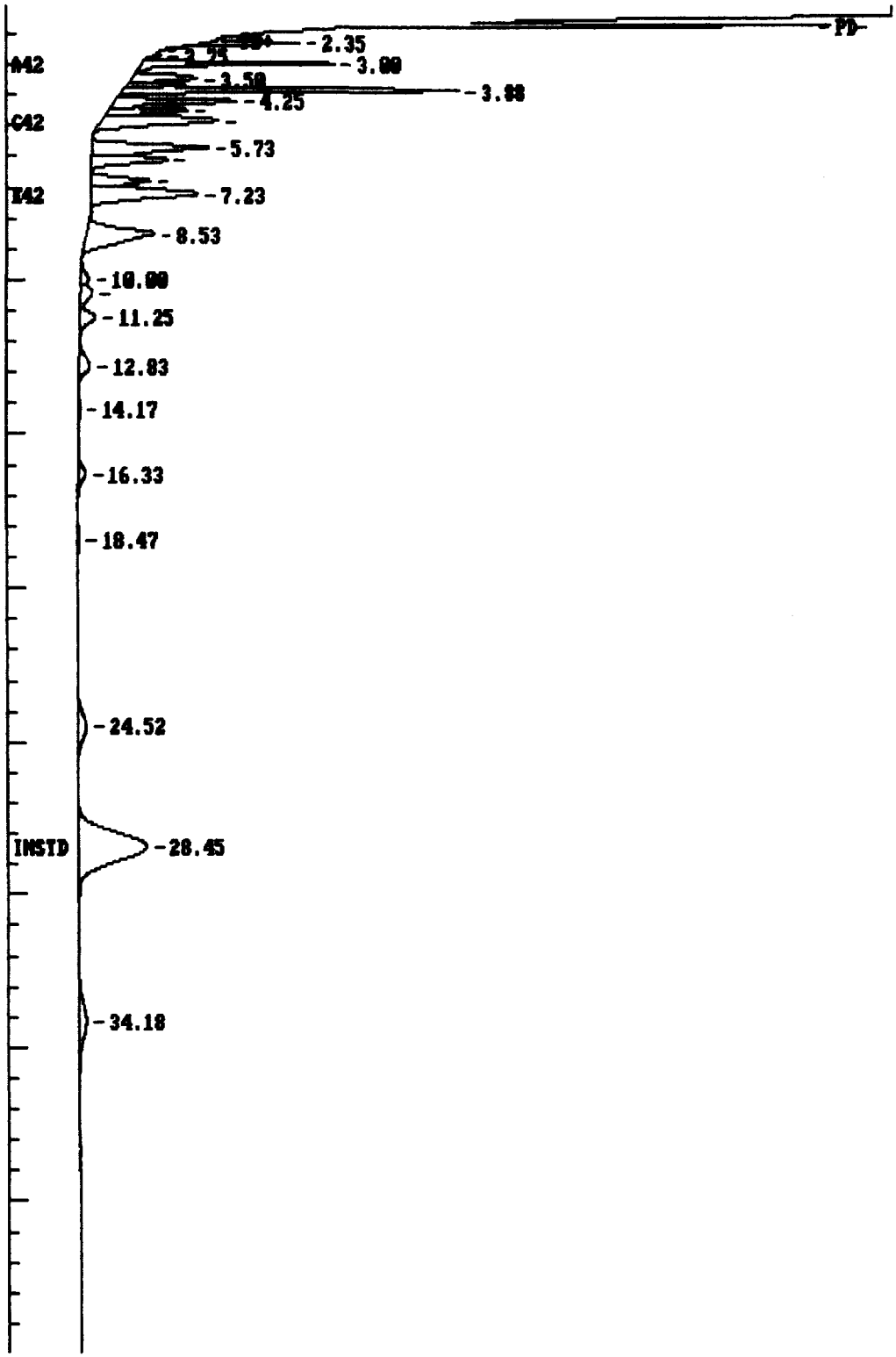
Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/KG ~~l~~	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	3.00	A42	1.8610	15.6811%	1486400	192785	7.7	2	3	23	0	1.2520E-06
6	3.88	B42	2.4567	20.7001%	3060941	336429	9.1	2	6	23	0	8.0259E-07
9	4.87	C42	2.3408	19.7240%	2204916	116364	18.9	2	9	23	0	1.0616E-06
10	5.73	D42	2.7839	23.4577%	1966266	116762	16.8	2	10	23	0	1.4159E-06
13	7.23	E42	2.4255	20.4371%	2334789	106863	21.8	2	13	23	0	1.0388E-06
23	28.45	INSTD MIREX	1.0000	0.0000%	4469864	68276	65.5	1	23	23	0	2.2372E-07

TOTAL AMOUNT = 11.8679

2.36

Data File = P:1SF37.PTS Printed on 07-25-1990 at 14:31:59
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 125322 uv High Value: 940820 uv Scale factor: 1.0



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

********** 07-26-1990 07:54:48 Version 4.1 **********

* Sample Name: PCB SPK [redacted] 90FT20S53 Data File: P:2SF37 *
* Date: 07-18-1990 15:48:46 Method: P:2MET42 07-23-1990 09:53:54 # 28 *
* Interface: 0 Cycle#: 37 Operator AK Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: SCRN: * *

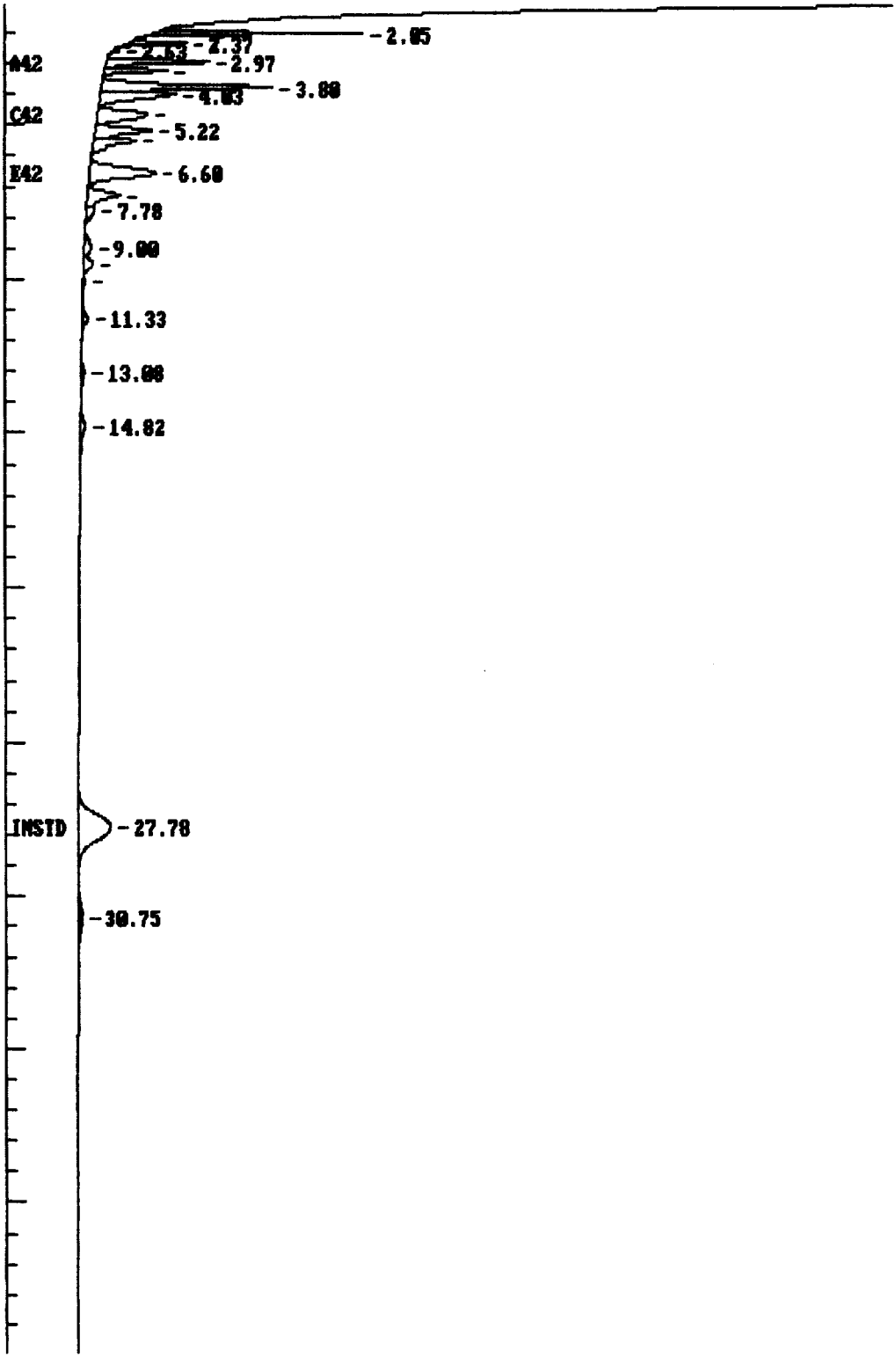
****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/KG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	2.97	A42	2.4323	18.5800%	1003598	115233	8.7	2	4	20	0	2.4236E-06
6	3.80	B42	2.5973	19.8402%	2135496	193271	11.0	2	6	20	0	1.2162E-06
8	4.68	C42	2.5220	19.2650%	1212438	57453	21.1	2	8	20	0	2.0801E-06
9	5.22	D42	2.6473	20.2225%	967095	64595	15.0	2	9	20	0	2.7374E-06
11	6.60	E42	2.8921	22.0923%	1706017	73663	23.2	2	11	20	0	1.6952E-06
20	27.78	INSTD MIREX	1.0000	0.0000%	2197945	36579	60.1	2	20	20	0	4.5497E-07

TOTAL AMOUNT = 13.0910

Data File = P:2SF37.PTS Printed on 07-26-1990 at 07:55:05
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 23886 uv High Value: 939536 uv Scale factor: 1.0



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

********** 07-26-1990 07:55:58 Version 4.1 **********

* Sample Name: ~~BEG ENDRIN~~ PCBSplC Dup 853 Data File: P:2SF38 *
* Date: 07-18-1990 16:36:06 Method: P:2MET42 07-23-1990 09:53:54 # 28 *
* Interface: 0 Cycle#: 38 Operator AK Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: SCRN: * *

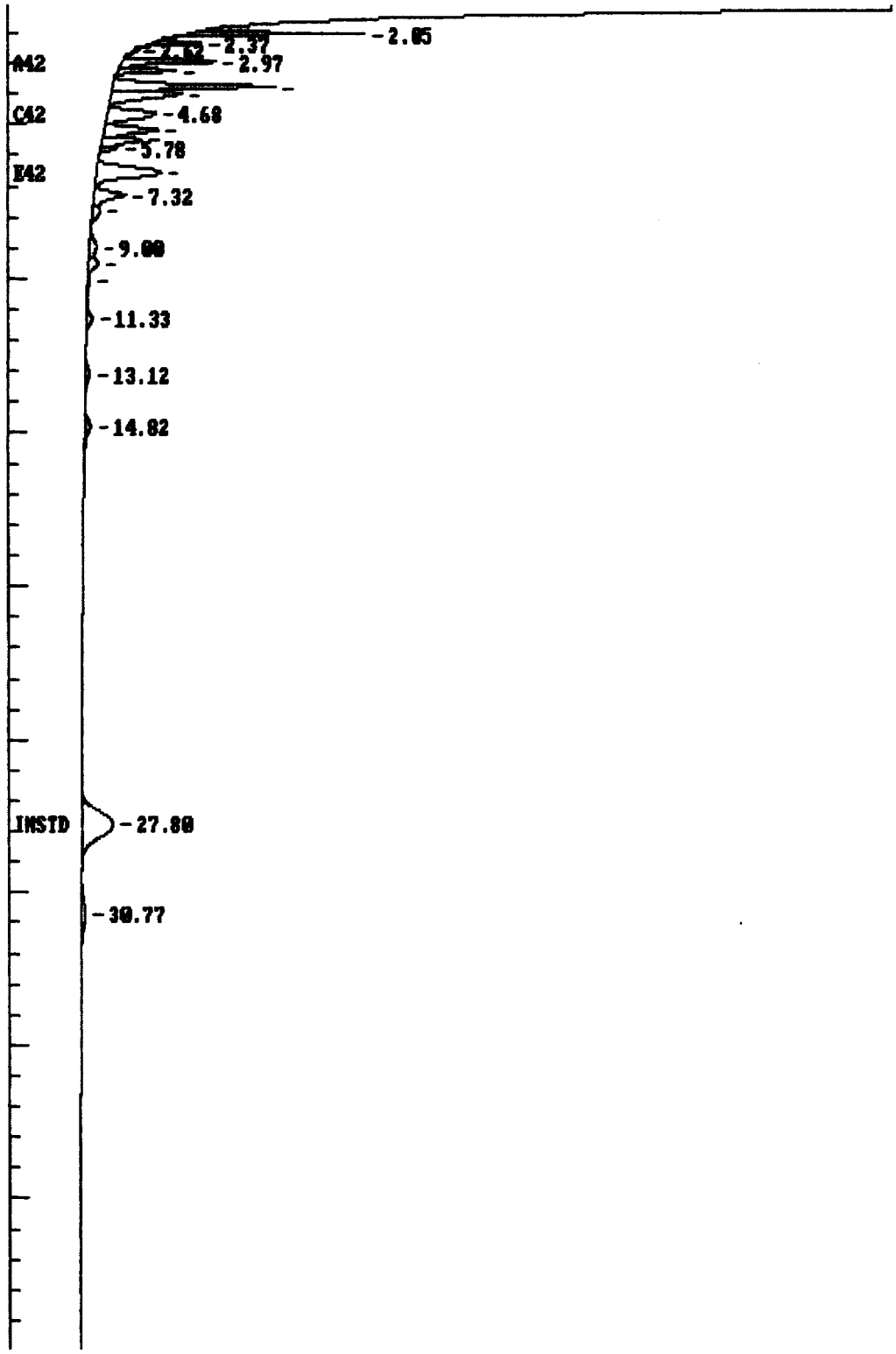
****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: ~~1.00~~ 10 lt
Internal Standard Amount: 1
Sample Weight: 1.000000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/KG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	HEIGHT BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	2.97	A42	2.25 ~~0.2251~~	17.9785%	905323	104763	8.6	2	4	21	0	2.4867E-07
6	3.80	B42	2.49 ~~0.2490~~	19.8814%	1994962	183432	10.9	2	6	21	0	1.2479E-07
8	4.68	C42	2.37 ~~0.2373~~	18.9478%	1111693	54459	20.4	2	8	21	0	2.1343E-07
9	5.22	D42	2.25 ~~0.2534~~	20.2360%	902182	61337	14.7	2	9	21	0	2.8087E-07
12	6.60	E42	2.28 ~~0.2875~~	22.9562%	1652639	72042	22.9	2	12	21	0	1.7394E-07
21	27.80	INSTD MIREX	~~1.0000~~	0.0000%	2142127	35775	59.9	2	21	21	0	4.6683E-07

TOTAL AMOUNT = 1.2522

Data File = P:2SF38.PTS Printed on 07-26-1990 at 07:56:16
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 24691 uv High Value: 936589 uv Scale factor: 1.0

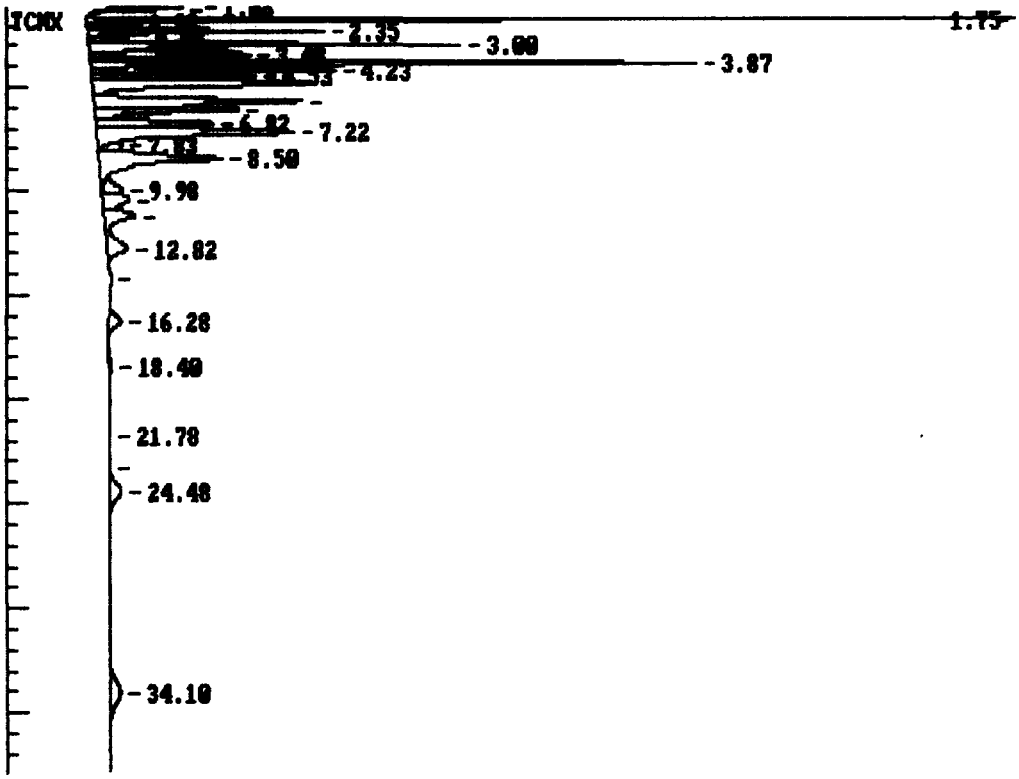


```
*****   EXTERNAL STANDARD TABLE   *****
******************** 07-26-1990 07:31:08 Version 4.1 **********************
* Sample Name: PCB SPK S53                        Data File: P:1TC18       *
* Date: 07-26-1990 03:42:22 Method: P:TCMXSTD  07-26-1990 07:15:08  #  13 *
* Interface: 0   Cycle#:  18   Operator AK  Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: MIXED/SINGLE         *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C                 *
*            Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information:                                                      *
*************************************************************************
Starting Delay:    1.00                      Ending retention time:   38.00
Area reject:        0                        One sample per   1.000 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	1.75	TCMX	0.1038	100.0000%	2842311	604042	4.7	3	3	0	3.6510E-08

TOTAL AMOUNT = 0.1038

Data File = P:1TC18.PTS Printed on 07-26-1990 at 07:31:20
Start time: 1.00 min. Stop time: 37.93 min. Offset: 0 mv.
Low Value: 116754 uv High Value: 720930 uv Scale factor: 1.0

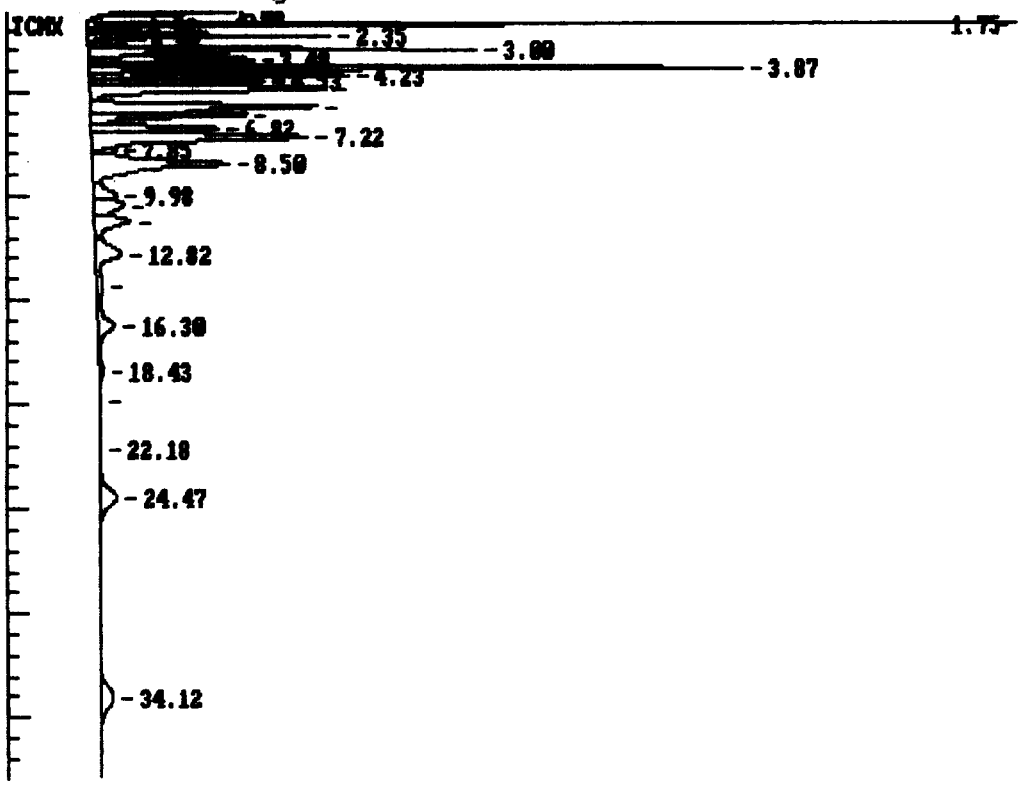


```
*****   EXTERNAL STANDARD TABLE   *****
******************** 07-26-1990 07:27:50 Version 4.1 **********************
* Sample Name: S53 PCB MSD                        Data File: P:1TC14       *
* Date: 07-26-1990 01:01:04 Method: P:TCMXSTD  07-26-1990 07:15:08  #  13 *
* Interface: 0   Cycle#:  14   Operator AK  Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: MIXED/SINGLE         *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C                 *
*            Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information:                                                      *
*************************************************************************
Starting Delay:    1.00                      Ending retention time:   38.00
Area reject:         0                       One sample per   1.000 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	1.75	TCMX	0.1078	100.0000%	2951738	628353	4.7	3	3	0	3.6510E-08

TOTAL AMOUNT = 0.1078

Data File = P:1TC14.PTS Printed on 07-26-1990 at 07:28:03
Start time: 1.00 min. Stop time: 37.93 min. Offset: 0 mv.
Low Value: 125254 uv High Value: 753666 uv Scale factor: 1.0



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

********** 07-25-1990 14:25:58 Version 4.1 **********

* Sample Name: 90FT20S53 Data File: P:1SF32 *
* Date: 07-18-1990 12:53:54 Method: P:PESA 07-24-1990 08:10:24 # 103 *
* Interface: 0 Cycle#: 32 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

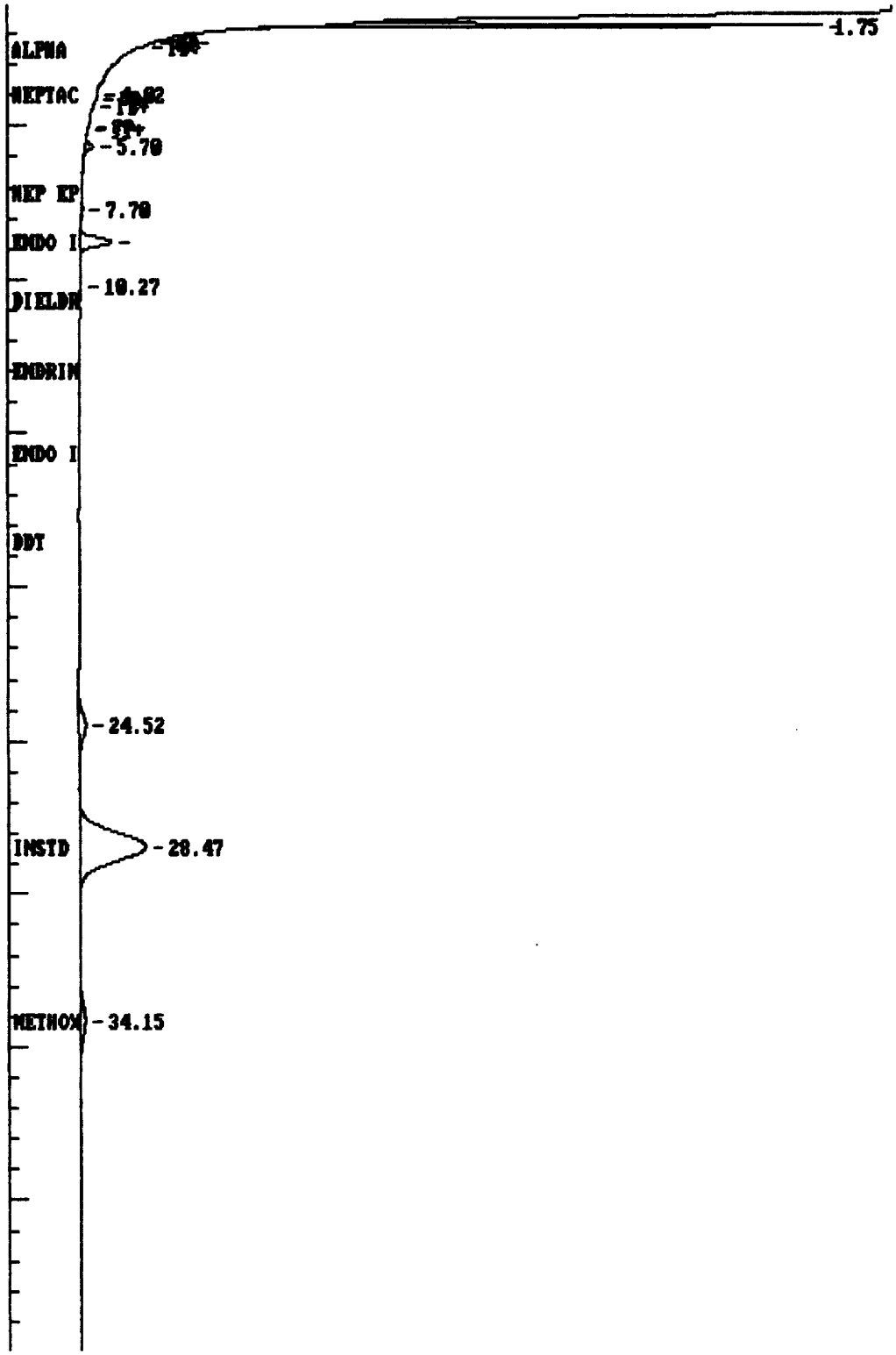
Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

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	4.02	~~HEPTACHLOR~~	-0.0002	-0.2261%	5565	810	6.9	1	2	8	0	-3.5062E-08
5	8.80	~~ENDO I~~	0.0337	39.0722%	620640	31285	19.8	1	5	8	0	5.4338E-08
6	10.27	~~DIELDRIN~~	-0.0005	-0.5675%	30454	1047	29.1	1	5	8	-4.173	-1.6084E-08
8	28.47	INSTD MIREX	1.0000	0.0000%	4307984	65707	65.6	1	8	8	0	2.3213E-07
9	34.15	METHOXYCHLOR	0.0533	61.7214%	393419	5087	77.3	1	9	8	0	1.3541E-07

TOTAL AMOUNT = 0.0863

NC

Data File = P:1SF32.PTS Printed on 07-25-1990 at 14:26:15
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 128539 uv High Value: 940863 uv Scale factor: 1.0



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

********** 07-26-1990 08:09:27 Version 4.1 **********

* Sample Name: 90FT20S53 Data File: P:1SF32 *
* Date: 07-18-1990 12:53:54 Method: P:1PESTB 07-23-1990 09:00:11 # 72 *
* Interface: 0 Cycle#: 32 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

****

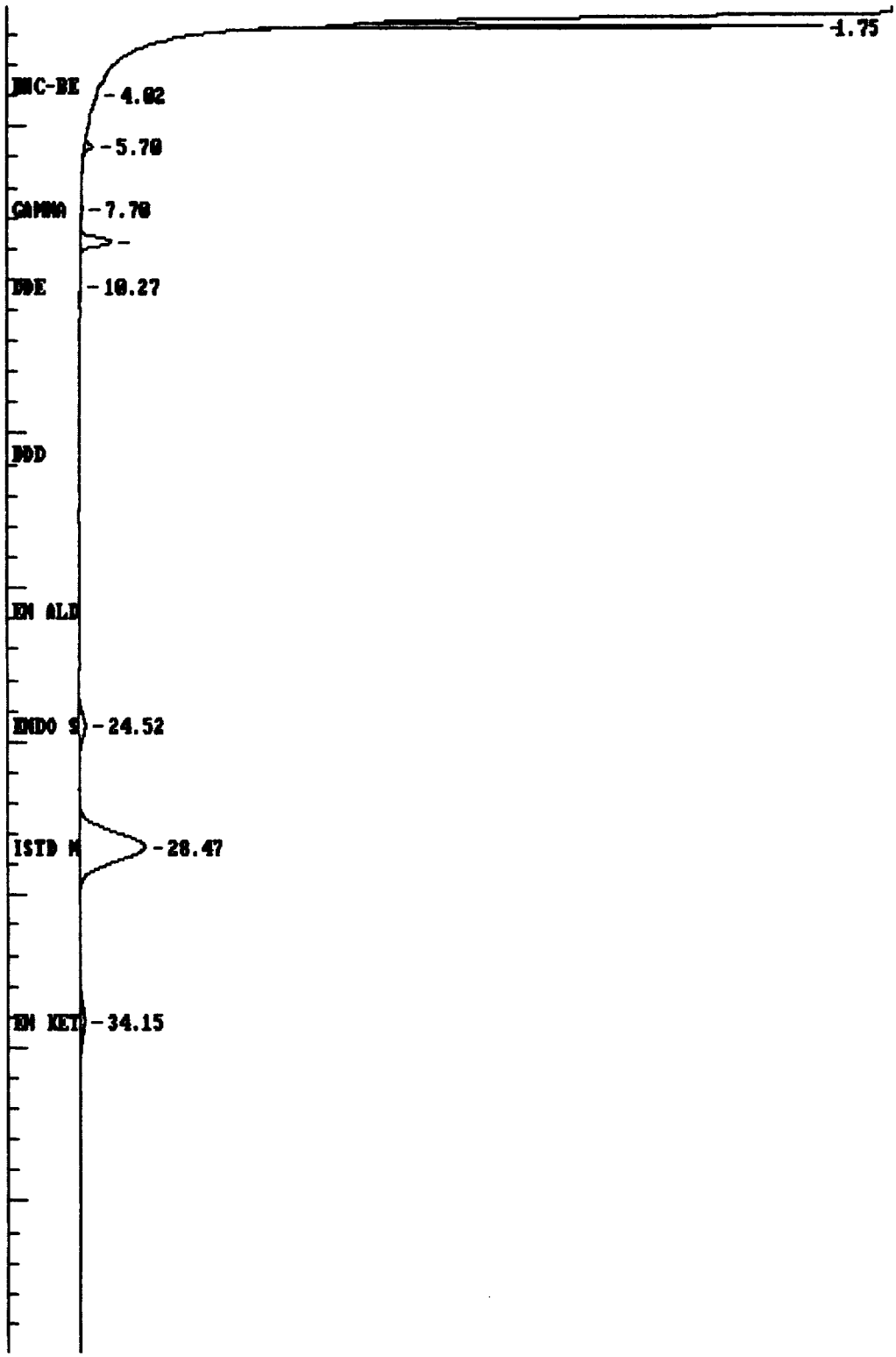
Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

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
4	7.79	GAMMA CHLORDANE	-0.0117	-43.2770%	41310	1539	26.8	1	4	8	0	-2.8299E-07
5	8.80	ALPHA CHLORDANE	0.0209	77.1870%	620640	31285	19.8	1	5	8	0	3.3595E-08
6	10.27	DDE	-0.0058	-21.4987%	30454	1047	29.1	1	6	8	0	-1.9070E-07
7	24.52	ENDO SULFATE	0.0316	117.0209%	437634	7486	58.5	1	7	8	0	7.2231E-08
8	28.47	ISTD MIREX	1.0000	0.0000%	4307984	65707	65.6	1	8	8	0	2.3213E-07
9	34.15	EN KETONE	-0.0080	-29.4323%	393419	5087	77.3	1	9	8	0	-2.0209E-08

TOTAL AMOUNT = 0.0270

Not found on ~~primary~~ (cont) column

Data File = P:1SF32.PTS Printed on 07-26-1990 at 08:09:45
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 128539 uv High Value: 940863 uv Scale factor: 1.0



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

********** 07-26-1990 07:50:24 Version 4.1 **********

* Sample Name: 90FT20S53 Data File: P:2SF33 *
* Date: 07-18-1990 12:56:38 Method: P:2PESTA 07-23-1990 09:52:51 # 88 *
* Interface: 0 Cycle#: 33 Operator AK Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

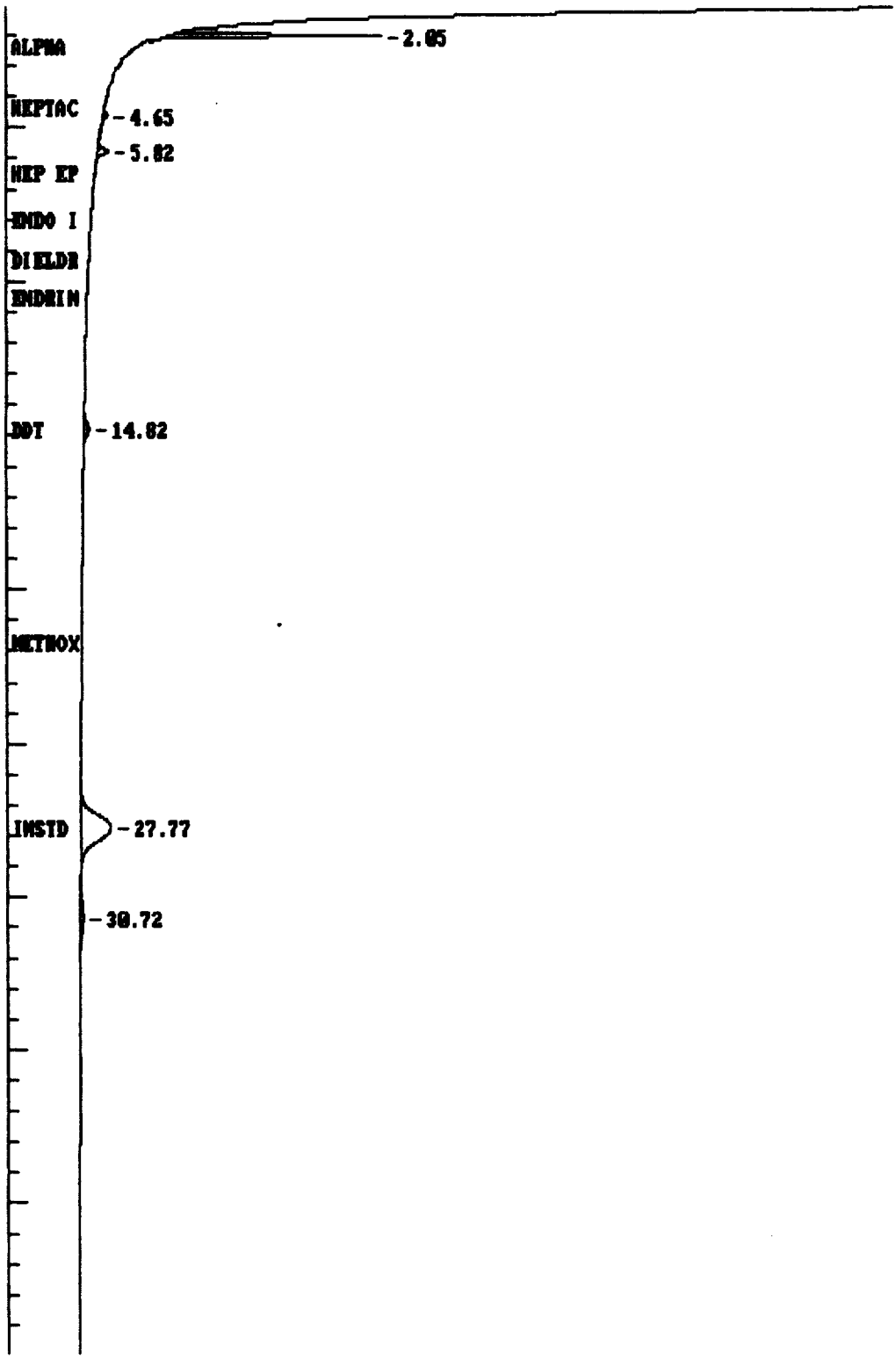
Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

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
4	~~14.82~~	~~DDT~~	0.0597	100.0000%	187378	5502	34.1	1	4	5	0	3.1846E-07
5	27.77	INSTD MIREX	1.0000	0.0000%	2017593	33664	59.9	2	5	5	0	4.9564E-07

TOTAL AMOUNT = 0.0597

not found on primary column

Data File = P:2SF33.PTS Printed on 07-26-1990 at 07:50:37
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 25002 uv High Value: 939565 uv Scale factor: 1.0

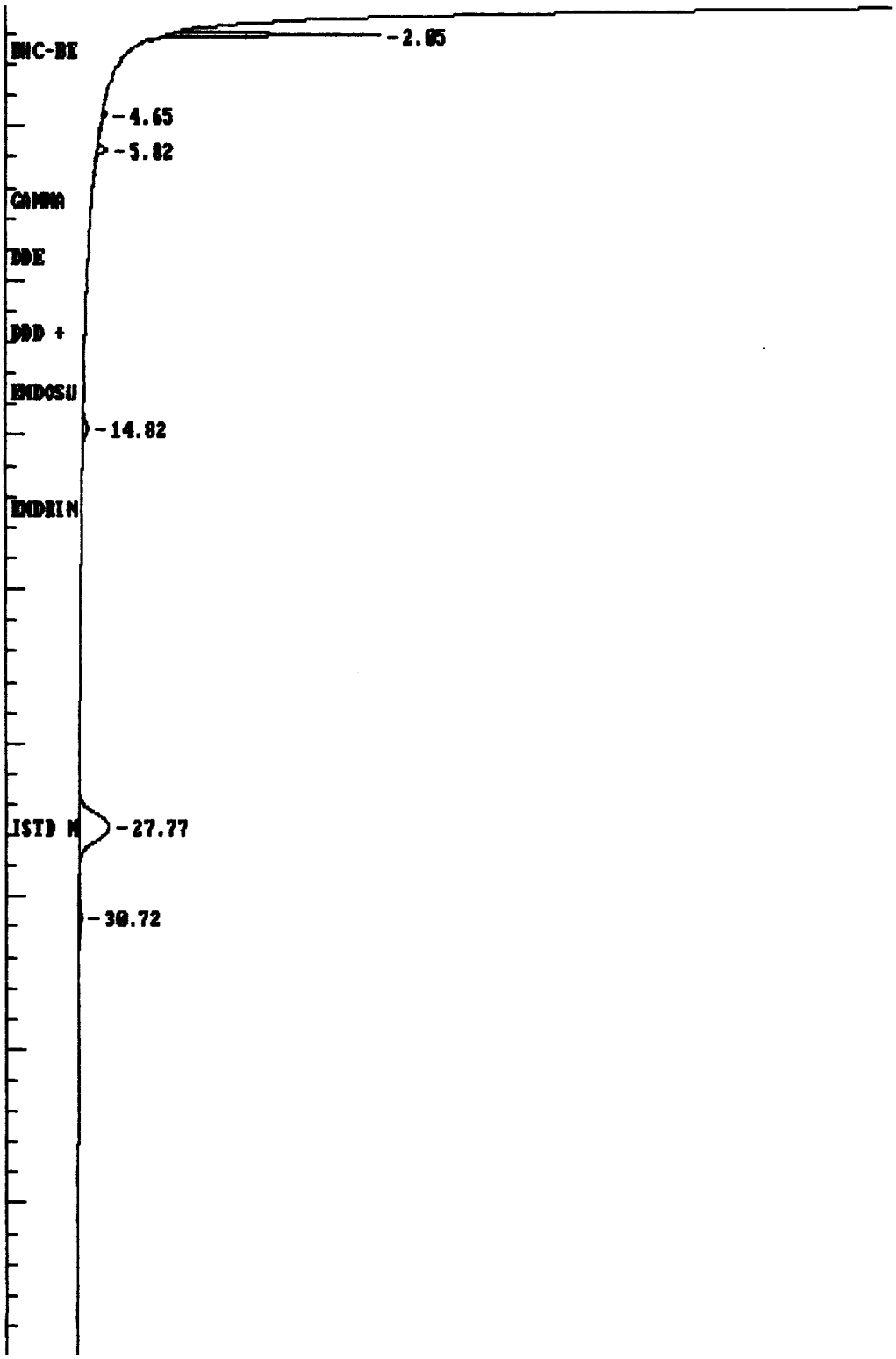


```
*****    INTERNAL STANDARD TABLE    *****
******************** 07-26-1990 08:23:01 Version 4.1 **********************
* Sample Name: 90FT20S53                          Data File: P:2SF33       *
* Date: 07-18-1990 12:56:38 Method: P:2PESTB  07-23-1990 09:51:14  #  65  *
* Interface: 0   Cycle#:  33   Operator AK  Channel#: 1    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
***********************************************************************
* Instrument Type: HP 5890A #1          Column Type: MIXED/SINGLE         *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C                 *
*            Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information:                                                      *
***********************************************************************
Starting Delay:    1.00                      Ending retention time:    45.00
Area reject:        0                        One sample per   1.000 sec.
Amount injected:        1.00                 Dilution factor:       10.00
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
5	27.77	ISTD MIREX	1.0000	0.0000%	2017593	33664	59.9	2	5	5	0	4.9564E-07

TOTAL AMOUNT = 0.0000

Data File = P:2SF33.PTS Printed on 07-26-1990 at 08:23:12
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 25002 uv High Value: 939565 uv Scale factor: 1.0

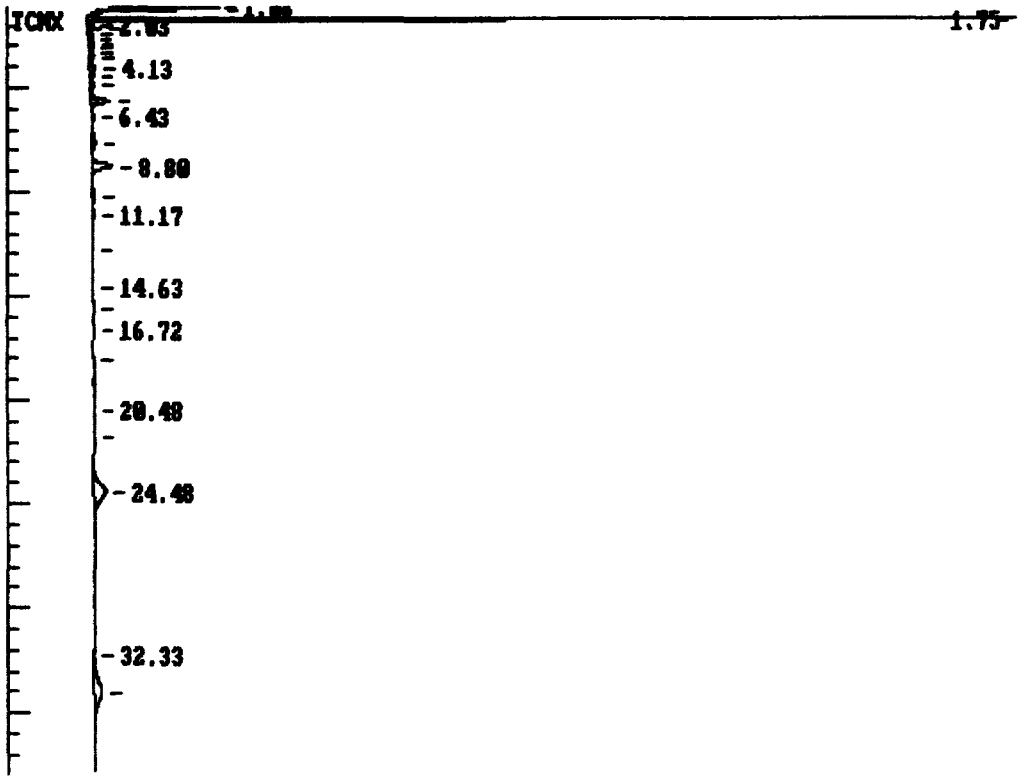


```
*****   EXTERNAL STANDARD TABLE   *****
******************** 07-26-1990 07:27:03 Version 4.1 **********************
* Sample Name: S53                                Data File: P:1TC13       *
* Date: 07-26-1990 00:20:46 Method: P:TCMXSTD  07-26-1990 07:15:08  #  13 *
* Interface: 0   Cycle#:  13   Operator AK  Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
***************************************************************************
* Instrument Type: HP 5890A #1          Column Type: MIXED/SINGLE         *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C                 *
*             Detector 0: ECD QUANT           Detector 1:                 *
* Misc. Information:                                                      *
***************************************************************************
Starting Delay:    1.00                      Ending retention time:   38.00
Area reject:         0                       One sample per   1.000 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	1.75	TCMX	0.1212	100.0000%	3320497	713213	4.7	3	3	0	3.6510E-08

TOTAL AMOUNT = 0.1212

Data File = P:1TC13.PTS Printed on 07-26-1990 at 07:27:14
Start time: 1.00 min. Stop time: 37.93 min. Offset: 0 mv.
Low Value: 127892 uv High Value: 841199 uv Scale factor: 1.0



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

********** 07-25-1990 14:27:06 Version 4.1 **********

* Sample Name: 90FT20S54 Data File: P:1SF33 *
* Date: 07-18-1990 12:56:39 Method: P:PESA 07-24-1990 08:10:24 # 103 *
* Interface: 0 Cycle#: 33 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

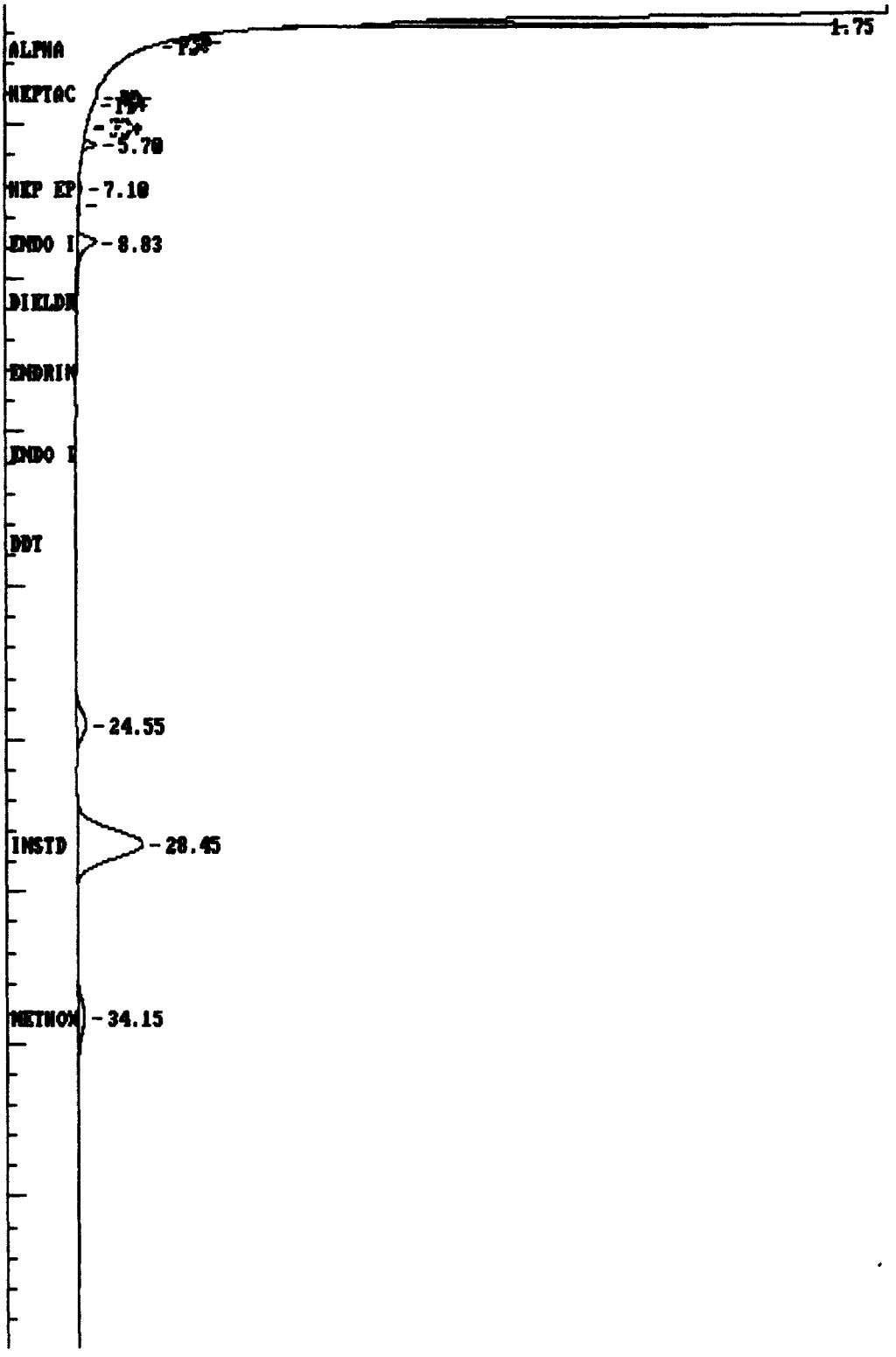
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	7.10	HEP EPOX	-0.0003	-0.3485%	49604	2507	19.8	2	3	7	0	-6.4444E-09
5	8.83	ENDO I	0.0302	32.9414%	556365	17987	30.9	1	5	7	0	5.4306E-08
7	28.45	INSTD MIREX	1.0000	0.0000%	4269921	65234	65.5	1	7	7	0	2.3420E-07
8	34.15	METHOXYCHLOR	0.0618	67.4071%	470557	6023	78.1	1	8	7	0	1.3139E-07

TOTAL AMOUNT = 0.0917

XIC

NC
It

Data File = P:1SF33.PTS Printed on 07-25-1990 at 14:27:21
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 125260 uv High Value: 940851 uv Scale factor: 1.0



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

********** 07-26-1990 08:10:36 Version 4.1 **********

* Sample Name: 90FT20S54 Data File: P:1SF33 *
* Date: 07-18-1990 12:56:39 Method: P:1PESTB 07-23-1990 09:00:11 # 72 *
* Interface: 0 Cycle#: 33 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

****

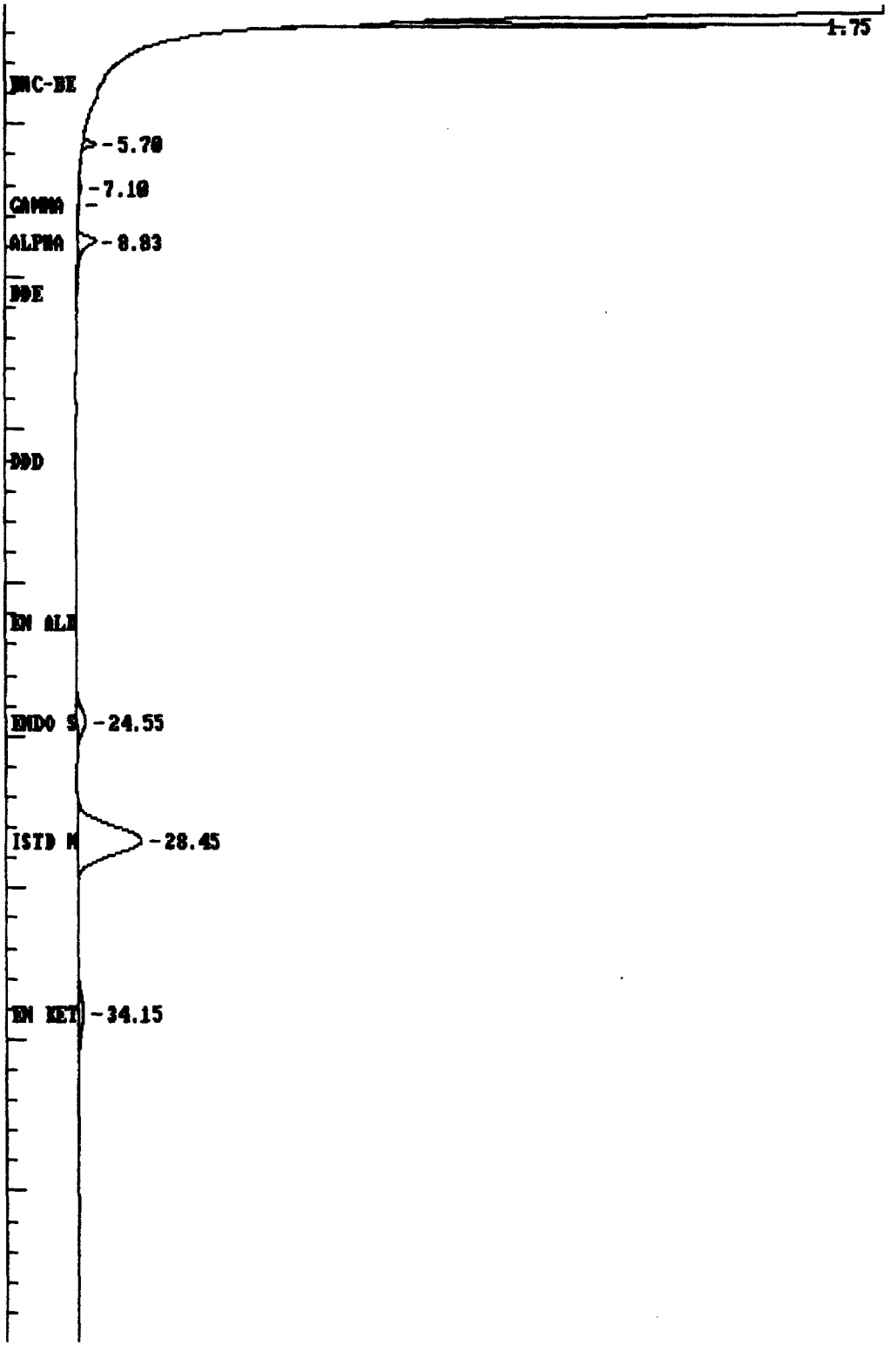
Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

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
4	7.68	GAMMA CHLORDANE	-0.0120	-26.5296%	35639	1388	25.7	2	4	7	0	-3.3666E-07
5	8.83	ALPHA CHLORDANE	0.0177	39.1028%	556365	17987	30.9	1	5	7	0	3.1785E-08
6	24.55	ENDO SULFATE	0.0427	94.3397%	554114	9795	56.6	1	6	7	0	7.6997E-08
7	28.45	ISTD MIREX	1.0000	0.0000%	4269921	65234	65.5	1	7	7	0	2.3420E-07
8	34.15	EN KETONE	-0.0031	-6.9129%	470557	6023	78.1	1	8	7	0	-6.6440E-09

TOTAL AMOUNT = 0.0452

AIC

Data File = P:1SF33.PTS Printed on 07-26-1990 at 08:10:53
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 125260 uv High Value: 940851 uv Scale factor: 1.0



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

********** 07-26-1990 07:51:29 Version 4.1 **********

* Sample Name: 90FT20[redacted] 854 Data File: P:2SF34 *

* Date: 07-18-1990 14:07:17 Method: P:2PESTA 07-23-1990 09:52:51 # 88 *

* Interface: 0 Cycle#: 34 Operator AK Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *

* Detector 0: ECD QUANT Detector 1: *

* Misc. Information: SCRN: * *

****

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 10.00

Internal Standard Amount: 1

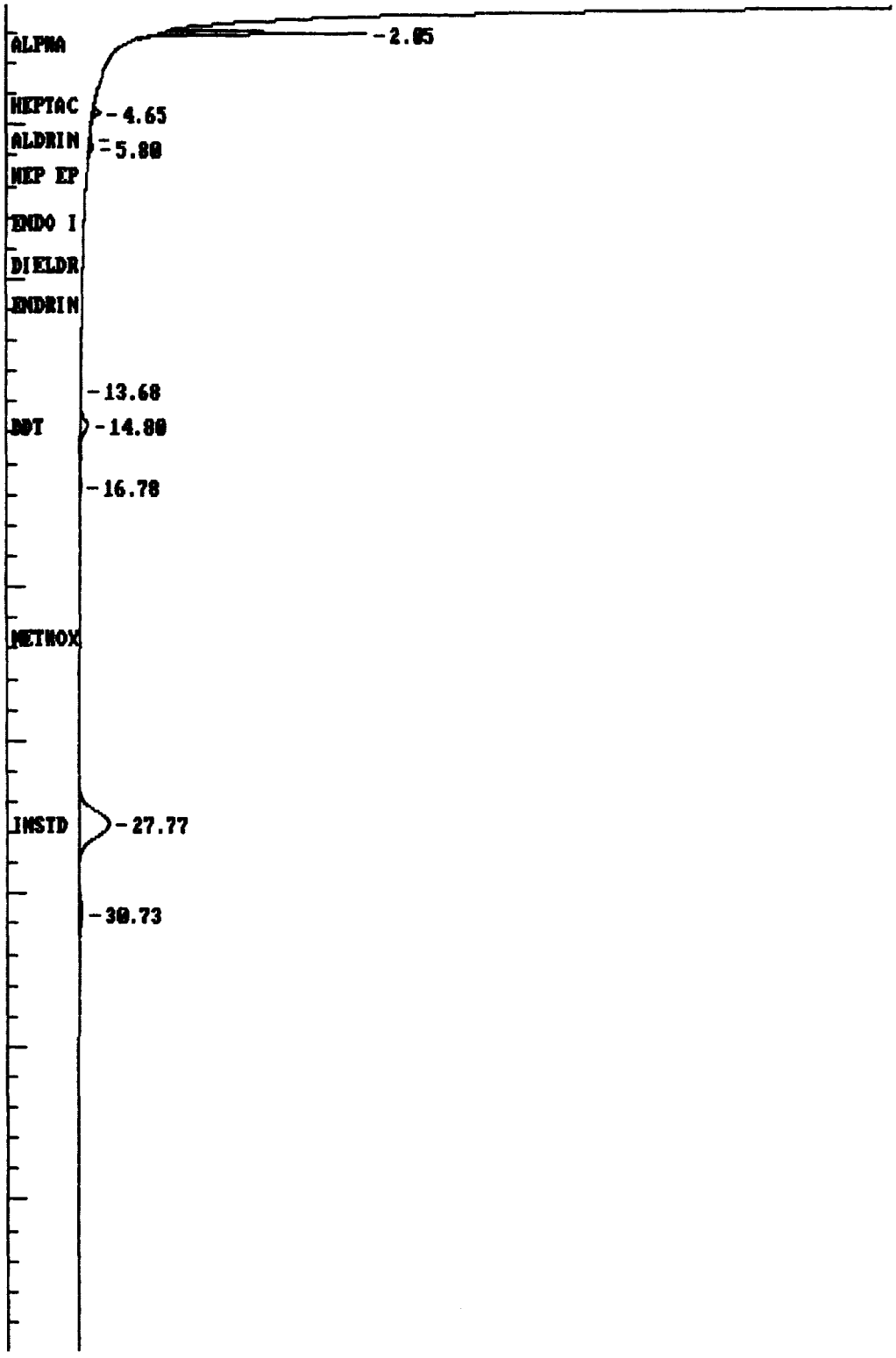
Sample Weight: 1.000000

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
3	5.48	ALDRIN	0.0040	4.3202%	23699	1439	16.5	2	3	8	0	1.6671E-07
6	14.80	DDT	0.0875	95.6798%	277564	8012	34.6	1	6	8	0	3.1524E-07
8	27.77	INSTD MIREX	1.0000	0.0000%	2038218	33901	60.1	2	8	8	0	4.9062E-07

TOTAL AMOUNT = 0.0914

not found on primary column

Data File = P:2SF34.PTS Printed on 07-26-1990 at 07:51:44
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 23094 uv High Value: 939587 uv Scale factor: 1.0



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

********** 07-26-1990 08:24:04 Version 4.1 **********

* Sample Name: 90FT20~~B54~~ 354 Data File: P:2SF34 *

* Date: 07-18-1990 14:07:17 Method: P:2PESTB 07-23-1990 09:51:14 # 65 *

* Interface: 0 Cycle#: 34 Operator AK Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *

* Detector 0: ECD QUANT Detector 1: *

* Misc. Information: SCRN: * *

****

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 10.00

Internal Standard Amount: 1

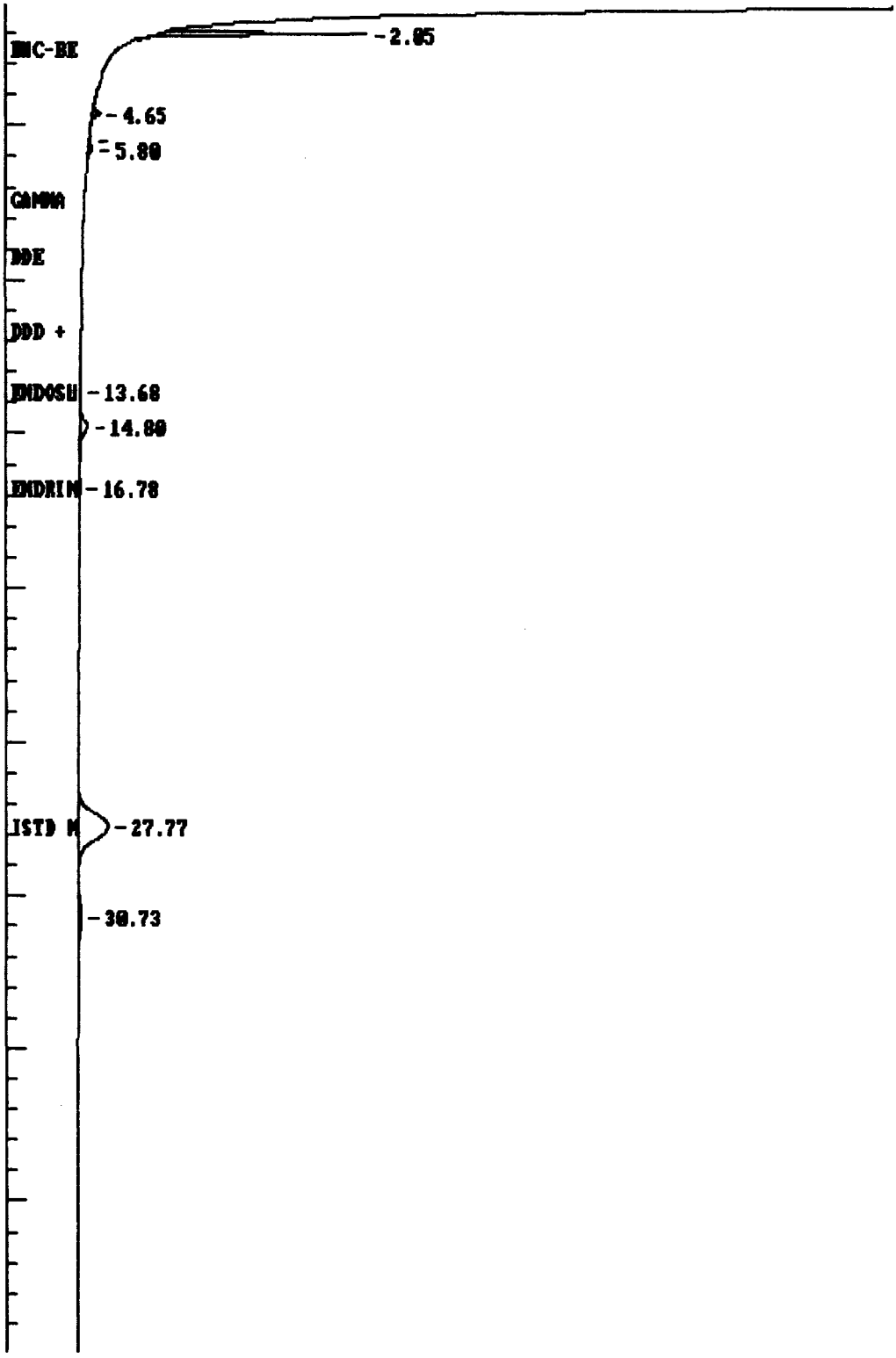
Sample Weight: 1.000000

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
5	13.~~78~~	~~ENDOSULFAN S04~~	0.0022	52.9898%	9657	405	23.8	1	5	8	0	2.2353E-07
7	16.~~70~~	~~ENDRIN KETONE~~	0.0019	47.0102%	12662	396	32.0	1	7	8	0	1.5124E-07
8	27.77	ISTD MIREX	1.0000	0.0000%	2038218	33901	60.1	2	8	8	0	4.9062E-07

TOTAL AMOUNT = 0.0041

area lower than lowest std

Data File = P:2SF34.PTS Printed on 07-26-1990 at 08:24:18
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 23094 uv High Value: 939587 uv Scale factor: 1.0

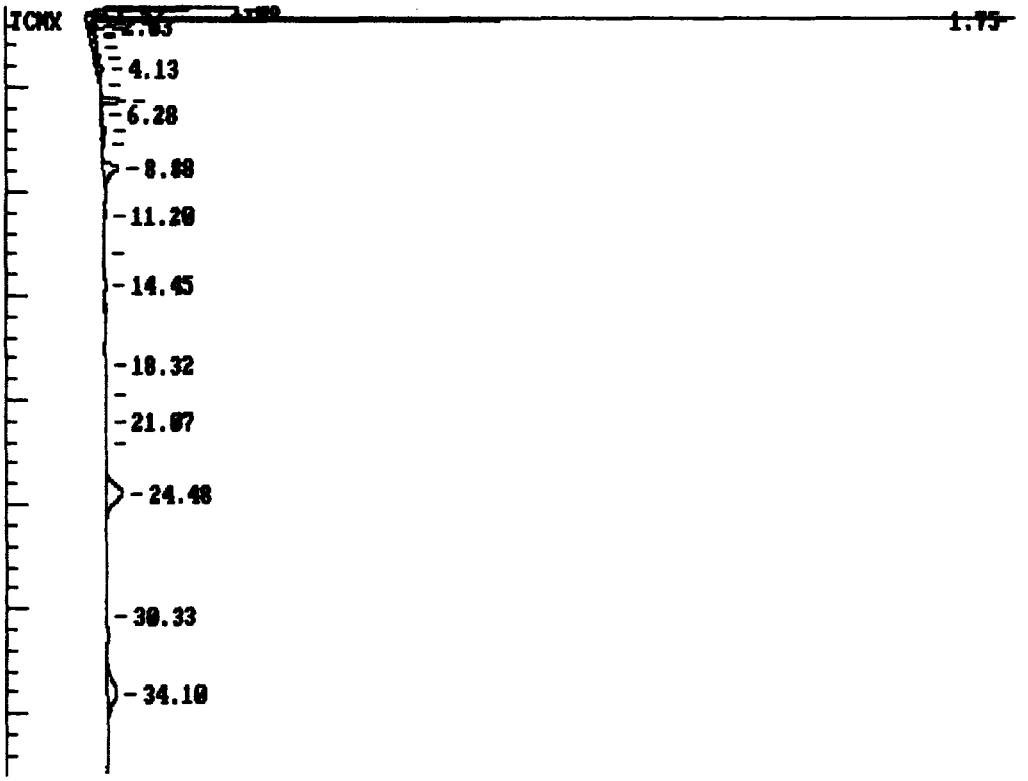


```
*****   EXTERNAL  STANDARD  TABLE   *****
******************** 07-26-1990 07:30:19 Version 4.1 **********************
* Sample Name: S54                                Data File: P:1TC17        *
* Date: 07-26-1990 03:02:04 Method: P:TCMXSTD  07-26-1990 07:15:08  #  13 *
* Interface: 0   Cycle#:  17   Operator AK  Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: MIXED/SINGLE          *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C                  *
*            Detector 0: ECD QUANT            Detector 1:                  *
* Misc. Information:                                                       *
*************************************************************************
Starting Delay:    1.00                      Ending retention time:   38.00
Area reject:         0                       One sample per   1.000 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	1.75	TCMX	0.1174	100.0000%	3214334	687779	4.7 3	4	0	3.6510E-08

TOTAL AMOUNT = 0.1174

Data File = P:1TC17.PTS Printed on 07-26-1990 at 07:30:31
Start time: 1.00 min. Stop time: 37.93 min. Offset: 0 mv.
Low Value: 113814 uv High Value: 801943 uv Scale factor: 1.0



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

********** 07-25-1990 14:28:13 Version 4.1 **********

* Sample Name: 90FT20D54 Data File: P:1SF34 *

* Date: 07-18-1990 14:07:19 Method: P:PESA 07-24-1990 08:10:24 # 103 *

* Interface: 0 Cycle#: 34 Operator AK Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *

* Detector 0: ECD QUANT Detector 1: *

* Misc. Information: SCRN: * *

****

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 10.00

Internal Standard Amount: 1

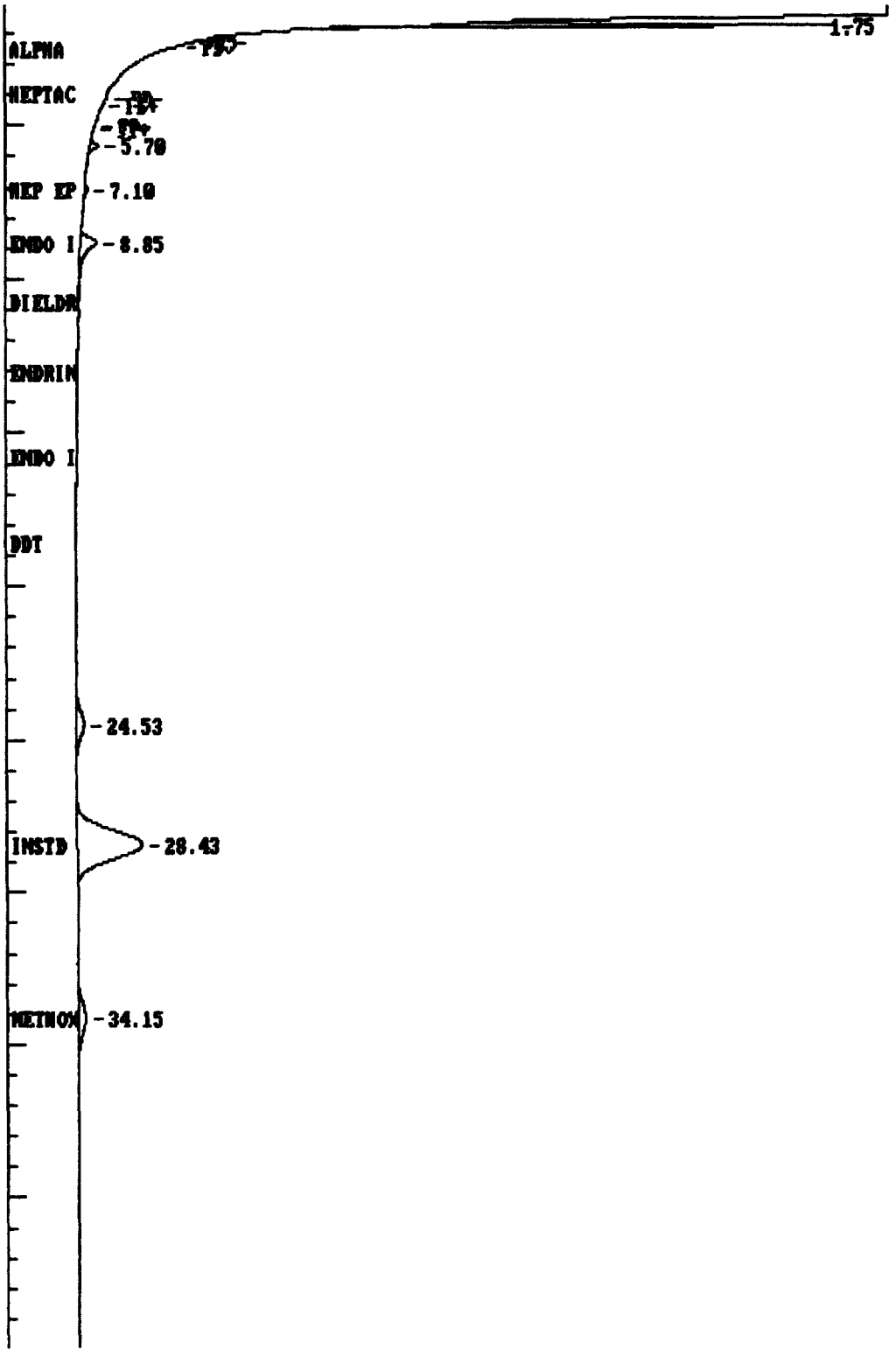
Sample Weight: 1.000000

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
3	7.10	HEP EPOX	-0.0005	-0.4981%	46497	2965	15.7	1	3	6	0	-1.0706E-08
4	8.85	ENDO I	0.0270	27.0064%	503296	15916	31.6	1	4	6	0	5.3630E-08
6	28.43	INSTD MIREX	1.0000	0.0000%	4277581	65197	65.6	1	6	6	0	2.3378E-07
7	34.15	METHOXYCHLOR	0.0735	73.4917%	581173	7430	78.2	1	7	6	0	1.2638E-07

TOTAL AMOUNT = 0.0999

XIC

Data File = P:1SF34.PTS Printed on 07-25-1990 at 14:28:28
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 124133 uv High Value: 940869 uv Scale factor: 1.0



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

********** 07-26-1990 08:11:44 Version 4.1 **********

* Sample Name: 90FT20D54 Data File: P:1SF34 *
* Date: 07-18-1990 14:07:19 Method: P:1PESTB 07-23-1990 09:00:11 # 72 *
* Interface: 0 Cycle#: 34 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: SCRN: * *

****

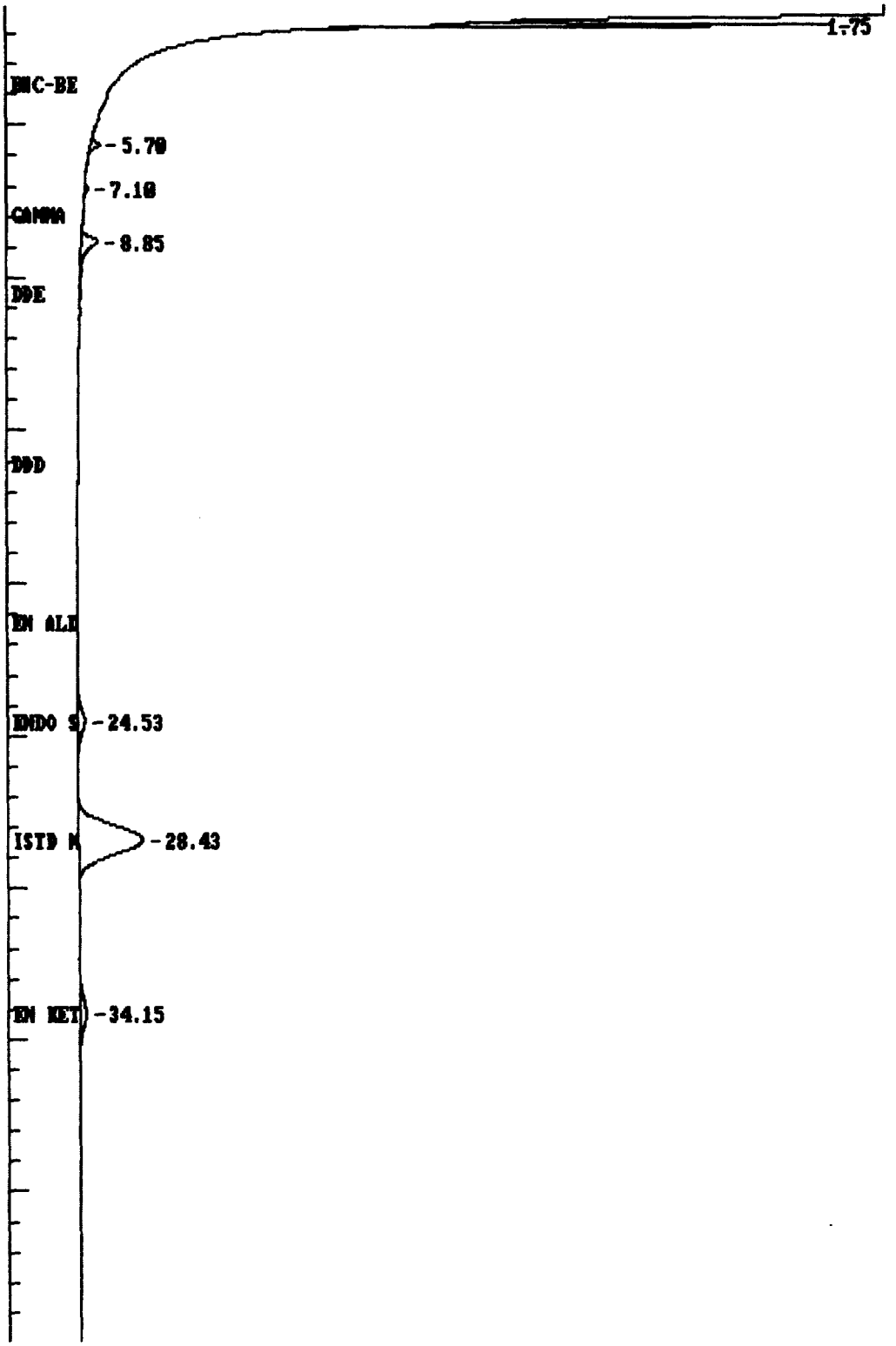
Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

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
4	8.80	ALPHA CHLORDANE	0.0148	29.3420%	503296	15916	31.6	1	4	6	0	2.9362E-08
5	24.53	ENDO SULFATE	0.0322	63.8457%	440480	7754	56.8	1	5	6	0	7.3000E-08
6	28.43	ISTD MIREX	1.0000	0.0000%	4277581	65197	65.6	1	6	6	0	2.3378E-07
7	34.15	EN-KETONE	0.0034	6.8123%	581173	7430	78.2	1	7	6	0	5.9034E-09

TOTAL AMOUNT = 0.0504

XC

Data File = P:1SF34.PTS Printed on 07-26-1990 at 08:11:59
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 124133 uv High Value: 940869 uv Scale factor: 1.0



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

********** 07-26-1990 07:52:35 Version 4.1 **********

* Sample Name: ~~90FT02R95~~ 90FT20D54 Data File: P:2SF35 *

* Date: 07-18-1990 14:14:18 Method: P:2PESTA 07-23-1990 09:52:51 # 88 *

* Interface: 0 Cycle#: 35 Operator AK Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *

* Detector 0: ECD QUANT Detector 1: *

* Misc. Information: SCRN: * *

****

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 10.00

Internal Standard Amount: 1

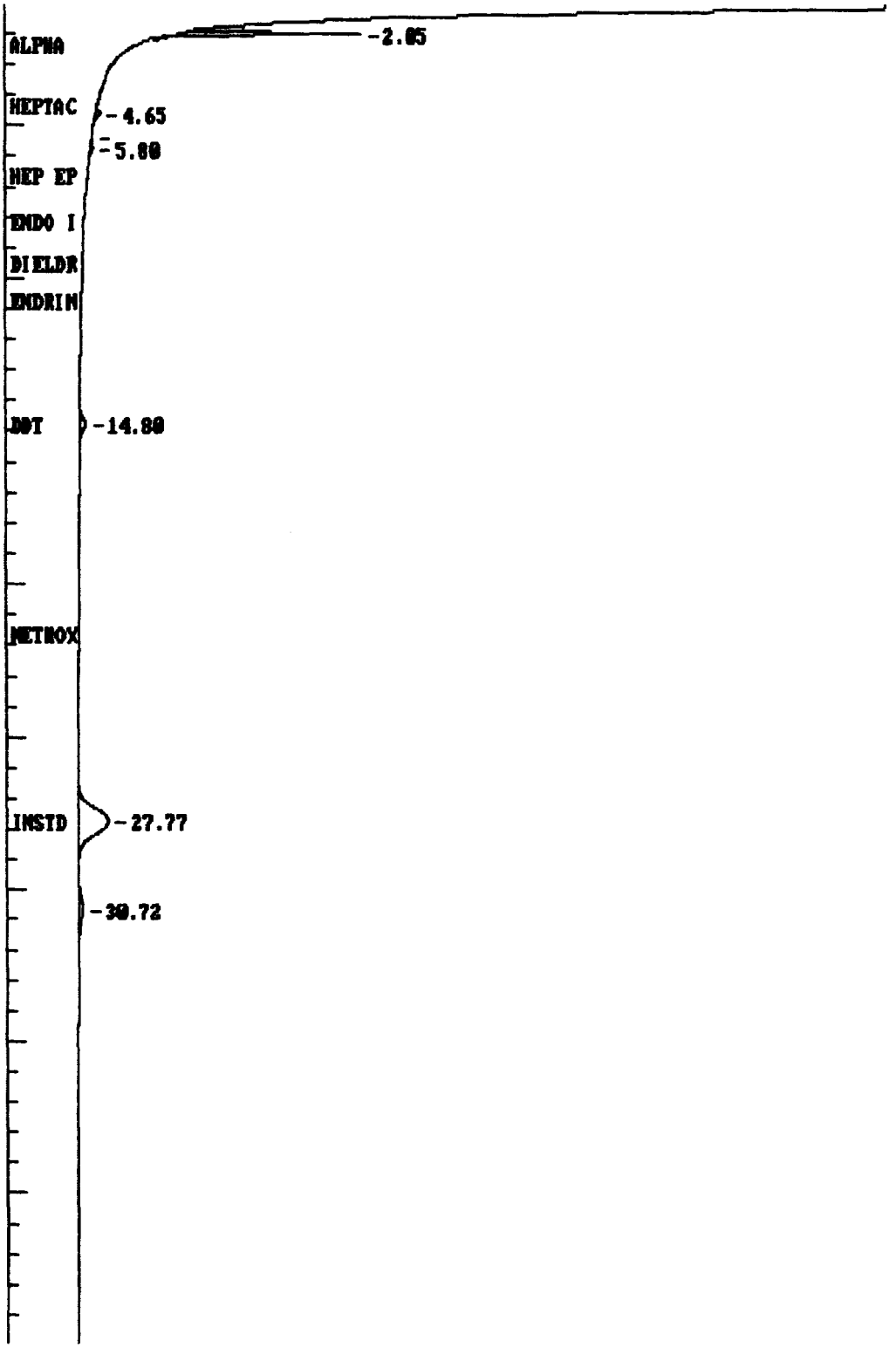
Sample Weight: 1.000000

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
3	~~5.47~~	~~ALDRIN~~	0.0044	6.1199%	26467	1399	18.9	2	3	6	0	1.6575E-07
5	~~14.00~~	~~DDT~~	0.0673	93.8801%	214709	6224	34.5	1	5	6	0	3.1343E-07
6	27.77	INSTD MIREX	1.0000	0.0000%	2049989	34102	60.1	2	6	6	0	4.8781E-07

TOTAL AMOUNT = 0.0717

not found on primary column

Data File = P:2SF35.PTS Printed on 07-26-1990 at 07:52:49
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 22512 uv High Value: 939592 uv Scale factor: 1.0



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

********** 07-26-1990 08:25:09 Version 4.1 **********

* Sample Name: ~~90FT02R95~~ 90FT20DS4 Data File: P:2SF35 *
* Date: 07-18-1990 14:14:18 Method: P:2PESTB 07-23-1990 09:51:14 # 65 *
* Interface: 0 Cycle#: 35 Operator AK Channel#: 1 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: SCRN: * *

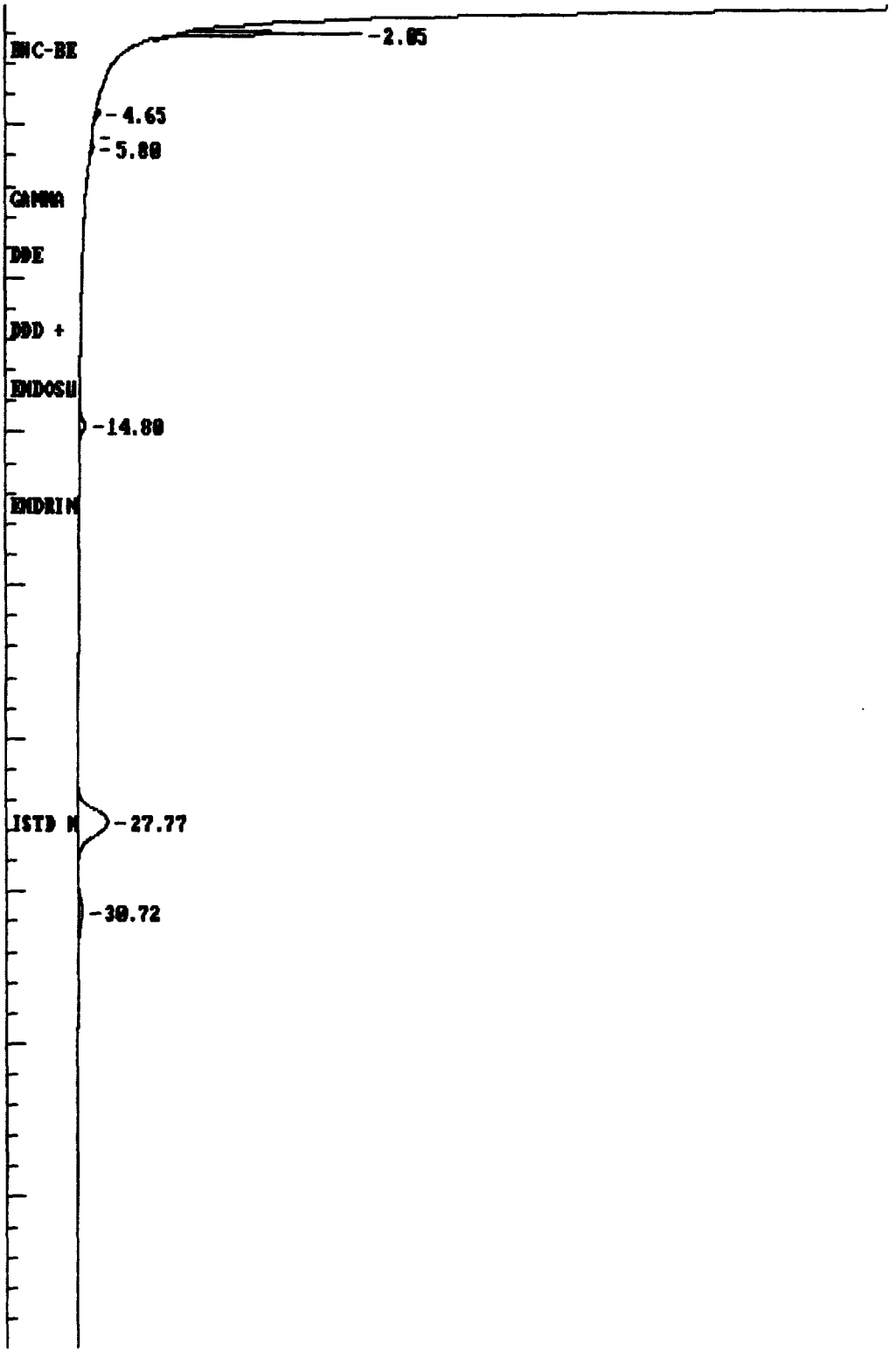
****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
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
6	27.77	ISTD MIREX	1.0000	0.0000%	2049989	34102	60.1	2	6	6	0	4.8781E-07

TOTAL AMOUNT = 0.0000

Data File = P:2SF35.PTS Printed on 07-26-1990 at 08:25:21
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 22512 uv High Value: 939592 uv Scale factor: 1.0

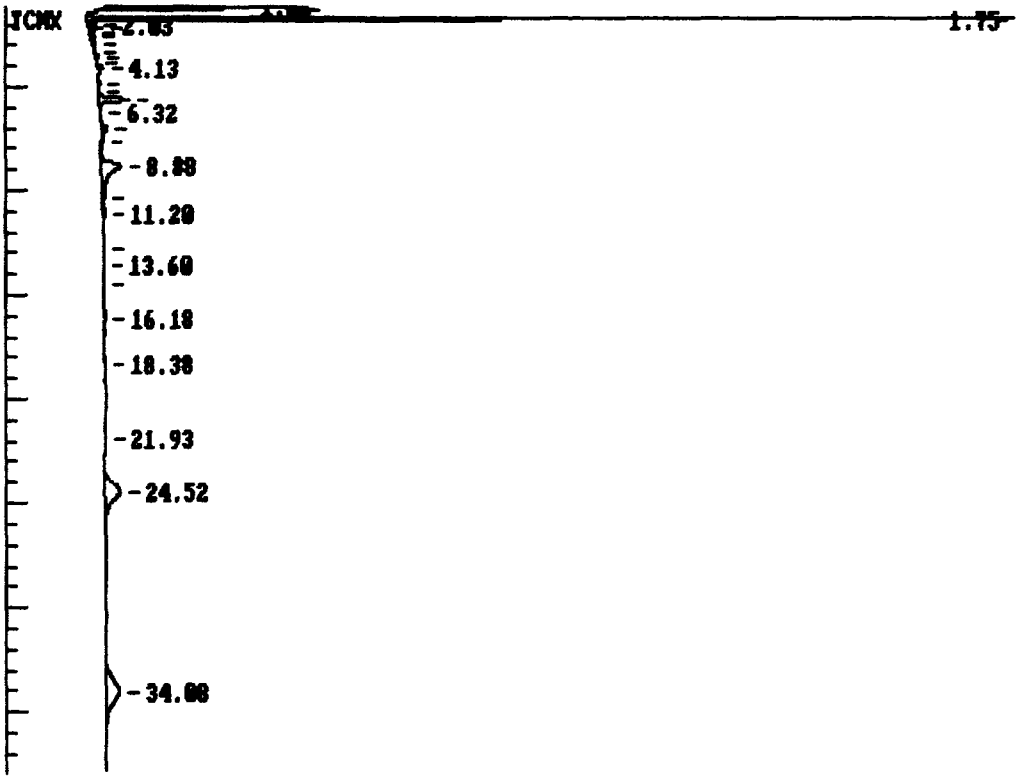


```
*****   EXTERNAL STANDARD TABLE   *****
******************** 07-26-1990 07:28:42 Version 4.1 **********************
* Sample Name: D54                                Data File: P:1TC15       *
* Date: 07-26-1990 01:41:22 Method: P:TCMXSTD  07-26-1990 07:15:08  #  13 *
* Interface: 0   Cycle#:  15   Operator AK  Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
***********************************************************************
* Instrument Type: HP 5890A #1          Column Type: MIXED/SINGLE         *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C                 *
*             Detector 0: ECD QUANT           Detector 1:                 *
* Misc. Information:                                                      *
***********************************************************************
Starting Delay:    1.00                     Ending retention time:    38.00
Area reject:        0                       One sample per   1.000 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	1.75	TCMX	0.1012	100.0000%	2771165	595590	4.7	3	3	0	3.6510E-08

TOTAL AMOUNT = 0.1012

Data File = P:1TC15.PTS Printed on 07-26-1990 at 07:28:54
Start time: 1.00 min. Stop time: 37.93 min. Offset: 0 mv.
Low Value: 119606 uv High Value: 715579 uv Scale factor: 1.0



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

********** 07-25-1990 14:29:21 Version 4.1 **********

* Sample Name: 90FT02R95 Data File: P:1SF35 *
* Date: 07-18-1990 14:14:19 Method: P:PESA 07-24-1990 08:10:24 # 103 *
* Interface: 0 Cycle#: 35 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: SCRN: * *

****

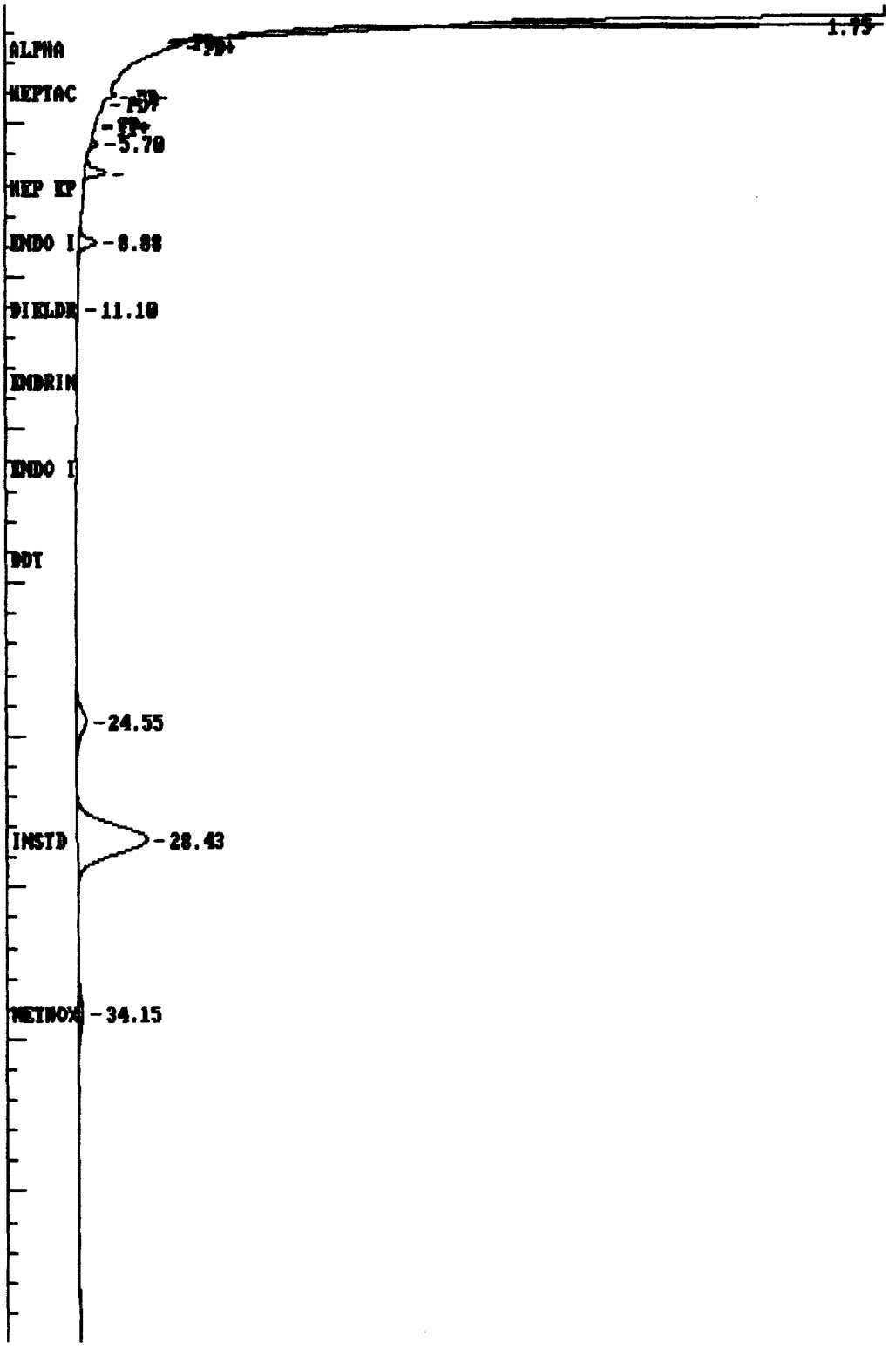
Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

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
4	8.80	ENDO I	0.0160	27.3732%	344540	16694	20.6	1	4	7	0	4.6410E-08
5	11.10	DIELDRIN	-0.0004	-0.6786%	34480	1169	29.5	1	5	7	0	-1.1496E-08
7	28.43	INSTD MIREX	1.0000	0.0000%	4624363	70394	65.7	1	7	7	0	2.1625E-07
8	34.15	METHOXYCHLOR	0.0428	73.3054%	315629	4262	74.1	1	8	7	0	1.3567E-07

TOTAL AMOUNT = 0.0584

NC

Data File = P:1SF35.PTS Printed on 07-25-1990 at 14:29:36
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 121326 uv High Value: 940875 uv Scale factor: 1.0



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

********** 07-26-1990 08:08:19 Version 4.1 **********

* Sample Name: 90FT02R95 Data File: P:1SF35 *
* Date: 07-18-1990 14:14:19 Method: P:1PESTB 07-23-1990 09:00:11 # 72 *
* Interface: 0 Cycle#: 35 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: SCRN: * *

****

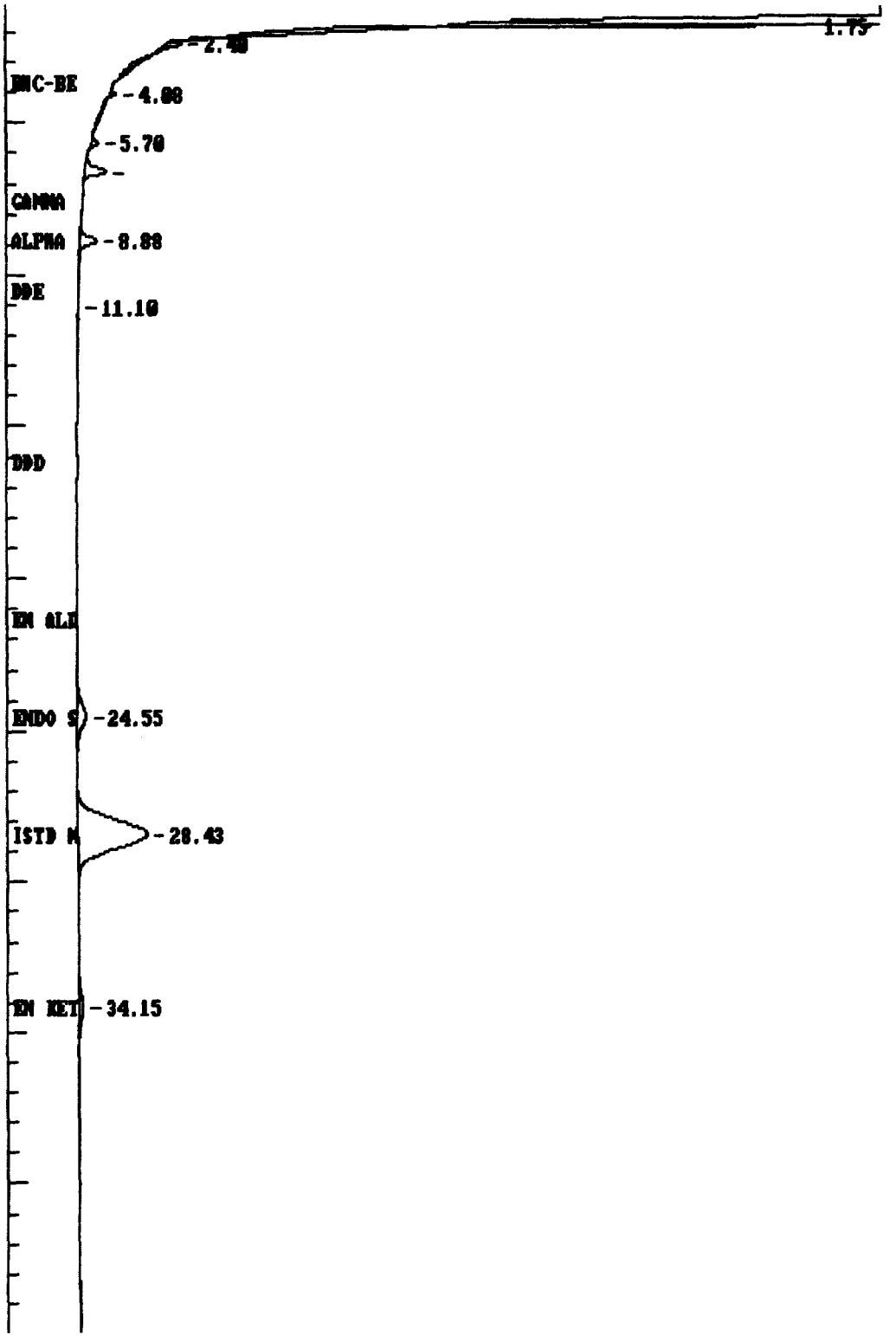
Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

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
3	4.~~08~~	~~BHC-DELTA~~	-0.0007	-3.3039%	30497	6770	4.5	1	3	9	0	-2.1845E-08
6	8.~~88~~	~~ALPHA CHLORDANE~~	0.0049	24.0726%	344540	16694	20.6	1	6	9	0	1.4089E-08
7	11.~~10~~	~~DDE~~	-0.0057	-28.2762%	34480	1169	29.5	1	6	9	4.899	-1.6537E-07
8	24.~~55~~	~~ENDO SULFATE~~	0.0355	176.1689%	515912	9201	56.1	1	8	9	0	6.8857E-08
9	28.43	ISTD MIREX	1.0000	0.0000%	4624363	70394	65.7	1	9	9	0	2.1625E-07
10	34.~~15~~	~~EN KETONE~~	-0.0138	-68.6614%	315629	4262	74.1	1	10	9	0	-4.3866E-08

TOTAL AMOUNT = 0.0202

NC

Data File = P:1SF35.PTS Printed on 07-26-1990 at 08:08:35
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 121326 uv High Value: 940875 uv Scale factor: 1.0



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

********** 07-26-1990 07:53:40 Version 4.1 **********

* Sample Name: ~~PCB SPK 90FT20S53~~ 90FT02R95 Data File: P:2SF36 *

* Date: 07-18-1990 15:01:33 Method: P:2PESTA 07-23-1990 09:52:51 # 88 *

* Interface: 0 Cycle#: 36 Operator AK Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *

* Detector 0: ECD QUANT Detector 1: *

* Misc. Information: SCRN: * *

****

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 10.00

Internal Standard Amount: 1

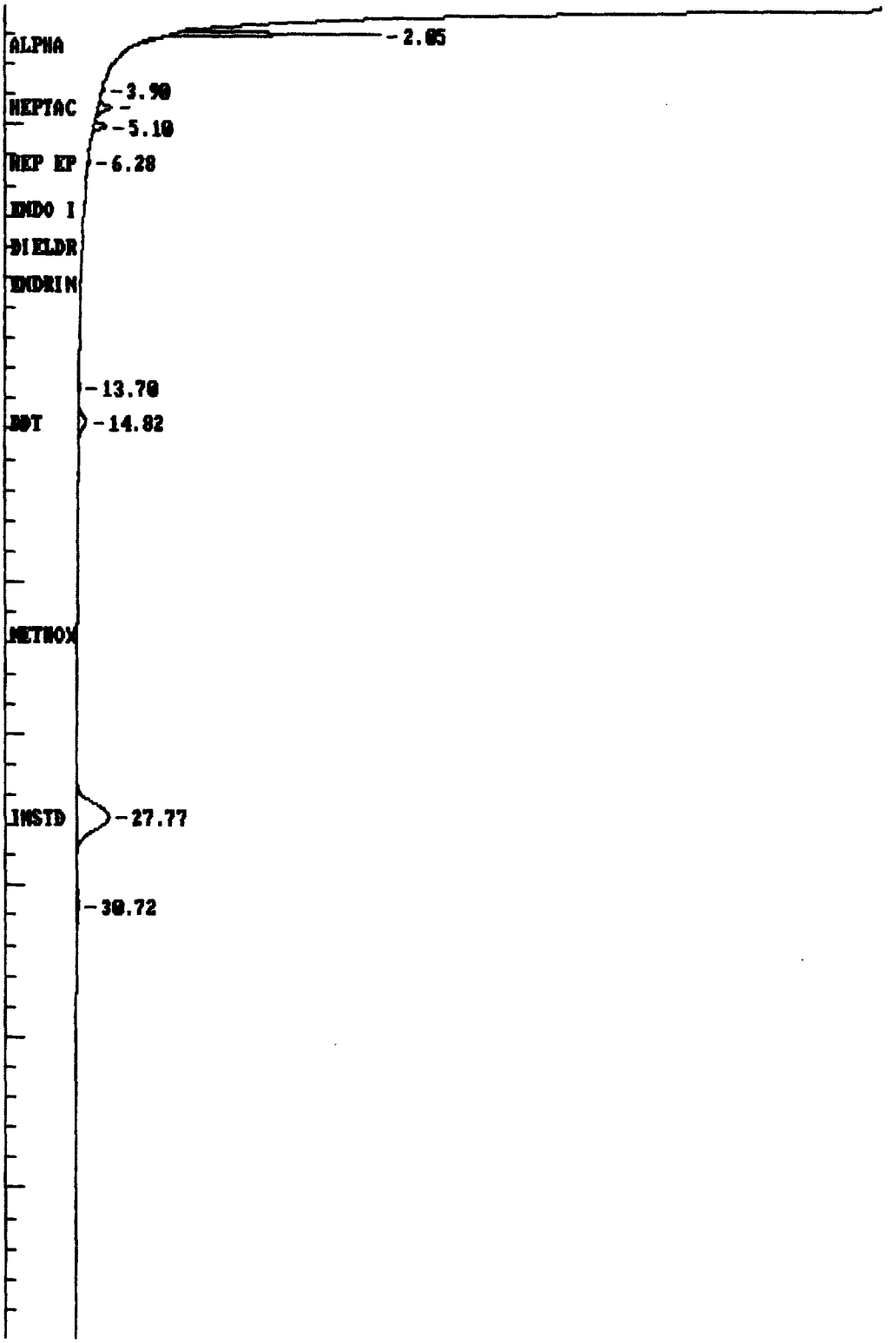
Sample Weight: 1.000000

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
3	~~4.49~~	~~HEPTACHLOR~~	0.0309	21.5537%	258094	17458	14.8	2	3	8	0	1.1965E-07
4	~~5.10~~	~~ALDRIN~~	0.0256	17.8439%	169087	14618	11.6	1	4	8	0	1.5120E-07
5	~~6.28~~	~~HEP EPOX~~	0.0031	2.1392%	23646	1656	14.3	1	5	8	0	1.2962E-07
7	~~14.82~~	~~DDT~~	0.0838	58.4633%	292969	8517	34.4	1	7	8	0	2.8591E-07
8	27.77	INSTD MIREX	1.0000	0.0000%	2247284	37319	60.2	2	8	8	0	4.4498E-07

TOTAL AMOUNT = 0.1433

Not found on primary Colum

Data File = P:2SF36.PTS Printed on 07-26-1990 at 07:53:57
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 22392 uv High Value: 939547 uv Scale factor: 1.0



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

********** 07-26-1990 08:21:55 Version 4.1 **********

* Sample Name: ~~PCB SPK 90FT20553~~ 90FT02R95 Data File: P:2SF36 *

* Date: 07-18-1990 15:01:33 Method: P:2PESTB 07-23-1990 09:51:14 # 65 *

* Interface: 0 Cycle#: 36 Operator AK Channel#: 1 Vial#: N.A. *

* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *

* Detector 0: ECD QUANT Detector 1: *

* Misc. Information: SCRN: * *

****

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 10.00

Internal Standard Amount: 1

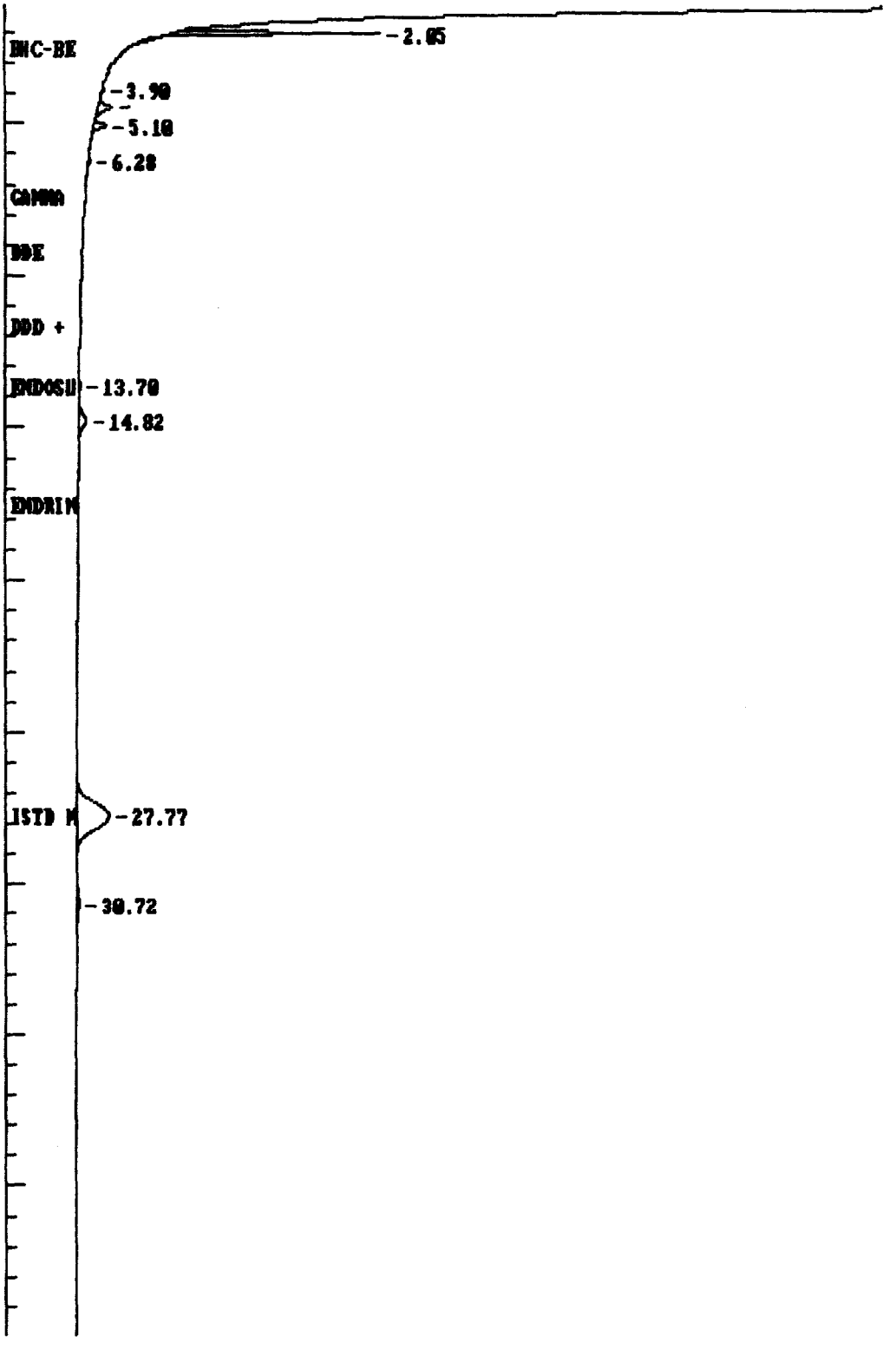
Sample Weight: 1.000000

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
6	13.70	~~ENDOSULFAN-S04~~	0.0026	100.0000%	12597	510	24.7	1	6	8	0	2.0273E-07
8	27.77	ISTD MIREX	1.0000	0.0000%	2247284	37319	60.2	2	8	8	0	4.4498E-07

TOTAL AMOUNT = 0.0026

area lower Than lowest std

Data File = P:2SF36.PTS Printed on 07-26-1990 at 08:22:08
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 22392 uv High Value: 939547 uv Scale factor: 1.0

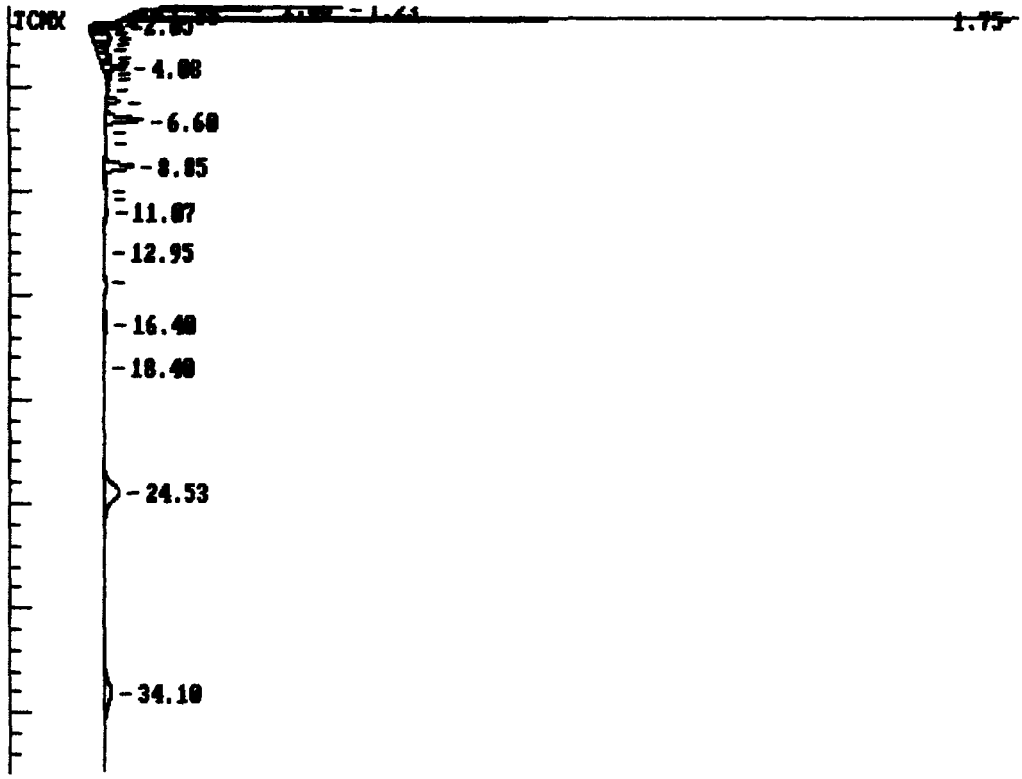


```
*****   EXTERNAL STANDARD TABLE   *****
******************** 07-26-1990 07:25:22 Version 4.1 **********************
* Sample Name: R95                                Data File: P:1TC11       *
* Date: 07-25-1990 23:00:06 Method: P:TCMXSTD  07-26-1990 07:15:08  #  13 *
* Interface: 0   Cycle#:  11   Operator AK  Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
***********************************************************************
* Instrument Type: HP 5890A #1          Column Type: MIXED/SINGLE         *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C                 *
*            Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information:                                                      *
***********************************************************************
Starting Delay:    1.00                    Ending retention time:    38.00
Area reject:        0                      One sample per   1.000 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	1.75	TCMX	0.1166	100.0000%	3193937	708622	4.5	3	4	0	3.6510E-08

TOTAL AMOUNT = 0.1166

Data File = P:1TC11.PTS Printed on 07-26-1990 at 07:25:34
Start time: 1.00 min. Stop time: 37.93 min. Offset: 0 mv.
Low Value: 117013 uv High Value: 848372 uv Scale factor: 1.0



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

********** 07-24-1990 08:20:02 Version 4.1 **********

Sample Name: PEST STD A LEVEL 1 Data File: P:1SF1

Date: 07-12-1990 11:50:15 Method: P:PESA 07-24-1990 08:10:24 # 103

Interface: 0 Cycle#: 1 Operator AK Channel#: 0 Vial#: N.A.

Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000

Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE

Solvent Description: ULTRA HIGH PURITY NITROGEN

Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C

Detector 0: ECD QUANT Detector 1:

Misc. Information:

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 1.00

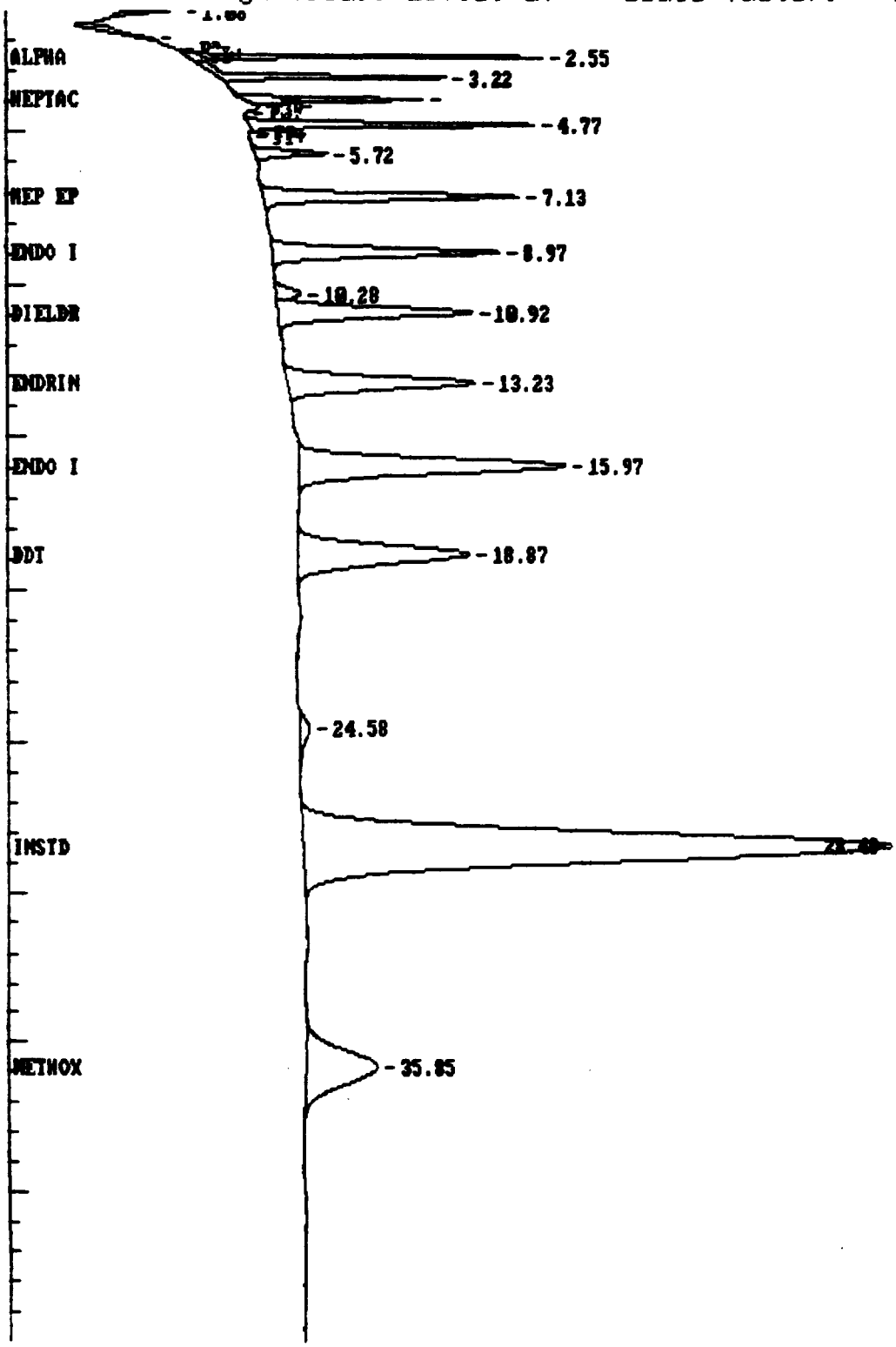
Internal Standard Amount: 1

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
3	2.55	ALPHA BHC	0.0011	3.0871%	322537	51615	6.2	2	3	16	0	3.5448E-09
4	3.22	LINDANE	0.0009	2.4832%	271046	32984	8.2	2	4	16	0	3.3931E-09
5	3.95	HEPTACHLOR	0.0009	2.4497%	226640	25555	8.9	1	5	16	0	4.0031E-09
6	4.77	ALDRIN	0.0019	5.0357%	455049	41745	10.9	1	6	16	0	4.0985E-09
8	7.13	HEP EPOX	0.0022	6.0644%	615489	37585	16.4	1	8	16	0	3.6491E-09
9	8.97	ENDO I	0.0027	7.3095%	677616	33416	20.3	1	9	16	0	3.9950E-09
11	10.92	DIELDRIN	0.0027	7.3480%	699638	28344	24.7	2	11	16	0	3.8897E-09
12	13.23	ENDRIN	0.0049	13.2911%	802375	27625	29.0	1	12	16	0	6.1348E-09
13	15.97	ENDO II	0.0059	16.0264%	1380917	38986	35.4	1	13	16	0	4.2982E-09
14	18.87	DDT	0.0063	16.9182%	1049778	25093	41.8	1	14	16	0	5.9687E-09
16	28.48	INSTD MIREX	1.0000	0.0000%	5743935	86190	66.6	1	16	16	0	1.7410E-07
17	35.85	METHOXYCHLOR	0.0074	19.9866%	787629	10273	76.7	1	17	16	0	9.3980E-09

TOTAL AMOUNT = 0.0370

Data File = P:1SF1.PTS Printed on 07-24-1990 at 08:20:25
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 120332 uv High Value: 239060 uv Scale factor: 1.0



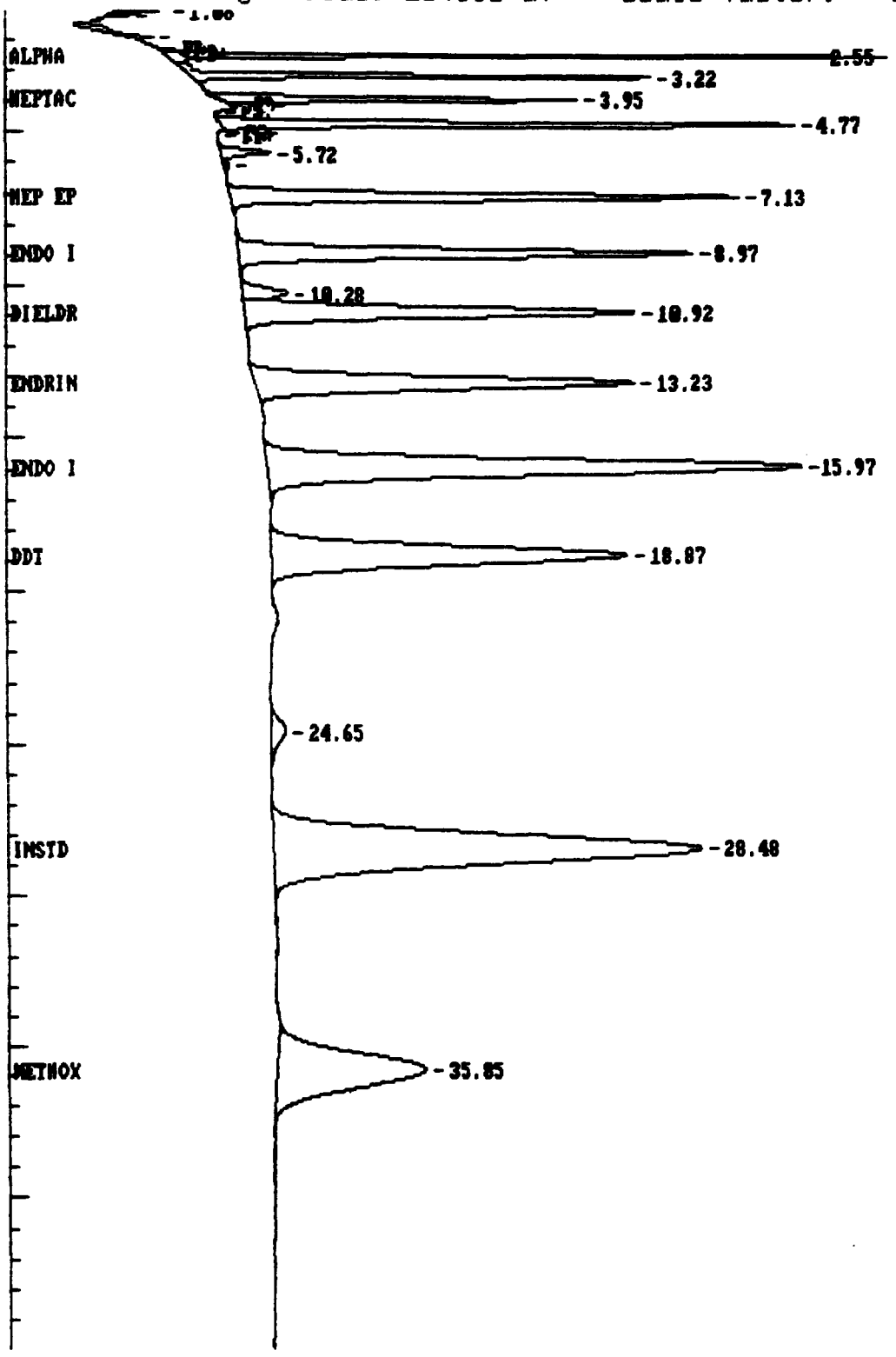
***** INTERNAL STANDARD TABLE *****

```
******************** 07-24-1990 08:21:43 Version 4.1 **********************
* Sample Name: PEST STD A LEVEL 2                Data File: P:1SF2         *
* Date: 07-17-1990 12:12:59 Method: P:PESA  07-24-1990 08:10:24  #  103    *
* Interface: 0   Cycle#:  2    Operator AK  Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: MIXED/SINGLE          *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C                  *
*             Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information:                                                       *
*************************************************************************
Starting Delay:    1.00                      Ending retention time:   45.00
Area reject:         0                       One sample per   1.000 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
4	2.55	ALPHA BHC	0.0033	3.2231%	792086	127714	6.2	2	4	18	0	4.1086E-09
5	3.22	LINDANE	0.0027	2.6890%	643069	81412	7.9	2	5	18	0	4.2221E-09
6	3.95	HEPTACHLOR	0.0027	2.6680%	570104	62959	9.1	1	6	18	0	4.7252E-09
7	4.77	ALDRIN	0.0053	5.2839%	1113375	101825	10.9	1	7	18	0	4.7919E-09
10	7.13	HEP EPOX	0.0067	6.6288%	1481180	90343	16.4	1	10	18	0	4.5188E-09
11	8.97	ENDO I	0.0081	7.9916%	1655857	80764	20.5	2	11	18	0	4.8731E-09
13	10.92	DIELDRIN	0.0080	7.9463%	1721887	69303	24.8	2	13	18	0	4.6597E-09
14	13.23	ENDRIN	0.0133	13.1753%	1970992	67436	29.2	1	14	18	0	6.7495E-09
15	15.97	ENDO II	0.0159	15.7113%	3449788	94981	36.3	1	15	18	0	4.5985E-09
16	18.87	DDT	0.0155	15.3460%	2663360	63401	42.0	1	16	18	0	5.8178E-09
18	28.48	INSTD MIREX	1.0000	0.0000%	5043772	76150	66.2	1	18	18	0	1.9826E-07
19	35.85	METHOXYCHLOR	0.0195	19.3367%	2041237	26228	77.8	1	19	18	0	9.5649E-09

TOTAL AMOUNT = 0.1010

ata File = P:1SF2.PTS Printed on 07-24-1990 at 08:22:06
tart time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
ow Value: 119909 uv High Value: 264116 uv Scale factor: 1.0



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

********** 07-24-1990 08:23:28 Version 4.1 **********

Sample Name: PEST STD A LEVEL 3 Data File: P:1SF3

Date: 07-17-1990 14:05:02 Method: P:PESA 07-24-1990 08:10:24 # 103

Interface: 0 Cycle#: 3 Operator AK Channel#: 0 Vial#: N.A.

Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000

Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE

Solvent Description: ULTRA HIGH PURITY NITROGEN

Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C

Detector 0: ECD QUANT Detector 1:

Misc. Information:

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 1.00

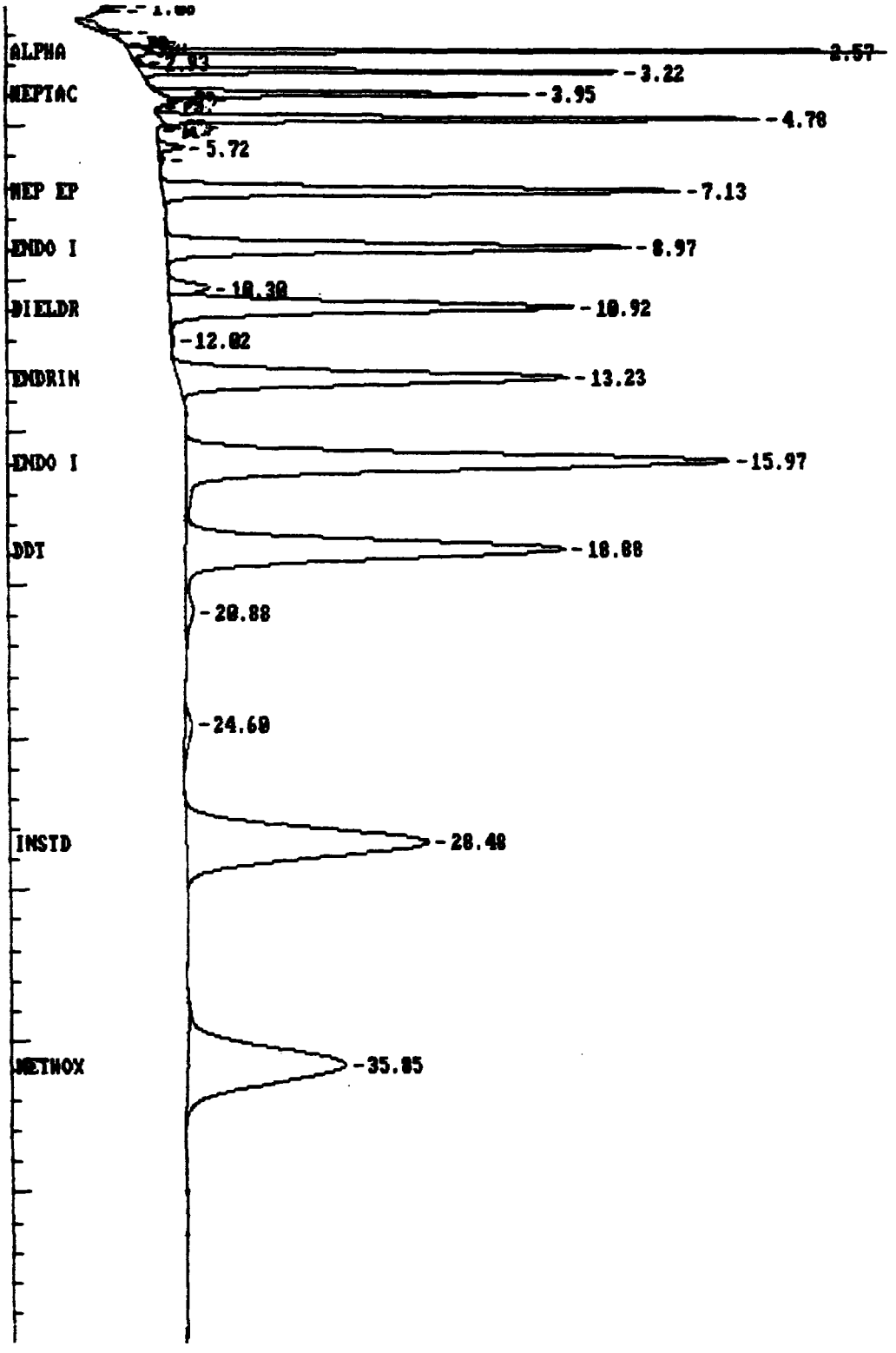
Internal Standard Amount: 1

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
4	2.57	ALPHA BHC	0.0062	3.3122%	1595105	254082	6.3	3	4	21	0	3.8691E-09
6	3.22	LINDANE	0.0049	2.6282%	1211146	159855	7.6	2	6	21	0	4.0434E-09
7	3.95	HEPTACHLOR	0.0050	2.6596%	1109280	121749	9.1	1	7	21	0	4.4673E-09
8	4.78	ALDRIN	0.0099	5.3046%	2185851	200543	10.9	1	8	21	0	4.5218E-09
11	7.13	HEP EPOX	0.0123	6.6186%	2852568	173600	16.4	1	11	21	0	4.3232E-09
12	8.97	ENDO I	0.0149	7.9810%	3201933	155454	20.6	2	12	21	0	4.6443E-09
14	10.92	DIELDRIN	0.0149	8.0124%	3375734	135145	25.0	3	14	21	0	4.4225E-09
16	13.23	ENDRIN	0.0241	12.9404%	3844930	131014	29.3	1	16	21	0	6.2710E-09
17	15.97	ENDO II	0.0288	15.4434%	6783809	182608	37.1	2	17	21	0	4.2417E-09
18	18.88	DDT	0.0287	15.3841%	5492290	127531	43.1	3	18	21	0	5.2191E-09
21	28.48	INSTD MIREX	1.0000	0.0000%	5380537	81285	66.2	1	21	21	0	1.8586E-07
22	35.85	METHOXYCHLOR	0.0367	19.7155%	4221670	52795	80.0	1	22	21	0	8.7016E-09

TOTAL AMOUNT = 0.1863

Data File = P:1SF3.PTS Printed on 07-24-1990 at 08:23:50
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 119901 uv High Value: 391489 uv Scale factor: 1.0



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

********** 07-24-1990 08:25:03 Version 4.1 **********

* Sample Name: PEST STD A LEVEL 4 Data File: P:1SF4 *
* Date: 07-17-1990 14:07:47 Method: P:PESA 07-24-1990 08:10:24 # 103 *
* Interface: 0 Cycle#: 4 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

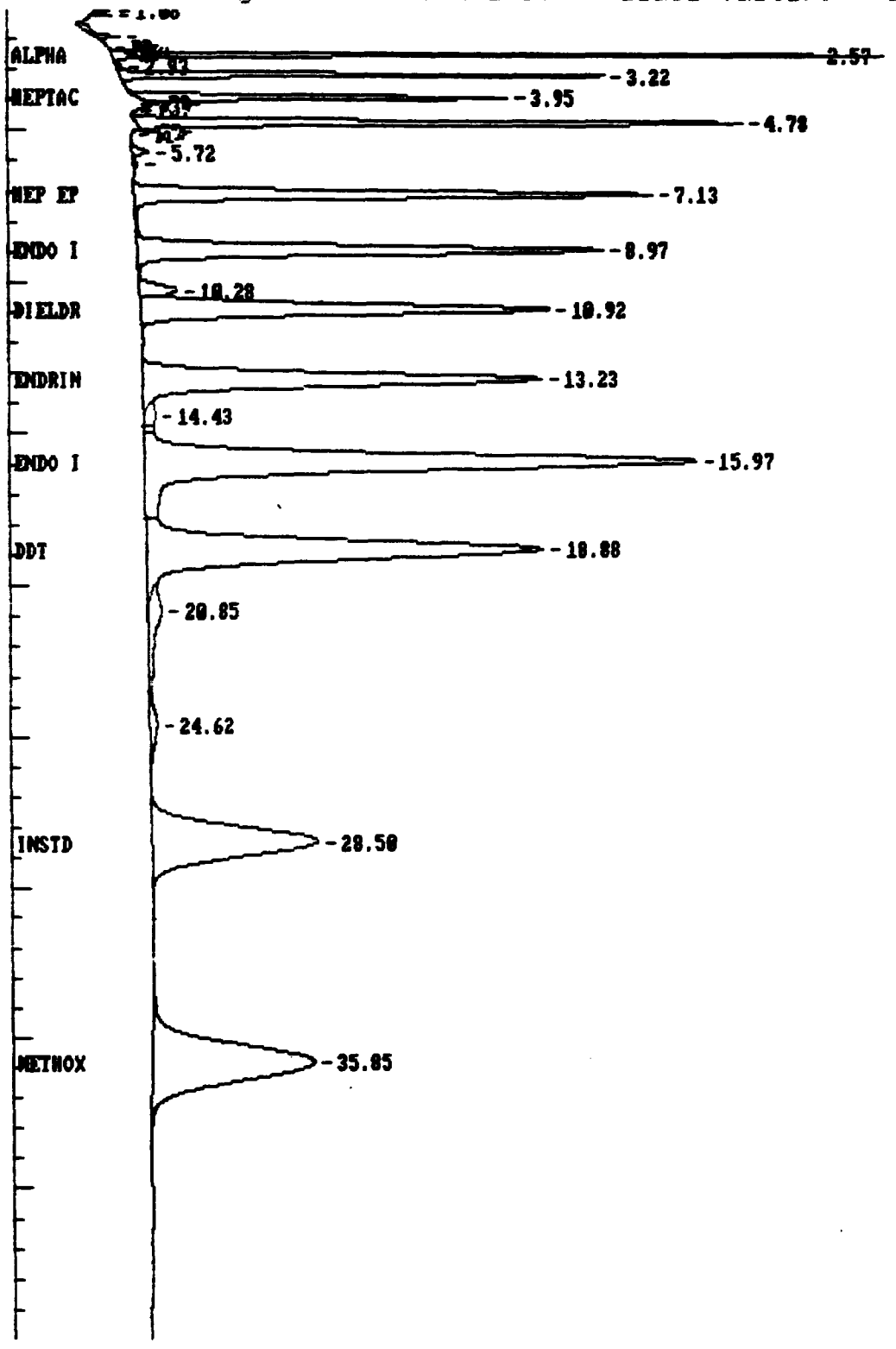
* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 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
4	2.57	ALPHA BHC	0.0092	3.2344%	2390709	382086	6.3	3	4	21	0	3.8467E-09
6	3.22	LINDANE	0.0073	2.5850%	1814946	239454	7.6	2	6	21	0	4.0495E-09
7	3.95	HEPTACHLOR	0.0073	2.5820%	1650226	180848	9.1	1	7	21	0	4.4486E-09
8	4.78	ALDRIN	0.0147	5.1746%	3269783	299416	10.9	1	8	21	0	4.4995E-09
11	7.13	HEP EPOX	0.0185	6.4956%	4269163	256433	16.6	2	11	21	0	4.3260E-09
12	8.97	ENDO I	0.0221	7.7749%	4764466	230342	20.7	2	12	21	0	4.6397E-09
14	10.92	DIELDRIN	0.0221	7.7637%	5005204	201735	24.8	2	14	21	0	4.4102E-09
15	13.23	ENDRIN	0.0371	13.0650%	5990944	197375	30.4	3	15	21	0	6.2005E-09
17	15.97	ENDO II	0.0451	15.8590%	10786267	273506	39.4	2	17	21	0	4.1804E-09
18	18.88	DDT	0.0452	15.9077%	8893134	196422	45.3	3	18	21	0	5.0859E-09
21	28.50	INSTD MIREX	1.0000	0.0000%	5421002	81908	66.2	1	21	21	0	1.8447E-07
22	35.85	METHOXYCHLOR	0.0556	19.5581%	6511778	79718	81.7	1	22	21	0	8.5396E-09

TOTAL AMOUNT = 0.2843

Data File = P:1SF4.PTS Printed on 07-24-1990 at 08:25:26
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 120517 uv High Value: 519495 uv Scale factor: 1.0



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

********** 07-24-1990 08:26:36 Version 4.1 **********

Sample Name: PEST STD A LEVEL 5 Data File: P:1SF5

Date: 07-17-1990 14:35:07 Method: P:PESA 07-24-1990 08:10:24 # 103

Interface: 0 Cycle#: 5 Operator AK Channel#: 0 Vial#: N.A.

Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000

Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE

Solvent Description: ULTRA HIGH PURITY NITROGEN

Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C

Detector 0: ECD QUANT Detector 1:

Misc. Information:

tarting Delay: 1.00 Ending retention time: 45.00

rea reject: 0 One sample per 1.000 sec.

mount injected: 1.00 Dilution factor: 1.00

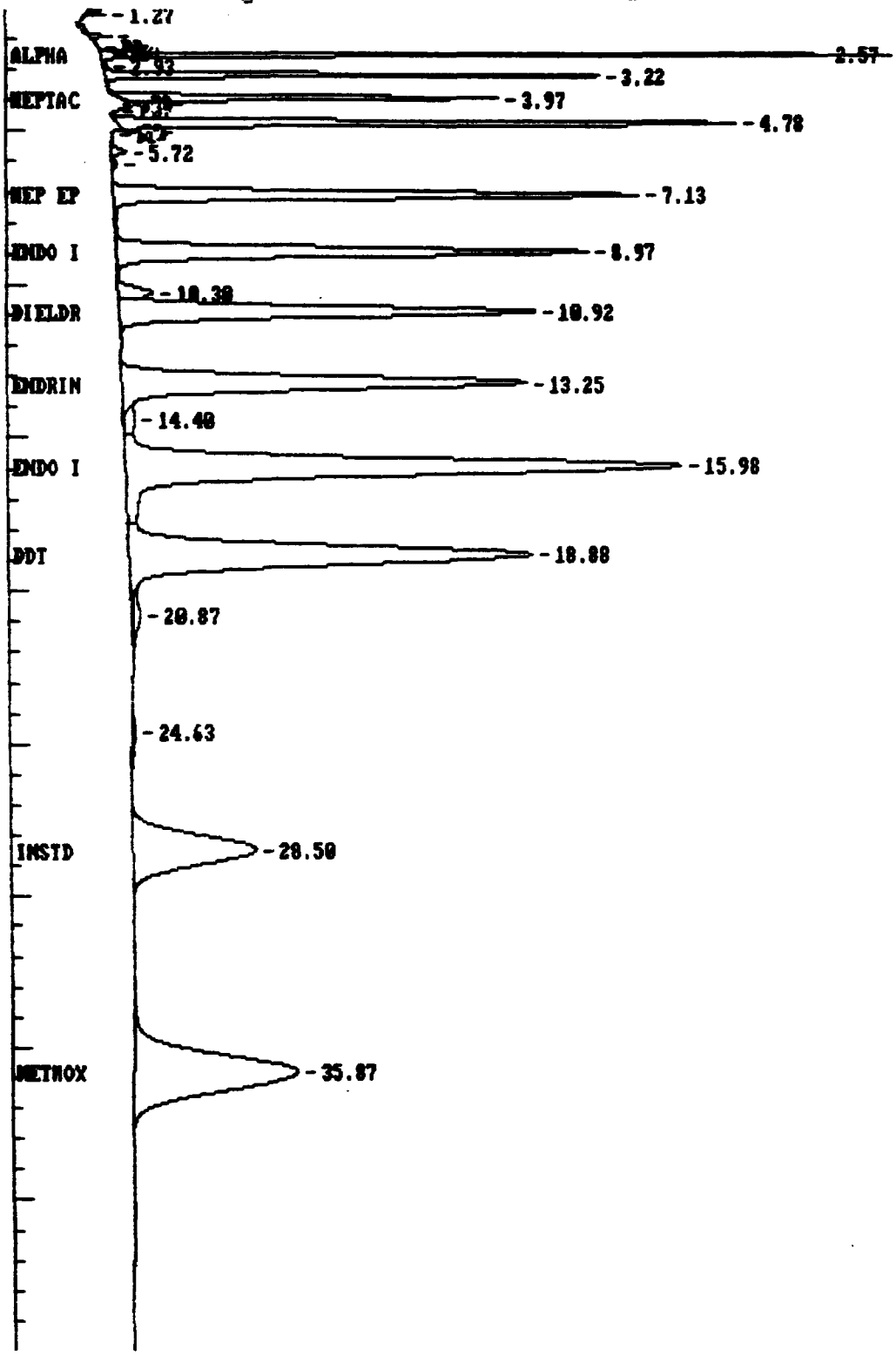
nternal Standard Amount: 1

ample Weight: 1.000000

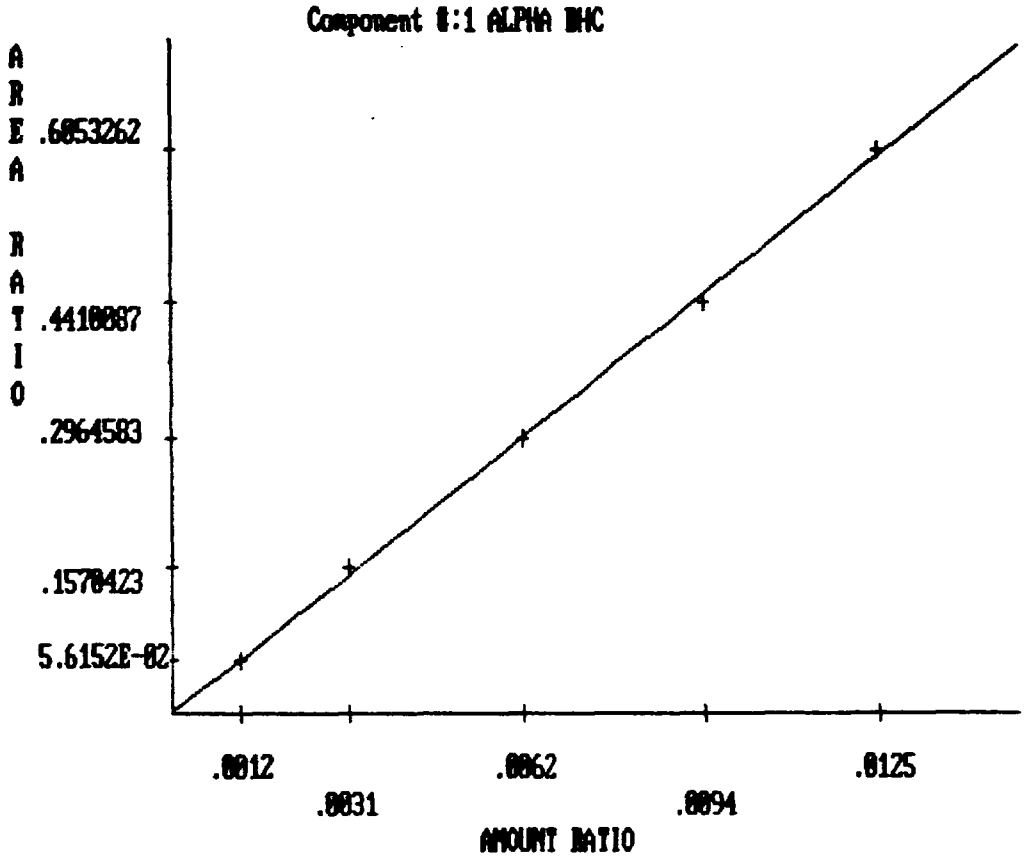
EAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	2.57	ALPHA BHC	0.0126	3.2770%	3235478	518531	6.2	3	3	20	0	3.9050E-09
5	3.22	LINDANE	0.0101	2.6245%	2451502	323219	7.6	2	5	20	0	4.1275E-09
6	3.97	HEPTACHLOR	0.0101	2.6202%	2234796	244259	9.1	1	6	20	0	4.5204E-09
7	4.78	ALDRIN	0.0202	5.2402%	4420852	405046	10.9	1	7	20	0	4.5700E-09
10	7.13	HEP EPOX	0.0252	6.5259%	5709358	343858	16.6	2	10	20	0	4.4068E-09
11	8.97	ENDO I	0.0302	7.8454%	6404681	308719	20.7	2	11	20	0	4.7227E-09
13	10.92	DIELDRIN	0.0303	7.8465%	6745297	271847	24.8	2	13	20	0	4.4849E-09
14	13.25	ENDRIN	0.0505	13.1026%	8047919	264891	30.4	3	14	20	0	6.2769E-09
16	15.98	ENDO II	0.0603	15.6493%	14275364	364348	39.2	2	16	20	0	4.2265E-09
17	18.88	DDT	0.0603	15.6520%	11791298	264272	44.6	3	17	20	0	5.1178E-09
20	28.50	INSTD MIREX	1.0000	0.0000%	5345016	80695	66.2	1	20	20	0	1.8709E-07
21	35.87	METHOXYCHLOR	0.0756	19.6164%	8782798	106761	82.3	1	21	20	0	8.6112E-09

TOTAL AMOUNT = 0.3855

Data File = P:1SF5.PTS Printed on 07-24-1990 at 08:26:59
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 120739 uv High Value: 653748 uv Scale factor: 1.0



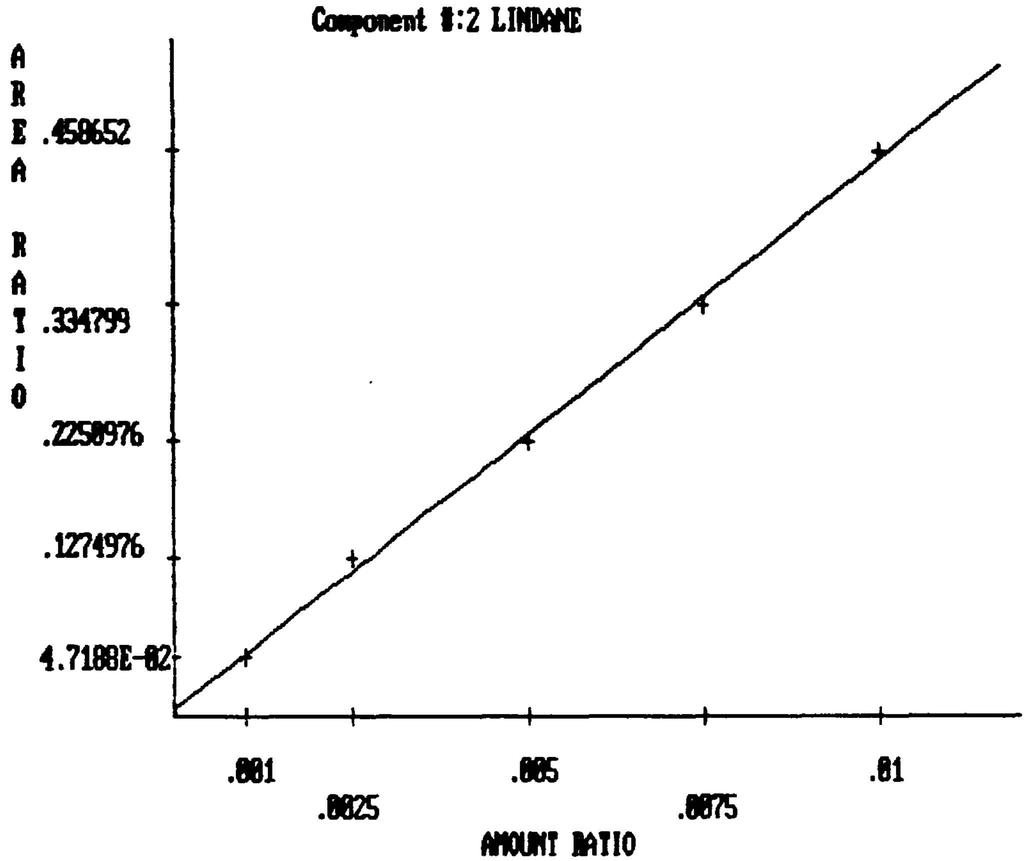
Method P:PESA
Sample PESTICIDES
Operator AK
Run date 07-24-1990 08:10:24 version: 103
Printed on 07-24-1990 AT 08:45:49
Straight Line fit



Component 1 = ALPHA BHC
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0012	322537	0.0012	0.0562
2	0.0031	792086	0.0031	0.1570
3	0.0062	1595105	0.0062	0.2965
4	0.0094	2390709	0.0094	0.4410
5	0.0125	3235478	0.0125	0.6053

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 4.7791E+01 * Amt ratio + 1.5124E-03
Amt ratio = 2.0924E-02 * Area ratio + -3.1646E-05
Correlation Coefficient = 0.9990



Component 2 = LINDANE
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0010	271046	0.0010	0.0472
2	0.0025	643069	0.0025	0.1275
3	0.0050	1211146	0.0050	0.2251
4	0.0075	1814946	0.0075	0.3348
5	0.0100	2451502	0.0100	0.4587

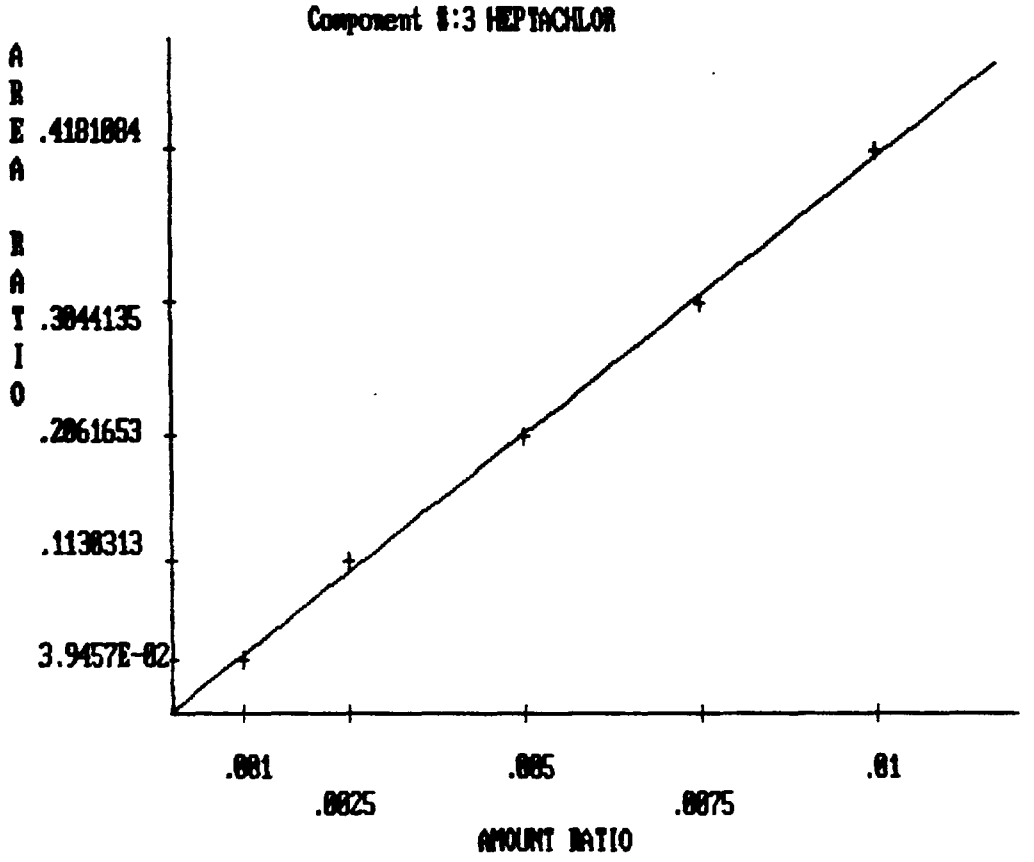
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 4.4730E+01 * Amt ratio + 6.0504E-03

Amt ratio = 2.2356E-02 * Area ratio + -1.3526E-04

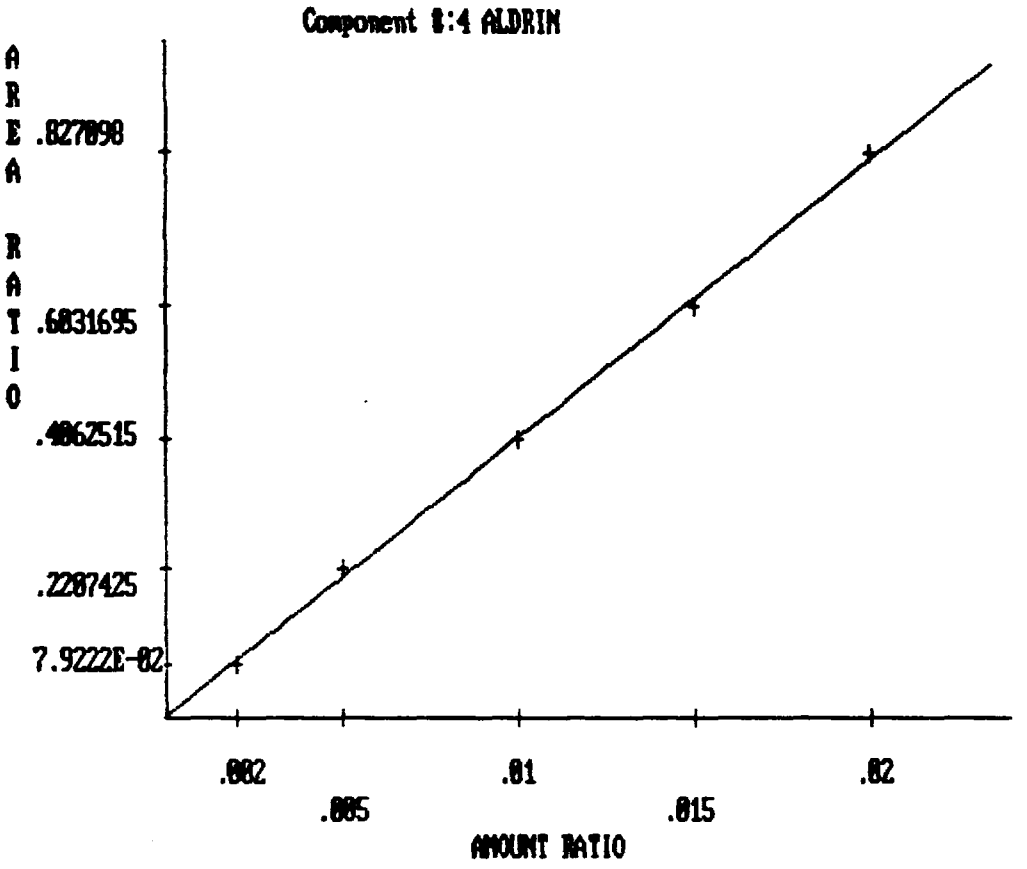
Correlation Coefficient = 0.9981



Component 3 = HEPTACHLOR
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0010	226640	0.0010	0.0395
2	0.0025	570104	0.0025	0.1130
3	0.0050	1109280	0.0050	0.2062
4	0.0075	1650226	0.0075	0.3044
5	0.0100	2234796	0.0100	0.4181

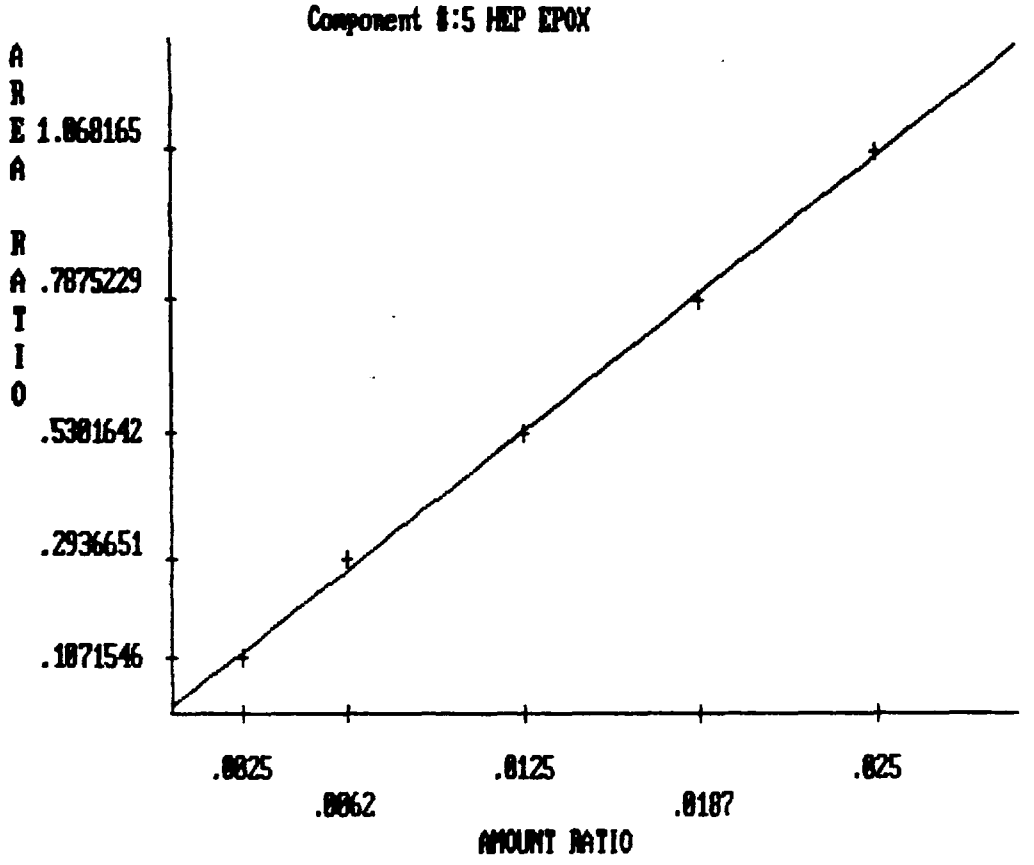
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 4.1181E+01 * Amt ratio + 2.0953E-03
Amt ratio = 2.4283E-02 * Area ratio + -5.0881E-05
Correlation Coefficient = 0.9984



Component 4 = ALDRIN
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0020	455049	0.0020	0.0792
2	0.0050	1113375	0.0050	0.2207
3	0.0100	2185851	0.0100	0.4063
4	0.0150	3269783	0.0150	0.6032
5	0.0200	4420852	0.0200	0.8271

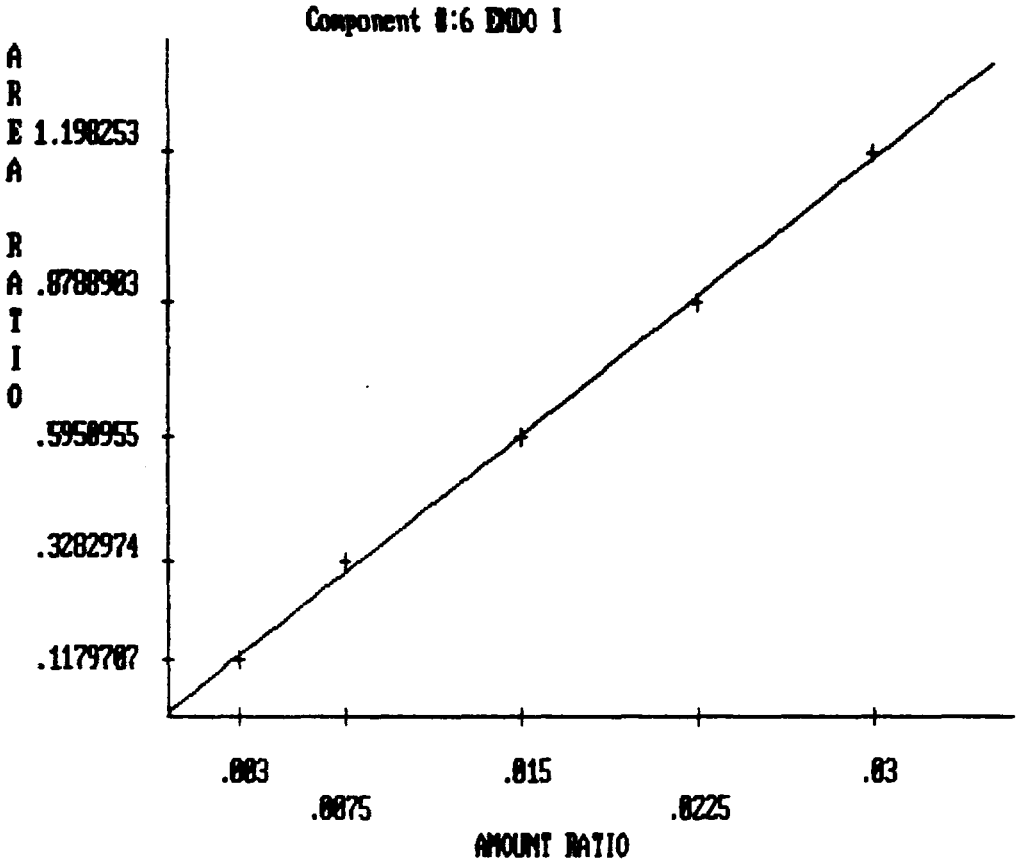
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 4.0782E+01 * Amt ratio + 3.1630E-03
Amt ratio = 2.4521E-02 * Area ratio + -7.7559E-05
Correlation Coefficient = 0.9987



Component 5 = HEP EPOX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0025	615489	0.0025	0.1072
2	0.0062	1481180	0.0062	0.2937
3	0.0125	2852568	0.0125	0.5302
4	0.0187	4269163	0.0187	0.7875
5	0.0250	5709358	0.0250	1.0682

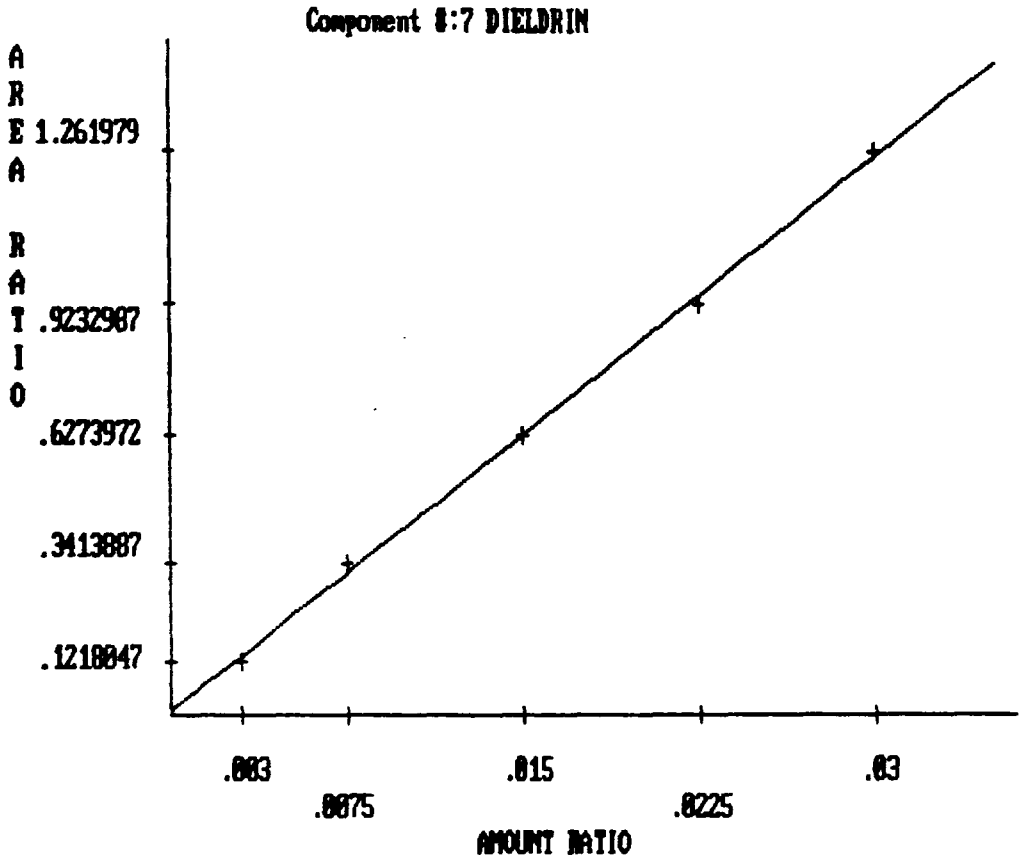
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 4.1940E+01 * Amt ratio + 1.2958E-02
Amt ratio = 2.3844E-02 * Area ratio + -3.0896E-04
Correlation Coefficient = 0.9988



Component 6 = ENDO I
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0030	677616	0.0030	0.1180
2	0.0075	1655857	0.0075	0.3283
3	0.0150	3201933	0.0150	0.5951
4	0.0225	4764466	0.0225	0.8789
5	0.0300	6404681	0.0300	1.1983

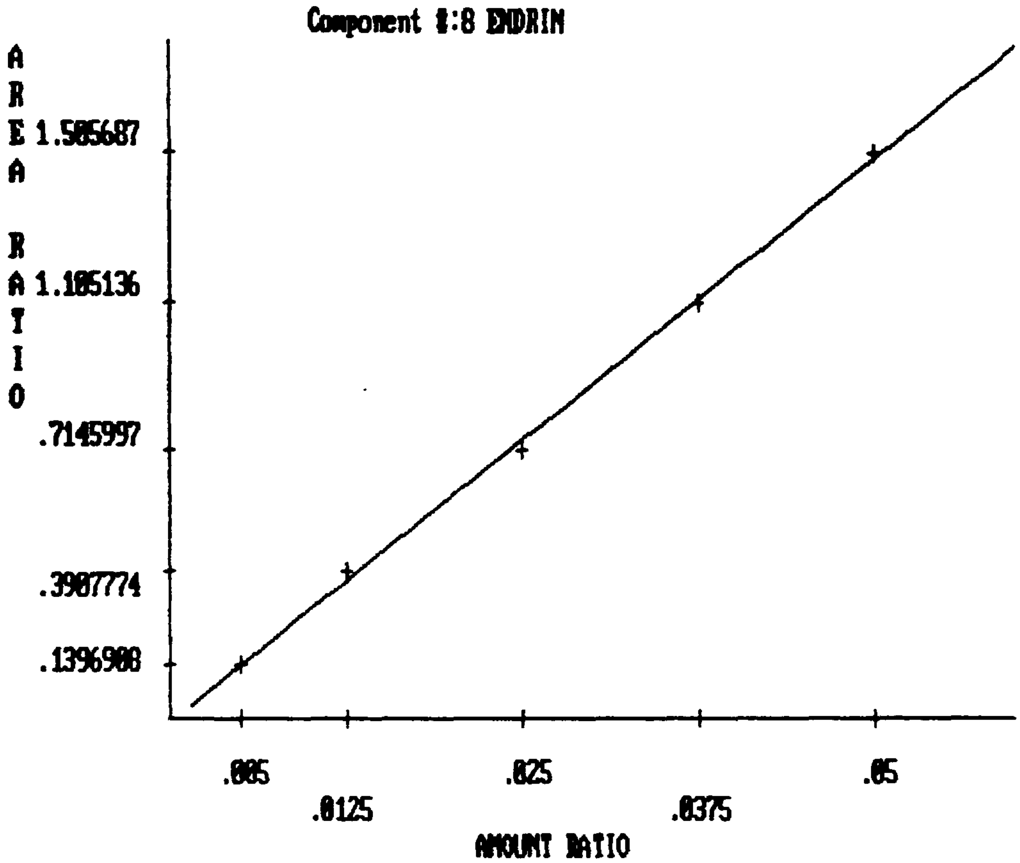
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.9226E+01 * Amt ratio + 1.1783E-02
Amt ratio = 2.5494E-02 * Area ratio + -3.0039E-04
Correlation Coefficient = 0.9987



Component 7 = DIELDRIN
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0030	699638	0.0030	0.1218
2	0.0075	1721887	0.0075	0.3414
3	0.0150	3375734	0.0150	0.6274
4	0.0225	5005204	0.0225	0.9233
5	0.0300	6745297	0.0300	1.2620

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 4.1415E+01 * Amt ratio + 9.0979E-03
Amt ratio = 2.4146E-02 * Area ratio + -2.1967E-04
Correlation Coefficient = 0.9987



Component 8 = ENDRIN

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0050	802375	0.0050	0.1397
2	0.0125	1970992	0.0125	0.3908
3	0.0250	3844930	0.0250	0.7146
4	0.0375	5990944	0.0375	1.1051
5	0.0500	8047919	0.0500	1.5057

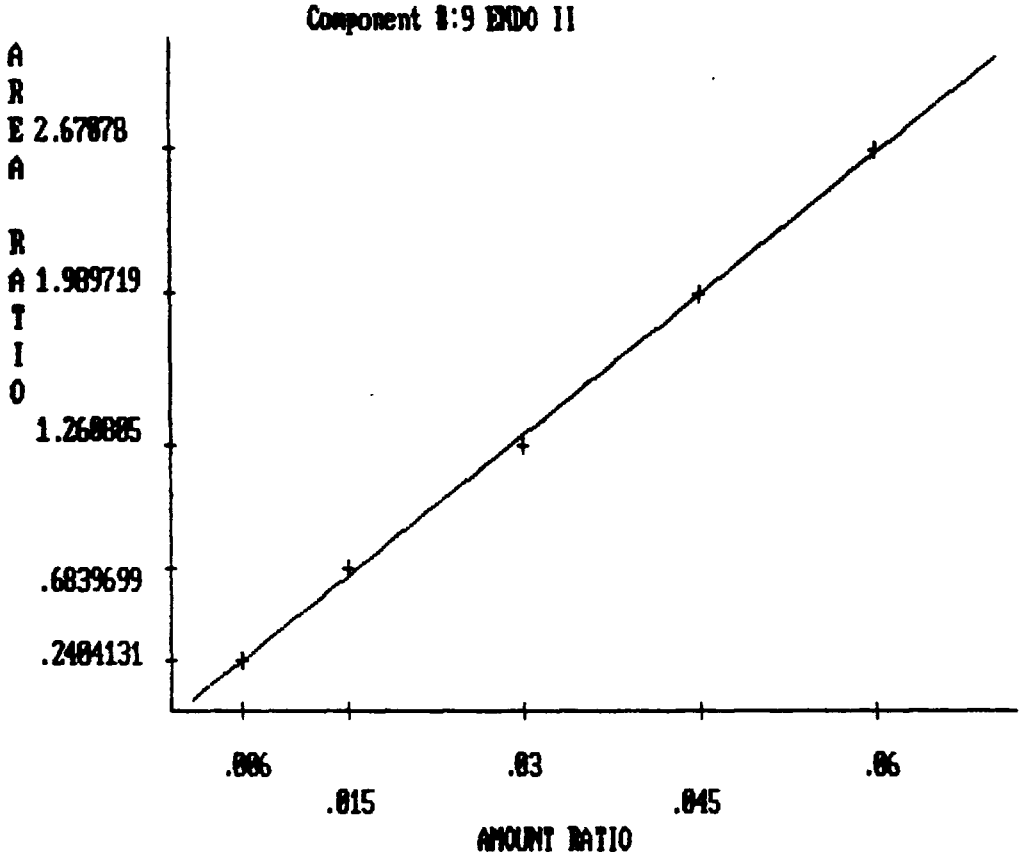
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.9960E+01 * Amt ratio + -7.7866E-03

Amt ratio = 3.3378E-02 * Area ratio + 2.5990E-04

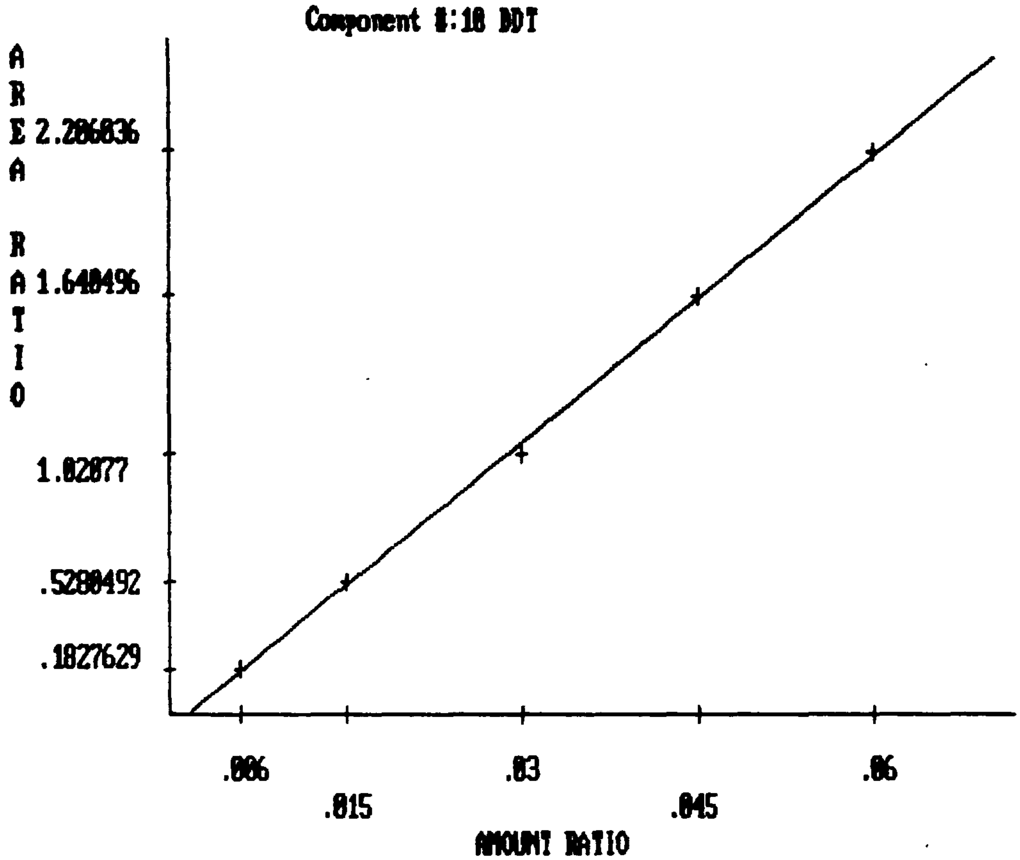
Correlation Coefficient = 0.9986



Component 9 = ENDO II
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0060	1380917	0.0060	0.2404
2	0.0150	3449788	0.0150	0.6840
3	0.0300	6783809	0.0300	1.2608
4	0.0450	10786270	0.0450	1.9897
5	0.0600	14275360	0.0600	2.6708

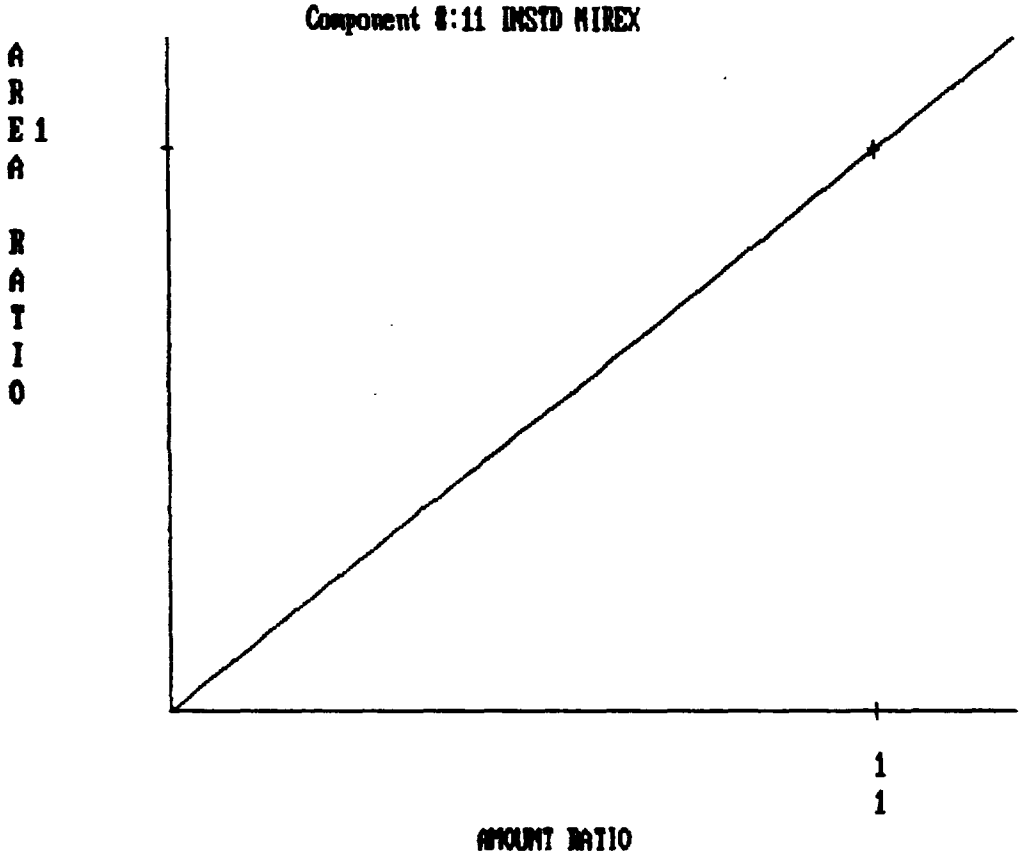
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 4.4676E+01 * Amt ratio + -2.4763E-02
Amt ratio = 2.2383E-02 * Area ratio + 5.5428E-04
Correlation Coefficient = 0.9988



Component 10 = DDT
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0060	1049778	0.0060	0.1828
2	0.0150	2663360	0.0150	0.5280
3	0.0300	5492290	0.0300	1.0208
4	0.0450	8893134	0.0450	1.6405
5	0.0600	11791300	0.0600	2.2060

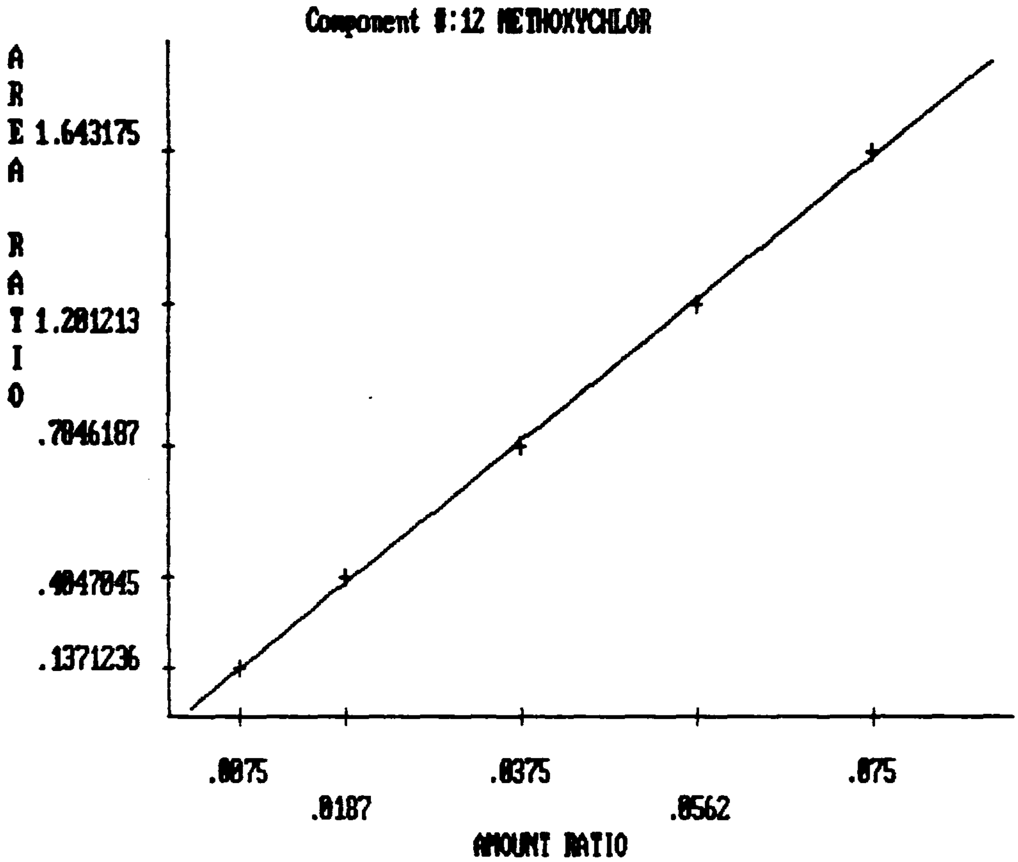
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.7413E+01 * Amt ratio + -5.1658E-02
Amt ratio = 2.6729E-02 * Area ratio + 1.3807E-03
Correlation Coefficient = 0.9988



Component 11 = INSTD MIREX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	1.0000	5743935	1.0000	1.0000
2	1.0000	5043772	1.0000	1.0000
3	1.0000	5380537	1.0000	1.0000
4	1.0000	5421002	1.0000	1.0000
5	1.0000	5345016	1.0000	1.0000

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



Component 12 = METHOXYCHLOR
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0075	787629	0.0075	0.1371
2	0.0187	2041237	0.0187	0.4047
3	0.0375	4221670	0.0375	0.7846
4	0.0562	6511778	0.0562	1.2012
5	0.0750	8782798	0.0750	1.6432

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.2074E+01 * Amt ratio + -2.6271E-02
Amt ratio = 4.5303E-02 * Area ratio + 1.1901E-03
Correlation Coefficient = 0.9993

NEW TIMED EVENTS FROM P:PESB

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

********** 07-23-1990 09:01:36 Version 4.1 **********

* Sample Name: PEST STD B LEVEL 1 Data File: P:1SF6 *
* Date: 07-17-1990 15:22:28 Method: P:1PESTB 07-23-1990 09:00:11 # 72 *
* Interface: 0 Cycle#: 6 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10.02 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

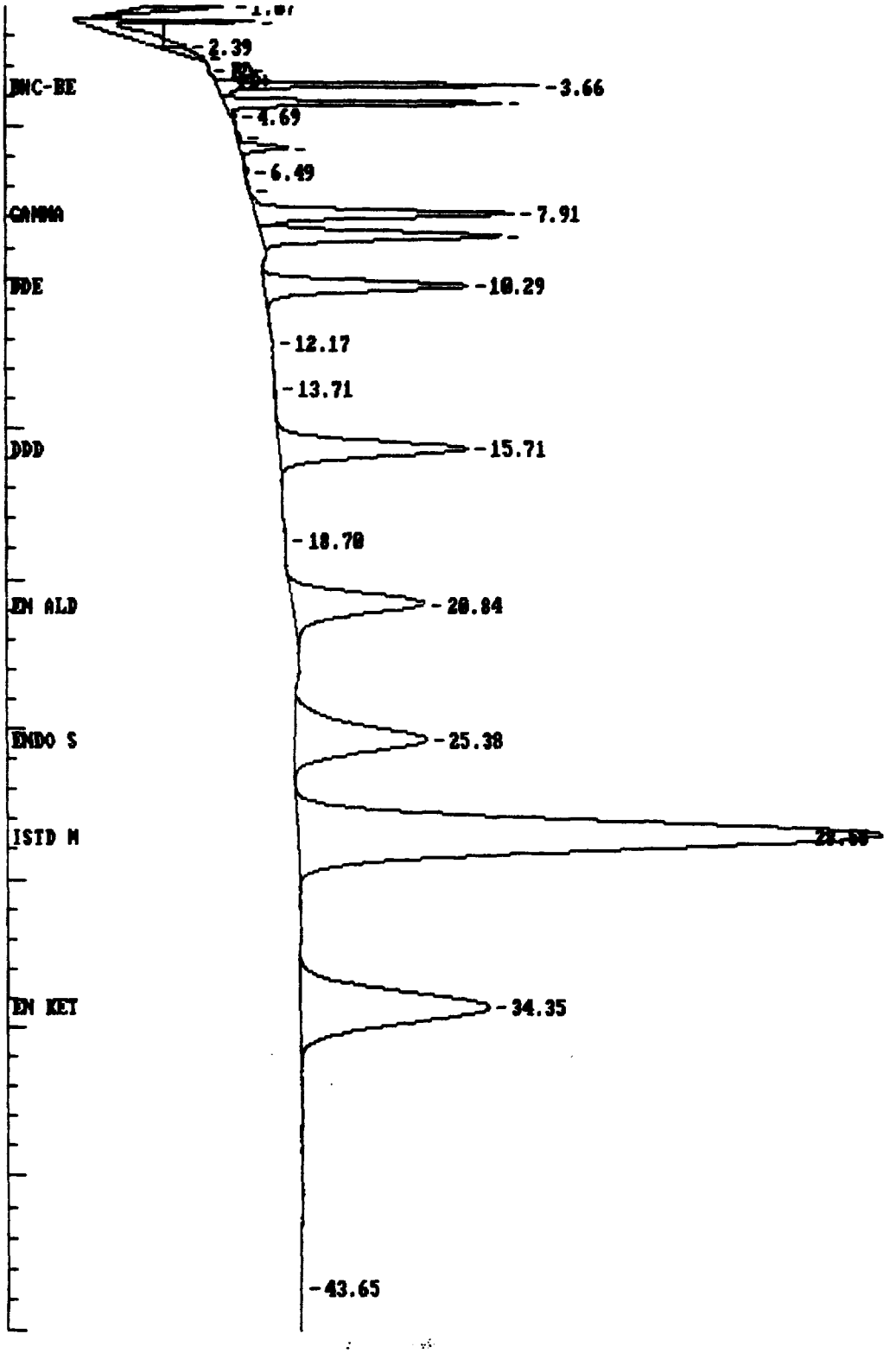
****

Starting Delay: 1.00 Ending retention time: 45.00
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
5	3.66	BHC-BETA	0.0017	5.3041%	402647	44498	9.0	2	5	21	0	4.1176E-09
6	4.26	BHC-DELTA	0.0017	5.4925%	398357	38185	10.4	3	6	21	0	4.3098E-09
12	7.91	GAMMA CHLORDANE	0.0017	5.3292%	669801	35877	18.7	2	12	21	0	2.4870E-09
13	8.65	ALPHA CHLORDANE	0.0017	5.3897%	683544	33248	20.6	2	13	21	0	2.4647E-09
14	10.29	DDE	0.0027	8.5042%	678605	28233	24.0	1	14	21	0	3.9172E-09
17	15.71	DDD	0.0042	13.3188%	938030	26177	35.8	1	17	21	0	4.4382E-09
19	20.84	EN ALDEHYDE	0.0043	13.7226%	886551	18401	48.2	1	19	21	0	4.8383E-09
20	25.38	ENDO SULFATE	0.0073	23.2744%	1114320	18253	61.0	1	20	21	0	6.5287E-09
21	28.55	ISTD MIREX	1.0000	0.0000%	5396755	81023	66.6	1	21	21	0	1.8530E-07
22	34.35	EN KETONE	0.0061	19.6645%	1958979	26087	75.1	1	22	21	0	3.1377E-09

TOTAL AMOUNT = 0.0313

Data File = P:1SF6.PTS Printed on 07-23-1990 at 09:02:14
Start time: 1.00 min. Stop time: 45.00 min. Offset: 0 mv.
Low Value: 119231 uv High Value: 230875 uv Scale factor: 1.0



NEW TIMED EVENTS FROM P:PESB

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

********** 07-23-1990 09:07:42 Version 4.1 **********

* Sample Name: PEST STD B LEVEL 2 Data File: P:1SF7 *
* Date: 07-17-1990 16:09:48 Method: P:1PESTB 07-23-1990 09:00:11 # 72 *
* Interface: 0 Cycle#: 7 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10.02 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

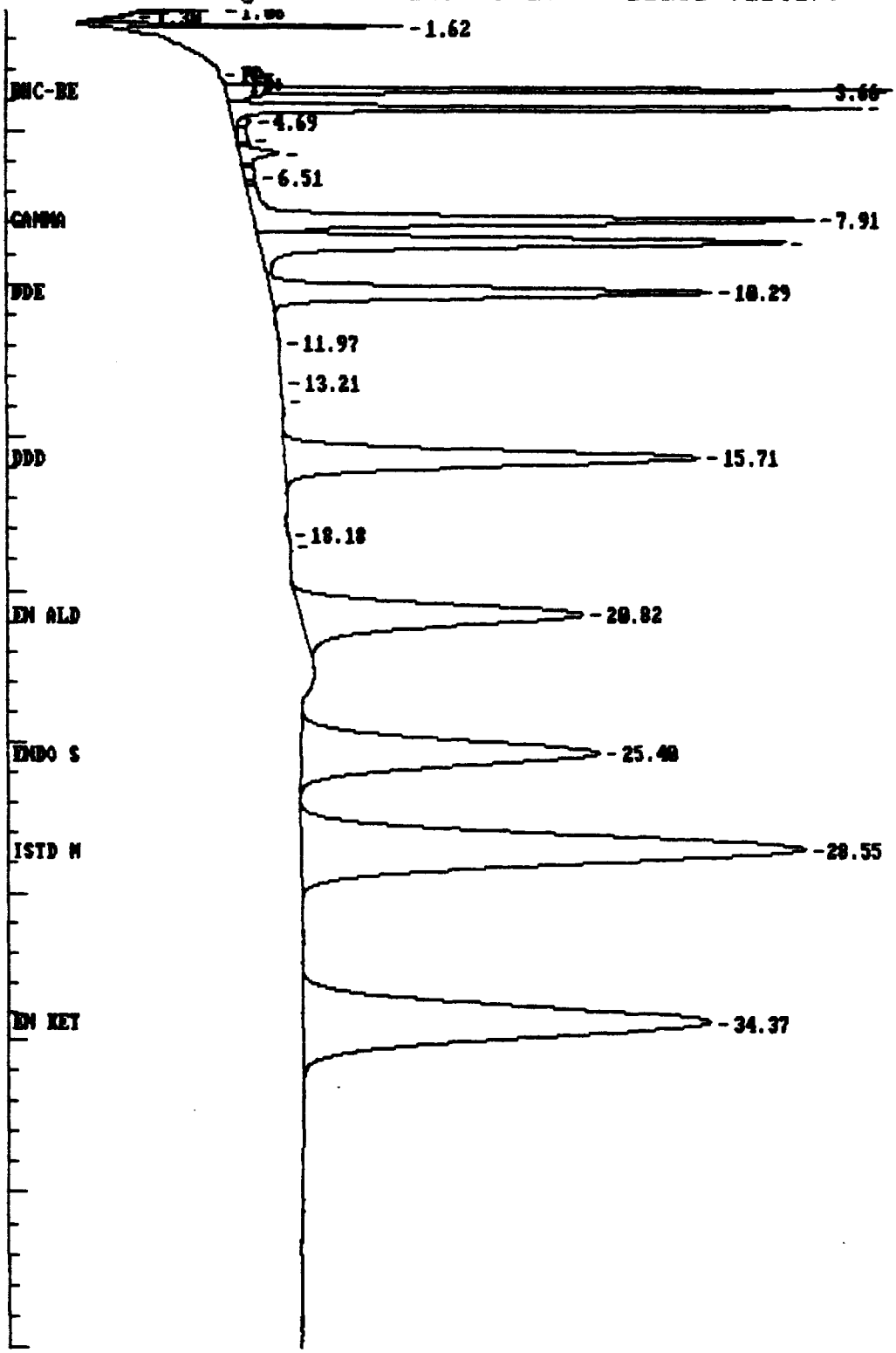
****

Starting Delay: 1.00 Ending retention time: 45.00
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
4	3.66	BHC-BETA	0.0065	6.7260%	950859	102775	9.3	2	4	21	0	6.8431E-09
5	4.26	BHC-DELTA	0.0050	5.1735%	1021641	97287	10.5	3	5	21	0	4.8988E-09
10	7.91	GAMMA CHLORDANE	0.0068	7.0260%	1712214	86134	19.9	2	10	21	0	3.9697E-09
11	8.65	ALPHA CHLORDANE	0.0067	6.9166%	1779208	80927	22.0	2	11	21	0	3.7607E-09
12	10.29	DDE	0.0077	7.9224%	1597294	67940	23.5	2	12	21	0	4.7982E-09
16	15.71	DDD	0.0126	13.0227%	2275009	63995	35.5	1	16	21	0	5.5376E-09
19	20.82	EN ALDEHYDE	0.0119	12.2563%	2127840	43618	48.8	1	19	21	0	5.5722E-09
20	25.40	ENDO SULFATE	0.0192	19.8981%	2644189	46055	57.4	1	20	21	0	7.2799E-09
21	28.55	ISTD MIREX	1.0000	0.0000%	5166598	77725	66.5	1	21	21	0	1.9355E-07
22	34.37	EN KETONE	0.0204	21.0584%	4751741	62867	75.6	1	22	21	0	4.2873E-09

TOTAL AMOUNT = 0.0967

Data File = F:1SF7.PTS Printed on 07-23-1990 at 09:08:35
Start time: 1.00 min. Stop time: 45.00 min. Offset: 0 mv.
Low Value: 116512 uv High Value: 241873 uv Scale factor: 1.0



NEW TIMED EVENTS FROM P:PESB

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

********** 07-23-1990 09:10:33 Version 4.1 **********

* Sample Name: PEST STD B LEVEL 3 Data File: P:1SF8 *
* Date: 07-17-1990 16:57:13 Method: P:1PESTB 07-23-1990 09:00:11 # 72 *
* Interface: 0 Cycle#: 8 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10.02 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

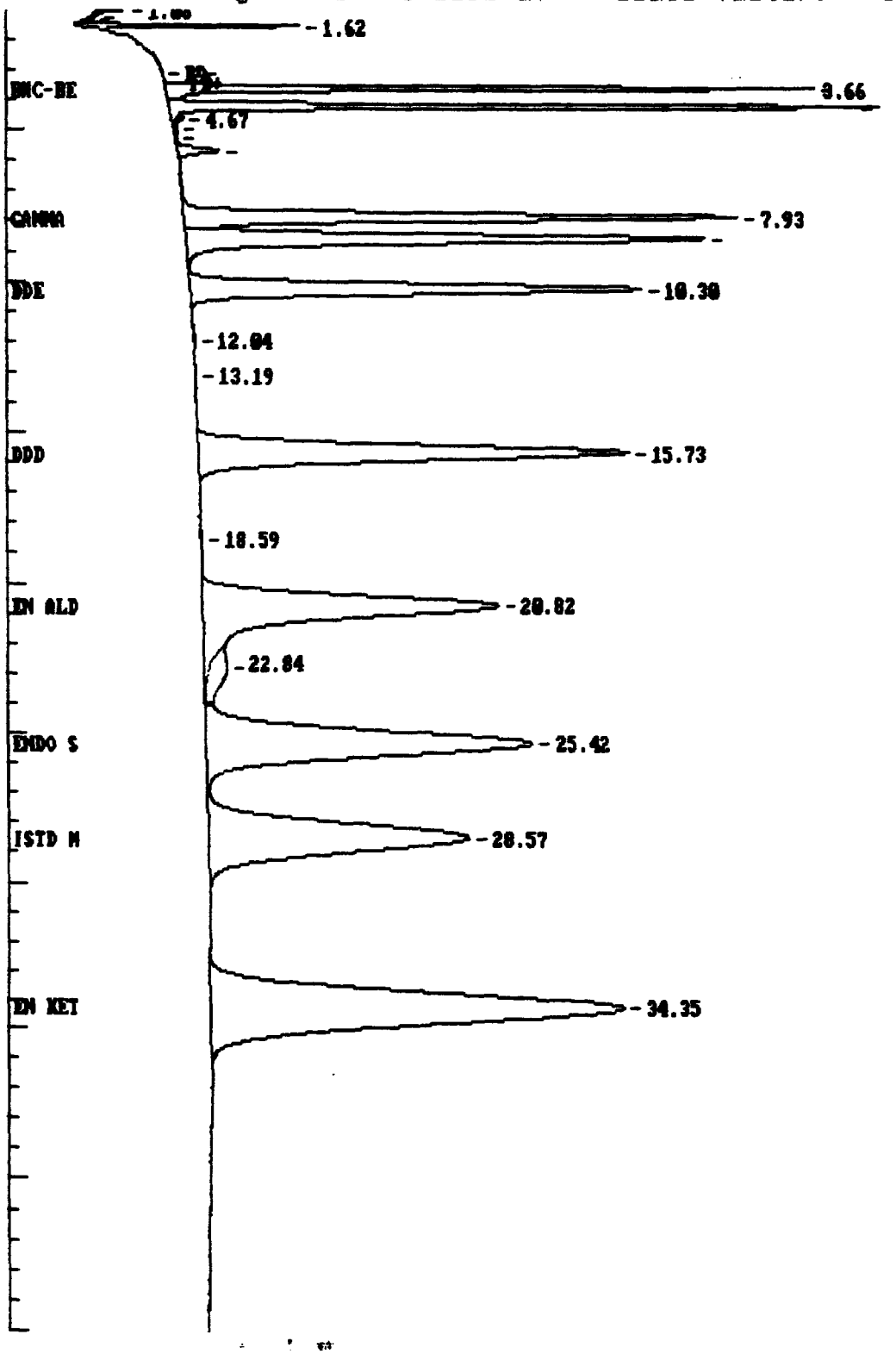
****

Starting Delay: 1.00 Ending retention time: 45.00
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
5	3.66	BHC-BETA	0.0136	6.6106%	1778645	191797	9.3	2	5	21	0	7.6284E-09
6	4.27	BHC-DELTA	0.0106	5.1624%	2115614	209901	10.1	3	6	21	0	5.0084E-09
11	7.93	GAMMA CHLORDANE	0.0132	6.4384%	3059304	163926	18.7	2	11	21	0	4.3195E-09
12	8.65	ALPHA CHLORDANE	0.0133	6.4857%	3274832	153511	21.3	2	12	21	0	4.0649E-09
13	10.30	DDE	0.0156	7.6042%	3108699	133596	23.3	2	13	21	0	5.0206E-09
16	15.73	DDD	0.0264	12.8686%	4541421	127360	35.7	1	16	21	0	5.8160E-09
18	20.82	EN ALDEHYDE	0.0272	13.2570%	4734637	87559	54.1	3	18	21	0	5.7470E-09
20	25.42	ENDO SULFATE	0.0425	20.7200%	5724812	96737	59.2	2	20	21	0	7.4287E-09
21	28.57	ISTD MIREX	1.0000	0.0000%	5179430	77199	67.1	2	21	21	0	1.9307E-07
22	34.35	EN KETONE	0.0428	20.8532%	9309859	122339	76.1	1	22	21	0	4.5974E-09

TOTAL AMOUNT = 0.2052

Data File = P:1SF8.PTS Printed on 07-23-1990 at 09:11:01
Start time: 1.00 min. Stop time: 45.00 min. Offset: 0 mv.
Low Value: 111265 uv High Value: 348856 uv Scale factor: 1.0



NEW TIMED EVENTS FROM P:PESB

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

********** 07-23-1990 09:35:40 Version 4.1 **********

* Sample Name: PEST STD B LEVEL 4 Data File: P:1SF9 *
* Date: 07-17-1990 17:44:34 Method: P:1PESTB 07-23-1990 09:00:11 # 72 *
* Interface: 0 Cycle#: 9 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10.02 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

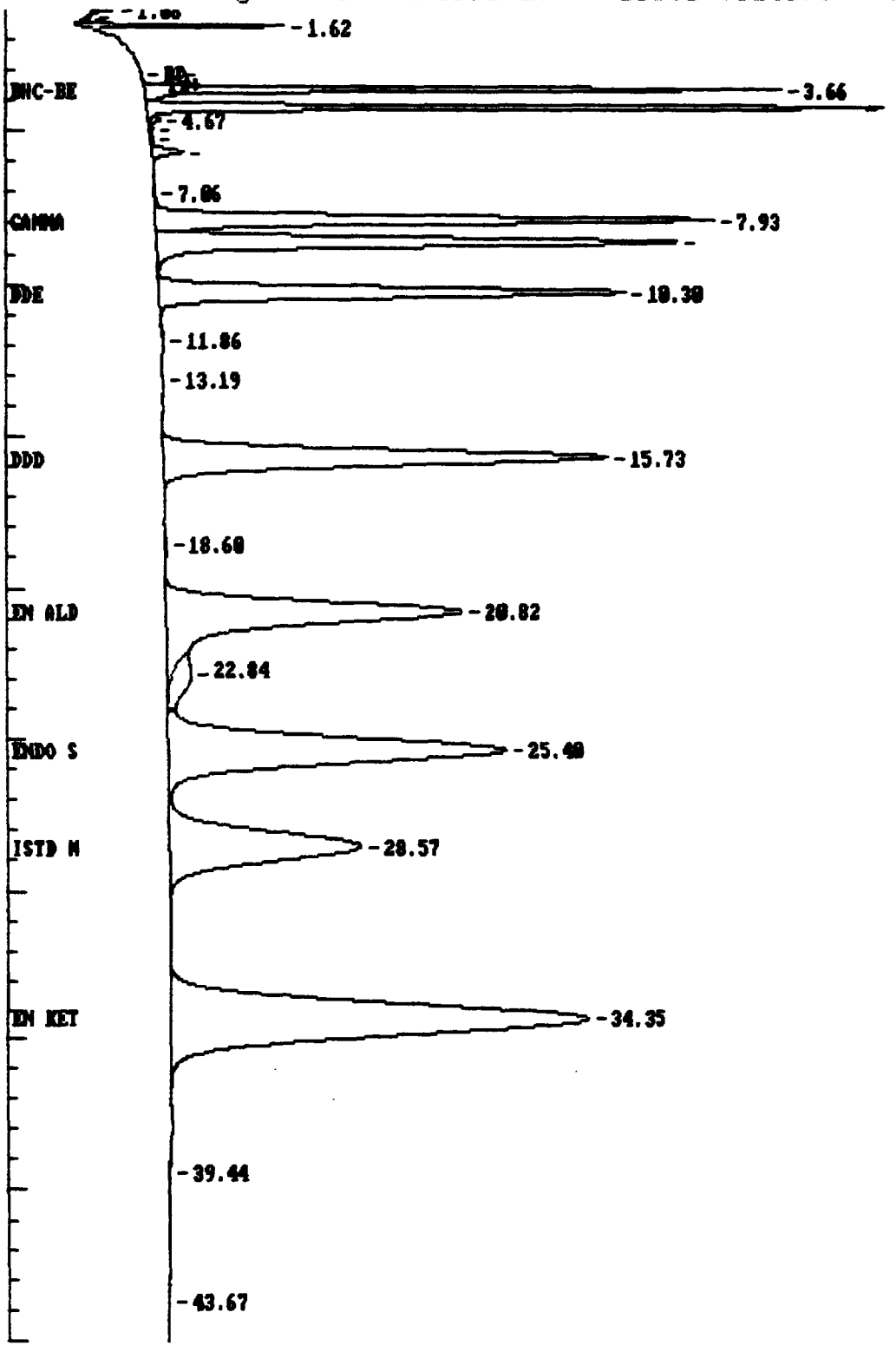
****

Starting Delay: 1.00 Ending retention time: 45.00
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
5	3.66	BHC-BETA	0.0187	6.5005%	2533441	271722	9.3	2	5	22	0	7.3703E-09
6	4.27	BHC-DELTA	0.0148	5.1570%	3134611	314649	10.0	3	6	22	0	4.7256E-09
12	7.93	GAMMA CHLORDANE	0.0185	6.4335%	4438086	238538	18.6	2	12	22	0	4.1639E-09
13	8.65	ALPHA CHLORDANE	0.0185	6.4529%	4747865	222330	21.4	2	13	22	0	3.9040E-09
14	10.30	DDE	0.0220	7.6668%	4614162	198773	23.2	2	14	22	0	4.7728E-09
17	15.73	DDD	0.0374	13.0178%	6760474	189517	35.7	1	17	22	0	5.5311E-09
19	20.82	EN ALDEHYDE	0.0376	13.0788%	6922037	126294	54.8	3	19	22	0	5.4273E-09
21	25.40	ENDO SULFATE	0.0598	20.8206%	8539784	144178	59.2	2	21	22	0	7.0032E-09
22	28.57	ISTD MIREX	1.0000	0.0000%	5524416	81739	67.6	2	22	22	0	1.8101E-07
23	34.35	EN KETONE	0.0600	20.8721%	13638333	178347	76.5	1	23	22	0	4.3960E-09

TOTAL AMOUNT = 0.2872

Data File = P:1SF9.PTS Printed on 07-23-1990 at 09:36:07
Start time: 1.00 min. Stop time: 45.00 min. Offset: 0 mv.
Low Value: 110769 uv High Value: 455873 uv Scale factor: 1.0



NEW TIMED EVENTS FROM P:PESB

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

********** 07-23-1990 09:38:02 Version 4.1 **********

* Sample Name: PEST STD B LEVEL 5 Data File: P:1SF10 *
* Date: 07-17-1990 18:31:54 Method: P:1PESTB 07-23-1990 09:00:11 # 72 *
* Interface: 0 Cycle#: 10 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10.02 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

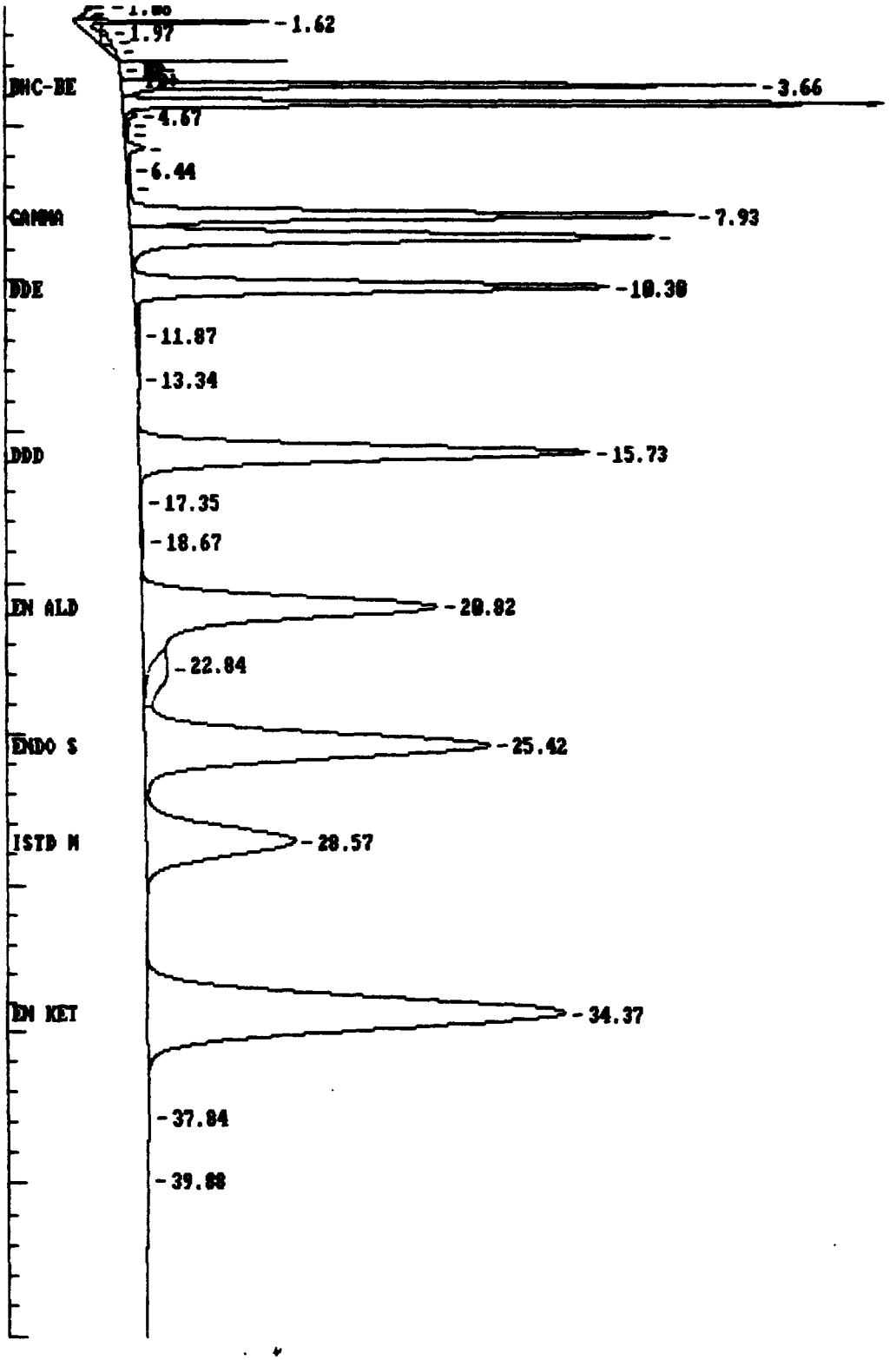
****

Starting Delay: 1.00 Ending retention time: 45.00
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

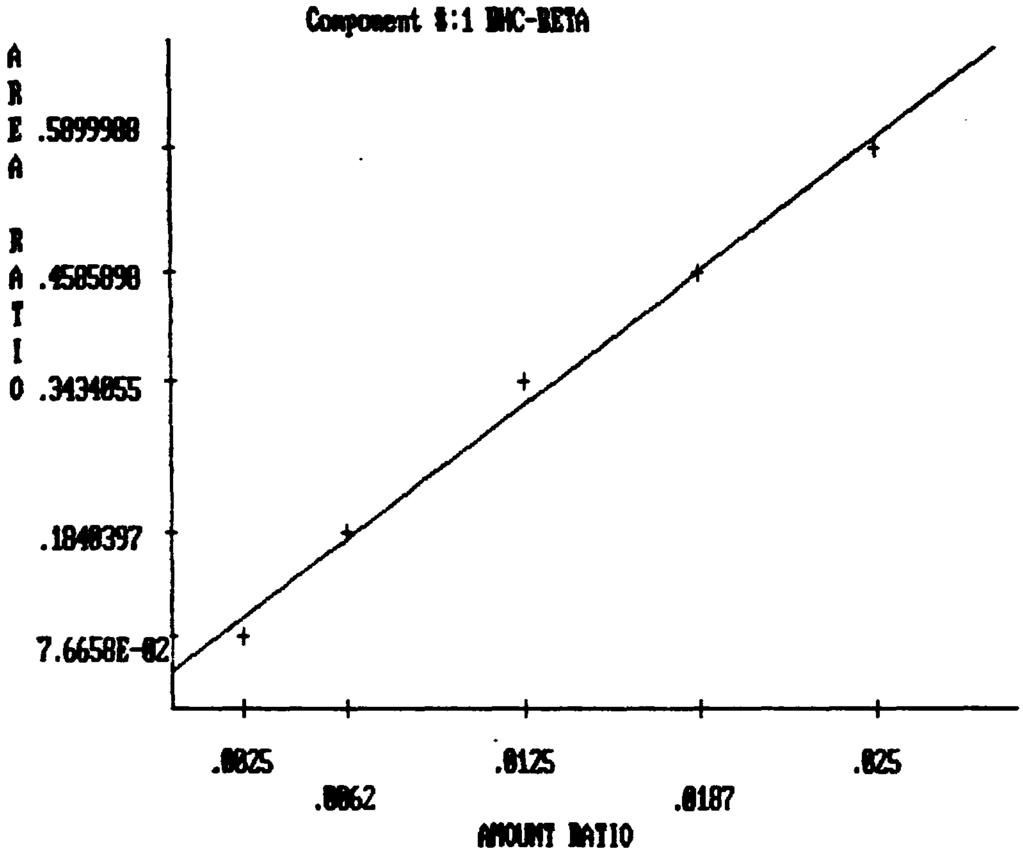
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
9	3.66	BHC-BETA	0.0245	6.4425%	3293403	352504	9.3	2	9	28	0	7.4375E-09
10	4.27	BHC-DELTA	0.0199	5.2259%	4231112	423642	10.0	3	10	28	0	4.6960E-09
17	7.93	GAMMA CHLORDANE	0.0247	6.5077%	5896747	313892	18.8	2	17	28	0	4.1960E-09
18	8.65	ALPHA CHLORDANE	0.0247	6.4903%	6288188	290798	21.6	2	18	28	0	3.9243E-09
19	10.30	DDE	0.0300	7.9029%	6303615	264632	23.8	3	19	28	0	4.7667E-09
22	15.73	DDD	0.0494	13.0016%	8954669	250178	35.8	3	22	28	0	5.5204E-09
25	20.82	EN ALDEHYDE	0.0491	12.9076%	9095845	163979	55.5	3	25	28	0	5.3954E-09
27	25.42	ENDO SULFATE	0.0791	20.8154%	11380866	191956	59.3	2	27	28	0	6.9539E-09
28	28.57	ISTD MIREX	1.0000	0.0000%	5582050	82530	67.6	2	28	28	0	1.7915E-07
29	34.37	EN KETONE	0.0787	20.7061%	17881694	232602	76.9	3	29	28	0	4.4026E-09

TOTAL AMOUNT = 0.3802

Data File = P:1SF10.PTS Printed on 07-23-1990 at 09:38:28
Start time: 1.00 min. Stop time: 45.00 min. Offset: 0 mv.
Low Value: 110454 uv High Value: 560509 uv Scale factor: 1.0



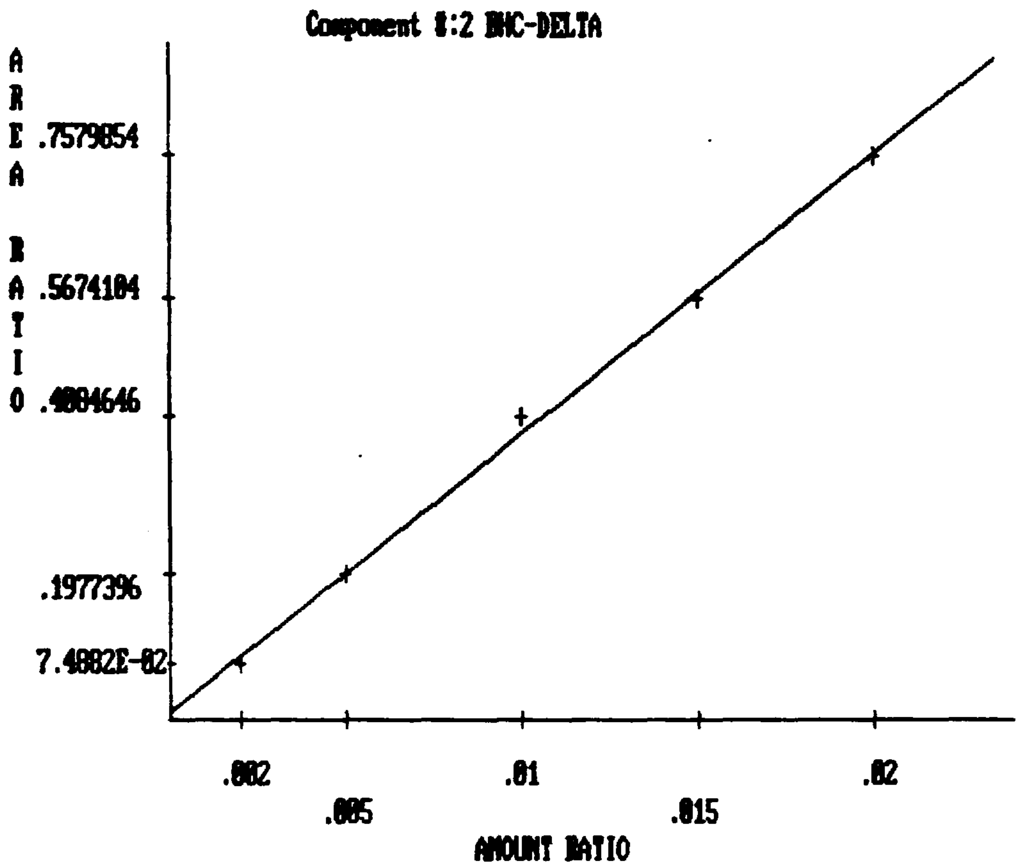
Method P:1PESTB
Sample PEST
Operator AK
Run date 07-23-1990 08:19:36 version: 68
Printed on 07-23-1990 AT 08:20:11
Straight Line fit



Component 1 = BHC-BETA
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0025	413709	0.0025	0.0767
2	0.0062	950859	0.0062	0.1840
3	0.0125	1778645	0.0125	0.3434
4	0.0187	2533441	0.0187	0.4586
5	0.0250	3293403	0.0250	0.5900

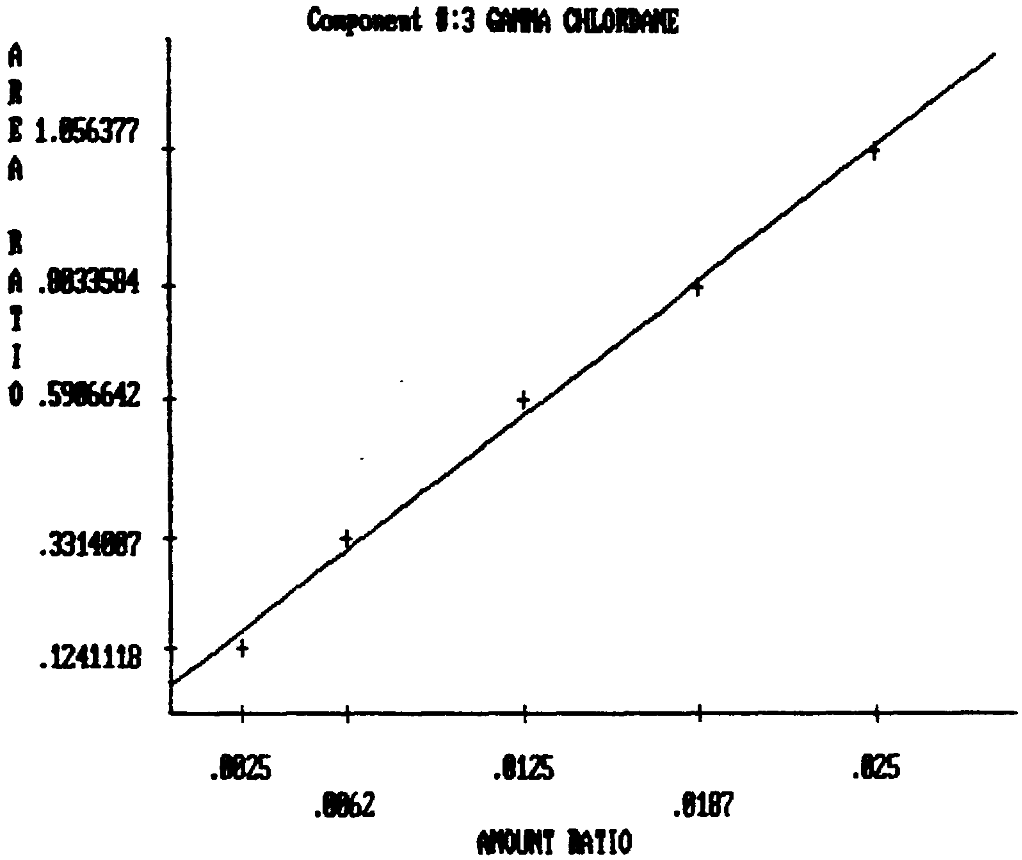
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.2504E+01 * Amt ratio + 3.8439E-02
Amt ratio = 4.4437E-02 * Area ratio + -1.7081E-03
Correlation Coefficient = 0.9938



Component 2 = BHC-DELTA
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0020	404123	0.0020	0.0749
2	0.0050	1021641	0.0050	0.1977
3	0.0100	2115614	0.0100	0.4085
4	0.0150	3134611	0.0150	0.5674
5	0.0200	4231112	0.0200	0.7580

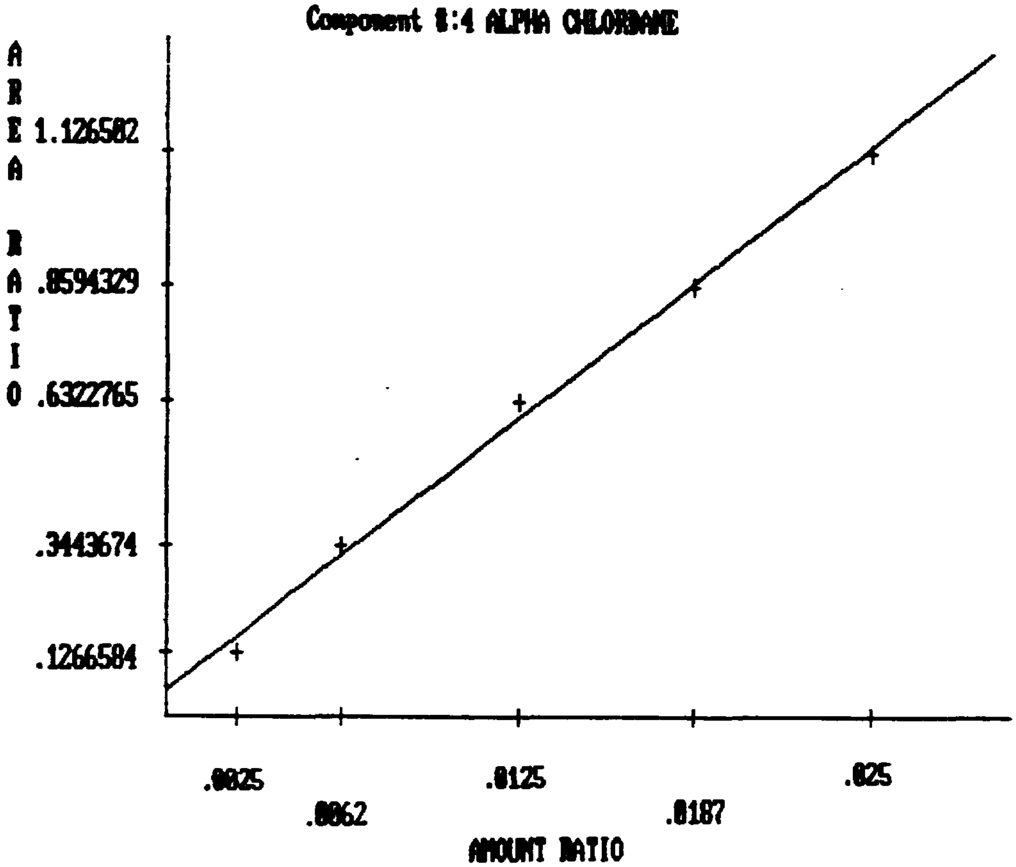
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.7648E+01 * Amt ratio + 9.7573E-03
Amt ratio = 2.6562E-02 * Area ratio + -2.5917E-04
Correlation Coefficient = 0.9978



Component 3 = GAMMA CHLORDANE
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0025	669801	0.0025	0.1241
2	0.0062	1712214	0.0062	0.3314
3	0.0125	3059304	0.0125	0.5907
4	0.0187	4438086	0.0187	0.8034
5	0.0250	5896747	0.0250	1.0564

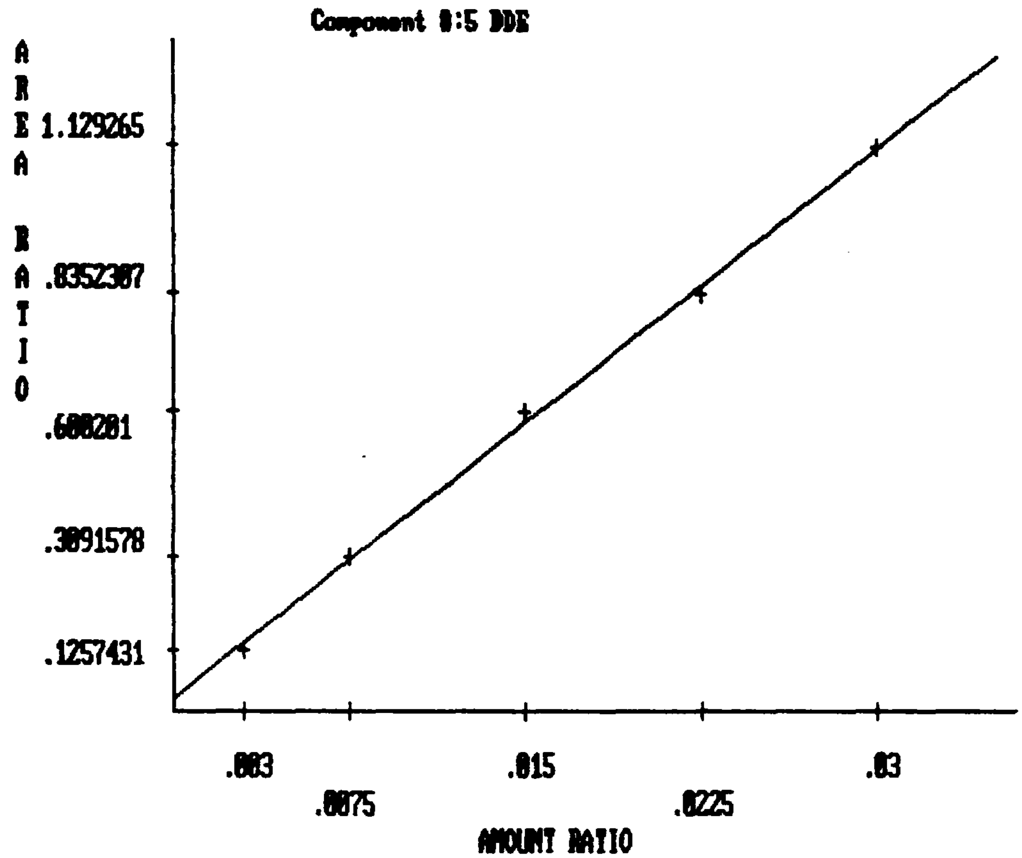
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 4.0398E+01 * Amt ratio + 5.6816E-02
Amt ratio = 2.4754E-02 * Area ratio + -1.4064E-03
Correlation Coefficient = 0.9950



Component 4 = ALPHA CHLORDANE
INTERNAL STANDARD CALIBRATION

.EVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0025	683544	0.0025	0.1267
2	0.0062	1779208	0.0062	0.3444
3	0.0125	3274832	0.0125	0.6323
4	0.0187	4747865	0.0187	0.8594
5	0.0250	6288188	0.0250	1.1265

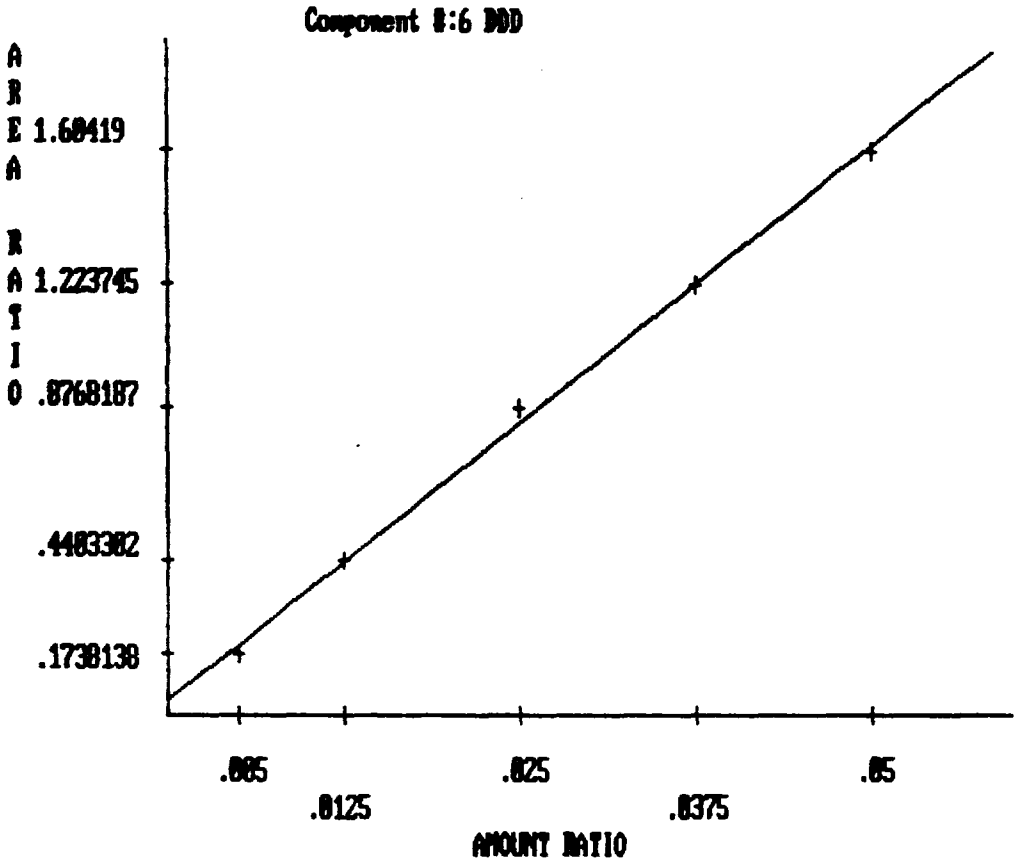
Y = SLOPE * X + INTERCEPT
'DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 4.3486E+01 * Amt ratio + 5.3396E-02
ımt ratio = 2.2996E-02 * Area ratio + -1.2279E-03
Correlation Coefficient = 0.9949



Component 5 = DDE
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0030	678605	0.0030	0.1257
2	0.0075	1597294	0.0075	0.3092
3	0.0150	3108699	0.0150	0.6002
4	0.0225	4614162	0.0225	0.8352
5	0.0300	6303615	0.0300	1.1293

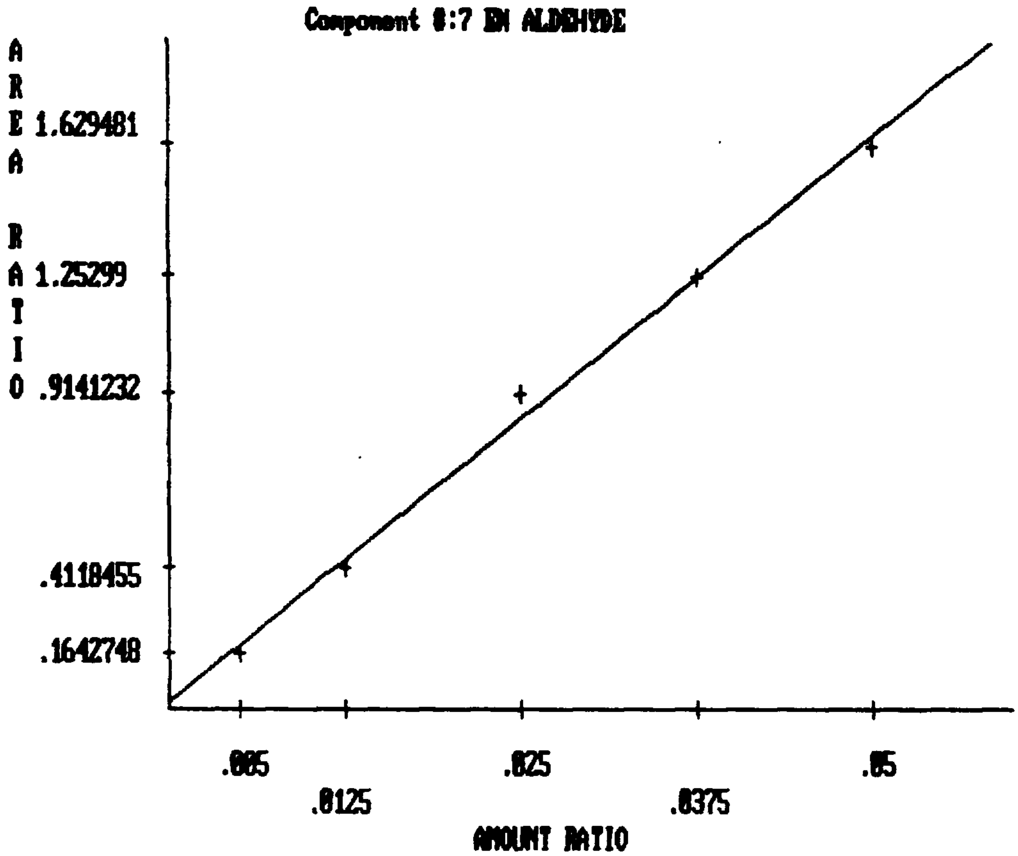
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.6639E+01 * Amt ratio + 2.8347E-02
Amt ratio = 2.7293E-02 * Area ratio + -7.7368E-04
Correlation Coefficient = 0.9985



Component 6 = DDD
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0050	938030	0.0050	0.1738
2	0.0125	2275009	0.0125	0.4403
3	0.0250	4541421	0.0250	0.8768
4	0.0375	6760474	0.0375	1.2237
5	0.0500	8954669	0.0500	1.6042

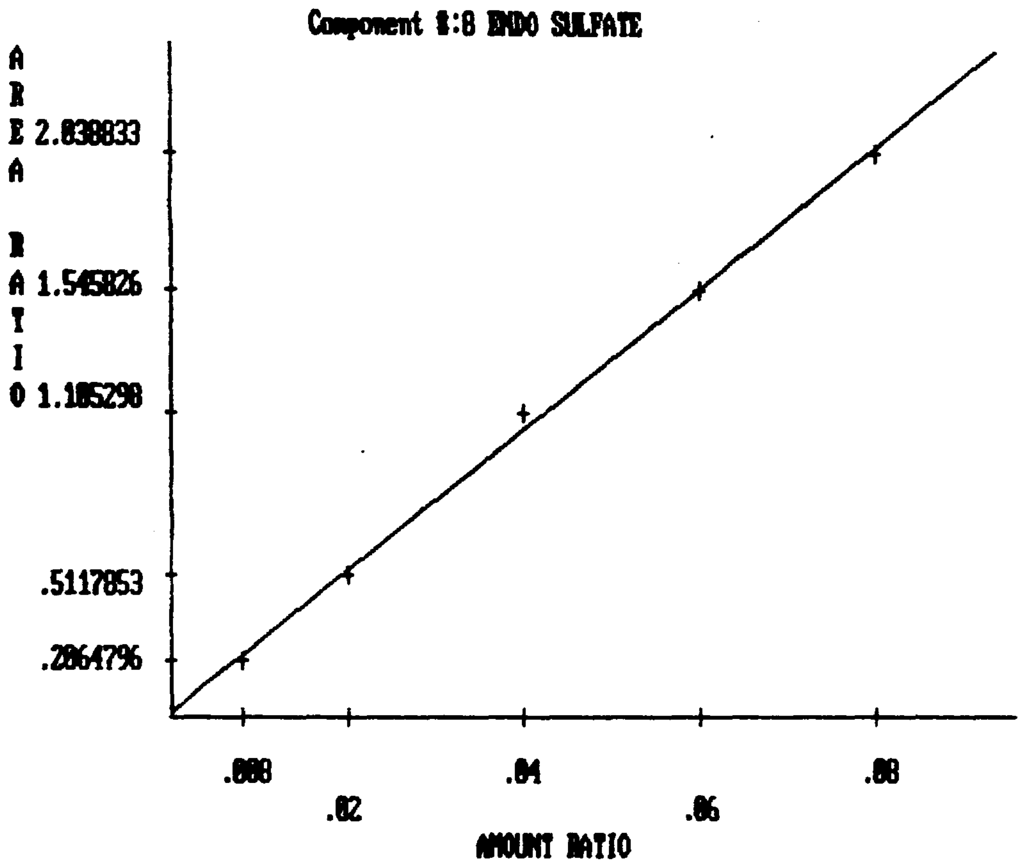
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.1596E+01 * Amt ratio + 4.2272E-02
Amt ratio = 3.1649E-02 * Area ratio + -1.3379E-03
Correlation Coefficient = 0.9977



Component 7 = EN ALDEHYDE
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0050	886551	0.0050	0.1643
2	0.0125	2127840	0.0125	0.4118
3	0.0250	4734637	0.0250	0.9141
4	0.0375	6922037	0.0375	1.2530
5	0.0500	9095845	0.0500	1.6295

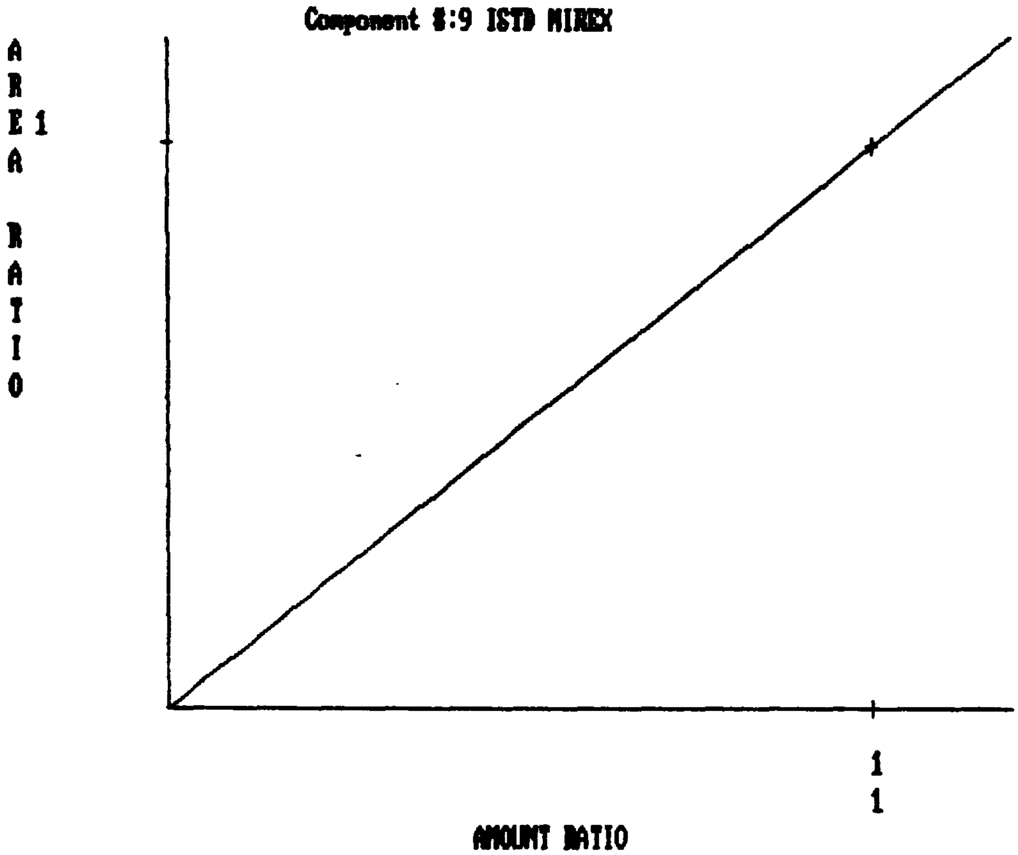
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.2715E+01 * Amt ratio + 2.3945E-02
Amt ratio = 3.0567E-02 * Area ratio + -7.3193E-04
Correlation Coefficient = 0.9950



Component 8 = ENDO SULFATE
INTERNAL STANDARD CALIBRATION

EVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0080	1114320	0.0080	0.2065
2	0.0200	2644189	0.0200	0.5118
3	0.0400	5724812	0.0400	1.1053
4	0.0600	8539784	0.0600	1.5458
5	0.0800	11380870	0.0800	2.0388

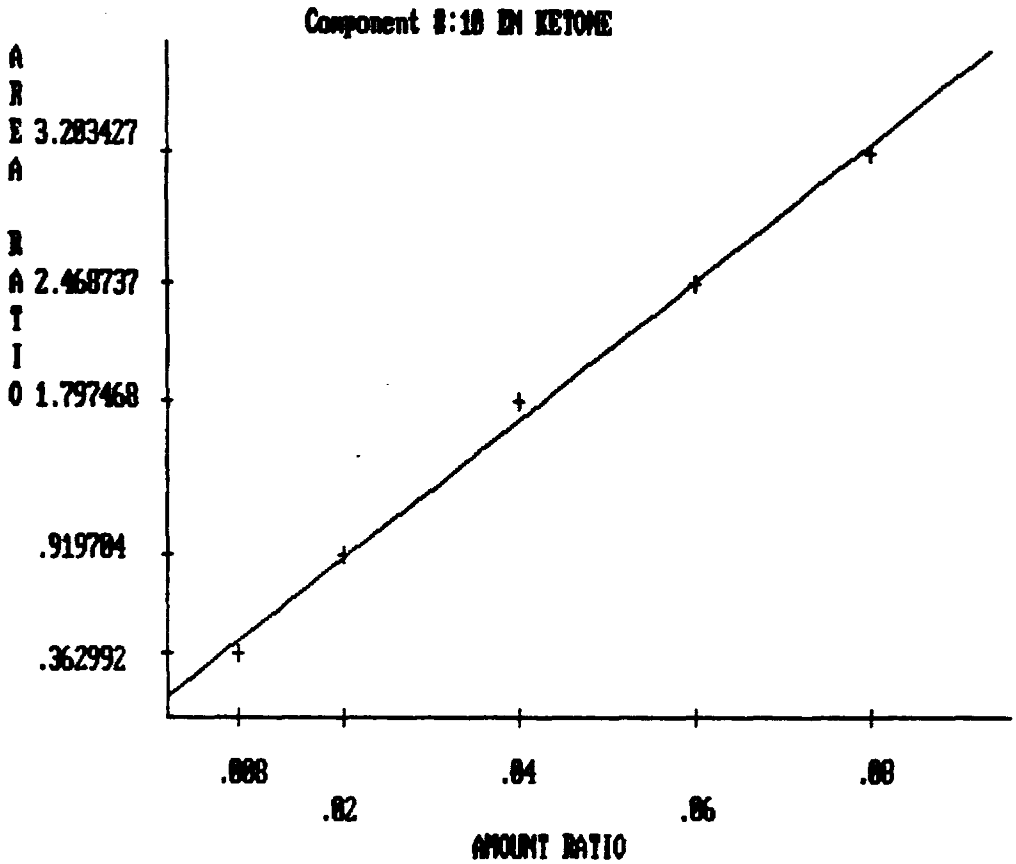
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.5496E+01 * Amt ratio + 2.0990E-02
mt ratio = 3.9221E-02 * Area ratio + -8.2326E-04
Correlation Coefficient = 0.9976



Component 9 = ISTD MIREX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	1.0000	5396755	1.0000	1.0000
2	1.0000	5166598	1.0000	1.0000
3	1.0000	5179430	1.0000	1.0000
4	1.0000	5524416	1.0000	1.0000
5	1.0000	5582050	1.0000	1.0000

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



Component 10 = EN KETONE
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0080	1958979	0.0080	0.3630
2	0.0200	4751741	0.0200	0.9197
3	0.0400	9309859	0.0400	1.7975
4	0.0600	13638330	0.0600	2.4687
5	0.0800	17881690	0.0800	3.2034

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.9135E+01 * Amt ratio + 1.2244E-01
Amt ratio = 2.5552E-02 * Area ratio + -3.1286E-03
Correlation Coefficient = 0.9962

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

********** 07-24-1990 10:28:50 Version 4.1 **********

Sample Name: PEST STD A LEVEL 3 Data File: P:2SF4 *

Date: 07-17-1990 14:07:46 Method: P:2PESTA 07-23-1990 09:52:51 # 88 *

Interface: 0 Cycle#: 4 Operator AK Channel#: 1 Vial#: N.A. *

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

****

Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *

Solvent Description: ULTRA HIGH PURITY NITROGEN *

Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *

Detector 0: ECD QUANT Detector 1: *

Misc. Information: *

****

tarting Delay: 1.00 Ending retention time: 45.00

rea reject: 0 One sample per 1.002 sec.

mount injected: 1.00 Dilution factor: 1.00

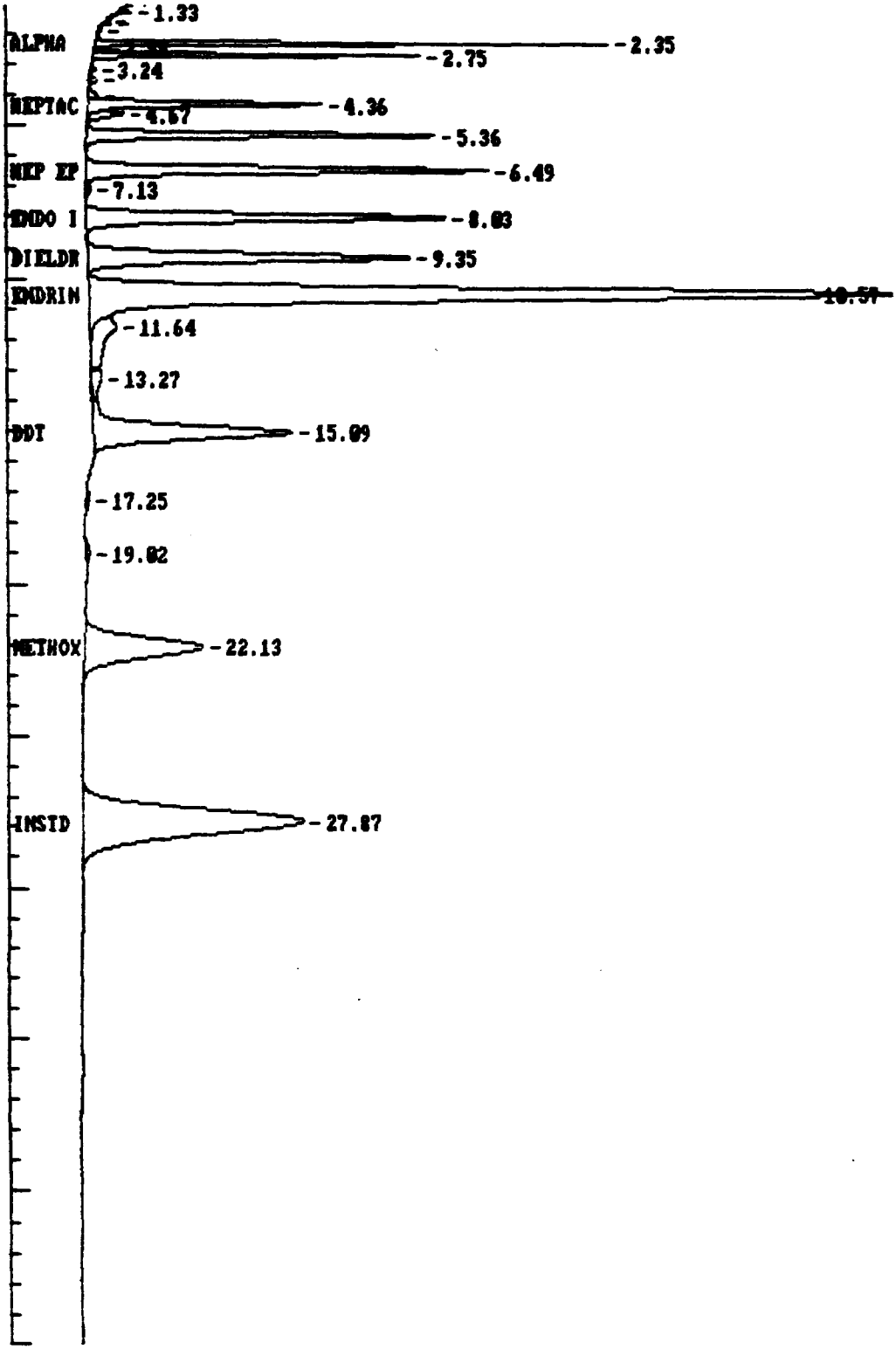
nternal Standard Amount: 1

ample Weight: 1.000000

EAK 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
5	2.35	ALPHA BHC	0.0062	3.2427%	470018	90065	5.2	3	5	25	0	1.3191E-08
7	2.75	LINDANE	0.0050	2.6151%	343275	57298	6.0	2	7	25	0	1.4566E-08
11	4.36	HEPTACHLOR	0.0050	2.6151%	441649	40770	10.8	3	11	25	0	1.1321E-08
13	5.36	ALDRIN	0.0100	5.2301%	698993	60950	11.5	2	13	25	0	1.4306E-08
14	6.49	HEP EPOX	0.0125	6.5377%	1019234	70566	14.4	3	14	25	0	1.2264E-08
16	8.03	ENDO I	0.0150	7.8452%	1087278	63026	17.3	2	16	25	0	1.3796E-08
17	9.35	DIELDRIN	0.0150	7.8452%	1130683	56414	20.0	2	17	25	0	1.3266E-08
18	10.57	ENDRIN + ENDO II	0.0550	28.7657%	4044312	141271	28.6	3	18	25	0	1.3599E-08
21	15.09	DDT	0.0300	15.6904%	1108949	35026	31.7	2	21	25	0	2.7053E-08
24	22.13	METHOXYCHLOR	0.0375	19.6130%	951083	20789	45.7	1	24	25	0	3.9429E-08
25	27.87	INSTD MIREX	1.0000	0.0000%	2375085	38794	61.2	1	25	25	0	4.2104E-07

TOTAL AMOUNT = 0.1912

ata File = P:2SF4.PTS Printed on 07-24-1990 at 10:29:31
tart time: 1.00 min. Stop time: 45.00 min. Offset: 0 mv.
ow Value: 20079 uv High Value: 163163 uv Scale factor: 1.0



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

********** 07-24-1990 13:58:50 Version 4.1 **********

Sample Name: PEST STD B LEVEL 3 Data File: P:2SF9

Date: 07-17-1990 17:44:33 Method: P:2PESTB 07-23-1990 09:51:14 # 65

Interface: 0 Cycle#: 9 Operator AK Channel#: 1 Vial#: N.A.

Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000

Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE

Solvent Description: ULTRA HIGH PURITY NITROGEN

Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C

Detector 0: ECD QUANT Detector 1:

Misc. Information:

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 1.00

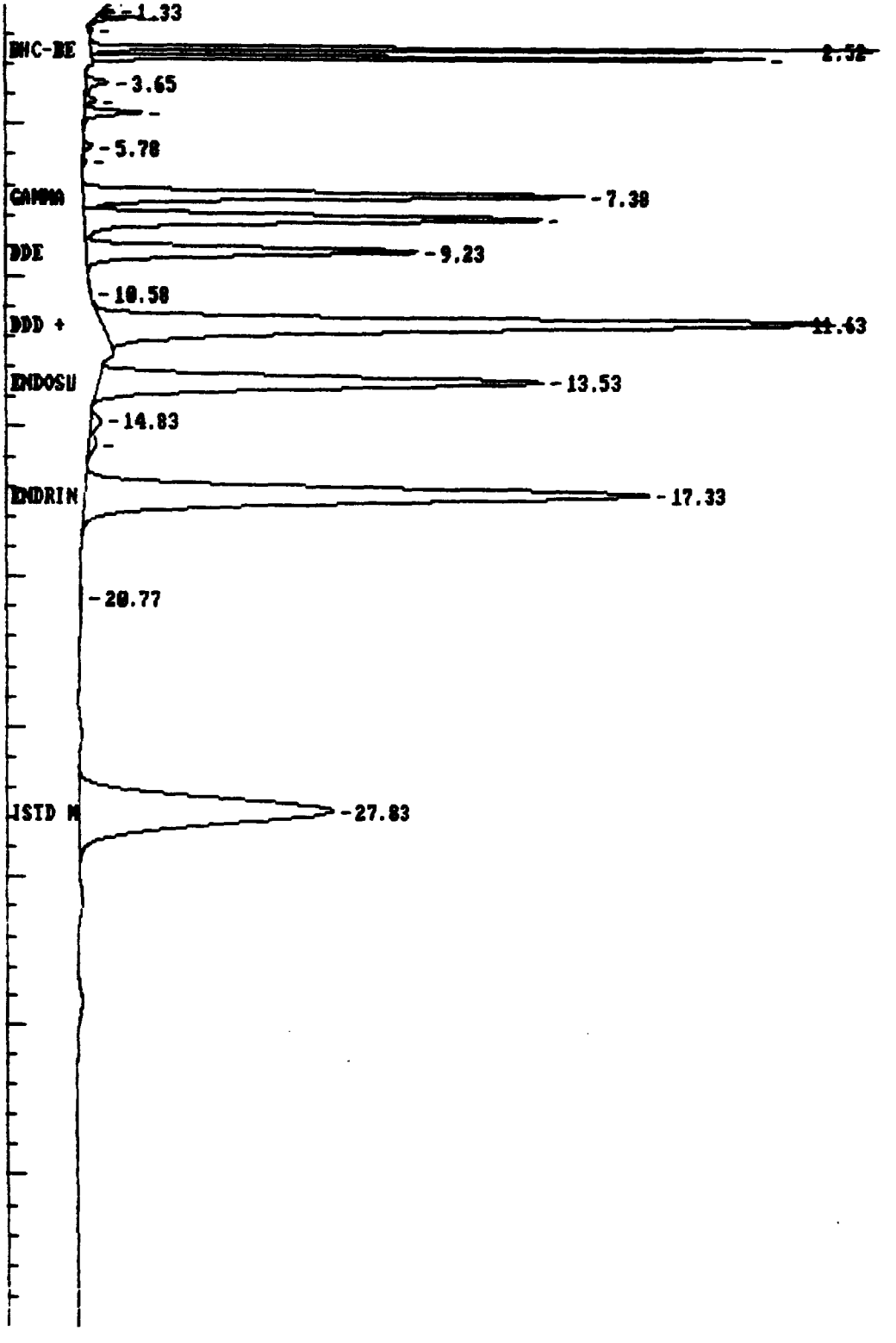
Internal Standard Amount: 1

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
4	2.52	BHC-BETA	0.0125	6.8913%	702618	112782	6.2	2	4	21	0	1.7853E-08
5	2.83	BHC-DELTA	0.0100	5.4939%	585492	96255	6.1	2	5	21	0	1.7080E-08
11	7.38	GAMMA CHLORDANE	0.0124	6.8359%	1199135	71652	16.7	2	11	21	0	1.0376E-08
12	8.17	ALPHA CHLORDANE	0.0123	6.7545%	1226085	65346	18.8	2	12	21	0	1.0028E-08
13	9.23	DDE	0.0142	7.8174%	917404	47379	19.4	2	13	21	0	1.5510E-08
15	11.63	DDD + EA	0.0452	24.8177%	2936443	104944	28.0	1	15	21	0	1.5384E-08
16	13.53	ENDOSULFAN SO4	0.0361	19.8112%	1751588	63804	27.5	1	16	21	0	2.0587E-08
19	17.33	ENDRIN KETONE	0.0393	21.5780%	2819596	80745	34.9	2	19	21	0	1.3930E-08
21	27.83	ISTD MIREX	1.0000	0.0000%	2213012	36174	61.2	1	21	21	0	4.5187E-07

TOTAL AMOUNT = 0.1820

Data File = P:2SF9.PTS Printed on 07-24-1990 at 13:59:10
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 19530 uv High Value: 134608 uv Scale factor: 1.0



NEW TIMED EVENTS FROM P:PESA

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

********** 07-24-1990 08:43:54 Version 4.1 **********

* Sample Name: PEST STD A LEVEL 3 Data File: P:1SF40 *
* Date: 07-18-1990 18:10:42 Method: P:PESA 07-24-1990 08:10:24 # 103 *
* Interface: 0 Cycle#: 40 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10.02 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: SCRN: * *

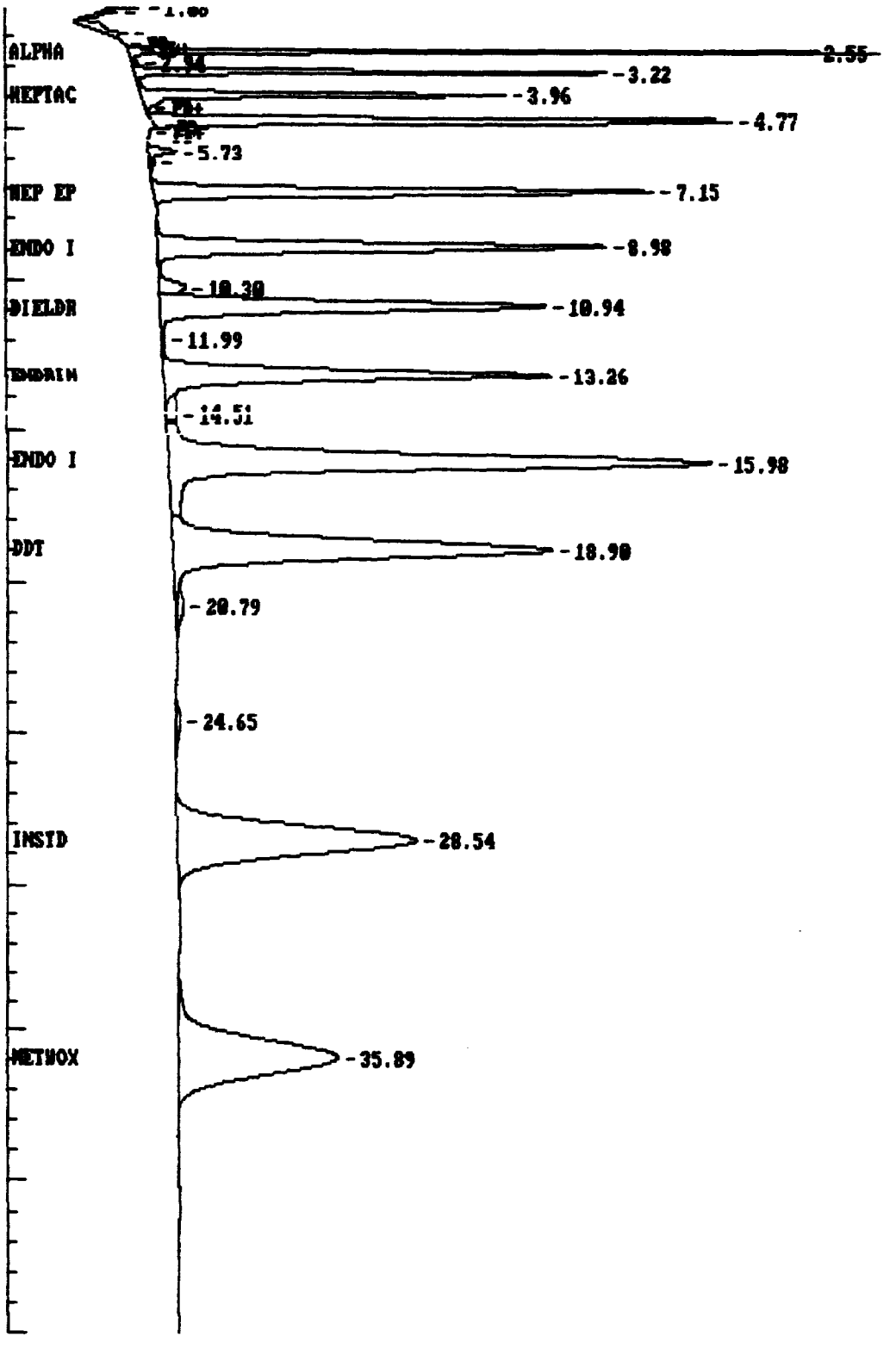
****

Starting Delay: 1.00 Ending retention time: 45.00
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
4	2.55	ALPHA BHC	0.0061	3.1924%	1429384	232440	6.1	3	4	22	0	4.2633E-09
6	3.22	LINDANE	0.0049	2.5649%	1098856	145872	7.5	2	6	22	0	4.4556E-09
7	3.96	HEPTACHLOR	0.0057	2.9802%	1154108	112481	10.3	2	7	22	0	4.9292E-09
8	4.77	ALDRIN	0.0097	5.0554%	1937048	179251	10.8	1	8	22	0	4.9819E-09
11	7.15	HEP EPOX	0.0120	6.2739%	2515731	154723	16.3	1	11	22	0	4.7605E-09
12	8.98	ENDO I	0.0145	7.6183%	2842826	138786	20.5	2	12	22	0	5.1155E-09
14	10.94	DIELDRIN	0.0144	7.5638%	2964147	119356	24.8	3	14	22	0	4.8711E-09
16	13.26	ENDRIN	0.0248	13.0083%	3594488	119859	30.0	3	16	22	0	6.9082E-09
18	15.98	ENDO II	0.0303	15.8820%	6492500	167882	38.7	2	18	22	0	4.6696E-09
19	18.90	DDT	0.0297	15.5696%	5177020	117495	44.1	3	19	22	0	5.7409E-09
22	28.54	INSTD MIREX	1.0000	0.0000%	4882703	74012	66.0	1	22	22	0	2.0480E-07
23	35.89	METHOXYCHLOR	0.0387	20.2913%	4046467	49457	81.8	1	23	22	0	9.5723E-09

TOTAL AMOUNT = 0.1909

Data File = P:1SF40.PTS Printed on 07-24-1990 at 08:44:34
Start time: 1.00 min. Stop time: 45.00 min. Offset: 0 mv.
Low Value: 101754 uv High Value: 350481 uv Scale factor: 1.0



IEW TIMED EVENTS FROM P:PESB

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

********** 07-24-1990 09:42:53 Version 4.1 **********

Sample Name: PEST STD B LEVEL 3 Data File: P:1SF41

Date: 07-18-1990 18:57:57 Method: P:1PESTB 07-23-1990 09:00:11 # 72

Interface: 0 Cycle#: 41 Operator AK Channel#: 0 Vial#: N.A.

Starting Peak Width: 10.02 Threshold: 1 Area Threshold: 100

Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE

Solvent Description: ULTRA HIGH PURITY NITROGEN

Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C

Detector 0: ECD QUANT Detector 1:

Misc. Information: SCRN:

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.002 sec.

Amount injected: 1.00 Dilution factor: 1.00

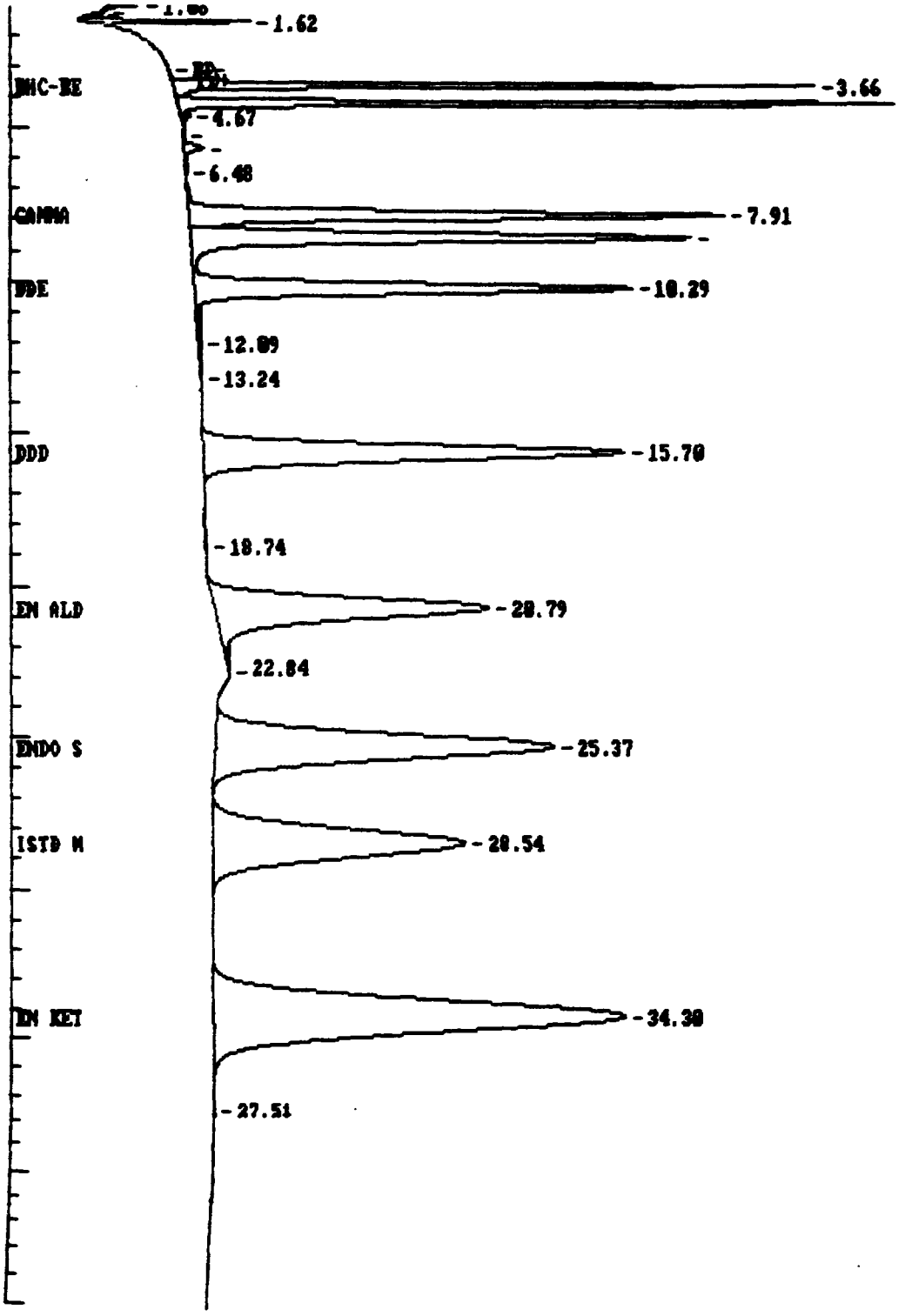
Internal Standard Amount: 1

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
5	3.66	BHC-BETA	0.0137	6.5673%	1605968	179138	9.0	2	5	21	0	8.5068E-09
6	4.26	BHC-DELTA	0.0108	5.2099%	1940985	199898	9.7	3	6	21	0	5.5838E-09
11	7.91	GAMMA CHLORDANE	0.0133	6.4124%	2768883	149596	18.5	2	11	21	0	4.8177E-09
12	8.63	ALPHA CHLORDANE	0.0135	6.4985%	2980648	139921	21.3	2	12	21	0	4.5354E-09
13	10.29	DDE	0.0164	7.8786%	2922915	122421	23.9	3	13	21	0	5.6072E-09
16	15.70	DDD	0.0269	12.9502%	4152927	117743	35.3	1	16	21	0	6.4870E-09
18	20.79	EN ALDEHYDE	0.0240	11.5271%	3757676	76707	49.0	3	18	21	0	6.3815E-09
20	25.37	ENDO SULFATE	0.0448	21.5533%	5411088	94954	57.0	1	20	21	0	8.2860E-09
21	28.54	ISTD MIREX	1.0000	0.0000%	4648059	70411	66.0	1	21	21	0	2.1514E-07
22	34.30	EN KETONE	0.0445	21.4026%	8667953	115057	75.3	1	22	21	0	5.1365E-09

TOTAL AMOUNT = 0.2080

ata File = P:1SF41.PTS Printed on 07-24-1990 at 09:43:41
tart time: 1.00 min. Stop time: 45.00 min. Offset: 0 mv.
ow Value: 98440 uv High Value: 325118 uv Scale factor: 1.0



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

********** 07-24-1990 14:00:07 Version 4.1 **********

Sample Name: PEST STD LEVEL 3 Data File: P:2SF41 *

Date: 07-18-1990 18:57:55 Method: P:2PESTA 07-23-1990 09:52:51 # 88 *

Interface: 0 Cycle#: 41 Operator AK Channel#: 1 Vial#: N.A. *

Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *

Solvent Description: ULTRA HIGH PURITY NITROGEN *

Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *

Detector 0: ECD QUANT Detector 1: *

Misc. Information: SCRN: * *

****

Starting Delay: 1.00 Ending retention time: 45.00

Area reject: 0 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 1.00

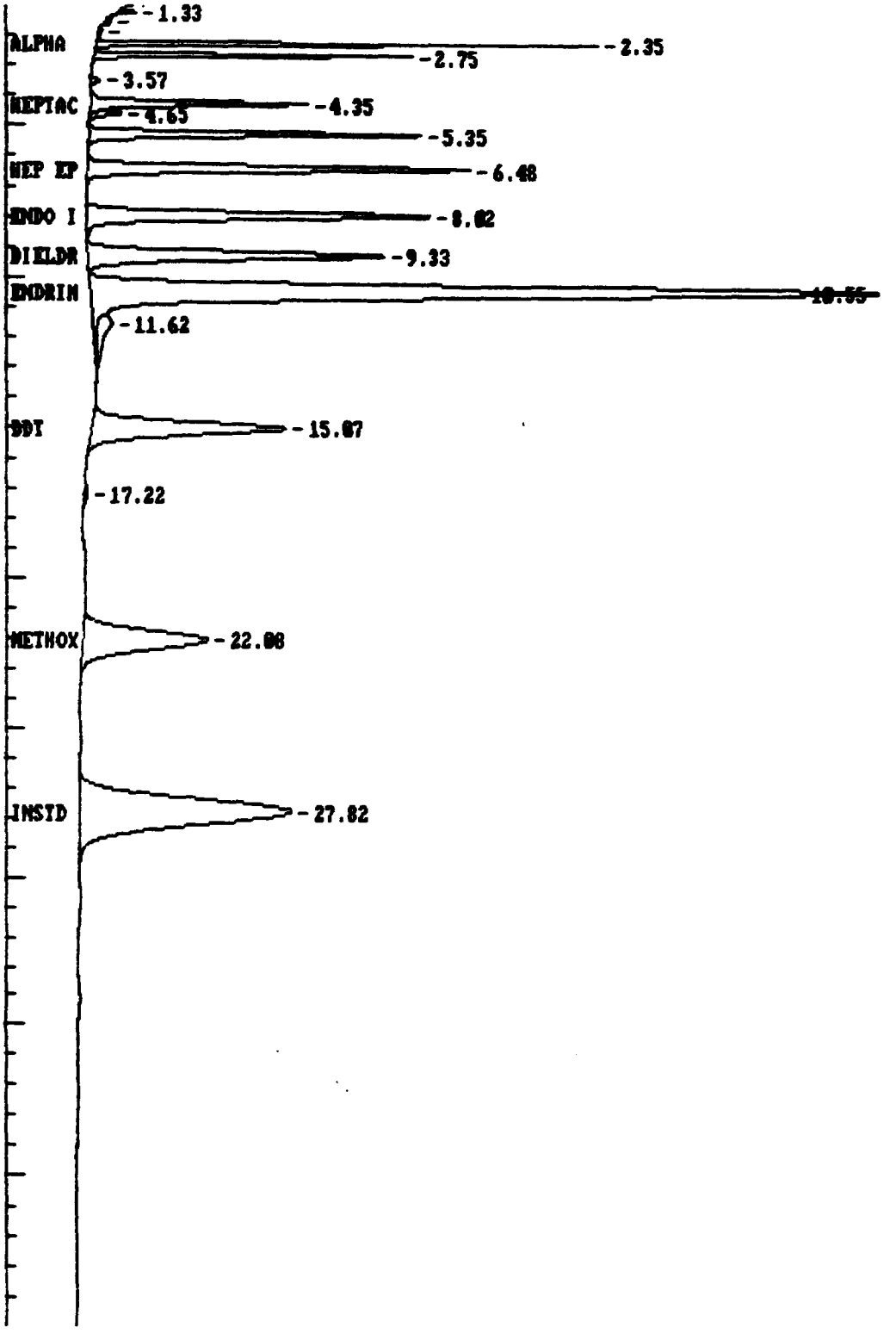
Internal Standard Amount: 1

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
4	2.35	ALPHA BHC	0.0064	3.2648%	451367	87271	5.2	2	4	18	0	1.4107E-08
5	2.75	LINDANE	0.0051	2.6359%	330022	55383	6.0	2	5	18	0	1.5577E-08
7	4.35	HEPTACHLOR	0.0050	2.5685%	413754	37919	10.9	3	7	18	0	1.2107E-08
9	5.35	ALDRIN	0.0101	5.1715%	659233	57848	11.4	2	9	18	0	1.5300E-08
10	6.48	HEP EPOX	0.0125	6.4300%	956149	66793	14.3	1	10	18	0	1.3116E-08
11	8.02	ENDO I	0.0153	7.8284%	1034836	59844	17.3	1	11	18	0	1.4754E-08
12	9.33	DIELDRIN	0.0143	7.3079%	1004601	51649	19.5	2	12	18	0	1.4187E-08
13	10.55	ENDRIN + ENDO II	0.0558	28.6354%	3840026	137492	27.9	3	13	18	0	1.4544E-08
15	15.07	DDT	0.0298	15.3050%	1031743	33882	30.5	1	15	18	0	2.8931E-08
17	22.08	METHOXYCHLOR	0.0407	20.8526%	964488	21562	44.7	1	17	18	0	4.2166E-08
18	27.82	INSTD MIREX	1.0000	0.0000%	2220884	36770	60.4	1	18	18	0	4.5027E-07

TOTAL AMOUNT = 0.1950

ata File = P:2SF41.PTS Printed on 07-24-1990 at 14:00:30
tart time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
ow Value: 21493 uv High Value: 161334 uv Scale factor: 1.0



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

********** 07-24-1990 14:01:26 Version 4.1 **********

Sample Name: STD ~~1248 LEVEL~~ 1 Pest std B lw3 Data File: P:2SF42 *

Date: 07-18-1990 19:45:12 Method: P:2PESTB 07-23-1990 09:51:14 # 65 *

Interface: 0 Cycle#: 42 Operator AK Channel#: 1 Vial#: N.A. *

Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *

Solvent Description: ULTRA HIGH PURITY NITROGEN *

Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *

Detector 0: ECD QUANT Detector 1: *

Misc. Information: SCRN: * *

****

tarting Delay: 1.00 Ending retention time: 45.00

rea reject: 0 One sample per 1.000 sec.

mount injected: 1.00 Dilution factor: 1.00

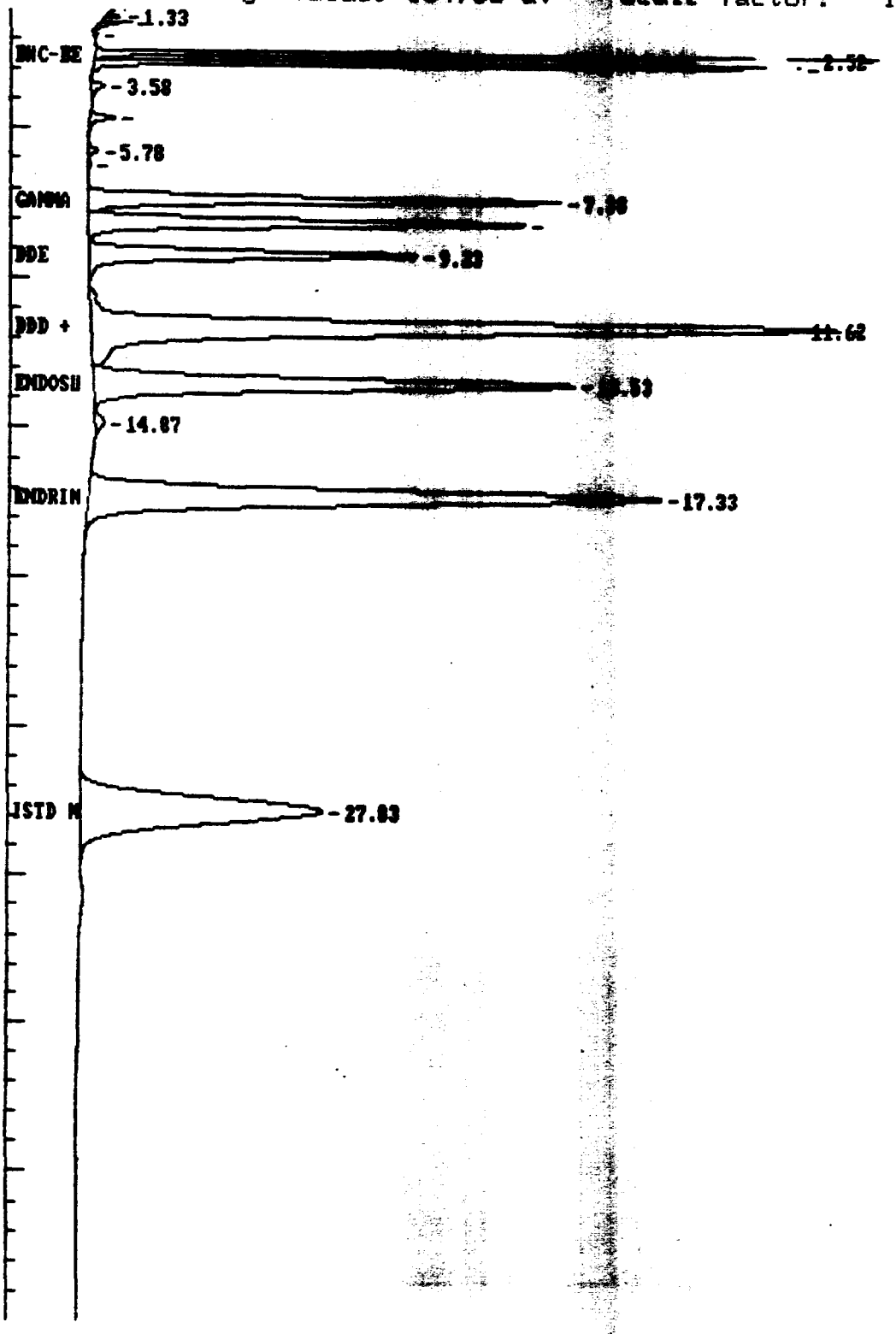
nternal Standard Amount: 1

ample Weight: 1.000000

AK UM	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
4	2.52	BHC-BETA	0.0132	6.5261%	685125	111504	6.1	2	4	17	0	1.9206E-08
5	2.82	BHC-DELTA	0.0114	5.6525%	620267	100426	6.2	2	5	17	0	1.8374E-08
0	7.38	GAMMA CHLORDANE	0.0124	6.1358%	1108250	67187	16.5	2	10	17	0	1.1163E-08
1	8.17	ALPHA CHLORDANE	0.0122	6.0515%	1131059	61948	18.3	2	11	17	0	1.0787E-08
2	9.23	DDE	0.0152	7.5340%	910365	46498	19.6	2	12	17	0	1.6686E-08
3	11.62	DDD + EA	0.0525	26.0316%	3171423	106607	29.7	2	13	17	0	1.6550E-08
4	13.53	ENDOSULFAN SO4	0.0425	21.0862%	1919607	68520	28.0	2	14	17	0	2.2148E-08
6	17.33	ENDRIN KETONE	0.0423	20.9821%	2823045	81366	34.7	1	16	17	0	1.4985E-08
7	27.83	ISTD MIREX	1.0000	0.0000%	2057118	34165	60.2	1	17	17	0	4.8612E-07

TOTAL AMOUNT = 0.2016

ata File = P:2SF42.PTS Printed on 07-24-1990 at 14:01:48
tart time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
ow Value: 21232 uv High Value: 154735 uv Scale factor: 1.0



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

********** 07-23-1990 10:15:51 Version 4.1 **********

* Sample Name: STD 1242 LEVEL 1 Data File: P:1SF11 *
* Date: 07-17-1990 19:19:12 Method: P:1MET42 07-23-1990 10:15:13 # 39 *
* Interface: 0 Cycle#: 11 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

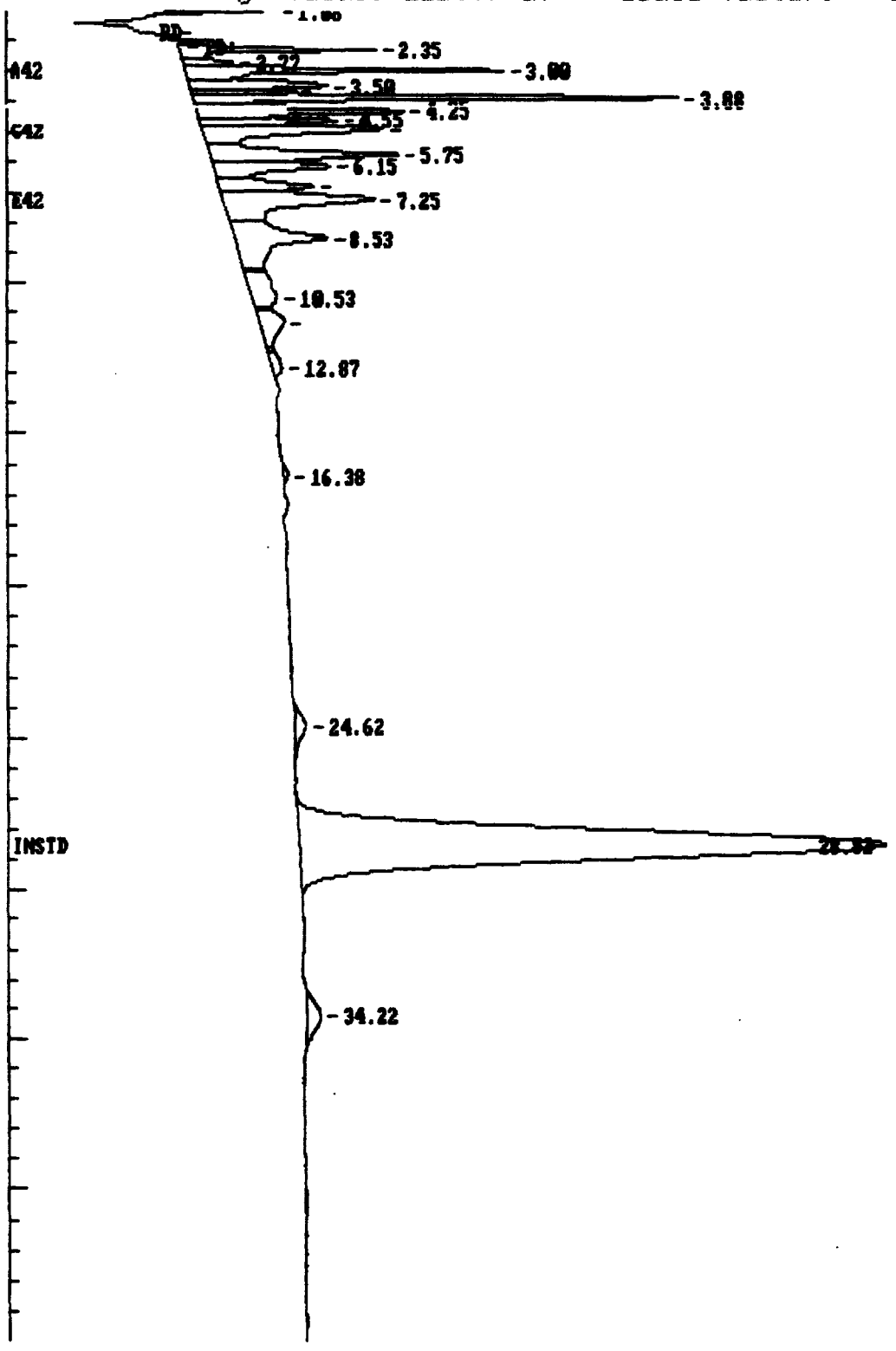
* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 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/NG ℓ	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	3.00	A42	0.0134	16.7719%	426235	41624	10.2	2	4	21	0	3.1369E-08
7	3.88	B42	0.0022	2.8125%	659620	63467	10.4	2	7	21	0	3.3991E-09
10	4.88	C42	0.0173	21.6938%	560915	23664	23.7	2	10	21	0	3.0832E-08
11	5.75	D42	0.0175	21.9922%	489780	24593	19.9	2	11	21	0	3.5796E-08
14	7.25	E42	0.0293	36.7295%	613990	19722	31.1	2	14	21	0	4.7689E-08
21	28.52	INSTD MIREX	1.0000	0.0000%	5097594	76894	66.3	1	21	21	0	1.9617E-07

TOTAL AMOUNT = 0.0797

Data File = P:1SF11.PTS Printed on 07-23-1990 at 10:16:07
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 116253 uv High Value: 222097 uv Scale factor: 1.0



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

********** 07-23-1990 10:17:24 Version 4.1 **********

* Sample Name: STD 1242 LEVEL 2 Data File: P:1SF12 *
* Date: 07-17-1990 20:06:33 Method: P:1MET42 07-23-1990 10:15:13 # 39 *
* Interface: 0 Cycle#: 12 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

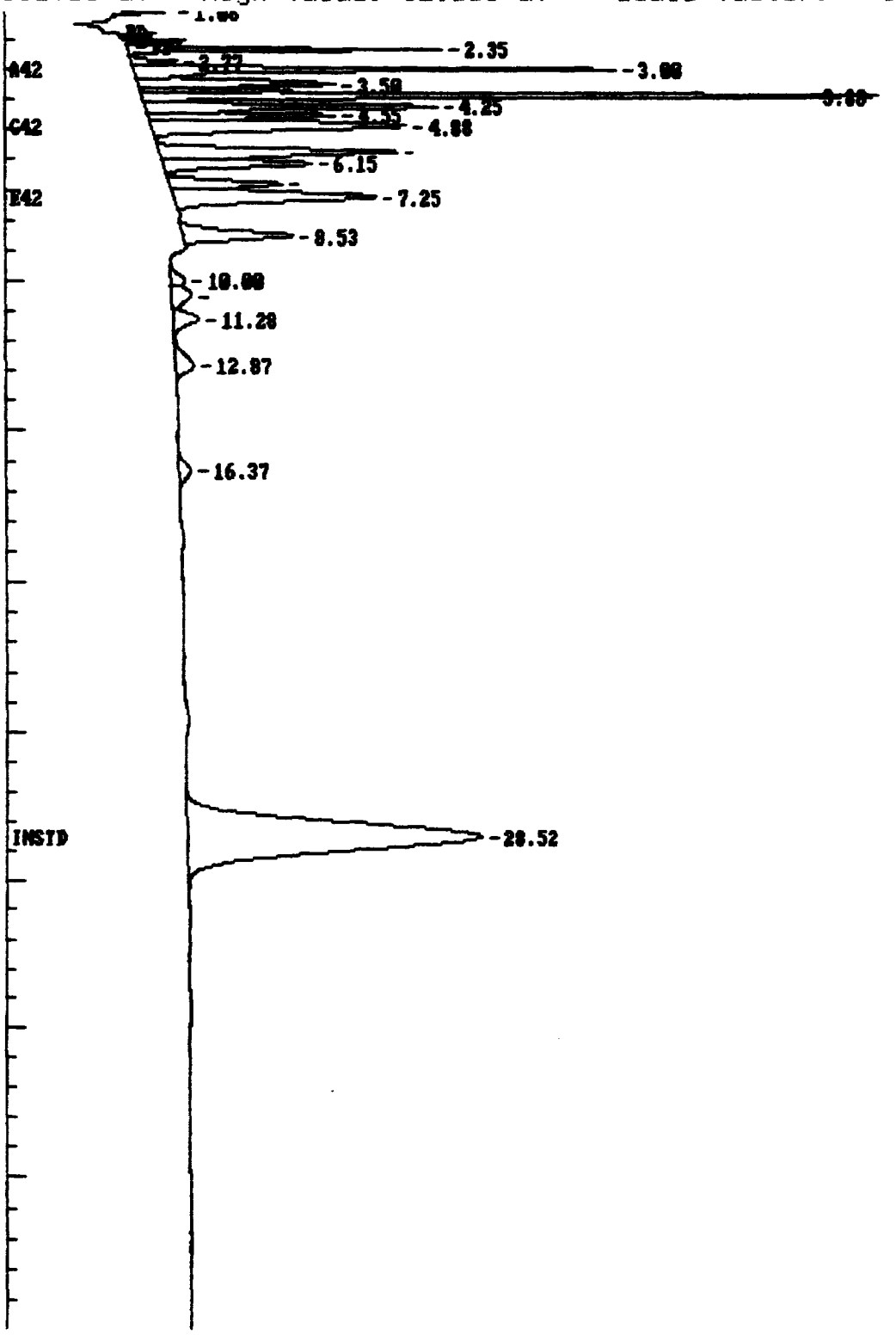
* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 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/KG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	3.00	A42	0.1118	21.9627%	1112859	122420	9.1	2	4	21	0	1.0045E-07
7	3.88	B42	0.1114	21.8841%	1868023	187226	10.0	2	7	21	0	5.9628E-08
10	4.88	C42	0.1016	19.9556%	1278629	64416	19.8	2	10	21	0	7.9436E-08
11	5.75	D42	0.0969	19.0473%	990969	59998	16.5	2	11	21	0	9.7830E-08
14	7.25	E42	0.0873	17.1503%	1134213	50801	22.3	2	14	21	0	7.6962E-08
21	28.52	INSTD MIREX	1.0000	0.0000%	4936383	74524	66.2	1	21	21	0	2.0258E-07

TOTAL AMOUNT = 0.5090

Data File = P:1SF12.PTS Printed on 07-23-1990 at 10:17:40
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 116953 uv High Value: 320853 uv Scale factor: 1.0



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

********** 07-23-1990 10:18:48 Version 4.1 **********

* Sample Name: STD 1242 LEVEL 3 Data File: P:1SF13 *
* Date: 07-17-1990 20:53:54 Method: P:1MET42 07-23-1990 10:15:13 # 39 *
* Interface: 0 Cycle#: 13 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

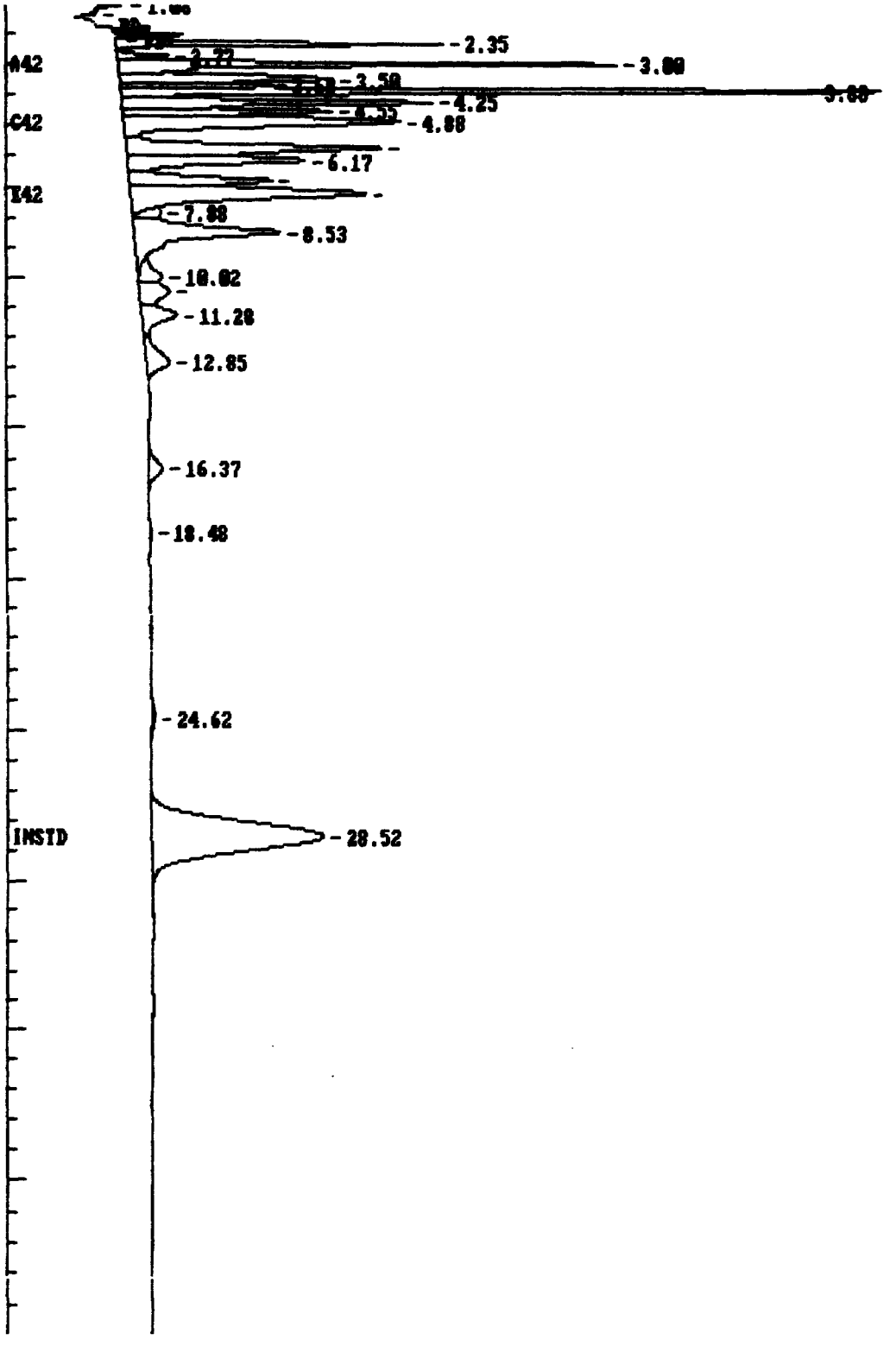
****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 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/KG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
5	3.00	A42	0.2418	19.5066%	2059369	219947	9.4	2	5	25	0	1.1741E-07
8	3.88	B42	0.2450	19.7663%	3408904	335281	10.2	2	8	25	0	7.1871E-08
11	4.88	C42	0.2489	20.0784%	2591444	121651	21.3	2	11	25	0	9.6035E-08
12	5.75	D42	0.2548	20.5541%	2039284	112216	18.2	2	12	25	0	1.2493E-07
15	7.25	E42	0.2491	20.0946%	2667323	103507	25.8	3	15	25	0	9.3379E-08
25	28.52	INSTD MIREX	1.0000	0.0000%	4989050	75323	66.2	1	25	25	0	2.0044E-07

TOTAL AMOUNT = 1.2395

Data File = P:1SF13.PTS Printed on 07-23-1990 at 10:19:04
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 112609 uv High Value: 467558 uv Scale factor: 1.0



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

********** 07-23-1990 10:20:09 Version 4.1 **********

* Sample Name: STD 1242 LEVEL 4 Data File: P:1SF14 *
* Date: 07-17-1990 21:41:16 Method: P:1MET42 07-23-1990 10:15:13 # 39 *
* Interface: 0 Cycle#: 14 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

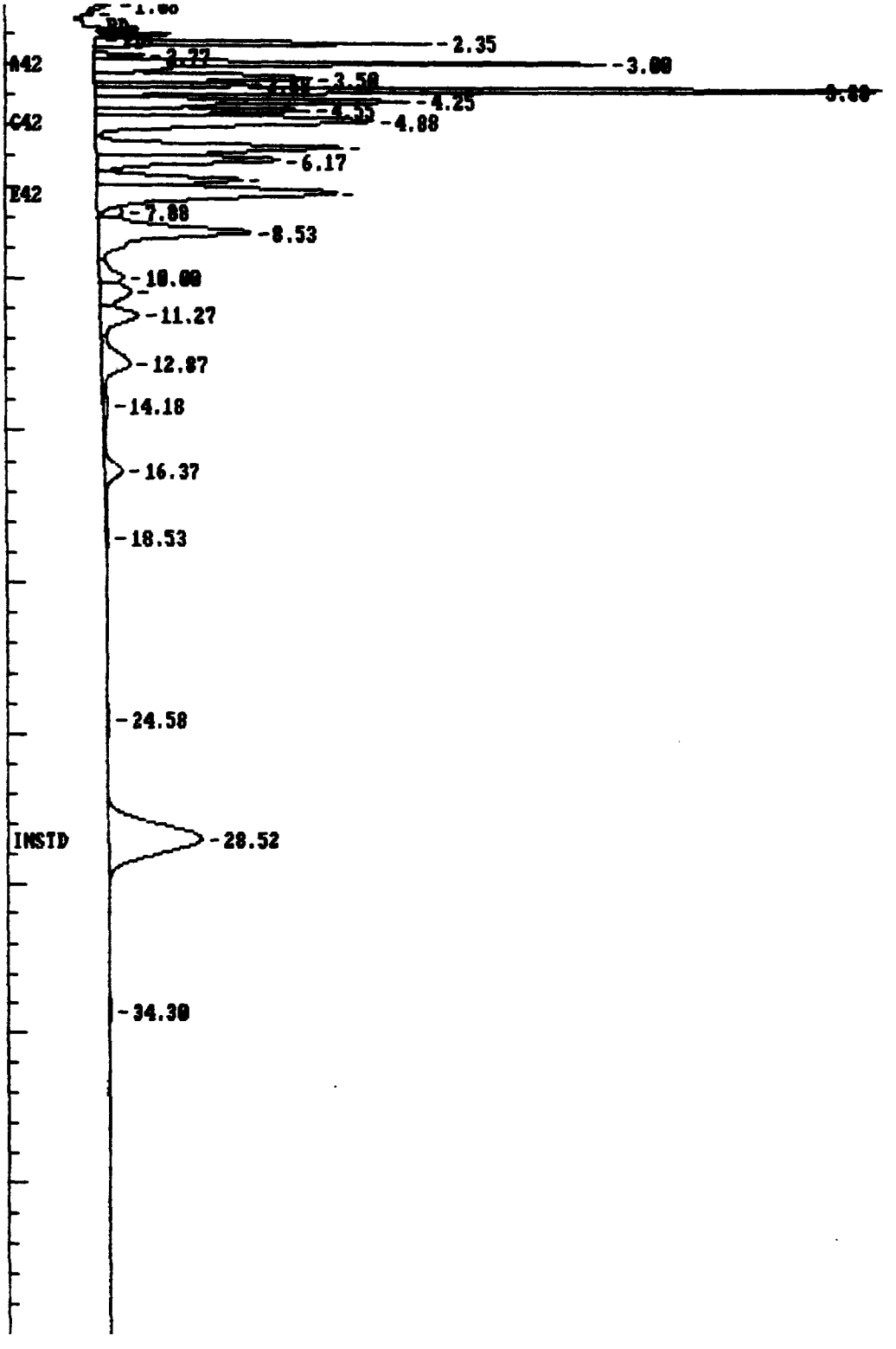
****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 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/~~KG~~ L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
5	3.00	A42	0.4800	19.7810%	4356641	475528	9.2	2	5	26	0	1.1018E-07
8	3.88	B42	0.5051	20.8161%	7356941	733114	10.0	2	8	26	0	6.8658E-08
11	4.88	C42	0.4800	19.7803%	5347322	257798	20.7	2	11	26	0	8.9761E-08
12	5.75	D42	0.4784	19.7137%	4053457	229506	17.7	2	12	26	0	1.1801E-07
15	7.25	E42	0.4831	19.9088%	5621947	222370	25.3	3	15	26	0	8.5931E-08
26	28.52	INSTD MIREX	1.0000	0.0000%	5762238	86894	66.3	1	26	26	0	1.7354E-07

TOTAL AMOUNT = 2.4266

Data File = P:1SF14.PTS Printed on 07-23-1990 at 10:20:25
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 116842 uv High Value: 867458 uv Scale factor: 1.0



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

********** 07-23-1990 10:21:25 Version 4.1 **********

* Sample Name: STD 1242 LEVEL 5 Data File: P:1SF15 *
* Date: 07-17-1990 22:28:33 Method: P:1MET42 07-23-1990 10:15:13 # 39 *
* Interface: 0 Cycle#: 15 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

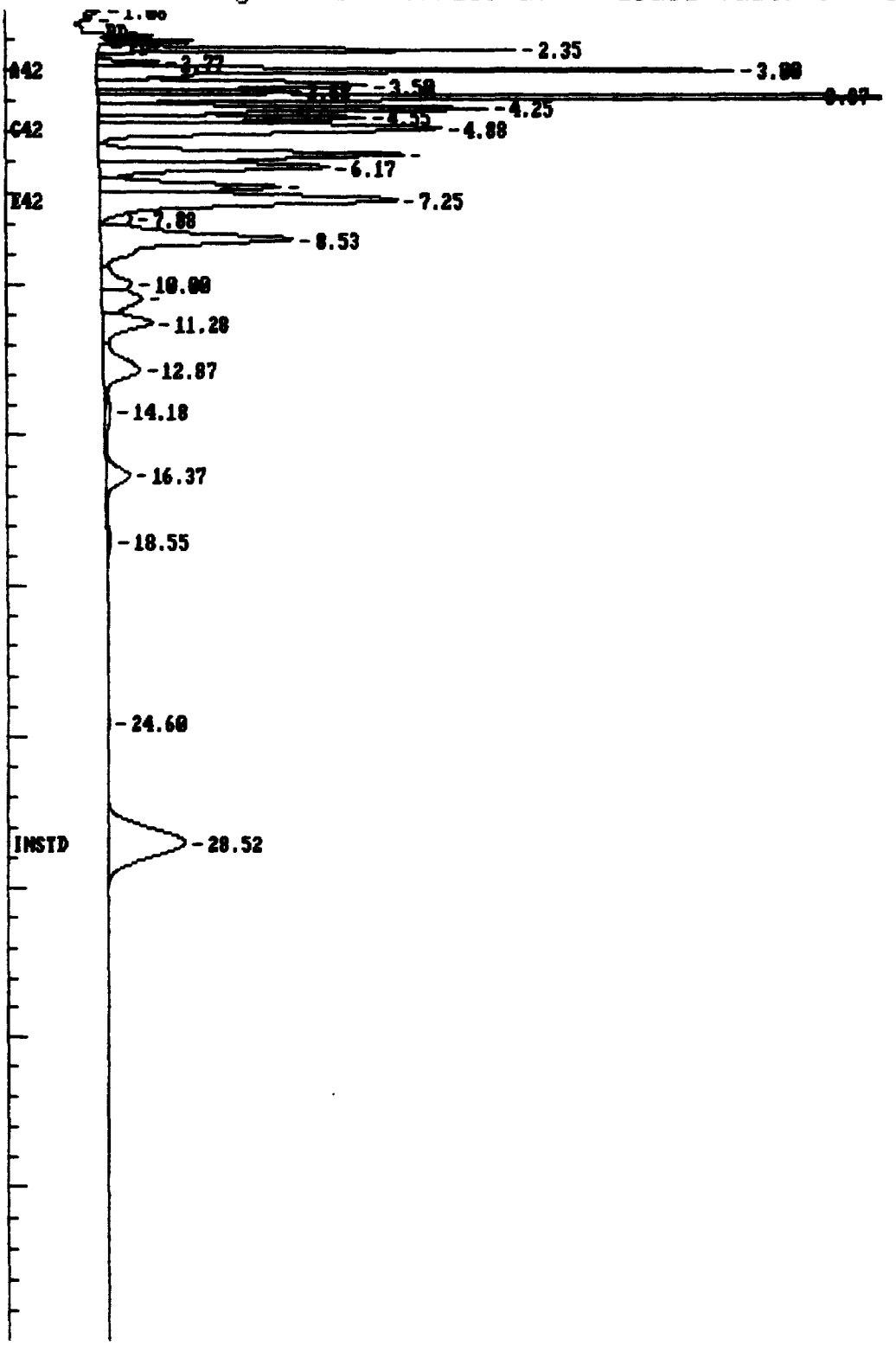
****

Starting Delay: 1.00 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 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/KG l	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
5	3.00	A42	0.7531	20.1071%	5967979	651038	9.2	2	5	26	0	1.2618E-07
8	3.87	B42	0.7363	19.6584%	9365970	801548	11.7	2	8	26	0	7.8610E-08
11	4.88	C42	0.7523	20.0864%	7316761	350901	20.9	2	11	26	0	1.0282E-07
12	5.75	D42	0.7524	20.0892%	5526900	311877	17.7	2	12	26	0	1.3613E-07
15	7.25	E42	0.7513	20.0589%	7688472	303754	25.3	3	15	26	0	9.7712E-08
26	28.52	INSTD MIREX	1.0000	0.0000%	5191442	78499	66.1	1	26	26	0	1.9262E-07

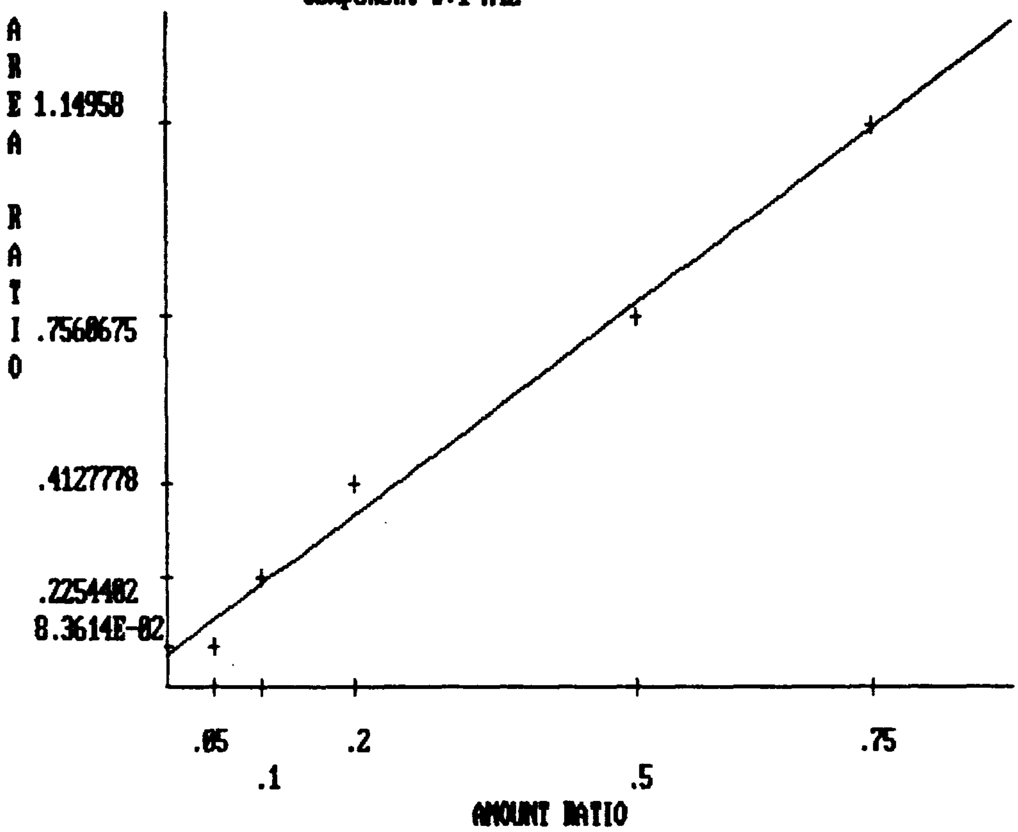
TOTAL AMOUNT = 3.7453

Data File = P:1SF15.PTS Printed on 07-23-1990 at 10:21:41
Start time: 1.00 min. Stop time: 44.92 min. Offset: 0 mv.
Low Value: 114120 uv High Value: 937831 uv Scale factor: 1.0



Method P:1MET42
Sample PCB
Operator AK
Run date 07-23-1990 10:15:13 version: 39
Printed on 07-23-1990 AT 10:29:06
Straight Line fit

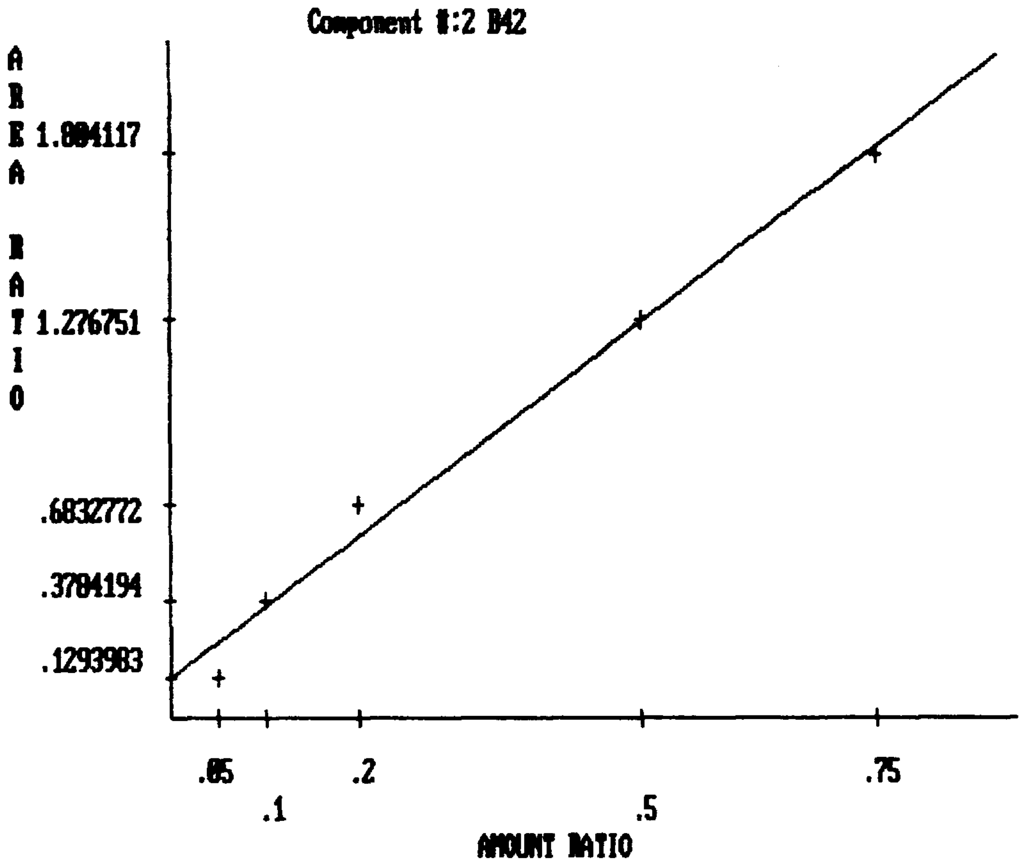
Component #:1 A42



Component 1 = A42
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	426235	0.0500	0.0836
2	0.1000	1112859	0.1000	0.2254
3	0.2000	2059369	0.2000	0.4128
4	0.5000	4356641	0.5000	0.7561
5	0.7500	5967979	0.7500	1.1496

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.4411E+00 * Amt ratio + 6.4347E-02
Amt ratio = 6.9392E-01 * Area ratio + -4.4651E-02
Correlation Coefficient = 0.9898



Component 2 = B42

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	659620	0.0500	0.1294
2	0.1000	1868023	0.1000	0.3784
3	0.2000	3408904	0.2000	0.6833
4	0.5000	7356941	0.5000	1.2768
5	0.7500	9365970	0.7500	1.8041

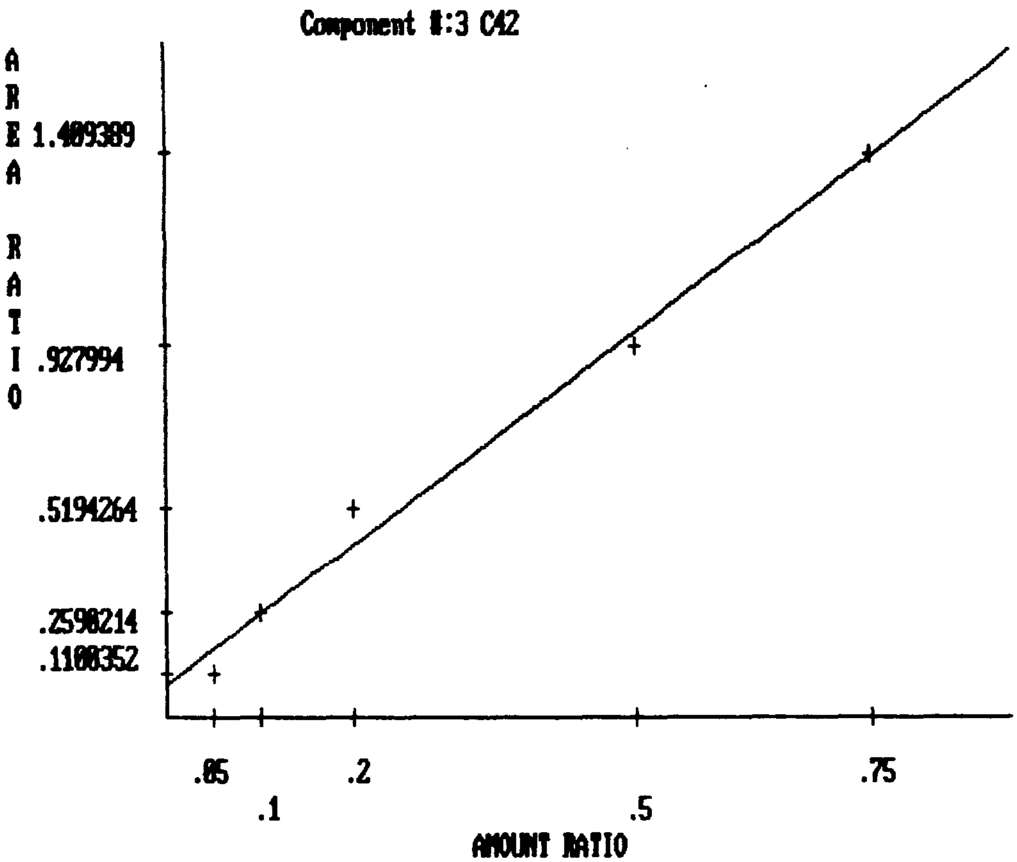
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.2816E+00 * Amt ratio + 1.2428E-01

Amt ratio = 4.3829E-01 * Area ratio + -5.4472E-02

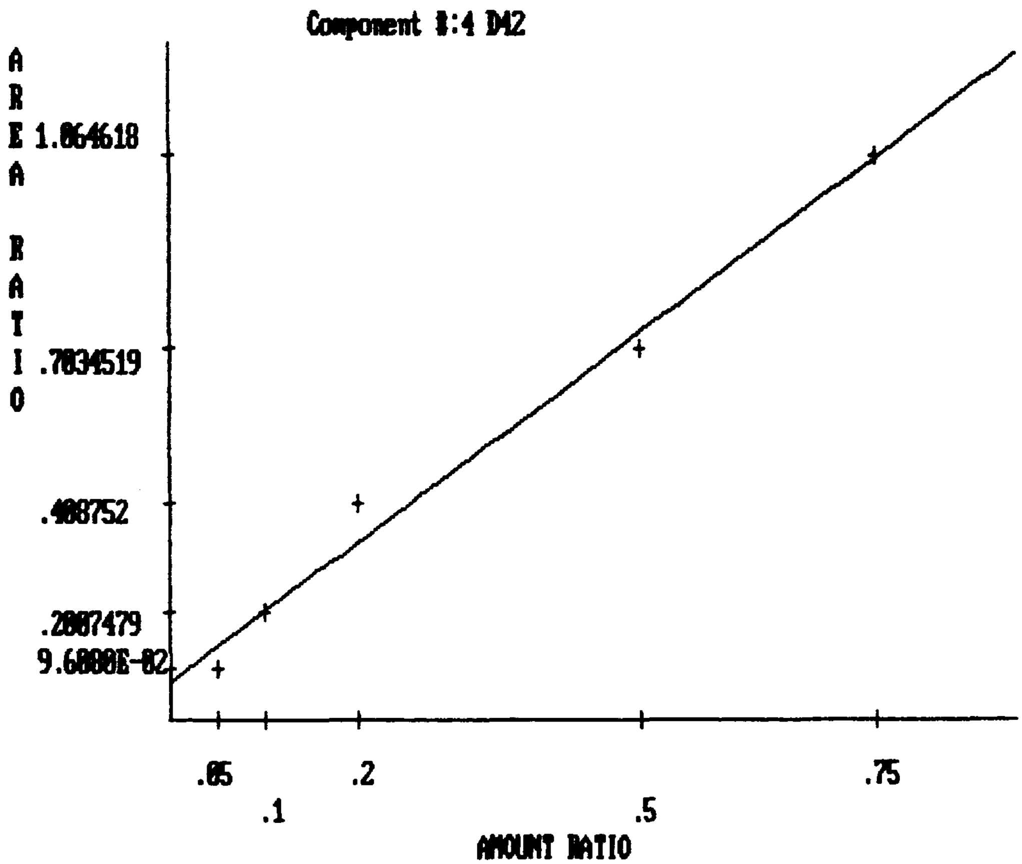
Correlation Coefficient = 0.9870



Component 3 = C42
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	560915	0.0500	0.1100
2	0.1000	1278629	0.1000	0.2590
3	0.2000	2591444	0.2000	0.5194
4	0.5000	5347322	0.5000	0.9280
5	0.7500	7316761	0.7500	1.4094

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.7678E+00 * Amt ratio + 7.9461E-02
Amt ratio = 5.6566E-01 * Area ratio + -4.4948E-02
Correlation Coefficient = 0.9892



Component 4 = D42
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	489780	0.0500	0.0961
2	0.1000	990969	0.1000	0.2007
3	0.2000	2039284	0.2000	0.4088
4	0.5000	4053457	0.5000	0.7035
5	0.7500	5526900	0.7500	1.0646

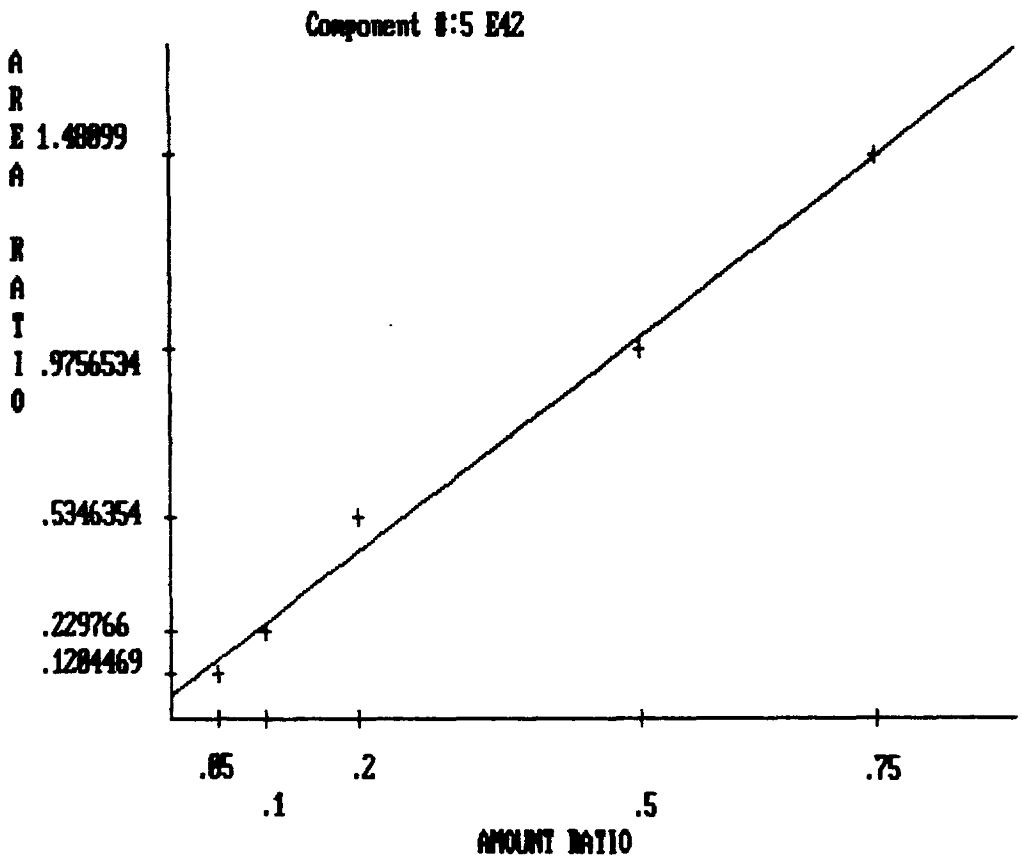
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 1.3180E+00 * Amt ratio + 7.2973E-02

Amt ratio = 7.5873E-01 * Area ratio + -5.5367E-02

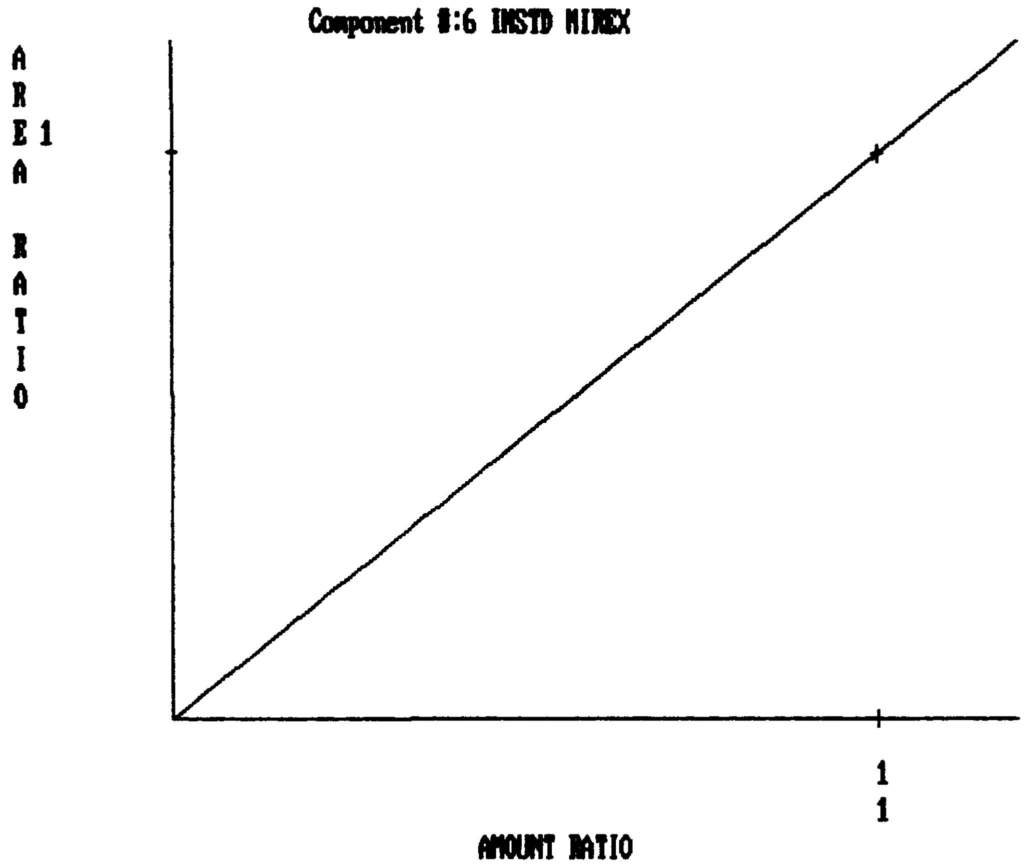
Correlation Coefficient = 0.9873



Component 5 = E42
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	613990	0.0500	0.1204
2	0.1000	1134213	0.1000	0.2298
3	0.2000	2667323	0.2000	0.5346
4	0.5000	5621947	0.5000	0.9757
5	0.7500	7688472	0.7500	1.4810

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.8845E+00 * Amt ratio + 6.5268E-02
Amt ratio = 5.3065E-01 * Area ratio + -3.4635E-02
Correlation Coefficient = 0.9908



Component 6 = INSTD MIREX
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	1.0000	5097594	1.0000	1.0000
2	1.0000	4936383	1.0000	1.0000
3	1.0000	4989050	1.0000	1.0000
4	1.0000	5762238	1.0000	1.0000
5	1.0000	5191442	1.0000	1.0000

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

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

********** 07-26-1990 10:53:49 Version 4.1 **********

* Sample Name: STD TCMX Data File: P:1TC1 *
* Date: 07-25-1990 16:16:34 Method: P:TCMXSTD 07-26-1990 07:15:08 # 13 *
* Interface: 0 Cycle#: 1 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: HP 5890A #1 Column Type: MIXED/SINGLE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C DET 350C *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: *

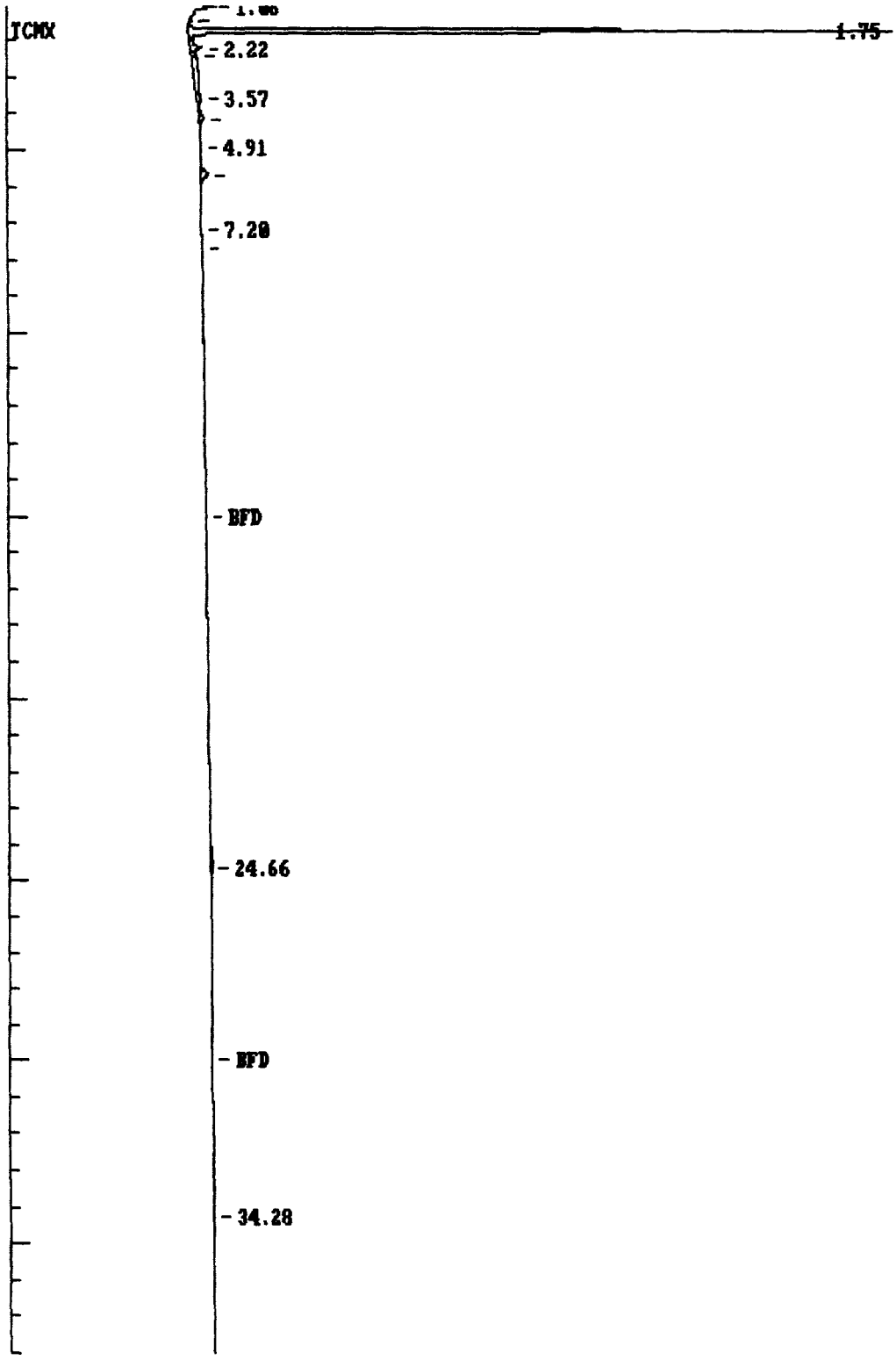
****

Starting Delay: 1.00 Ending retention time: 38.00
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	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.75	TCMX	0.0090	100.0000%	2468099	522815	4.7	2	3	0	3.6510E-09

TOTAL AMOUNT = 0.0090

Data File = P:1TC1.PTS Printed on 07-26-1990 at 10:54:19
Start time: 1.00 min. Stop time: 38.01 min. Offset: 0 mv.
Low Value: 0 uv High Value: 605482 uv Scale factor: 1.0



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: AUG 30 1990

SUBJECT: Review of Region 5 data for Peerless Chem Co.

FROM: Curtis Ross, Director
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF 7262
Sample Numbers: 90FT20 S53, S54, D54, 90FT02R95
Parameter(s): As, Cd, Pb, Sb, Se, Tl
Laboratory: CRL

Results Status:

(X) 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)

RECEIVED BY/DATE:

Comments:

DATA SET	SITE	DU/ACT.
SF 7262	Peerless Chem Co.	TFA302

SAMPLES	PARAMETER(S)
90FT20553554 D54, 90FT02R95	As, Cd, Pb, Sb, Se, Tl

SAMPLED	RECEIVED	DUE	LAB
11 July 90	12 July 90	2 Aug 90	CRL

SHIPPED	DATA RECEIVED	CONTRACT
NA	2 Aug 90	ESAT

Comments By Reviewer:

(X) REVIEWED ( ) UNREVIEWED TEAM LEADER/DATE 27 Aug 90

( ) REVIEWED (✓) UNREVIEWED SECTION CHIEF/DATE 8/29/90

(✓) REVIEWED ( ) UNREVIEWED QC COORDINATOR/DATE James H. Williams, Jr.

REVIEWED BY CONTRACT COORDINATOR/DATE

RECEIVED 8/29/90 TRANSMITTED 8/30/90 DATA MANAGEMENT COORDINATOR

CC: QUALITY CONTROL COORDINATOR

ESAT CONTRACT

TID NO: 05-06
TASK NO: 3191

DATASET CUSTODY TRANSFER FORM

Analytical testing was completed on JULY 27, 1990 for:

DATASET NO: SF7262 SITE NAME: PEERLESS CHAIN CO.

PARAMETER : GFAA METALS

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

SAMPLE NUMBERS: 90FT20S53 — S54, 90FT20D54, 90FT02R95

NUMBER OF SAMPLES: 4

ESAT APPROVALS:

B. [illegible] 7-27-90
(ANALYST DATE)

[illegible] 8/2/90
(TEAM LEADER DATE)

C Sims Bender 7/31/90
(QC COORDINATOR DATE)

P. Henley 8-2-90
(ESAT TEAM MANAGER DATE)

COMMENTS:

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.

J. Barry 8/2/90
(DELIVERED BY DATE)

[illegible] 2 Aug 90
(RECEIVED BY DATE)

EPA APPROVALS:

[illegible] 24 Aug 90
(EPA TASK MONITOR DATE)

[x] Reviewed
[ ] Unreviewed
[x] Accepted
[ ] Rejected
[ ] Returned/_____ (Date)

COMMENTS:

[illegible] 8/29/90
(SECTION CHIEF DATE)

[ ] Reviewed [✓] Unreviewed

(ESAT DPO DATE)

Sylvia Duffin, 8/29/90, 8/30/90
(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: SF7262

Task No: 3191

GFAA METALS DELIVERABLES CHECK-OFF LIST

FOR EACH SUPERFUND NUMBER REPORTED:

[✓] SAMPLE LOG SHEET/RESULTS SUMMARY (Orig.+2 copies)

[ ] QUALITY CONTROL SUMMARY N/A

[✓] DATASET CUSTODY TRANSFER FORM (Signed/3 Copies)

- [ ] Copy QA/QC
- [✓] Copy TID File
- [✓] Copy EPA

[✓] SAMPLE DATA PACKAGE

[✓] Data Summary Table

- [✓] Run Sequence
- [✓] Raw Data--Regression Table
- [✓] Raw Data--Strip Chart and/or Printer Tape

[ ] LIMS DATA ENTRY VERIFICATION

JVT 14 Aug 90 ESAT

TFA302

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 7/11/90 LAB ARRIVAL DATE 7/12/90 DUE DATE 8/2/90

DU NUMBER TFA-~~[illegible]~~ DATA SET NUMBER 7262 STUDY PEERLESS CHAIN Co. PRIORITY — CONTRACTOR —

CRL LOG NUMBER	SAMPLE DESCRIPTION	TOTAL METALS WATER Cd UG/L	TOTAL METALS WATER TOTAL ICAP UG/L MET111	TOTAL METALS WATER AS UG/L MET101	TOTAL METALS WATER PB UG/L MET1101	TOTAL METALS WATER SB UG/L MET1201	TOTAL METALS WATER SE UG/L MET1211	TOTAL METALS WATER TL UG/L MET1221
90FT20S53	RW15-089101	X 0.2	X	X 2u	X 2u	X 2u	X 2u	X 42u
S54	RW25-089120	X 0.2	X	X 2u	X 2u	X 2u	X 2u	X 62u
D54	DUP5-089129	X 0.2	X	X 2u	X 2u	X 2u	X 2u	X 22u
90FT02R95	BLANK 5-089138	X 0.2	X	X 2u	X 2u	X 2u	X 2u	X 2u
		B. Lynn		B. Lynn	B. Lynn	B. Lynn	B. Lynn	B. Lynn
		7-18-90		7-26-90	7-17-90	7-24-90	7-23-90	7-27-90
Shipment is	complete							

---

* FLAMELESS * CSC VERSION 1.00 *

NAME OF ANALYST ---: BAI
DATE OF ANALYSIS --: 07-25-1990
PARAMETER NAME ----: AS
DATA SET # --------: SF7262

B. Yu
7-26-90

SAMPLE NO.	CONC.	R VALUE	SLOPE	
BLANK	.2560923	.9993736	.01601	2u Limit = ± 2 µg/l
AQC 23.5 UG/L	24.52458	.9975857	.01525	%R = 104.4 Limit = 100 ± 10%
90FT20S53	-1.004905	.9753532	.0204	Rerun r<0.995 SF7262
90FT20S54	-.3674564	.9987571	.01524	2u
90FT20D54	-1.001237	.9468079	.01618	Rerun r<0.995
90FT02R95	6.024465E-02	.9980959	.01328	2u
90FT20S53	13.49462	.5005098	.00558	Rerun r<0.995
AQC 23.5 UG/L	6.274597	.9340875	.02134	Rerun r<0.995
AQC 23.5 UG/L	29.79787	.9084733	8.409999E-03	Rerun r<0.995
AQC 23.5 UG/L	26.10314	.9985434	.01183	%R = 111.0 Limit = 100 ± 10%

all sample data are less than IDL and are acceptable

BLANK

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	8.999999E-03	4.100037E-03	-4.899963E-03	-119.5102 %
10	.154	.1642	1.020004E-02	6.211959 %
20	.33	.3243	-5.699992E-03	-1.757629 %
30	.484	.4844	4.000068E-04	8.257778E-02 %

AQC 23.5 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.361	.3739999	1.299986E-02	3.4759 %
10	.544	.5264999	-1.750016E-02	-3.323868 %
20	.683	.6789999	-4.000127E-03	-.5891205 %
30	.823	.8314999	8.499861E-03	1.022232 %

90FT20S53

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.016	-2.050006E-02	-3.650006E-02	178.0485 %
10	.167	.1835	1.649995E-02	8.991801 %
20	.311	.3875	7.649997E-02	19.74193 %
30	.648	.5915	-5.650008E-02	-9.552001 %

90FT20S54

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.014	-5.600037E-03	8.399963E-03	-149.9984 %
10	.155	.1468	-8.20002E-03	-5.585845 %

	.147	-5.800037E-03	8.399963E-03	-149.9984 %
10	.155	.1468	-8.20002E-03	-5.585845 %
20	.308	.2992	-.0088	-2.941177 %
30	.443	.4516	8.600026E-03	1.904346 %

90FT20D54

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.002	-1.620001E-02	-1.820001E-02	112.3457 %
10	.073	.1456	7.260001E-02	49.86264 %
20	.398	.3074	-9.059998E-02	-29.47299 %
30	.433	.4692	3.620002E-02	7.715264 %

90FT02R95

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	8.999999E-03	8.000488E-04	-8.199951E-03	-1024.931 %
10	.127	.1336	6.600023E-03	4.940136 %
20	.255	.2664	1.140001E-02	4.279285 %
30	.409	.3992	-9.800017E-03	-2.454914 %

90FT20S53

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.005	7.529999E-02	7.029998E-02	93.35989 %
10	.154	.1311	-2.290002E-02	-17.46759 %
20	.352	.1869	-.1651	-88.33601 %
30	.125	.2427	.1177	48.49608 %

B U
7-26-90

AQC 23.5 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.034	.1338999	9.989989E-02	74.6079 %
10	.481	.3472999	-.1337001	-38.49703 %
20	.593	.5606999	-3.230012E-02	-5.760678 %
30	.708	.7740998	6.609983E-02	8.538928 %

AQC 23.5 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.297	.2506001	-4.639995E-02	-18.51554 %
10	.28	.3347001	5.470005E-02	16.343 %
20	.389	.4188	2.980003E-02	7.115575 %
30	.541	.5029	-3.810001E-02	-7.57606 %

AQC 23.5 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.301	.3088001	7.800043E-03	2.52592 %
10	.438	.4271	-1.089999E-02	-2.552093 %
20	.547	.5453999	-1.600087E-03	-.2933786 %
30	.659	.6636999	4.699886E-03	.7081343 %

BEGIN DATA FILE: AS725.DF

Begin Element - AS

	-0.002	
	0.000 AZ	
	0.003	
	0.214	NOT USED B.Y 7-25-90
	0.453	
	0.153	
	0.122	
	0.150	
	0.347	

Begin Element - AS

	0.006	
	0.000 AZ	
0	0.009	
10	0.154	Blank
20	0.330	
30	0.484	
0	0.361	
10	0.544	AQC
20	0.683	
30	0.823	
0	0.016	
10	0.167	90FT20553 (SF7262)
20	0.311	
30	0.648	
0	-0.014	
10	0.155	90FT20S54
20	0.308	
30	0.443	
0	0.002	
10	0.073	90FT20D54
20	0.398	
30	0.433	
0	0.009	
10	0.127	90FT02R95
20	0.255	
30	0.409	
0	0.005	
10	0.154	90FT20S53
20	0.352	
30	0.125	
0	0.034	
10	0.481	AQC
20	0.593	
30	0.708	
	0.205	Blank Cup
0	0.297	
10	0.280	AQC
20	0.389	
30	0.541	
0	0.301	
10	0.438	AQC
20	0.547	
30	0.659	
	-0.001	Blank Cup

B. Y
7-26-90

AAS RUN LOG

Element As

Analyst B. Yu

Date 7-25-90

Data Set SF7262

	ID	spike	comments
1	Blank	0	
2		10	
3		20	
4		30	
5	AQC	0	TV = 23.5 µg/l
6		10	
7		20	
8		30	
9	90FT20S53	0	SF7262 Rerun
10		10	
11		20	
12		30	
13	90FT20S54	0	
14		10	
15		20	
16		30	
17	90FT20D54	0	Rerun
18		10	
19		20	
20		30	B. Yu 7-26-90
21	90FT02R95	0	
22		10	
23		20	
24		30	
25	90FT20S53	0	Rerun
26		10	
27		20	

AAS RUN LOG

Element As

Analyst B. Yu

Date 7-25-90

Data Set SF7262

	ID	spike	comment
28		30	
29	AQC	0	TV = 23.5 µg/l
30		10	
31		20	
32		30	
33	Blank Cup	0	
	Start Wheel 2		
1		0	
2		10	
3		20	
4		30	B. Yu
5		0	
6		10	7-26-90
7		20	
8		30	
9		0	
10		10	
11		20	
12		30	
13		0	
14		10	
15		20	
16		30	
17		0	
18		10	
19		20	
20		30	

Element	Instrument	QC Source	
☐ Ag	☐ 5000	☒ WP 284 TM I #2	Analyst B. Yuen
☒ As	☐ 4000	☐ WP 1183 TM II #1	Date 7-25-90
☐ Cd	☒ 5000 ZE	☐ WP 1183 TM II #2	Lamp # 8327
☐ Cr	☐ 5000 ZW	☐ ICV 2	Energy 57
☐ Pb	☐ 5100	☐ SPEX II	Expansion 3
☐ Sb	☐ Varian 30	☐ NBS SRM 1643b	Stock 2-42-MD
☐ Se		☐	☐ platform ☐ MSC
☐ Tl		☐	☒ wall ☒ MSA

Blank	Slope	AQC	Digestion QC
0.26	0.01601	24.52 26.10	B. Yu 7-26-90

Blank cup absorbance
-0.001

---

* FLAMELESS * CSC VERSION 1.00 *

NAME OF ANALYST ---: BAI
DATE OF ANALYSIS --: 07-26-1990
PARAMETER NAME ----: AS
DATA SET # --------: SF7262

B. [illegible] 7-26-90

SAMPLE NO.	CONC.	R VALUE	SLOPE	
BLANK	-.5365493	.9984544	.01286	2u Limit=±2 µg/l
AQC 23.5 UG/L	24.19037	.9995241	1.124001E-02	%R=102.9 Limit=100±10%
90FT20S53	1.025645	.9994572	.01092	2u SF7262
90FT20D54	3.496183E-02	.9998686	.01144	2u
90FU20S55	1.079596	.999914	.01093	2u SF7261
90FU20S56	8.842272E-03	.9999634	.01131	2u
90FU20D56	.4295086	.9989669	.01071	2u
AQC 23.5 UG/L	29.07746	.977175	8.779999E-03	Rerun r<0.995
AQC 23.5 UG/L	24.4033	.9949494	9.719998E-03	Rerun r<0.995
AQC 23.5 UG/L	24.90948	.9971241	9.389999E-03	%R=106.0 Limit=100±10%
90FU02R96	.1380664	.9989008	.01014	2u SF7261
AQC 23.5 UG/L	24.77392	.9998376	9.510002E-03	%R=105.4 Limit=100±10%

BLANK

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	-6.900025E-03	-5.900025E-03	85.50729 %
10	.109	.1217	1.269998E-02	10.43548 %
20	.258	.2503	-7.699996E-03	-3.076307 %
30	.378	.3789	9.000003E-04	.2375298 %

AQC 23.5 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.27	.2718999	1.899898E-03	.6987491 %
10	.384	.3843	2.999604E-04	7.805371E-02 %
20	.5030001	.4967	-6.300003E-03	-1.268372 %
30	.605	.6091001	4.100084E-03	.673138 %

90FT20S53

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.007	1.120004E-02	4.200042E-03	37.50023 %
10	.125	.1204	-4.599974E-03	-3.820575 %
20	.233	.2296	-3.399983E-03	-1.480829 %
30	.335	.3388	3.799975E-03	1.121598 %

90FT20D54

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	0	3.999634E-04	3.999634E-04	100 %
10	.117	.1148	-2.200015E-03	-1.91639 %

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	0	3.999634E-04	3.999634E-04	100 %
10	.117	.1148	-2.200015E-03	-1.91639 %
20	.226	.2292	3.20001E-03	1.396165 %
30	.345	.3436	-1.399964E-03	-.40744 %

90FU20S55

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.011	1.179999E-02	7.999875E-04	6.779562 %
10	.121	.1211	9.999424E-05	8.257163E-02 %
20	.233	.2304	-2.599999E-03	-1.128472 %
30	.338	.3397	1.699984E-03	.5004369 %

90FU20S56

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	1.000061E-04	1.100006E-03	1099.939 %
10	.115	.1132	-1.800001E-03	-1.590107 %
20	.226	.2263	2.999902E-04	.1325631 %
30	.339	.3394	4.000068E-04	.117857 %

90FU20D56

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	0	4.600037E-03	4.600037E-03	100 %
10	.115	.1117	-3.299974E-03	-2.954318 %
20	.226	.2188	-7.199973E-03	-3.290664 %
30	.32	.3259	5.900026E-03	1.810379 %

B. [illegible]
7-26-90

AQC 23.5 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.236	.2553001	1.930004E-02	7.55975 %
10	.359	.3431001	-1.589996E-02	-4.634204 %
20	.457	.4309001	-2.609995E-02	-6.057078 %
30	.496	.5187	2.270001E-02	4.376328 %

AQC 23.5 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.231	.2372	6.200001E-03	2.613828 %
10	.335	.3344	-6.000102E-04	-.1794289 %
20	.449	.4316	-1.740003E-02	-4.031517 %
30	.5170001	.5288	1.179993E-02	2.231455 %

AQC 23.5 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.227	.2339	6.900028E-03	2.94999 %
10	.333	.3278	-5.199969E-03	-1.586324 %
20	.432	.4217	-1.030001E-02	-2.442497 %
30	.5070001	.5167001	9.599987E-03	1.667959 %

10	.333	.3278	-5.199969E-03	-1.586324 %
20	.432	.4217	-1.030001E-02	-2.442497 %
30	.5070001	.5156001	8.599997E-03	1.667959 %

90FU02R96

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.001	1.399994E-03	3.999939E-04	28.57111 %
10	.099	.1028	3.800005E-03	3.696503 %
20	.213	.2042	-8.799985E-03	-4.309493 %
30	.301	.3056	4.600019E-03	1.505242 %

AQC 23.5 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.235	.2356	5.999804E-04	.2546606 %
10	.33	.3307	6.99997E-04	.2116713 %
20	.429	.4258001	-3.199965E-03	-.7515182 %
30	.519	.5209001	1.900077E-03	.364768 %

B. [illegible]

7-26-90

Begin Element - AS

	-0.001	
	0.000 AZ	
0	-0.001	Blank
10	0.109	
20	0.258	
30	0.378	
0	0.270	AQC
10	0.384	
20	0.503	
30	0.605	
0	0.007	90FT20S53
10	0.125	
20	0.233	
30	0.335	
0	0.000	90FT20D54
10	0.117	
20	0.226	
30	0.345	SF7262
0	0.011	SF7261
10	0.121	90FU20S55
20	0.233	
30	0.338	
0	-0.001	90FU20S56
10	0.115	
20	0.226	
30	0.339	
0	-0.000	90FU20D56
10	0.115	
20	0.226	
30	0.320	
0	0.236	AQC
10	0.359	
20	0.457	
30	0.496'	
	0.548	NOT USED.
	0.004	
0	0.231	~~90FU02R96~~ B.Y.
10	0.335	
20	0.449	AQC
30	0.517	
0	0.227	AQC
10	0.333	
20	0.432	
30	0.507	
	-0.001	Blank cup
0	0.001	90FU02R96
10	0.099	
20	0.213	
30	0.301	
0	0.235	AQC
10	0.330	
20	0.429	
30	0.519	
	0.001	Blank cup
	0.078	NOT USED B.Y.
	0.174	
	0.255	
	0.367	
	-0.002	

B. Y.
7-26-90

AAS RUN LOG

Element As

Analyst B. Chen

Date 7-25-90

Data Set SF7262

	ID	spike	comment:
1	Blank	0	
2		10	
3		20	
4		30	
5	AQC	0	TV=23.5 µg/l
6		10	
7		20	
8		30	
9	90FT20S53	0	SF7262
10		10	
11		20	
12		30	
13	90FT20D54	0	
14		10	
15		20	
16		30	
17	90FU20S55	0	SF7261
18		10	
19		20	
20		30	
21	90FU20S56	0	B. Chen
22		10	7-26-90
23		20	
24		30	
25	90FU20D56	0	
26		10	
27		20	

AAS RUN LOG

Element As

Analyst B. Yuen

Date 7-25-90

Data Set SF7262

	ID	spike	comment
28		30	
29	AQC	0	TV=23.5 µg/l
30		10	
31		20	
32		30	
33	Blank Cup	0	
	Start Wheel 2		
1	90F402R96	0	SF7261
2		10	
3		20	
4		30	
5	AQC	0	TV=23.5 µg/l
6		10	
7		20	
8		30	
9	Blank cup	0	
10		10	
11		20	B. Yuen
12		30	7-26-90
13		0	
14		10	
15		20	
16		30	
17		0	
18		10	
19		20	
20		30	

Element	Instrument	QC Source	
☐ Ag	☐ 5000	☒ WP 284 TM I #2	Analyst B. Yuen
☒ As	☐ 4000	☐ WP 1183 TM II #1	Date 7-25-90
☐ Cd	☒ 5000 ZE	☐ WP 1183 TM II #2	Lamp # 832.7
☐ Cr	☐ 5000 ZW	☐ ICV 2	Energy 57
☐ Pb	☐ 5100	☐ SPEX II	Expansion 3
☐ Sb	☐ Varian 30	☐ NBS SRM 1643b	Stock 2-42-MD
☐ Se		☐	☐ platform ☐ MSC
☐ Tl		☐	☒ wall ☒ MSA

Blank	Slope	AQC	Digestion QC
-0.54	0.01286	24.19	
		24.91	
		24.77	
			B. Yuen 7-26-90

Blank cup absorbance
-0.001
0.001

SF7262

Perkin-Elmer Model 5100 PC
Report Of Analytical Results
July 18, 1990

Data File: [redacted] DAT
Data Colle[redacted] 18/90 At: 10:42:59 By: J[redacted]G

	Cd ug/L	
Blank	0.000	
Standard 1	2.000	
Standard 2	1.500	
Standard 3	1.000	
Standard 4	0.500	
AQC ~~22.4~~ 0.975 UG/L	1.058	%R = 108.5 Limit = 100 ± 10%
CCB1	-0.035	0.24 Limit = ~~[illegible]~~ ± 0.2 µg/l B.y.
90FT20S53	0.079	> 102.8 % R
90FT20S53 + 1	1.107	
90FT20S54	-0.063	> 111.5 % R } sample data are less than IDL and are acceptable.
90FT20S54 + 1	0.977	
90FT20D54	-0.010	> 110.7 % R
90FT20D54 + 1	1.097	
90FT02R95	-0.014	> 102.2 % R
90FT02R95 + 1	1.008	
90FU20S55	0.002	> 107.6 % R
90FU20S55 + 1	1.074	
AQC ~~22.4~~ 0.975 UG/L	1.070	%R = 109.7 Limit = 100 ± 10%
CCB2	0.052	0.24 Limit = ±0.2 µg/l
90FU20S56	-0.020	> 111.9 % R } sample data are less than IDL and are acceptable.
90FU20S56 + 1	1.099	
90FU20D56	0.032	> 110.6 % R
90FU20D56 + 1	1.074	
90FU02R96	-0.003	> 99.7 % R
90FU02R96 + 1	0.994	
CCB3	-0.007	0.24 Limit = ±0.2 µg/l
AQC ~~22.4~~ 0.975 UG/L	1.038	%R = 106.4 Limit = 100 ± 10%

SF7264

SF72[illegible]

Analyst: _____ Supervisor: _____

Element File: CDMSC.GEL
Date: 07/18/90
Data Storage File: CDBY718.DAT
Technique: HGA

Element: Cd
Time: 10:40
ID/Weight File: CD718.A60
Calibration Type: Linear

ID: Blank Seq. No.: 00001 A/S Pos.: 1 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 1
Replicate 1 Time: 10:42
Peak Area (A-s): 0.002 Peak Height (A): 0.004
Background Pk Area (A-s): 0.153 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.002

Auto-zero performed.

ID: Standard 1 Seq. No.: 00002 A/S Pos.: 2 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 2
Replicate 1 Time: 10:46
Peak Area (A-s): 0.097 Peak Height (A): 0.141
Background Pk Area (A-s): 0.179 Background Pk Height (A): 0.099
Blank Corrected Pk Area (A-s): 0.096

Standard number 1 applied. [2.000]
Correlation coefficient: 1.00000 Slope: 0.0478 Int: 0.000

ID: Standard 2 Seq. No.: 00003 A/S Pos.: 3 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 3
Replicate 1 Time: 10:49
Peak Area (A-s): 0.074 Peak Height (A): 0.113
Background Pk Area (A-s): 0.157 Background Pk Height (A): 0.082
Blank Corrected Pk Area (A-s): 0.073
Concentration (ug/L): 1.516

Standard number 2 applied. [1.500]
Correlation coefficient: 0.99996 Slope: 0.0480 Int: 0.000

ID: Standard 3 Seq. No.: 00004 A/S Pos.: 4 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 4
Replicate 1 Time: 10:52
Peak Area (A-s): 0.049 Peak Height (A): 0.076
Background Pk Area (A-s): 0.147 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 0.984

Standard number 3 applied. [1.000]
Correlation coefficient: 0.99992 Slope: 0.0480 Int: -0.000

ID: Standard 4 Seq. No.: 00005 A/S Pos.: 5 Date: 07/18/90

B. Green
7-18-90

uL dispensed: 5 from 36, 15 from 5
Replicate 1 Time: 10:55
Peak Area (A-s): 0.029 Peak Height (A): 0.044
Background Pk Area (A-s): 0.139 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L): 0.575

Standard number 4 applied. [0.500]
Correlation coefficient: 0.99911 Slope: 0.0473 Int: 0.001

~~~~~~

ID: AQC ~~22.4~~ 0.975 B.Y. UG/L Seq. No.: 00006 A/S Pos.: 37 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 37
Replicate 1 Time: 10:58
Peak Area (A-s): 0.053 Peak Height (A): 0.077
Background Pk Area (A-s): 0.145 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.051
Concentration (ug/L): 1.058

%R = 108.5

Check sample is within range .8775 - 1.0725

Limit = 100 ± 10%

~~~~~~

ID: CCB1 Seq. No.: 00007 A/S Pos.: 6 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 6
Replicate 1 Time: 11:01
Peak Area (A-s): 0.001 Peak Height (A): 0.004
Background Pk Area (A-s): 0.135 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.035

0.2U Limit = ±0.2 µg/l

~~~~~~

ID: 90FT20S53 Seq. No.: 00008 A/S Pos.: 7 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 7
Replicate 1 Time: 11:05
Peak Area (A-s): 0.007 Peak Height (A): 0.006
Background Pk Area (A-s): 0.373 Background Pk Height (A): 0.122
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.079

~~SF7262~~ SF7261
B.Y.

~~~~~~

ID: 90FT20S53 + 1 Seq. No.: 00009 A/S Pos.: 8 Date: 07/18/90

B. Yuen
7-18-90

uL dispensed: 5 from 36, 15 from 8
Replicate 1 Time: 11:08
Peak Area (A-s): 0.055 Peak Height (A): 0.076
Background Pk Area (A-s): 0.400 Background Pk Height (A): 0.124
Blank Corrected Pk Area (A-s): 0.054
Concentration (ug/L): 1.107

%R = 102.8

~~~~~~

ID: 90FT20S54 Seq. No.: 00010 A/S Pos.: 9 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 9
Replicate 1 Time: 11:11
Peak Area (A-s): -0.000 Peak Height (A): 0.003
Background Pk Area (A-s): 0.460 Background Pk Height (A): 0.179
~~~~~~

Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.063

~~~~~~

ID: 90FT20S54 + 1 Seq. No.: 00011 A/S Pos.: 10 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 10
Replicate 1 Time: 11:15
Peak Area (A-s): 0.049 Peak Height (A): 0.074
Background Pk Area (A-s): 0.472 Background Pk Height (A): 0.179
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 0.977 %R=111.5 sample data is less than IDL and is acceptable.

~~~~~~

ID: 90FT20D54 Seq. No.: 00012 A/S Pos.: 11 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 11
Replicate 1 Time: 11:18
Peak Area (A-s): 0.002 Peak Height (A): 0.005
Background Pk Area (A-s): 0.448 Background Pk Height (A): 0.169
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.010

~~~~~~

ID: 90FT20D54 + 1 Seq. No.: 00013 A/S Pos.: 12 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 12
Replicate 1 Time: 11:21
Peak Area (A-s): 0.055 Peak Height (A): 0.080
Background Pk Area (A-s): 0.469 Background Pk Height (A): 0.178
Blank Corrected Pk Area (A-s): 0.053
Concentration (ug/L): 1.097 %R=110.7 sample data is less than IDL and is acceptable.

~~~~~~

ID: 90FT02R95 Seq. No.: 00014 A/S Pos.: 13 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 13
Replicate 1 Time: 11:24
Peak Area (A-s): 0.002 Peak Height (A): 0.005
Background Pk Area (A-s): 0.128 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.014

~~~~~~

ID: 90FT02R95 + 1 Seq. No.: 00015 A/S Pos.: 14 Date: 07/18/90

B. [signature] 7-18-90

uL dispensed: 5 from 36, 15 from 14
Replicate 1 Time: 11:28
Peak Area (A-s): 0.051 Peak Height (A): 0.079
Background Pk Area (A-s): 0.151 Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.049
Concentration (ug/L): 1.008 %R=102.2

~~~~~~

ID: 90FU20S55 Seq. No.: 00016 A/S Pos.: 15 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 15
Replicate 1 Time: 11:31
Peak Area (A-s): 0.003 Peak Height (A): 0.005

SF7262

Background Pk Area (A-s): 0.398 Background Pk Height (A): 0.132
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.002

~~~~~~

ID: 90FU20S55 + 1 Seq. No.: 00017 A/S Pos.: 16 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 16
Replicate 1 Time: 11:34
Peak Area (A-s): 0.054 Peak Height (A): 0.075
Background Pk Area (A-s): 0.415 Background Pk Height (A): 0.131
Blank Corrected Pk Area (A-s): 0.052
Concentration (ug/L): 1.074 %R = 107.6

~~~~~~

ID: AQC ~~22.4~~ 0.975 UG/L B.Y. Seq. No.: 00018 A/S Pos.: 37 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 37
Replicate 1 Time: 11:37
Peak Area (A-s): 0.053 Peak Height (A): 0.084
Background Pk Area (A-s): 0.150 Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.052
Concentration (ug/L): 1.070 %R = 109.7

Check sample is within range .8775 - 1.0725 Limit = 100 ± 10%

~~~~~~

ID: CCB2 Seq. No.: 00019 A/S Pos.: 17 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 17
Replicate 1 Time: 11:40
Peak Area (A-s): 0.005 Peak Height (A): 0.007
Background Pk Area (A-s): 0.125 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.052 0.2U Limit = ± 0.2 ug/l

~~~~~~

ID: 90FU20S56 Seq. No.: 00020 A/S Pos.: 18 Date: 07/18/90

B. Y[illegible]
7-18-90

uL dispensed: 5 from 36, 15 from 18
Replicate 1 Time: 11:44
Peak Area (A-s): 0.002 Peak Height (A): 0.006
Background Pk Area (A-s): 0.374 Background Pk Height (A): 0.124
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.020

~~~~~~

ID: 90FU20S56 + 1 Seq. No.: 00021 A/S Pos.: 19 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 19
Replicate 1 Time: 11:47
Peak Area (A-s): 0.055 Peak Height (A): 0.075
Background Pk Area (A-s): 0.402 Background Pk Height (A): 0.128
Blank Corrected Pk Area (A-s): 0.053
Concentration (ug/L): 1.099 %R = 111.9 sample data is less than IDL and is acceptable.

~~~~~~

ID: 90FU20D56 Seq. No.: 00022 A/S Pos.: 20 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 20
Replicate 1 Time: 11:50
Peak Area (A-s): 0.004 Peak Height (A): 0.004
Background Pk Area (A-s): 0.386 Background Pk Height (A): 0.128
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.032

~~~~~~

ID: 90FU20D56 + 1 Seq. No.: 00023 A/S Pos.: 21 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 21
Replicate 1 Time: 11:53
Peak Area (A-s): 0.054 Peak Height (A): 0.074
Background Pk Area (A-s): 0.406 Background Pk Height (A): 0.130
Blank Corrected Pk Area (A-s): 0.052
Concentration (ug/L): 1.074 %R=110.6 sample data is less than IDL and is acceptable.

~~~~~~

ID: 90FU02R96 Seq. No.: 00024 A/S Pos.: 22 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 22
Replicate 1 Time: 11:56
Peak Area (A-s): 0.003 Peak Height (A): 0.004
Background Pk Area (A-s): 0.130 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.003

~~~~~~

ID: 90FU02R96 + 1 Seq. No.: 00025 A/S Pos.: 23 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 23
Replicate 1 Time: 11:59
Peak Area (A-s): 0.050 Peak Height (A): 0.077
Background Pk Area (A-s): 0.148 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 0.994 %R=99.7

~~~~~~

ID: CCB3 Seq. No.: 00026 A/S Pos.: 24 Date: 07/18/90

B [signature] 7-18-90

uL dispensed: 5 from 36, 15 from 24
Replicate 1 Time: 12:02
Peak Area (A-s): 0.003 Peak Height (A): 0.005
Background Pk Area (A-s): 0.125 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.007 0.2 u Limit=±0.2 µg/l

~~~~~~

ID: AQC ~~22.4~~ 0.975 UG/L Seq. No.: 00027 A/S Pos.: 37 Date: 07/18/90

uL dispensed: 5 from 36, 15 from 37
Replicate 1 Time: 12:13
Peak Area (A-s): 0.052 Peak Height (A): 0.079
Background Pk Area (A-s): 0.175 Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.050
Concentration (ug/L): 1.038

Check sample is within range .8775 - 1.0725

%R= 106.4
Limit = 100±10%
~~~~~~

Element	Instrument	QC Source	
☐ Ag	☐ 5000	☒ WP 284 TM I #2	Analyst B. Yuen
☐ As	☐ 4000	☐ WP 1183 TM II #1	Date 7-18-90
☒ Cd	☐ 5000 ZE	☐ WP 1183 TM II #2	Lamp # 382097
☐ Cr	☐ 5000 ZW	☐ ICV 2	Energy 50
☐ Pb	☒ 5100	☐ SPEX II	Expansion 1
☐ Sb	☐ Varian 30	☐ NBS SRM 1643b	Stock 2-126-MD
☐ Se		☐	☒ platform ☒ MSC
☐ Tl		☐	☐ wall ☐ MSA

Blank	Slope	AQC	Digestion QC
-0.035	0.0473	1.058	
0.052		1.070	
-0.007		1.038	
			B. Yuen 7-18-90

Blank cup absorbance

SF7262

Perkin-Elmer Model 5100 PC
Report Of Analytical Results
July 17, 1990

Data File: PBBY716.DAT
Data Collected: 07/16/90 At: 11:45:45 By: **bai**

	Pb ug/L	
Blank	0.00	
Standard 1	40.00	
Standard 2	30.00	
Standard 3	20.00	
Standard 4	10.00	
AQC 22.4 UG/L	22.43	%R=100.1 Limit=100±10%
CCB1	-1.29	2u Limit=±2 µg/l
90FT20S53	-2.24	Rerun
90FT20S53 + 20	19.61	
90FT20S54	-1.36	%R=95.0 SF7262
90FT20S54 + 20	17.65	
90FT20D54	-1.31	%R=96.9
90FT20D54 + 20	18.07	
90FT02R95	-2.64	Rerun
90FT02R95 + 20	20.69	
90FU20S55	-1.08	%R=108.8 SF7261
90FU20S55 + 20	20.68	
AQC 22.4 UG/L	20.62	%R=92.0 Limit=100±10%
CCB2	-1.16	2u Limit=±2 µg/l
90FU20S56	1.72	Rerun, CCB3 is out.
90FU20S56 + 20	25.11	
90FU20D56	4.45	
90FU20D56 + 20	26.42	
90FU02R96	-2.09	
90FU02R96 + 20	19.29	
AQC 22.4 UG/L	22.60	
CCB3	-3.65	

Analyst: B. Yue 7-17-90 Supervisor: _____

uL dispensed: 5 from 36, 15 from 5

~~~~~~

ID: Blank   Seq. No.: 00006   A/S Pos.: 1   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 1
Replicate 1 (Peak Stored)   Time: 12:00
Peak Area (A-s): 0.012   Peak Height (A): 0.020
Background Pk Area (A-s): 0.055   Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -0.97

Auto-zero performed.

~~~~~~

ID: Standard 1   Seq. No.: 00007   A/S Pos.: 2   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 2
Replicate 1 (Peak Stored)   Time: 12:03
Peak Area (A-s): 0.109   Peak Height (A): 0.227
Background Pk Area (A-s): 0.084   Background Pk Height (A): 0.082
Blank Corrected Pk Area (A-s): 0.097
Concentration (ug/L): 43.76

Standard number 1 applied. [40.00]
Correlation coefficient: 1.00000   Slope: 0.0024   Int: 0.000

~~~~~~

ID: Standard 2   Seq. No.: 00008   A/S Pos.: 3   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 3
Replicate 1 (Peak Stored)   Time: 12:06
Peak Area (A-s): 0.083   Peak Height (A): 0.175
Background Pk Area (A-s): 0.071   Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.071
Concentration (ug/L): 29.45

B. [signature]
7-17-90

Standard number 2 applied. [30.00]
Correlation coefficient: 0.99989   Slope: 0.0024   Int: -0.000

~~~~~~

ID: Standard 3   Seq. No.: 00009   A/S Pos.: 4   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 4
Replicate 1 (Peak Stored)   Time: 12:09
Peak Area (A-s): 0.062   Peak Height (A): 0.121
Background Pk Area (A-s): 0.063   Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.051
Concentration (ug/L): 21.08

Standard number 3 applied. [20.00]
Correlation coefficient: 0.99939   Slope: 0.0024   Int: 0.001

~~~~~~

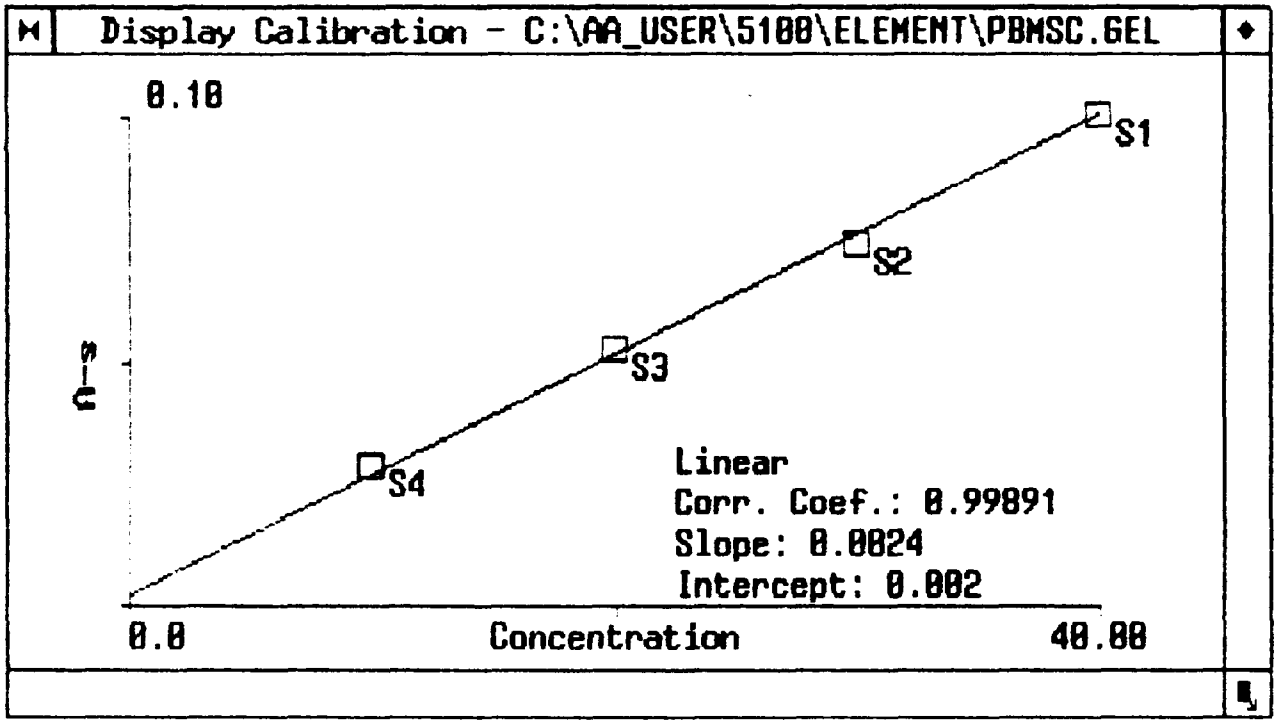
ID: Standard 4   Seq. No.: 00010   A/S Pos.: 5   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 5
Replicate 1 (Peak Stored)   Time: 12:13
Peak Area (A-s): 0.039   Peak Height (A): 0.072
Background Pk Area (A-s): 0.050   Background Pk Height (A): 0.028
~~~~~~

Blank Corrected Pk Area (A-s): 0.028
Concentration (ug/L): 11.24

Standard number 4 applied. [10.00]
Correlation coefficient: 0.99891 Slope: 0.0024 Int: 0.002

B. [illegible]
7-17-90


Display Calibration - C:\AA_USER\5100\ELEMENT\PBMSC.GEL
0.10
S1
S2
S3
S4
Linear
Corr. Coef.: 0.99891
Slope: 0.0024
Intercept: 0.002
0.0
Concentration
40.00

B L Jun
7-17-90

~~~~~~

ID: AQC 22.4 UG/L   Seq. No.: 00011   A/S Pos.: 37   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 37
Replicate 1 (Peak Stored)   Time: 12:17
Peak Area (A-s): 0.067   Peak Height (A): 0.138 -
Background Pk Area (A-s): 0.064   Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.055
Concentration (ug/L): 22.43

%R = 100.1

Check sample is within range 20.16 - 24.64

Limit = 100 ± 10 %

~~~~~~

ID: CCB1   Seq. No.: 00012   A/S Pos.: 6   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 6
Replicate 1 (Peak Stored)   Time: 12:20
Peak Area (A-s): 0.010   Peak Height (A): 0.017
Background Pk Area (A-s): 0.045   Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.29

2u   Limit = ±2 μg/l

~~~~~~

ID: 90FT20S53   Seq. No.: 00013   A/S Pos.: 7   Date: 07/16/90

SF7262

uL dispensed: 5 from 36, 15 from 7
Replicate 1 (Peak Stored)   Time: 12:23
Peak Area (A-s): 0.008   Peak Height (A): 0.020
Background Pk Area (A-s): 0.114   Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -2.24

Rerun

~~~~~~

ID: 90FT20S53 + 20   Seq. No.: 00014   A/S Pos.: 8   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 8
Replicate 1 (Peak Stored)   Time: 12:26
Peak Area (A-s): 0.060   Peak Height (A): 0.129
Background Pk Area (A-s): 0.137   Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 19.61

~~~~~~

ID: 90FT20S54   Seq. No.: 00015   A/S Pos.: 9   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 9   B. [signature]
Replicate 1 (Peak Stored)   Time: 12:30
Peak Area (A-s): 0.010   Peak Height (A): 0.019
Background Pk Area (A-s): 0.174   Background Pk Height (A): 0.065   7-17-90
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.36

~~~~~~

ID: 90FT20S54 + 20   Seq. No.: 00016   A/S Pos.: 10   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 10
Replicate 1 (Peak Stored)   Time: 12:33
Peak Area (A-s): 0.055   Peak Height (A): 0.126

Background Pk Area (A-s): 0.199　　Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.044
Concentration (ug/L): 17.65　　%R = 95.0

~~~~~~

ID: 90FT20D54　　Seq. No.: 00017　　A/S Pos.: 11　　Date: 07/16/90

uL dispensed: 5 from 36, 15 from 11
Replicate 1 (Peak Stored)　　Time: 12:36
Peak Area (A-s): 0.010　　Peak Height (A): 0.020
Background Pk Area (A-s): 0.170　　Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.31

~~~~~~

ID: 90FT20D54 + 20　　Seq. No.: 00018　　A/S Pos.: 12　　Date: 07/16/90

uL dispensed: 5 from 36, 15 from 12
Replicate 1 (Peak Stored)　　Time: 12:40
Peak Area (A-s): 0.056　　Peak Height (A): 0.126
Background Pk Area (A-s): 0.187　　Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 18.07　　%R = 96.9

~~~~~~

ID: 90FT02R95　　Seq. No.: 00019　　A/S Pos.: 13　　Date: 07/16/90

uL dispensed: 5 from 36, 15 from 13
Replicate 1 (Peak Stored)　　Time: 12:43
Peak Area (A-s): 0.007　　Peak Height (A): 0.017
Background Pk Area (A-s): 0.046　　Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -2.64

~~~~~~

ID: 90FT02R95 + 20　　Seq. No.: 00020　　A/S Pos.: 14　　Date: 07/16/90

B. Yue
7-17-90

uL dispensed: 5 from 36, 15 from 14
Replicate 1 (Peak Stored)　　Time: 12:46
Peak Area (A-s): 0.063　　Peak Height (A): 0.124
Background Pk Area (A-s): 0.062　　Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.051
Concentration (ug/L): 20.69　　Rerun

~~~~~~

ID: 90FU20S55　　Seq. No.: 00021　　A/S Pos.: 15　　Date: 07/16/90

SF7261

uL dispensed: 5 from 36, 15 from 15
Replicate 1 (Peak Stored)　　Time: 12:49
Peak Area (A-s): 0.011　　Peak Height (A): 0.016
Background Pk Area_(A-s): 0.141　　Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.08

~~~~~~

ID: 90FU20S55 + 20　　Seq. No.: 00022　　A/S Pos.: 16　　Date: 07/16/90

uL dispensed: 5 from 36, 15 from 16
Replicate 1 (Peak Stored)　　Time: 12:53

Peak Area (A-s): 0.063 | Peak Height (A): 0.129
Background Pk Area (A-s): 0.160 | Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.051
Concentration (ug/L): 20.68

%R = 108.8

~~~~~~

ID: AQC 22.4 UG/L Seq. No.: 00023 A/S Pos.: 37 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 37
Replicate 1 (Peak Stored) | Time: 12:56
Peak Area (A-s): 0.062 | Peak Height (A): 0.135
Background Pk Area (A-s): 0.065 | Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.051
Concentration (ug/L): 20.62

%R = 92.0

Check sample is within range 20.16 - 24.64

Limit = 100±10%

~~~~~~

ID: CCB2 Seq. No.: 00024 A/S Pos.: 17 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 17
Replicate 1 (Peak Stored) | Time: 12:59
Peak Area (A-s): 0.011 | Peak Height (A): 0.019
Background Pk Area (A-s): 0.043 | Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.16

2u Limit = ±2 µg/l

~~~~~~

ID: 90FU20S56 Seq. No.: 00025 A/S Pos.: 18 Date: 07/16/90

NOT USED

uL dispensed: 5 from 36, 15 from 18
Replicate 1 (Peak Stored) | Time: 13:02
Peak Area (A-s): 0.018 | Peak Height (A): 0.039
Background Pk Area (A-s): 0.154 | Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.72

~~~~~~

ID: 90FU20S56 + 20 Seq. No.: 00026 A/S Pos.: 19 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 19
Replicate 1 (Peak Stored) | Time: 13:05
Peak Area (A-s): 0.073 | Peak Height (A): 0.147
Background Pk Area (A-s): 0.158 | Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.061
Concentration (ug/L): 25.11

B. [signature]
7-17-90

~~~~~~

ID: 90FU20D56 Seq. No.: 00027 A/S Pos.: 20 Date: 07/16/90

NOT USED

uL dispensed: 5 from 36, 15 from 20
Replicate 1 (Peak Stored) | Time: 13:09
Peak Area (A-s): 0.024 | Peak Height (A): 0.055
Background Pk Area (A-s): 0.155 | Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 4.45

~~~~~~

ID: 90FU20D56 + 20 Seq. No.: 00028 A/S Pos.: 21 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 21
Replicate 1 (Peak Stored) Time: 13:12
Peak Area (A-s): 0.076 Peak Height (A): 0.161
Background Pk Area (A-s): 0.177 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.065
Concentration (ug/L): 26.42

~~~~~~

ID: 90FU02R96 Seq. No.: 00029 A/S Pos.: 22 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 22 NOT USED
Replicate 1 (Peak Stored) Time: 13:15
Peak Area (A-s): 0.009 Peak Height (A): 0.018
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -2.09

~~~~~~

ID: 90FU02R96 + 20 Seq. No.: 00030 A/S Pos.: 23 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 23
Replicate 1 (Peak Stored) Time: 13:18
Peak Area (A-s): 0.059 Peak Height (A): 0.128
Background Pk Area (A-s): 0.060 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 19.29

~~~~~~

ID: AQC 22.4 UG/L Seq. No.: 00031 A/S Pos.: 37 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 37
Replicate 1 (Peak Stored) Time: 13:21
Peak Area (A-s): 0.067 Peak Height (A): 0.140
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.055
Concentration (ug/L): 22.60

Check sample is within range 20.16 - 24.64

~~~~~~

ID: CCB3 Seq. No.: 00032 A/S Pos.: 24 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 24
Replicate 1 (Peak Stored) Time: 13:24
Peak Area (A-s): 0.005 Peak Height (A): 0.017
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): -0.007
Concentration (ug/L): -3.65

B. Yue
7-17-90

Element	Instrument	QC Source	
☐ Ag	☐ 5000	☒ WP 284 TM I #2	Analyst B. Yuen
☐ As	☐ 4000	☐ WP 1183 TM II #1	Date 7-16-90
☐ Cd	☐ 5000 ZE	☐ WP 1183 TM II #2	Lamp # 382152
☐ Cr	☐ 5000 ZW	☐ ICV 2	Energy 47
☒ Pb	☒ 5100	☐ SPEX II	Expansion 1
☐ Sb	☐ Varian 30	☐ NBS SRM 1643b	Stock 2-53-MD
☐ Se		☐	☒ platform ☒ MSC
☐ Tl		☐	☐ wall ☐ MSA

Blank	Slope	AQC	Digestion QC
-1.29	0.0024	22.43	
-1.16		20.62	
			B. Yuen 7-17-90

Blank cup absorbance

SF7262

Perkin-Elmer Model 5100 PC
Report Of Analytical Results
July 17, 1990

Data File: PB71690.DAT
Data Collected: 07/16/90 At: 13:46:17 By: bai

	Pb	
Blank	0.00	
Standard 1	40.00	
Standard 2	30.00	
Standard 3	20.00	
Standard 4	10.00	
AQC 22.4 UG/L	22.43	%R = 100.1 Limit = 100 ± 10 %
CCB1	0.79	2u Limit = ± 2 µg/l
90FT20S53	0.82	%R = 102.8
90FT20S53 + 20	21.38	
90FT02R95	1.67	%R = 93.4
90FT02R95 + 20	20.34	SF7262
~~90FU20S56~~ 90FU02R96	1.13	%R = 92.5 SF7261
~~90FU20S56 + 20~~ 90FU02R96+20	19.63	
90FU20D56	5.57	%R = 99.8
90FU20D56 + 20	25.53	
~~90FU02R96~~ 90FU20S56	5.71	%R = 104.2
~~90FU02R96 + 20~~ 90FU20S56+20	26.55	
AQC 22.4 UG/L	23.62	%R = 105.4 Limit = 100 ± 10 %
CCB2	0.20	2u Limit = ± 2 µg/l
	1.06	NOT USED.
	19.86	
	25.18	
	19.62	
90FU02R96	-0.14	
90FU02R96 + 20	21.43	NOT USED.
90FU20S56	4.62	FOR VERIFICATION ONLY
90FU20S56 + 20	24.83	
AQC 22.4 UG/L	23.69	
CCB3	-2.36	

Analyst: B. Yuen 7-17-90 Supervisor: _____

~~~~~~

ID: Blank Seq. No.: 00007 A/S Pos.: 1 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 1

~~~~~~

ID: Blank Seq. No.: 00008 A/S Pos.: 1 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 1
Replicate 1 (Peak Stored) Time: 14:04
Peak Area (A-s): 0.008 Peak Height (A): 0.020
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -1.11

Auto-zero performed.

~~~~~~

ID: Standard 1 Seq. No.: 00009 A/S Pos.: 2 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 2
Replicate 1 (Peak Stored) Time: 14:07
Peak Area (A-s): 0.111 Peak Height (A): 0.230
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.083
Blank Corrected Pk Area (A-s): 0.103
Concentration (ug/L): 40.92

Standard number 1 applied. [40.00]
Correlation coefficient: 1.00000 Slope: 0.0026 Int: 0.000

~~~~~~

ID: Standard 2 Seq. No.: 00010 A/S Pos.: 3 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 3
Replicate 1 (Peak Stored) Time: 14:10
Peak Area (A-s): 0.087 Peak Height (A): 0.1[illegible]
Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.079
Concentration (ug/L): 30.73

B. [illegible]
7-17-90

Standard number 2 applied. [30.00]
Correlation coefficient: 0.99981 Slope: 0.0026 Int: 0.000

~~~~~~

ID: Standard 3 Seq. No.: 00011 A/S Pos.: 4 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 4
Replicate 1 (Peak Stored) Time: 14:13
Peak Area (A-s): 0.058 Peak Height (A): 0.128
Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.050
Concentration (ug/L): 19.10

Standard number 3 applied. [20.00]
Correlation coefficient: 0.99947 Slope: 0.0026 Int: -0.000

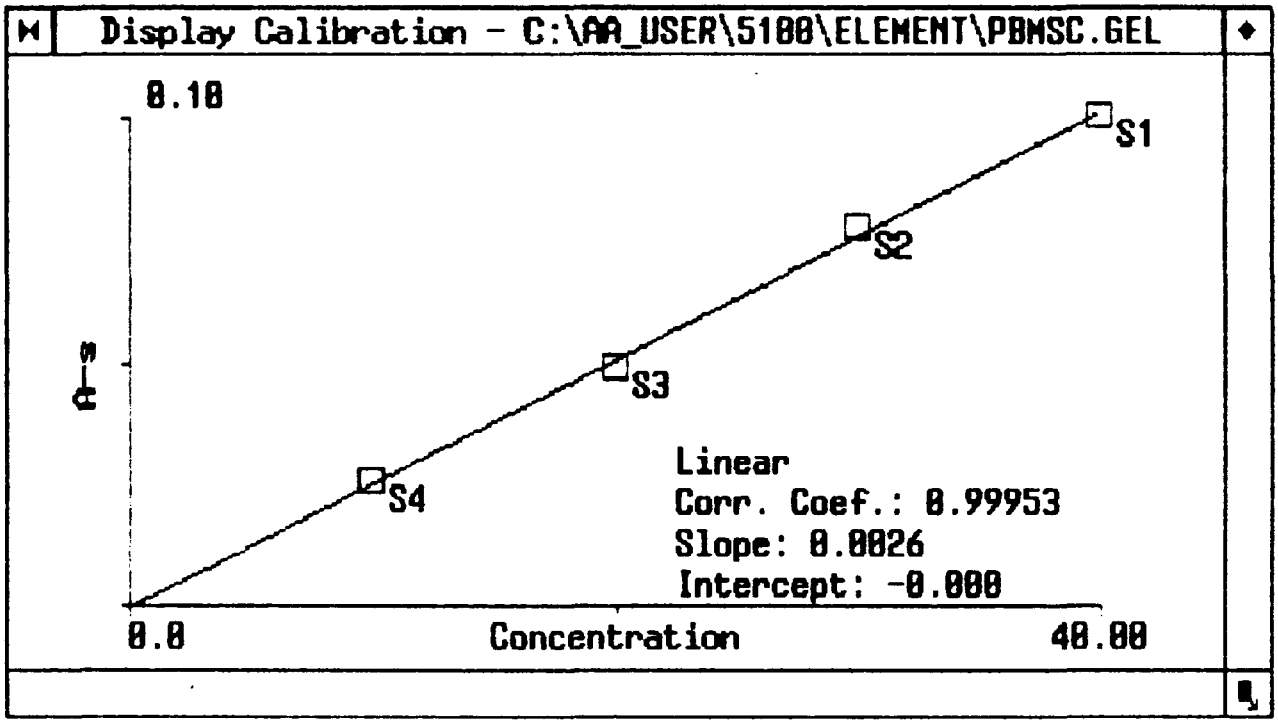
~~~~~~

ID: Standard 4 Seq. No.: 00012 A/S Pos.: 5 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 5
Replicate 1 (Peak Stored) Time: 14:16
Peak Area (A-s): 0.034 Peak Height (A): 0.074
Background Pk Area (A-s): 0.053 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.026
Concentration (ug/L): 10.13

Standard number 4 applied. [10.00]
Correlation coefficient: 0.99953 Slope: 0.0026 Int: -0.000

B. Green
7-17-90



B. L Jones
7-17-90

~~~~~~

ID: AQC 22.4 UG/L   Seq. No.: 00013   A/S Pos.: 37   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 37
Replicate 1 (Peak Stored)   Time: 14:20
Peak Area (A-s): 0.066   Peak Height (A): 0.140
Background Pk Area (A-s): 0.065   Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.058
Concentration (ug/L): 22.43

Check sample is within range 20.16 - 24.64

~~~~~~

ID: CCB1   Seq. No.: 00014   A/S Pos.: 6   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 6
Replicate 1 (Peak Stored)   Time: 14:24
Peak Area (A-s): 0.010   Peak Height (A): 0.016
Background Pk Area (A-s): 0.040   Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.79

~~~~~~

ID: 90FT20S53   Seq. No.: 00015   A/S Pos.: 7   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 7
Replicate 1 (Peak Stored)   Time: 14:27
Peak Area (A-s): 0.010   Peak Height (A): 0.020
Background Pk Area (A-s): 0.130   Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.82

~~~~~~

ID: 90FT20S53 + 20   Seq. No.: 00016   A/S Pos.: 8   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 8   B. Yuen
Replicate 1 (Peak Stored)   Time: 14:30
Peak Area (A-s): 0.063   Peak Height (A): 0.129   7-17-90
Background Pk Area (A-s): 0.150   Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.055
Concentration (ug/L): 21.38

~~~~~~

ID: 90FT02R95   Seq. No.: 00017   A/S Pos.: 9   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 9
Replicate 1 (Peak Stored)   Time: 14:33
Peak Area (A-s): 0.012   Peak Height (A): 0.018
Background Pk Area (A-s): 0.044   Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.67

~~~~~~

ID: 90FT02R95 + 20   Seq. No.: 00018   A/S Pos.: 10   Date: 07/16/90

uL dispensed: 5 from 36, 15 from 10
Replicate 1 (Peak Stored)   Time: 14:37
Peak Area (A-s): 0.060   Peak Height (A): 0.130

Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.052
Concentration (ug/L): 20.34

ID: ~~90FU20S56~~ 90FU02R96 B.Y. Seq. No.: 00019 A/S Pos.: 11 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 11
Replicate 1 (Peak Stored) Time: 14:40
Peak Area (A-s): 0.011 Peak Height (A): 0.018
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 1.13

ID: ~~90FU20S56~~ + 20 90FU02R96 B.Y. Seq. No.: 00020 A/S Pos.: 12 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 12
Replicate 1 (Peak Stored) Time: 14:43
Peak Area (A-s): 0.058 Peak Height (A): 0.127
Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.050
Concentration (ug/L): 19.63

ID: 90FU20D56 Seq. No.: 00021 A/S Pos.: 13 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 13
Replicate 1 (Peak Stored) Time: 14:47
Peak Area (A-s): 0.022 Peak Height (A): 0.042
Background Pk Area (A-s): 0.157 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.014
Concentration (ug/L): 5.57

ID: 90FU20D56 + 20 Seq. No.: 00022 A/S Pos.: 14 Date: 07/16/90

B. Yuen
7-17-90

uL dispensed: 5 from 36, 15 from 14
Replicate 1 (Peak Stored) Time: 14:50
Peak Area (A-s): 0.074 Peak Height (A): 0.153
Background Pk Area (A-s): 0.173 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.066
Concentration (ug/L): 25.53

ID: ~~90FU02R96~~ 90FU20S56 B.Y. Seq. No.: 00023 A/S Pos.: 15 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 15
Replicate 1 (Peak Stored) Time: 14:53
Peak Area (A-s): 0.022 Peak Height (A): 0.053
Background Pk Area (A-s): 0.157 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.014
Concentration (ug/L): 5.71

ID: ~~90FU02R96~~ + 20 90FU20S56 B.Y. Seq. No.: 00024 A/S Pos.: 16 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 16
Replicate 1 (Peak Stored) Time: 14:56

uL dispensed: 5 from 36, 15 from 37

ID: AQC 22.4 UG/L Seq. No.: 00025 A/S Pos.: 37 Date: 07/16/90

Replicate 1 (Peak Stored) Time: 15:03
Peak Area (A-s): 0.069 Peak Height (A): 0.142
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.061
Concentration (ug/L): 23.62

Check sample is within range 20.16 - 24.64

ID: CCB2 Seq. No.: 00026 A/S Pos.: 17 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 17
Replicate 1 (Peak Stored) Time: 15:06
Peak Area (A-s): 0.008 Peak Height (A): 0.016
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.20

ID: Seq. No.: 00027 A/S Pos.: 18 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 18
Replicate 1 (Peak Stored) Time: 15:12
Peak Area (A-s): 0.010 Peak Height (A): 0.017
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.002

[illegible]

B. Green
7-17-90

Replicate 1 (Peak Stored) Time: 15:26
Peak Area (A-s): 0.058 Peak Height (A): 0.126
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.050
Concentration (ug/L): 19.62

~~~~~~

ID: 90FU02R96 Seq. No.: 00033 A/S Pos.: 18 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 18
Replicate 1 (Peak Stored) Time: 15:29
Peak Area (A-s): 0.007 Peak Height (A): 0.019
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.14

~~~~~~

ID: 90FU02R96 + 20 Seq. No.: 00034 A/S Pos.: 19 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 19
Replicate 1 (Peak Stored) Time: 15:32
Peak Area (A-s): 0.063 Peak Height (A): 0.130
Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.055
Concentration (ug/L): 21.43

~~~~~~

ID: 90FU20S56 Seq. No.: 00035 A/S Pos.: 20 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 20
Replicate 1 (Peak Stored) Time: 15:35
Peak Area (A-s): 0.020 Peak Height (A): 0.042
Background Pk Area (A-s): 0.151 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 4.62

~~~~~~

ID: 90FU20S56 + 20 Seq. No.: 00036 A/S Pos.: 21 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 21
Replicate 1 (Peak Stored) Time: 15:38
Peak Area (A-s): 0.072 Peak Height (A): 0.151
Background Pk Area (A-s): 0.171 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.064
Concentration (ug/L): 24.83

~~~~~~

ID: AQC 22.4 UG/L Seq. No.: 00037 A/S Pos.: 37 Date: 07/16/90

B. Yuen
7-17-90

uL dispensed: 5 from 36, 15 from 37
Replicate 1 (Peak Stored) Time: 15:42
Peak Area (A-s): 0.069 Peak Height (A): 0.143
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.061
Concentration (ug/L): 23.69

Check sample is within range 20.16 - 24.64
~~~~~~

ID: CCB3 Seq. No.: 00038 A/S Pos.: 22 Date: 07/16/90

uL dispensed: 5 from 36, 15 from 22
Replicate 1 (Peak Stored) Time: 15:45
Peak Area (A-s): 0.002 Peak Height (A): 0.014
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): -0.006
Concentration (ug/L): -2.36

B. Green
7-17-90

Element	Instrument	QC Source	
☐ Ag	☐ 5000	☒ WP 284 TM I #2	Analyst B. [illegible]
☐ As	☐ 4000	☐ WP 1183 TM II #1	Date 7-16-90
☐ Cd	☐ 5000 ZE	☐ WP 1183 TM II #2	Lamp # 382.152
☐ Cr	☐ 5000 ZW	☐ ICV 2	Energy 47
☒ Pb	☒ 5100	☐ SPEX II	Expansion 1
☐ Sb	☐ Varian 30	☐ NBS SRM 1643b	Stock 2-53-MD
☐ Se		☐	☒ platform ☒ MSC
☐ Tl		☐	☐ wall ☐ MSA

Blank	Slope	AQC	Digestion QC
0.79	0.0026	22.43	
0.20		23.62	
			B. [illegible] 7-17-9[illegible]

Blank cup absorbance

---

* FLAMELESS * CSC VERSION 1.00 *

NAME OF ANALYST ---: BAI
DATE OF ANALYSIS --: 07-24-1990
PARAMETER NAME ----: SB
DATA SET # --------: SF7262

-B. [illegible]
7-24-90

SAMPLE NO.	CONC.	R VALUE	SLOPE	
BLANK	-.2108728	.9998684	9.009998E-03	2u Limit=±2 µg/l
AQC 16.92 UG/L	27.39446	.981534	6.870003E-03	Rerun r<0.995
AQC 16.92 UG/L	16.8513	.9980155	.01029	%R=99.6 Limit=100±10%
90FT20S53	-.6796125	.9989237	.00824	2u SF7262
90FT20S54	-1.265647	.9839763	7.190001E-03	Rerun r<0.995
90FT20D54	-.5143713	.9948065	.00661	Rerun r<0.995
90FT02R95	-2.082855	.9955448	8.689999E-03	Rerun
90FU20S55	-1.040611	.9997295	7.880001E-03	2u SF7261
AQC 16.92 UG/L	16.9681	.9981829	9.399998E-03	%R=100.3 Limit=100±10%
90FU20S56	-1.341634	.9990394	.00723	2u SF7261
90FU20D56	.2777723	.9962551	6.840002E-03	2u
90FU02R96	-1.052012	.9992714	8.460001E-03	2u
90FT20S54	-.2827779	.9994585	7.780001E-03	2u SF7262
90FT20D54	-.7758608	.9994272	8.119999E-03	2u
90FT02R95	.1544417	.9974211	.00777	2u
90FK20S65	3.639577	.8812181	.00283	Rerun SF7265
AQC 16.92 UG/L	18.31436	.9953264	8.779999E-03	%R=108.2 Limit=100±10%
90FF02R98	-1.165644	.9990754	.00815	2u SF7265
90FF20S65	-2.371895	.997729	6.830001E-03	Rerun
90FK20S68	-1.556602	.9941991	.00424	Rerun r<0.995 SF7270
90FK02R99	-1.52968	.9999063	8.759999E-03	2u
90FF20S65	-1.796983	.9933917	7.290001E-03	Rerun r<0.995 SF7265
90FK20S68 1:1	-2.312635	.9998945	.00467	Rerun SF7270
90FK20S67	-.9720186	.9984701	.00679	2u
AQC 16.92 UG/L	17.41139	.9997386	9.310001E-03	%R=102.9 Limit=100±10%

BLANK

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.002	-1.899963E-03	1.000367E-04	-5.265193 %
10	.087	8.820002E-02	1.20002E-03	1.360567 %
20	.181	.1783	-2.700001E-03	-1.514302 %
30	.267	.2684	1.399994E-03	.5216073 %

AQC 16.92 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.176	.1882	1.220001E-02	6.482472 %
10	.265	.2569001	-8.099943E-03	-3.152955 %
20	.346	.3256001	-2.039993E-02	-6.265333 %
30	.378	.3943001	1.630011E-02	4.133936 %

AQC 16.92 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT

0	.178	.1734	-4.600048E-03	-2.652854 %
10	.275	.2763	1.300007E-03	.4705057 %
20	.368	.3792001	1.120004E-02	2.953597 %
30	.49	.4821001	-7.89991E-03	-1.638645 %

90FT20S53

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	-5.600007E-03	-4.600006E-03	82.14287 %
10	.07	7.679999E-02	6.799989E-03	8.854154 %
20	.159	.1592	1.999885E-04	.1256209 %
30	.244	.2416	-2.400026E-03	-.9933882 %

90FT20S54

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.006	-9.100006E-03	-3.100006E-03	34.06598 %
10	.047	6.280001E-02	1.580001E-02	25.15925 %
20	.157	.1347	-2.229999E-02	-16.5553 %
30	.197	.2066	9.600028E-03	4.646673 %

B. [illegible]
7-24-90

90FT20D54

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.003	-3.399994E-03	-3.999937E-04	11.76454 %
10	.056	6.270001E-02	6.700002E-03	10.68581 %
20	.141	.1288	-1.220001E-02	-9.47206 %
30	.189	.1949	5.899996E-03	3.027191 %

90FT02R95

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.011	-1.810001E-02	-7.100007E-03	39.22654 %
10	.054	6.879999E-02	1.479999E-02	21.51161 %
20	.164	.1557	-8.300021E-03	-5.330779 %
30	.242	.2426	5.999804E-04	.2473126 %

90FU20S55

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-8.000001E-03	-8.200012E-03	-2.000118E-04	2.439164 %
10	.072	.0706	-1.400001E-03	-1.983005 %
20	.146	.1494	3.399998E-03	2.275769 %
30	.23	.2282	-1.800016E-03	-.7887886 %

AQC 16.92 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.16	.1595001	-4.99934E-04	-.3134381 %
10	.258	.2535001	-4.499942E-03	-1.775125 %
20	.337	.3475	1.050001E-02	3.021587 %
30	.447	.4415	-5.499989E-03	-1.245751 %

90FU20S56

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.012	-9.700012E-03	2.299988E-03	-23.71118 %
10	6.800001E-02	6.259998E-02	-5.400025E-03	-8.62624 %
20	.131	.1349	3.899977E-03	2.891014 %
30	.208	.2072	-8.000285E-04	-.3861142 %

90FU20D56

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.004	1.899963E-03	5.899964E-03	310.5304 %
10	.075	7.029998E-02	-4.70002E-03	-6.685663 %
20	.147	.1387	-8.300006E-03	-5.984144 %
30	.2	.2071	7.100001E-03	3.428296 %

90FU02R96

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.012	-8.900024E-03	3.099976E-03	-34.8311 %
10	.078	7.569999E-02	-2.300017E-03	-3.038332 %
20	.165	.1603	-4.70002E-03	-2.932015 %
30	.241	.2449	3.900021E-03	1.592495 %

B. L[illegible]
7-24-90

90FT20S54

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.002	-2.200012E-03	-2.00012E-04	9.091404 %
10	.073	.0756	2.599992E-03	3.439143 %
20	.158	.1534	-4.600004E-03	-2.998698 %
30	.229	.2312	2.200008E-03	.9515602 %

90FT20D54

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.006	-6.299988E-03	-2.999879E-04	4.761721 %
10	.072	.0749	2.900005E-03	3.871835 %
20	.161	.1561	-4.900009E-03	-3.139019 %
30	.235	.2373	2.299965E-03	.9692224 %

90FT02R95

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	1.200012E-03	2.200012E-03	183.3325 %
10	.077	7.890001E-02	1.90001E-03	2.408124 %
20	.167	.1566	-.0104	-6.641123 %
30	.228	.2343	6.299988E-03	2.688855 %

90FK20S65

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.006	.0103	.0163	158.2524 %
10	[illegible]	[illegible]	[illegible]	[illegible] %

0	-.001	1.200012E-03	2.200012E-03	183.3325 %
10	.077	7.890001E-02	1.90001E-03	2.408124 %
20	.167	.1566	-.0104	-6.641123 %
30	.228	.2343	6.299988E-03	2.688855 %

90FK20S65

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.006	.0103	.0163	158.2524 %
10	.067	.0386	-.0284	-73.57513 %
20	.059	.0669	.0079	11.80867 %
30	.091	.0952	4.200004E-03	4.411769 %

AQC 16.92 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.17	.1608	-9.199962E-03	-5.721368 %
10	.24	.2486	8.600041E-03	3.459389 %
20	.326	.3364	1.040003E-02	3.091565 %
30	.434	.4242	-9.799987E-03	-2.310228 %

B. Yu
7-24-90

90FF02R98

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.011	-.0095	.0015	-15.78948 %
10	.071	7.200001E-02	1.000002E-03	1.388892 %
20	.16	.1535	-6.499991E-03	-4.234522 %
30	.231	.235	4.000008E-03	1.702131 %

90FF20S65

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.017	-1.620004E-02	7.999577E-04	-4.937997 %
10	.049	5.209997E-02	3.099967E-03	5.950036 %
20	.129	.1204	-8.600019E-03	-7.142875 %
30	.184	.1887	4.69999E-03	2.490721 %

90FK20S68

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	-6.599991E-03	-5.599991E-03	84.84846 %
10	.028	.0358	7.800002E-03	21.78771 %
20	.077	.0782	1.199998E-03	1.534524 %
30	.124	.1206	-3.399998E-03	-2.819235 %

90FK02R99

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.012	-1.339999E-02	-1.399994E-03	10.44772 %
10	.072	.0742	.0022	2.96496 %
20	.162	.1618	-2.000034E-04	-.1236115 %
30	.25	.2494	-6.000102E-04	-.2405815 %

20	.182	.1618	-2.000034E-04	-.1236115 %
30	.25	.2494	-6.000102E-04	-.2405815 %

90FF20S65

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.01	-1.310001E-02	-3.100006E-03	23.66416 %
10	.063	5.980001E-02	-3.199995E-03	-5.351161 %
20	.117	.1327	1.570003E-02	11.83122 %
30	.215	.2056	-9.39998E-03	-4.571975 %

90FK20S68 1:1

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.01	-.0108	-8.000033E-04	7.407436 %
10	.035	.0359	8.999966E-04	2.506955 %
20	.082	.0826	5.999953E-04	.7263866 %
30	.13	.1293	-6.99997E-04	-.5413743 %

90FK20S67

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.004	-6.600006E-03	-2.600006E-03	39.39399 %
10	.055	.0613	6.299995E-03	10.27732 %
20	.134	.1292	-4.800007E-03	-3.715176 %
30	.196	.1971	1.100004E-03	.5580942 %

AQC 16.92 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.164	.1621	-1.899973E-03	-1.172099 %
10	.254	.2552	1.20002E-03	.4702274 %
20	.345	.3483001	3.300041E-03	.9474708 %
30	.444	.4414001	-2.599955E-03	-.5890246 %

B. Yu

7-24-90

BEGIN DATA FILE: SB720.DF

```
Begin Element - SB
   0.003
   0.000 AZ
   0.006
   0.085
   0.217
   0.267

Begin Element - SB
  -0.002
   0.000 AZ
   0.004
   0.066
   0.184
   0.273

Begin Element - SB
   0.006
   0.000 AZ
  -0.005
   0.081
   0.196
   0.277
```

NOT USED
7-20-90

B. Yu
7-24-90

```
Begin Element - SB
   0.004
   0.000 AZ
 0 -0.002
10  0.087
20  0.181
30  0.267
```

Blank

```
 0  0.176
10  0.265
20  0.346
30  0.378
```

AQC

```
 0  0.178
10  0.275
20  0.368
    0.164
30  0.490
```

AQC

NOT USED, WRONG CUP

```
 0 -0.001
10  0.070
20  0.159
30  0.244
```

90FT20S53

```
 0 -0.006
10  0.047
20  0.157
30  0.197
```

90FT20S54

```
 0 -0.003
10  0.056
20  0.141
30  0.189
```

90FT20D54

0	-0.011	90FT02R95	
10	0.054		
20	0.164		
30	0.242		SF7262
0	-0.008		SF7261
10	0.072	90FU20S55	
20	0.146		
30	0.230		
0	0.160	AQC	
10	0.258		
20	0.337		
30	0.447		
	-0.012	Blank Cup	
0	-0.012		
10	0.068	90FU20S56	
20	0.131		
30	0.208		
0	-0.004		
10	0.075	90FU20D56	
20	0.147		
30	0.200		
0	-0.012		
10	0.078	90FU02R96	
20	0.165		
30	0.241		
0	-0.002		SF7262
10	0.073	90FT20S54	
20	0.158		
30	0.229		
0	-0.006		
10	0.072	90FT20D54	
20	0.161		
30	0.235		
0	-0.001		
10	0.077	90FT02R95	
20	0.167		
30	0.228		
0	-0.006		SF7265
10	0.067	90FK20S65	
20	0.059		
30	0.091		
0	0.170	AQC	
10	0.240		
20	0.326		
30	0.434		
	-0.010	Blank Cup	
0	-0.011		
10	0.071	90FF02R98	
20	0.160		
30	0.231		
0	-0.017		
10	0.049	90FF20S65	
20	0.129		
30	0.184		
0	-0.001		SF7270
10	0.028	90FK20S68	
20	0.077		
30	0.124		
0	-0.012		
10	0.072	90FK02R99	

B. [illegible]
7-24-90

20	0.162		
30	0.250		
0	-0.010		SF7265
10	0.063	90FF20S65	
20	0.117		
30	0.215		
0	-0.010		SF7270
10	0.035	90FK20S68 1:1	
20	0.082		
30	0.130		
0	-0.004		
10	0.055	90FK20S67	
20	0.134		
30	0.196		
0	0.164		
10	0.254	ARC	
20	0.345		
30	0.444		
	-0.004	blank cup	
	0.124		
	0.207		
	-0.012		
	0.029		
	0.078		
	0.111		
	-0.005		
	0.064		
	0.132		
	0.191		
	-0.005		
	0.025		
	0.095		
	0.135		
	-0.003		
	0.041		
	0.093		
	0.129		
	0.148		
	0.256		
	0.338		
	0.453		
	-0.001		

NOT USED
B. Y
7-20-90

B. Y
7-24-90

AAS RUN LOG

Element Sb

Analyst B Green

Date 7-20-90

Data Set SF7262

	ID	spike	comment.
1	Blank	0	
2		10	
3		20	
4		30	
5	AQC	0	TV=16.92 mg/l
6		10	
7		20	
8		30	
9	90FT20S53	0	SF7262
10		10	
11		20	
12		30	
13	90FT20S54	0	Rerun
14		10	
15		20	B. Green
16		30	7-24-90
17	90FT20D54	0	Rerun
18		10	
19		20	
20		30	
21	90FT02R95	0	Rerun
22		10	
23		20	
24		30	
25	90FU20S55	0	SF7261
26		10	
27		20	

AAS RUN LOG

Element Sb

Analyst B. L[illegible]

Date 7-20-90

Data Set SF7262

	ID	spike	comment
28		30	
29	AQC	0	TV=16.92 µg/l
30		10	
31		20	
32		30	
33	Blank Cup	0	
	Start Wheel 2		
1	90FU20S56	0	SF7261
2		10	
3		20	
4		30	
5	90FU20D56	0	
6		10	B. L[illegible]
7		20	
8		30	7-24-90
9	90FU02R96	0	
10		10	
11		20	
12		30	
13	90FT20S54	0	SF7262
14		10	
15		20	
16		30	
17	90FT20D54	0	
18		10	
19		20	
20		30	

AAS RUN LOG

Element Sb **Analyst** B. Green

Date 7-20-90 **Data Set** SF7262

	ID	spike	comment
21	90-T02R95	0	SF7262
22		10	
23		20	
24		30	
25	90FF20565	0	SF7265 Rerun
26		10	
27		20	
28		30	
29	AQC	0	TV=16.92 µg/l
30		10	
31		20	
32		30	
33	Blank Cup	0	
	Start Wheel 3		
1		0	B. Green
2		10	
3		20	7-24-90
4		30	
5		0	
6		10	
7		20	
8		30	
9		0	
10		10	
11		20	
12		30	
13		0	

AAS RUN LOG

Element Sb

Analyst B. Yuen

Date 7-20-90

Wheel 3

Data Set SF7262

	ID	spike	comment.
1	B.Y. ~~Blank~~ 90FF02R98	0	SF7265
2		10	
3		20	
4		30	
5	B.Y. ~~AQC~~ 90FF20565	0	Rerun
6		10	
7		20	
8		30	
9	90FK20568	0	SF7270 Rerun
10		10	
11		20	
12		30	
13	90FK02R99	0	B. Yuen
14		10	
15		20	7-24-90
16		30	
17	90FF20565	0	SF7265 Rerun
18		10	
19		20	
20		30	
21	90FK20568 1:1	0	SF7270 Rerun
22		10	
23		20	
24		30	
25	90FK20567	0	
26		10	
27		20	

AAS RUN LOG

Element Sb

Analyst B. Green

Date 7-20-90

Data Set SF7262

	ID	spike	comment
28		30	
29	AQC	0	TV=16.92 µg/l
30		10	
31		20	
32		30	
33	Blank Cup	0	
	Start Wheel 2		
1		0	
2		10	
3		20	
4		30	
5		0	B. Green
6		10	7-24-90
7		20	
8		30	
9		0	
10		10	
11		20	
12		30	
13		0	
14		10	
15		20	
16		30	
17		0	
18		10	
19		20	
20		30	

Element	Instrument	QC Source	
☐ Ag	☐ 5000	☐ WP 284 TM I #2	Analyst B. [illegible]
☐ As	☐ 4000	☒ WP 1183 TM II #1	Date 7-30-90
☐ Cd	☐ 5000 ZE	☐ WP 1183 TM II #2	Lamp # 2237
☐ Cr	☒ 5000 ZW	☐ ICV 2	Energy 40
☐ Pb	☐ 5100	☐ SPEX II	Expansion 5
☒ Sb	☐ Varian 30	☐ NBS SRM 1643b	Stock 4-131-EP
☐ Se		☐	☐ platform ☐ MSC
☐ Tl		☐	☒ wall ☒ MSA

Blank	Slope	AQC	Digestion QC
-0.21	0.00901	16.85	
		16.97	
		18.31	
		17.41	
			B. [illegible] 7-24-90

Blank cup absorbance
-0.012
-0.010
-0.004

---

* FLAMELESS * CSC VERSION 1.00 *

NAME OF ANALYST ---: BAI
DATE OF ANALYSIS --: 07-23-1990
PARAMETER NAME ----: SE
DATA SET # --------: SF7262

B. L. [illegible]
7-23-90

SAMPLE NO.	CONC.	R VALUE	SLOPE	
BALNK	-.3401986	.9998052	.01117	2u Limit = ±2 µg/l
AQC 25 UG/L	22.92083	.9982761	.01099	%R=91.7 Limit = 100 ± 10%
90FT20S53	-.3663584	.9993581	.01201	2u SF7262
90FT20S54	0	.9998268	.01165	2u
90FT20D54	-6.975141E-02	.999284	.01147	2u
90FT02R95	-.6115096	.9994441	.01112	2u
90FU20S55	.3255814	.9998141	.01075	2u SF7261
AQC 25 UG/L	23.54285	.9999543	.00875	%R=94.2 Limit = 100 ± 10%
90FU20S56	-.4090936	.9983428	.011	2u SF7261
90FU20D56	-.1401841	.9995723	.0107	2u
90FU02R96	.3376012	.9992324	8.589999E-03	2u
AQC 25 UG/L	23.79799	.9935013	7.030003E-03	rerun r<0.995
AQC 25 UG/L	33.76602	.9506864	5.469998E-03	rerun r<0.995
AQC 25 UG/L	23.18898	.9997626	7.619999E-03	%R=92.8 Limit = 100 ± 10%

BALNK

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.002	-3.800018E-03	-1.800018E-03	47.36867 %
10	.104	.1079	3.899977E-03	3.614437 %
20	.222	.2196	-2.400026E-03	-1.092908 %
30	.331	.3313	2.999604E-04	9.054042E-02 %

AQC 25 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.244	.2518999	7.899895E-03	3.136125 %
10	.372	.3617999	-1.020011E-02	-2.819269 %
20	.475	.4716999	-3.300071E-03	-.6996123 %
30	.576	.5816	5.599976E-03	.9628569 %

90FT20S53

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	0	-4.399963E-03	-4.399963E-03	100 %
10	.112	.1157	3.700026E-03	3.197947 %
20	.23	.2358	5.800009E-03	2.459715 %
30	.361	.3559	-5.100012E-03	-1.43299 %

90FT20S54

SPIKE	MEASURED	CALC.	ERROR	PER CENT

0	-.001	0	.001	1.701412E+38 %
10	.116	.1165	5.00001E-04	.4291854 %
20	.237	.233	-4.000008E-03	-1.716742 %
30	.347	.3495	2.499998E-03	.7153069 %

90FT20D54

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.006	-8.000488E-04	5.199951E-03	-649.9543 %
10	.12	.1139	-6.100036E-03	-5.355609 %
20	.232	.2286	-3.400028E-03	-1.487326 %
30	.339	.3433	4.299999E-03	1.252548 %

90FT02R95

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.004	-6.799988E-03	-2.799987E-03	41.17636 %
10	.098	.1044	6.400019E-03	6.130286 %
20	.22	.2156	-4.399985E-03	-2.040809 %
30	.326	.3268	8.000136E-04	.2448022 %

B. L. [illegible]
7-23-90

90FU20S55

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.006	.0035	-.0025	-71.42857 %
10	.108	.111	2.999991E-03	2.702695 %
20	.217	.2185	1.499996E-03	.6864969 %
30	.328	.326	-2.000004E-03	-.6134981 %

AQC 25 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.205	.2059999	9.999424E-04	.4854091 %
10	.295	.2935	-1.50004E-03	-.5110871 %
20	.381	.3809999	-8.940697E-08	-2.34664E-05 %
30	.468	.4685	4.99934E-04	.1067095 %

90FU20S56

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.003	-4.500031E-03	-7.500031E-03	166.6662 %
10	9.399999E-02	.1055	1.149999E-02	10.90046 %
20	.216	.2155	-5.000085E-04	-.2320225 %
30	.329	.3255	-3.499985E-03	-1.075264 %

90FU20D56

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.004	-1.49997E-03	2.500031E-03	-166.6721 %
10	.111	.1055	-5.500004E-03	-5.213274 %
20	.209	.2125	3.499955E-03	1.647038 %
30	.32	.3194999	-5.00083E-04	-.1565205 %

90FU02R96

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	2.899994E-03	3.899994E-03	134.4828 %
10	.093	8.879998E-02	-4.200019E-03	-4.729752 %
20	.178	.1747	-3.300041E-03	-1.888976 %
30	.257	.2606	3.599972E-03	1.381417 %

AQC 25 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.173	.1672999	-5.700067E-03	-3.407095 %
10	.236	.2376	1.599953E-03	.6733809 %
20	.294	.3079	1.389998E-02	4.514447 %
30	.388	.3782	-9.800017E-03	-2.591226 %

AQC 25 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.169	.1847	1.570001E-02	8.500277 %
10	.249	.2394	-9.600014E-03	-4.010031 %
20	.322	.2941	-2.790004E-02	-9.486584 %
30	.327	.3488	2.179995E-02	6.249987 %

AQC 25 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.177	.1767	-2.999902E-04	-.1697737 %
10	.254	.2529	-1.100004E-03	-.434956 %
20	.326	.3291	3.099978E-03	.9419563 %
30	.407	.4053	-1.700044E-03	-.4194532 %

B. [illegible]

7-23-90

3
BEGIN DATA FILE: SE719.DF

Begin Element - SE
-0.004
0.000 AZ
0.002
0.115
0.246
0.351
0.243
0.368
0.478
0.581

NOT USED
B.Y
7-19-90

Begin Element - SE
0.006
0.000 AZ

0	-0.002	Blank
10	0.104	
20	0.222	
30	0.331	
0	0.244	AQC
10	0.372	
20	0.475	
30	0.576	
0	-0.000	90FT20S53
10	0.112	
20	0.230	
30	0.361	
0	-0.001	90FT20S54
10	0.116	
20	0.237	
30	0.347	
0	-0.006	90FT20D54
10	0.120	
20	0.232	
30	0.339	
0	-0.004	90FT02R95
10	0.098	
20	0.220	
30	0.326	
0	0.006	90FU20S55
10	0.108	
20	0.217	
30	0.328	
0	0.205	AQC
10	0.295	
20	0.381	
30	0.468	
	-0.001	Blank Cup
0	0.003	90FU20S56
10	0.094	
20	0.216	
30	0.329	
0	-0.004	90FU20D56
10	0.111	
20	0.209	
30	0.320	

B. L. [illegible]
7-23-90

SF7262
SF7261

0	-0.001	90FU02R96
10	0.093	
20	0.178	
30	0.257	
0	0.173	AQC
10	0.236	
20	0.294	
30	0.388	
0	0.169	AQC
10	0.249	
20	0.322	
30	0.327	
0	0.177	AQC
10	0.254	
20	0.326	
30	0.407	
	-0.142	~~Blank Cup~~ NOT USED
	-0.001	~~NOT USED~~ Blank cup

B. L. [illegible]

7-23-90

AAS RUN LOG

Element Se

Analyst B. Green

Date 7-23-90

Data Set SF7262

	ID	spike	comment.
1	Blank	0	
2		10	
3		20	
4		30	
5	AQC	0	TV = 25 µg/l
6		10	
7		20	
8		30	
9	90FT20S53	0	SF7262
10		10	
11		20	
12		30	
13	90FT20S54	0	
14		10	
15		20	B. Green
16		30	7-23-90
17	90FT20D54	0	
18		10	
19		20	
20		30	
21	90FT02R95	0	
22		10	
23		20	
24		30	
25	90FU20S55	0	SF7261
26		10	
27		20	

AAS RUN LOG

Element Se **Analyst** B. L[illegible]

Date 7-23-90 **Data Set** SF7262

	ID	spike	comment
28		30	
29	AQC	0	TV=25 µg/l
30		10	
31		20	
32		30	
33	Blank Cup	0	
	Start Wheel 2		
1	90FU20S56	0	SF7261
2		10	
3		20	
4		30	
5	90FU20D56	0	
6		10	
7		20	
8		30	B. L[illegible]
9	90FU02R96	0	7-23-90
10		10	
11		20	
12		30	
13	AQC	0	TV=25 µg/l
14		10	
15		20	
16		30	
17	Blank Cup	0	
18		10	
19		20	
20		30	

Element	Instrument	QC Source	
☐ Ag	☐ 5000	☐ WP 284 TM I #2	Analyst B. Green
☐ As	☐ 4000	☐ WP 1183 TM II #1	Date 7-23-90
☐ Cd	☐ 5000 ZE	☐ WP 1183 TM II #2	Lamp # 4453
☐ Cr	☒ 5000 ZW	☐ ICV 2	Energy 42
☐ Pb	☐ 5100	☐ SPEX II	Expansion 5
☐ Sb	☐ Varian 30	☐ NBS SRM 1643b	Stock 2-44-MD
☒ Se		☒ 2172 WP2871	☐ platform ☐ MSC
☐ Tl		☐	☒ wall ☒ MSA

Blank	Slope	AQC	Digestion QC
-0.34	0.01117	22.92 23.54 23.19	B. Green 7-23-90

Blank cup absorbance
-0.001
<0.001

* FLAMELESS * CSC VERSION 1.00 *

NAME OF ANALYST ---: BAI
DATE OF ANALYSIS --: 07-17-1990
PARAMETER NAME ----: TL
DATA SET # --------: SF7262

B. Lyman
7-17-90

SAMPLE NO.	CONC.	R VALUE	SLOPE	
~~BALNK~~ BLANK	-1.40257	.9998144	9.339999E-03	2u Limit = ±2 µg/l
AQC 25 UG/L	22.73389	.9928822	9.619999E-03	Rerun r<0.995
AQC 25 UG/L	23.76346	.9976267	9.299996E-03	%R=95.0 Limit=100±10%
90FT20S53	-4.697802	.9990804	.00364	Rerun SF7262
90FT20S54	-14.00722	.9989199	.00277	Rerun
90FT20D54	-14.67532	.9715234	.00231	Rerun r<0.995
90FT02R95	-.7821263	.9969986	8.950001E-03	2u
90FU02R96	-1.321778	.999012	9.230001E-03	2u SF7261
AQC 25 UG/L	27.90193	.9966576	.00877	%R=111.6 Limit=100±10%

The sample data are less than IDL and are acceptable

~~BALNK~~ BLANK

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.011	-1.310001E-02	-2.100006E-03	16.03057 %
10	.077	8.029999E-02	3.299989E-03	4.109576 %
20	.174	.1737	-3.0002E-04	-.1727231 %
30	.268	.2671	-9.000301E-04	-.3369638 %

AQC 25 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.215	.2187	3.700003E-03	1.691817 %
10	.33	.3149	-1.510003E-02	-4.795184 %
20	.392	.4111	1.909998E-02	4.646067 %
30	.515	.5073	-7.700026E-03	-1.517845 %

AQC 25 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.219	.2210001	2.000064E-03	.9050059 %
10	.311	.314	3.000021E-03	.9554207 %
20	.419	.407	-1.200005E-02	-2.948417 %
30	.493	.5	6.99994E-03	1.399988 %

90FT20S53

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.016	-.0171	-1.099998E-03	6.432738 %
10	.019	.0193	2.999995E-04	1.554402 %
20	.053	.0557	2.699997E-03	4.847393 %
30	9.399999E-02	9.209999E-02	-1.900002E-03	-2.062978 %

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.039	-3.879999E-02	2.000071E-04	-.5154823 %
10	-.012	-1.109999E-02	9.000059E-04	-8.108166 %
20	.019	1.660001E-02	-2.399994E-03	-14.45779 %
30	.043	4.430001E-02	1.300003E-03	2.934545 %

90FT20D54

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.028	-.0339	-5.899996E-03	17.40412 %
10	-.016	-.0108	5.200004E-03	-48.1482 %
20	.005	.0123	7.300004E-03	59.3496 %
30	.042	.0354	-.0066	-18.64407 %

90FT02R95

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.013	-7.000031E-03	5.99997E-03	-85.71348 %
10	.086	8.249998E-02	-3.500022E-03	-4.242452 %
20	.183	.172	-1.100001E-02	-6.395354 %
30	.253	.2615	8.50001E-03	3.250482 %

90FU02R96

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.014	-1.220001E-02	1.799989E-03	-14.75399 %
10	7.900001E-02	.0801	1.099996E-03	1.373279 %
20	.18	.1724	-7.599995E-03	-4.408349 %
30	.26	.2647	4.700005E-03	1.775597 %

AQC 25 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.247	.2447	-2.300039E-03	-.9399426 %
10	.323	.3324	9.399951E-03	2.827904 %
20	.432	.4201	-1.190004E-02	-2.832668 %
30	.5030001	.5078	4.799962E-03	.9452466 %

B. Ufuen

7-17-90

BBEBEGIN DATA FILE: TL716.DF

Begin Element - TL

Begin Element - TL
-0.024
0.000 AZ
0.038
0.097
0.183

NOT USED
B.Y.
7-16-90

Begin Element - TL
0.015
0.000 AZ

0	-0.011	Blank
10	0.077	
20	0.174	
30	0.268	
0	0.215	AQC
10	0.330	
20	0.392	
30	0.515	
	0.219	AQC
10	0.311	
20	0.419	
30	0.493	
0	-0.016	90FT20S53
10	0.019	
20	0.053	
30	0.094	
0	-0.039	90FT20S54
10	-0.012	
20	0.019	
30	0.043	
0	-0.028	90FT20D54
10	-0.016	
20	0.005	
30	0.042	
0	-0.013	90FT02R95
10	0.086	
20	0.183	
30	0.253	
0	-0.014	90FU02R96
10	0.079	
20	0.180	
30	0.260	
0	0.247	AQC
10	0.323	
20	0.432	
30	0.503	
	-0.006	Blank cup

B. Yu.
7-17-90

SF7262
SF7261

AAS RUN LOG

Element TL

Analyst B. L. Juen

Date 7-16-90

Data Set SF7262

	ID	spike	comment.
1	Blank	0	
2		10	
3		20	
4		30	
5	AQC	0	TV = 25 µg/l
6		10	
7		20	
8		30	
9	90FT20S53	0	SF7262 Rerun
10		10	
11		20	
12		30	
13	90FT20S54	0	Rerun
14		10	
15		20	
16		30	
17	90FT20D54	0	Rerun
18		10	
19		20	
20		30	B. L. Juen
21	90FT02R95	0	
22		10	7-17-90
23		20	
24		30	
25	90FU02R96	0	SF7261
26		10	
27		20	

AAS RUN LOG

Element TL

Analyst B. Green

Date 7-16-90

Data Set SF7262

	ID	spike	comment
28		30	
29	AQC	0	TV=25 µg/l
		10	
31		20	
32		30	
33	Blank Cup	0	
	Start Wheel 2		
1		0	
2		10	
3		20	
4		30	B. Green
5		0	7-17-90
6		10	
7		20	
8		30	
9		0	
10		10	
11		20	
12		30	
13		0	
14		10	
15		20	
16		30	
17		0	
18		10	
19		20	
20		30	

Element	Instrument	QC Source	
☐ Ag	☐ 5000	☐ WP 284 TM I #2	Analyst B. Lyman
☐ As	☐ 4000	☒ WP 1183 TM II #1	Date 7-16-90
☐ Cd	☒ 5000 ZE	☐ WP 1183 TM II #2	Lamp # 384272
☐ Cr	☐ 5000 ZW	☐ ICV 2	Energy 40
☐ Pb	☐ 5100	☐ SPEX II	Expansion 5
☐ Sb	☐ Varian 30	☐ NBS SRM 1643b	Stock 2-51-MD
☐ Se		☐	☐ platform ☐ MSC
☒ Tl		☐	☒ wall ☒ MSA

Blank	Slope	AQC	Digestion QC
-1.40	0.00934	23.76 27.90	B. Lyman 7-17-90

Blank cup absorbance
-0.006

---

* FLAMELESS * CSC VERSION 1.00 *

NAME OF ANALYST ---: BAI
DATE OF ANALYSIS --: 07-27-1990
PARAMETER NAME ----: TL
DATA SET # --------: SF7262

B. [illegible]
7-27-90

SAMPLE NO.	CONC.	R VALUE	SLOPE		
BLANK	.2485695	.9995919	.02092	2u Limit=±2 µg/l	
AQC 25 UG/L	21.10868	.994368	.02282	Rerun r<0.995	
AQC 25 UG/L	24.99757	.9962014	2.067001E-02	%R=~~96.4~~ 100.0 Limit=100±10%	
90FT20S53 1:20	-.1799782	.9992834	.01778	42u	SF7262
90FT20S54 1:30	.1769387	.9989641	.01639	62u	
90FT20D54 1:10	.1455787	.9961066	8.930001E-03	22u	
90FU20S55 1:10	.6950663	.9997219	.01338	22u	SF7261
90FU20S56 1:10	-.3167793	.9989331	.01168	22u	
AQC 25 UG/L	24.79565	.9997696	2.031001E-02	%R=99.2 Limit=100±10%	
90FU20D56 1:10	.7101601	.9991101	.01211	22u	SF7261
AQC 25 UG/L	24.96915	.999717	.01944	%R=99.9 Limit=100±10%	

BLANK

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	8.999999E-03	5.200073E-03	-3.799927E-03	-73.07449 %
10	.214	.2144001	4.000366E-04	.1865842 %
20	.413	.4236	1.060003E-02	2.502368 %
30	.64	.6328	-7.200003E-03	-1.137801 %

AQC 25 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.48	.4817	1.699954E-03	.3529073 %
10	.69	.7098999	1.989991E-02	2.803199 %
20	.983	.9380999	-4.490006E-02	-4.786277 %
30	1.143	1.1663	2.329993E-02	1.997765 %

AQC 25 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.505	.5166999	1.169986E-02	2.264343 %
10	.725	.7233999	-1.600146E-03	-.221198 %
20	.962	.9300999	-3.190005E-02	-3.429744 %
30	1.115	1.1368	2.180004E-02	1.917667 %

90FT20S53 1:20

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.004	-3.200012E-03	-7.200013E-03	224.9995 %
10	.162	.1746	1.259999E-02	7.21649 %
20	.356	.3524	-3.600031E-03	-1.021575 %
30	.532	.5302	-1.800001E-03	-.3394947 %

90FT20S54 1:30

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.012	2.900025E-03	-9.099975E-03	-313.7896 %
10	.154	.1668	1.279999E-02	7.673857 %
20	.329	.3307	1.699984E-03	.5140563 %
30	.5	.4946	-5.400032E-03	-1.091798 %

90FT20D54 1:10

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-8.000001E-03	1.300018E-03	9.300019E-03	715.376 %
10	.101	9.060003E-02	-1.039998E-02	-11.479 %
20	.187	.1799	-7.099971E-03	-3.94662 %
30	.261	.2692	8.20002E-03	3.04607 %

90FU20S55 1:10

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.006	9.299988E-03	3.299988E-03	35.48379 %
10	.149	.1431	-5.899996E-03	-4.122988 %
20	.275	.2769	1.900017E-03	.6861745 %
30	.41	.4107	7.000268E-04	.1704472 %

B. [illegible]
7-27-90

90FU20S56 1:10

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.002	-3.699982E-03	-5.699982E-03	154.0543 %
10	.103	.1131	1.010001E-02	8.930156 %
20	.233	.2299	-3.100008E-03	-1.348416 %
30	.348	.3467	-1.300007E-03	-.374966 %

AQC 25 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.505	.5035999	-1.400113E-03	-.278021 %
10	.701	.7067	5.700052E-03	.8065731 %
20	.917	.9098002	-7.199824E-03	-.7913633 %
30	1.11	1.1129	2.900243E-03	.2606022 %

90FU20D56 1:10

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.004	8.600037E-03	4.600037E-03	53.48857 %
10	.139	.1297	-9.299994E-03	-7.170388 %
20	.246	.2508	4.799947E-03	1.913855 %
[illegible]	[illegible]	[illegible]	-1.000762E-04	-2.490944E-02 %

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.505	.5035999	-1.400113E-03	-.278021 %
10	.701	.7067	5.700052E-03	.8065731 %
20	.917	.9098002	-7.199824E-03	-.7913633 %
30	1.11	1.1129	2.900243E-03	.2606022 %

90FU20D56 1:10

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.004	8.600037E-03	4.600037E-03	53.48857 %
10	.139	.1297	-9.299994E-03	-7.170388 %
20	.246	.2508	4.799947E-03	1.913855 %
30	.372	.3718999	-1.000762E-04	-2.690944E-02 %

AQC 25 UG/L

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.481	.4854002	4.400134E-03	.9064962 %
10	.683	.6798001	-3.199935E-03	-.4707171 %
20	.881	.8742001	-6.799937E-03	-.7778467 %
30	1.063	1.0686	5.599976E-03	.5240479 %

B. Yu

7-27-90

BEGIN DATA FILE: TL727.DF

Begin Element - TL

	0.015			
	0.000 AZ			
0	0.009			
10	0.214	Blank		
20	0.413			
30	0.640			
0	0.480			
10	0.690	AQC		
20	0.983			
30	1.143			
0	0.505			
10	0.725	AQC		
20	0.962			
30	1.115			
0	0.004			
10	0.162	90FT20S53	1:20	
20	0.356			
30	0.532			
0	0.012			
10	0.154	90FT20S54	1:30	
20	0.329			
30	0.500			
0	-0.008			
10	0.101	90FT20D54	1:10	
20	0.187			
30	0.261			SF7262
0	0.006			SF7261
10	0.149	90FU20S55	1:10	
20	0.275			
30	0.410			
0	0.002			
10	0.103	90FU20S56	1:10	
20	0.233			
30	0.348			
0	0.505			
10	0.701	AQC		
20	0.917			
30	1.110			
	0.005	Blank cup		
0	0.004			
10	0.139	90FU20D56	1:10	
20	0.246			
30	0.372			
0	0.481			
10	0.683	AQC		
20	0.881			
30	1.063			
	0.014	Blank cup		

B. [illegible]
7-27-90

AAS RUN LOG

Element TL

Analyst B. L[illegible]

Date 7-27-90

Data Set SF7262

	ID	spike	comment
1	Blank	0	
2		10	
3		20	
4		30	
5	AQC	0	TV=25 Mg/l
6		10	
7		20	
8		30	
9	90FT20553 1:20	0	SF7262
10		10	
11		20	
12		30	
13	90FT20554 1:30	0	
14		10	
15		20	
16		30	B. L[illegible]
17	90FT20D54 1:10	0	7-26-90
18		10	
19		20	
20		30	
21	90FU20555 1:10	0	SF7261
22		10	
23		20	
24		30	
25	90FU20556 1:10	0	
26		10	
27		20	

AAS RUN LOG

Element TL

Analyst B. Lynn

Date 7-27-90

Data Set SF7262

	ID	spike	comment
28		30	
29	AQC	0	TV=25 µg/l
30		10	
31		20	
32		30	
33	Blank Cup	0	
	Start Wheel 2		
1	90FU20D56 1:10	0	SF7261
2		10	
3		20	
4		30	
5	AQC	0	TV=25 µg/l
6		10	
7		20	
8		30	
9	Blank cup	0	
10		10	
11		20	B. Lynn
12		30	
13		0	7-27-90
14		10	
15		20	
16		30	
17		0	
18		10	
19		20	
20		30	

Element	Instrument	QC Source	
☐ Ag	☐ 5000	☐ WP 284 TM I #2	Analyst B. Green
☐ As	☐ 4000	☒ WP 1183 TM II #1	Date 7-27-90
☐ Cd	☐ 5000 ZE	☐ WP 1183 TM II #2	Lamp # 2562
☐ Cr	☒ 5000 ZW	☐ ICV 2	Energy 41
☐ Pb	☐ 5100	☐ SPEX II	Expansion 2
☐ Sb	☐ Varian 30	☐ NBS SRM 1643b	Stock 2-51-MD
☐ Se		☐	☐ platform ☐ MSC
☒ Tl		☐	☒ wall ☒ MSA

Blank	Slope	AQC	Digestion QC
0.25	0.02092	24.99 24.80 24.97	B. Green 7-27-90

Blank cup absorbance
0.005 0.014

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: SEP 10 1990

SUBJECT: Review of Region 5 data for Peerless Chain Co.

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

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF7262
Sample Numbers: 90FT20S53, 90FT20S54, 90FT20D54, 90FT02X95
Parameter(s): ORGANICS - ABNs
Laboratory: 5SCRL - ESD - USEPA

Results Status:

( ) DATA ACCEPTABLE FOR USE*
(✓) DATA QUALIFIED AS TO USE Please see comments
( ) 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 ~~Steve Parker~~, James H. Adams, ~~David A. Payne~~, the Quality Control Coordinator, at 353-3805.

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)

RECEIVED BY/DATE: _____

Comments:

ATA SET	SITE	DU/ACT.
SF7362	Peerless Chain Co.	TFA302

AMPLES	PARAMETER(S)
90FT20553, 90FT20554, 90FT20554, 90FT20555	ORGANICS - ABNs

AMPLED	RECEIVED	DUE	LAB
7/11/90	7/12/90	7/2/90	SSCRL- USEPA

HIPPED	DATA RECEIVED	CONTRACT

EAM LEADER	SECTION CHIEF	QC COORD.	DATA COORD.

omments By Reviewer: THE DATA ARE ACCEPTABLE FOR USE EXCEPT FOR THE ACID COMPOUNDS (e.g., PHENOLS & BENZOIC ACID) IN SAMPLE 90FT20553. THE PROBLEM IS DUE TO THE POOR SAMPLE PREPARATION TECHNIQUE EMPLOYED IN THE LAB on sample 90FT20553. ONLY THE SAMPLE ACCURACY (MATRIX SPIKE ANALYSIS) DATA ARE ACCEPTABLE FOR THE TARGET ACID COMPOUNDS SPIKED IN 90FT20553MS BUT NOT FOR 90FT20553MD. THE MATRIX PRECISION DATA ARE NOT ACCEPTABLE FOR THE ACIDS.

ATA MANAGEMENT COORDINATOR

ECEIVED	TRANSMITTED		CLERICAL SUPPORT RECEIVED	COMPLETED
✓ REVIEWED	( ) UNREVIEWED	TEAM LEADER/DATE Barbara Parnowski 8/29/90		
✓ REVIEWED	( ) UNREVIEWED	SECTION CHIEF/DATE Eric Sans 9/7/90		
✓ REVIEWED	( ) UNREVIEWED	QC COORDINATOR/DATE James H. Adams Jr. 9/7/90		

EVIEWED BY CONTRACT COORDINATOR/DATE

ECEIVED	TRANSMITTED	DATA MANAGEMENT COORDINATOR
9/7/90	~~9/7/90~~ 9/10/90	Griffin

PLEASE SAVE
THIS INFO.
FOR FUTURE USE
THANKS

QUALIFIERS (CONTD.)

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

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

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

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

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are also detected in the sample.

If analyses at two different dilution factors are required (see Exhibit D), follow the data reporting instructions given in Exhibit D and with the "D" and "E" flags above.

PLEASE SAVE THIS INFO. FOR FUTURE USE. THANK YOU

QUALIFIERS

The seven EPA-defined qualifiers to be used are as follows:

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

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

and df = dilution factor

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

$$\frac{(330\ U)}{.76} \times 10 = 4300\ U$$ rounded to the appropriate number of significant figures

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

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

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides $\geq$10 ng/ul in the final extract shall be confirmed by GC/MS.

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

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

METHODBLANK

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

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

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >BP268

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec.____ dec. ____ Date Extracted: 07/13/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 7/18/90

GPC Cleanup: (Y/N) N pH: NA Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		Q
108-95-2	Phenol	2.	U	
111-44-4	bis(2-Chloroethyl)Ether	2.	U	
95-57-8	2-Chlorophenol	2.	U	
541-73-1	1,3-Dichlorobenzene	2.	U	
106-46-7	1,4-Dichlorobenzene	2.	U	
100-51-6	Benzyl alcohol	2.	U	
95-50-1	1,2-Dichlorobenzene	3.	U	
95-48-7	2-Methylphenol	1.	U	
39638-32-9	bis(2-chloroisopropyl)ether	3.	U	
106-44-5	4-Methylphenol	1.	U	
621-64-7	N-Nitroso-Di-n-propylamine	2.	U	X
67-72-1	Hexachloroethane	2.	U	
98-95-3	Nitrobenzene	3.	U	
78-59-1	Isophorone	3.	U	
88-75-5	2-Nitrophenol	2.	U	
105-67-9	2,4-Dimethylphenol	2.	U	
65-85-0	Benzoic acid	30.	U	X
111-91-1	bis(2-Chloroethoxy)methane	3.	U	
120-83-2	2,4-Dichlorophenol	2.	U	
120-82-1	1,2,4-Trichlorobenzene	2.	U	
91-20-3	Naphthalene	2.	U	
106-47-8	4-Chloroaniline	2.	U	
87-68-3	Hexachlorobutadiene	2.	U	
59-50-7	4-Chloro-3-methylphenol	2.	U	
91-57-6	2-Methylnaphthalene	2.	U	
77-47-4	Hexachlorocyclopentadiene	2.	U	
88-06-2	2,4,6-Trichlorophenol	2.	U	
95-95-4	2,4,5-Trichlorophenol	2.	U	
91-58-7	2-Chloronaphthalene	2.	U	
88-74-4	2-Nitroaniline	3.	U	
131-11-3	Dimethylphthalate	2.	U	
208-96-8	Acenaphthylene	2.	U	
606-20-2	2,6-Dinitrotoluene	1.	U	X

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

METHODBLANK

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

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

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >BP268

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec.____ dec. ____ Date Extracted: 07/13/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 7/18/90

GPC Cleanup: (Y/N) N pH: NA Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		Q
99-09-2	3-Nitroaniline	3.	U	
83-32-9	Acenaphthene	2.	U	
51-28-5	2,4-Dinitrophenol	15.	U	
100-02-7	4-Nitrophenol	2.	U	
132-64-9	Dibenzofuran	1.	U	
121-14-2	2,4-Dinitrotoluene	1.	U	
84-66-2	Diethylphthalate	1.	U	
7005-72-3	4-Chlorophenyl-phenylether	1.	U	
86-73-7	Fluorene	1.	U	
100-01-6	4-Nitroaniline	3.	U	
534-52-1	4,6-Dinitro-2-methylphenol	15.	U	
86-30-6	N-Nitrosodiphenylamine (1)	2.	U	
101-55-3	4-Bromophenyl-phenylether	2.	U	
118-74-1	Hexachlorobenzene	2.	U	
87-86-5	Pentachlorophenol	2.	U	
85-01-8	Phenanthrene	1.	U	
120-12-7	Anthracene	3.	U	
84-74-2	Di-n-butylphthalate	2.	U	
206-44-0	Fluoranthene	2.	U	
129-00-0	Pyrene	2.	U	
85-68-7	Butylbenzylphthalate	4.	U	
56-55-3	Benzo(a)anthracene	2.	U	
218-01-9	Chrysene	2.	U	
117-81-7	bis(2-Ethylhexyl)phthalate	1.	U	X
117-84-0	Di-n-octylphthalate	2.	U	
205-99-2	Benzo(b)fluoranthene	2.	U	
207-08-9	Benzo(k)fluoranthene	2.	U	
50-32-8	Benzo(a)pyrene	2.	U	
193-39-5	Indeno(1,2,3-cd)pyrene	4.	U	
53-70-3	Dibenzo(a,h)anthracene	3.	U	
191-24-2	Benzo(g,h,i)perylene	4.	U	

(1) - Cannot be separated from Diphenylamine

TENTATIVELY IDENTIFIED COMPOUNDS YES[ ] NO[✓]

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT20S53

Study Name:PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FT20S53

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >BP274

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec.____ dec. ____ Date Extracted:07/13/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH:NA Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	2.	IU
111-44-4	bis(2-Chloroethyl)Ether	2.	IU
95-57-8	2-Chlorophenol	2.	IU
541-73-1	1,3-Dichlorobenzene	2.	IU
106-46-7	1,4-Dichlorobenzene	2.	IU
100-51-6	Benzyl alcohol	2.	IU
95-50-1	1,2-Dichlorobenzene	3.	IU
95-48-7	2-Methylphenol	1.	IU
39638-32-9	bis(2-chloroisopropyl)ether	3.	IU
106-44-5	4-Methylphenol	1.	IU
621-64-7	N-Nitroso-Di-n-propylamine	2.	IU X
67-72-1	Hexachloroethane	2.	IU
98-95-3	Nitrobenzene	3.	IU
78-59-1	Isophorone	3.	IU
88-75-5	2-Nitrophenol	2.	IU
105-67-9	2,4-Dimethylphenol	2.	IU
65-85-0	Benzoic acid	30.	IU
111-91-1	bis(2-Chloroethoxy)methane	3.	IU
120-83-2	2,4-Dichlorophenol	2.	IU
120-82-1	1,2,4-Trichlorobenzene	2.	IU
91-20-3	Naphthalene	2.	IU
106-47-8	4-Chloroaniline	2.	IU
87-68-3	Hexachlorobutadiene	2.	IU
59-50-7	4-Chloro-3-methylphenol	2.	IU
91-57-6	2-Methylnaphthalene	2.	IU
77-47-4	Hexachlorocyclopentadiene	2.	IU
88-06-2	2,4,6-Trichlorophenol	2.	IU
95-95-4	2,4,5-Trichlorophenol	2.	IU
91-58-7	2-Chloronaphthalene	2.	IU
88-74-4	2-Nitroaniline	3.	IU
131-11-3	Dimethylphthalate	2.	IU
208-96-8	Acenaphthylene	2.	IU
606-20-2	2,6-Dinitrotoluene	1.	IU

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT20S53

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FT20S53

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >BP274

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec.____ dec. ____ Date Extracted: 07/13/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: NA Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	3.	IU
83-32-9	Acenaphthene	2.	IU
51-28-5	2,4-Dinitrophenol	15.	IU
100-02-7	4-Nitrophenol	2.	IU
132-64-9	Dibenzofuran	1.	IU
121-14-2	2,4-Dinitrotoluene	1.	IU
84-66-2	Diethylphthalate	1.	IU
7005-72-3	4-Chlorophenyl-phenylether	1.	IU
86-73-7	Fluorene	1.	IU
100-01-6	4-Nitroaniline	3.	IU
534-52-1	4,6-Dinitro-2-methylphenol	15.	IU
86-30-6	N-Nitrosodiphenylamine (1)	2.	IU
101-55-3	4-Bromophenyl-phenylether	2.	IU
118-74-1	Hexachlorobenzene	2.	IU
87-86-5	Pentachlorophenol	2.	IU
85-01-8	Phenanthrene	1.	IU
120-12-7	Anthracene	3.	IU
84-74-2	Di-n-butylphthalate	2.	IU
206-44-0	Fluoranthene	2.	IU
129-00-0	Pyrene	2.	IU
85-68-7	Butylbenzylphthalate	4.	IU
56-55-3	Benzo(a)anthracene	2.	IU
218-01-9	Chrysene	2.	IU
117-81-7	bis(2-Ethylhexyl)phthalate	1.	IU
117-84-0	Di-n-octylphthalate	2.	IU
205-99-2	Benzo(b)fluoranthene	2.	IU
207-08-9	Benzo(k)fluoranthene	2.	IU
50-32-8	Benzo(a)pyrene	2.	IU
193-39-5	Indeno(1,2,3-cd)pyrene	4.	IU
53-70-3	Dibenzo(a,h)anthracene	3.	IU
191-24-2	Benzo(g,h,i)perylene	4.	IU

(1) - Cannot be separated from Diphenylamine

TENTATIVELY IDENTIFIED COMPOUNDS YES[ ] NO[✓]

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT20S54

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FT20S54

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >BP270

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec.____ dec. ____ Date Extracted: 07/13/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: NA Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	2.	U
111-44-4	bis(2-Chloroethyl)Ether	2.	U
95-57-8	2-Chlorophenol	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
100-51-6	Benzyl alcohol	2.	U
95-50-1	1,2-Dichlorobenzene	3.	U
95-48-7	2-Methylphenol	1.	U
39638-32-9	bis(2-chloroisopropyl)ether	3.	U
106-44-5	4-Methylphenol	1.	U
621-64-7	N-Nitroso-Di-n-propylamine	2.	U
67-72-1	Hexachloroethane	2.	U
98-95-3	Nitrobenzene	3.	U
78-59-1	Isophorone	3.	U
88-75-5	2-Nitrophenol	2.	U
105-67-9	2,4-Dimethylphenol	2.	U
65-85-0	Benzoic acid	30.	U
111-91-1	bis(2-Chloroethoxy)methane	3.	U
120-83-2	2,4-Dichlorophenol	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	2.	U
106-47-8	4-Chloroaniline	2.	U
87-68-3	Hexachlorobutadiene	2.	U
59-50-7	4-Chloro-3-methylphenol	2.	U
91-57-6	2-Methylnaphthalene	2.	U
77-47-4	Hexachlorocyclopentadiene	2.	U
88-06-2	2,4,6-Trichlorophenol	2.	U
95-95-4	2,4,5-Trichlorophenol	2.	U
91-58-7	2-Chloronaphthalene	2.	U
88-74-4	2-Nitroaniline	3.	U
131-11-3	Dimethylphthalate	2.	U
208-96-8	Acenaphthylene	2.	U
606-20-2	2,6-Dinitrotoluene	1.	U

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT20S54

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FT20S54

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >BP270

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec.____ dec. ____ Date Extracted: 07/13/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: NA Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	3.	U
83-32-9	Acenaphthene	2.	U
51-28-5	2,4-Dinitrophenol	15.	U
100-02-7	4-Nitrophenol	2.	U
132-64-9	Dibenzofuran	1.	U
121-14-2	2,4-Dinitrotoluene	1.	U
84-66-2	Diethylphthalate	1.	U
7005-72-3	4-Chlorophenyl-phenylether	1.	U
86-73-7	Fluorene	1.	U
100-01-6	4-Nitroaniline	3.	U
534-52-1	4,6-Dinitro-2-methylphenol	15.	U
86-30-6	N-Nitrosodiphenylamine (1)	2.	U
101-55-3	4-Bromophenyl-phenylether	2.	U
118-74-1	Hexachlorobenzene	2.	U
87-86-5	Pentachlorophenol	2.	U
85-01-8	Phenanthrene	1.	U
120-12-7	Anthracene	3.	U
84-74-2	Di-n-butylphthalate	2.	U
206-44-0	Fluoranthene	2.	U
129-00-0	Pyrene	2.	U
85-68-7	Butylbenzylphthalate	4.	U
56-55-3	Benzo(a)anthracene	2.	U
218-01-9	Chrysene	2.	U
117-81-7	bis(2-Ethylhexyl)phthalate	1.	U
117-84-0	Di-n-octylphthalate	2.	U
205-99-2	Benzo(b)fluoranthene	2.	U
207-08-9	Benzo(k)fluoranthene	2.	U
50-32-8	Benzo(a)pyrene	2.	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.	U
53-70-3	Dibenzo(a,h)anthracene	3.	U
191-24-2	Benzo(g,h,i)perylene	4.	U

(1) - Cannot be separated from Diphenylamine

TENTATIVELY IDENTIFIED COMPOUNDS YES[ ] NO[✓]

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT20D54

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FT20D54

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >BP271

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec.____ dec. ____ Date Extracted: 07/13/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: NA Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	
108-95-2	Phenol	2.	U	
111-44-4	bis(2-Chloroethyl)Ether	2.	U	
95-57-8	2-Chlorophenol	2.	U	
541-73-1	1,3-Dichlorobenzene	2.	U	
106-46-7	1,4-Dichlorobenzene	2.	U	
100-51-6	Benzyl alcohol	2.	U	
95-50-1	1,2-Dichlorobenzene	3.	U	
95-48-7	2-Methylphenol	1.	U	
39638-32-9	bis(2-chloroisopropyl)ether	3.	U	
106-44-5	4-Methylphenol	1.	U	
621-64-7	N-Nitroso-Di-n-propylamine	2.	U	X
67-72-1	Hexachloroethane	2.	U	
98-95-3	Nitrobenzene	3.	U	
78-59-1	Isophorone	3.	U	
88-75-5	2-Nitrophenol	2.	U	
105-67-9	2,4-Dimethylphenol	2.	U	
65-85-0	Benzoic acid	30.	U	
111-91-1	bis(2-Chloroethoxy)methane	3.	U	
120-83-2	2,4-Dichlorophenol	2.	U	
120-82-1	1,2,4-Trichlorobenzene	2.	U	
91-20-3	Naphthalene	2.	U	
106-47-8	4-Chloroaniline	2.	U	
87-68-3	Hexachlorobutadiene	2.	U	
59-50-7	4-Chloro-3-methylphenol	2.	U	
91-57-6	2-Methylnaphthalene	2.	U	
77-47-4	Hexachlorocyclopentadiene	2.	U	
88-06-2	2,4,6-Trichlorophenol	2.	U	
95-95-4	2,4,5-Trichlorophenol	2.	U	
91-58-7	2-Chloronaphthalene	2.	U	
88-74-4	2-Nitroaniline	3.	U	
131-11-3	Dimethylphthalate	2.	U	
208-96-8	Acenaphthylene	2.	U	
606-20-2	2,6-Dinitrotoluene	1.	U	

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT20D54

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FT20D54

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >BP271

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec.____ dec. ____ Date Extracted: 07/13/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: NA Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	3.	U
83-32-9	Acenaphthene	2.	U
51-28-5	2,4-Dinitrophenol	15.	U
100-02-7	4-Nitrophenol	2.	U
132-64-9	Dibenzofuran	1.	U
121-14-2	2,4-Dinitrotoluene	1.	U
84-66-2	Diethylphthalate	1.	U
7005-72-3	4-Chlorophenyl-phenylether	1.	U
86-73-7	Fluorene	1.	U
100-01-6	4-Nitroaniline	3.	U
534-52-1	4,6-Dinitro-2-methylphenol	15.	U
86-30-6	N-Nitrosodiphenylamine (1)	2.	U
101-55-3	4-Bromophenyl-phenylether	2.	U
118-74-1	Hexachlorobenzene	2.	U
87-86-5	Pentachlorophenol	2.	U
85-01-8	Phenanthrene	1.	U
120-12-7	Anthracene	3.	U
84-74-2	Di-n-butylphthalate	2.	U
206-44-0	Fluoranthene	2.	U
129-00-0	Pyrene	2.	U
85-68-7	Butylbenzylphthalate	4.	U
56-55-3	Benzo(a)anthracene	2.	U
218-01-9	Chrysene	2.	U
117-81-7	bis(2-Ethylhexyl)phthalate	1.	U
117-84-0	Di-n-octylphthalate	2.	U
205-99-2	Benzo(b)fluoranthene	2.	U
207-08-9	Benzo(k)fluoranthene	2.	U
50-32-8	Benzo(a)pyrene	2.	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.	U
53-70-3	Dibenzo(a,h)anthracene	3.	U
191-24-2	Benzo(g,h,i)perylene	4.	U

(1) - Cannot be separated from Diphenylamine

TENTATIVELY IDENTIFIED COMPOUNDS YES[ ] NO[✓]

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT~~20~~02R95

BB 8/29/90

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FT20R95

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >BP272

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec.____ dec. ____ Date Extracted: 07/13/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: NA Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		Q
108-95-2	Phenol	2.	U	
111-44-4	bis(2-Chloroethyl)Ether	2.	U	
95-57-8	2-Chlorophenol	2.	U	
541-73-1	1,3-Dichlorobenzene	2.	U	
106-46-7	1,4-Dichlorobenzene	2.	U	
100-51-6	Benzyl alcohol	2.	U	
95-50-1	1,2-Dichlorobenzene	3.	U	
95-48-7	2-Methylphenol	1.	U	
39638-32-9	bis(2-chloroisopropyl)ether	3.	U	X
106-44-5	4-Methylphenol	1.	U	
621-64-7	N-Nitroso-Di-n-propylamine	2.	U	X
67-72-1	Hexachloroethane	2.	U	
98-95-3	Nitrobenzene	3.	U	
78-59-1	Isophorone	3.	U	
88-75-5	2-Nitrophenol	2.	U	
105-67-9	2,4-Dimethylphenol	2.	U	
65-85-0	Benzoic acid	30.	U	
111-91-1	bis(2-Chloroethoxy)methane	3.	U	
120-83-2	2,4-Dichlorophenol	2.	U	
120-82-1	1,2,4-Trichlorobenzene	2.	U	
91-20-3	Naphthalene	2.	U	
106-47-8	4-Chloroaniline	2.	U	
87-68-3	Hexachlorobutadiene	2.	U	
59-50-7	4-Chloro-3-methylphenol	2.	U	
91-57-6	2-Methylnaphthalene	2.	U	
77-47-4	Hexachlorocyclopentadiene	2.	U	
88-06-2	2,4,6-Trichlorophenol	2.	U	
95-95-4	2,4,5-Trichlorophenol	2.	U	
91-58-7	2-Chloronaphthalene	2.	U	
88-74-4	2-Nitroaniline	3.	U	
131-11-3	Dimethylphthalate	2.	U	
208-96-8	Acenaphthylene	2.	U	
606-20-2	2,6-Dinitrotoluene	1.	U	

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT~~20~~02R95

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FT20R95

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >BP272

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec.____ dec. ____ Date Extracted: 07/13/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: NA Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	3.	U
83-32-9	Acenaphthene	2.	U
51-28-5	2,4-Dinitrophenol	15.	U
100-02-7	4-Nitrophenol	2.	U
132-64-9	Dibenzofuran	1.	U
121-14-2	2,4-Dinitrotoluene	1.	U
84-66-2	Diethylphthalate	1.	U
7005-72-3	4-Chlorophenyl-phenylether	1.	U
86-73-7	Fluorene	1.	U
100-01-6	4-Nitroaniline	3.	U
534-52-1	4,6-Dinitro-2-methylphenol	15.	U
86-30-6	N-Nitrosodiphenylamine (1)	2.	U
101-55-3	4-Bromophenyl-phenylether	2.	U
118-74-1	Hexachlorobenzene	2.	U
87-86-5	Pentachlorophenol	2.	U
85-01-8	Phenanthrene	1.	U
120-12-7	Anthracene	3.	U
84-74-2	Di-n-butylphthalate	2.	U
206-44-0	Fluoranthene	2.	U
129-00-0	Pyrene	2.	U
85-68-7	Butylbenzylphthalate	4.	U
56-55-3	Benzo(a)anthracene	2.	U
218-01-9	Chrysene	2.	U
117-81-7	bis(2-Ethylhexyl)phthalate	1.	U
117-84-0	Di-n-octylphthalate	2.	U
205-99-2	Benzo(b)fluoranthene	2.	U
207-08-9	Benzo(k)fluoranthene	2.	U
50-32-8	Benzo(a)pyrene	2.	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.	U
53-70-3	Dibenzo(a,h)anthracene	3.	U
191-24-2	Benzo(g,h,i)perylene	4.	U

(1) - Cannot be separated from Diphenylamine

TENTATIVELY IDENTIFIED COMPOUNDS YES[✓] NO[ ]

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

02
90FT~~20~~R95

8/24/90

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FT20R95

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >BP272

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec.____ dec. ____ Date Extracted: 07/13/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: NA Dilution Factor: 1.00000

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	119619	Benzophenone (8CI)	16.92	5.	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Date : August 29, 1990

To : Files

From : Nidia Feliciano

Re : Dataset SF7262 Narrative

Four (4) low level water samples (90FT20S53, S54, D54 and 90FT02R95) from dataset SF7262 were submitted for acid base neutral (ABN) analysis by GC/MS utilizing EPA method 625NS.

All Samples were extracted within the seven (7) days of sampling. All DFTPP tune criteria were met.

One initial calibration is associated with the above data set. The calibration was analyzed on 7/20/90.

No continuing calibration was needed. All samples were analyzed immediately following the initial calibration.

All internal standard areas are within the QC limits for all the samples analyzed.

All Surrogates are within the QC limits for all the samples, except for samples 90FT20S53, 90FT20D53, 90FT20S53MS and 90FT20S53MSD. ~~were~~ Phenol-d5, 2-Fluorophenol and 2,4,6-Tribromophenol recoveries were below the detection limits. Samples show no interferences. Posible lost for the acid frction happen during sample extraction/concentration procedure.

Sample 90FT20S53 was used for matrix spike and matrix spike duplicate (Form 3C) analysis. Matrix spike recoveries were acceptable, but high recoveries had been observe for several compounds in the matrix spike duplicate. Compound 1,2,4-Trichlorobenzene, 2,4-Dinitrotoluene and Pyrene. Native sample show no interference that might cause high recoveries, and the low recoveries for the acid fraction. Compounds Phenol, 2-Chlorophenol, 4-Chloro-3-methylphenol were affected. Posible lost for the acid fraction happen during sample preparation.

One method blank was extracted with the samples (FORM 4B). No TICs were reported.

One field blank 90FF02R98 was associated with this set. One TIC was reported.

Sample 90FT20S53 and its duplicate 90FT20D53 correlated reasonably well.

All samples were negative for Acid/Base/Neutral compounds.

ESAT CONTRACT TID NO: 07-13

TASK NO: 3194

ENVIRONMENTAL SAMPLE EXTRACT CUSTODY TRANSFER FORM

Sample extraction was completed on 07/17, 1990 for:

DATASET NO: 9F7262 SITE NAME: Peerless Gain Co

PARAMETER : ABN

MATRIX : Water SF DU/ACT NO: TFA302 Y____ /C____

SAMPLE NUMBERS: 90FT20SS3, SS4, DS4, 90FT02R95

NUMBER OF SAMPLES: 4

ESAT APPROVALS:

Anthony Konsky 07/17/90
(ANALYST DATE)

[illegible] 7/17/90
(TEAM LEADER DATE)

(QC COORDINATOR DATE)

P. Hersh 7-17-90
(ESAT TEAM MANAGER DATE)

COMMENTS:

The subject sample extracts were transferred to the custody of the U.S. EPA Region V Central Regional Laboratory on the date indicated below.

Anthony Konsky 07/17/90
(DELIVERED BY DATE)

[illegible] 7/17/90
(RECEIVED BY DATE)

EPA APPROVALS:

Robin Palmchuk 8/29/90
(EPA TASK MONITOR DATE)

[✓] Reviewed
[ ] Unreviewed
[✓] Accepted
[ ] Rejected
[ ] Returned/_____ (Date)

COMMENTS: Ratings: Tech quality: 2.0, compliance w schedule: 2.0
(Sample Prep Only)

[illegible] 9/7/90
(SECTION CHIEF DATE)

[✓] Reviewed [ ] Unreviewed

(ESAT DPO DATE)

(DATA COORD'R REC'D TRANSMTD)

A:[bs]FORMS[bs]EXTTRANS.FRM WS
DOC.NO.: ESAT-05-0167-FORM
REVISION: NEW

FILE LOCATION NO: 5.6.

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

TFA302

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 7/11/90 LAB ARRIVAL DATE 7/12/90 DUE DATE 8/~~1~~2/90

DU NUMBER TFA ~~302~~ DATA SET NUMBER 7262 STUDY PEERLESS CHAIN CO. PRIORITY — CONTRACTOR —

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17564	WATER ABN ORGANICS SCAN UG/L TOX 17574	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
90FT20S53	RW1 + MSD 5-089107-08-09 5-089115-119	X			
S54	RW2 5-089126-28	X			
D54	DUP 5-089135-37	X			
90FT02R95	BLANK 5-089144-6	X			
90FT20S53	RW1/MSD 5-089104 5-089110-111		X		
90FT20S54	RW2 5-089123		X		
90FT20D54	DUPLICATE 5-089132		X		
90FT02R95	BLANK 5-089141		X		
	Shipment is Complete				

U. S. EPA - REGION V
WATER SEMIVOLATILE SURROGATE RECOVERY

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	METHODBLAN	71	70	95	41	65	87		0
02	90FT20S53	92	100	125	0 *	0 *	5 *		3
03	90FT20S54	61	62	76	32	48	66		0
04	90FT20D54	95	103	88	33	53	79		0
05	90FT~~20~~8R95	74	76	92	35	51	79		0
06	90FT20S53MS	81	75	115	9 *	11 *	25		2
07	90FT20S53MD	96	81	130	0 *	2 *	17		2
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl-d14	(33-141)
S4 (PHL)	= Phenol-d5	(10-94)
S5 (2FP)	= 2-Fluorophenol	(21-100)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

FORM II SV-1 1/87 Rev.

U. S. EPA - REGION V
WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Matrix Spike - EPA Sample No.: 90FT20S53M

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#	QC LIMITS REC.
Phenol	75.00	0.00	9.70	13		12- 89
2-Chlorophenol	75.00	0.00	14.00	19	*	27-123
1,4-Dichlorobenzene	75.00	0.00	37.00	49		36- 97
N-Nitroso-di-n-prop.(1)	90.00	0.00	86.00	96		41-116
1,2,4-Trichlorobenzene	75.00	0.00	57.00	76		39- 98
4-Chloro-3-methylphenol	75.00	0.00	22.00	29		23- 97
Acenaphthene	75.00	0.00	43.00	57		46-118
4-Nitrophenol	75.00	0.00	38.00	50		10- 80
2,4-Dinitrotoluene	75.00	0.00	72.00	95		24- 96
Pentachlorophenol	75.00	0.00	37.00	49		9-103
Pyrene	75.00	0.00	89.00	118		26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
Phenol	75.00	.70	1	*	155	*	42	12- 89
2-Chlorophenol	75.00	4.70	6	*	104	*	40	27-123
1,4-Dichlorobenzene	75.00	59.00	78		45	*	28	36- 97
N-Nitroso-di-n-prop.(1)	90.00	87.00	76		1		38	41-116
1,2,4-Trichlorobenzene	75.00	86.00	114	*	41	*	28	39- 98
4-Chloro-3-methylphenol	75.00	2.00	3	*	173	*	42	23- 97
Acenaphthene	75.00	53.00	70		20		31	46-118
4-Nitrophenol	75.00	34.00	45		12		50	10- 80
2,4-Dinitrotoluene	75.00	75.00	100	*	5		38	24- 96
Pentachlorophenol	75.00	38.00	51		4		50	9-103
Pyrene	75.00	100.00	134	*	13		31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of qc limits

RPD: 5 out of 11 outside limits
Spike Recovery: 7 out of 22 outside limits

COMMENTS: Sample extraction/concentration techniques should be monitored since MS data were acceptable but not MSD, the unspiked sample was free from contaminants (Residential Well Sample).

U. S. EPA - REGION V
SEMIVOLATILE METHOD BLANK SUMMARY

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Lab File ID: >BP268 Lab Sample ID: METHODBLANK

Date Extracted 07/13/90 Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 7/18/90 Time Analyzed: 23:08

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: 87 1

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	90FT20S53	90FT20S53	>BP274	7/19/90
02	90FT20S54	90FT20S54	>BP270	7/19/90
03	90FT20D54	90FT20D54	>BP271	7/19/90
04	90FT20R95	90FT20R95	>BP272	7/19/90
05	90FT20S53MS	90FT20S53MS	>BP273	7/19/90
06	90FT20S53MSD	90FT20S53MSD	>BP269	7/18/90
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

FORM IV SV 1/87 Rev.

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Study Name: PEERLESS CHAIN CO., INC. Contract: 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Lab File ID: >BP257 DFTPP Injection Date: 7/18/90

Instrument ID: 87 1 DFTPP Injection Time: 13:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	37.5
68	Less than 2.0% of mass 69	.7(1.0)1
69	Mass 69 relative abundance	64.
70	Less than 2.0% of mass 69	.7(1.1)1
127	40.0 - 60.0% of mass 198	55.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.
199	5.0 - 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	18.3
365	Greater than 1.00% of mass 198	2.14
441	Present, but less than mass 443	6.4
442	Greater than 40.0% of mass 198	40.7
443	17.0 - 23.0% of mass 442	7.1(17.3)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	TOXSTD100PP	TOXSTD100PPM	>BP258	7/18/90	14:32
02	TOXSTD50PPM	TOXSTD50PPM	>BP259	7/18/90	15:24
03	TOXSTD25PPM	TOXSTD25PPM	>BP260	7/18/90	16:16
04	METHODBLANK	METHODBLANK	>BP268	7/18/90	23:08
05	90FT20S53MS	90FT20S53MSD	>BP269	7/18/90	23:59
06	90FT20S54	90FT20S54	>BP270	7/19/90	0:51
07	90FT20D54	90FT20D54	>BP271	7/19/90	1:42
08	90FT20R95	90FT20R95	>BP272	7/19/90	2:34
09	90FT20S53MS	90FT20S53MS	>BP273	7/19/90	3:26
10	90FT20S53	90FT20S53	>BP274	7/19/90	4:17
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV 1/87 Rev.

U. S. EPA - [illegible]

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Study Name:BASIC, INC. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7261 SAS No.: BASIC SDG No.: TFA302

Instrument ID: 87 1 Calibration Date(s):07/20/90 07/20/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 35.0%

LAB FILE ID: RRF25 =>BP260 RRF50 =>BP259
RRF100 =>BP258

COMPOUND	RRF25	RRF50	RRF100			$\overline{RRF}$	% RSD
Phenol *	1.631	1.483	1.865	0.000	0.000	1.659	11.6*
bis(2-Chloroethyl)ether	1.560	1.418	1.871	0.000	0.000	1.616	14.3
2-Chlorophenol	1.327	1.228	1.677	0.000	0.000	1.411	16.7
1,3-Dichlorobenzene	1.362	1.280	1.653	0.000	0.000	1.432	13.7
1,4-Dichlorobenzene *	1.549	1.472	1.935	0.000	0.000	1.652	15.0*
Benzyl alcohol	.751	.729	.944	0.000	0.000	.808	14.7
1,2-Dichlorobenzene	1.451	1.355	1.885	0.000	0.000	1.563	18.1
2-Methylphenol	1.198	1.034	1.387	0.000	0.000	1.206	14.6
bis(2-chloroisopropyl)ether	.465	.413	.556	0.000	0.000	.478	15.2
4-Methylphenol	1.145	1.047	1.398	0.000	0.000	1.197	15.1
N-Nitroso-di-n-propylamine #	.857	.741	.824	0.000	0.000	.808	7.4#
Hexachloroethane	.505	.478	.580	0.000	0.000	.521	10.2
Nitrobenzene	.710	.622	.790	0.000	0.000	.707	11.9
Isophorone	2.232	1.995	2.249	0.000	0.000	2.159	6.6
2-Nitrophenol *	.638	.565	.730	0.000	0.000	.644	12.9*
2,4-Dimethylphenol	.812	.704	.975	0.000	0.000	.830	16.4
Benzoic acid	.354	.399	.559	0.000	0.000	.438	24.6
bis(2-Chloroethoxy)methane	1.573	1.347	1.738	0.000	0.000	1.553	12.6
2,4-Dichlorophenol *	.814	.786	1.022	0.000	0.000	.874	14.7*
1,2,4-Trichlorobenzene	.903	.803	1.110	0.000	0.000	.939	16.7
Naphthalene	3.101	2.702	4.008	0.000	0.000	3.271	20.5
4-Chloroaniline	.406	.373	.439	0.000	0.000	.406	8.2
Hexachlorobutadiene *	.626	.539	.711	0.000	0.000	.625	13.7*
4-Chloro-3-methylphenol *	.815	.765	.925	0.000	0.000	.835	9.8*
2-Methylnaphthalene	1.303	1.246	1.836	0.000	0.000	1.462	22.2
Hexachlorocyclopentadiene #	.353	.344	.541	0.000	0.000	.413	26.9#
2,4,6-Trichlorophenol *	.383	.344	.457	0.000	0.000	.395	14.5*
2,4,5-Trichlorophenol	.365	.345	.466	0.000	0.000	.392	16.6
2-Chloronaphthalene	1.087	1.042	1.487	0.000	0.000	1.205	20.3
2-Nitroaniline	.400	.368	.488	0.000	0.000	.419	14.9
Dimethylphthalate	1.054	.898	1.169	0.000	0.000	1.040	13.1
Acenaphthylene	2.697	3.526	4.404	0.000	0.000	3.542	24.1
2,6-Dinitrotoluene	.485	.576	.630	0.000	0.000	.564	13.0
3-Nitroaniline	.504	.570	.699	0.000	0.000	.591	16.7
Acenaphthene *	1.838	2.371	2.934	0.000	0.000	2.381	23.0*
2,4-Dinitrophenol #	.134	.179	.227	0.000	0.000	.180	25.9#
4-Nitrophenol #	.221	.223	.259	0.000	0.000	.234	9.2#

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Study Name:BASIC, INC. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7261 SAS No.: BASIC SDG No.: TFA302

Instrument ID: 87 1 Calibration Date(s):07/20/90 07/20/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 35.0%

LAB FILE ID: RRF25 =>BP260 RRF50 =>BP259
RRF100 =>BP258

COMPOUND	RRF25	RRF50	RRF100			$\overline{RRF}$	% RSD
Dibenzofuran	1.995	2.464	3.046	0.000	0.000	2.502	21.0
2,4-Dinitrotoluene	.460	.485	.549	0.000	0.000	.498	9.2
Diethylphthalate	1.690	1.776	1.949	0.000	0.000	1.805	7.3
4-Chlorophenyl-phenylether	.778	.922	1.096	0.000	0.000	.932	17.1
Fluorene	1.282	1.540	1.930	0.000	0.000	1.584	20.6
4-Nitroaniline	.381	.368	.386	0.000	0.000	.378	2.5
4,6-Dinitro-2-methylphenol	.140	.141	.161	0.000	0.000	.147	8.1
N-Nitrosodiphenylamine (1) *	.451	.468	.336	0.000	0.000	.418	17.2*
4-Bromophenyl-phenylether	.348	.389	.448	0.000	0.000	.395	12.8
Hexachlorobenzene	.264	.276	.309	0.000	0.000	.283	8.3
Pentachlorophenol *	.131	.130	.163	0.000	0.000	.141	13.4*
Phenanthrene	1.097	1.087	1.274	0.000	0.000	1.153	9.1
Anthracene	1.023	1.064	1.254	0.000	0.000	1.114	11.1
Di-n-butylphthalate	1.422	1.244	1.293	0.000	0.000	1.320	7.0
Fluoranthene *	.688	.619	.632	0.000	0.000	.646	5.7*
Pyrene	.672	.588	.614	0.000	0.000	.624	6.9
Butylbenzylphthalate	.445	.410	.324	0.000	0.000	.393	15.8
Benzo(a)anthracene	.436	.374	.281	0.000	0.000	.363	21.4
Chrysene	.400	.368	.280	0.000	0.000	.349	17.8
bis(2-Ethylhexyl)phthalate	.559	.477	.363	0.000	0.000	.466	21.1
Di-n-octylphthalate *	4.098	3.872	5.806	0.000	0.000	4.592	23.0*
Benzo(b)fluoranthene	1.359	1.434	1.621	0.000	0.000	1.471	9.2
Benzo(k)fluoranthene	1.543	1.409	1.777	0.000	0.000	1.576	11.8
Benzo(a)pyrene *	1.103	.971	1.245	0.000	0.000	1.106	12.4*
Indeno(1,2,3-cd)pyrene	.265	.282	.509	0.000	0.000	.352	38.7
Dibenzo(a,h)anthracene	.194	.228	.460	0.000	0.000	.294	49.2
Benzo(g,h,i)perylene	.295	.251	.447	0.000	0.000	.331	31.2
Nitrobenzene-d5	1.617	1.398	1.683	0.000	0.000	1.566	9.5
2-Fluorobiphenyl	1.652	1.542	2.280	0.000	0.000	1.825	21.8
Terphenyl-d14	.581	.504	.532	0.000	0.000	.539	7.2
Phenol-d5	1.699	1.597	1.930	0.000	0.000	1.742	9.8
2-Fluorophenol	1.417	1.391	1.607	0.000	0.000	1.471	8.0
2,4,6-Tribromophenol	.219	.222	.264	0.000	0.000	.235	10.7

(1) Cannot be separated from Diphenylamine

U. S. EPA - REGION V
SEMI-VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name:PEERLESS CHAIN CO. Contract:5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERCHA SDG No.: TFA302

Lab File ID (Standard): >BP259 Date Analyzed: 7/18/90

Instrument ID: 87 1 Time Analyzed: 15:24

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(DCB) AREA #	RT	IS2(PHN) AREA #	RT	IS3(PRY) AREA #	RT
	12 HOUR STD	311176.	5.74	118736.	18.87	17825.	31.17
	UPPER LIMIT	622352.		237472.		35650.	
	LOWER LIMIT	155588.		59368.		8913.	
	EPA SAMPLE NO.						
01	METHODBLANK	252964.	5.81	177194.	18.98	29251.	31.32
02	90FT20S53	207714.	5.93	194687.	19.18	32436.	31.56
03	90FT20S54	251918.	5.82	189039.	19.00	20235.	31.34
04	90FT20D54	253269.	5.83	193463.	19.01	23341.	31.37
05	90FT20R95	262522.	5.85	181106.	19.05	19081.	31.41
06	90FT20S53MS	215514.	5.87	146387.	19.08	26620.	31.60
07	90FT20S53MSD	224927.	5.83	131417.	19.01	26291.	31.34
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (PHN) = d-10-Phenanthrene
IS3 (PRY) = d12-Perylene

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

Column used to flag internal standard area values with an asterisk

FORM VIII SV-1 1/87 Rev.

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT20S53MS

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FT20S53MS

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >BP273

FOR Q.C. ONLY

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec.____ dec. ____ Date Extracted: 07/13/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: NA Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q	
108-95-2	Phenol	10.		
111-44-4	bis(2-Chloroethyl)Ether	2.	U	
95-57-8	2-Chlorophenol	14.		
541-73-1	1,3-Dichlorobenzene	2.	U	X
106-46-7	1,4-Dichlorobenzene	37.		
100-51-6	Benzyl alcohol	2.	U	
95-50-1	1,2-Dichlorobenzene	3.	U	
95-48-7	2-Methylphenol	1.	U	
39638-32-9	bis(2-chloroisopropyl)ether	3.	U	
106-44-5	4-Methylphenol	1.	U	
621-64-7	N-Nitroso-Di-n-propylamine	86.		
67-72-1	Hexachloroethane	2.	U	
98-95-3	Nitrobenzene	3.	U	
78-59-1	Isophorone	3.	U	
88-75-5	2-Nitrophenol	9.		
105-67-9	2,4-Dimethylphenol	2.	U	
65-85-0	Benzoic acid	.2	J	
111-91-1	bis(2-Chloroethoxy)methane	3.	U	
120-83-2	2,4-Dichlorophenol	2.	U	
120-82-1	1,2,4-Trichlorobenzene	57.		
91-20-3	Naphthalene	2.	U	
106-47-8	4-Chloroaniline	2.	U	
87-68-3	Hexachlorobutadiene	2.	U	
59-50-7	4-Chloro-3-methylphenol	22.		
91-57-6	2-Methylnaphthalene	2.	U	
77-47-4	Hexachlorocyclopentadiene	2.	U	
88-06-2	2,4,6-Trichlorophenol	2.	U	
95-95-4	2,4,5-Trichlorophenol	2.	U	
91-58-7	2-Chloronaphthalene	2.	U	
88-74-4	2-Nitroaniline	3.	U	
131-11-3	Dimethylphthalate	2.	U	
208-96-8	Acenaphthylene	2.	U	
606-20-2	2,6-Dinitrotoluene	1.	U	

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT20S53MS

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FT20S53MS

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >BP273

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec.____ dec. ____ Date Extracted: 07/13/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 7/19/90

GPC Cleanup: (Y/N) N pH: NA Dilution Factor: 1.00000

FOR Q.C. ONLY

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	3.	U
83-32-9	Acenaphthene	43.	
51-28-5	2,4-Dinitrophenol	15.	U
100-02-7	4-Nitrophenol	38.	
132-64-9	Dibenzofuran	1.	U
121-14-2	2,4-Dinitrotoluene	72.	
84-66-2	Diethylphthalate	1.	U
7005-72-3	4-Chlorophenyl-phenylether	1.	U
86-73-7	Fluorene	1.	U
100-01-6	4-Nitroaniline	3.	U
534-52-1	4,6-Dinitro-2-methylphenol	15.	U
86-30-6	N-Nitrosodiphenylamine (1)	2.	U
101-55-3	4-Bromophenyl-phenylether	2.	U
118-74-1	Hexachlorobenzene	2.	U
87-86-5	Pentachlorophenol	37.	
85-01-8	Phenanthrene	1.	U
120-12-7	Anthracene	3.	U
84-74-2	Di-n-butylphthalate	2.	U
206-44-0	Fluoranthene	2.	U
129-00-0	Pyrene	89.	
85-68-7	Butylbenzylphthalate	4.	U
56-55-3	Benzo(a)anthracene	2.	U
218-01-9	Chrysene	2.	U
117-81-7	bis(2-Ethylhexyl)phthalate	1.	U
117-84-0	Di-n-octylphthalate	2.	U
205-99-2	Benzo(b)fluoranthene	2.	U
207-08-9	Benzo(k)fluoranthene	2.	U
50-32-8	Benzo(a)pyrene	2.	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.	U
53-70-3	Dibenzo(a,h)anthracene	3.	U
191-24-2	Benzo(g,h,i)perylene	4.	U

(1) - Cannot be separated from Diphenylamine

TENTATIVELY IDENTIFIED COMPOUNDS YES[ ] NO[ ]

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT20S53MSD

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FT20S53MS

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >BP269

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec.____ dec. ____ Date Extracted: 07/13/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 7/18/90

GPC Cleanup: (Y/N) N pH: NA Dilution Factor: 1.00000

FOR Q.C. ONLY

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	.7	J
111-44-4	bis(2-Chloroethyl)Ether	2.	U
95-57-8	2-Chlorophenol	5.	
541-73-1	1,3-Dichlorobenzene	68.	
106-46-7	1,4-Dichlorobenzene	59.	
100-51-6	Benzyl alcohol	2.	U
95-50-1	1,2-Dichlorobenzene	3.	U
95-48-7	2-Methylphenol	1.	U
39638-32-9	bis(2-chloroisopropyl)ether	3.	U
106-44-5	4-Methylphenol	1.	U
621-64-7	N-Nitroso-Di-n-propylamine	87.	
67-72-1	Hexachloroethane	2.	U
98-95-3	Nitrobenzene	3.	U
78-59-1	Isophorone	3.	U
88-75-5	2-Nitrophenol	10.	
105-67-9	2,4-Dimethylphenol	2.	U
65-85-0	Benzoic acid	30.	U
111-91-1	bis(2-Chloroethoxy)methane	3.	U
120-83-2	2,4-Dichlorophenol	2.	U
120-82-1	1,2,4-Trichlorobenzene	86.	
91-20-3	Naphthalene	2.	U
106-47-8	4-Chloroaniline	2.	U
87-68-3	Hexachlorobutadiene	2.	U
59-50-7	4-Chloro-3-methylphenol	2.	
91-57-6	2-Methylnaphthalene	2.	U
77-47-4	Hexachlorocyclopentadiene	2.	U
88-06-2	2,4,6-Trichlorophenol	2.	U
95-95-4	2,4,5-Trichlorophenol	2.	U
91-58-7	2-Chloronaphthalene	2.	U
88-74-4	2-Nitroaniline	3.	U
131-11-3	Dimethylphthalate	2.	U
208-96-8	Acenaphthylene	2.	U
606-20-2	2,6-Dinitrotoluene	1.	U

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT20S53MSD

Study Name: PEERLESS CHAIN CO. 5SCRL

Lab Code: CHICAGOIL Case No.: SF7262 SAS No.: PEERLES SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FT20S53MS

Sample wt/vol: 1000 (g/mL) mL Lab File ID: >BP269

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec.____ dec. ____ Date Extracted: 07/13/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 7/18/90

GPC Cleanup: (Y/N) N pH: NA Dilution Factor: 1.00000

FOR Q.C. ONLY

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	3.	U
83-32-9	Acenaphthene	53.	
51-28-5	2,4-Dinitrophenol	15.	U
100-02-7	4-Nitrophenol	34.	
132-64-9	Dibenzofuran	1.	U
121-14-2	2,4-Dinitrotoluene	75.	
84-66-2	Diethylphthalate	1.	U
7005-72-3	4-Chlorophenyl-phenylether	1.	U
86-73-7	Fluorene	1.	U
100-01-6	4-Nitroaniline	3.	U
534-52-1	4,6-Dinitro-2-methylphenol	15.	U
86-30-6	N-Nitrosodiphenylamine (1)	2.	U
101-55-3	4-Bromophenyl-phenylether	2.	U
118-74-1	Hexachlorobenzene	2.	U
87-86-5	Pentachlorophenol	38.	
85-01-8	Phenanthrene	1.	U
120-12-7	Anthracene	3.	U
84-74-2	Di-n-butylphthalate	2.	U
206-44-0	Fluoranthene	2.	U
129-00-0	Pyrene	100.	E
85-68-7	Butylbenzylphthalate	4.	U
56-55-3	Benzo(a)anthracene	2.	U
218-01-9	Chrysene	2.	U
117-81-7	bis(2-Ethylhexyl)phthalate	1.	U
117-84-0	Di-n-octylphthalate	2.	U
205-99-2	Benzo(b)fluoranthene	2.	U
207-08-9	Benzo(k)fluoranthene	2.	U
50-32-8	Benzo(a)pyrene	2.	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.	U
53-70-3	Dibenzo(a,h)anthracene	3.	U
191-24-2	Benzo(g,h,i)perylene	4.	U

(1) - Cannot be separated from Diphenylamine

TENTATIVELY IDENTIFIED COMPOUNDS YES[ ] NO[ ]

QUANT REPORT

Operator ID: KELLY Quant Rev: 6 Quant Time: 900720 13:48
Output File: BP268::C3 Injected at: 900718 23:08
Data File: >BP268::C3 Dilution Factor: 1.00000
Name: SF7262 METHODBLANK
Misc: 07/18/90 1L/1ML BTL#11

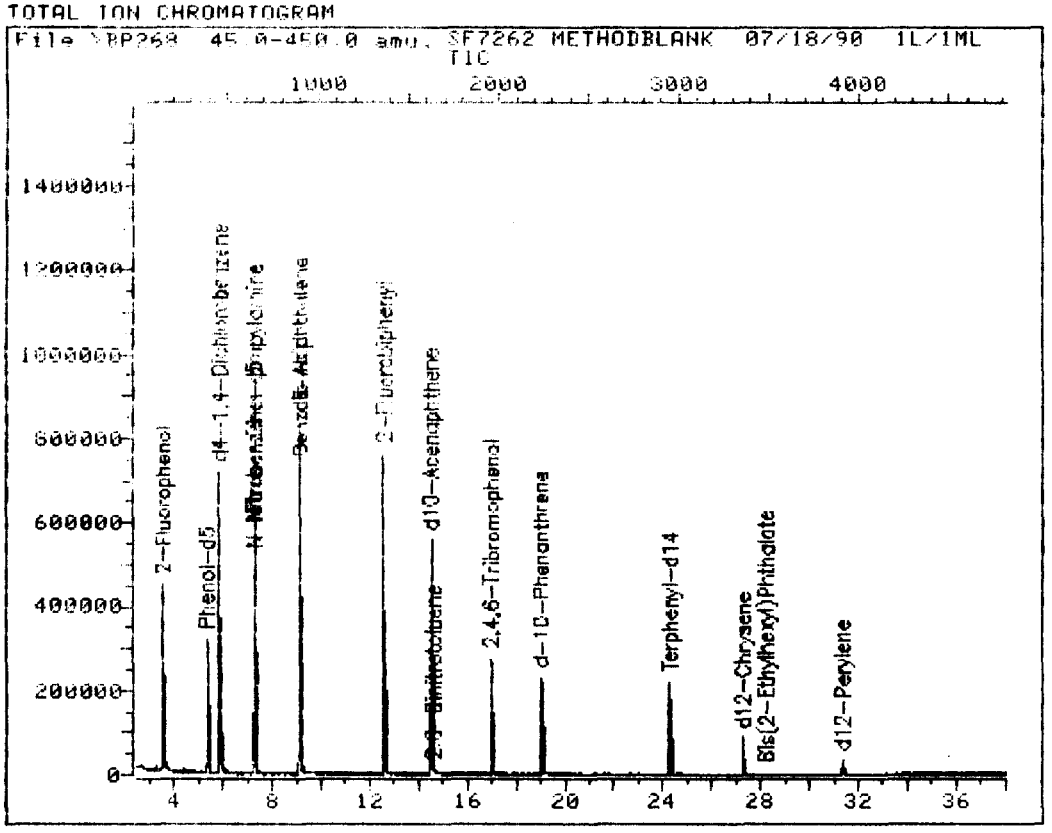
ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900720 11:16

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.81	449	252964	50.00	NG/UL	98
2)	2-Fluorophenol	3.52	139	365423	49.08	NG/UL	85
3)	Phenol-d5	5.29	378	272120	30.88	NG/UL	87
14)	~~N-Nitroso-Di-n-propylamine~~	7.24	642	53076	12.99	NG/UL	59
16)	d8-Naphthalene	9.11	896	860790	51.21	NG/UL	88
17)	Nitrobenzene-d5	7.23	641	420422	53.07	NG/UL	93
22)	~~Benzoic Acid~~	9.10	895	355	.16	NG/UL	76
31)	d10-Acenaphthene	14.46	1620	237925	63.81	NG/UL	92
36)	2-Fluorobiphenyl	12.56	1363	488094	52.87	NG/UL	94
39)	*d-10-Phenanthrene	18.98	2233	177194	50.00	NG/UL	99
47)	~~2,6-Dinitrotoluene~~	14.57	1635	586	.29	NG/UL	78
54)	2,4,6-Tribromophenol	16.94	1957	54650	65.61	NG/UL	96
62)	d12-Chrysene	27.24	3354	62033	57.08	NG/UL	94
64)	Terphenyl-d14	24.25	2948	136812	71.60	NG/UL	99
67)	~~Bis(2-Ethylhexyl)Phthalate~~	28.19	3483	1325	.80	NG/UL	88
69)	*d12-Perylene	31.32	3908	29251	50.00	NG/UL	95

* Compound is ISTD

NO Target
NO TIC

TOTAL ION CHROMATOGRAM



Data File: >BP268::C3 Quant Output File: ^BP268::C3
Name: SF7262 METHODBLANK
Misc: 07/18/90 1L/1ML BTL#11

Id File: IDBP1D::C4
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900628 15:27

Operator ID: KELLY
Quant Time: 900718 23:52
Injected at: 900718 23:08

QUANT REPORT

Operator ID: KELLY Quant Rev: 6 Quant Time: 900823 08:28
Output File: ^BP274::C8 Injected at: 900719 04:17
Data File: >BP274::C8 Dilution Factor: 1.00000
Name: SF7262 90FT20S53~~MSB~~ D.F. 8/27/90
Misc: 07/18/90 1L/1ML BTL#17

ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900720 11:16

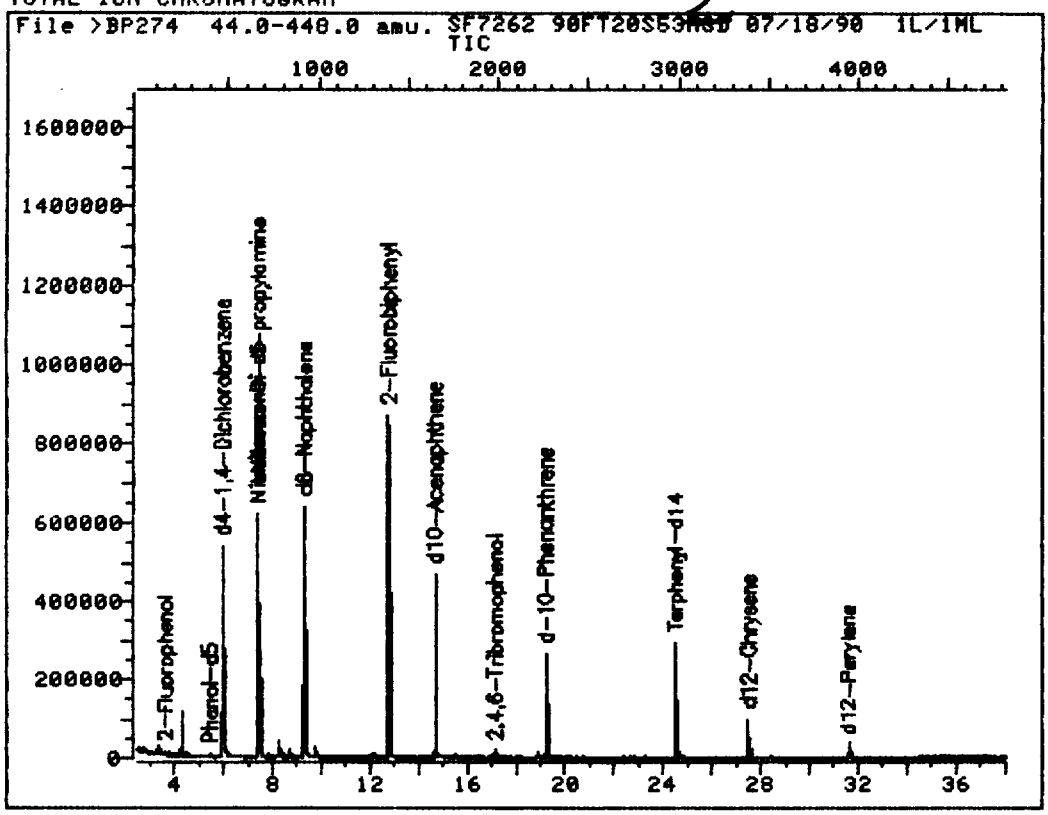
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.93	152.0	207714	50.00	NG/UL	99
2)	2-Fluorophenol	3.60	112.0	4031	.66	NG/UL	99
3)	Phenol-d5	5.42	99.0	2872	.40	NG/UL	83
14)	~~N-Nitroso-Di-n-propylamine~~	7.37	70.0	60850	18.14	NG/UL	62
16)	d8-Naphthalene	9.26	136.0	674002	48.83	NG/UL	89
17)	Nitrobenzene-d5	7.37	82.0	451219	69.36	NG/UL	99
31)	d10-Acenaphthene	14.64	164.0	199127	65.04	NG/UL	95
36)	2-Fluorobiphenyl	12.73	172.0	567674	74.89	NG/UL	93
39)	*d-10-Phenanthrene	19.18	188.0	194687	50.00	NG/UL	99
54)	2,4,6-Tribromophenol	17.12	330.0	3624	3.96	NG/UL	99
62)	d12-Chrysene	27.48	240.0	66343	55.56	NG/UL	96
64)	Terphenyl-d14	24.47	244.0	196210	93.46	NG/UL	96
69)	*d12-Perylene	31.57	264.0	32436	50.00	NG/UL	92

* Compound is ISTD

No Target
No TIC

8/29/90

TOTAL ION CHROMATOGRAM



Data File: >BP274::C8 N.F. Quant Output File: ^BP274::C8
Name: SF7262 90FT20S53
Misc: 07/18/90 1L/1ML BTL#17

Id File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900720 11:16

Operator ID: KELLY
Quant Time: 900823 08:28
Injected at: 900719 04:17

QUANT REPORT

Operator ID: KELLY
Output File: `BP270::C3
Data File: >BP270::C3
Name: SF7262 90FT20S54
Misc: 07/18/90 1L/1ML

Quant Rev: 6
Quant Time: 900720 14:02
Injected at: 900719 00:51
Dilution Factor: 1.00000

BTL#13

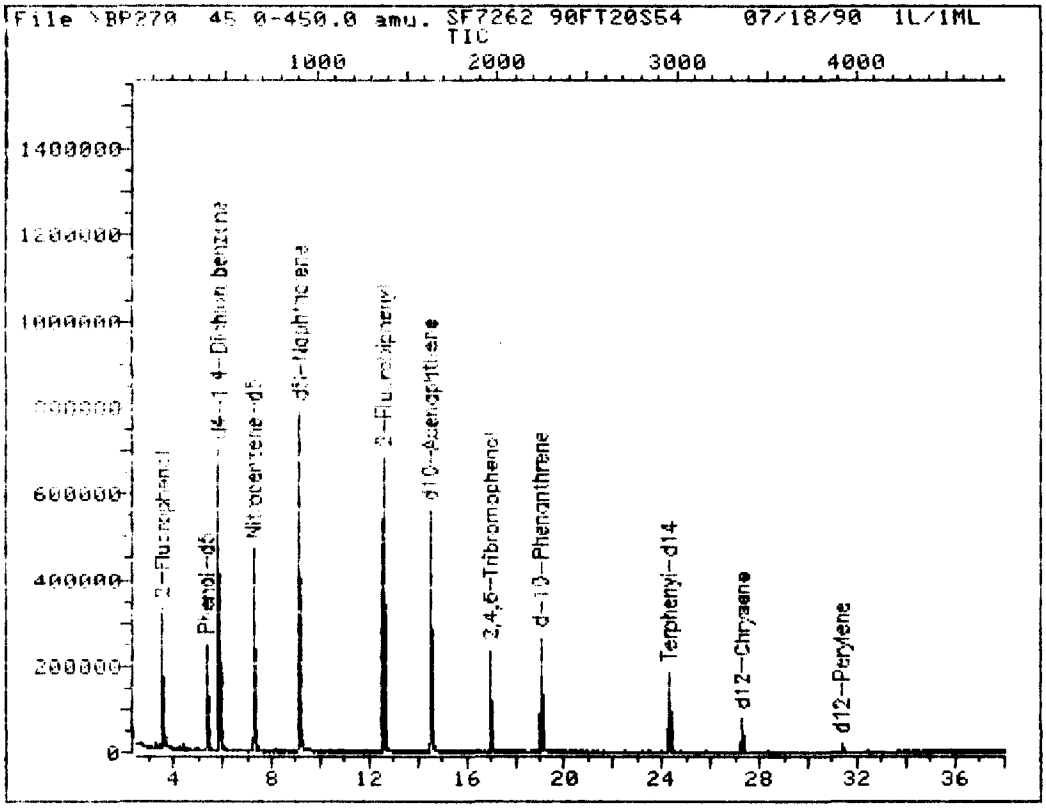
ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900720 11:16

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.82	450	251918	50.00	NG/UL	94
2)	2-Fluorophenol	3.52	139	264342	35.65	NG/UL	87
3)	Phenol-d5	5.30	379	210730	24.01	NG/UL	86
16)	d8-Naphthalene	9.13	898	868129	51.86	NG/UL	89
17)	Nitrobenzene-d5	7.24	642	362017	45.88	NG/UL	98
31)	d10-Acenaphthene	14.47	1622	250230	67.39	NG/UL	88
36)	2-Fluorobiphenyl	12.58	1365	428742	46.64	NG/UL	94
39)	*d-10-Phenanthrene	19.00	2236	189039	50.00	NG/UL	97
54)	2,4,6-Tribromophenol	16.96	1959	44305	49.85	NG/UL	93
62)	d12-Chrysene	27.27	3358	55543	47.91	NG/UL	97
64)	Terphenyl-d14	24.27	2951	115870	56.84	NG/UL	96
69)	*d12-Perylene	31.34	3911	20235	50.00	NG/UL	90

* Compound is ISTD

NO Target
NO TIC

TOTAL ION CHROMATOGRAM



Data File: >BP270::C3 Quant Output File: ^BP270::C3
Name: SF7262 90FT20S54
Misc: 07/18/90 1L/1ML BTL#13

Id File: IDBP1D::C4
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900628 15:27

Operator ID: KELLY
Quant Time: 900719 01:35
Injected at: 900719 00:51

QUANT REPORT

Operator ID: KELLY
Output File: ^BP271::C3
Data File: >BP271::C3
Name: SF7262 90FT20D54
Misc: 07/18/90 1L/1ML

Quant Rev: 6
Quant Time: 900720 14:09
Injected at: 900719 01:42
Dilution Factor: 1.00000

BTL#14

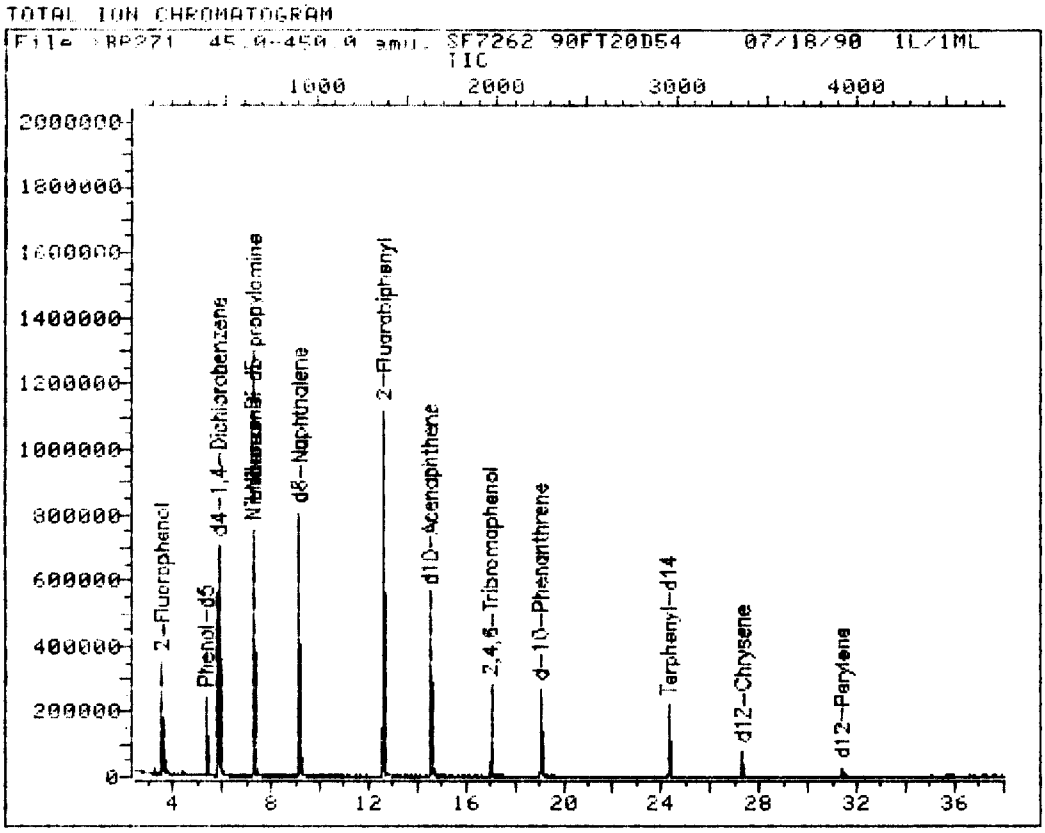
ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900720 11:16

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.83	452	253269	50.00	NG/UL	94
2)	2-Fluorophenol	3.53	140	296267	39.75	NG/UL	87
3)	Phenol-d5	5.31	381	215213	24.39	NG/UL	87
14)	~~N-Nitroso-Di-n-propylamine~~	7.26	645	76505	18.70	NG/UL	61
16)	d8-Naphthalene	9.13	899	869662	51.67	NG/UL	88
17)	Nitrobenzene-d5	7.26	645	565056	71.24	NG/UL	89
31)	d10-Acenaphthene	14.49	1624	251522	67.37	NG/UL	93
36)	2-Fluorobiphenyl	12.60	1368	714661	77.32	NG/UL	94
39)	*d-10-Phenanthrene	19.01	2238	193463	50.00	NG/UL	98
54)	2,4,6-Tribromophenol	16.97	1961	53988	59.36	NG/UL	93
62)	d12-Chrysene	27.28	3360	51511	43.41	NG/UL	96
64)	Terphenyl-d14	24.28	2953	138430	66.35	NG/UL	99
69)	*d12-Perylene	31.37	3915	23341	50.00	NG/UL	95

* Compound is ISTD

No Target
DO TIC

TOTAL ION CHROMATOGRAM



Data File: >BP271::C3 Quant Output File: ^BP271::C3
Name: SF7262 90FT20D54
Misc: 07/18/90 1L/1ML BTL#14

Id File: IDBP1D::C4
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900628 15:27

Operator ID: KELLY
Quant Time: 900719 02:27
Injected at: 900719 01:42

QUANT REPORT

Operator ID: KELLY
Output File: ^BP272::C3
Data File: >BP272::C3
Name: SF7262 90FT20R95
Misc: 07/18/90 1L/1ML

Quant Rev: 6
Quant Time: 900720 14:15
Injected at: 900719 02:34
Dilution Factor: 1.00000

BTL#15

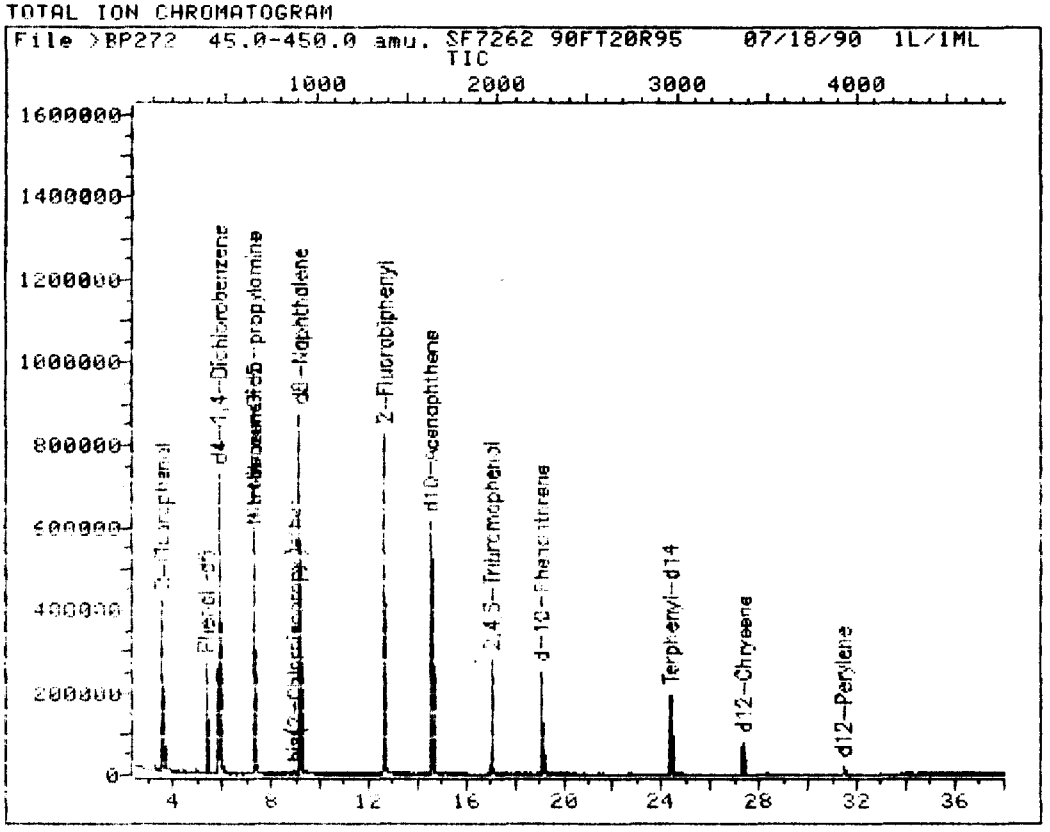
ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900720 11:16

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.85	454	262522	50.00	NG/UL	92
2)	2-Fluorophenol	3.53	141	295747	38.28	NG/UL	89
3)	Phenol-d5	5.31	382	237479	25.97	NG/UL	84
12)	~~bis(2-Chloroisopropyl)ether~~	8.93	871	149	.06	NG/UL	71
14)	~~N-Nitroso-Di-n-propylamine~~	7.27	646	60885	14.36	NG/UL	59
16)	d8-Naphthalene	9.16	902	925721	53.06	NG/UL	88
17)	Nitrobenzene-d5	7.27	647	458699	55.79	NG/UL	90
31)	d10-Acenaphthene	14.51	1628	262882	67.93	NG/UL	85
36)	2-Fluorobiphenyl	12.62	1371	546286	57.02	NG/UL	94
39)	*d-10-Phenanthrene	19.05	2243	181106	50.00	NG/UL	95
54)	2,4,6-Tribromophenol	17.01	1966	50587	59.42	NG/UL	98
62)	d12-Chrysene	27.33	3367	57121	51.43	NG/UL	97
64)	Terphenyl-d14	24.33	2959	134594	68.92	NG/UL	99
69)	*d12-Perylene	31.41	3921	19081	50.00	NG/UL	94

* Compound is ISTD

No Target
1 TIC

TOTAL ION CHROMATOGRAM



Data File: >BP272::C3 Quant Output File: ^BP272::C3
Name: SF7262 90FT20R95
Misc: 07/18/90 1L/1ML BTL#15

Id File: IDBP1D::C4
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900628 15:27

Operator ID: KELLY
Quant Time: 900719 03:19
Injected at: 900719 02:34

QUANT REPORT

Operator ID: KELLY
Output File: ^BP273::C3
Data File: >BP273::C3
Name: SF7262 90FT20S53MS
Misc: 07/18/90 1L/1ML

Quant Rev: 6
Quant Time: 900720 14:21
Injected at: 900719 03:26
Dilution Factor: 1.00000

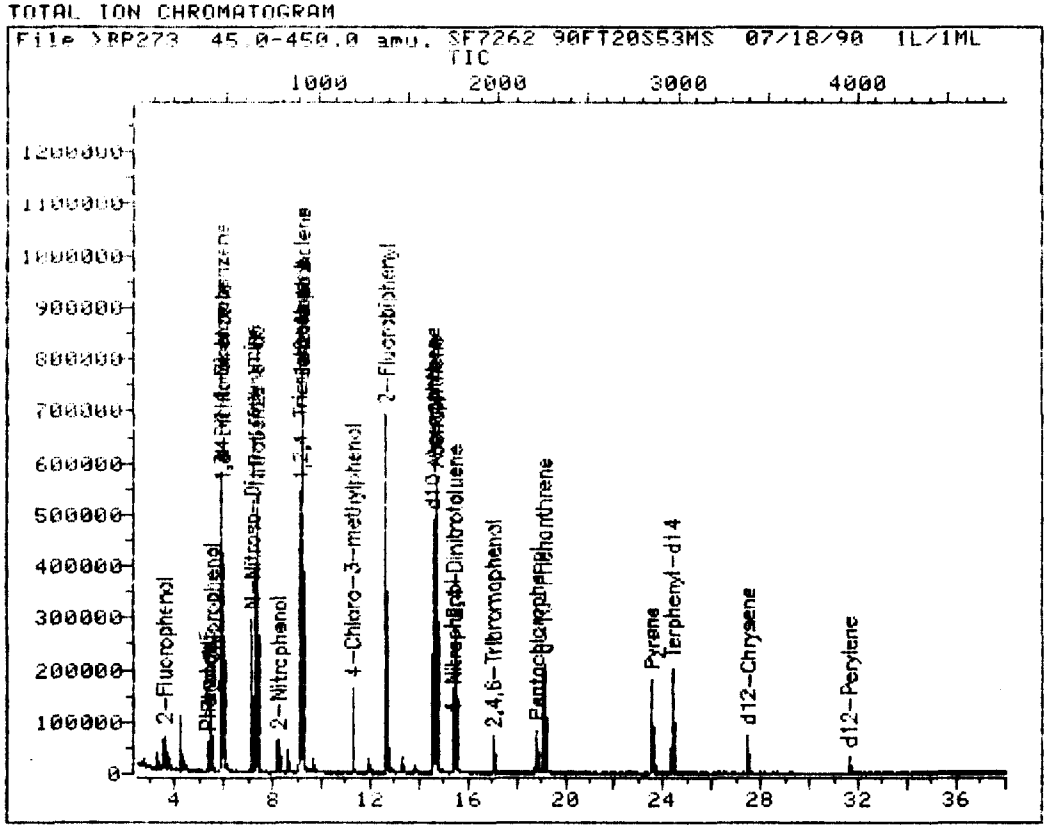
BTL#16

ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900720 11:16

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.87	457	215514	50.00	NG/UL	98
2)	2-Fluorophenol s	3.56	144	54270	8.56 ✓	NG/UL	85
3)	Phenol-d5 s	5.34	385	50190	6.69 ✓	NG/UL	88
4)	Phenol	5.37	389	69697	9.75 ✓	NG/UL	76
6)	2-Chlorophenol	5.48	404	87049	14.32	NG/UL	97
7)	~~1,3-Dichlorobenzene~~	5.91	462	262181	42.49	NG/UL	97
8)	1,4-Dichlorobenzene	5.91	462	262181	36.82	NG/UL	98
14)	N-Nitroso-Di-n-propylamine	7.12	626	298834	85.86	NG/UL	88
16)	d8-Naphthalene	9.18	905	773808	54.03	NG/UL	89
17)	Nitrobenzene-d5	7.30	651	408298	60.49	NG/UL	92
20)	2-Nitrophenol	8.21	774	25648	9.24	NG/UL	95
22)	~~Benzoic Acid~~	~~9.19~~	~~906~~	~~314~~	~~.17~~	NG/UL	79
25)	1,2,4-Trichlorobenzene	9.12	897	230407	56.95	NG/UL	95
29)	4-Chloro-3-methylphenol	11.24	1184	77994	21.67	NG/UL	91
31)	d10-Acenaphthene	14.53	1630	218306	68.72	NG/UL	94
36)	2-Fluorobiphenyl	12.64	1373	443628	56.41	NG/UL	95
39)	*d-10-Phenanthrene	19.08	2245	146387	50.00	NG/UL	96
42)	Acenaphthene	14.63	1643	299131	42.91	NG/UL	97
44)	4-Nitrophenol	15.38	1744	25999	37.88	NG/UL	95
46)	2,4-Dinitrotoluene	15.43	1751	104666	71.77	NG/UL	89
54)	2,4,6-Tribromophenol s	17.02	1966	13150	19.11 ✓	NG/UL	96
57)	Pentachlorophenol	18.80	2208	15482	37.48	NG/UL	93
62)	d12-Chrysene	27.46	3382	56812	63.28	NG/UL	97
63)	Pyrene	23.51	2846	162247	88.75	NG/UL	97
64)	Terphenyl-d14	24.36	2962	135794	86.02	NG/UL	98
69)	*d12-Perylene	31.60	3945	26620	50.00	NG/UL	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >BP273::C3 Quant Output File: ^BP273::C3
Name: SF7262 90FT20S53MS
Misc: 07/18/90 1L/1ML BTL#16

Id File: IDBP1D::C4
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900628 15:27

Operator ID: KELLY
Quant Time: 900719 04:10
Injected at: 900719 03:26

QUANT REPORT

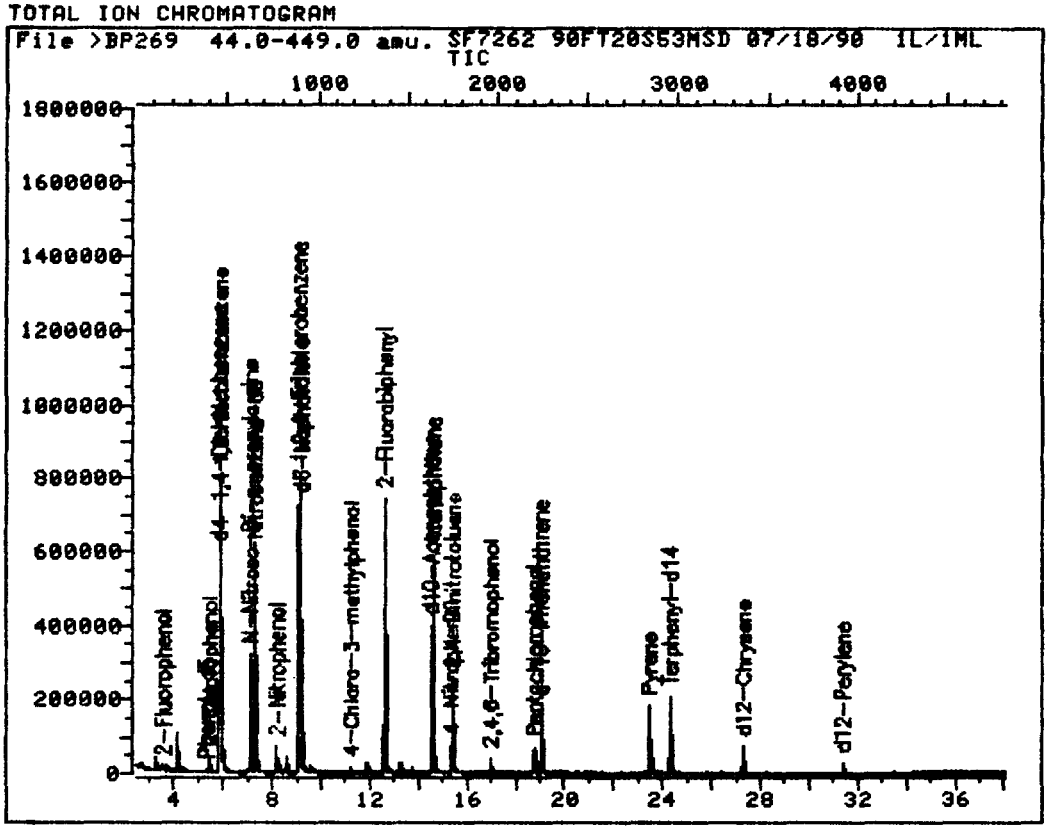
Operator ID: KELLY Quant Rev: 6 Quant Time: 900823 08:38
Output File: ^BP269::C8 Injected at: 900718 23:59
Data File: >BP269::C8 Dilution Factor: 1.00000
Name: SF7262 90FT20S53MSD
Misc: 07/18/90 1L/1ML BTL#12

ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900720 11:16

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.83	152.0	224927	50.00	NG/UL	96
2)	2-Fluorophenol	3.54	112.0	9568	1.45✓	NG/UL	88
3)	Phenol-d5	5.29	99.0	4927	.63✓	NG/UL	80
4)	Phenol	5.33	94.0	5052	.68	NG/UL	67
6)	2-Chlorophenol	5.43	128.0	29618	4.67	NG/UL	94
7)	1,3-Dichlorobenzene	5.86	146.0	438371	68.06	NG/UL	95
8)	1,4-Dichlorobenzene	5.86	146.0	438371	58.99	NG/UL	95
14)	N-Nitroso-Di-n-propylamine	7.08	70.0	314796	86.66	NG/UL	87
16)	d8-Naphthalene	9.14	136.0	735204	49.19	NG/UL	88
17)	Nitrobenzene-d5	7.26	82.0	507189	72.00	NG/UL	95
20)	2-Nitrophenol	8.16	139.0	29562	10.20	NG/UL	92
25)	1,2,4-Trichlorobenzene	9.07	180.0	361551	85.63	NG/UL	97
29)	4-Chloro-3-methylphenol	11.20	107.0	7735	2.06✓	NG/UL	79
31)	d10-Acenaphthene	14.48	164.0	170654	51.47	NG/UL	90
36)	2-Fluorobiphenyl	12.58	172.0	500502	60.97	NG/UL	96
39)	*d-10-Phenanthrene	19.01	188.0	131417	50.00	NG/UL	97
42)	Acenaphthene	14.57	153.0	332387	53.11	NG/UL	97
44)	4-Nitrophenol	15.32	109.0	20711	33.62	NG/UL	96
46)	2,4-Dinitrotoluene	15.37	165.0	98362	75.13	NG/UL	87
54)	2,4,6-Tribromophenol	16.96	330.0	7662	12.40	NG/UL	88
57)	Pentachlorophenol	18.74	265.8	14197	38.29	NG/UL	86
62)	d12-Chrysene	27.27	240.0	50593	62.77	NG/UL	91
63)	Pyrene	23.43	202.0	166537	101.47	NG/UL	97
64)	Terphenyl-d14	24.28	244.0	137924	97.32	NG/UL	93
69)	*d12-Perylene	31.34	264.0	26291	50.00	NG/UL	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >BP269::C8 Quant Output File: ^BP269::C8
Name: SF7262 90FT20S53MSD
Misc: 07/18/90 1L/1ML BTL#12

Id File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900720 11:16

Operator ID: KELLY
Quant Time: 900823 08:38
Injected at: 900718 23:59

QUANT REPORT

Operator ID: KELLY Quant Rev: 6 Quant Time: 900723 07:56
Output File: ^BP274::C3 Injected at: 900719 04:17
Data File: >BP274::C3 Dilution Factor: 1.00000
Name: SF7262 90FT20S53~~MSD~~
Misc: 07/18/90 1L/1ML BTL#17

ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900720 11:16

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.93	465	207714	50.00	NG/UL	99
2)	2-Fluorophenol	3.60	149	4031	.66	NG/UL	99
3)	Phenol-d5	5.42	395	2872	.40	NG/UL	83
14)	~~N-Nitroso-Di-n-propylamine~~	7.37	660	60850	18.14	NG/UL	62
16)	d8-Naphthalene	9.26	916	674002	48.83	NG/UL	89
17)	Nitrobenzene-d5	7.37	660	451219	69.36	NG/UL	99
31)	d10-Acenaphthene	14.64	1644	199127	65.04	NG/UL	95
36)	2-Fluorobiphenyl	12.73	1386	567674	74.89	NG/UL	93
39)	*d-10-Phenanthrene	19.18	2260	194687	50.00	NG/UL	99
54)	2,4,6-Tribromophenol	17.12	1981	3624	3.96	NG/UL	99
62)	d12-Chrysene	27.48	3386	66343	55.56	NG/UL	96
64)	Terphenyl-d14	24.47	2978	196210	93.46	NG/UL	96
69)	*d12-Perylene	31.57	3941	32436	50.00	NG/UL	92

* Compound is ISTD

MS data file header from : >BP272

Sample: SF7262 90FT20R95 Operator: KELLY MS 7/19/90 2:34
Misc : 07/18/90 1L/1ML BTL#15
Sys. #: 1 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: TOXIC1 Tuning file: MT5987 No. of extra records: 2
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

>BP272 SF7262 90FT20R95 07/18/90 1L/1ML
45.0| 450.0 CLP ADC TIC
Upslope: .20 Area Reject: 18193. Max Peaks: 9 Bunching: 1
Dnslope: 0.00 Results File IBP272 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	3.28	101	106	111	15554	83653	38178	75.27	14.348
2	3.46	125	131	135	7516	63267	19356	38.16	7.274
3	4.42	258	261	267	10150	44498	21049	41.50	7.910
4	4.92	323	329	334	12116	50973	24461	48.22	9.193
5	5.92	463	464	468	24591	57636	46171	91.02	17.352
6	8.95	870	874	884	7312	37781	19777	38.99	7.432
7	12.72	1384	1385	1390	9132	26284	19792	39.02	7.438
8	14.61	1639	1641	1646	10092	33909	26583	52.41	9.990
9	16.92	1945	1954	1959	23439	56908	50724	100.00	19.063

Sum of corrected areas: 266091.

Summary of Unknowns PBM Library Search and Quantitation

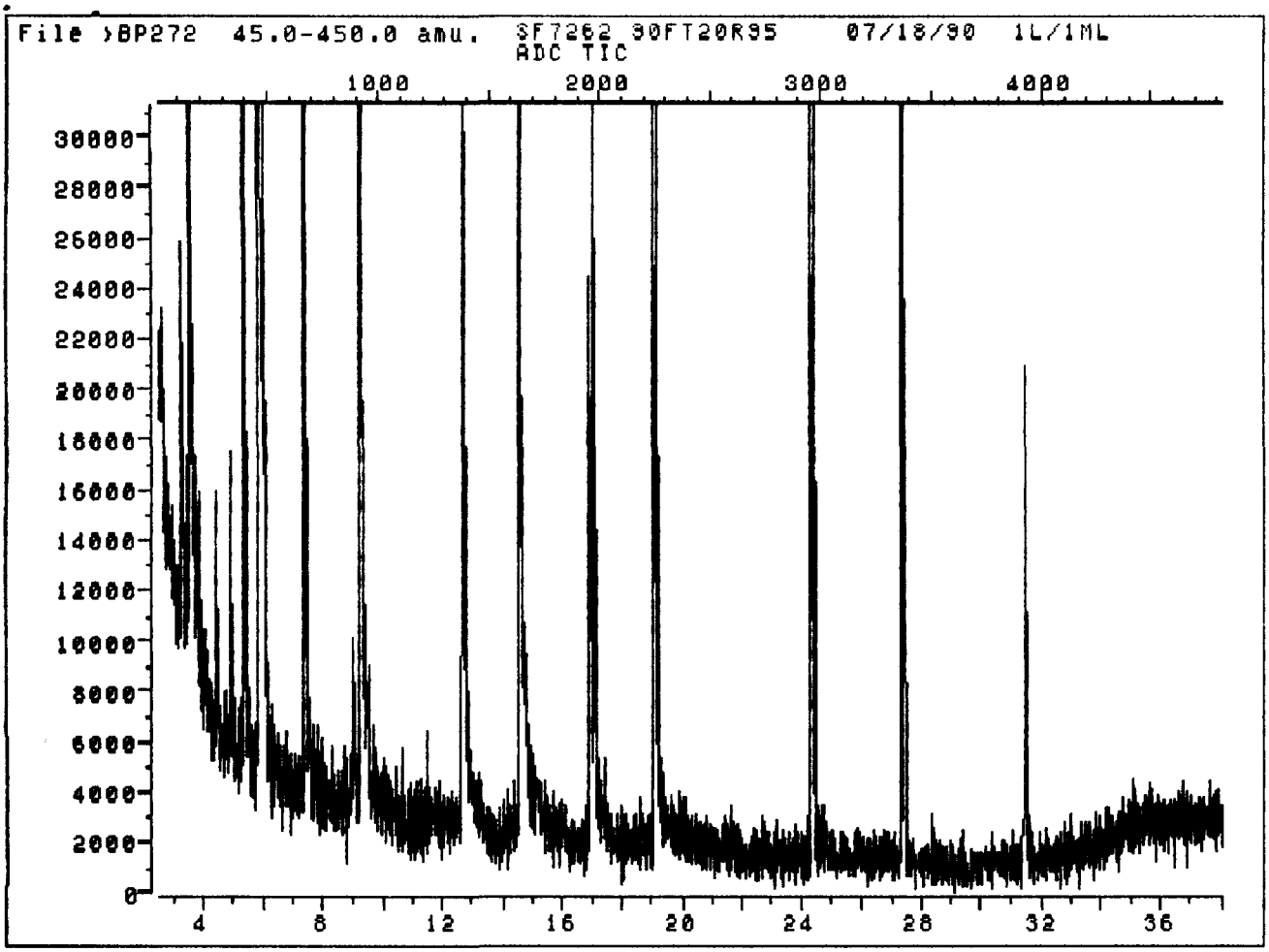
Standard	Concentration	Area	Retention Time	Unknown Window
1	50.0	1584092.	5.85	2.50 - 12.45
2	50.0	555188.	19.05	12.45 - 25.23
3	50.0	181931.	31.41	25.23 - 38.02

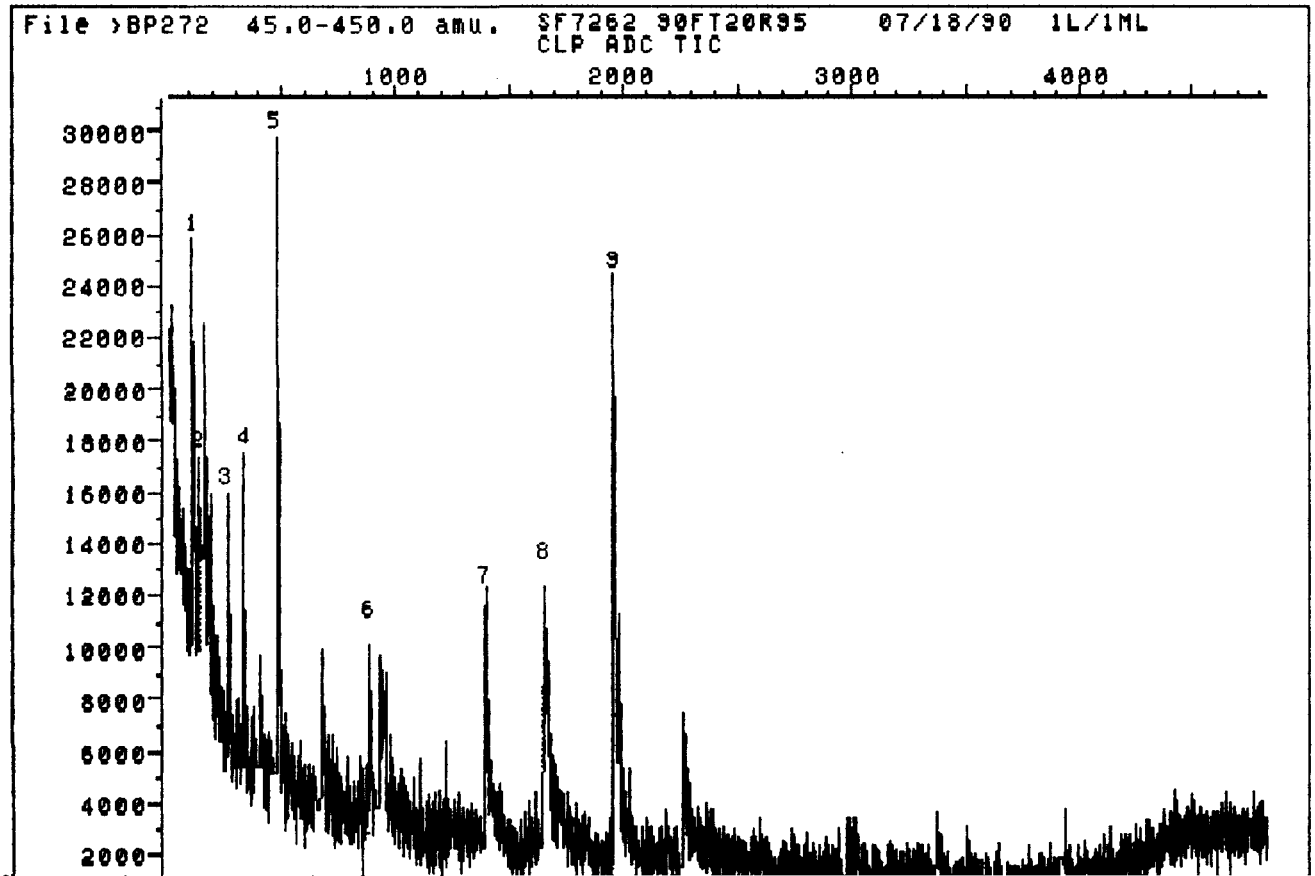
Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 0.00
Amount Method (AM) = 1000.00 Amount Used (AU) = 1000.00

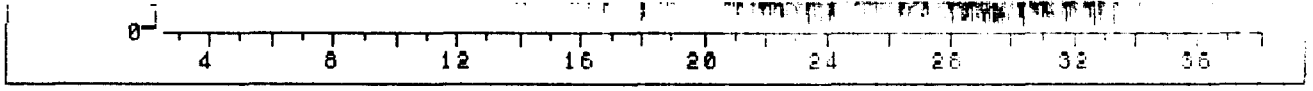
Correction Factor = ******** = (AM / AU) / (DF * FS)

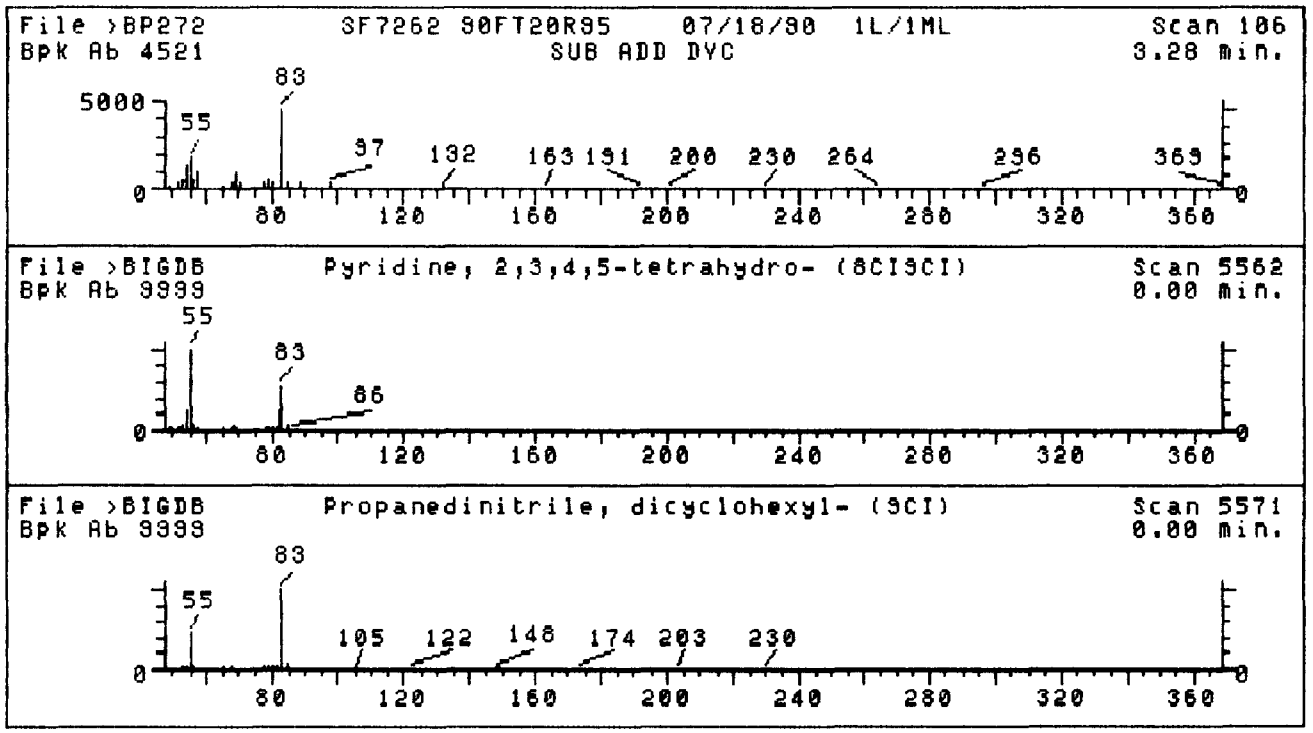
$$\text{Unknown Concentration} = \frac{\text{Conc Int Std}}{\text{Area Int Std}} * \text{Area Unk} * \text{Correction Factor}$$

2:08 PM MON., 27 AUG., 1990


File >BP272 45.0-450.0 amu. SF7262 30FT20R95 07/18/90 1L/1ML
ADC TIC
1000
2000
3000
4000
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
4
8
12
16
20
24
28
32
36


File >BP272 45.0-450.0 amu. SF7262 30FT20R95 07/18/90 1L/1ML
CLP ADC TIC
1000
2000
3000
4000
30000
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
1
2
3
4
5
6
7
8
9



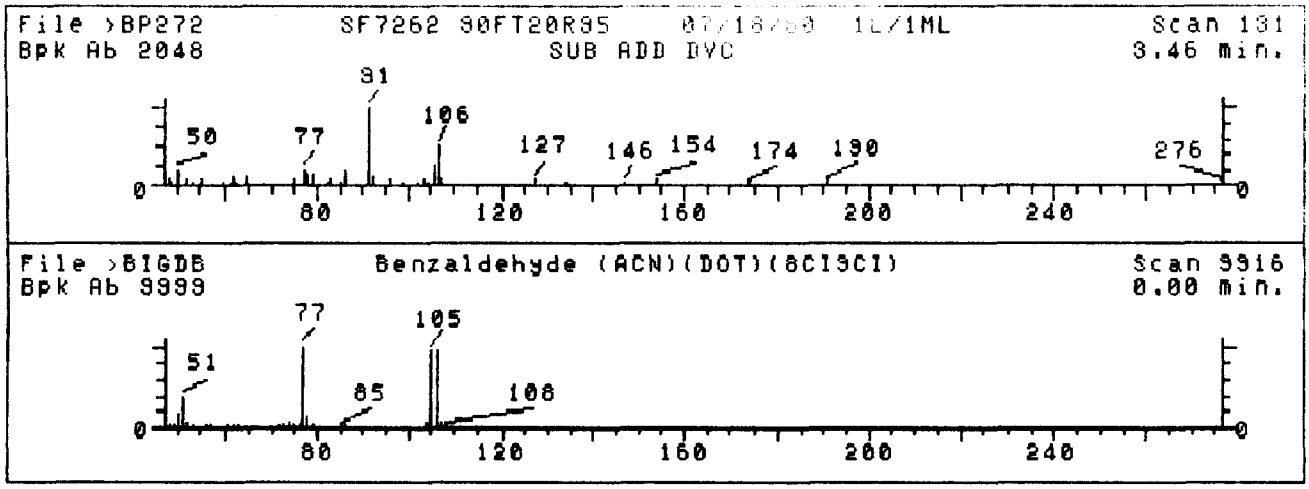


. Unknown #,1
Area = 38178.00 Tentative Concentration is 1.000

1. Pyridine, 2,3,4,5-tetrahydro- (8CI9CI) 83 C5H9N
2. Propanedinitrile, dicyclohexyl- (9CI) 230 C15H22N2

Sample file: >BP272 Spectrum #: 106
Search speed: 1 Tilting option: N No. of ion ranges searched: 53

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52*	505180	5562	"BIGDB	37	56	2	0	130	20	20	17
2.	31*	74764286	5571	"BIGDB	25	64	2	0	88	32	12	14

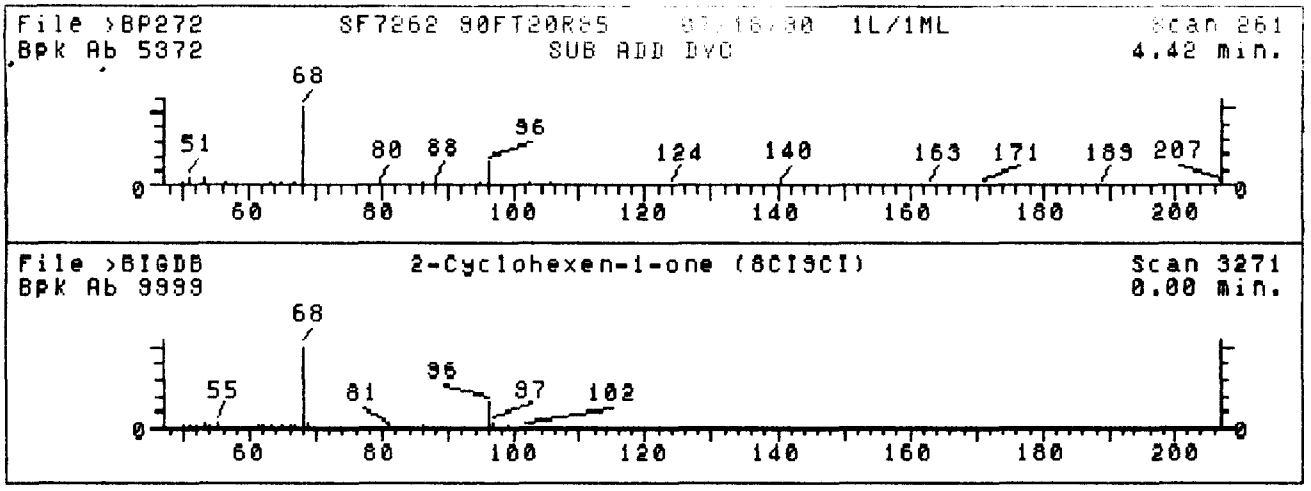


. Unknown #,2
Area = 19356.00 Tentative Concentration is .600

1. Benzaldehyde (ACN)(DOT)(8CI9CI) 106 C7H6O

Sample file: >BP272 Spectrum #: 131
Search speed: 1 Tilting option: N No. of ion ranges searched: 51

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	15*	100527	9916	"BIGDB	32	68	3	0	54	59	3	13

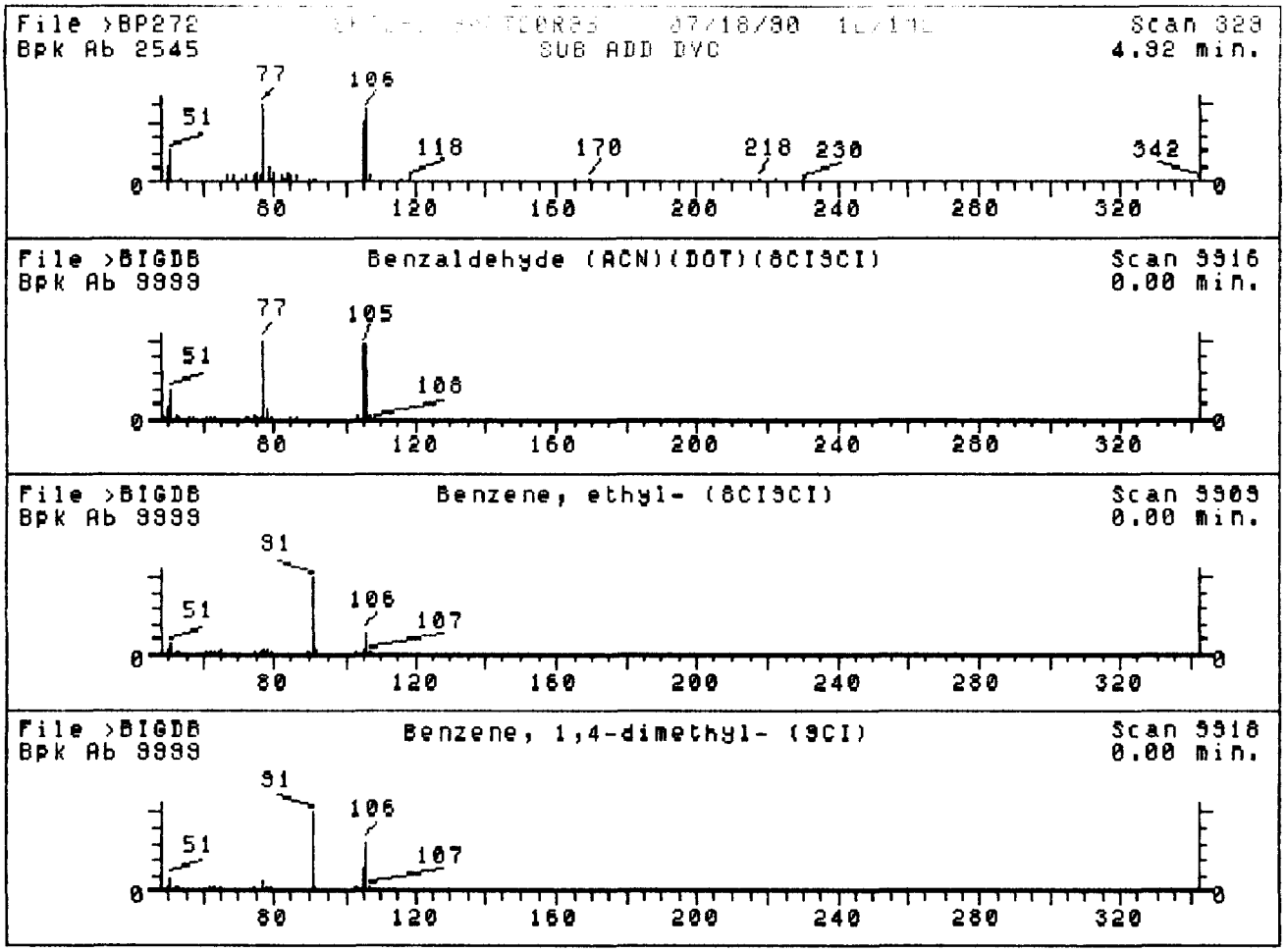


. Unknown #,3
Area = 21049.00 Tentative Concentration is .700

1. 2-Cyclohexen-1-one (8CI9CI) 96 C6H8O

Sample file: >BP272 Spectrum #: 261
Search speed: 1 Tilting option: N No. of ion ranges searched: 51

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52*	930687	3271	"BIGDB	20	65	2	0	100	20	20	13

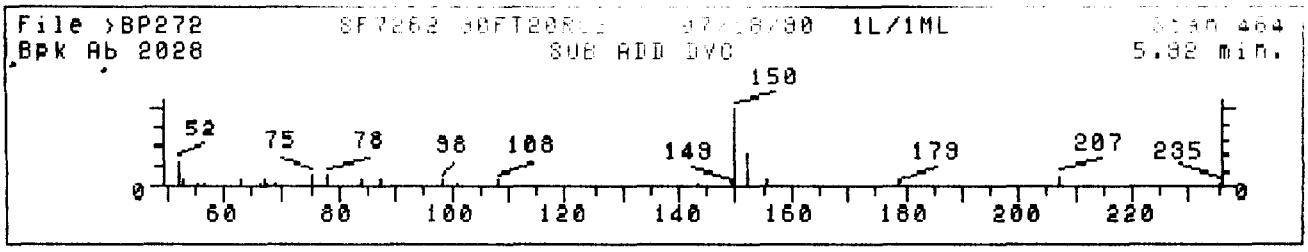


. Unknown #,4
Area = 24461.00 Tentative Concentration is .800

1. Benzaldehyde (ACN)(DOT)(8CI9CI) 106 C7H6O
2. Benzene, ethyl- (8CI9CI) 106 C8H10
3. Benzene, 1,4-dimethyl- (9CI) 106 C8H10

Sample file: >BP272 Spectrum #: 329
Search speed: 1 Tilting option: N No. of ion ranges searched: 52

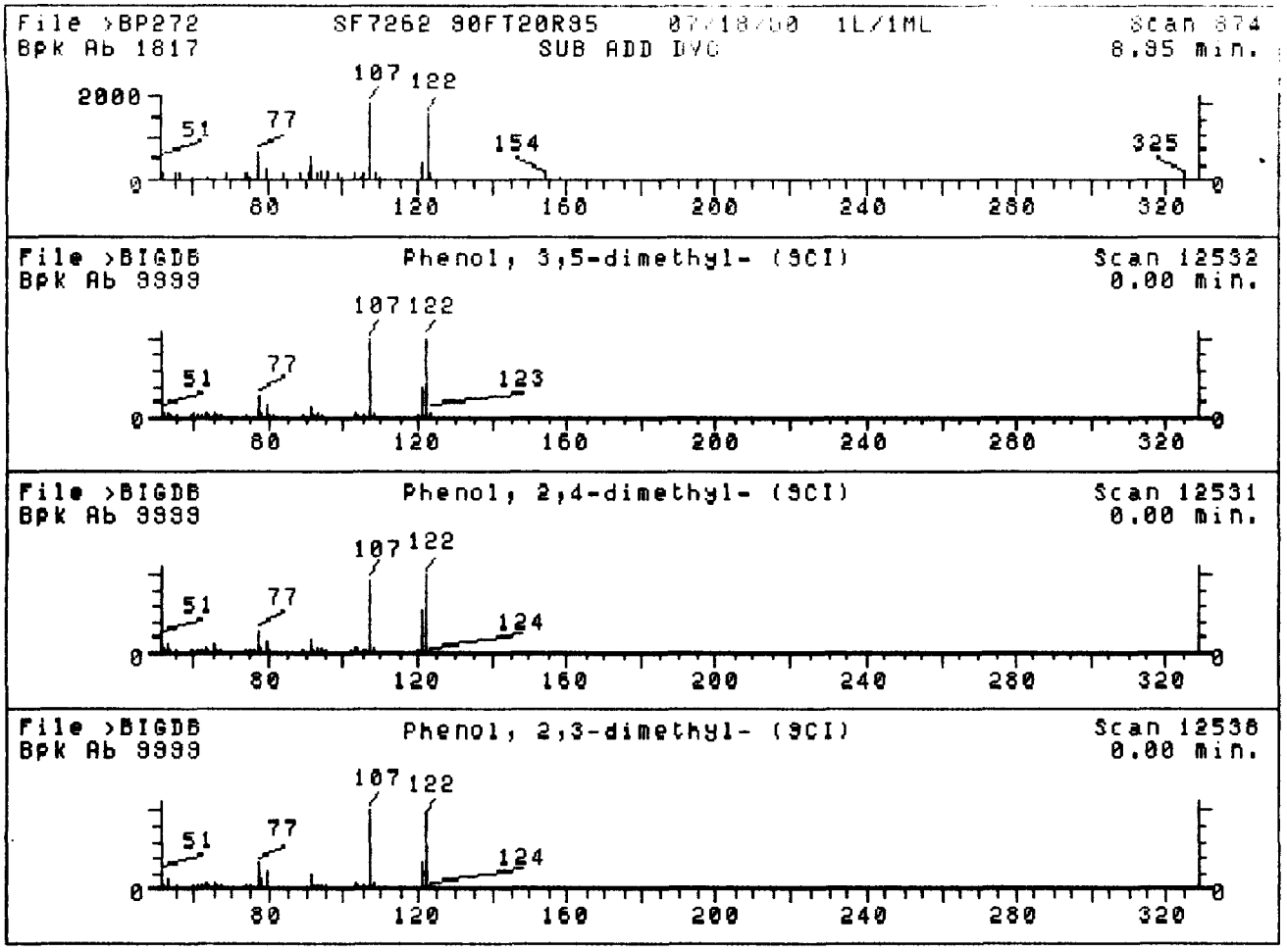
	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52*	100527	9916	"BIGDB	53	47	3	0	84	16	20	17
2.	20*	100414	9909	"BIGDB	24	60	3	0	282	54	5	12
3.	20*	106423	9918	"BIGDB	24	69	3	0	152	54	5	12



. Unknown #,5
Area = 46171.00 Tentative Concentration is 1.000

Sample file: >BP272 Spectrum #: 464

No data base entries were retrieved.

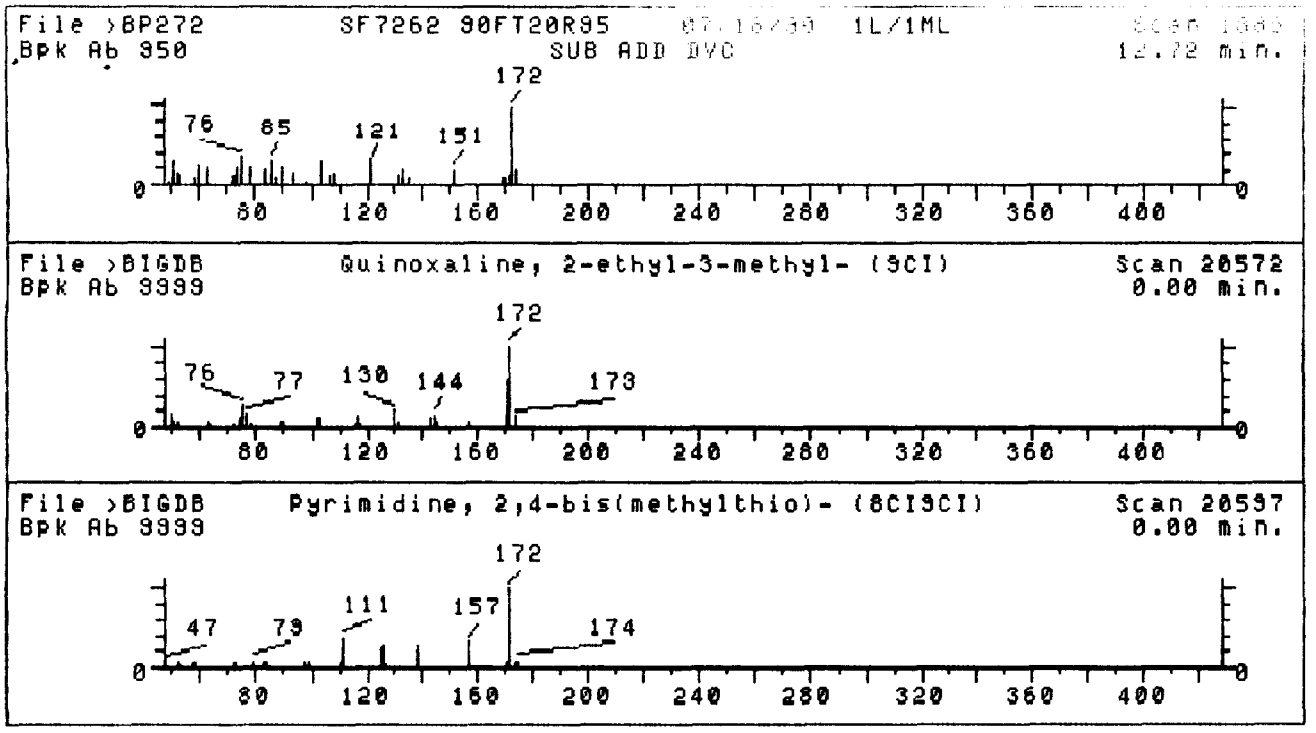


. Unknown #,6
Area = 19777.00 Tentative Concentration is .600

1.	Phenol, 3,5-dimethyl- (9CI)	122	C8H10O
2.	Phenol, 2,4-dimethyl- (9CI)	122	C8H10O
3.	Phenol, 2,3-dimethyl- (9CI)	122	C8H10O
4.	Phenol, 3,4-dimethyl- (9CI)	122	C8H10O
5.	Benzene, 1-methoxy-2-methyl- (9CI)	122	C8H10O
6.	Phenol, 2,6-dimethyl- (9CI)	122	C8H10O
7.	Hydrazine, 1-methyl-1-phenyl- (8CI9CI)	122	C7H10N2

Sample file: >BP272 Spectrum #: 874
Search speed: 1 Tilting option: N No. of ion ranges searched: 55

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	58*	108689	12532	"BIGDB	44	58	1	0	70	19	25	22
2.	52*	105679	12531	"BIGDB	52	55	3	0	85	19	20	15
3.	52*	526750	12538	"BIGDB	39	67	3	0	93	19	20	13
4.	52*	95658	12525	"BIGDB	32	71	2	0	100	19	20	14
5.	30*	578585	12542	"BIGDB	42	71	3	0	85	35	12	13
6.	28*	576261	12541	"BIGDB	29	83	2	0	61	40	10	14
7.	27*	618406	12543	"BIGDB	36	71	3	0	85	38	10	13

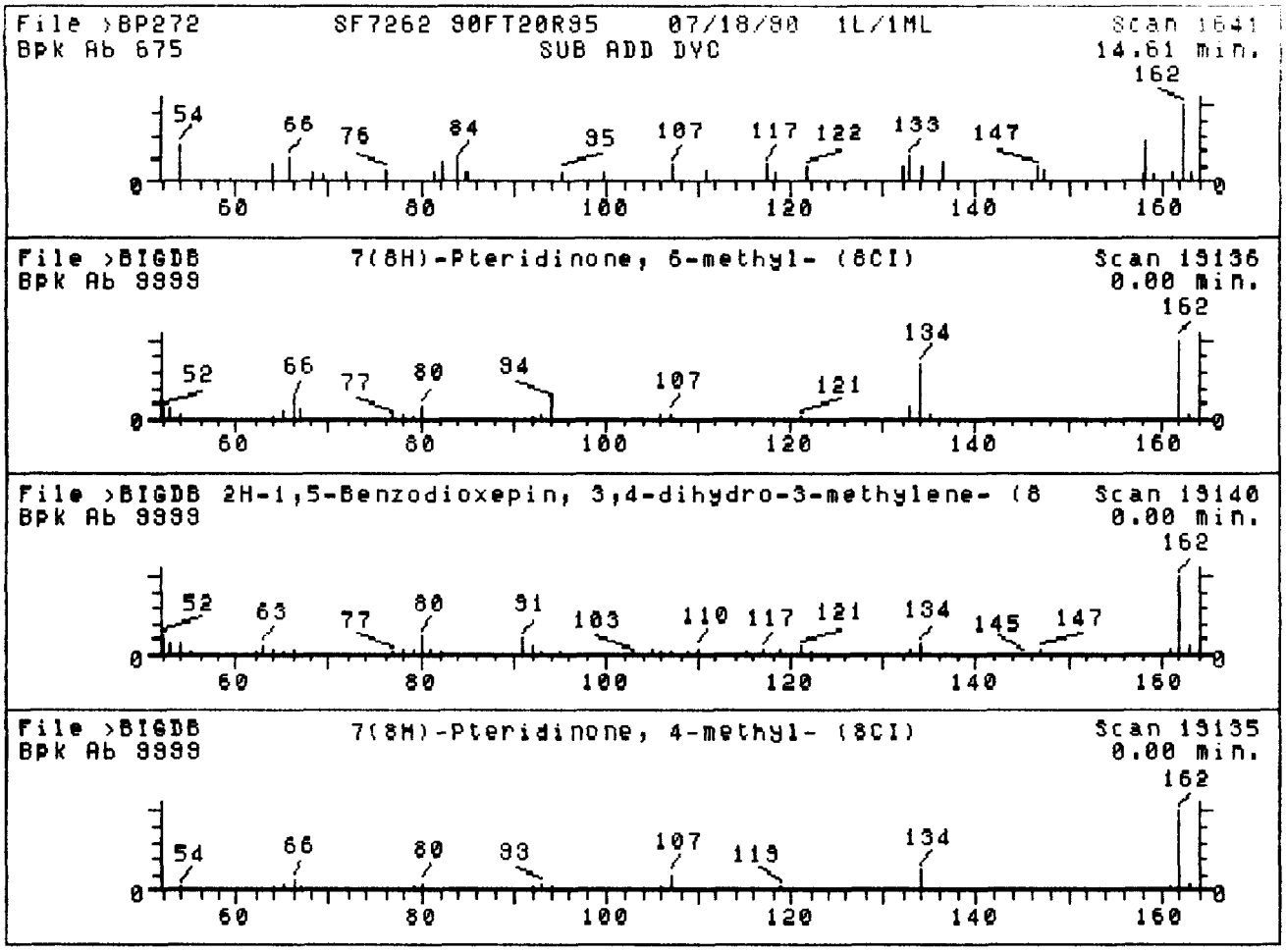


. Unknown #,7
Area = 19792.00 Tentative Concentration is 2.00

1. Quinoxaline, 2-ethyl-3-methyl- (9CI) 172 C11H12N2
2. Pyrimidine, 2,4-bis(methylthio)- (8CI9CI) 172 C6H8N2S2

Sample file: >BP272 Spectrum #: 1385
Search speed: 1 Tilting option: N No. of ion ranges searched: 51

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	37920993	20572	"BIGDB	26	96	3	0	100	46	7	13
2.	11*	5909262	20597	"BIGDB	28	92	3	0	100	61	2	13

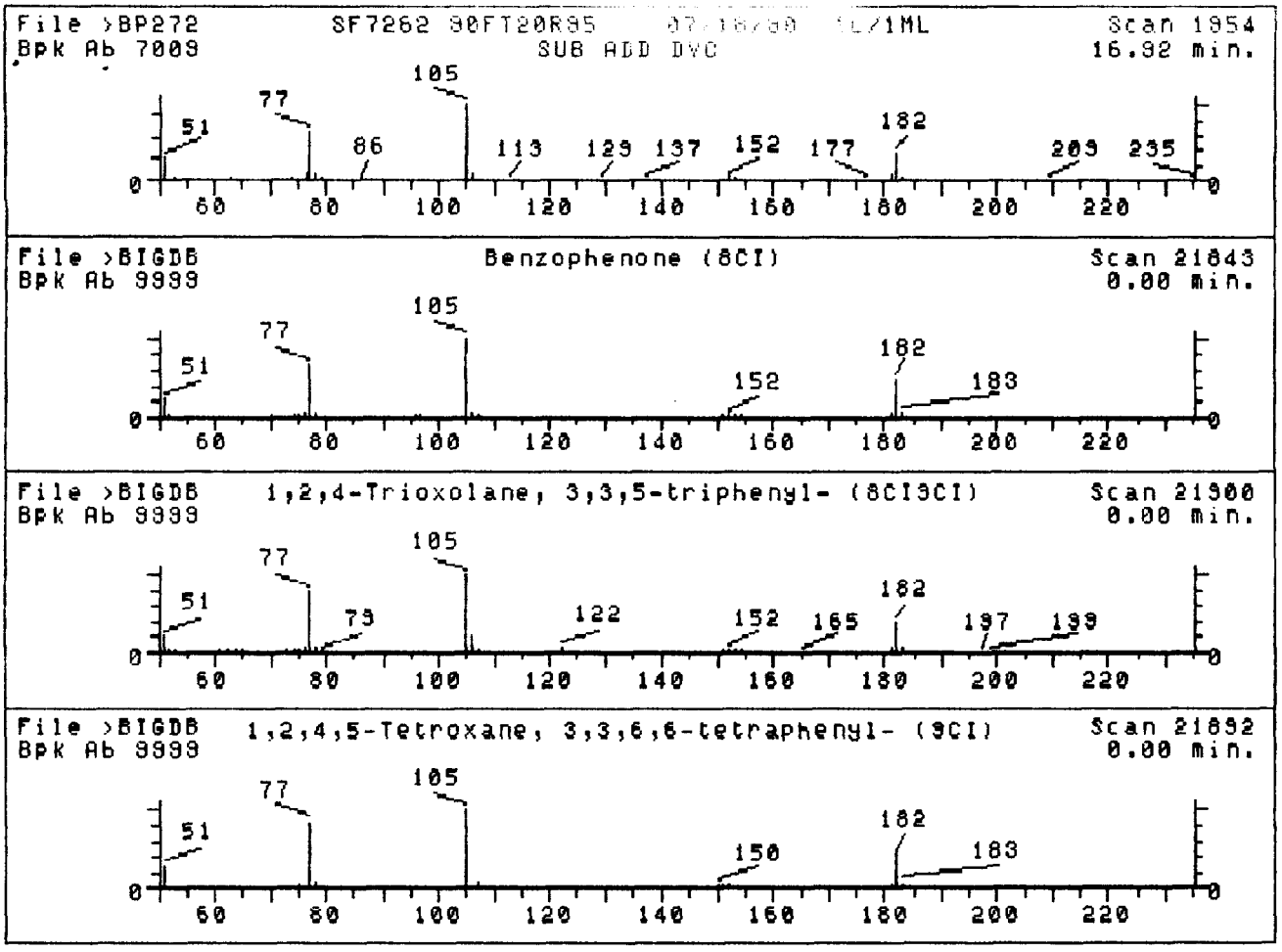


. Unknown #,8
Area = 26583.00 Tentative Concentration is 2.00

1.	7(8H)-Pteridinone, 6-methyl- (8CI)	162	C7H6N4O
2.	2H-1,5-Benzodioxepin, 3,4-dihydro-3-methylene- (8CI)	162	C10H10O2
3.	7(8H)-Pteridinone, 4-methyl- (8CI)	162	C7H6N4O
4.	4(1H)-Pteridinone, 2-methyl- (9CI)	162	C7H6N4O
5.	Benzo[b]thiophene, 7-ethyl- (8CI9CI)	162	C10H10S
6.	3(2H)-Benzofuranone, 4,7-dimethyl- (8CI9CI)	162	C10H10O2
7.	3H-1,2-Dithiole-3-thione, 4,5-dimethyl- (8CI9CI)	162	C5H6S3

Sample file: >BP272 Spectrum #: 1641
Search speed: 1 Tilting option: N No. of ion ranges searched: 56

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	25*	16041308	19136	"BIGDB	27	91	3	0	100	50	7	13
2.	20*	19560646	19140	"BIGDB	40	68	3	0	100	51	5	13
3.	20*	16041295	19135	"BIGDB	25	78	3	0	100	54	5	13
4.	20*	34244785	19160	"BIGDB	22	91	3	0	100	53	5	12
5.	15*	16587421	19137	"BIGDB	26	66	3	0	227	58	3	13
6.	15*	20895458	19147	"BIGDB	32	85	3	0	100	60	3	13
7.	11*	3354390	19182	"BIGDB	30	80	3	0	100	64	2	13



Unknown #,9

Area = 50724.00 Tentative Concentration is 5.00

1.	Benzophenone (8CI)	182 C13H10O
2.	1,2,4-Trioxolane, 3,3,5-triphenyl- (8CI9CI)	304 C20H16O3
3.	1,2,4,5-Tetroxane, 3,3,6,6-tetraphenyl- (9CI)	396 C26H20O4
4.	Azobenzene (ACN)(8CI)	182 C12H10N2

Sample file: >BP272 Spectrum #: 1954

Search speed: 1 Tilting option: N No. of ion ranges searched: 54

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	84*	119619	21843	"BIGDB	64	38	1	0	78	7	55	63
2.	78	23246120	21900	"BIGDB	60	70	2	0	79	2	55	12
3.	70	16204367	21892	"BIGDB	55	29	3	0	74	7	42	16
4.	25*	103333	21841	"BIGDB	34	79	2	0	51	47	7	14

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP-5987

Contractor: SSCRL-USEPACHICAGOIL Calibration Date: 07/20/90 11:16

Contract No: (312) 353-9065

IDBP1F
CBBP1F

Minimum $\overline{RF}$ for SPCC is 0.050 Maximum % RSD for CCC is 35.00%

Laboratory ID: >BP200 >BP199 >BP198

Compound	RF 25.00	RF 50.00	RF 100.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC	
2-Fluorophenol	1.41650	1.59061	1.60750	.603	1.47151	8.043			
Phenol-d5	1.69933	1.59657	1.92951	.911	1.74180	9.788			
Phenol	1.63047	1.48274	1.86450	.916	1.65925	11.604	*		
bis(2-Chloroethyl)Ether	1.56052	1.41755	1.87062	.932	1.61616	14.333			
2-Chlorophenol	1.52713	1.22776	1.67688	.933	1.41059	16.724			
1,3-Dichlorobenzene	1.36198	1.28002	1.65314	.984	1.43171	13.696			
1,4-Dichlorobenzene	1.54850	1.47159	1.93529	1.006	1.65179	15.045	*		
Benzyl Alcohol	.75064	.72894	.94420	1.081	.80793	14.669			
1,2-Dichlorobenzene	1.45075	1.35466	1.88484	1.078	1.56342	18.068			
2-Methylphenol	1.19776	1.03409	1.38691	1.154	1.20625	14.637			
bis(2-Chloroisopropyl)ether	.46478	.41271	.55647	1.469	.47799	15.228			
4-Methylphenol	1.14481	1.04753	1.39803	1.224	1.19679	15.119			
N-Nitroso-Di-n-propylamine	.85700	.74130	.82413	1.218	.80748	7.384		**	
Hexachloroethane	.50548	.47787	.58018	1.208	.52117	10.155			
d8-Naphthalene	3.47958	3.09552	3.39300	1.573	3.32270	6.063			(Conc=50.0,50.0,50.0)
Nitrobenzene-d5	1.61676	1.39840	1.68273	1.247	1.56596	9.503			
Nitrobenzene	.70971	.62148	.78980	1.256	.70699	11.908			
Isophorone	2.23198	1.99484	2.24862	1.374	2.15848	6.577			
2-Nitrophenol	.63758	.56492	.73019	1.405	.64423	12.858	*		
2,4-Dimethylphenol	.81162	.70441	.97473	1.469	.83025	16.395			
Benzoic Acid	.35450	.39937	.55945	1.552	.43777	24.610			
bis(2-Chloroethoxy)Methane	1.57306	1.34717	1.73760	1.513	1.55261	12.625			
2,4-Dichlorophenol	.81425	.78639	1.02213	1.528	.87426	14.734	*		
1,2,4-Trichlorobenzene	.90351	.80256	1.10972	1.562	.93860	16.680			
Naphthalene	5.10088	2.70226	4.00852	1.583	3.27049	20.466			
4-Chloroaniline	.40609	.37250	.43870	1.640	.40576	8.158			
Hexachlorobutadiene	.62653	.53947	.71064	1.701	.62548	13.684	*		
4-Chloro-3-methylphenol	.81458	.76518	.92503	1.930	.83493	9.803	*		
2-Methylnaphthalene	1.50504	1.24640	1.83579	1.943	1.46174	22.246			
d10-Acenaphthene	.74082	.69066	.77958	2.501	.73702	6.049			(Conc=50.0,50.0,50.0)

RF - Response Factor (Subscript is amount in NG/UL)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

IDBP1F
CBBP1F

Case No: Instrument ID: HP-5987

Contractor: SSCRL-USEPACHICAGOIL Calibration Date: 07/20/90 11:16

Contract No: (312) 353-9065

Minimum $\overline{RF}$ for SPCC is 0.050 Maximum % RSD for CCC is 35.00%

Laboratory ID:	>BP260	>BP259	>BP258					
Compound	RF 25.00	RF 50.00	RF 100.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
Hexachlorocyclopentadiene	.35264	.34413	.54060	2.078	.41245	26.926		**
2,4,6-Trichlorophenol	.38258	.34416	.45698	2.124	.39457	14.538	*	
2,4,5-Trichlorophenol	.36491	.34462	.46616	2.139	.39190	16.614		
2-Chloronaphthalene	1.08710	1.04193	1.48666	2.194	1.20523	20.309		
2-Fluorobiphenyl	1.65204	1.54223	2.27976	2.172	1.82468	21.808		
2-Nitroaniline	.40015	.36816	.48820	2.285	.41886	14.851		
Dimethylphthalate	1.05383	.89758	1.16916	2.436	1.04019	13.104		
Acenaphthylene	2.69676	3.52621	4.40370	.734	3.54225	24.098		
3-Nitroaniline	.50433	.57027	.69887	.764	.59116	16.737		
Acenaphthene	1.83766	2.37142	2.93431	.766	2.38113	23.031	*	
2,4-Dinitrophenol	.13360	.17933	.22677	.781	.17990	25.898		**
4-Nitrophenol	.22069	.22323	.25929	.806	.23440	9.210		
Dibenzofuran	1.99527	2.46417	3.04604	.793	2.50183	21.040		
2,4-Dinitrotoluene	.46037	.48456	.54935	.808	.49810	9.236		
2,6-Dinitrotoluene	.48510	.57594	.62970	.747	.56358	12.969		
Diethylphthalate	1.68957	1.77555	1.94912	.862	1.80475	7.326		
4-Chlorophenyl-phenylether	.77844	.92236	1.09623	.859	.93234	17.068		
Fluorene	1.28178	1.53988	1.93022	.849	1.58396	20.611		
4-Nitroaniline	.38045	.36754	.38580	.864	.37793	2.484		
4,6-Dinitro-2-methylphenol	.13964	.14064	.16068	.872	.14699	8.073		
N-Nitrosodiphenylamine	.45080	.46763	.33571	.881	.41805	17.175	*	
2,4,6-Tribromophenol	.21915	.22185	.26418	.892	.23506	10.745		
4-Bromophenyl-phenylether	.34825	.38858	.44849	.938	.39511	12.767		
Hexachlorobenzene	.26403	.27654	.30944	.953	.28334	8.278		
Pentachlorophenol	.13068	.12970	.16286	.986	.14108	13.375	*	
Phenanthrene	1.09693	1.08745	1.27413	1.004	1.15283	9.121		
Anthracene	1.02325	1.06418	1.25423	1.011	1.11389	11.065		
Di-n-Butylphthalate	1.42243	1.24450	1.29284	1.135	1.31992	6.970		
Fluoranthene	.68839	.61882	.63219	1.200	.64646	5.711	*	
d12-Chrysene	.36939	.33109	.21948	1.437	.30665	25.399		(Conc=50.0,50.0,50.0)

RF - Response Factor (Subscript is amount in NG/UL)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

IDBPIF
CBBPIF

Case No: Instrument ID: HP-5987

Contractor: SSCRL-USEPACHICAGOIL Calibration Date: 07/20/90 11:16

Contract No: (312) 353-9065

Minimum $\overline{RF}$ for SPCC is 0.050 Maximum % RSD for CCC is 35.00%

Laboratory ID: >BP260 >BP259 >BP258

Compound	RF 25.00	RF 50.00	RF 100.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
Pyrene	.67174	.58776	.61380	1.234	.62443	6.885		
Terphenyl-d14	.58145	.50441	.53169	1.278	.53918	7.244		
Butylbenzylphthalate	.44459	.41046	.32427	1.377	.39311	15.775		
Benzo(a)Anthracene	.43562	.37380	.28098	1.435	.36347	21.415		
Bis(2-Ethylhexyl)Phthalate	.55928	.47667	.36336	1.487	.46644	21.087		
Chrysene	.39969	.36805	.27952	1.441	.34909	17.845		
Di-n-octylphthalate	4.09774	3.87170	5.80546	.957	4.59163	23.026	*	
Benzo(b)Fluoranthene	1.35911	1.43428	1.62089	.969	1.47143	9.160		
Benzo(k)Fluoranthene	1.54291	1.40914	1.77753	.971	1.57653	11.829		
Benzo(a)Pyrene	1.10311	.97139	1.24508	.995	1.10652	12.370	*	
Indeno(1,2,3-cd)Pyrene	.26449	.28224	.50856	1.082	.35176	38.685		
Dibenzo(a,h)Anthracene	.19428	.22794	.46036	1.085	.29419	49.248		
Benzo(g,h,i)Perylene	.29475	.25066	.44727	1.099	.33089	31.178		

RF - Response Factor (Subscript is amount in NG/UL)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

```
Calib File: CBBP1F::C5
     Title: <IFB Format Calibration File>
     Units:  NG/UL
 Last Edit: 890828 10:29
Last Calib: 900720 11:00

   ID File: IDBP1F:BP:C5
     Title:  CRL SOP 625 NS  HP-5987  KDH  06\28\89
     Units:  NG/UL
 Last Edit: 900624 15:58
Last Calib: 900720 11:05

Correct Files ? Y

Calibrating...

  1) 2-Fluorophenol                    Avg RF:  1.47151
  2) Phenol-d5                         Avg RF:  1.74180
  3) Phenol                            Avg RF:  1.65925
  4) bis(2-Chloroethyl)Ether           Avg RF:  1.61616
  5) 2-Chlorophenol                    Avg RF:  1.41059
  6) 1,3-Dichlorobenzene               Avg RF:  1.43171
  7) 1,4-Dichlorobenzene               Avg RF:  1.65179
  8) Benzyl Alcohol                    Avg RF:   .80793
  9) 1,2-Dichlorobenzene               Avg RF:  1.56342
 10) 2-Methylphenol                    Avg RF:  1.20625
 11) bis(2-Chloroisopropyl)ether       Avg RF:   .47799
 12) 4-Methylphenol                    Avg RF:  1.19679
 13) N-Nitroso-Di-n-propylamine        Avg RF:   .80748
 14) Hexachloroethane                  Avg RF:   .52117
 15) d8-Naphthalene                    Avg RF:  3.32270
 16) Nitrobenzene-d5                   Avg RF:  1.56596
 17) Nitrobenzene                      Avg RF:   .70699
 18) Isophorone                        Avg RF:  2.15848
 19) 2-Nitrophenol                     Avg RF:   .64423
 20) 2,4-Dimethylphenol                Avg RF:   .83025
 21) Benzoic Acid                      Avg RF:   .43797
 22) bis(2-Chloroethoxy)Methane        Avg RF:  1.55241
 23) 2,4-Dichlorophenol                Avg RF:   .87426
 24) 1,2,4-Trichlorobenzene            Avg RF:   .93800
 25) Naphthalene                       Avg RF:  3.27069
 26) 4-Chloroaniline                   Avg RF:   .40576
 27) Hexachlorobutadiene               Avg RF:   .62548
 28) 4-Chloro-3-methylphenol           Avg RF:   .83413
 29) 2-Methylnaphthalene               Avg RF:  1.46174
 30) d10-Acenaphthene                  Avg RF:   .73782
 31) Hexachlorocyclopentadiene         Avg RF:   .41245
 32) 2,4,6-Trichlorophenol             Avg RF:   .39487
 33) 2,4,5-Trichlorophenol             Avg RF:   .39190
 34) 2-Chloronaphthalene               Avg RF:  1.20583
 35) 2-Fluorobiphenyl                  Avg RF:  1.82468
 36) 2-Nitroaniline                    Avg RF:   .41886
 37) Dimethylphthalate                 Avg RF:  1.04079
 38) Acenaphthylene                    Avg RF:  3.54225
 39) 3-Nitroaniline                    Avg RF:   .59116
 40) Acenaphthene                      Avg RF:  2.38113
 41) 2,4-Dinitrophenol                 Avg RF:   .17910
 42) 4-Nitrophenol                     Avg RF:   .23410
 43) Dibenzofuran                      Avg RF:  2.50183
```

44)	[illegible]	[illegible]	[illegible]
45)	2,6-Dinitrotoluene	Avg RF:	[illegible]
46)	Diethylphthalate	Avg RF:	1.80475
47)	4-Chlorophenyl-phenylether	Avg RF:	.93234
48)	Fluorene	Avg RF:	1.58396
49)	4-Nitroaniline	Avg RF:	.37793
50)	4,6-Dinitro-2-methylphenol	Avg RF:	.14699
51)	N-Nitrosodiphenylamine	Avg RF:	.41805
52)	2,4,6-Tribromophenol	Avg RF:	.23506
53)	4-Bromophenyl-phenylether	Avg RF:	.39511
54)	Hexachlorobenzene	Avg RF:	.28334
55)	Pentachlorophenol	Avg RF:	.14108
56)	Phenanthrene	Avg RF:	1.15283
57)	Anthracene	Avg RF:	1.11389
58)	Di-n-Butylphthalate	Avg RF:	1.31992
59)	Fluoranthene	Avg RF:	.64646
60)	d12-Chrysene	Avg RF:	.30665
61)	Pyrene	Avg RF:	.62443
62)	Terphenyl-d14	Avg RF:	.53918
63)	Butylbenzylphthalate	Avg RF:	.39311
64)	Benzo(a)Anthracene	Avg RF:	.36347
65)	Bis(2-Ethylhexyl)Phthalate	Avg RF:	.46644
66)	Chrysene	Avg RF:	.34909
67)	Di-n-octylphthalate	Avg RF:	4.59163
68)	Benzo(b)fluoranthene	Avg RF:	1.47143
69)	Benzo(k)Fluoranthene	Avg RF:	1.57653
70)	Benzo(a)Pyrene	Avg RF:	1.10652
71)	Indeno(1,2,3-cd)Pyrene	Avg RF:	.35176
72)	Dibenzo(a,h)Anthracene	Avg RF:	.29419
73)	Benzo(g,h,i)Perylene	Avg RF:	.33089

CBBPIF
IDBPIF

Calibration Time Stamp Updated: 900720 11:16

:AL,,3 Move cursor; then press carriage return :

FMGR 067

QUANT REPORT

Operator ID: KELLY Quant Rev: 6 Quant Time: 900719 14:37
Output File: ^BP258::C3 Injected at: 900718 14:32
Data File: >BP258::C8 Dilution Factor: 1.00000
Name: TOXSTD100PPM
Misc: 07/18/90 BTL# 1

ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900719 14:29

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.74	434	355622	50.00	NG/UL	99
2)	2-Fluorophenol	3.45	126	1143223	109.23	NG/UL	83
3)	Phenol-d5	5.25	368	1372349	110.78	NG/UL	81
4)	Phenol	5.28	372	1326157	112.37	NG/UL	92
5)	bis(2-Chloroethyl)Ether	5.36	383	1330465	115.74	NG/UL	98
6)	2-Chlorophenol	5.36	383	1192669	118.88	NG/UL	99
7)	1,3-Dichlorobenzene	5.65	422	1175783M	113.81	NG/UL	90
8)	1,4-Dichlorobenzene	5.77	439	1376463	117.23	NG/UL	90
9)	Benzyl Alcohol	6.22	499	671560	116.87	NG/UL	82
10)	1,2-Dichlorobenzene	6.19	495	1340580	120.56	NG/UL	94
11)	2-Methylphenol	6.63	555	986429	114.98	NG/UL	97
12)	bis(2-Chloroisopropyl)ether	8.44	799	395788	116.42	NG/UL	65
13)	4-Methylphenol	7.05	611	994337	116.81	NG/UL	98
14)	N-Nitroso-Di-n-propylamine	7.01	606	586158	102.06	NG/UL	77
15)	Hexachloroethane	6.93	595	412646	111.32	NG/UL	98
16)	d8-Naphthalene	9.03	878	1206627	51.06	NG/UL	86
17)	Nitrobenzene-d5	7.17	627	1196830	107.46	NG/UL	96
18)	Nitrobenzene	7.22	634	561738	111.71	NG/UL	95
19)	Isophorone	7.91	727	1599321	104.18	NG/UL	93
20)	2-Nitrophenol	8.07	749	519341	113.34	NG/UL	86
21)	2,4-Dimethylphenol	8.44	799	693271	117.40	NG/UL	93
22)	Benzoic Acid	9.05	880	397903M	127.16	NG/UL	89
23)	bis(2-Chloroethoxy)Methane	8.70	833	1235857	111.91	NG/UL	98
24)	2,4-Dichlorophenol	8.79	845	726986	116.91	NG/UL	96
25)	1,2,4-Trichlorobenzene	8.97	869	789281	118.23	NG/UL	94
26)	Naphthalene	9.09	886	2850894	122.56	NG/UL	94
27)	4-Chloroaniline	9.41	929	312021	108.12	NG/UL	89
28)	Hexachlorobutadiene	9.75	975	505441	113.62	NG/UL	95
29)	4-Chloro-3-methylphenol	11.08	1154	657924	110.79	NG/UL	93
30)	2-Methylnaphthalene	11.15	1163	1305696	125.59	NG/UL	90
31)	d10-Acenaphthene	14.34	1593	277236	52.89	NG/UL	94
32)	Hexachlorocyclopentadiene	11.92	1267	384496	131.07	NG/UL	98
33)	2,4,6-Trichlorophenol	12.19	1303	325027M	115.82	NG/UL	97
34)	2,4,5-Trichlorophenol	12.28	1315	331552	119.26	NG/UL	97
35)	2-Chloronaphthalene	12.59	1357	1057375	123.35	NG/UL	97
36)	2-Fluorobiphenyl	12.46	1340	1621464	124.94	NG/UL	91
37)	2-Nitroaniline	13.12	1428	347286	116.57	NG/UL	97
38)	Dimethylphthalate	13.98	1545	831560	112.40	NG/UL	93
39)	*d-10-Phenanthrene	18.85	2199	157803	50.00	NG/UL	99
40)	Acenaphthylene	13.83	1525	1389860	124.32	NG/UL	90
41)	3-Nitroaniline	14.42	1604	220569	118.22	NG/UL	93
42)	Acenaphthene	14.44	1607	926086	123.23	NG/UL	93
43)	2,4-Dinitrophenol	14.72	1644	71571	126.05	NG/UL	87
44)	4-Nitrophenol	15.20	1708	81833	110.62	NG/UL	96
45)	Dibenzofuran	14.95	1675	961348	121.75	NG/UL	98

46)	2,4-Dinitrotoluene	[illegible]	[illegible]	[illegible]	[illegible]	NG/UL	80
47)	2,6-Dinitrotoluene	14.09	1559	198738	111.73	NG/UL	91
48)	Diethylphthalate	16.25	1850	615155	108.00	NG/UL	91
49)	4-Chlorophenyl-phenylether	16.20	1843	345976	117.58	NG/UL	99
50)	Fluorene	16.01	1817	609190	121.86	NG/UL	98
51)	4-Nitroaniline	16.30	1857	121761	102.08	NG/UL	81
52)	4,6-Dinitro-2-methylphenol	16.45	1877	50710	109.31	NG/UL	92
53)	N-Nitrosodiphenylamine	16.61	1898	105952	80.30	NG/UL	99
54)	2,4,6-Tribromophenol	16.81	1925	83377	112.39	NG/UL	95
55)	4-Bromophenyl-phenylether	17.67	2041	141547	113.51	NG/UL	85
56)	Hexachlorobenzene	17.96	2080	97662	109.21	NG/UL	92
57)	Pentachlorophenol	18.59	2164	51400	115.44	NG/UL	99
58)	Phenanthrene	18.91	2208	402122	110.52	NG/UL	96
59)	Anthracene	19.05	2226	395843M	111.12	NG/UL	96
60)	Di-n-Butylphthalate	21.39	2542	408027	97.95	NG/UL	97
61)	Fluoranthene	22.61	2706	199522	97.79	NG/UL	91
62)	d12-Chrysene >BP258	27.08	3309	34634	35.79	NG/UL	98
63)	Pyrene	23.25	2792	193718	98.30	NG/UL	98
64)	Terphenyl-d14	24.09	2906	167804	98.89	NG/UL	99
65)	Butylbenzylphthalate	25.96	3158	102340	82.49	NG/UL	67
66)	Benzo(a)Anthracene	27.04	3303	88680	77.31	NG/UL	95
67)	Bis(2-Ethylhexyl)Phthalate	28.02	3436	114680	77.90	NG/UL	93
68)	Chrysene	27.16	3319	88217M	79.54	NG/UL	91
69)	*d12-Perylene	31.15	3857	10923	50.00	NG/UL	94
70)	Di-n-octylphthalate	29.82	3678	126826	126.44	NG/UL	88
71)	Benzo(b)fluoranthene	30.17	3725	35410M	115.60	NG/UL	89
72)	Benzo(k)Fluoranthene	30.23	3734	38832	111.26	NG/UL	89
73)	Benzo(a)Pyrene	30.98	3835	27200	112.52	NG/UL	96
74)	Indeno(1,2,3-cd)Pyrene	33.70	4201	11110	144.57	NG/UL	75
75)	Dibenzo(a,h)Anthracene	33.80	4214	10057	156.48	NG/UL	71
76)	Benzo(g,h,i)Perylene	34.23	4272	9771	135.17	NG/UL	84

* Compound is ISTD

QUANT REPORT

Operator ID: KELLY Quant Rev: 6 Quant Time: 900719 14:45
Output File: ^BP259::C3 Injected at: 900718 15:24
Data File: >BP259::C8 Dilution Factor: 1.00000
Name: TOXSTD 50PPM
Misc: 07/18/90 BTL# 2

ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900719 14:29

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.74	438	311176	50.00	NG/UL	96
2)	2-Fluorophenol	3.46	130	432726	47.25	NG/UL	90
3)	Phenol-d5	5.22	368	496813	45.83	NG/UL	80
4)	Phenol	5.25	371	461392	44.68	NG/UL	87
5)	bis(2-Chloroethyl)Ether	5.34	384	441106	43.86	NG/UL	95
6)	2-Chlorophenol	5.36	386	382048	43.52	NG/UL	98
7)	1,3-Dichlorobenzene	5.65	425	398310M	44.06	NG/UL	94
8)	1,4-Dichlorobenzene	5.77	442	457925	44.57	NG/UL	94
9)	Benzyl Alcohol	6.20	500	226830	45.11	NG/UL	78
10)	1,2-Dichlorobenzene	6.19	498	421538	43.32	NG/UL	94
11)	2-Methylphenol	6.62	556	321783	42.86	NG/UL	97
12)	bis(2-Chloroisopropyl)ether	8.42	800	128424	43.17	NG/UL	65
13)	4-Methylphenol	7.02	610	325965	43.76	NG/UL	96
14)	N-Nitroso-Di-n-propylamine	6.98	605	230675	45.90	NG/UL	84
15)	Hexachloroethane	6.94	599	148702	45.85	NG/UL	97
16)	d8-Naphthalene	9.03	881	963252	46.58	NG/UL	88
17)	Nitrobenzene-d5	7.16	629	435150	44.65	NG/UL	99
18)	Nitrobenzene	7.20	635	193389	43.95	NG/UL	95
19)	Isophorone	7.88	726	620747	46.21	NG/UL	94
20)	2-Nitrophenol	8.06	751	175788	43.84	NG/UL	90
21)	2,4-Dimethylphenol	8.42	800	219194	42.42	NG/UL	95
22)	Benzoic Acid	8.88	861	124274M	45.39	NG/UL	89
23)	bis(2-Chloroethoxy)Methane	8.68	834	419208	43.38	NG/UL	99
24)	2,4-Dichlorophenol	8.76	845	244707	44.97	NG/UL	95
25)	1,2,4-Trichlorobenzene	8.96	872	249737	42.75	NG/UL	97
26)	Naphthalene	9.08	888	840879	41.31	NG/UL	98
27)	4-Chloroaniline	9.41	933	115912	45.90	NG/UL	86
28)	Hexachlorobutadiene	9.76	980	167870	43.12	NG/UL	91
29)	4-Chloro-3-methylphenol	11.08	1158	238107	45.82	NG/UL	93
30)	2-Methylnaphthalene	11.15	1168	387849	42.63	NG/UL	90
31)	d10-Acenaphthene	14.35	1600	214916	46.85	NG/UL	91
32)	Hexachlorocyclopentadiene	11.93	1273	107085	41.72	NG/UL	98
33)	2,4,6-Trichlorophenol	12.19	1308	107093M	43.61	NG/UL	98
34)	2,4,5-Trichlorophenol	12.28	1320	107236M	44.08	NG/UL	85
35)	2-Chloronaphthalene	12.59	1362	324225	43.23	NG/UL	96
36)	2-Fluorobiphenyl	12.46	1345	479905	42.26	NG/UL	94
37)	2-Nitroaniline	13.12	1433	114563	43.95	NG/UL	99
38)	Dimethylphthalate	13.98	1550	279305	43.14	NG/UL	88
39)	*d-10-Phenanthrene	18.87	2209	118736	50.00	NG/UL	95
40)	Acenaphthylene	13.84	1531	418688	49.77	NG/UL	89
41)	3-Nitroaniline	14.41	1608	67712	48.23	NG/UL	99
42)	Acenaphthene	14.45	1613	281573	49.80	NG/UL	96
43)	2,4-Dinitrophenol	14.72	1650	21293	49.84	NG/UL	87
44)	4-Nitrophenol	15.20	1714	26506	47.62	NG/UL	97
45)	Dibenzofuran	14.95	1681	292586	49.25	NG/UL	98
46)	2,4-Dinitrotoluene	15.24	1719	57535	48.80	NG/UL	81

48)	Diethylphthalate	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
49)	4-Chlorophenyl-phenylether	16.21	1851	109817	49.45	NG/UL	94
50)	Fluorene	16.02	1825	182839	48.61	NG/UL	98
51)	4-Nitroaniline	16.30	1862	43640	48.63	NG/UL	86
52)	4,6-Dinitro-2-methylphenol	16.45	1883	16699	47.84	NG/UL	80
53)	N-Nitrosodiphenylamine	16.62	1906	55524	55.93	NG/UL	98
54)	2,4,6-Tribromophenol	16.82	1933	26341	47.19	NG/UL	94
55)	4-Bromophenyl-phenylether	17.69	2050	46138	49.17	NG/UL	97
56)	Hexachlorobenzene	17.98	2089	32835	48.80	NG/UL	96
57)	Pentachlorophenol	18.59	2172	15400	45.97	NG/UL	86
58)	Phenanthrene	18.93	2218	129119	47.16	NG/UL	93
59)	Anthracene	19.07	2236	126356M	47.14	NG/UL	93
60)	Di-n-Butylphthalate	21.41	2553	147767	47.14	NG/UL	94
61)	Fluoranthene	22.64	2719	73476	47.86	NG/UL	94
62)	d12-Chrysene > BP259	27.11	3325	39312	53.98	NG/UL	97
63)	Pyrene	23.27	2805	69788	47.06	NG/UL	94
64)	Terphenyl-d14	24.12	2919	59892	46.91	NG/UL	94
65)	Butylbenzylphthalate	25.98	3172	48736	52.21	NG/UL	70
66)	Benzo(a)Anthracene	27.07	3319	44384	51.42	NG/UL	94
67)	Bis(2-Ethylhexyl)Phthalate	28.05	3452	56598	51.10	NG/UL	91
68)	Chrysene	27.19	3335	43701M	52.37	NG/UL	94
69)	*d12-Perylene	31.17	3875	17825	50.00	NG/UL	94
70)	Di-n-octylphthalate	29.84	3695	69013	42.16	NG/UL	88
71)	Benzo(b)fluoranthene	30.20	3743	25566	51.15	NG/UL	95
72)	Benzo(k)Fluoranthene	30.27	3752	25118M	44.10	NG/UL	95
73)	Benzo(a)Pyrene	31.02	3854	17315	43.89	NG/UL	92
74)	Indeno(1,2,3-cd)Pyrene	33.74	4223	5031	40.12	NG/UL	87
75)	Dibenzo(a,h)Anthracene	33.82	4234	4063	38.74	NG/UL	72
76)	Benzo(g,h,i)Perylene	34.26	4293	4468	37.88	NG/UL	85

* Compound is ISTD

QUANT REPORT

Operator ID: KELLY Quant Rev: 6 Quant Time: 900719 14:52
Output File: ^BP260::C3 Injected at: 900718 16:16
Data File: >BP260::C8 Dilution Factor: 1.00000
Name: TOXSTD 25PPM
Misc: 07/18/90 BTL# 3

ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900719 14:29

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.74	436	296618	50.00	NG/UL	98
2)	2-Fluorophenol	3.47	129	210089	24.07	NG/UL	91
3)	Phenol-d5	5.21	365	252026	24.39	NG/UL	80
4)	Phenol	5.24	369	241813	24.57	NG/UL	88
5)	bis(2-Chloroethyl)Ether	5.34	382	231409	24.14	NG/UL	99
6)	2-Chlorophenol	5.35	384	196825	23.52	NG/UL	91
7)	1,3-Dichlorobenzene	5.64	423	201994	23.44	NG/UL	95
8)	1,4-Dichlorobenzene	5.77	441	229656M	23.45	NG/UL	95
9)	Benzyl Alcohol	6.20	498	111326	23.23	NG/UL	84
10)	1,2-Dichlorobenzene	6.19	497	215159	23.20	NG/UL	96
11)	2-Methylphenol	6.61	554	177639	24.82	NG/UL	94
12)	bis(2-Chloroisopropyl)ether	8.42	798	68931	24.31	NG/UL	68
13)	4-Methylphenol	7.00	607	169785	23.91	NG/UL	98
14)	N-Nitroso-Di-n-propylamine	6.97	602	127101	26.53	NG/UL	81
15)	Hexachloroethane	6.94	598	74967	24.25	NG/UL	99
16)	d8-Naphthalene	9.03	880	1032107	52.36	NG/UL	86
17)	Nitrobenzene-d5	7.14	626	239780	25.81	NG/UL	94
18)	Nitrobenzene	7.19	632	105256	25.10	NG/UL	92
19)	Isophorone	7.87	724	331022	25.85	NG/UL	95
20)	2-Nitrophenol	8.06	749	94559	24.74	NG/UL	93
21)	2,4-Dimethylphenol	8.42	798	120370	24.44	NG/UL	96
22)	Benzoic Acid	8.80	849	52575M	20.14	NG/UL	96
23)	bis(2-Chloroethoxy)Methane	8.67	832	233299	25.33	NG/UL	99
24)	2,4-Dichlorophenol	8.75	843	120761	23.28	NG/UL	97
25)	1,2,4-Trichlorobenzene	8.96	871	133999	24.07	NG/UL	93
26)	Naphthalene	9.08	887	459889	23.70	NG/UL	98
27)	4-Chloroaniline	9.41	932	60227	25.02	NG/UL	86
28)	Hexachlorobutadiene	9.76	979	92891	25.03	NG/UL	92
29)	4-Chloro-3-methylphenol	11.08	1157	120809	24.39	NG/UL	97
30)	2-Methylnaphthalene	11.14	1166	193252	22.29	NG/UL	94
31)	d10-Acenaphthene	14.35	1600	219741	50.26	NG/UL	93
32)	Hexachlorocyclopentadiene	11.93	1272	52299	21.37	NG/UL	95
33)	2,4,6-Trichlorophenol	12.19	1307	56740	24.24	NG/UL	95
34)	2,4,5-Trichlorophenol	12.27	1319	54120M	23.34	NG/UL	95
35)	2-Chloronaphthalene	12.59	1361	161227	22.55	NG/UL	91
36)	2-Fluorobiphenyl	12.46	1344	245013	22.63	NG/UL	96
37)	2-Nitroaniline	13.10	1431	59346	23.88	NG/UL	98
38)	Dimethylphthalate	13.98	1549	156292	25.33	NG/UL	87
39)	*d-10-Phenanthrene	18.86	2209	154253	50.00	NG/UL	99
40)	Acenaphthylene	13.84	1531	207992	19.03	NG/UL	91
41)	3-Nitroaniline	14.41	1607	38897	21.33	NG/UL	93
42)	Acenaphthene	14.44	1612	141732	19.29	NG/UL	96
43)	2,4-Dinitrophenol	14.72	1649	10304	18.57	NG/UL	89
44)	4-Nitrophenol	15.19	1713	17021	23.54	NG/UL	93
45)	Dibenzofuran	14.95	1681	153888	19.94	NG/UL	91
46)	2,4-Dinitrotoluene	15.24	1719	35507	23.18	NG/UL	93

47)	2,6-Dinitrotoluene	[illegible]	1963	37414	21.91	NG/UL	94
48)	Diethylphthalate	15.24	1855	130311	23.40	NG/UL	90
49)	4-Chlorophenyl-phenylether	16.21	1851	60038	20.87	NG/UL	99
50)	Fluorene	16.01	1824	98859	20.23	NG/UL	98
51)	4-Nitroaniline	16.30	1862	29343	25.17	NG/UL	77
52)	4,6-Dinitro-2-methylphenol	16.45	1883	10770	23.75	NG/UL	88
53)	N-Nitrosodiphenylamine	16.62	1906	34769	26.96	NG/UL	92
54)	2,4,6-Tribromophenol	16.83	1934	16902	23.31	NG/UL	97
55)	4-Bromophenyl-phenylether	17.69	2050	26859	22.04	NG/UL	81
56)	Hexachlorobenzene	17.98	2090	20364	23.30	NG/UL	93
57)	Pentachlorophenol	18.60	2173	10079	23.16	NG/UL	98
58)	Phenanthrene	18.93	2218	84602	23.79	NG/UL	89
59)	Anthracene	19.07	2237	78920M	22.66	NG/UL	89
60)	Di-n-Butylphthalate	21.41	2554	109707	26.94	NG/UL	98
61)	Fluoranthene	22.63	2719	53093	26.62	NG/UL	92
62)	d12-Chrysene >BP760	27.12	3327	56979	60.23	NG/UL	95
63)	Pyrene	23.27	2806	51809	26.89	NG/UL	98
64)	Terphenyl-d14	24.11	2920	44845	27.03	NG/UL	99
65)	Butylbenzylphthalate	25.99	3174	34290	28.27	NG/UL	62
66)	Benzo(a)Anthracene	27.07	3321	33598	29.96	NG/UL	95
67)	Bis(2-Ethylhexyl)Phthalate	28.06	3454	43135	29.98	NG/UL	93
68)	Chrysene	27.18	3336	30827M	28.44	NG/UL	95
69)	*d12-Perylene	31.18	3878	24984	50.00	NG/UL	96
70)	Di-n-octylphthalate	29.85	3698	51189	22.31	NG/UL	93
71)	Benzo(b)fluoranthene	30.21	3746	16978M	24.23	NG/UL	91
72)	Benzo(k)Fluoranthene	30.28	3755	19274	24.14	NG/UL	92
73)	Benzo(a)Pyrene	31.03	3857	13780	24.92	NG/UL	85
74)	Indeno(1,2,3-cd)Pyrene	33.76	4227	3304M	18.80	NG/UL	
75)	Dibenzo(a,h)Anthracene	33.84	4238	2427M	16.51	NG/UL	
76)	Benzo(g,h,i)Perylene	34.27	4297	3682M	22.27	NG/UL	

* Compound is ISTD

QUANT REPORT

Operator ID: KELLY Quant Rev: 6 Quant Time: 900719 10:11
Output File: ^BP275::C3 Injected at: 900719 09:26
Data File: >BP275::SK Dilution Factor: 1.00000
Name: TOXSTD10PPM
Misc: 07/18/90 SF7261 7262 BTL#18

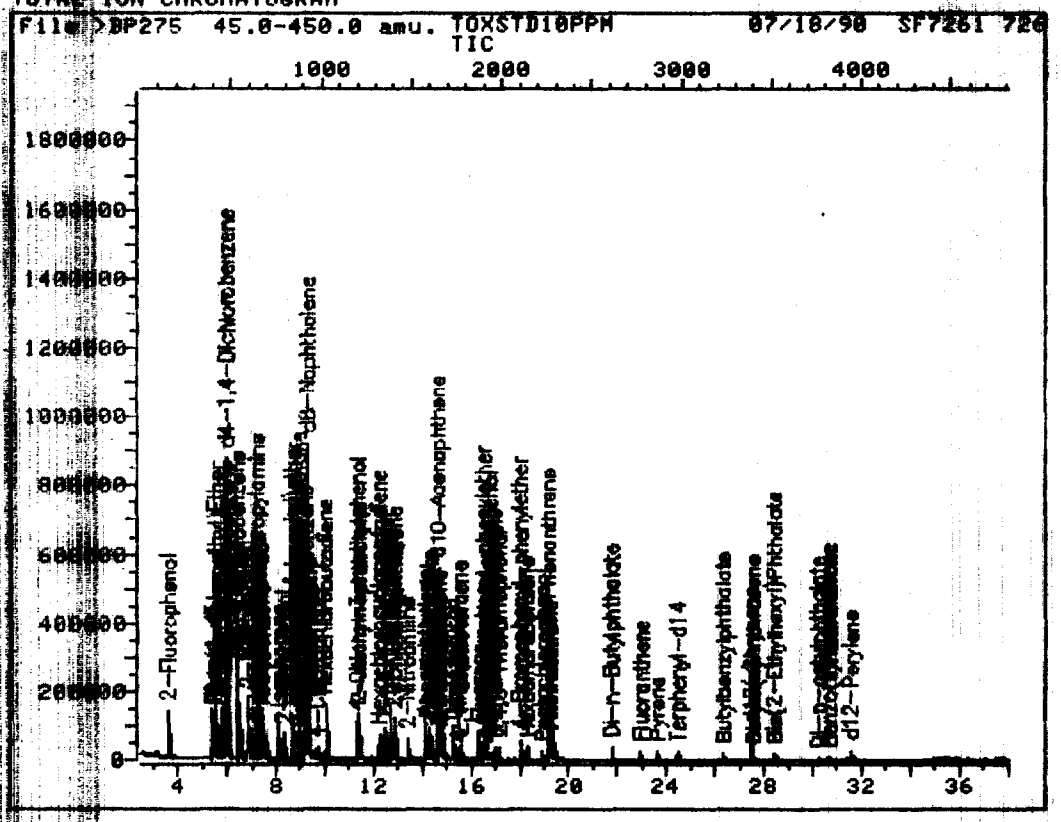
ID File: IDBP1D::C4
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900628 15:27

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.93	152.0	282694	50.00	NG/UL	97
2)	2-Fluorophenol	3.59	112.0	77718	7.62	NG/UL	90
3)	Phenol-d5	5.40	99.0	91788	7.00	NG/UL	93
4)	Phenol	5.43	94.0	89839	6.74	NG/UL	75
5)	bis(2-Chloroethyl)Ether	5.51	93.0	89176	6.69	NG/UL	99
6)	2-Chlorophenol	5.54	128.0	72655	8.50	NG/UL	98
7)	1,3-Dichlorobenzene	5.96	146.0	83418	9.82	NG/UL	95
8)	1,4-Dichlorobenzene	5.96	146.0	83418	9.03	NG/UL	95
9)	Benzyl Alcohol	6.39	108.0	42708	7.09	NG/UL	84
10)	1,2-Dichlorobenzene	6.39	146.0	81749	9.29	NG/UL	96
11)	2-Methylphenol	6.82	108.0	60942	6.88	NG/UL	85
12)	bis(2-Chloroisopropyl)ether	8.65	121.0	26750	7.52	NG/UL	72
13)	4-Methylphenol	7.22	108.0	62137	6.82	NG/UL	90
14)	N-Nitroso-Di-n-propylamine	7.17	70.0	50968	5.55	NG/UL	82
15)	Hexachloroethane	7.15	201.0	27985	9.78	NG/UL	92
16)	d8-Naphthalene	9.26	136.0	965343	40.19	NG/UL	88
17)	Nitrobenzene-d5	7.36	82.0	94237	7.08	NG/UL	93
18)	Nitrobenzene	7.40	123.0	39904	8.66	NG/UL	93
19)	Isophorone	8.09	82.0	132747	5.85	NG/UL	94
20)	2-Nitrophenol	8.28	139.0	34425	8.43	NG/UL	94
21)	2,4-Dimethylphenol	8.65	122.0	44811	7.17	NG/UL	93
22)	Benzoic Acid	8.97	105.0	10802	3.95	NG/UL	78
23)	bis(2-Chloroethoxy)Methane	8.90	93.0	90938	6.11	NG/UL	94
24)	2,4-Dichlorophenol	8.98	162.0	46537	8.25	NG/UL	92
25)	1,2,4-Trichlorobenzene	9.19	180.0	50761	8.14	NG/UL	91
26)	Naphthalene	9.31	128.0	171104	6.98	NG/UL	98
27)	4-Chloroaniline	9.66	127.0	19612	6.38	NG/UL	91
28)	Hexachlorobutadiene	10.00	225.0	33759	9.32	NG/UL	88
29)	4-Chloro-3-methylphenol	11.32	107.0	48548	7.00	NG/UL	97
30)	2-Methylnaphthalene	11.39	142.0	73720	5.69	NG/UL	94
31)	d10-Acenaphthene	14.62	164.0	250523	30.72	NG/UL	93
32)	Hexachlorocyclopentadiene	12.18	237.0	20673	5.22	NG/UL	96
33)	2,4,6-Trichlorophenol	12.44	196.0	22078	6.39	NG/UL	93
34)	2,4,5-Trichlorophenol	12.44	196.0	22078	6.09	NG/UL	93
35)	2-Chloronaphthalene	12.84	162.0	68710	6.16	NG/UL	94
36)	2-Fluorobiphenyl	12.71	172.0	99382	6.79	NG/UL	96
37)	2-Nitroaniline	13.37	138.0	23499	6.10	NG/UL	99
38)	Dimethylphthalate	14.24	163.0	74490	6.80	NG/UL	89
39)	*d-10-Phenanthrene	19.16	188.0	187879	50.00	NG/UL	99
40)	Acenaphthylene	14.10	152.0	97069	16.28	NG/UL	93
41)	3-Nitroaniline	14.67	138.0	15657	16.91	NG/UL	91
42)	Acenaphthene	14.71	153.0	67440	17.90	NG/UL	92
44)	4-Nitrophenol	15.46	109.0	6767	20.54	NG/UL	91

	Compound	R.T.	Q ion	Area	Conc	Units	q
45)	Dibenzofuran	15.22	168.0	71428	14.88	NG/UL	94
46)	2,4-Dinitrotoluene	15.51	165.0	14378	13.52	NG/UL	99
47)	2,6-Dinitrotoluene	14.34	165.0	16240	18.41	NG/UL	99
48)	Diethylphthalate	16.53	149.0	59403	16.71	NG/UL	85
49)	4-Chlorophenyl-phenylether	16.49	204.0	24634	15.05	NG/UL	95
50)	Fluorene	16.29	166.0	47773	13.31	NG/UL	96
51)	4-Nitroaniline	16.57	138.0	10230	13.63	NG/UL	97
52)	4,6-Dinitro-2-methylphenol	16.74	198.0	3643	7.64	NG/UL	91
53)	N-Nitrosodiphenylamine	16.91	169.0	18230	18.66	NG/UL	84
54)	2,4,6-Tribromophenol	17.11	330.0	6831	9.21	NG/UL	96
55)	4-Bromophenyl-phenylether	17.98	248.0	11869	11.70	NG/UL	93
56)	Hexachlorobenzene	18.27	284.0	9479	7.86	NG/UL	93
57)	Pentachlorophenol	18.89	265.8	3886	5.91	NG/UL	95
58)	Phenanthrene	19.22	178.0	40666	9.56	NG/UL	89
59)	Anthracene	19.22	178.0	40666	9.69	NG/UL	89
60)	Di-n-Butylphthalate	21.72	149.0	46418	9.16	NG/UL	99
61)	Fluoranthene	22.95	202.0	23219	6.10	NG/UL	90
62)	d12-Chrysene >BP275	27.45	240.0	54749	21.78	NG/UL	98
63)	Pyrene	23.60	202.0	23144	6.17	NG/UL	93
64)	Terphenyl-d14	24.44	244.0	17884	4.87	NG/UL	87
65)	Butylbenzylphthalate	26.32	149.0	10522	5.82	NG/UL	71
66)	Benzo(a)Anthracene	27.53	228.0	13126	4.42	NG/UL	83
67)	Bis(2-Ethylhexyl)Phthalate	28.40	149.0	13254	5.30	NG/UL	79
68)	Chrysene	27.53	228.0	13126	4.75	NG/UL	88
69)	*d12-Perylene	31.54	264.0	25064	50.00	NG/UL	95
70)	Di-n-octylphthalate	30.20	149.0	10752	9.98	NG/UL	89
71)	Benzo(b)fluoranthene	30.64	252.0	7265	11.91	NG/UL	93
72)	Benzo(k)Fluoranthene	30.64	252.0	7265	12.28	NG/UL	93

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >BP275::SK Quant Output File: ^BP275::C3
Name: TOXSTD10PPM
Misc: 07/18/90 SF7261 7262 BTL#18

Id File: IDBP1D::C4
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900628 15:27

Operator ID: KELLY
Quant Time: 900719 10:11
Injected at: 900719 09:26

QUANT REPORT

Operator ID: KELLY Quant Rev: 6 Quant Time: 900719 11:03
Output File: ^BP276::C3 Injected at: 900719 10:18
Data File: >BP276::3K Dilution Factor: 1.00000
Name: TOXSTD 5PPM
Misc: 07/18/90 SF7261 7262 BTL#19

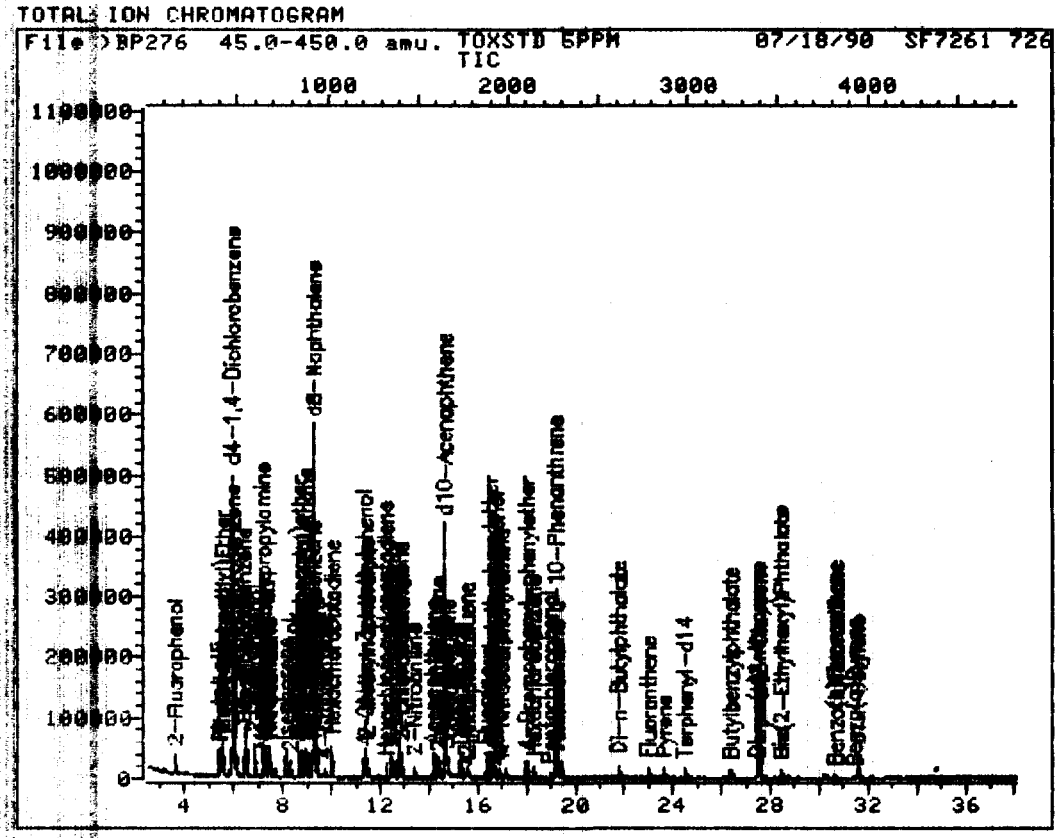
ID File: IDBP1D::C4
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900628 15:27

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.92	152.0	180068	50.00	NG/UL	97
2)	2-Fluorophenol	3.59	112.0	25981	4.00	NG/UL	79
3)	Phenol-d5	5.39	99.0	32033	3.83	NG/UL	91
4)	Phenol	5.42	94.0	32308	3.81	NG/UL	84
5)	bis(2-Chloroethyl)Ether	5.51	93.0	28715	3.38	NG/UL	99
6)	2-Chlorophenol	5.53	128.0	23812	4.37	NG/UL	84
7)	1,3-Dichlorobenzene	5.95	146.0	28616	5.29	NG/UL	95
8)	1,4-Dichlorobenzene	5.95	146.0	28691	4.87	NG/UL	95
9)	Benzyl Alcohol	6.40	108.0	14668	3.82	NG/UL	81
10)	1,2-Dichlorobenzene	6.38	146.0	27289	4.87	NG/UL	94
11)	2-Methylphenol	6.83	108.0	21884	3.88	NG/UL	96
12)	bis(2-Chloroisopropyl)ether	8.66	121.0	9893	4.37	NG/UL	67
13)	4-Methylphenol	7.22	108.0	20778	3.58	NG/UL	91
14)	N-Nitroso-Di-n-propylamine	7.17	70.0	17861	3.05	NG/UL	66
15)	Hexachloroethane	7.14	201.0	10193	5.59	NG/UL	91
16)	d8-Naphthalene	9.26	136.0	630361	41.20	NG/UL	88
17)	Nitrobenzene-d5	7.36	82.0	29075	3.43	NG/UL	94
18)	Nitrobenzene	7.40	123.0	12656	4.31	NG/UL	96
19)	Isophorone	8.09	82.0	47777	3.31	NG/UL	95
20)	2-Nitrophenol	8.29	139.0	9694	3.73	NG/UL	78
21)	2,4-Dimethylphenol	8.66	122.0	17221	4.32	NG/UL	97
22)	Benzoic Acid	8.89	105.0	1238	.71	NG/UL	81
23)	bis(2-Chloroethoxy)Methane	8.90	93.0	30663	3.23	NG/UL	94
24)	2,4-Dichlorophenol	8.99	162.0	15436	4.30	NG/UL	97
25)	1,2,4-Trichlorobenzene	9.20	180.0	17496	4.40	NG/UL	94
26)	Naphthalene	9.31	128.0	59110	3.79	NG/UL	97
27)	4-Chloroaniline	9.67	127.0	7821	3.99	NG/UL	89
28)	Hexachlorobutadiene	10.01	225.0	12896	5.59	NG/UL	88
29)	4-Chloro-3-methylphenol	11.34	107.0	17208	3.90	NG/UL	86
30)	2-Methylnaphthalene	11.40	142.0	29284	3.55	NG/UL	88
31)	d10-Acenaphthene	14.63	164.0	190785	36.72	NG/UL	94
32)	Hexachlorocyclopentadiene	12.19	237.0	6266	2.48	NG/UL	85
33)	2,4,6-Trichlorophenol	12.45	196.0	8446	3.84	NG/UL	93
34)	2,4,5-Trichlorophenol	12.45	196.0	8446	3.66	NG/UL	93
35)	2-Chloronaphthalene	12.85	162.0	24910	3.50	NG/UL	91
36)	2-Fluorobiphenyl	12.73	172.0	36599	3.93	NG/UL	89
37)	2-Nitroaniline	13.37	138.0	8658	3.53	NG/UL	91
39)	*d-10-Phenanthrene	19.17	188.0	190598	50.00	NG/UL	96
40)	Acenaphthylene	14.12	152.0	37192	6.15	NG/UL	90
41)	3-Nitroaniline	14.69	138.0	5773	6.15	NG/UL	82
42)	Acenaphthene	14.72	153.0	25859	6.76	NG/UL	98
44)	4-Nitrophenol	15.57	109.0	95	.28	NG/UL	86
45)	Dibenzofuran	15.23	168.0	27960	5.74	NG/UL	81

	Compound	R.T.	Q ion	Area	Conc	Units	q
46)	2,4-Dinitrotoluene	15.52	165.0	6180	5.73	NG/UL	82
47)	2,6-Dinitrotoluene	14.35	165.0	6462	7.22	NG/UL	89
48)	Diethylphthalate	16.53	149.0	27703	7.68	NG/UL	96
49)	4-Chlorophenyl-phenylether	16.50	204.0	11684	7.04	NG/UL	96
50)	Fluorene	16.30	166.0	20115	5.53	NG/UL	98
51)	4-Nitroaniline	16.58	138.0	4182	5.49	NG/UL	74
52)	4,6-Dinitro-2-methylphenol	16.74	198.0	725	1.50	NG/UL	82
53)	N-Nitrosodiphenylamine	16.92	169.0	9270	9.35	NG/UL	92
55)	4-Bromophenyl-phenylether	17.99	248.0	5583	5.42	NG/UL	99
56)	Hexachlorobenzene	18.28	284.0	5121	4.19	NG/UL	94
57)	Pentachlorophenol	18.91	265.8	1238	1.86	NG/UL	93
58)	Phenanthrene	19.23	178.0	22862	5.30	NG/UL	99
59)	Anthracene	19.23	178.0	22862	5.37	NG/UL	99
60)	Di-n-Butylphthalate	21.74	149.0	29087	5.66	NG/UL	97
61)	Fluoranthene	22.96	202.0	15667	4.06	NG/UL	95
62)	d12-Chrysene > BP 276	27.47	240.0	82366	32.30	NG/UL	96
63)	Pyrene	23.61	202.0	16253	4.27	NG/UL	94
64)	Terphenyl-d14	24.46	244.0	14104	3.78	NG/UL	89
65)	Butylbenzylphthalate	26.34	149.0	7624	4.16	NG/UL	57
66)	Benzo(a)Anthracene	27.43	228.0	10057	3.34	NG/UL	95
67)	Bis(2-Ethylhexyl)Phthalate	28.42	149.0	11441	4.51	NG/UL	89
68)	Chrysene	27.43	228.0	10057	3.59	NG/UL	91
69)	*d12-Perylene	31.55	264.0	34970	50.00	NG/UL	94
71)	Benzo(b)fluoranthene	30.64	252.0	4969	5.84	NG/UL	90
72)	Benzo(k)Fluoranthene	30.64	252.0	4969	6.02	NG/UL	90
73)	Benzo(a)Pyrene	31.41	252.0	3182	4.56	NG/UL	90

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >BP276::SK Quant Output File: ^BP276::C3
Name: TOXSTD 5PPM
Misc: 07/18/90 SF7261 7262 BTL#19

Id File: IDBP1D::C4
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900628 15:27

Operator ID: KELLY
Quant Time: 900719 11:03
Injected at: 900719 10:18

QUANT REPORT

Operator ID: KELLY Quant Rev: 6 Quant Time: 900719 11:54
Output File: ^BP277::C3 Injected at: 900719 11:09
Data File: >BP277::SK Dilution Factor: 1.00000
Name: TOXSTD 1PPM
Misc: 07/18/90 SF7261 7262 BTL#20

ID File: IDBP1D::C4
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900628 15:27

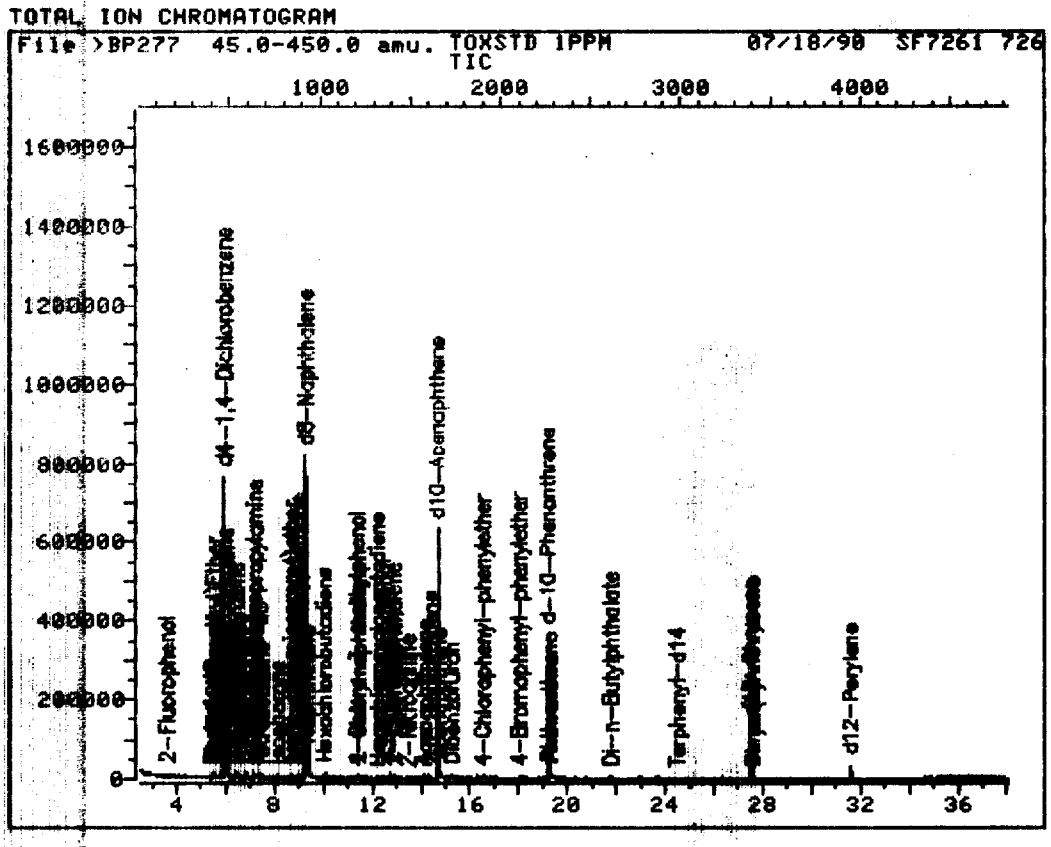
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.92	152.0	293085	50.00	NG/UL	97
2)	2-Fluorophenol	3.58	112.0	6732	.64	NG/UL	95
3)	Phenol-d5	5.39	99.0	5564	.41	NG/UL	76
4)	Phenol	5.41	94.0	6660	.48	NG/UL	94
5)	bis(2-Chloroethyl)Ether	5.51	93.0	7619	.55	NG/UL	84
6)	2-Chlorophenol	5.53	128.0	5935	.67	NG/UL	92
7)	1,3-Dichlorobenzene	5.95	146.0	7311	.83	NG/UL	79
8)	1,4-Dichlorobenzene	5.95	146.0	7311	.76	NG/UL	80
9)	Benzyl Alcohol	6.41	108.0	1329	.21	NG/UL	74
10)	1,2-Dichlorobenzene	6.38	146.0	6470	.71	NG/UL	84
11)	2-Methylphenol	6.82	108.0	4929	.54	NG/UL	93
12)	bis(2-Chloroisopropyl)ether	8.65	121.0	1562	.42	NG/UL	82
13)	4-Methylphenol	7.22	108.0	4114	.44	NG/UL	99
14)	N-Nitroso-Di-n-propylamine	7.18	70.0	3885	.41	NG/UL	95
15)	Hexachloroethane	7.14	201.0	1924	.65	NG/UL	89
16)	d8-Naphthalene	9.26	136.0	904904	36.34	NG/UL	90
17)	Nitrobenzene-d5	7.35	82.0	7152	.52	NG/UL	85
18)	Nitrobenzene	7.40	123.0	2888	.60	NG/UL	91
19)	Isophorone	8.09	82.0	9850	.42	NG/UL	94
23)	bis(2-Chloroethoxy)Methane	8.90	93.0	7010	.45	NG/UL	94
24)	2,4-Dichlorophenol	8.99	162.0	2063	.35	NG/UL	95
26)	Naphthalene	9.30	128.0	14357	.57	NG/UL	92
28)	Hexachlorobutadiene	10.00	225.0	2927	.78	NG/UL	91
29)	4-Chloro-3-methylphenol	11.34	107.0	2188	.30	NG/UL	83
30)	2-Methylnaphthalene	11.40	142.0	6801	.51	NG/UL	94
31)	d10-Acenaphthene	14.63	164.0	270861	32.03	NG/UL	94
32)	Hexachlorocyclopentadiene	12.19	237.0	328	.08	NG/UL	65
33)	2,4,6-Trichlorophenol	12.45	196.0	928	.26	NG/UL	91
34)	2,4,5-Trichlorophenol	12.45	196.0	928	.25	NG/UL	91
35)	2-Chloronaphthalene	12.85	162.0	5546	.48	NG/UL	92
36)	2-Fluorobiphenyl	12.72	172.0	8518	.56	NG/UL	96
37)	2-Nitroaniline	13.43	138.0	235	.06	NG/UL	60
39)	*d-10-Phenanthrene	19.18	188.0	262919	50.00	NG/UL	98
40)	Acenaphthylene	14.11	152.0	8462	1.01	NG/UL	93
42)	Acenaphthene	14.72	153.0	6188	1.17	NG/UL	93
45)	Dibenzofuran	15.24	168.0	6597	.98	NG/UL	93
47)	2,6-Dinitrotoluene	14.35	165.0	301	.24	NG/UL	66
49)	4-Chlorophenyl-phenylether	16.49	204.0	2371	1.04	NG/UL	79
55)	4-Bromophenyl-phenylether	17.99	248.0	705	.50	NG/UL	73
58)	Phenanthrene	19.23	178.0	5129	.86	NG/UL	99
59)	Anthracene	19.23	178.0	5129	.87	NG/UL	99
60)	Di-n-Butylphthalate	21.74	149.0	6202	.87	NG/UL	92
62)	d12-Chrysene	27.47	240.0	91417	25.99	NG/UL	94

	Compound	R.T.	Q ion	Area	Conc	Units	q
64)	Terphenyl-d14	24.47	244.0	1624	.32	NG/UL	94
66)	Benzo(a)Anthracene	27.54	228.0	1701	.41	NG/UL	76
68)	Chrysene	27.54	228.0	1701	.44	NG/UL	77
69)	*d12-Perylene	31.56	264.0	30758	50.00	NG/UL	94

> BP277

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >BP277::SK Quant Output File: ^BP277::C3
Name: TOXSTD 1PPM
Misc: 07/18/90 SF7261 7262 BTL#20

Id File: IDBP1D::C4
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900628 15:27

Operator ID: KELLY
Quant Time: 900719 11:54
Injected at: 900719 11:09

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

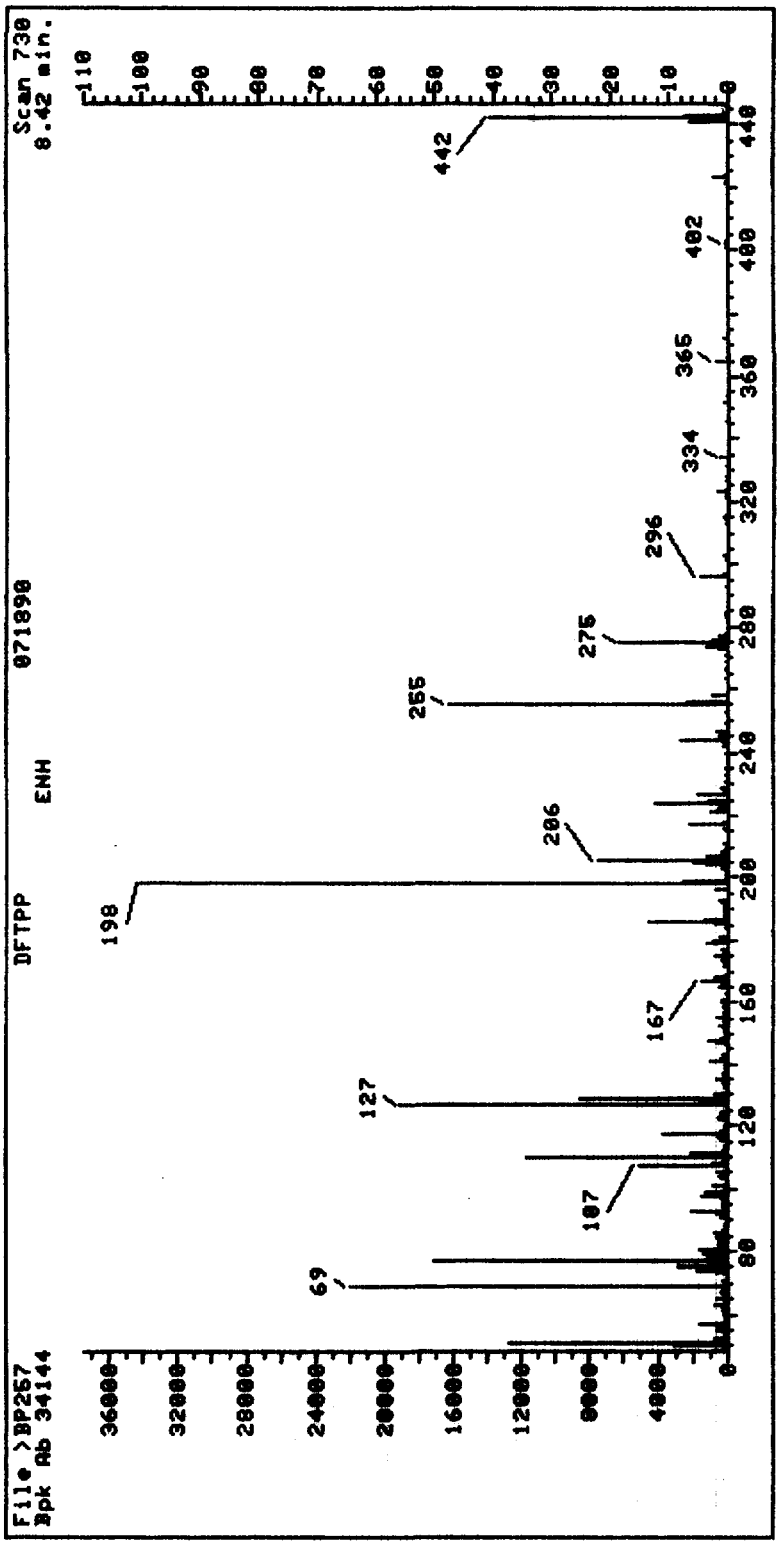
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
51	30-60% of mass 198	37.50	37.50	Ok
68	Less than 2% of mass 69	.67	1.04	Ok
69	(reference only)	64.38	64.38	Ok
70	Less than 2% of mass 69	.70	1.09	Ok
127	40-60% of mass 198	55.89	55.89	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	7.37	7.37	Ok
275	10-30% of mass 198	18.34	18.34	Ok
365	Greater than 1% of mass 198	2.14	2.14	Ok
441	0-100% of mass 443	6.41	90.82	Ok
442	Greater than 40% of mass 198	40.66	40.66	Ok
443	17-23% of mass 442	7.05	17.35	Ok

Injection Date: 07/18/90
Injection Time: 13:40
Data File: >BP257
Scan: 730

MS data file header from : >BP257

Sample: DFTPP Operator: CARSTEN MS 7/18/90 13:40
Misc : 071890
Sys. #: 1 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: M_DFTP Tuning file: MT5987 No. of extra records: 2
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0



MS data file header from : >BP257

Sample: DFTPP Operator: CARSTEN MS 7/18/90 13:40
Misc : 071890
Sys. #: 1 MS model: 87 SW/HW rev.: IA ALS # : 0

Method File: [illegible] Tuning File: [illegible]

Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

>BP257

>BP257 DFTPP 071890
730 ENH

File: >BP257 Scan #: 730 Retn. time: 8.42

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
47.80	34.2	100.25	49.4	152.40	75.2	208.20	277.0	284.75	12.6
48.55	171.6	100.90	770.0	153.00	417.4	209.05	119.6	285.15	17.2
49.95	3106.6	103.15	314.6	153.90	197.6	209.95	134.4	286.25	5.0
50.95	12805.6	104.00	436.2	155.15	529.6	211.05	252.8	293.00	95.8
52.05	693.2	105.15	639.6	157.15	158.4	212.45	4.0	296.00	1581.0
53.70	25.6	107.15	5101.8	158.00	84.2	213.95	10.4	297.00	206.6
54.95	605.6	108.15	887.0	159.00	161.2	214.95	48.2	301.25	30.0
56.00	447.2	108.90	145.2	160.15	286.8	216.05	170.4	303.15	247.4
57.00	1570.2	110.15	11703.0	161.15	350.4	217.05	2147.2	309.75	7.4
58.25	44.8	111.00	2057.4	163.00	99.2	217.95	261.2	313.15	31.8
59.00	102.8	111.90	198.2	165.15	405.8	221.05	965.8	314.15	74.4
60.15	227.8	112.15	45.0	166.15	345.8	223.05	392.6	315.00	224.8
61.15	191.4	113.15	83.4	167.20	1469.0	224.05	4206.6	316.00	32.0
62.00	228.6	115.15	289.4	168.20	724.0	225.05	1047.2	321.15	39.4
62.25	148.0	116.00	408.0	169.05	119.6	227.05	1691.0	321.90	19.0
63.00	641.0	117.15	3724.0	171.95	229.2	227.95	254.4	323.00	624.6
65.00	523.6	118.00	294.2	173.05	196.8	229.05	311.6	324.15	82.6
66.90	324.4	118.90	80.2	174.05	385.4	229.95	17.6	326.40	7.8
67.90	227.8	119.75	114.4	175.20	697.2	231.05	94.0	326.90	74.8
69.00	21983.1	120.40	22.4	175.95	232.4	232.70	45.8	327.75	52.0
70.25	239.0	122.15	438.2	177.30	383.0	234.80	91.6	328.40	14.4
73.00	556.8	123.15	514.8	179.05	1205.8	240.05	18.6	331.75	33.4
74.00	1723.4	124.00	282.2	180.05	774.6	242.05	222.2	332.50	16.4
75.00	2787.2	127.15	19083.5	181.20	456.6	242.95	151.8	334.00	395.4
76.15	949.6	128.15	1514.6	184.05	129.4	244.05	2744.2	339.40	10.8
77.15	17100.4	129.00	8489.6	185.20	703.4	245.20	425.0	340.75	14.2
78.00	1132.2	130.00	687.8	186.20	4551.0	246.20	624.8	346.00	83.4
79.15	1343.8	132.15	57.0	187.05	1306.2	246.80	15.6	352.15	154.6
80.00	1096.8	133.15	117.8	188.05	153.2	249.20	96.2	354.00	117.8
81.00	1523.8	133.65	73.8	188.30	42.4	252.95	66.8	364.90	729.6
82.15	498.0	133.90	232.4	189.20	152.8	255.05	16274.2	365.90	59.0
83.25	461.8	135.00	579.6	190.20	66.4	256.05	2339.2	368.00	12.0
85.00	543.8	136.15	261.0	191.05	145.2	258.05	830.6	370.75	17.2
86.00	672.4	137.15	251.0	191.95	373.0	263.80	24.0	372.00	219.8
86.90	177.8	138.25	93.6	193.05	416.8	265.95	70.0	400.95	23.4
87.65	75.4	140.00	109.4	196.05	650.2	266.20	19.0	401.95	100.6
88.00	77.2	140.90	981.4	198.05	34144.1	266.95	18.6	402.95	95.4
88.90	36.8	142.15	346.2	199.05	2515.2	268.95	24.8	403.55	11.6
91.00	302.4	143.00	206.8	199.95	131.2	270.95	94.6	420.95	88.6
92.00	526.4	146.40	71.6	201.30	120.2	273.05	457.6	421.80	55.8
93.15	2040.6	147.15	536.0	201.55	101.2	273.95	1221.0	422.95	787.0
94.00	242.4	148.00	1055.8	202.05	24.8	275.05	6260.4	424.05	122.8
95.15	155.6	149.00	376.0	202.95	281.4	276.05	828.8	440.95	2187.4
96.25	268.8	150.15	61.2	203.20	62.4	276.95	512.0	441.95	13883.8
97.15	279.4	150.75	63.0	204.05	1165.2	278.00	24.2	442.95	2408.4
98.00	1465.2	151.15	91.8	205.05	1960.6	283.15	101.8	443.80	224.6
99.15	1233.0	151.75	144.2	206.05	7556.0	284.00	31.4	446.05	119.8
99.90	125.8	152.00	89.8	207.05	1180.4	284.40	53.2	447.05	26.6

MS data file header from : >BP257

Sample: [illegible]
Misc : [illegible]
Sys. #: 1 MS model: [illegible] rev.: [illegible] HS # : [illegible]
Method file: M_DFTP Tuning file: MT5987 No. of extra records: 2
Source temp.: 200 Analyzer temp.: 0 Transfer line temp. : 0

Chromatographic temperatures :	0.	0.	0.	0.	0.
Chromatographic times, min. :	0.0	0.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	0.0	0.0	0.0	0.0	0.0

>BP257

QUANT REPORT

Operator ID: KELLY Quant Rev: 6 Quant Time: 900828 08:21
Output File: ^BP278::C3 Injected at: 900719 12:01
Data File: >BP278::SK Dilution Factor: 1.00000
Name: TOXSTD MATRIXSPIKE
Misc: 07/18/90 SF7261 7262 BTL#21

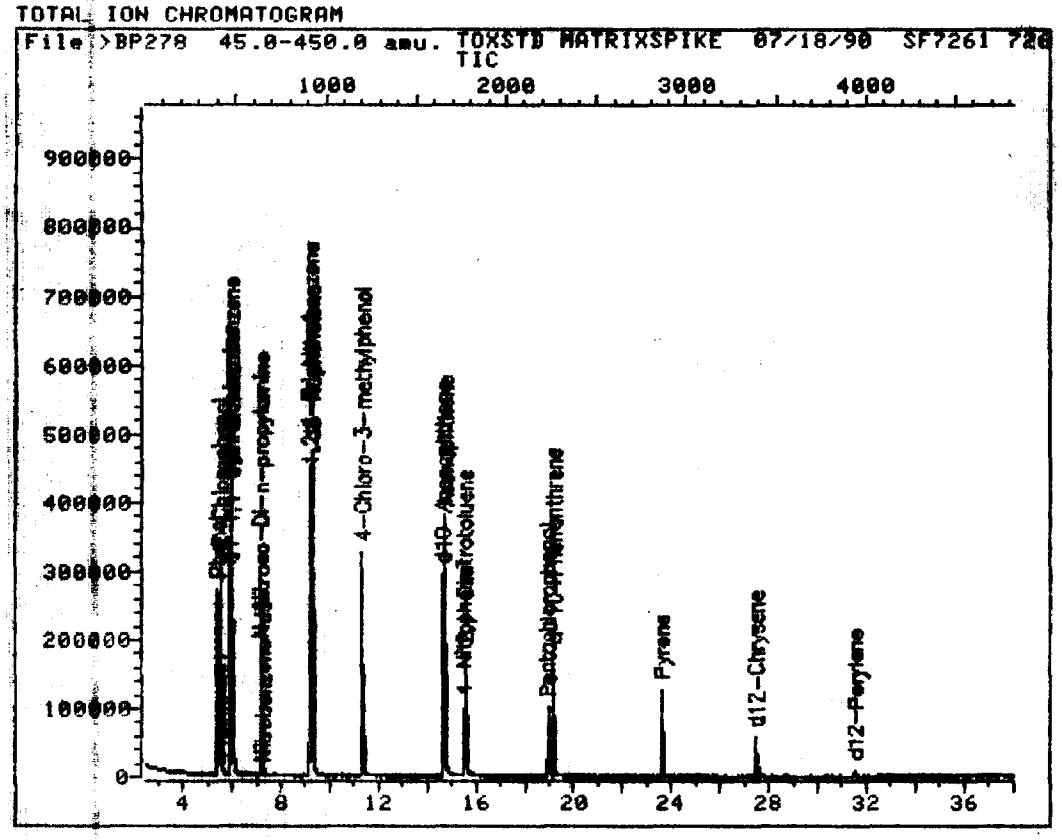
ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900720 11:16

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.90	461	141544	50.00	NG/UL	96
3)	Phenol-d5	5.63	424	236	.05	NG/UL	80
4)	Phenol	5.40	393	273314	58.19	NG/UL	82
6)	2-Chlorophenol	5.51	408	227600	57.00	NG/UL	98
7)	1,3-Dichlorobenzene	5.94	467	245377	60.54	NG/UL	95
8)	1,4-Dichlorobenzene	5.94	467	245377	52.48	NG/UL	96
14)	N-Nitroso-Di-n-propylamine	7.17	633	170985	74.80	NG/UL	91
16)	d8-Naphthalene	9.25	915	472675	50.25	NG/UL	88
17)	Nitrobenzene-d5	7.26	645	126	.03	NG/UL	82
25)	1,2,4-Trichlorobenzene	9.18	906	197118	74.19	NG/UL	97
29)	4-Chloro-3-methylphenol	11.34	1198	156848	66.36	NG/UL	91
31)	d10-Acenaphthene	14.63	1645	131344	62.95	NG/UL	92
39)	*d-10-Phenanthrene	19.18	2261	128025	50.00	NG/UL	97
42)	Acenaphthene	14.73	1658	203054	33.30	NG/UL	97
44)	4-Nitrophenol	15.49	1761	27899	46.48	NG/UL	91
46)	2,4-Dinitrotoluene	15.53	1766	63089	49.47	NG/UL	96
57)	Pentachlorophenol	18.91	2225	19497	53.97	NG/UL	94
62)	d12-Chrysene	27.47	3387	42057	53.56	NG/UL	95
63)	Pyrene	23.61	2863	116702	72.99	NG/UL	94
69)	*d12-Perylene	31.55	3942	10364	50.00	NG/UL	83

* Compound is ISTD

:AL,,3 Move cursor; then press carriage return :
:AL,,3 Move cursor; then press carriage return :

TOTAL ION CHROMATOGRAM



Data File: >BP278::SK Quant Output File: ^BP278::C3
Name: TOXSTD MATRIXSPIKE
Misc: 07/18/90 SF7261 7262 BTL#21

Id File: IDBP1D::C4
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900628 15:27

Operator ID: KELLY
Quant Time: 900719 12:46
Injected at: 900719 12:01

QUANT REPORT

Operator ID: KELLY Quant Rev: 6 Quant Time: 900723 08:22
Output File: ^BP278::C3 Injected at: 900719 12:01
Data File: >BP278::SK Dilution Factor: 1.00000
Name: TOXSTD MATRIXSPIKE
Misc: 07/18/90 SF7261 7262 BTL#21

ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900720 11:16

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.90	461	141544	50.00	NG/UL	96
3)	Phenol-d5	5.63	424	236	.05	NG/UL	80
4)	Phenol	5.40	393	273314	58.19	NG/UL	82
6)	2-Chlorophenol	5.51	408	227600	57.00	NG/UL	98
7)	1,3-Dichlorobenzene	5.94	467	245377	60.54	NG/UL	95
8)	1,4-Dichlorobenzene	5.94	467	245377	52.48	NG/UL	96
14)	N-Nitroso-Di-n-propylamine	7.17	633	170985	74.80	NG/UL	91
16)	d8-Naphthalene	9.25	915	472675	50.25	NG/UL	88
17)	Nitrobenzene-d5	7.26	645	126	.03	NG/UL	82
25)	1,2,4-Trichlorobenzene	9.18	906	197118	74.19	NG/UL	97
29)	4-Chloro-3-methylphenol	11.34	1198	156848	66.36	NG/UL	91
31)	d10-Acenaphthene	14.63	1645	131344	62.95	NG/UL	92
39)	*d-10-Phenanthrene	19.18	2261	128025	50.00	NG/UL	97
42)	Acenaphthene	14.73	1658	203054	33.30	NG/UL	97
44)	4-Nitrophenol	15.49	1761	27899	46.48	NG/UL	91
46)	2,4-Dinitrotoluene	15.53	1766	63089	49.47	NG/UL	96
57)	Pentachlorophenol	18.91	2225	19497	53.97	NG/UL	94
62)	d12-Chrysene	27.47	3387	42057	53.56	NG/UL	95
63)	Pyrene	23.61	2863	116702	72.99	NG/UL	94
69)	*d12-Perylene	31.55	3942	10364	50.00	NG/UL	83

* Compound is ISTD

QUANT REPORT

Operator ID: KELLY
Output File: ^BP275::C3
Data File: >BP275::SK
Name: TOXSTD10PPM
Misc: 07/18/90 SF7261 7262

Quant Rev: 6
Quant Time: 900723 08:02
Injected at: 900719 09:26
Dilution Factor: 1.00000
BTL#18

ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900720 11:16

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.93	465	282694	50.00	NG/UL	97
2)	2-Fluorophenol	3.59	148	77718	9.34	NG/UL	90
3)	Phenol-d5	5.40	393	91788	9.32	NG/UL	93
4)	Phenol	5.43	397	89839	9.58	NG/UL	75
5)	bis(2-Chloroethyl)Ether	5.51	409	89176	9.76	NG/UL	99
6)	2-Chlorophenol	5.54	412	72655	9.11	NG/UL	98
7)	1,3-Dichlorobenzene	5.96	469	83418	10.31	NG/UL	95
8)	1,4-Dichlorobenzene	5.96	469	83418	8.93	NG/UL	95
9)	Benzyl Alcohol	6.39	528	42708	9.35	NG/UL	84
10)	1,2-Dichlorobenzene	6.39	527	81749	9.25	NG/UL	96
11)	2-Methylphenol	6.82	586	60942	8.94	NG/UL	85
12)	bis(2-Chloroisopropyl)ether	8.65	833	26750	9.90	NG/UL	72
13)	4-Methylphenol	7.22	640	62137	9.18	NG/UL	90
14)	N-Nitroso-Di-n-propylamine	7.17	633	50968	11.16	NG/UL	82
15)	Hexachloroethane	7.15	630	27985	9.50	NG/UL	92
16)	d8-Naphthalene	9.26	915	965343	51.39	NG/UL	88
17)	Nitrobenzene-d5	7.36	658	94237	10.64	NG/UL	93
18)	Nitrobenzene	7.40	664	39904	9.98	NG/UL	93
19)	Isophorone	8.09	757	132747	10.88	NG/UL	94
20)	2-Nitrophenol	8.28	783	34425	9.45	NG/UL	94
21)	2,4-Dimethylphenol	8.65	833	44811	9.55	NG/UL	93
22)	Benzoic Acid	8.97	876	10802	4.36	NG/UL	78
23)	bis(2-Chloroethoxy)Methane	8.90	867	90938	10.36	NG/UL	94
24)	2,4-Dichlorophenol	8.98	878	46537	9.41	NG/UL	92
25)	1,2,4-Trichlorobenzene	9.19	906	50761	9.57	NG/UL	91
26)	Naphthalene	9.31	922	171104	9.25	NG/UL	98
27)	4-Chloroaniline	9.66	969	19612	8.55	NG/UL	91
28)	Hexachlorobutadiene	10.00	1015	33759	9.55	NG/UL	88
29)	4-Chloro-3-methylphenol	11.32	1195	48548	10.28	NG/UL	97
30)	2-Methylnaphthalene	11.39	1204	73720	8.92	NG/UL	94
31)	d10-Acenaphthene	14.62	1641	250523	60.12	NG/UL	93
32)	Hexachlorocyclopentadiene	12.18	1311	20673	8.87	NG/UL	96
33)	2,4,6-Trichlorophenol	12.44	1346	22078	9.90	NG/UL	93
34)	2,4,5-Trichlorophenol	12.53	1358	21650	9.77	NG/UL	74
35)	2-Chloronaphthalene	12.84	1400	68710	10.08	NG/UL	94
36)	2-Fluorobiphenyl	12.71	1383	99382	9.63	NG/UL	96
37)	2-Nitroaniline	13.37	1471	23499	9.92	NG/UL	99
38)	Dimethylphthalate	14.24	1590	74490	12.67	NG/UL	89
39)	*d-10-Phenanthrene	19.16	2255	187879	50.00	NG/UL	99
40)	Acenaphthylene	14.10	1571	97069	7.29	NG/UL	93
41)	3-Nitroaniline	14.67	1648	15657	7.05	NG/UL	91
42)	Acenaphthene	14.71	1653	67440	7.54	NG/UL	92
44)	4-Nitrophenol	15.46	1755	6767	7.68	NG/UL	91

	Compound	R.T.	Scan#	Area	Conc	Units	q
45)	Dibenzofuran	15.22	1722	71428	7.60	NG/UL	94
46)	2,4-Dinitrotoluene	15.51	1761	14378	7.68	NG/UL	99
47)	2,6-Dinitrotoluene	14.34	1603	16240	7.67	NG/UL	99
48)	Diethylphthalate	16.53	1899	59403	8.76	NG/UL	85
49)	4-Chlorophenyl-phenylether	16.49	1894	24634	7.03	NG/UL	95
50)	Fluorene	16.29	1867	47773	8.03	NG/UL	96
51)	4-Nitroaniline	16.57	1905	10230	7.20	NG/UL	97
52)	4,6-Dinitro-2-methylphenol	16.74	1927	3643	6.60	NG/UL	91
53)	N-Nitrosodiphenylamine	16.91	1950	18230	11.61	NG/UL	84
54)	2,4,6-Tribromophenol	17.11	1977	6831	7.73	NG/UL	96
55)	4-Bromophenyl-phenylether	17.98	2095	11869	7.99	NG/UL	93
56)	Hexachlorobenzene	18.27	2135	9479	8.90	NG/UL	93
57)	Pentachlorophenol	18.89	2219	3886	7.33	NG/UL	95
58)	Phenanthrene	19.22	2264	40666	9.39	NG/UL	89
59)	Anthracene	19.22	2264	40666	9.72	NG/UL	89
60)	Di-n-Butylphthalate	21.72	2603	46418	9.36	NG/UL	99
61)	Fluoranthene	22.95	2769	23219	9.56	NG/UL	90
62)	d12-Chrysene	27.45	3380	54749	47.51	NG/UL	98
63)	Pyrene	23.60	2857	23144	9.86	NG/UL	93
64)	Terphenyl-d14	24.44	2972	17884	8.83	NG/UL	87
65)	Butylbenzylphthalate	26.32	3227	10522	7.12	NG/UL	71
66)	Benzo(a)Anthracene	27.53	3391	13126	9.61	NG/UL	83
67)	Bis(2-Ethylhexyl)Phthalate	28.40	3509	13254	7.56	NG/UL	79
68)	Chrysene	27.53	3391	13126	10.01	NG/UL	88
69)	*d12-Perylene	31.54	3935	25064	50.00	NG/UL	95
70)	Di-n-octylphthalate	30.20	3754	10752	4.67	NG/UL	89
71)	Benzo(b)fluoranthene	30.64	3813	7265	9.85	NG/UL	93
72)	Benzo(k)Fluoranthene	30.64	3813	7265	9.19	NG/UL	93

* Compound is ISTD

QUANT REPORT

Operator ID: KELLY
Output File: `BP276::C3
Data File: >BP276::SK
Name: TOXSTD 5PPM
Misc: 07/18/90 SF7261 7262

Quant Rev: 6
Quant Time: 900723 08:08
Injected at: 900719 10:18
Dilution Factor: 1.00000

BTL#19

ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900720 11:16

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.92	467	180068	50.00	NG/UL	97
2)	2-Fluorophenol	3.59	151	25981	4.90	NG/UL	79
3)	Phenol-d5	5.39	395	32033	5.11	NG/UL	91
4)	Phenol	5.42	399	32308	5.41	NG/UL	84
5)	bis(2-Chloroethyl)Ether	5.51	411	28715	4.93	NG/UL	99
6)	2-Chlorophenol	5.53	413	23812	4.69	NG/UL	84
7)	1,3-Dichlorobenzene	5.95	471	28616	5.55	NG/UL	95
8)	1,4-Dichlorobenzene	5.95	471	28691	4.82	NG/UL	95
9)	Benzyl Alcohol	6.40	531	14668	5.04	NG/UL	81
10)	1,2-Dichlorobenzene	6.38	529	27289	4.85	NG/UL	94
11)	2-Methylphenol	6.83	589	21884	5.04	NG/UL	96
12)	bis(2-Chloroisopropyl)ether	8.66	837	9893	5.75	NG/UL	67
13)	4-Methylphenol	7.22	642	20778	4.82	NG/UL	91
14)	N-Nitroso-Di-n-propylamine	7.17	636	17861	6.14	NG/UL	66
15)	Hexachloroethane	7.14	632	10193	5.43	NG/UL	91
16)	d8-Naphthalene	9.26	919	630361	52.68	NG/UL	88
17)	Nitrobenzene-d5	7.36	661	29075	5.16	NG/UL	94
18)	Nitrobenzene	7.40	667	12656	4.97	NG/UL	96
19)	Isophorone	8.09	760	47777	6.15	NG/UL	95
20)	2-Nitrophenol	8.29	787	9694	4.18	NG/UL	78
21)	2,4-Dimethylphenol	8.66	837	17221	5.76	NG/UL	97
22)	Benzoic Acid	8.89	869	1238	.79	NG/UL	81
23)	bis(2-Chloroethoxy)Methane	8.90	870	30663	5.48	NG/UL	94
24)	2,4-Dichlorophenol	8.99	882	15436	4.90	NG/UL	97
25)	1,2,4-Trichlorobenzene	9.20	910	17496	5.18	NG/UL	94
26)	Naphthalene	9.31	925	59110	5.02	NG/UL	97
27)	4-Chloroaniline	9.67	974	7821	5.35	NG/UL	89
28)	Hexachlorobutadiene	10.01	1020	12896	5.72	NG/UL	88
29)	4-Chloro-3-methylphenol	11.34	1200	17208	5.72	NG/UL	86
30)	2-Methylnaphthalene	11.40	1209	29284	5.56	NG/UL	88
31)	d10-Acenaphthene	14.63	1646	190785	71.88	NG/UL	94
32)	Hexachlorocyclopentadiene	12.19	1315	6266	4.22	NG/UL	85
33)	2,4,6-Trichlorophenol	12.45	1351	8446	5.94	NG/UL	93
34)	2,4,5-Trichlorophenol	12.55	1364	6040	4.28	NG/UL	80
35)	2-Chloronaphthalene	12.85	1405	24910	5.74	NG/UL	91
36)	2-Fluorobiphenyl	12.73	1388	36599	5.57	NG/UL	89
37)	2-Nitroaniline	13.37	1476	8658	5.74	NG/UL	91
38)	*d-10-Phenanthrene	19.17	2262	190598	50.00	NG/UL	96
40)	Acenaphthylene	14.12	1577	37192	2.75	NG/UL	90
41)	3-Nitroaniline	14.69	1654	5773	2.56	NG/UL	82
42)	Acenaphthene	14.72	1658	25859	2.85	NG/UL	98
44)	4-Nitrophenol	15.57	1773	95	.11	NG/UL	86
45)	Dibenzofuran	15.23	1728	27960	2.93	NG/UL	81

	Compound	R.T.	Scan#	Area	Conc	Units	q
46)	2,4-Dinitrotoluene	15.52	1767	6180	3.25	NG/UL	82
47)	2,6-Dinitrotoluene	14.35	1608	6462	3.01	NG/UL	89
48)	Diethylphthalate	16.53	1904	27703	4.03	NG/UL	96
49)	4-Chlorophenyl-phenylether	16.50	1899	11684	3.29	NG/UL	96
50)	Fluorene	16.30	1873	20115	3.33	NG/UL	98
51)	4-Nitroaniline	16.58	1911	4182	2.90	NG/UL	74
52)	4,6-Dinitro-2-methylphenol	16.74	1932	725	1.29	NG/UL	82
53)	N-Nitrosodiphenylamine	16.92	1956	9270	5.82	NG/UL	92
55)	4-Bromophenyl-phenylether	17.99	2101	5583	3.71	NG/UL	99
56)	Hexachlorobenzene	18.28	2141	5121	4.74	NG/UL	94
57)	Pentachlorophenol	18.91	2227	1238	2.30	NG/UL	93
58)	Phenanthrene	19.23	2270	22862	5.20	NG/UL	99
59)	Anthracene	19.23	2270	22862	5.38	NG/UL	99
60)	Di-n-Butylphthalate	21.74	2610	29087	5.78	NG/UL	97
61)	Fluoranthene	22.96	2776	15667	6.36	NG/UL	95
62)	d12-Chrysene	27.47	3388	82366	70.46	NG/UL	96
63)	Pyrene	23.61	2864	16253	6.83	NG/UL	94
64)	Terphenyl-d14	24.46	2979	14104	6.86	NG/UL	89
65)	Butylbenzylphthalate	26.34	3235	7624	5.09	NG/UL	57
66)	Benzo(a)Anthracene	27.43	3383	10057	7.26	NG/UL	95
67)	Bis(2-Ethylhexyl)Phthalate	28.42	3517	11441	6.43	NG/UL	89
68)	Chrysene	27.43	3383	10057	7.56	NG/UL	91
69)	*d12-Perylene	31.55	3942	34970	50.00	NG/UL	94
71)	Benzo(b)fluoranthene	30.64	3819	4969	4.83	NG/UL	90
72)	Benzo(k)Fluoranthene	30.64	3819	4969	4.51	NG/UL	90
73)	Benzo(a)Pyrene	31.41	3923	3182	4.11	NG/UL	90

* Compound is ISTD

QUANT REPORT

Operator ID: KELLY Quant Rev: 6 Quant Time: 900723 08:16
Output File: ^BP277::C3 Injected at: 900719 11:09
Data File: >BP277::SK Dilution Factor: 1.00000
Mode: TOXSTD 1PPM
Misc: 07/18/90 SF7261 7262 BTL#20

ID File: IDBP1F::C5
Title: CRL SOP 625 NS HP-5987 KDH 06\28\89
Last Calibration: 900720 11:16

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	5.92	461	293085	50.00	NG/UL	97
2)	2-Fluorophenol	3.58	144	6732	.78	NG/UL	95
3)	Phenol-d5	5.39	389	5564	.54	NG/UL	76
4)	Phenol	5.41	392	6660	.68	NG/UL	94
5)	bis(2-Chloroethyl)Ether	5.51	405	7619	.80	NG/UL	84
6)	2-Chlorophenol	5.53	408	5935	.72	NG/UL	92
7)	1,3-Dichlorobenzene	5.95	465	7311	.87	NG/UL	79
8)	1,4-Dichlorobenzene	5.95	465	7311	.76	NG/UL	80
9)	Benzyl Alcohol	6.41	527	1329	.28	NG/UL	74
10)	1,2-Dichlorobenzene	6.38	523	6470	.71	NG/UL	84
11)	2-Methylphenol	6.82	583	4929	.70	NG/UL	93
12)	bis(2-Chloroisopropyl)ether	8.65	831	1562	.56	NG/UL	82
13)	4-Methylphenol	7.22	637	4114	.59	NG/UL	99
14)	N-Nitroso-Di-n-propylamine	7.18	631	3885	.82	NG/UL	95
15)	Hexachloroethane	7.14	626	1924	.63	NG/UL	89
16)	d8-Naphthalene	9.26	913	904904	46.46	NG/UL	90
17)	Nitrobenzene-d5	7.35	655	7152	.78	NG/UL	85
18)	Nitrobenzene	7.40	661	2888	.70	NG/UL	91
19)	Isophorone	8.09	755	9850	.78	NG/UL	94
23)	bis(2-Chloroethoxy)Methane	8.90	865	7010	.77	NG/UL	94
24)	2,4-Dichlorophenol	8.99	877	2063	.40	NG/UL	95
26)	Naphthalene	9.30	919	14357	.75	NG/UL	92
28)	Hexachlorobutadiene	10.00	1013	2927	.80	NG/UL	91
29)	4-Chloro-3-methylphenol	11.34	1195	2188	.45	NG/UL	83
30)	2-Methylnaphthalene	11.40	1203	6801	.79	NG/UL	94
31)	d10-Acenaphthene	14.63	1642	270861	62.70	NG/UL	94
32)	Hexachlorocyclopentadiene	12.19	1311	328	.14	NG/UL	65
33)	2,4,6-Trichlorophenol	12.45	1346	928	.40	NG/UL	91
34)	2,4,5-Trichlorophenol	12.56	1361	880	.38	NG/UL	89
35)	2-Chloronaphthalene	12.85	1400	5546	.79	NG/UL	92
36)	2-Fluorobiphenyl	12.72	1383	8518	.80	NG/UL	96
37)	2-Nitroaniline	13.43	1478	235	.10	NG/UL	60
39)	*d10-Phenanthrene	19.18	2258	262919	50.00	NG/UL	98
40)	Acenaphthylene	14.11	1571	8462	.45	NG/UL	93
42)	Acenaphthene	14.72	1654	6188	.49	NG/UL	93
45)	Dibenzofuran	15.24	1724	6597	.50	NG/UL	93
47)	2,6-Dinitrotoluene	14.35	1603	301	.10	NG/UL	66
49)	4-Chlorophenyl-phenylether	16.49	1894	2371	.48	NG/UL	79
55)	4-Bromophenyl-phenylether	17.99	2097	705	.34	NG/UL	73
56)	Phenanthrene	19.23	2265	5129	.85	NG/UL	99
59)	Anthracene	19.23	2265	5129	.88	NG/UL	99
60)	Di-n-Butylphthalate	21.74	2606	6202	.89	NG/UL	92
62)	d12-Chrysene	27.47	3384	91417	56.69	NG/UL	94

	Compound	R.T.	Scan#	Area	Conc	Units	Q
64)	Terphenyl-d14	24.47	2977	1624	.57	NG/UL	94
66)	Benzo(a)Anthracene	27.54	3394	1701	.89	NG/UL	74
68)	Chrysene	27.54	3394	1701	.93	NG/UL	97
69)	*d12-Perylene	31.56	3939	30758	50.00	NG/UL	[illegible]

* Compound is ISTD

A/BN BENCH SHEET

DATA SET: SF7262 SAMPLE TYPE: Water EXTRACTION METHOD: Sep. fun.

SAMPLE #	SAMPLE AMOUNT	FINAL VOL.	SOLVENT EXTRACT.	DILUTION w/HEXANE 1st	2nd	3rd	EXTR VOL.
90FT20SS3	1.L	1.0ml					
ABN-MS 90FT20SS3	1L	1.0ml					
ABN-MSD 90FT20SS3	1L	1.0ml					
90FT20SS4	1L	1.0ml					
90FT20DS4	1L	1.0ml					
90FT02R95	1L	1.0ml					
Method Blank	1L	1.0ml					

DATE EXTRACTED: 07/13/90 PREP. CHEM.: AK(W)
DATE CONCENTRATED: 07/17/90 PREP. CHEM.: AK(W) SF
DATE RECEIVED: 7/7/90 N.F. GC/MS CHEM.:

REMARKS: 0.75ml of ABN (100µg/ml) Surrogate solution (prep date 6-27-90) was added to all of the ABN samples. 0.75ml of ABN (100µg/ml) matrix spike solution was added to the ABN-MS/MSD. (PREP. date 5/2/90 - Acid, 5/2/90 - Base) 20µl of ISTD (50µg/ml) was added to each ABN sample upon completion before submitting to GC/MS for analysis.

Individual who performed spiking: [illegible]
Individual who witness: Sandra [illegible]

>BP257 DFTPP

Sequence File: BABP20::KS

Tune File: MT5987

CR List: C8,C3
CR Cut-off: 6000 blocks.

Number of samples: 21

Report Data Archive
Quant | | ID Archive
Sample Size | | | | Output Archive
Bottle | | | | | |

Samp No.	Data File / Method File	Sample Name / Misc Data	Report Data Archive / Quant	Quant ID / Quant Output
001)	>BP258	TOXSTD100PPM	01 3 Y M N N N	IDBP1D::C4
	TOXIC1	07/18/90	Dil=1.00000	^BP258::C3
	REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#			
002)	>BP259	TOXSTD 50PPM	02 3 Y M N N N	IDBP1D::C4
	TOXIC1	07/18/90	Dil=1.00000	^BP259::C3
	REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#			
003)	>BP260	TOXSTD 25PPM	03 3 Y M N N N	IDBP1D::C4
	TOXIC1	07/18/90	Dil=1.00000	^BP260::C3
	REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#			
004)	>BP261	SF7261 METHODBLANK	04 3 Y M N N N	IDBP1D::C4
	TOXIC1	07/18/90	Dil=1.00000	^BP261::C3
	REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#			
005)	>BP262	SF7261 90FU20S55	05 3 Y M N N N	IDBP1D::C4
	TOXIC1	07/18/90 1L/1ML	Dil=1.00000	^BP262::C3
	REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#			
006)	>BP263	SF7261 90FU20S56	06 3 Y M N N N	IDBP1D::C4
	TOXIC1	07/18/90 1L/1ML	Dil=1.00000	^BP263::C3
	REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#			
007)	>BP264	SF7261 90FU20D56	07 3 Y M N N N	IDBP1D::C4
	TOXIC1	07/18/90 1L/1ML	Dil=1.00000	^BP264::C3
	REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#			
008)	>BP265	SF7261 90FU20R96	08 3 Y M N N N	IDBP1D::C4
	TOXIC1	07/18/90 1L/1ML	Dil=1.00000	^BP265::C3
	REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#			
009)	>BP266	SF7261 90FU20S55MS	09 3 Y M N N N	IDBP1D::C4
	TOXIC1	07/18/90 1L/1ML	Dil=1.00000	^BP266::C3
	REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#			
010)	>BP267	SF7261 90FU20S55MSD	10 3 Y M N N N	IDBP1D::C4
	TOXIC1	07/18/90 1L/1ML	Dil=1.00000	^BP267::C3
	REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#			
011)	>BP268	SF7262 METHODBLANK	11 3 Y M N N N	IDBP1D::C4
	TOXIC1	07/18/90 1L/1ML	Dil=1.00000	^BP268::C3
	REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#			
012)	>BP269	SF7262 90FT20S53MSD	12 3 Y M N N N	IDBP1D::C4
	TOXIC1	07/18/90 1L/1ML	Dil=1.00000	^BP269::C3
	REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#			
013)	>BP270	SF7262 90FT20S54	13 3 Y M N N N	IDBP1D::C4
	TOXIC1	07/18/90 1L/1ML	Dil=1.00000	^BP270::C3
	REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#			
014)	>BP271	SF7262 90FT20D54	14 3 Y M N N N	IDBP1D::C4
	TOXIC1	07/18/90 1L/1ML	Dil=1.00000	^BP271::C3
	REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#			

```
015) >BP2[illegible]                                  [illegible] Y [illegible] N N N     IDBP1D::C4
     TOXIC1          07/18/90  1L/1ML                  Dil=1.00000     ^BP272::C3
     REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#
016) >BP273          SF7262 90FT20S53MS -        16 3 Y M N N N     IDBP1D::C4
     TOXIC1          07/18/90  1L/1ML                  Dil=1.00000     ^BP273::C3
     REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#
017) >BP274          SF7262 90FT20S53[illegible]        17 3 Y M N N N     IDBP1D::C4
     TOXIC1          07/18/90  1L/1ML                  Dil=1.00000     ^BP274::C3
     REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#
018) >BP275          TOXSTD10PPM                 18 3 Y M N N N     IDBP1D::C4
     TOXIC1          07/18/90  SF7261 7262             Dil=1.00000     ^BP275::C3
     REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#
019) >BP276          TOXSTD 5PPM                 19 3 Y M N N N     IDBP1D::C4
     TOXIC1          07/18/90  SF7261 7262             Dil=1.00000     ^BP276::C3
     REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#
020) >BP277          TOXSTD 1PPM                 20 3 Y M N N N     IDBP1D::C4
     TOXIC1          07/18/90  SF7261 7262             Dil=1.00000     ^BP277::C3
     REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#
021) >BP278          TOXSTD MATRIXSPIKE          21 3 Y M N N N     IDBP1D::C4
     TOXIC1          07/18/90  SF7261 7262             Dil=1.00000     ^BP278::C3
     REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#

End of sequence file.

:AL,,3      Move cursor; then press carriage return :
```

BABP20

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

ATE: AUG 0 1 1990

UBJECT: Review of Region 5 data for Peerless Chain Co.

ROM: Curtis Ross, Director for [signature]
Region 5 Central Regional Laboratory

o: Data User:

tached are the results for:

CRL Data Set Numbers: SF 7262
Sample Numbers: 90 F720 S53-54 / R95
Parameter(s): CN, Hg
Laboratory: CRL- ESAT

esults Status:

(PP) ~~(X)~~ DATA ACCEPTABLE FOR USE*
(X) DATA QUALIFIED AS TO USE for Hg only; others data is acceptable.
( ) DATA UNACCEPTABLE FOR USE

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

omments by the Quality Control Coordinator:

If there are any questions regarding the data, refer them to David Payne, the Quality Control Coordinator, at 353-3805.

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

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

[illegible]
Pg

U.S. [illegible]

ECEIVED BY/DATE: _____
Comments:

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: AUG 03 1990

SUBJECT: Review of Region 5 data for Peerless Chain

FROM: Curtis Ross, Director for [signature]
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF7262
Sample Numbers: 90FTS53-S54/R95
Parameter(s): ICP
Laboratory: CRL-ESAT

Results Status:

(X) DATA ACCEPTABLE FOR USE* PP 8/2/90
( ) 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)

Cathy Rouris 8/7/90

TRANSMITTED BY
AUG 03 1990
U.S. EPA CENTRAL REGIONAL LAB

RECEIVED BY/DATE:
Comments:

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: AUG 13 1990

SUBJECT: Review of Region 5 data for PEERLESS CHAIN CO.

FROM: Curtis Ross, Director
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF 7262
Sample Numbers: 90 FT20 $53 + $54; D54, R95
Parameter(s): PCB/Pest.
Laboratory: CRL

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)

RECEIVED BY/DATE: Cathy Kouris 8/13/90
Comments:

AUG 13 1990
U.S. ENVIRONMENTAL
REGIONAL LAB

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: AUG 15 1990

SUBJECT: Review of Region 5 data for Peerless Chem Co

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

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF - 7262
Sample Numbers: 90FT20S53, -554, -D54, 90FT02R95
Parameter(s): ORGANICS - VOAs
Laboratory: 5SCRL - ESD - USEPA

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 JIM ADAMS JR. the Quality Control Coordinator, at 353-3805.

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)

RECEIVED BY
AUG 18 1990
U.S. EPA CENTRAL REGIONAL LAB

RECEIVED BY/DATE: Cathy Kouris 8/16/90

Comments:

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: AUG 30 1990

SUBJECT: Review of Region 5 data for Peerless Chem Co.

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

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF 7262
Sample Numbers: 90FT20 S53, S54, D54, 90FT02R95
Parameter(s): As, Cd, Pb, Sb, Se, Tl
Laboratory: CRL

Results Status:

(X) 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)

AUG 30 1990

RECEIVED BY/DATE: Cathy Kouris 8/30/90
Comments:

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

ATE: SEP 10 1990

UBJECT: Review of Region 5 data for Peerless Chain Co.

ROM: Curtis Ross, Director Chuck E Ely for
Region 5 Central Regional Laboratory

: - Data User:

ached are the results for:

CRL Data Set Numbers: SF7262
Sample Numbers: 90FT20S53, 90FT20S54, 90FT20D54, 90FT02R95
Parameter(s): ORGANICS - ABNs
Laboratory: 5SCRL - ESD - USEPA

sults Status:

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

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

mments by the Quality Control Coordinator:

If there are any questions regarding the data, refer them to ~~Steve Parker~~, ~~David A. Payne~~, James H. Adams, the Quality Control Coordinator, at 353-3805.

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

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

TRANSMITTED BY
SEP 10 1990
U.S. EPA CENTRAL REGIONAL LAB

CEIVED BY/DATE: Cathy Kenny 9/2/90

Comments:

USEPA REGION V CRL 09/05/90 10:25:03
SF7262 PEERLESS CHAIN CO 08/02/90 PAGE 01

WORKLIST : VOCJ0053
TEST : VOWS0

WL#	ID	REP	COMMENTS						
1	LRB					$CH_3 \cdot CCl_3$	$CHCl = CCl_2$	2-Hexanone	$CCl_2 = CCl_2$
2	LF1				$CHCl = CCl$				
3	LF2								
4	S0001384	01	90FT20 S53		0.6		2.0		4.0
5	S0001385	01	S54						
6	S0001386	01	D54						
7	S0001387	01	90FT02 R95			0.6			
			MB					1.0	
			F		1.81	0.895	0.755	0.323	1.48
			B		11.4	11.9	8.8	18.6	2.1

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: AUG 15 1990

SUBJECT: Review of Region 5 data for Peerless Chem Co

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

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF - 7262
Sample Numbers: 90FT20S53, -S54, -D54, 90FT02R95
Parameter(s): ORGANICS - VOAs
Laboratory: 5SCRL-ESD- USEPA

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 JIM ADAMS JR. the Quality Control Coordinator, at 353-3805.

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)

TRANSMITTED BY
AUG 15 1990

U.S. EPA CENTRAL
REGIONAL LAB

RECEIVED BY/DATE:

Comments:

DATA SET	SITE	DU/ACT.
SF 5 262	Peerless Chain Co	TFA 302

SAMPLES	PARAMETER(S)
90 FT20S53, -S54, -D54 FT02 R95	ORGANICS-VOAs

SAMPLED	RECEIVED	DUE	LAB
7-11-90	7-12-90	8-2-90	5SCRL-ESD-USEPA

SHIPPED	DATA RECEIVED	CONTRACT

TEAM LEADER	SECTION CHIEF	QC COORD.	DATA COORD.

Comments By Reviewer:

THE DATA ARE ACCEPTABLE FOR USE.

DATA MANAGEMENT COORDINATOR

RECEIVED	TRANSMITTED		CLERICAL SUPPORT RECEIVED	COMPLETED
(✓) REVIEWED	( ) UNREVIEWED	TEAM LEADER/DATE Babu Parmeshwari 8/6/90		
(✓) REVIEWED	( ) UNREVIEWED	SECTION CHIEF/DATE Chi Yang 8/10/90		
(✓) REVIEWED	( ) UNREVIEWED	QC COORDINATOR/DATE James H. Adams, Jr. 8/10/90		

REVIEWED BY CONTRACT COORDINATOR/DATE

RECEIVED	TRANSMITTED	DATA MANAGEMENT COORDINATOR
8/15/90	8/15/90	Suffer

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0717BLK1

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0717BLK1

Sample wt/vol: 20.0 (g/mL) ML Lab File ID: 0717BLK1

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec. 100 Date Analyzed: 07/17/90

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	B
591-78-6	2-Hexanone	1	BJ
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

0717 BLK1

108-38-3--------M-Xylene	2	U
95-47-6---------0-&/or P-Xylene	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0717BLK1

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0717BLK1

Sample wt/vol: 20 (g/mL) ML Lab File ID: 0717BLK1

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec. 100 Date Analyzed: 07/17/90

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT02R95

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 90FT02R95

Sample wt/vol: 20.0 (g/mL) ML Lab File ID: 7262R95

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec. 100 Date Analyzed: 07/17/90

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	0.6	J
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

90F TOL R95

108-38-3--------M-Xylene	2	U
95-47-6---------O-&/or P-Xylene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

90FT02R95

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 90FT02R95

Sample wt/vol: 20 (g/mL) ML Lab File ID: 7262R95

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec. 100 Date Analyzed: 07/17/90

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.17	5	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT20S53

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 90FT20S53

Sample wt/vol: 20.0 (g/mL) ML Lab File ID: 7262S53

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec. 100 Date Analyzed: 07/17/90

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	0.6	J
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	4	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

90 FT 20 553

108-38-3--------M-Xylene	2	U
95-47-6---------O-&/or P-Xylene	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

90FT20S53

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 90FT20S53

Sample wt/vol: 20 (g/mL) ML Lab File ID: 7262S53

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec. 100 Date Analyzed: 07/17/90

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	31.27	12	JX

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT20S54

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 90FT20S54

Sample wt/vol: 20.0 (g/mL) ML Lab File ID: 7262S54

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec. 100 Date Analyzed: 07/17/90

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

108-38-3--------M-Xylene	2	U
95-47-6---------O-&/or P-Xylene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

90FT20S54

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 90FT20S54

Sample wt/vol: 20 (g/mL) ML Lab File ID: 7262S54

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec. 100 Date Analyzed: 07/17/90

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT20D54

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 90FT20D54

Sample wt/vol: 20.0 (g/mL) ML Lab File ID: 7262D54

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec. 100 Date Analyzed: 07/17/90

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

108-38-3--------M-Xylene	2	U
95-47-6---------O-&/or P-Xylene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

90FT20D54

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 90FT20D54

Sample wt/vol: 20 (g/mL) ML Lab File ID: 7262D54

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec. 100 Date Analyzed: 07/17/90

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Subject: SF 7262, Peerless Chain Co.

To : File Case

From : C. Joseph C. Joseph

Date : August 1, 1990

The data set consists of four(4) samples analysed for volatiles (VOA) by GC/MS utilising EPA, CRL method 624NS. Sample numbers are 90FT20-S53, -S54, - D54, 90FT02R95. All samples were analysed within seven days of receipt.

All tunings were acceptable. The initial calibration was acceptable. The continuing calibration was acceptable with no outliers.

All internal standards areas and retention times are within QC limits. All surrogates are within QC limits except for d4-1,2-Dichloroethene for 90FT20S54(76%, QC limit 80-120%), 90FT20D54(79%), 90FT20S53MS (72%), 90FT20S53MSD(74%).

90FT20S53 was used for matrix spike(MS) and matrix spike duplicate(MSD). The spike recovery is acceptable with one exception for Trichloroethene(129% for MS, 126% for MSD, QC limits 71-120%). %RPD was acceptable and within QC limits.

90FT20S53 showed the presence of 1,2-Dichloroethene(0.6 ppb), Trichloroethene(2 ppb), Tetrachloroethene(4 ppb). 90FT20S54 and 90FT20D54 are duplicate samples and they correlated well. The Fieldblank 90FT02R95 showed trace amounts of 1,1,1-Trichlorethane(0.6 ppb). The Methodblank showed the presence of 4-Methyl-2-pentanone(3 ppb) and Hexanone(1 ppb). 90FT20S53 and 90FT02R95 showed the presence of one TIC.

~~Level 2~~ LIMS data were released by CSC without Level 2 review.
BL 10/2/90

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

TFA302

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 7/11/90 LAB ARRIVAL DATE 7/12/90 DUE DATE 8/~~1~~2/90

DU NUMBER TFA ~~102~~ DATA SET NUMBER 7262 STUDY PEERLESS CHAIN CO. PRIORITY — CONTRACTOR —

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17564	WATER ABN ORGANICS SCAN UG/L TOX 17574	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
90FT20S53	RW1 + MSD 5-089107-08-0915-089115-119	X Completed TCJ 8-1-90			
S54	RW2 5-089126-28	X			
D54	DUP 5-089135-37	X			
90FT02R95	BLANK 5-089144-6	X			
90FT20S53	RW1/MSD 5-089104 5-089110-111		X		
90FT20S54	RW2 5-089123		X		
90FT20D54	DUPLICATE 5-089132		X		
90FT02R95	BLANK 5-089141		X		

Shipment is Complete

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BEN) #	S3 (DCE) #	OTHER	TOT OUT
01	90FT02R95	117	110	83		0
02	90FT20D54	111	109	79 *		1
03	90FT20S53	110	109	80		0
04	90FT20S54	110	107	76 *		1
05	90FT20S53MS	114	111	72 *		1
06	90FT20S53MSD	114	110	74 *		1
07	0717BLK1	108	108	83		0

	QC LIMITS
S1 (TOL) = Toluene-d8	(80-120)
S2 (BEN) = Benzene-d6	(80-120)
S3 (DCE) = 1,2-Dichloroethane-d4	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Matrix Spike - EPA Sample No.: 90FT20S53

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	10.0	0	9.29	93	61-145
Trichloroethene	10.0	1.59	14.5	129 *	71-120
Benzene	10.0	0	11.3	113	76-127
Toluene	10.0	0	12.0	120	76-125
Chlorobenzene	10.0	0	12.4	124	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	10.0	9.37	94	-1	14	61-145
Trichloroethene	10.0	14.2	126 *	2	14	71-120
Benzene	10.0	11.1	111	2	11	76-127
Toluene	10.0	11.9	119	1	13	76-125
Chlorobenzene	10.0	12.3	123	1	13	75-130

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

* Values outside of QC limits

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

COMMENTS: CLP,7262,,90FT20S53,L,W,,V,EPA,
45'(3MIN) TO 220'@8'/MIN

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Lab File ID: 0717BLK1 Lab Sample ID: 0717BLK1

Date Analyzed: 07/17/90 Time Analyzed: 1756

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: INCOS1

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	90FT02R95	90FT02R95	7262R95	1840
02	90FT20D54	90FT20D54	7262D54	2054
03	90FT20S53	90FT20S53	7262S53	1926
04	90FT20S54	90FT20S54	7262S54	2010
05	90FT20S53MS	90FT20S53MS	7262S53S	2223
06	90FT20S53MSD	90FT20S53MSD	7262S53D	2308

COMMENTS: CLP,7262,,0717BLK1,L,W,,V,BLK,
45'(3MIN) TO 220'@8'/MIN

5A

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

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Lab File ID: 0702BFB1 BFB Injection Date: 07/02/90

Instrument ID: INCOS BFB Injection Time: 1107

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.7
75	30.0 - 60.0% of mass 95	46.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.5
173	Less than 2.0% of mass 174	0.4 (0.6)1
174	Greater than 50.0% of mass 95	72.3
175	5.0 - 9.0% of mass 174	5.6 (7.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	71.2 (98.5)1
177	5.0 - 9.0% of mass 176	4.6 (6.5)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0702	CC0702A	CC0702A	07/02/90	1342
02	IC10702	IC10702	IC10702	07/02/90	1621
03	IC20702	IC20702	IC20702	07/02/90	1705
04	IC40702	IC40702	IC40702	07/02/90	1750
05	IC50702	IC50702	IC50702	07/02/90	1834

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

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Lab File ID: 0717BFB1 BFB Injection Date: 07/17/90

Instrument ID: INCOS BFB Injection Time: 1512

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	43.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.9 (1.0)1
174	Greater than 50.0% of mass 95	91.6
175	5.0 - 9.0% of mass 174	7.7 (8.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	91.0 (99.3)1
177	5.0 - 9.0% of mass 176	6.9 (7.6)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0717A	CC0717A	CC0717A	07/17/90	1542
02	0717BLK1	0717BLK1	0717BLK1	07/17/90	1756
03	90FT02R95	90FT02R95	7262R95	07/17/90	1840
04	90FT20S53	90FT20S53	7262S53	07/17/90	1926
05	90FT20S54	90FT20S54	7262S54	07/17/90	2010
06	90FT20D54	90FT20D54	7262D54	07/17/90	2054
07	90FT20S53MS	90FT20S53MS	7262S53S	07/17/90	2223
08	90FT20S53MSD	90FT20S53MSD	7262S53D	07/17/90	2308

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Instrument ID: INCOS1 Calibration Date(s): 07/02/90 07/02/90

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF05 = IC10702 RRF10 = IC20702
RRF15 = CC0702A RRF20 = IC40702 RRF25 = IC50702

COMPOUND		RRF05	RRF10	RRF15	RRF20	RRF25	$\overline{RRF}$	% RSD	
Chloromethane	#	2.014	2.129	1.877	1.848	1.772	1.928	7.4	#
Bromomethane		2.287	2.430	2.032	2.129	2.068	2.189	7.6	
Vinyl Chloride	*	2.407	2.521	2.169	2.192	2.074	2.273	8.1	*
Chloroethane		1.585	1.694	1.451	1.428	1.346	1.501	9.2	
Methylene Chloride		1.989	1.959	1.722	1.679	1.648	1.799	9.0	
Acetone		0.125	0.130	0.133	0.113	0.114	0.123	7.4	
Acrolein		0.067	0.062	0.075	0.070	0.069	0.069	6.8	
Carbon Disulfide		5.938	6.365	5.645	5.551	5.267	5.753	7.3	
Acrylonitrile		0.143	0.154	0.152	0.136	0.139	0.145	5.5	
1,1-Dichloroethene	*	2.126	2.194	1.839	1.915	1.815	1.978	8.7	*
1,1-Dichloroethane	#	3.751	3.973	3.560	3.461	3.253	3.600	7.6	#
1,2-Dichloroethene (total)		2.159	2.295	1.964	1.952	1.852	2.044	8.8	
Chloroform	*	4.201	4.272	3.890	3.710	3.501	3.915	8.3	*
1,2-Dichloroethane		1.878	1.774	1.789	1.574	1.523	1.708	8.9	
2-Butanone		0.018	0.018	0.017	0.016	0.017	0.017	4.9	
1,1,1-Trichloroethane		1.094	1.111	0.991	0.978	0.907	1.016	8.4	
Carbon Tetrachloride		0.900	0.962	0.847	0.888	0.840	0.887	5.5	
Vinyl Acetate		0.451	0.461	0.556	0.457	0.430	0.471	10.4	
Bromodichloromethane		0.958	0.988	0.882	0.865	0.830	0.905	7.3	
1,2-Dichloropropane	*	0.708	0.731	0.633	0.629	0.603	0.661	8.4	*
cis-1,3-Dichloropropene		0.899	0.929	0.842	0.839	0.800	0.862	6.0	
Trichloroethene		0.891	0.932	0.713	0.824	0.780	0.828	10.5	
Dibromochloromethane		0.614	0.681	0.575	0.625	0.604	0.620	6.3	
1,1,2-Trichloroethane		0.386	0.406	0.343	0.350	0.346	0.366	7.7	
Benzene		1.878	2.016	1.677	1.750	1.689	1.802	8.0	
Trans-1,3-Dichloropropene		0.508	0.555	0.520	0.512	0.504	0.520	4.0	
2-Chloroethylvinylether		0.145	0.144	0.131	0.128	0.122	0.134	7.6	
Bromoform	#	0.365	0.410	0.366	0.391	0.389	0.384	4.9	#
4-Methyl-2-Pentanone		0.219	0.257	0.244	0.231	0.244	0.239	6.1	
2-Hexanone		0.392	0.437	0.392	0.374	0.388	0.397	6.0	
Tetrachloroethene		1.598	1.710	1.234	1.555	1.470	1.513	11.8	
1,1,2,2-Tetrachloroethane	#	0.694	0.793	0.673	0.729	0.717	0.721	6.3	#
Toluene	*	2.515	2.609	1.998	2.320	2.178	2.324	10.7	*
Chlorobenzene	#	2.759	3.024	2.320	2.730	2.644	2.695	9.4	#
Ethylbenzene	*	1.482	1.566	1.207	1.441	1.356	1.410	9.7	*
Styrene		2.418	2.711	2.121	2.514	2.398	2.432	8.8	
M-Xylene		1.823	2.029	1.603	1.788	1.765	1.802	8.5	
O-&/or P-Xylene		1.621	1.887	1.488	1.671	1.632	1.660	8.7	

6A

Toluene-d8	2.943	3.038	2.753	3.024	2.979	2.947	3.9
Benzene-d6	1.825	1.923	1.802	1.845	1.838	1.847	2.5
1,2-Dichloroethane-d4	1.433	1.383	1.630	1.397	1.465	1.462	6.8

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Instrument ID: INCOS1 Calibration date: 07/17/90 Time: 1542

Lab File ID: CC0717A Init. Calib. Date(s): 07/02/90 07/02/90

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF15 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF15	%D	
Chloromethane	#	1.928	1.511	21.6	#
Bromomethane		2.189	1.841	15.9	
Vinyl Chloride	*	2.273	1.741	23.4	*
Chloroethane		1.501	1.197	20.3	
Methylene Chloride		1.799	1.510	16.1	
Acetone		0.123	0.099	19.5	
Acrolein		0.069	0.049	29.0	
Carbon Disulfide		5.753	4.701	18.3	
Acrylonitrile		0.145	0.116	20.0	
1,1-Dichloroethene	*	1.978	1.711	13.5	*
1,1-Dichloroethane	#	3.600	3.213	10.8	#
1,2-Dichloroethene (total)		2.044	1.812	11.4	
Chloroform	*	3.915	3.428	12.4	*
1,2-Dichloroethane		1.708	1.481	13.3	
2-Butanone		0.017	0.013	23.5	
1,1,1-Trichloroethane		1.016	0.895	11.9	
Carbon Tetrachloride		0.887	0.803	9.5	
Vinyl Acetate		0.471	0.327	30.6	
Bromodichloromethane		0.905	0.794	12.3	
1,2-Dichloropropane	*	0.661	0.568	14.1	*
cis-1,3-Dichloropropene		0.862	0.749	13.1	
Trichloroethene		0.828	0.755	8.8	
Dibromochloromethane		0.620	0.612	1.3	
1,1,2-Trichloroethane		0.366	0.333	9.0	
Benzene		1.802	1.578	12.4	
Trans-1,3-Dichloropropene		0.520	0.459	11.7	
2-Chloroethylvinylether		0.134	0.113	15.7	
Bromoform	#	0.384	0.382	0.5	#
4-Methyl-2-Pentanone		0.239	0.197	17.6	
2-Hexanone		0.397	0.323	18.6	
Tetrachloroethene		1.513	1.481	2.1	
1,1,2,2-Tetrachloroethane	#	0.721	0.644	10.7	#
Toluene	*	2.324	2.110	9.2	*
Chlorobenzene	#	2.695	2.636	2.2	#
Ethylbenzene	*	1.410	1.363	3.3	*
Styrene		2.432	2.207	9.3	
M-Xylene		1.802	1.666	7.5	
O-&/or P-Xylene		1.660	1.588	4.3	
Toluene-d8		2.947	2.983	-1.2	

Benzene-d6	1.847	1.662	10.0
1,2-Dichloroethane-d4	1.462	1.351	7.6

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Lab File ID (Standard): CC0717A Date Analyzed: 07/17/90

Instrument ID: INCOS1 Time Analyzed: 1542

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2(BCP) AREA #	RT	IS3(DCB) AREA #	RT
	12 HOUR STD	39600	9.87	144000	19.04	77600	23.04
	UPPER LIMIT	79200		288000		155200	
	LOWER LIMIT	19800		72000		38800	
	EPA SAMPLE NO.						
01	90FT02R95	47800	9.87	146000	19.04	73000	23.07
02	90FT20D54	59000	9.87	176000	19.07	90900	23.07
03	90FT20S53	53400	9.87	158000	19.04	83300	23.04
04	90FT20S54	61100	9.87	177000	19.07	90100	23.07
05	90FT20S53MS	63400	9.87	181000	19.04	93500	23.07
06	90FT20S53MSD	63200	9.87	188000	19.07	95200	23.07
07	0717BLK1	47600	9.87	147000	19.07	76500	23.04

IS1 BCM Bromochloromethane
IS2 BCP 2-Bromo-1-Chloropropane
IS3 DCB 1,4Dichlorobutane

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

Column used to flag internal standard area values with an asterisk

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT20S53MS

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 90FT20S53MS

Sample wt/vol: 20.0 (g/mL) ML Lab File ID: 7262S53S

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec. 100 Date Analyzed: 07/17/90

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	0.8	J
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	0.5	J
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	4	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

FOR QC USE ONLY

90FT 20 S53 MS

108-38-3--------M-Xylene	2	U
95-47-6---------O-&/or P-Xylene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FT20S53MSD

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 7262 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 90FT20S53MSD

Sample wt/vol: 20.0 (g/mL) ML Lab File ID: 7262S53D

Level: (low/med) LOW Date Received: 07/12/90

% Moisture: not dec. 100 Date Analyzed: 07/17/90

Column: (pack/cap) PACK Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	0.8	J
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	0.5	J
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	4	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

FOR QC USE ONLY

90F722 MSD

108-38-3--------M-Xylene	2	U
95-47-6---------O-&/or P-Xylene	2	U

```
ASK     DESC:VO   NUMBER OF ENTRIES:  8 CURRENT INDEX:  8                                                    18 JLY 90
ENTRY NO.:  1                   FILE NAME:   0717BLK1  **
SAMPLE: CLP,7262,,0717BLK1,L,W,,V,BLK,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
FORMULA:                        ANALYST : TCJ            WEIGHT:   1.000
SUBMITTED BY: CRL               ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  2
ENTRY NO.:  2                   FILE NAME:   7262R95  **
SAMPLE: CLP,7262,,90FT02R95,L,W,,V,BLK,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
FORMULA:                        ANALYST : TCJ            WEIGHT:   1.000
SUBMITTED BY: CRL               ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  3
ENTRY NO.:  3                   FILE NAME:   7262S53  **
SAMPLE: CLP,7262,,90FT20S53,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
FORMULA:                        ANALYST : TCJ            WEIGHT:   1.000
SUBMITTED BY: CRL               ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  4
ENTRY NO.:  4                   FILE NAME:   7262S54  **
SAMPLE: CLP,7262,,90FT20S54,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
FORMULA:                        ANALYST : TCJ            WEIGHT:   1.000
SUBMITTED BY: CRL               ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  5
ENTRY NO.:  5                   FILE NAME:   7262D54  **
SAMPLE: CLP,7262,,90FT20D54,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
FORMULA:                        ANALYST : TCJ            WEIGHT:   1.000
SUBMITTED BY: CRL               ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  6
ENTRY NO.:  6                   FILE NAME:   7262S53M  **
SAMPLE: CLP,7262,,90FT20S53MS,L,W,,V,MS,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
FORMULA:                        ANALYST : TCJ            WEIGHT:   1.000
SUBMITTED BY: CRL               ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  7


MORE TO COME, TYPE <CR> TO CONTINUE...
```

ASK DESC:VO NUMBER OF ENTRIES: 8 CURRENT INDEX: 8 18 JLY 90

ENTRY NO.: 7 FILE NAME: 7262S53S **
SAMPLE: CLP,7262,,90FT20S53MS,L,W,,V,MS,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
FORMULA: ANALYST : TCJ WEIGHT: 1.000
SUBMITTED BY: CRL ACCT. NO: TFA302 PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 8

ENTRY NO.: 8 FILE NAME: 7262S53D **
SAMPLE: CLP,7262,,90FT20S53MSD,L,W,,V,MSD,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
FORMULA: ANALYST : TCJ WEIGHT: 1.000
SUBMITTED BY: CRL ACCT. NO: TFA302 PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 9

BROMOFLUOROBENZENE

Tuning Report
07/17/90 15:12:00 + 12:02
Instrument: INCOS1
#361 - #385
Case Number:

Data: 0717BFB1 # 361
Cali: FC0620 # 1
Analyst: TCJ
Laboratory:

Base m/z: 95
RIC: 18688.
Acct. No.: TFA302
Contract:

m/z	Intensity	% RA	Ion Abundance Criteria Min %	Max %	Mass	Actual	Status
50	660.	17.3	15.0	40.0	95	17.3	PASS
75	1648.	43.2	30.0	60.0	95	43.2	PASS
95	3812.	100.0	100.0	---	---	100.0	PASS
96	247.	6.5	5.0	9.0	95	6.5	PASS
173	35.	0.9	---	2.0	174	1.0	PASS
174	3492.	91.6	50.0	---	95	91.6	PASS
175	295.	7.7	5.0	9.0	174	8.4	PASS
176	3468.	91.0	95.0	101.0	174	99.3	PASS
177	262.	6.9	5.0	9.0	176	7.6	PASS

Mass List Data: 0717BFB1 # 361 Base m/z: 95
07/17/90 15:12:00 + 12:02 Cali: FC0620 # 1 RIC: 18688.
Sample: CLP,7262,,CC0717,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@8'/MIN
#361 - #385

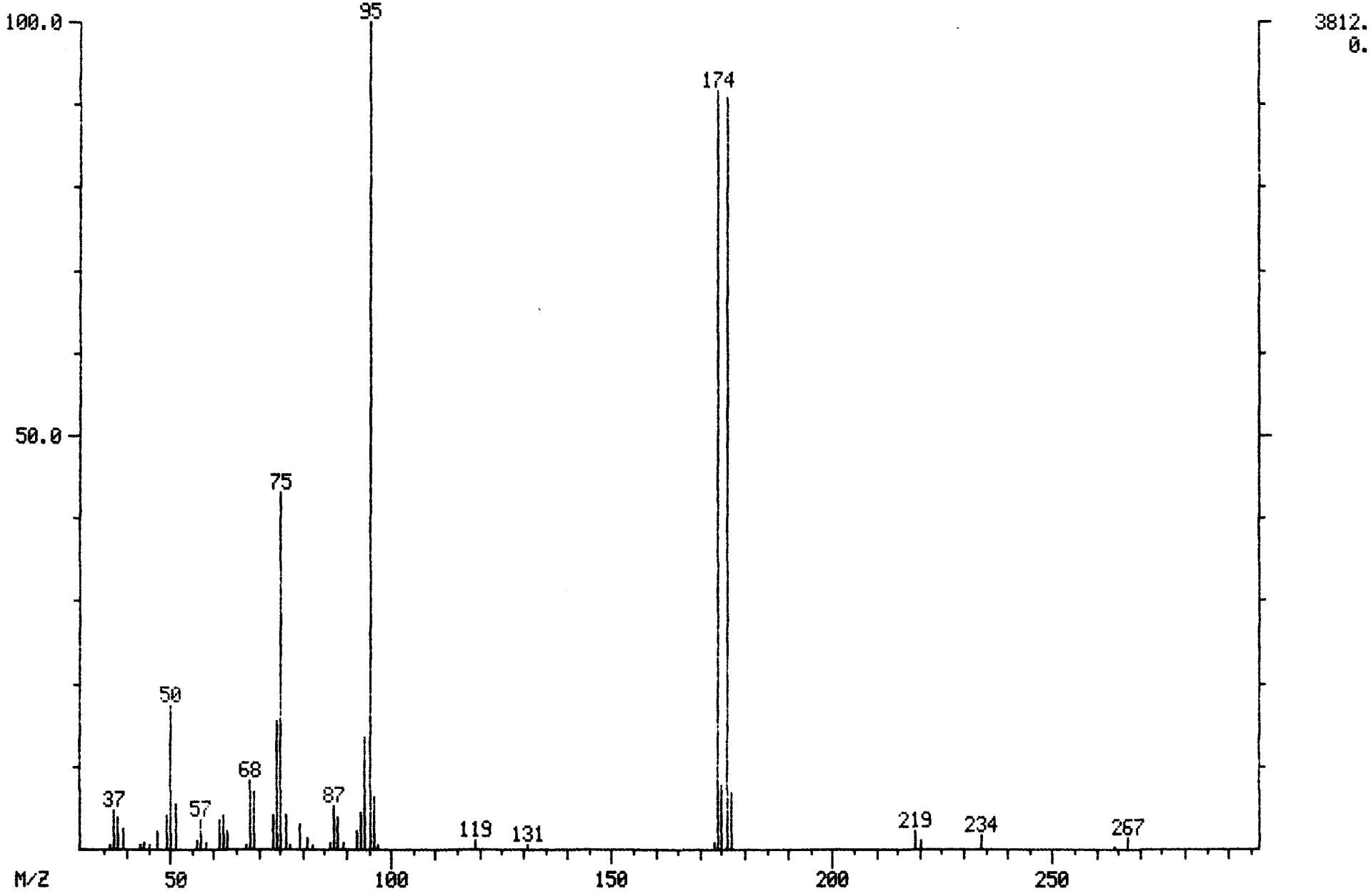
36 0.00 0. Minima Min Inten: 0.
267 Maxima # 0

Mass		% RA	Inten.
36?		0.42	16.
37?		4.67	178.
38?		3.99	152.
39?		2.39	91.
43?	S	0.45	17.
44?	S	0.81	31.
45?	S	0.66	25.
47?		2.23	85.
49?		4.22	161.
50?	S	17.31	660.
51?		5.40	206.
56?	S	1.08	41.
57?	S	3.62	138.
58?	S	0.71	27.
61?		3.70	141.
62?		4.17	159.
63?		2.28	87.
67?		0.42	16.
68?		8.18	312.
69	S	6.93	264.
73	S	4.17	159.
74		15.35	585.
75		43.23	1648.
76		4.09	156.
77		0.45	17.
79		2.96	113.
81	S	1.50	57.
82		0.42	16.
86	S	0.94	36.
87		5.27	201.
88	S	3.96	151.
89		0.92	35.
92		2.10	80.
93		4.43	169.
94		13.46	513.
95	S	100.00	3812.
96	S	6.48	247.
97	S	0.47	18.
119	S	1.18	45.
131	S	0.63	24.
173		0.92	35.
174		91.61	3492.
175		7.74	295.
176		90.98	3468.
177		6.87	262.
219	S	2.23	85.
220		1.00	38.
234		1.57	60.
264		0.39	15.
267		1.31	50.

MASS SPECTRUM
07/17/90 15:12:00 + 12:02
SAMPLE: CLP,7262,,CC0717,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
TEMP: 219 DEG. C
#361 - #385

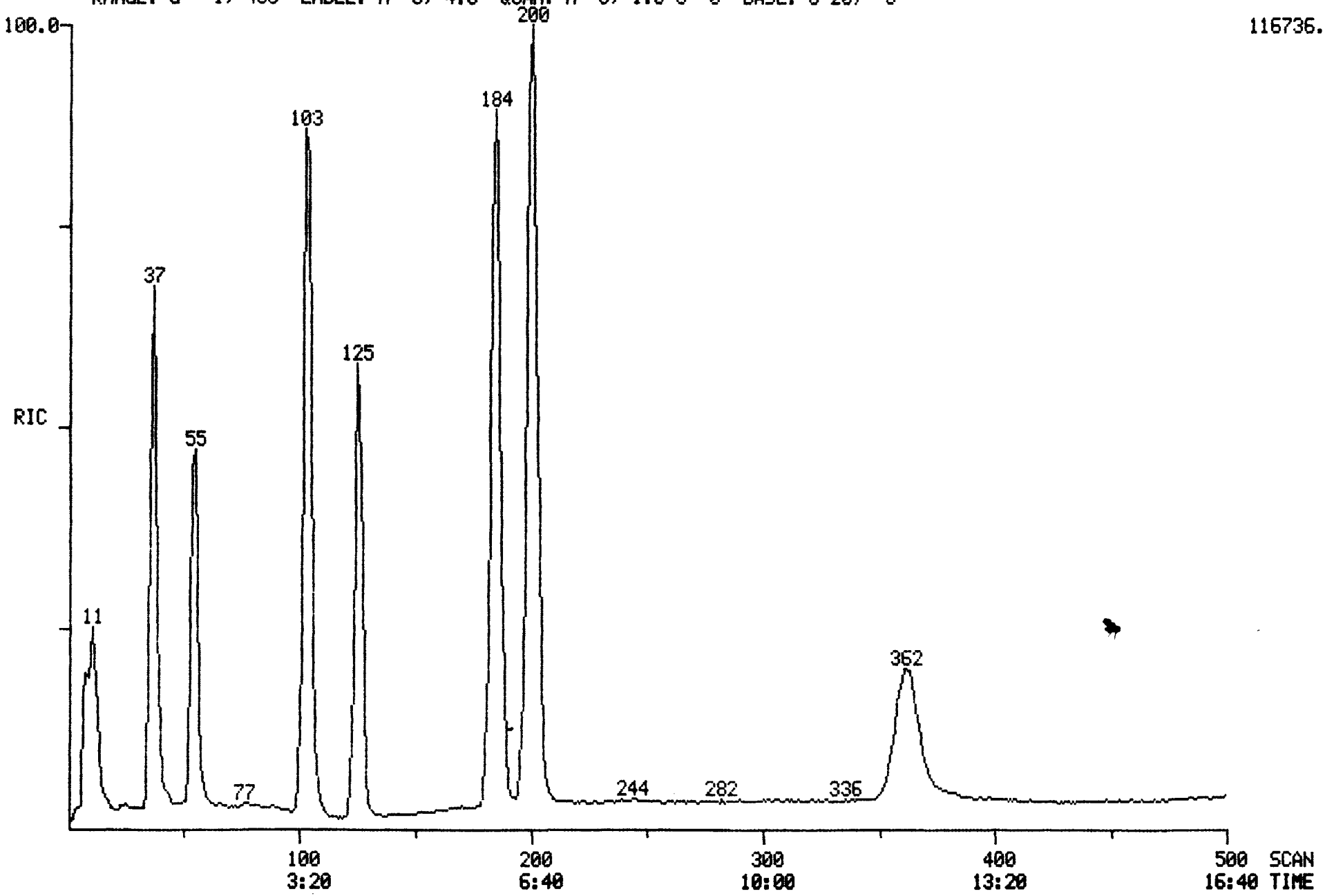
DATA: 0717BFB1 #361
CALI: FC0620 #1

BASE M/Z: 95
RIC: 18688.



RIC
07/17/90 15:12:00
SAMPLE: CLP,7262,,CC0717,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
RANGE: G 1, 403 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 0717BFB1 #361 SCANS 1 TO 500
CALI: FC0620 #1



Quantitation Report File: IC10702

Data: IC10702.TI
07/02/90 16:21:00
Sample: CLP,0702,,IC10702,L,W,,V,IC-020,
Conds.: 45'(3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

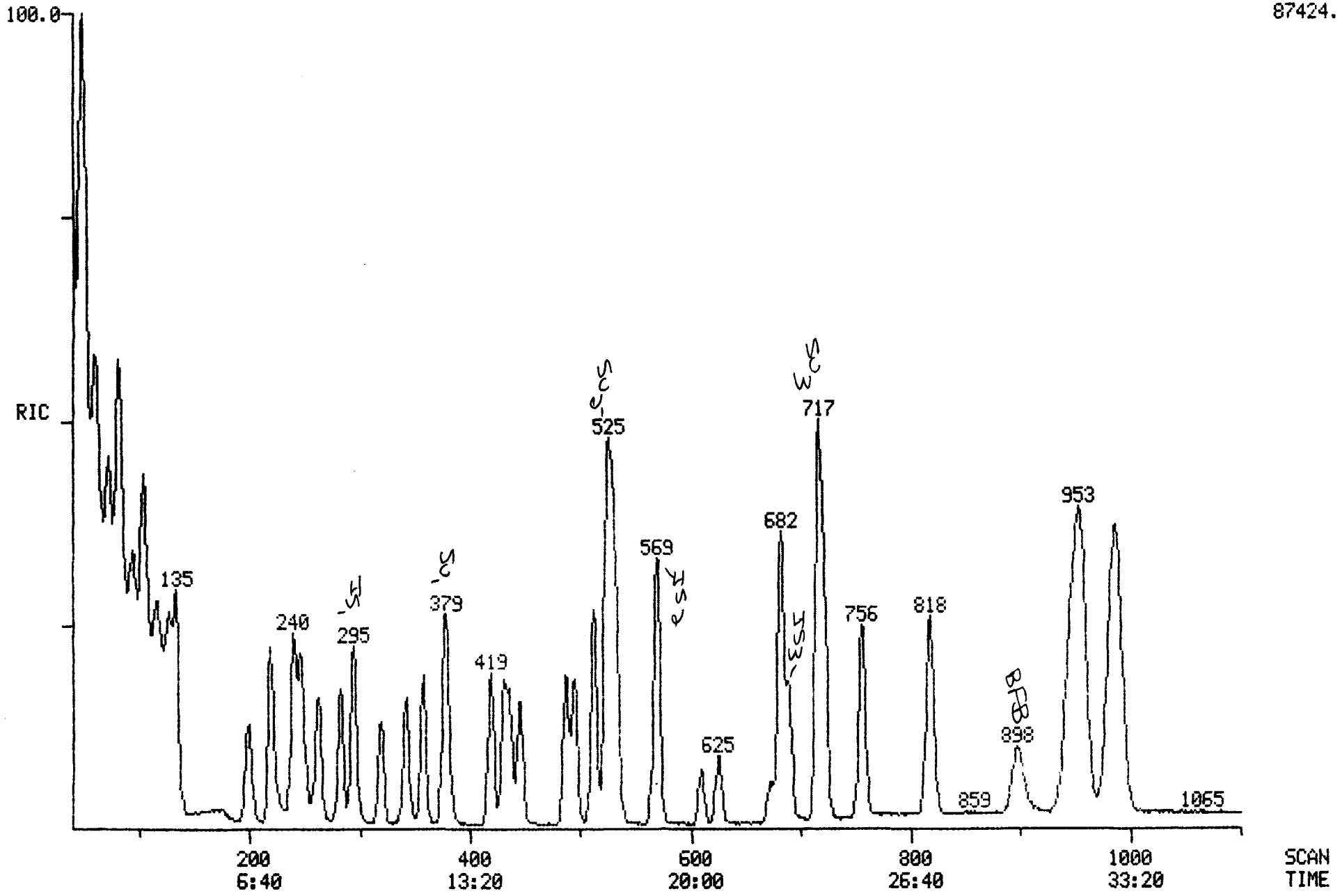
No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	295	9:50	1	1.000	A BB	16549.	10.000	UG/L	0.74
2	77	570	19:00	2	1.000	A BB	57226.	10.000	UG/L	0.74
3	55	690	23:00	3	1.000	A BB	30868.	10.000	UG/L	0.74
4	65	377	12:34	1	1.278	A BB	23719.	11.428	UG/L	0.85
5	84	524	17:28	2	0.919	A BB	104416.	10.381	UG/L	0.77
6	98	717	23:54	3	1.039	A BB	90848.	9.971	UG/L	0.74
7	50	50	1:40	1	0.169	A BB	33329.	12.285	UG/L	0.91
8	94	81	2:42	1	0.275	A BB	37842.	7.996	UG/L	0.59
9	62	105	3:30	1	0.356	A BB	39833.	11.981	UG/L	0.89
10	64	135	4:30	1	0.458	A BB	26228.	12.097	UG/L	0.90
11	84	200	6:40	1	0.678	A BB	16454.	6.282	UG/L	0.46
12	43	219	7:18	1	0.742	A BB	46380.	338.873	UG/L	25.07
13	56	220	7:20	1	0.746	A BB	24801.	293.113	UG/L	21.69
14	76	247	8:14	1	0.837	A BB	73707.	9.566	UG/L	0.71
15	53	240	8:00	1	0.814	A BB	53065.	326.293	UG/L	24.14
16	96	283	9:26	1	0.959	A BB	17593.	5.344	UG/L	0.40
17	63	320	10:40	1	1.085	A BB	31041.	5.544	UG/L	0.41
18	96	343	11:26	1	1.163	A BB	17863	5.378	UG/L	0.40
19	83	358	11:56	1	1.214	A BB	34764.	5.299	UG/L	0.39
20	62	380	12:40	1	1.288	A BB	15539	5.885	UG/L	0.44
21	72	378	12:36	2	0.663	A BB	7589	77.719	UG/L	5.75
22	97	419	13:58	2	0.735	A BB	31300.	4.777	UG/L	0.35
23	117	431	14:22	2	0.756	A VB	25750.	3.932	UG/L	0.29
24	43	436	14:32	2	0.765	A BB	58103.	24.955	UG/L	1.85
25	83	446	14:52	2	0.782	A BB	27415.	4.507	UG/L	0.33
26	63	487	16:14	2	0.854	A BB	20270	5.073	UG/L	0.38
27	75	494	16:28	2	0.867	A BB	30884	5.619	UG/L	0.42
28	136	512	17:04	2	0.898	A BB	25500.	4.521	UG/L	0.33
29	129	529	17:38	2	0.928	A BB	17570.	3.513	UG/L	0.26
30	97	532	17:44	2	0.933	A BB	11054.	4.383	UG/L	0.32
31	78	528	17:36	2	0.926	A BB	53722.	5.019	UG/L	0.37
32	75	533	17:46	2	0.935	A BB	11620.	3.536	UG/L	0.26
33	63	566	18:52	2	0.993	A BB	4156.	4.995	UG/L	0.37
34	173	610	20:20	2	1.070	A BB	10443.	3.010	UG/L	0.22
35	43	626	20:52	3	0.907	A BB	18153.	15.927	UG/L	1.18
36	43	673	22:26	3	0.975	A BB	10163.	15.292	UG/L	1.13
37	164	682	22:44	3	0.988	A BB	24666.	3.916	UG/L	0.29
38	83	679	22:38	3	0.984	A BB	10710.	3.475	UG/L	0.26
39	92	722	24:04	3	1.046	A BB	38818.	5.098	UG/L	0.38
40	112	756	25:12	3	1.096	A BB	42586.	4.567	UG/L	0.34
41	106	818	27:16	3	1.186	A BB	22877.	4.975	UG/L	0.37
42	104	945	31:30	3	1.370	A BB	55987.	11.508	UG/L	0.85
43	106	955	31:50	3	1.384	A BB	56277.	10.363	UG/L	0.77
44	106	987	32:54	3	1.430	A BB	62558.	13.112	UG/L	0.97

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.00	1.287	0.99	11.43	10.00	1.433	1.254	1.14
5	17:26	1.00	0.919	1.00	10.38	10.00	1.825	1.758	1.04
6	23:54	1.00	1.038	1.00	9.97	10.00	2.943	2.952	1.00
7	1:38	1.02	0.167	1.01	12.29	10.00	2.014	1.639	1.23
8	2:40	1.01	0.273	1.01	8.00	10.00	2.287	2.860	0.80
9	3:26	1.02	0.352	1.01	11.98	10.00	2.407	2.009	1.20
10	4:28	1.01	0.457	1.00	12.10	10.00	1.585	1.310	1.21

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:34	1.02	0.672	1.01	6.28	5.00	1.989	1.583	1.26
12	7:16	1.00	0.744	1.00	338.87	225.00	0.125	0.083	1.51
13	7:18	1.00	0.747	1.00	293.11	225.00	0.067	0.051	1.30
14	8:10	1.01	0.836	1.00	9.57	7.50	5.938	4.656	1.28
15	7:56	1.01	0.812	1.00	326.29	225.00	0.143	0.098	1.45
16	9:24	1.00	0.962	1.00	5.34	5.00	2.126	1.989	1.07
17	10:36	1.01	1.085	1.00	5.54	5.00	3.751	3.383	1.11
18	11:22	1.01	1.164	1.00	5.38	5.00	2.159	2.007	1.08
19	11:54	1.00	1.218	1.00	5.30	5.00	4.201	3.964	1.06
20	12:38	1.00	1.294	1.00	5.89	5.00	1.878	1.595	1.18
21	12:36	1.00	0.664	1.00	77.72	75.00	0.018	0.017	1.04
22	13:56	1.00	0.735	1.00	4.78	5.00	1.094	1.145	0.96
23	14:20	1.00	0.756	1.00	3.93	5.00	0.900	1.144	0.79
24	14:32	1.00	0.766	1.00	24.96	22.50	0.451	0.407	1.11
25	14:50	1.00	0.782	1.00	4.51	5.00	0.958	1.063	0.90
26	16:12	1.00	0.854	1.00	5.07	5.00	0.708	0.698	1.01
27	16:28	1.00	0.868	1.00	5.62	6.00	0.899	0.960	0.94
28	17:02	1.00	0.898	1.00	4.52	5.00	0.891	0.986	0.90
29	17:38	1.00	0.930	1.00	3.51	5.00	0.614	0.874	0.70
30	17:44	1.00	0.935	1.00	4.38	5.00	0.386	0.441	0.88
31	17:36	1.00	0.928	1.00	5.02	5.00	1.878	1.870	1.00
32	17:46	1.00	0.937	1.00	3.54	4.00	0.508	0.574	0.88
33	18:52	1.00	0.995	1.00	4.99	5.00	0.145	0.145	1.00
34	20:20	1.00	1.072	1.00	3.01	5.00	0.365	0.606	0.60
35	20:50	1.00	0.904	1.00	15.93	15.00	0.392	0.369	1.06
36	22:26	1.00	0.974	1.00	15.29	15.00	0.219	0.215	1.02
37	22:46	1.00	0.988	1.00	3.92	5.00	1.598	2.041	0.78
38	22:40	1.00	0.984	1.00	3.47	5.00	0.694	0.999	0.69
39	24:06	1.00	1.046	1.00	5.10	5.00	2.515	2.467	1.02
40	25:16	1.00	1.097	1.00	4.57	5.00	2.759	3.021	0.91
41	27:22	1.00	1.188	1.00	4.97	5.00	1.482	1.490	0.99
42	31:48	0.99	1.381	0.99	11.51	7.50	2.418	1.576	1.53
43	33:14	0.96	1.443	0.96	10.36	10.00	1.823	1.759	1.04
44	33:14	0.99	1.443	0.99	13.11	12.50	1.621	1.546	1.05

RIC DATA: IC10702 #1 SCANS 40 TO 1100
07/02/90 16:21:00 CALI: IC10702 #3
SAMPLE: CLP,0702,,IC10702,L,W,,V,IC-020,
CONDS.: 45'(3 MIN) TO 220' @ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: IC20702

Data: IC20702.TI
07/02/90 17:05:00
Sample: CLP,0702,,IC20702,L,W,,V,IC-050,
Conds.: 45'(3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

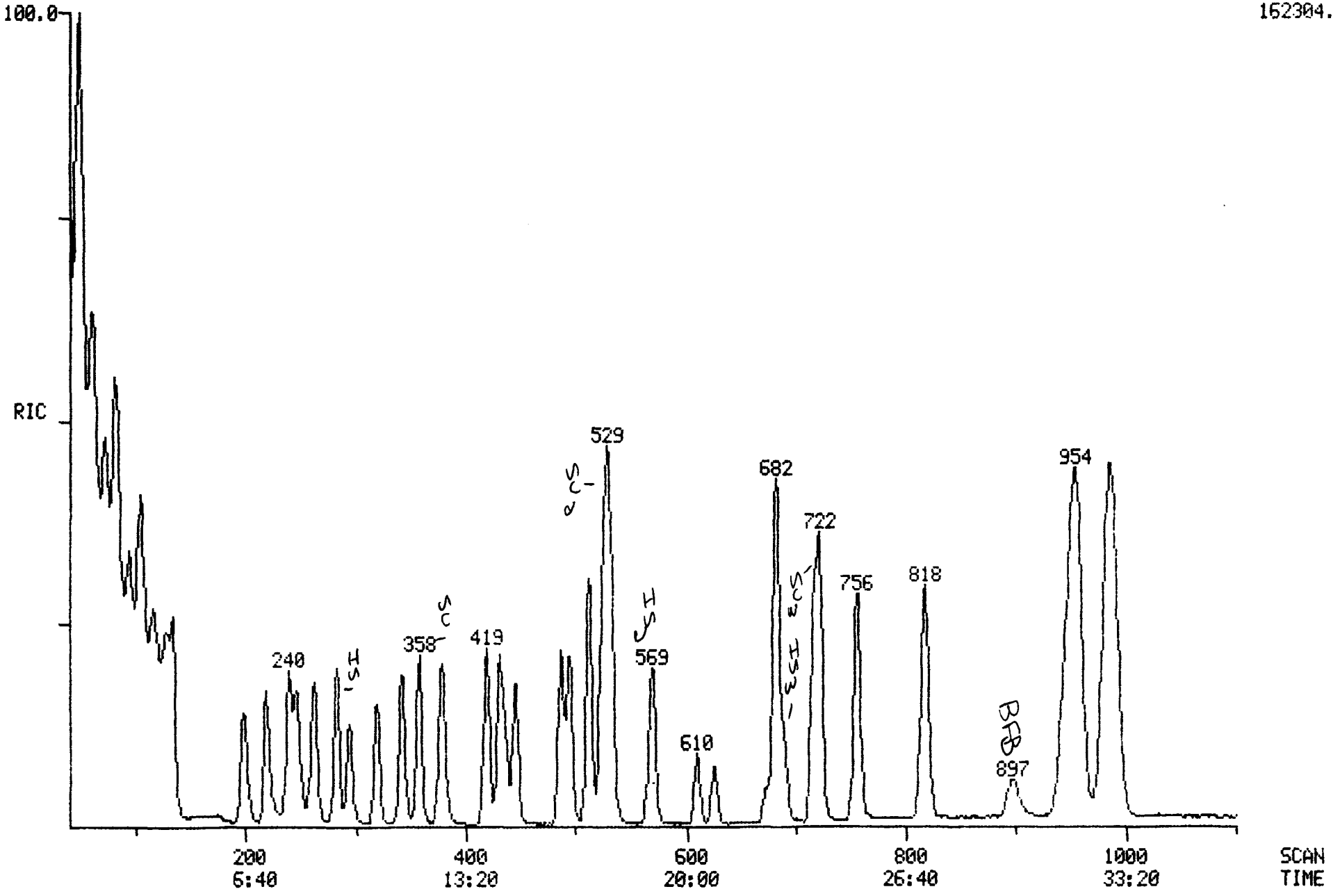
No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	295	9:50	1	1.000	A BB	17205.	10.000	UG/L	0.52
2	77	569	18:58	2	1.000	A BB	58376.	10.000	UG/L	0.52
3	55	689	22:58	3	1.000	A BB	31688.	10.000	UG/L	0.52
4	65	377	12:34	1	1.278	A BB	23794.	11.028	UG/L	0.57
5	84	524	17:28	2	0.921	A VB	112257.	10.941	UG/L	0.56
6	98	717	23:54	3	1.041	A BB	96256.	10.291	UG/L	0.53
7	50	50	1:40	1	0.169	A BB	54951.	19.484	UG/L	1.01
8	94	81	2:42	1	0.275	A BB	62706.	12.745	UG/L	0.66
9	62	104	3:28	1	0.353	A BB	65069.	18.825	UG/L	0.97
10	64	135	4:30	1	0.458	A BB	43728.	19.401	UG/L	1.00
11	84	199	6:38	1	0.675	A BB	33713.	12.379	UG/L	0.64
12	43	219	7:18	1	0.742	A BB	66879.	470.023	UG/L	24.26
13	56	219	7:18	1	0.742	A BB	32001.	363.789	UG/L	18.78
14	76	247	8:14	1	0.837	A BB	109507.	13.670	UG/L	0.71
15	53	240	8:00	1	0.814	A BB	79400.	469.617	UG/L	24.24
16	96	283	9:26	1	0.959	A BB	37754.	11.031	UG/L	0.57
17	63	320	10:40	1	1.085	A BB	68353.	11.743	UG/L	0.61
18	96	342	11:24	1	1.159	A BB	39492.	11.437	UG/L	0.59
19	83	358	11:56	1	1.214	A BB	73507.	10.778	UG/L	0.56
20	62	380	12:40	1	1.288	A BB	30518.	11.118	UG/L	0.57
21	72	379	12:38	2	0.666	A BB	10780.	108.224	UG/L	5.59
22	97	419	13:58	2	0.736	A BB	64830.	9.700	UG/L	0.50
23	117	431	14:22	2	0.757	A VB	56169.	8.409	UG/L	0.43
24	43	436	14:32	2	0.766	A BB	80734.	33.992	UG/L	1.75
25	83	446	14:52	2	0.784	A BB	57678.	9.296	UG/L	0.48
26	63	487	16:14	2	0.856	A BB	42700.	10.477	UG/L	0.54
27	75	494	16:28	2	0.868	A BB	65067.	11.605	UG/L	0.60
28	130	512	17:04	2	0.900	A BB	54394.	9.453	UG/L	0.49
29	129	529	17:38	2	0.930	A BB	39730.	7.787	UG/L	0.40
30	97	533	17:46	2	0.937	A BB	23681.	9.204	UG/L	0.48
31	78	528	17:36	2	0.928	A BB	117706.	10.781	UG/L	0.56
32	75	534	17:48	2	0.938	A BB	25913.	7.730	UG/L	0.40
33	63	566	18:52	2	0.995	A BB	8407.	9.905	UG/L	0.51
34	173	610	20:20	2	1.072	A BB	23906.	6.754	UG/L	0.35
35	43	626	20:52	3	0.909	A BB	27671.	23.649	UG/L	1.22
36	43	672	22:24	3	0.975	A BB	16301.	23.893	UG/L	1.23
37	164	683	22:46	3	0.991	A BB	54172.	8.377	UG/L	0.43
38	83	679	22:38	3	0.985	A BB	25117.	7.938	UG/L	0.41
39	92	722	24:04	3	1.048	A BB	82686.	10.578	UG/L	0.55
40	112	756	25:12	3	1.097	A BB	95813.	10.008	UG/L	0.52
41	106	818	27:16	3	1.187	A BB	49614.	10.510	UG/L	0.54
42	104	945	31:30	3	1.372	A BB	85899.	17.199	UG/L	0.89
43	106	954	31:48	3	1.385	A BB	128594.	23.067	UG/L	1.19
44	106	986	32:52	3	1.431	A BB	150076.	30.643	UG/L	1.58

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.00	1.287	0.99	11.03	10.00	1.383	1.254	1.10
5	17:26	1.00	0.919	1.00	10.94	10.00	1.923	1.758	1.09
6	23:54	1.00	1.038	1.00	10.29	10.00	3.038	2.952	1.03
7	1:38	1.02	0.167	1.01	19.48	15.00	2.129	1.639	1.30
8	2:40	1.01	0.273	1.01	12.75	15.00	2.430	2.860	0.85
9	3:26	1.01	0.352	1.00	18.83	15.00	2.521	2.009	1.26
10	4:28	1.01	0.457	1.00	19.40	15.00	1.694	1.310	1.29

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:34	1.01	0.672	1.00	12.38	10.00	1.959	1.583	1.24
12	7:16	1.00	0.744	1.00	470.02	300.00	0.130	0.083	1.57
13	7:18	1.00	0.747	0.99	363.79	300.00	0.062	0.051	1.21
14	8:10	1.01	0.836	1.00	13.67	10.00	6.365	4.656	1.37
15	7:56	1.01	0.812	1.00	469.62	300.00	0.154	0.098	1.57
16	9:24	1.00	0.962	1.00	11.03	10.00	2.194	1.989	1.10
17	10:36	1.01	1.085	1.00	11.74	10.00	3.973	3.383	1.17
18	11:22	1.00	1.164	1.00	11.44	10.00	2.295	2.007	1.14
19	11:54	1.00	1.218	1.00	10.78	10.00	4.272	3.964	1.08
20	12:38	1.00	1.294	1.00	11.12	10.00	1.774	1.595	1.11
21	12:36	1.00	0.664	1.00	108.22	100.00	0.018	0.017	1.08
22	13:56	1.00	0.735	1.00	9.70	10.00	1.111	1.145	0.97
23	14:20	1.00	0.756	1.00	8.41	10.00	0.962	1.144	0.84
24	14:32	1.00	0.766	1.00	33.99	30.00	0.461	0.407	1.13
25	14:50	1.00	0.782	1.00	9.30	10.00	0.988	1.063	0.93
26	16:12	1.00	0.854	1.00	10.48	10.00	0.731	0.698	1.05
27	16:28	1.00	0.868	1.00	11.61	12.00	0.929	0.960	0.97
28	17:02	1.00	0.898	1.00	9.45	10.00	0.932	0.986	0.95
29	17:38	1.00	0.930	1.00	7.79	10.00	0.681	0.874	0.78
30	17:44	1.00	0.935	1.00	9.20	10.00	0.406	0.441	0.92
31	17:36	1.00	0.928	1.00	10.78	10.00	2.016	1.870	1.08
32	17:46	1.00	0.937	1.00	7.73	8.00	0.555	0.574	0.97
33	18:52	1.00	0.995	1.00	9.90	10.00	0.144	0.145	0.99
34	20:20	1.00	1.072	1.00	6.75	10.00	0.410	0.606	0.68
35	20:50	1.00	0.904	1.00	23.65	20.00	0.437	0.369	1.18
36	22:26	1.00	0.974	1.00	23.89	20.00	0.257	0.215	1.19
37	22:46	1.00	0.988	1.00	8.38	10.00	1.710	2.041	0.84
38	22:40	1.00	0.984	1.00	7.94	10.00	0.793	0.999	0.79
39	24:06	1.00	1.046	1.00	10.58	10.00	2.609	2.467	1.06
40	25:16	1.00	1.097	1.00	10.01	10.00	3.024	3.021	1.00
41	27:22	1.00	1.188	1.00	10.51	10.00	1.566	1.490	1.05
42	31:48	0.99	1.381	0.99	17.20	10.00	2.711	1.576	1.72
43	33:14	0.96	1.443	0.96	23.07	20.00	2.029	1.759	1.15
44	33:14	0.99	1.443	0.99	30.64	25.10	1.887	1.546	1.22

RIC DATA: IC20702 #1 SCANS 40 TO 1100
07/02/90 17:05:00 CALI: IC20702 #3
SAMPLE: CLP,0702,,IC20702,L,W,,V,IC-050,
CONDS.: 45'(3 MIN) TO 220' @ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: IC40702

Data: IC40702.TI
07/02/90 17:50:00
Sample: CLP,0702,,IC40702,L,W,,V,IC-150,
Conds.: 45'(3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

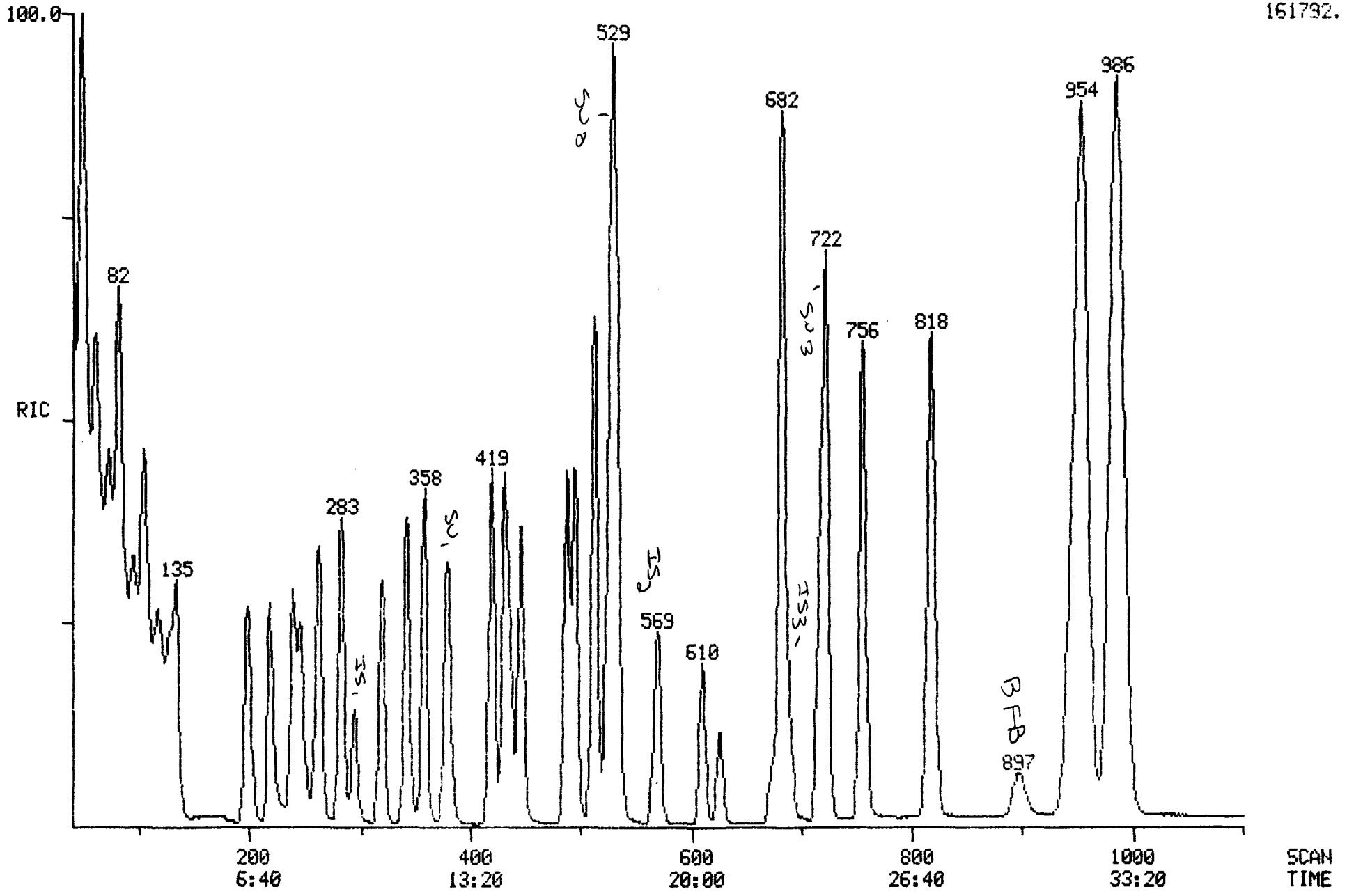
No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	295	9:50	1	1.000	A BB	19869.	10.000	UG/L	0.35
2	77	570	19:00	2	1.000	A BB	68821.	10.000	UG/L	0.35
3	55	689	22:58	3	1.000	A BB	37375.	10.000	UG/L	0.35
4	65	377	12:34	1	1.278	A BB	27762.	11.141	UG/L	0.40
5	84	524	17:28	2	0.919	A VB	126969.	10.497	UG/L	0.37
6	98	717	23:54	3	1.041	A BB	113014.	10.244	UG/L	0.36
7	50	50	1:40	1	0.169	A BB	91775.	28.176	UG/L	1.00
8	94	81	2:42	1	0.275	A BB	105734.	18.609	UG/L	0.66
9	62	104	3:28	1	0.353	A BB	108867.	27.273	UG/L	0.97
10	64	135	4:30	1	0.458	A BB	70922.	27.246	UG/L	0.97
11	84	199	6:38	1	0.675	A BB	66735.	21.219	UG/L	0.75
12	43	219	7:18	1	0.742	A BB	100879.	613.904	UG/L	21.79
13	56	219	7:18	1	0.742	A BB	62823.	618.402	UG/L	21.95
14	76	247	8:14	1	0.837	A BB	165438.	17.883	UG/L	0.63
15	53	239	7:58	1	0.810	A BB	121990.	624.764	UG/L	22.17
16	96	283	9:26	1	0.959	A BB	76107.	19.255	UG/L	0.68
17	63	320	10:40	1	1.085	A BB	137551.	20.462	UG/L	0.73
18	96	342	11:24	1	1.159	A BB	77562.	19.450	UG/L	0.69
19	83	358	11:56	1	1.214	A BB	147412.	18.716	UG/L	0.66
20	62	380	12:40	1	1.288	A BB	62552.	19.733	UG/L	0.70
21	72	378	12:36	2	0.663	A BB	16991.	144.685	UG/L	5.13
22	97	419	13:58	2	0.735	A BB	134609.	17.083	UG/L	0.61
23	117	431	14:22	2	0.756	A VB	122242.	15.522	UG/L	0.55
24	43	436	14:32	2	0.765	A BB	141678.	50.597	UG/L	1.80
25	83	445	14:50	2	0.781	A BB	119112.	16.283	UG/L	0.58
26	63	487	16:14	2	0.854	A BB	86559.	18.014	UG/L	0.64
27	75	494	16:28	2	0.867	A BB	138574.	20.965	UG/L	0.74
28	130	512	17:04	2	0.898	A BB	113404.	16.717	UG/L	0.59
29	129	529	17:38	2	0.928	A BB	86009.	14.299	UG/L	0.51
30	97	533	17:46	2	0.935	A BB	48243.	15.904	UG/L	0.56
31	78	528	17:36	2	0.926	A BB	240893.	18.714	UG/L	0.66
32	75	533	17:46	2	0.935	A BB	56353.	14.259	UG/L	0.51
33	63	566	18:52	2	0.993	A BB	17674.	17.662	UG/L	0.63
34	173	610	20:20	2	1.070	A BB	53825.	12.899	UG/L	0.46
35	43	626	20:52	3	0.909	A BB	41930.	30.384	UG/L	1.08
36	43	672	22:24	3	0.975	A BB	25865.	32.142	UG/L	1.14
37	164	682	22:44	3	0.990	A BB	116250.	15.241	UG/L	0.54
38	83	679	22:38	3	0.985	A BB	54522.	14.609	UG/L	0.52
39	92	722	24:04	3	1.048	A BB	173455.	18.814	UG/L	0.67
40	112	756	25:12	3	1.097	A BB	204091.	18.075	UG/L	0.64
41	106	818	27:16	3	1.187	A BB	107711.	19.345	UG/L	0.69
42	104	945	31:30	3	1.372	A BB	140926.	23.923	UG/L	0.85
43	106	955	31:50	3	1.386	A BB	267285.	40.650	UG/L	1.44
44	106	986	32:52	3	1.431	A BB	312811.	54.151	UG/L	1.92

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.00	1.287	0.99	11.14	10.00	1.397	1.254	1.11
5	17:26	1.00	0.919	1.00	10.50	10.00	1.845	1.758	1.05
6	23:54	1.00	1.038	1.00	10.24	10.00	3.024	2.952	1.02
7	1:38	1.02	0.167	1.01	28.18	25.00	1.848	1.639	1.13
8	2:40	1.01	0.273	1.01	18.61	25.00	2.129	2.860	0.74
9	3:26	1.01	0.352	1.00	27.27	25.00	2.192	2.009	1.09
10	4:28	1.01	0.457	1.00	27.25	25.00	1.428	1.310	1.09

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:34	1.01	0.672	1.00	21.22	20.00	1.679	1.583	1.06
12	7:16	1.00	0.744	1.00	613.91	450.00	0.113	0.083	1.36
13	7:18	1.00	0.747	0.99	618.40	450.00	0.070	0.051	1.37
14	8:10	1.01	0.836	1.00	17.88	15.00	5.551	4.656	1.19
15	7:56	1.00	0.812	1.00	624.76	450.00	0.136	0.098	1.39
16	9:24	1.00	0.962	1.00	19.26	20.00	1.915	1.989	0.96
17	10:36	1.01	1.085	1.00	20.46	20.00	3.461	3.383	1.02
18	11:22	1.00	1.164	1.00	19.45	20.00	1.952	2.007	0.97
19	11:54	1.00	1.218	1.00	18.72	20.00	3.710	3.964	0.94
20	12:38	1.00	1.294	1.00	19.73	20.00	1.574	1.595	0.99
21	12:36	1.00	0.664	1.00	144.69	150.00	0.016	0.017	0.96
22	13:56	1.00	0.735	1.00	17.08	20.00	0.978	1.145	0.85
23	14:20	1.00	0.756	1.00	15.52	20.00	0.888	1.144	0.78
24	14:32	1.00	0.766	1.00	50.60	45.00	0.457	0.407	1.12
25	14:50	1.00	0.782	1.00	16.28	20.00	0.865	1.063	0.81
26	16:12	1.00	0.854	1.00	18.01	20.00	0.629	0.698	0.90
27	16:28	1.00	0.868	1.00	20.96	24.00	0.839	0.960	0.87
28	17:02	1.00	0.898	1.00	16.72	20.00	0.824	0.986	0.84
29	17:38	1.00	0.930	1.00	14.30	20.00	0.625	0.874	0.71
30	17:44	1.00	0.935	1.00	15.90	20.00	0.350	0.441	0.80
31	17:36	1.00	0.928	1.00	18.71	20.00	1.750	1.870	0.94
32	17:46	1.00	0.937	1.00	14.26	16.00	0.512	0.574	0.89
33	18:52	1.00	0.995	1.00	17.66	20.00	0.128	0.145	0.88
34	20:20	1.00	1.072	1.00	12.90	20.00	0.391	0.606	0.64
35	20:50	1.00	0.904	1.00	30.38	30.00	0.374	0.369	1.01
36	22:26	1.00	0.974	1.00	32.14	30.00	0.231	0.215	1.07
37	22:46	1.00	0.988	1.00	15.24	20.00	1.555	2.041	0.76
38	22:40	1.00	0.984	1.00	14.61	20.00	0.729	0.999	0.73
39	24:06	1.00	1.046	1.00	18.81	20.00	2.320	2.467	0.94
40	25:16	1.00	1.097	1.00	18.07	20.00	2.730	3.021	0.90
41	27:22	1.00	1.188	1.00	19.35	20.00	1.441	1.490	0.97
42	31:48	0.99	1.381	0.99	23.92	15.00	2.514	1.576	1.59
43	33:14	0.96	1.443	0.96	40.65	40.00	1.788	1.759	1.02
44	33:14	0.99	1.443	0.99	54.15	50.10	1.671	1.546	1.08

RIC DATA: IC40702 #1 SCANS 40 TO 1100
07/02/90 17:50:00 CALI: IC40702 #3
SAMPLE: CLP,0702,,IC40702,L,W,,V,IC-150,
CONDS.: 45'(3 MIN) TO 220' @ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: IC50702

Data: IC50702.TI
07/02/90 18:34:00
Sample: CLP,0702,,IC50702,L,W,,V,IC-200,
Conds.: 45'(3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	295	9:50	1	1.000	A BB	19824.	10.000	UG/L	0.30
2	77	570	19:00	2	1.000	A BB	69383.	10.000	UG/L	0.30
3	55	690	23:00	3	1.000	A BB	37871.	10.000	UG/L	0.30
4	65	378	12:36	1	1.281	A BB	29039.	11.680	UG/L	0.35
5	84	524	17:28	2	0.919	A VB	127515.	10.456	UG/L	0.32
6	98	716	23:52	3	1.038	A BB	112812.	10.092	UG/L	0.31
7	50	50	1:40	1	0.169	A BB	105360.	32.421	UG/L	0.98
8	94	81	2:42	1	0.275	A BB	123007.	21.698	UG/L	0.66
9	62	104	3:28	1	0.353	A BB	123319.	30.964	UG/L	0.94
10	64	136	4:32	1	0.461	A BB	80045.	30.821	UG/L	0.93
11	84	199	6:38	1	0.675	A BB	81673.	26.028	UG/L	0.79
12	43	219	7:18	1	0.742	A BB	118657.	723.746	UG/L	21.92
13	56	219	7:18	1	0.742	A BB	71578.	706.193	UG/L	21.39
14	76	247	8:14	1	0.837	A BB	182719.	19.796	UG/L	0.60
15	53	239	7:58	1	0.810	A BB	144458.	741.531	UG/L	22.46
16	96	283	9:26	1	0.959	A BB	89956.	22.811	UG/L	0.69
17	63	320	10:40	1	1.085	A BB	161202.	24.035	UG/L	0.73
18	96	342	11:24	1	1.159	A BB	91781.	23.068	UG/L	0.70
19	83	358	11:56	1	1.214	A BB	173500.	22.079	UG/L	0.67
20	62	380	12:40	1	1.288	A BB	75481.	23.866	UG/L	0.72
21	72	379	12:38	2	0.665	A BB	20611.	174.090	UG/L	5.27
22	97	419	13:58	2	0.735	A BB	157384.	19.812	UG/L	0.60
23	117	431	14:22	2	0.756	A VB	145684.	18.349	UG/L	0.56
24	43	436	14:32	2	0.765	A BB	156802.	55.545	UG/L	1.68
25	83	445	14:50	2	0.781	A BB	143983.	19.523	UG/L	0.59
26	63	487	16:14	2	0.854	A BB	104515.	21.575	UG/L	0.65
27	75	495	16:30	2	0.868	A BB	166580.	24.998	UG/L	0.76
28	130	512	17:04	2	0.898	A BB	135380.	19.796	UG/L	0.60
29	129	529	17:38	2	0.928	A BB	104739.	17.272	UG/L	0.52
30	97	533	17:46	2	0.935	A BB	60102.	19.654	UG/L	0.60
31	78	528	17:36	2	0.926	A BB	292938.	22.574	UG/L	0.68
32	75	533	17:46	2	0.935	A BB	69897.	17.543	UG/L	0.53
33	63	566	18:52	2	0.993	A BB	21084.	20.900	UG/L	0.63
34	173	610	20:20	2	1.070	A BB	67391.	16.019	UG/L	0.49
35	43	626	20:52	3	0.907	A BB	51420.	36.772	UG/L	1.11
36	43	672	22:24	3	0.974	A BB	32393.	39.728	UG/L	1.20
37	164	682	22:44	3	0.988	A BB	139195.	18.010	UG/L	0.55
38	83	679	22:38	3	0.984	A BB	67917.	17.960	UG/L	0.54
39	92	722	24:04	3	1.046	A BB	206230.	22.076	UG/L	0.67
40	112	756	25:12	3	1.096	A BB	250325.	21.879	UG/L	0.66
41	106	818	27:16	3	1.186	A BB	128353.	22.750	UG/L	0.69
42	104	944	31:28	3	1.368	A BB	158953.	26.630	UG/L	0.81
43	106	955	31:50	3	1.384	A BB	334192.	50.160	UG/L	1.52
44	106	985	32:50	3	1.428	A BB	387635.	66.225	UG/L	2.01

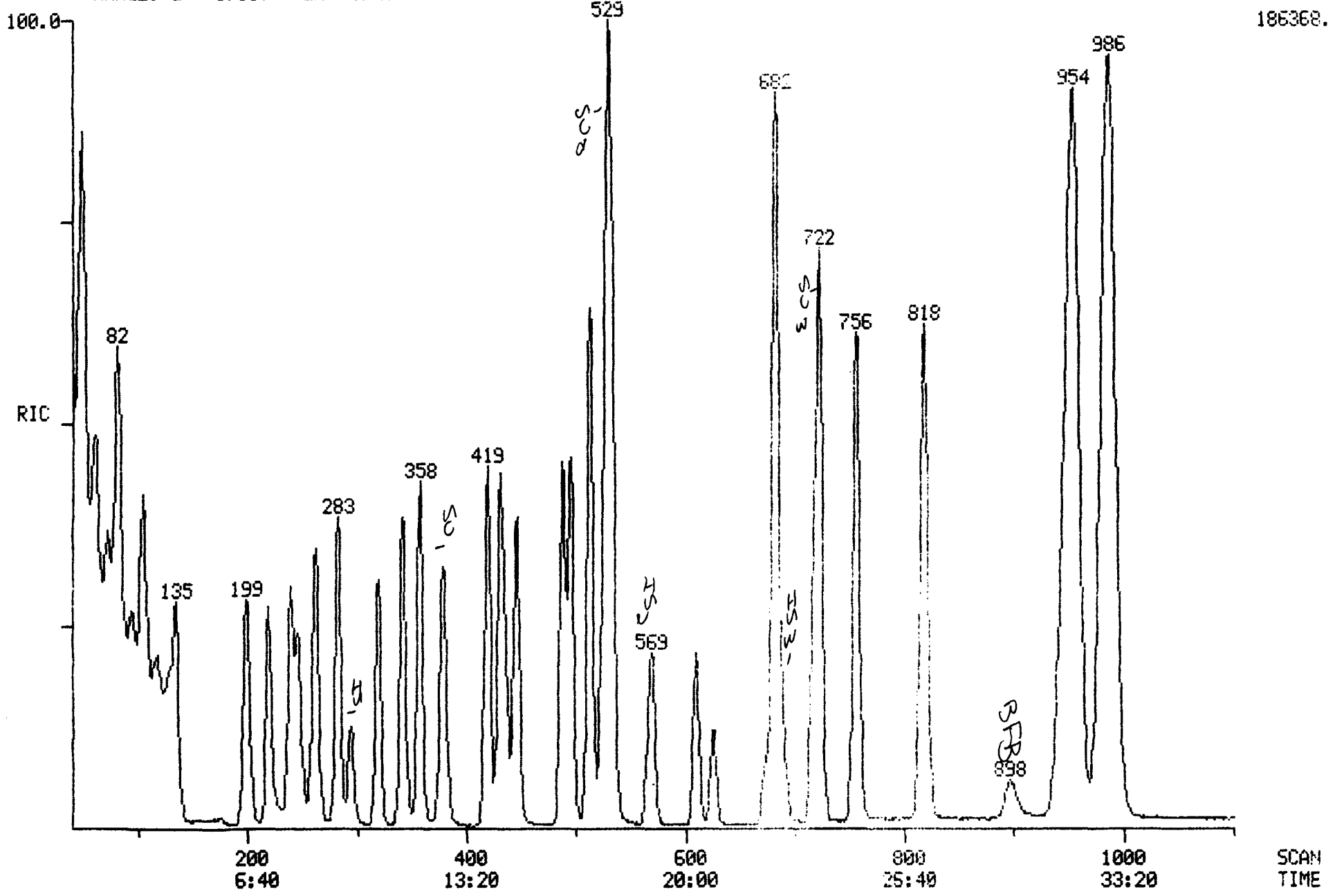
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.00	1.287	1.00	11.68	10.00	1.465	1.254	1.17
5	17:26	1.00	0.919	1.00	10.46	10.00	1.838	1.758	1.05
6	23:54	1.00	1.038	1.00	10.09	10.00	2.979	2.952	1.01
7	1:38	1.02	0.167	1.01	32.42	30.00	1.772	1.639	1.08
8	2:40	1.01	0.273	1.01	21.70	30.00	2.068	2.860	0.72
9	3:26	1.01	0.352	1.00	30.96	30.00	2.074	2.009	1.03
10	4:28	1.01	0.457	1.01	30.82	30.00	1.346	1.310	1.03

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:34	1.01	0.672	1.00	26.03	25.00	1.648	1.583	1.04
12	7:16	1.00	0.744	1.00	723.75	525.00	0.114	0.083	1.38
13	7:18	1.00	0.747	0.99	706.19	525.00	0.069	0.051	1.35
14	8:10	1.01	0.836	1.00	19.80	17.50	5.267	4.656	1.13
15	7:56	1.00	0.812	1.00	741.53	525.00	0.139	0.098	1.41
16	9:24	1.00	0.962	1.00	22.81	25.00	1.815	1.989	0.91
17	10:36	1.01	1.085	1.00	24.04	25.00	3.253	3.383	0.96
18	11:22	1.00	1.164	1.00	23.07	25.00	1.852	2.007	0.92
19	11:54	1.00	1.218	1.00	22.08	25.00	3.501	3.964	0.88
20	12:38	1.00	1.294	1.00	23.87	25.00	1.523	1.595	0.95
21	12:36	1.00	0.664	1.00	174.09	175.00	0.017	0.017	0.99
22	13:56	1.00	0.735	1.00	19.81	25.00	0.907	1.145	0.79
23	14:20	1.00	0.756	1.00	18.35	25.00	0.840	1.144	0.73
24	14:32	1.00	0.766	1.00	55.55	52.50	0.430	0.407	1.06
25	14:50	1.00	0.782	1.00	19.52	25.00	0.830	1.063	0.78
26	16:12	1.00	0.854	1.00	21.57	25.00	0.603	0.698	0.86
27	16:28	1.00	0.868	1.00	25.00	30.00	0.800	0.960	0.83
28	17:02	1.00	0.898	1.00	19.80	25.00	0.780	0.986	0.79
29	17:38	1.00	0.930	1.00	17.27	25.00	0.604	0.874	0.69
30	17:44	1.00	0.935	1.00	19.65	25.00	0.346	0.441	0.79
31	17:36	1.00	0.928	1.00	22.57	25.00	1.689	1.870	0.90
32	17:46	1.00	0.937	1.00	17.54	20.00	0.504	0.574	0.88
33	18:52	1.00	0.995	1.00	20.90	25.00	0.122	0.145	0.84
34	20:20	1.00	1.072	1.00	16.02	25.00	0.389	0.606	0.64
35	20:50	1.00	0.904	1.00	36.77	35.00	0.388	0.369	1.05
36	22:26	1.00	0.974	1.00	39.73	35.00	0.244	0.215	1.14
37	22:46	1.00	0.988	1.00	18.01	25.00	1.470	2.041	0.72
38	22:40	1.00	0.984	1.00	17.96	25.00	0.717	0.999	0.72
39	24:06	1.00	1.046	1.00	22.08	25.00	2.178	2.467	0.88
40	25:16	1.00	1.097	1.00	21.88	25.00	2.644	3.021	0.88
41	27:22	1.00	1.188	1.00	22.75	25.00	1.356	1.490	0.91
42	31:48	0.99	1.381	0.99	26.63	17.50	2.398	1.576	1.52
43	33:14	0.96	1.443	0.96	50.16	50.00	1.765	1.759	1.00
44	33:14	0.99	1.443	0.99	66.23	62.70	1.632	1.546	1.06

RIC
07/02/90 18:34:00
SAMPLE: CLP,0702,,IC50702,L,W,,V,IC-200,
CONDS.: 45'(3 MIN) TO 220' @ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: IC50702 #1
CALI: IC50702 #3

SCANS 40 TO 1100



Quantitation Report File: CC0702A

Data: CC0702A.TI
07/02/90 13:42:00
Sample: CLP,7255,,CC0702,L,W,,V,CAL,
Conds.: 45'(3 MIN) TO 220' @ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	294	9:48	1	1.000	A BB	16552.	10.000	UG/L	0.40
2	77	569	18:58	2	1.000	A BB	60837.	10.000	UG/L	0.40
3	55	689	22:58	3	1.000	A BB	35688.	10.000	UG/L	0.40
4	65	376	12:32	1	1.279	A BB	26982.	12.998	UG/L	0.52
5	84	523	17:26	2	0.919	A VB	109658.	10.255	UG/L	0.41
6	98	717	23:54	3	1.041	A BB	98249.	9.326	UG/L	0.37
7	50	50	1:40	1	0.170	A BB	62139.	22.901	UG/L	0.92
8	94	81	2:42	1	0.276	A BB	67261.	14.210	UG/L	0.57
9	62	104	3:28	1	0.354	A BB	71789.	21.589	UG/L	0.87
10	64	135	4:30	1	0.459	A BB	48040.	22.154	UG/L	0.89
11	84	199	6:38	1	0.677	A BB	42747.	16.316	UG/L	0.66
12	43	219	7:18	1	0.745	A BB	82493.	602.631	UG/L	24.20
13	56	219	7:18	1	0.745	A BB	46411.	548.414	UG/L	22.02
14	76	246	8:12	1	0.837	A BB	116786.	15.154	UG/L	0.61
15	53	239	7:58	1	0.813	A BB	94291.	579.697	UG/L	23.28
16	96	283	9:26	1	0.963	A BB	45671.	13.871	UG/L	0.56
17	63	319	10:38	1	1.085	A BB	88399.	15.786	UG/L	0.63
18	96	342	11:24	1	1.163	A BB	48750.	14.675	UG/L	0.59
19	83	358	11:56	1	1.218	A BB	96583.	14.720	UG/L	0.59
20	62	380	12:40	1	1.293	A BB	44405.	16.816	UG/L	0.68
21	72	378	12:36	2	0.664	A BB	12676	122.104	UG/L	4.90
22	97	418	13:56	2	0.735	A BB	90447.	12.985	UG/L	0.52
23	117	431	14:22	2	0.757	A VB	77328.	11.108	UG/L	0.45
24	43	436	14:32	2	0.766	A BB	126953.	51.289	UG/L	2.06
25	83	445	14:50	2	0.782	A BB	80472.	12.444	UG/L	0.50
26	63	487	16:14	2	0.856	A BB	57806.	13.609	UG/L	0.55
27	75	494	16:28	2	0.868	A BB	92204.	15.780	UG/L	0.63
28	130	512	17:04	2	0.900	A BB	65082.	10.853	UG/L	0.44
29	129	529	17:38	2	0.930	A BB	52517.	9.877	UG/L	0.40
30	97	532	17:44	2	0.935	A BB	31267.	11.661	UG/L	0.47
31	78	528	17:36	2	0.928	A BB	153061.	13.452	UG/L	0.54
32	75	533	17:46	2	0.937	A BB	37955.	10.864	UG/L	0.44
33	63	566	18:52	2	0.995	A BB	11985.	13.549	UG/L	0.54
34	173	609	20:18	2	1.070	A BB	33368.	9.046	UG/L	0.36
35	43	625	20:50	3	0.907	A BB	35005.	26.564	UG/L	1.07
36	43	672	22:24	3	0.975	A BB	21749.	28.305	UG/L	1.14
37	164	682	22:44	3	0.990	A BB	66068.	9.071	UG/L	0.36
38	83	679	22:38	3	0.985	A BB	36041.	10.113	UG/L	0.41
39	92	722	24:04	3	1.048	A BB	106973.	12.151	UG/L	0.49
40	112	756	25:12	3	1.097	A BB	124194.	11.519	UG/L	0.46
41	106	818	27:16	3	1.187	A BB	64611.	12.153	UG/L	0.49
42	104	945	31:30	3	1.372	A BB	94633.	16.823	UG/L	0.68
43	106	954	31:48	3	1.385	A BB	171679.	27.343	UG/L	1.10
44	106	985	32:50	3	1.430	A BB	199644.	36.194	UG/L	1.45

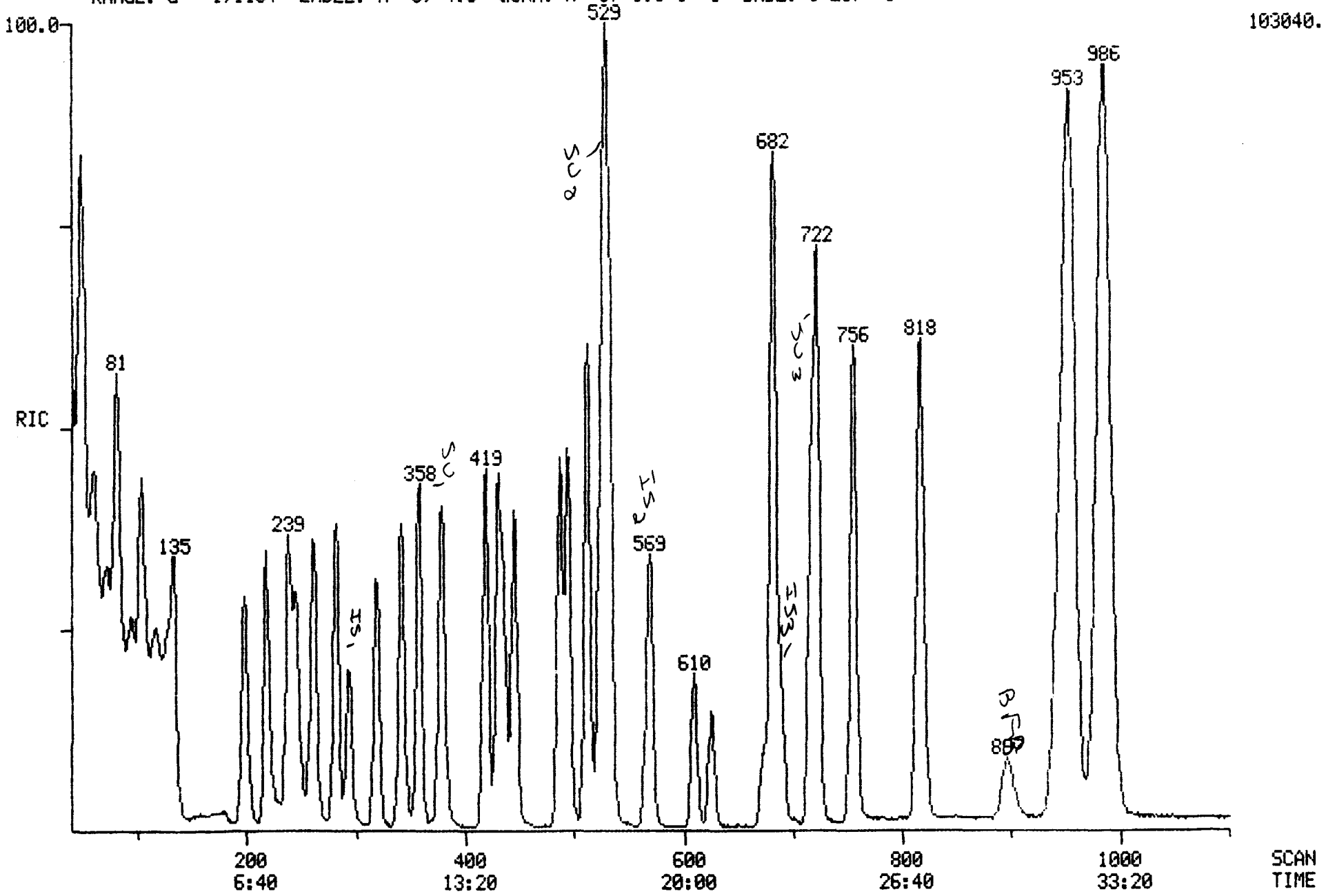
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.00	1.287	0.99	13.00	10.00	1.630	1.254	1.30
5	17:26	1.00	0.919	1.00	10.26	10.00	1.802	1.758	1.03
6	23:54	1.00	1.038	1.00	9.33	10.00	2.753	2.952	0.93
7	1:38	1.02	0.167	1.02	22.90	20.00	1.877	1.639	1.15
8	2:40	1.01	0.273	1.01	14.21	20.00	2.032	2.860	0.71
9	3:26	1.01	0.352	1.01	21.59	20.00	2.169	2.009	1.08
10	4:28	1.01	0.457	1.00	22.15	20.00	1.451	1.310	1.11

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:34	1.01	0.672	1.01	16.32	15.00	1.722	1.583	1.09
12	7:16	1.00	0.744	1.00	602.63	375.00	0.133	0.083	1.61
13	7:18	1.00	0.747	1.00	548.41	375.00	0.075	0.051	1.46
14	8:10	1.00	0.836	1.00	15.15	12.50	5.645	4.656	1.21
15	7:56	1.00	0.812	1.00	579.70	375.00	0.152	0.098	1.55
16	9:24	1.00	0.962	1.00	13.87	15.00	1.839	1.989	0.92
17	10:36	1.00	1.085	1.00	15.79	15.00	3.560	3.383	1.05
18	11:22	1.00	1.164	1.00	14.68	15.00	1.964	2.007	0.98
19	11:54	1.00	1.218	1.00	14.72	15.00	3.890	3.964	0.98
20	12:38	1.00	1.294	1.00	16.82	15.00	1.789	1.595	1.12
21	12:36	1.00	0.664	1.00	122.10	125.00	0.017	0.017	0.98
22	13:56	1.00	0.735	1.00	12.99	15.00	0.991	1.145	0.87
23	14:20	1.00	0.756	1.00	11.11	15.00	0.847	1.144	0.74
24	14:32	1.00	0.766	1.00	51.29	37.50	0.556	0.407	1.37
25	14:50	1.00	0.782	1.00	12.44	15.00	0.882	1.063	0.83
26	16:12	1.00	0.854	1.00	13.61	15.00	0.633	0.698	0.91
27	16:28	1.00	0.868	1.00	15.78	18.00	0.842	0.960	0.88
28	17:02	1.00	0.898	1.00	10.85	15.00	0.713	0.986	0.72
29	17:38	1.00	0.930	1.00	9.88	15.00	0.575	0.874	0.66
30	17:44	1.00	0.935	1.00	11.66	15.00	0.343	0.441	0.78
31	17:36	1.00	0.928	1.00	13.45	15.00	1.677	1.870	0.90
32	17:46	1.00	0.937	1.00	10.86	12.00	0.520	0.574	0.91
33	18:52	1.00	0.995	1.00	13.55	15.00	0.131	0.145	0.90
34	20:20	1.00	1.072	1.00	9.05	15.00	0.366	0.606	0.60
35	20:50	1.00	0.904	1.00	26.56	25.00	0.392	0.369	1.06
36	22:26	1.00	0.974	1.00	28.31	25.00	0.244	0.215	1.13
37	22:46	1.00	0.988	1.00	9.07	15.00	1.234	2.041	0.60
38	22:40	1.00	0.984	1.00	10.11	15.00	0.673	0.999	0.67
39	24:06	1.00	1.046	1.00	12.15	15.00	1.998	2.467	0.81
40	25:16	1.00	1.097	1.00	11.52	15.00	2.320	3.021	0.77
41	27:22	1.00	1.188	1.00	12.15	15.00	1.207	1.490	0.81
42	31:48	0.99	1.381	0.99	16.82	12.50	2.121	1.576	1.35
43	33:14	0.96	1.443	0.96	27.34	30.00	1.603	1.759	0.91
44	33:14	0.99	1.443	0.99	36.19	37.60	1.488	1.546	0.96

RIC
07/02/90 13:42:00
SAMPLE: CLP,7255,,CC0702,L,W,,V,CAL,
CONDS.: 45'(3 MIN) TO 220' @ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CC0702A #1
CALI: CC0702A #3

SCANS 40 TO 1100



Quantitation Report File: CC0717A

Data: CC0717A.TI
07/17/90 15:42:00
Sample: CLP,7262,,CC0717A,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

CC 0717A

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	296	9:52	1	1.000	A BB	39578.	10.000 UG/L	0.52
2	77	571	19:02	2	1.000	A BB	144273.	10.000 UG/L	0.52
3	55	691	23:02	3	1.000	A BB	77603.	10.000 UG/L	0.52
4	65	379	12:38	1	1.280	A BB	53482.	10.000 UG/L	0.52
5	84	526	17:32	2	0.921	A VB	239768.	10.000 UG/L	0.52
6	98	719	23:58	3	1.041	A BB	231497.	10.000 UG/L	0.52
7	50	50	1:40	1	0.169	A BB	119633.	20.000 UG/L	1.04
8	94	82	2:44	1	0.277	A BB	145691.	20.000 UG/L	1.04
9	62	105	3:30	1	0.355	A BB	137847.	20.000 UG/L	1.04
10	64	136	4:32	1	0.459	A BB	94727.	20.000 UG/L	1.04
11	84	200	6:40	1	0.676	A BB	89635.	15.000 UG/L	0.78
12	43	220	7:20	1	0.743	A BB	147174.	375.000 UG/L	19.58
13	56	220	7:20	1	0.743	A BB	73345.	375.000 UG/L	19.58
14	76	248	8:16	1	0.838	A BB	232571.	12.500 UG/L	0.65
15	53	241	8:02	1	0.814	A BB	171836.	375.000 UG/L	19.58
16	96	284	9:28	1	0.959	A BB	101569.	15.000 UG/L	0.78
17	63	321	10:42	1	1.084	A BB	190763.	15.000 UG/L	0.78
18	96	344	11:28	1	1.162	A BB	107589.	15.000 UG/L	0.78
19	83	359	11:58	1	1.213	A BB	203485.	15.000 UG/L	0.78
20	62	382	12:44	1	1.291	A BB	87945.	15.000 UG/L	0.78
21	72	380	12:40	2	0.665	A BB	23455.	125.000 UG/L	6.53
22	97	421	14:02	2	0.737	A BB	193607.	15.000 UG/L	0.78
23	117	433	14:26	2	0.758	A VB	173873.	15.000 UG/L	0.78
24	43	438	14:36	2	0.767	A BB	176813.	37.500 UG/L	1.96
25	83	447	14:54	2	0.783	A BB	171759.	15.000 UG/L	0.78
26	63	489	16:18	2	0.856	A BB	123002.	15.000 UG/L	0.78
27	75	496	16:32	2	0.869	A BB	194442.	18.000 UG/L	0.94
28	130	514	17:08	2	0.900	A BB	163351.	15.000 UG/L	0.78
29	129	531	17:42	2	0.930	A BB	132446.	15.000 UG/L	0.78
30	97	534	17:48	2	0.935	A BB	71963.	15.000 UG/L	0.78
31	78	530	17:40	2	0.928	A BB	341433.	15.000 UG/L	0.78
32	75	535	17:50	2	0.937	A BB	79425.	12.000 UG/L	0.63
33	63	568	18:56	2	0.995	A BB	24370.	15.000 UG/L	0.78
34	173	612	20:24	2	1.072	A BB	82699.	15.000 UG/L	0.78
35	43	627	20:54	3	0.907	A BB	62614.	25.000 UG/L	1.31
36	43	675	22:30	3	0.977	A BB	38126.	25.000 UG/L	1.31
37	164	684	22:48	3	0.990	A BB	172352.	15.000 UG/L	0.78
38	83	681	22:42	3	0.986	A BB	74945.	15.000 UG/L	0.78
39	92	725	24:10	3	1.049	A BB	245623.	15.000 UG/L	0.78
40	112	759	25:18	3	1.098	A BB	306866.	15.000 UG/L	0.78
41	106	821	27:22	3	1.188	A BB	158681.	15.000 UG/L	0.78
42	104	950	31:40	3	1.375	A BB	214130.	12.500 UG/L	0.65
43	106	958	31:56	3	1.386	A BB	387972.	30.000 UG/L	1.57
44	106	990	33:00	3	1.433	A BB	463244.	37.600 UG/L	1.96

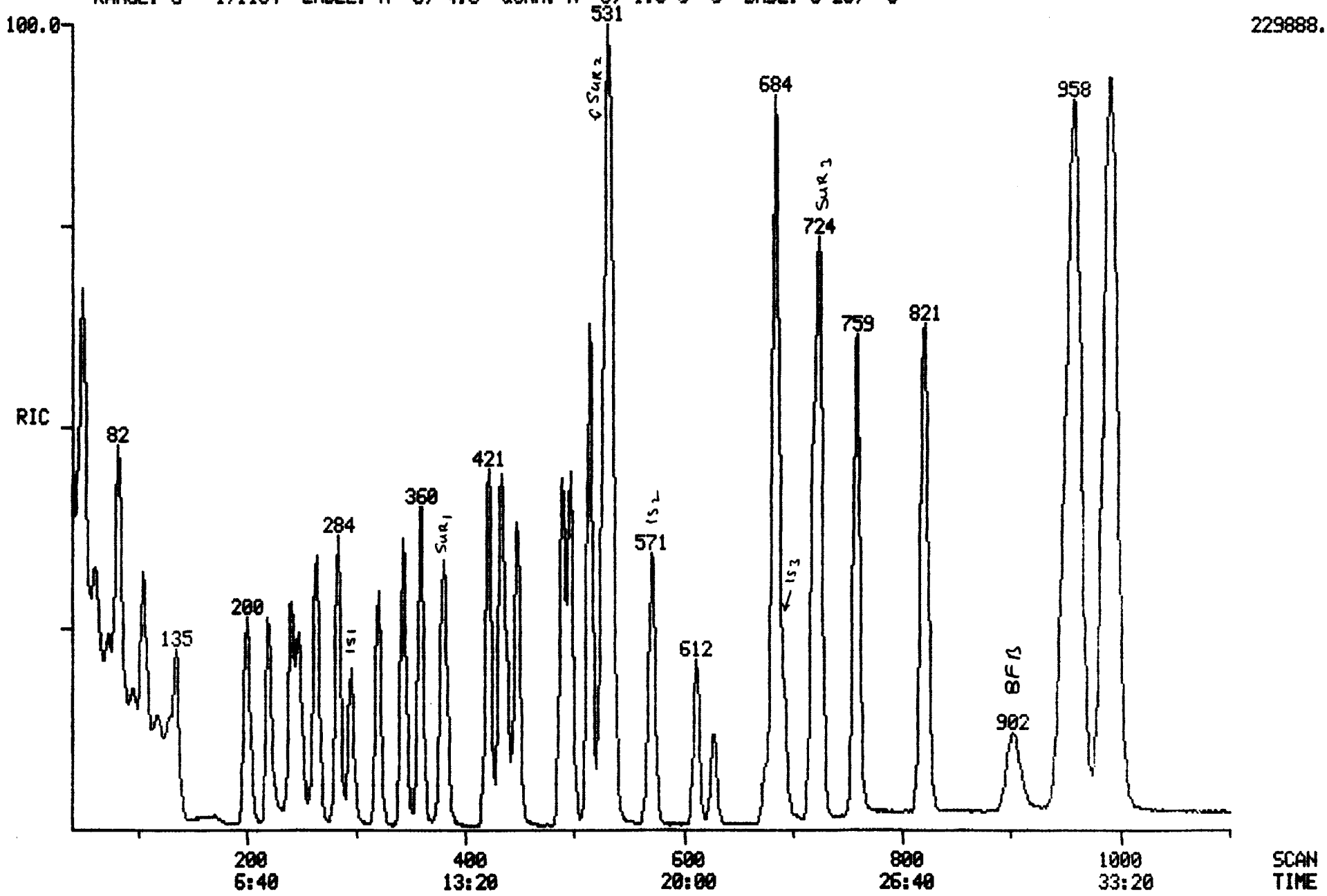
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.01	1.287	1.00	10.00	10.00	1.351	1.351	1.00
5	17:26	1.01	0.919	1.00	10.00	10.00	1.662	1.662	1.00
6	23:54	1.00	1.038	1.00	10.00	10.00	2.983	2.983	1.00
7	1:38	1.02	0.167	1.01	20.00	20.00	1.511	1.511	1.00
8	2:40	1.02	0.273	1.01	20.00	20.00	1.841	1.841	1.00
9	3:26	1.02	0.352	1.01	20.00	20.00	1.741	1.741	1.00
10	4:28	1.01	0.457	1.00	20.00	20.00	1.197	1.197	1.00

CC0717A

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:34	1.02	0.672	1.00	15.00	15.00	1.510	1.510	1.00
12	7:16	1.01	0.744	1.00	375.00	375.00	0.099	0.099	1.00
13	7:18	1.00	0.747	0.99	375.00	375.00	0.049	0.049	1.00
14	8:10	1.01	0.836	1.00	12.50	12.50	4.701	4.701	1.00
15	7:56	1.01	0.812	1.00	375.00	375.00	0.116	0.116	1.00
16	9:24	1.01	0.962	1.00	15.00	15.00	1.711	1.711	1.00
17	10:36	1.01	1.085	1.00	15.00	15.00	3.213	3.213	1.00
18	11:22	1.01	1.164	1.00	15.00	15.00	1.812	1.812	1.00
19	11:54	1.01	1.218	1.00	15.00	15.00	3.428	3.428	1.00
20	12:38	1.01	1.294	1.00	15.00	15.00	1.481	1.481	1.00
21	12:36	1.01	0.664	1.00	125.00	125.00	0.013	0.013	1.00
22	13:56	1.01	0.735	1.00	15.00	15.00	0.895	0.895	1.00
23	14:20	1.01	0.756	1.00	15.00	15.00	0.803	0.803	1.00
24	14:32	1.00	0.766	1.00	37.50	37.50	0.327	0.327	1.00
25	14:50	1.00	0.782	1.00	15.00	15.00	0.794	0.794	1.00
26	16:12	1.01	0.854	1.00	15.00	15.00	0.568	0.568	1.00
27	16:28	1.00	0.868	1.00	18.00	18.00	0.749	0.749	1.00
28	17:02	1.01	0.898	1.00	15.00	15.00	0.755	0.755	1.00
29	17:38	1.00	0.930	1.00	15.00	15.00	0.612	0.612	1.00
30	17:44	1.00	0.935	1.00	15.00	15.00	0.333	0.333	1.00
31	17:36	1.00	0.928	1.00	15.00	15.00	1.578	1.578	1.00
32	17:46	1.00	0.937	1.00	12.00	12.00	0.459	0.459	1.00
33	18:52	1.00	0.995	1.00	15.00	15.00	0.113	0.113	1.00
34	20:20	1.00	1.072	1.00	15.00	15.00	0.382	0.382	1.00
35	20:50	1.00	0.904	1.00	25.00	25.00	0.323	0.323	1.00
36	22:26	1.00	0.974	1.00	25.00	25.00	0.197	0.197	1.00
37	22:46	1.00	0.988	1.00	15.00	15.00	1.481	1.481	1.00
38	22:40	1.00	0.984	1.00	15.00	15.00	0.644	0.644	1.00
39	24:06	1.00	1.046	1.00	15.00	15.00	2.110	2.110	1.00
40	25:16	1.00	1.097	1.00	15.00	15.00	2.636	2.636	1.00
41	27:22	1.00	1.188	1.00	15.00	15.00	1.363	1.363	1.00
42	31:48	1.00	1.381	1.00	12.50	12.50	2.207	2.207	1.00
43	33:14	0.96	1.443	0.96	30.00	30.00	1.666	1.666	1.00
44	33:14	0.99	1.443	0.99	37.60	37.60	1.588	1.588	1.00

RIC
07/17/90 15:42:00
SAMPLE: CLP,7262,,CC0717A,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CC0717A #685 SCANS 40 TO 1100
CALI: CC0717A #1



Quantitation Report File: 0717BLK1

Data: 0717BLK1.TI
07/17/90 17:56:00
Sample: CLP,7262,,0717BLK1,L,W,,V,BLK,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

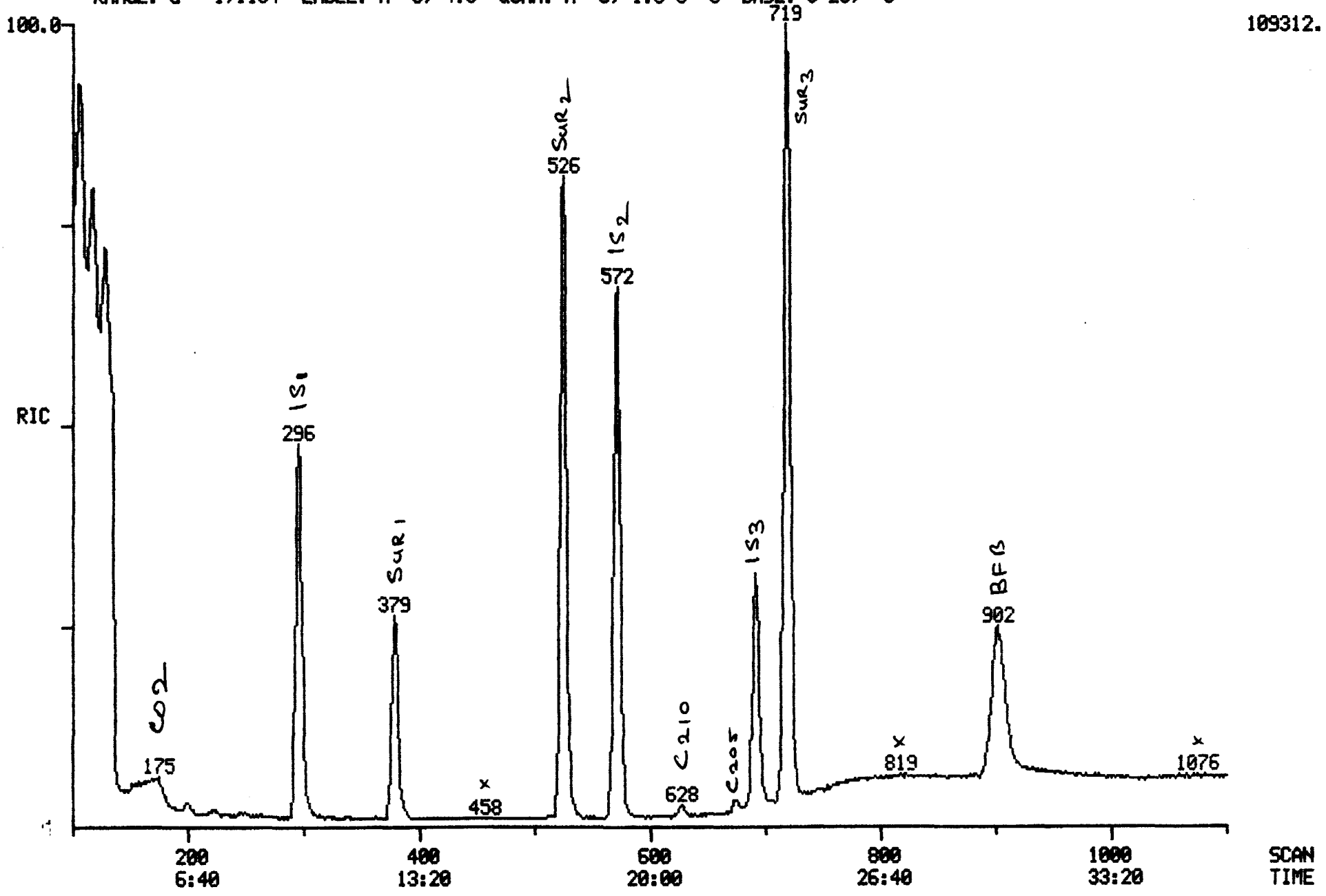
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C210	2-HEXANONE	
8	C205	4-METHYL-2-PENTANONE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	296	9:52	1	1.000	A BB	47579.	10.000	UG/L	15.67
2	77	572	19:04	2	1.000	A BB	147289.	10.000	UG/L	15.67
3	55	691	23:02	3	1.000	A BB	76482.	10.000	UG/L	15.67
4	65	379	12:38	1	1.280	A BB	53601.	8.337	UG/L	13.06
5	84	526	17:32	2	0.920	A BB	265560.	10.849	UG/L	17.00
6	98	719	23:58	3	1.041	A BB	247205.	10.835	UG/L	16.98
7	43	628	20:56	3	0.909	A BB	3202.	1.297	UG/L	2.03
8	43	675	22:30	3	0.977	A BB	3769.	2.508	UG/L	3.93

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.01	1.287	1.00	8.34	10.00	1.127	1.351	0.83
5	17:26	1.01	0.919	1.00	10.85	10.00	1.803	1.662	1.08
6	23:54	1.00	1.038	1.00	10.84	10.00	3.232	2.983	1.08
7	20:50	1.00	0.904	1.00	1.30	25.00	0.017	0.323	0.05
8	22:26	1.00	0.974	1.00	2.51	25.00	0.020	0.197	0.10

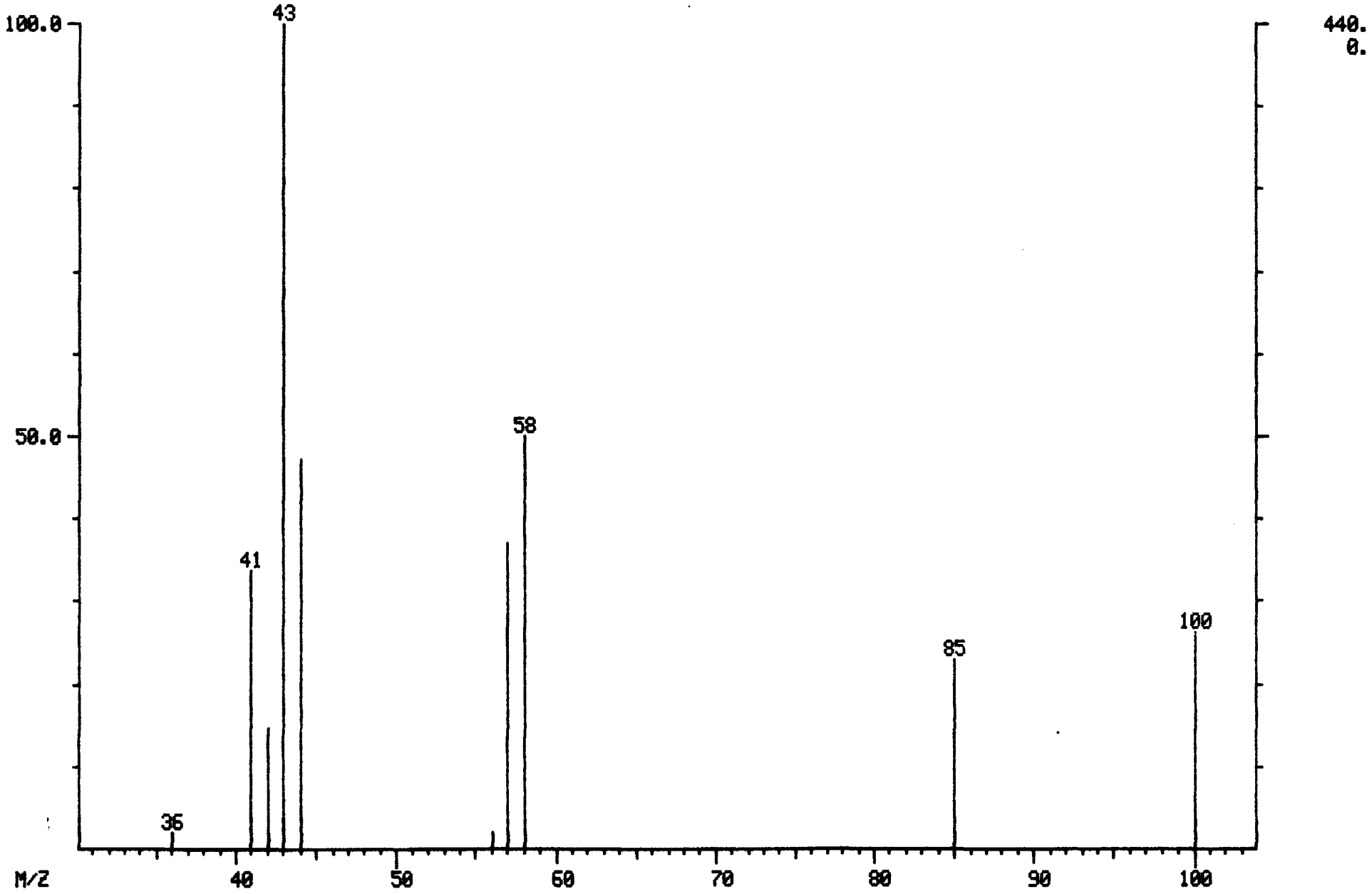
RIC DATA: 0717BLK1 #1 SCANS 100 TO 1100
07/17/90 17:56:00 CALI: 0717BLK1 #1
SAMPLE: CLP,7262,,0717BLK1,L,W,,V,BLK,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



MASS SPECTRUM
07/17/90 17:56:00 + 20:56
SAMPLE: CLP,7262,,0717BLK1,L,W,,V,BLK,
CONDS.: 45'(3MIN) TO 220'08'/MIN
TEMP: 187 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 0717BLK1 #628
CALI: 0717BLK1 #1

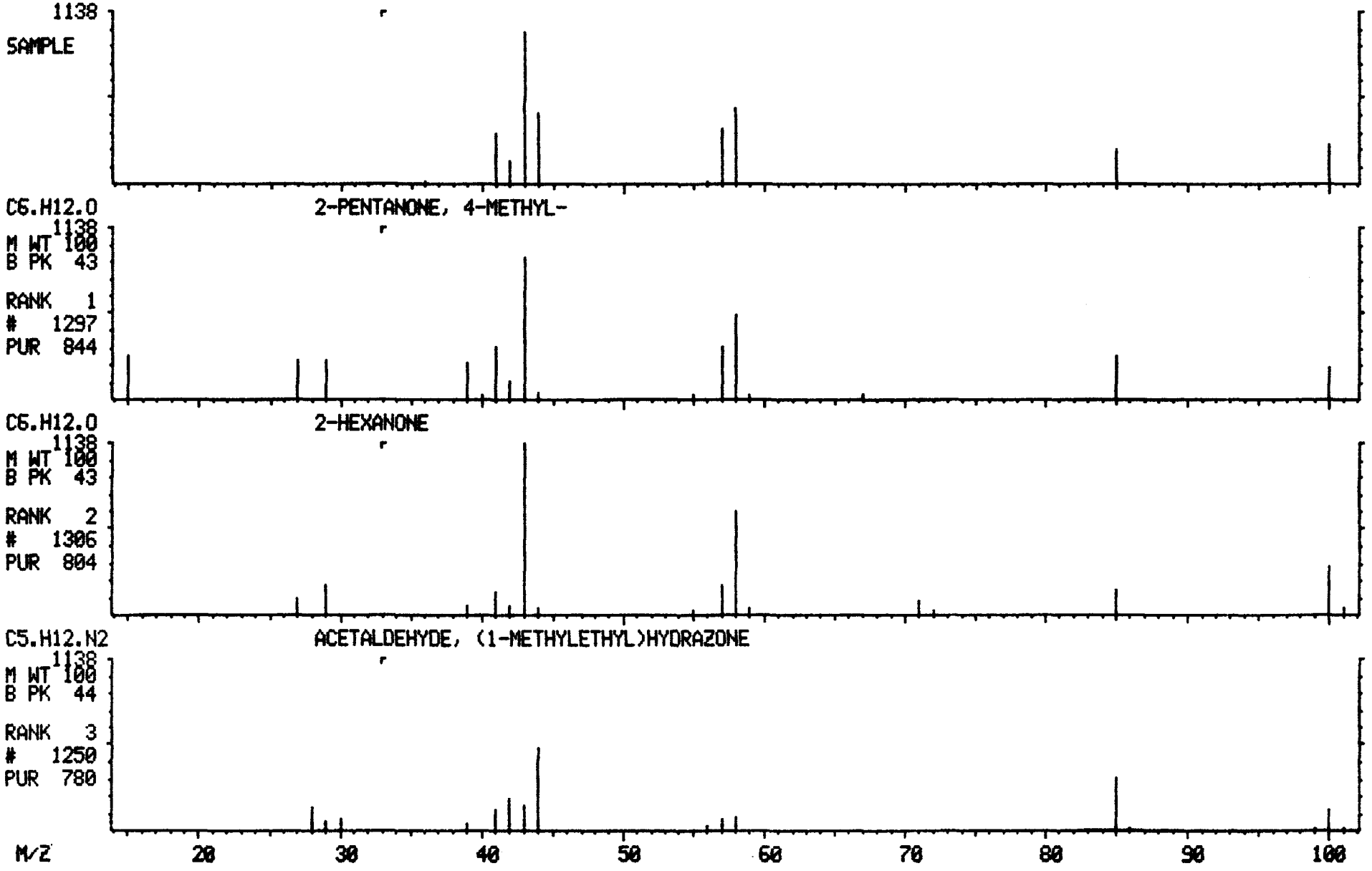
BASE M/Z: 43
RIC: 1478.



MID LIBRARY SEARCH (LIBRARYNB)
07/17/90 17:56:00 + 20:56
SAMPLE: CLP,7262,,0717BLK1,L,W,,V,BLK,
CONDS.: 45'(3MIN) TO 220'08'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 0717BLK1 # 628
CALI: 0717BLK1 # 1

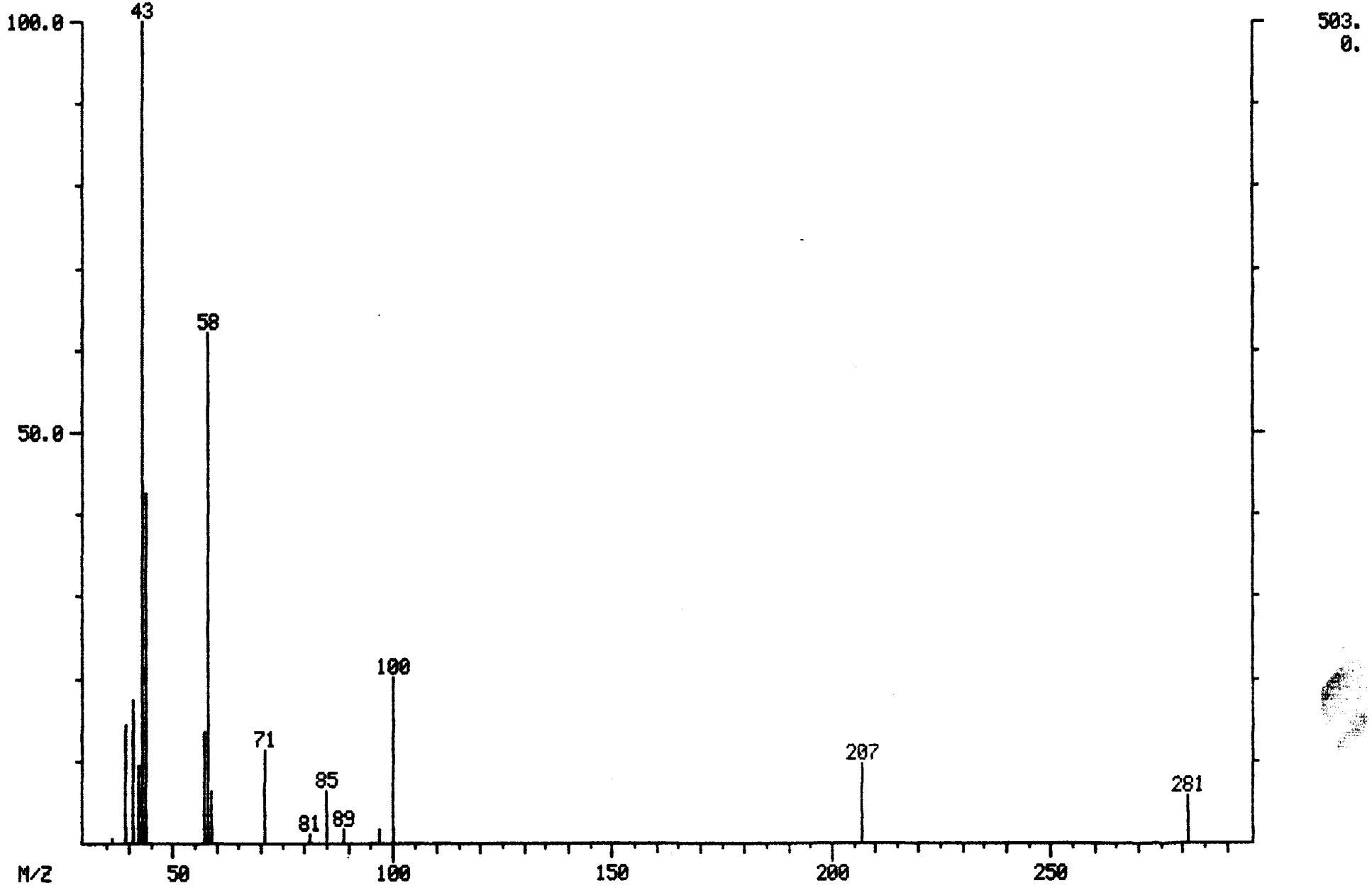
BASE M/Z: 43
RIC: 1478.



MASS SPECTRUM
07/17/90 17:56:00 + 22:30
SAMPLE: CLP,7262,,0717BLK1,L,W,,V,BLK,
CONDS.: 45'(3MIN) TO 220'08'/MIN
TEMP: 200 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 0717BLK1 #675
CALI: 0717BLK1 #1

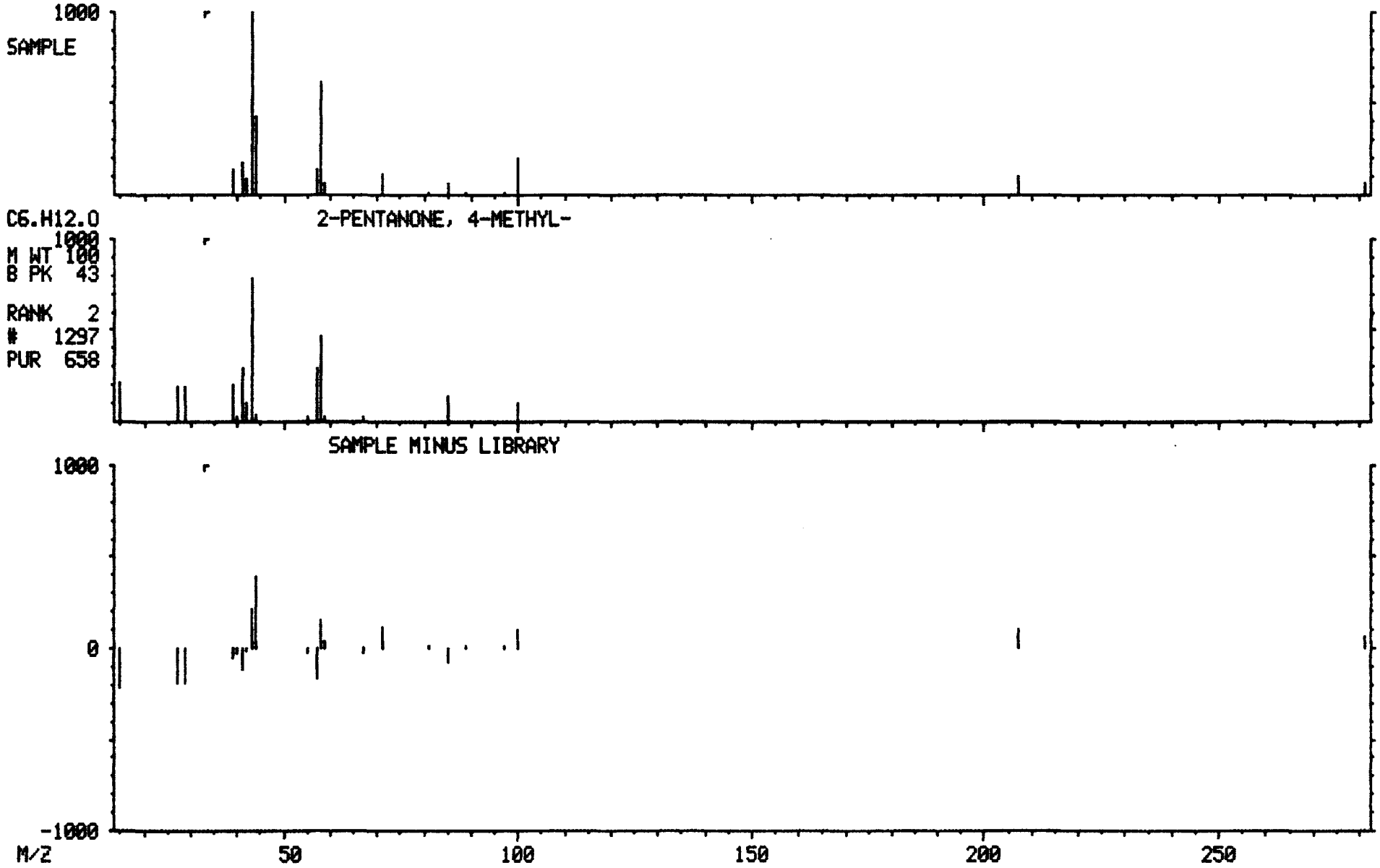
BASE M/Z: 43
RIC: 1632.



MID LIBRARY SEARCH (LIBRARYNB)
07/17/90 17:56:00 + 22:30
SAMPLE: CLP,7262,,0717BLK1,L,W,,V,BLK,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 0717BLK1 # 675
CALI: 0717BLK1 # 1

BASE M/Z: 43
RIC: 1630.



Quantitation Report File: 7262R95

Data: 7262R95.TI
07/17/90 18:40:00
Sample: CLP,7262,,90FT02R95,L,W,,V,BLK,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

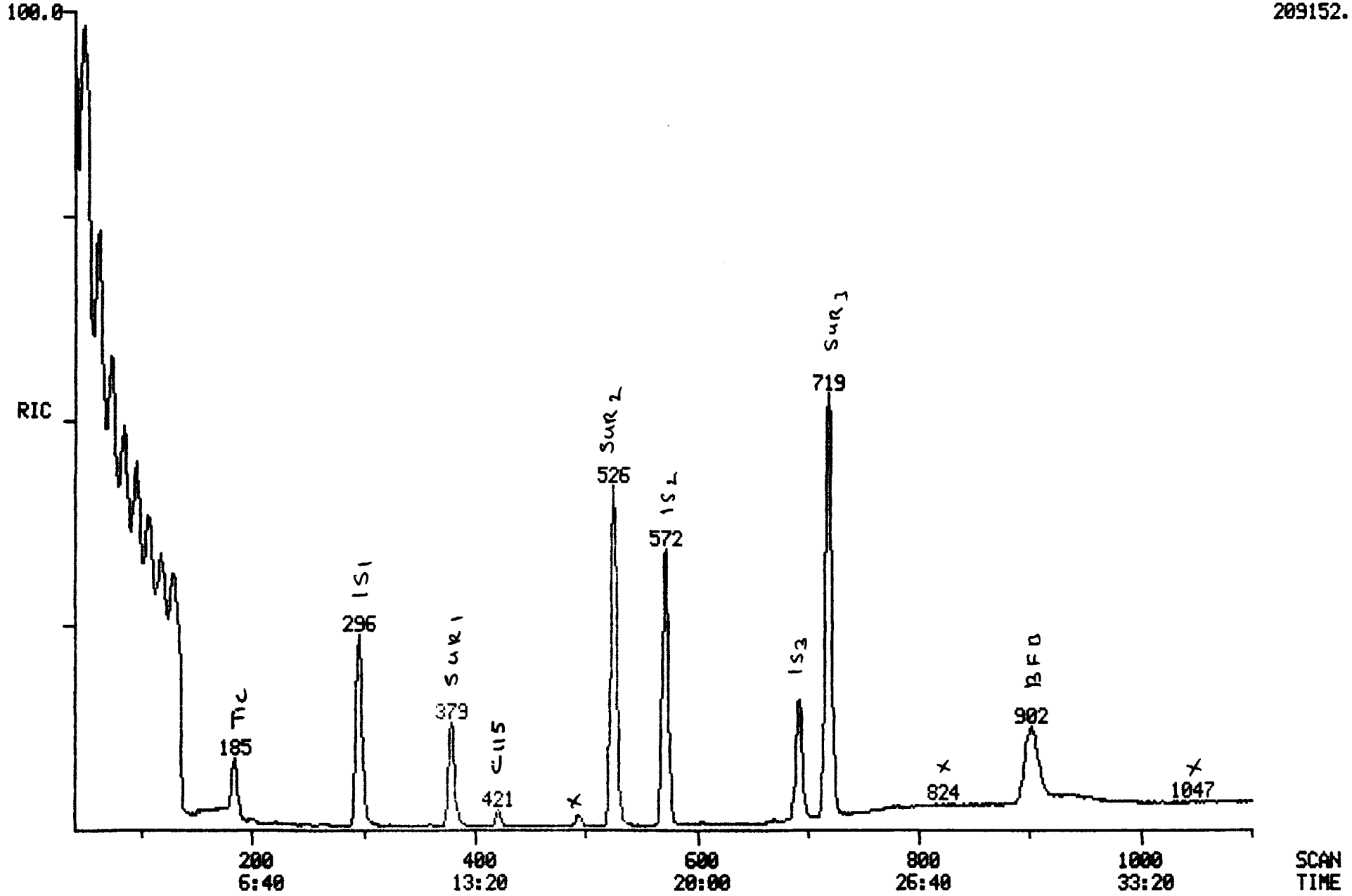
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	CI15	1,1,1-TRICHLOROETHANE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	296	9:52	1	1.000	A BB	47848.	10.000	UG/L	16.25
2	77	571	19:02	2	1.000	A BB	146234.	10.000	UG/L	16.25
3	55	692	23:04	3	1.000	A BB	72960.	10.000	UG/L	16.25
4	65	379	12:38	1	1.280	A BB	53577.	8.286	UG/L	13.47
5	84	526	17:32	2	0.921	A BB	268238.	11.037	UG/L	17.94
6	98	719	23:58	3	1.039	A BB	253582.	11.651	UG/L	18.93
7	97	421	14:02	2	0.737	A BB	7384.	0.564	UG/L	0.92

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.01	1.287	1.00	8.29	10.00	1.120	1.351	0.83
5	17:26	1.01	0.919	1.00	11.04	10.00	1.834	1.662	1.10
6	23:54	1.00	1.038	1.00	11.65	10.00	3.476	2.983	1.17
7	13:56	1.01	0.735	1.00	0.56	15.00	0.034	0.895	0.04

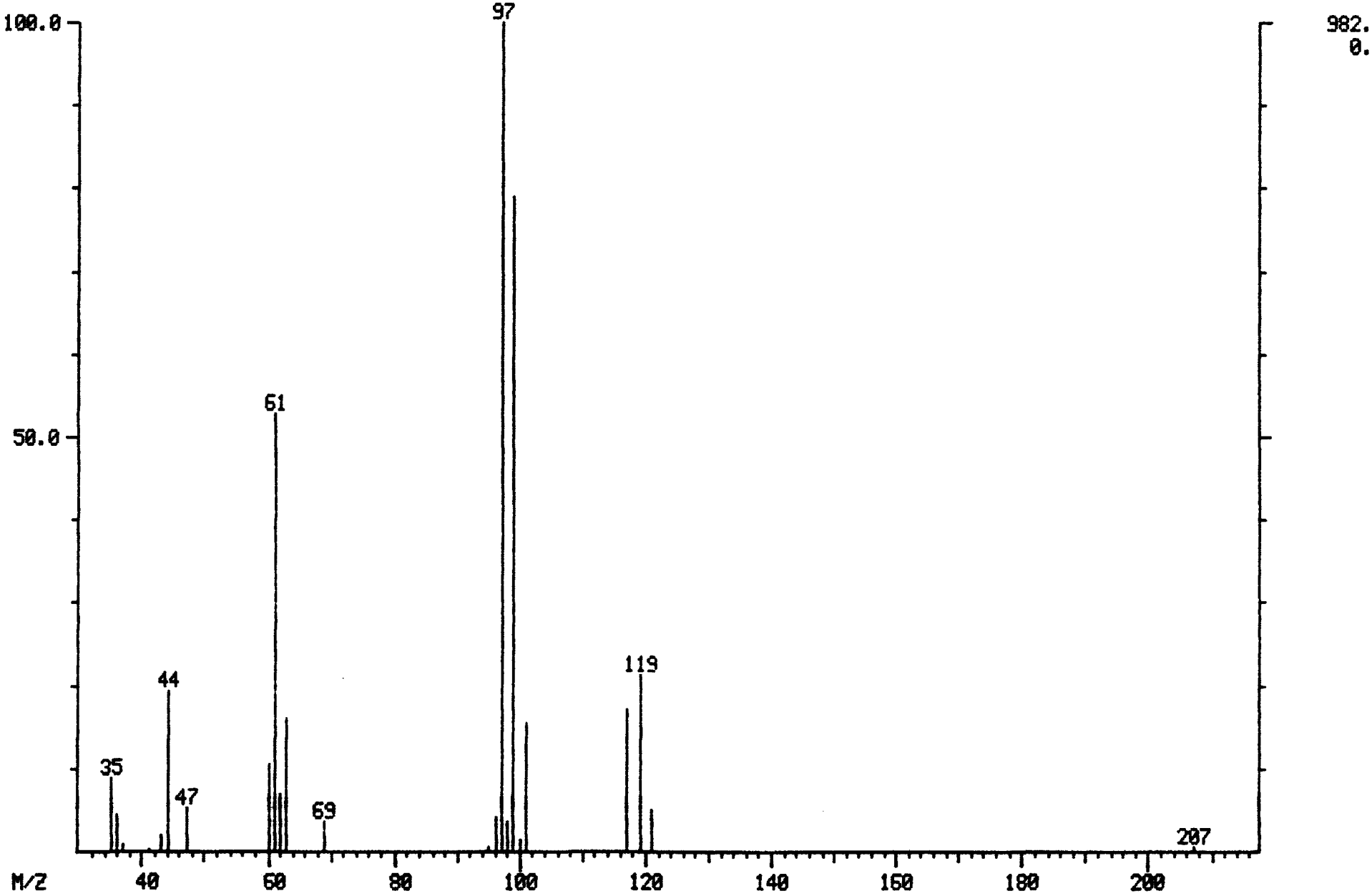
RIC DATA: 7262R95 #685 SCANS 40 TO 1100
07/17/90 18:40:00 CALI: 7262R95 #1
SAMPLE: CLP,7262,,90FT02R95,L,W,,V,BLK,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



MASS SPECTRUM
07/17/90 18:40:00 + 14:02
SAMPLE: CLP,7262,,90FT02R95,L,W,,V,BLK,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
TEMP: 132 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 7262R95 #421
CALI: 7262R95 #1

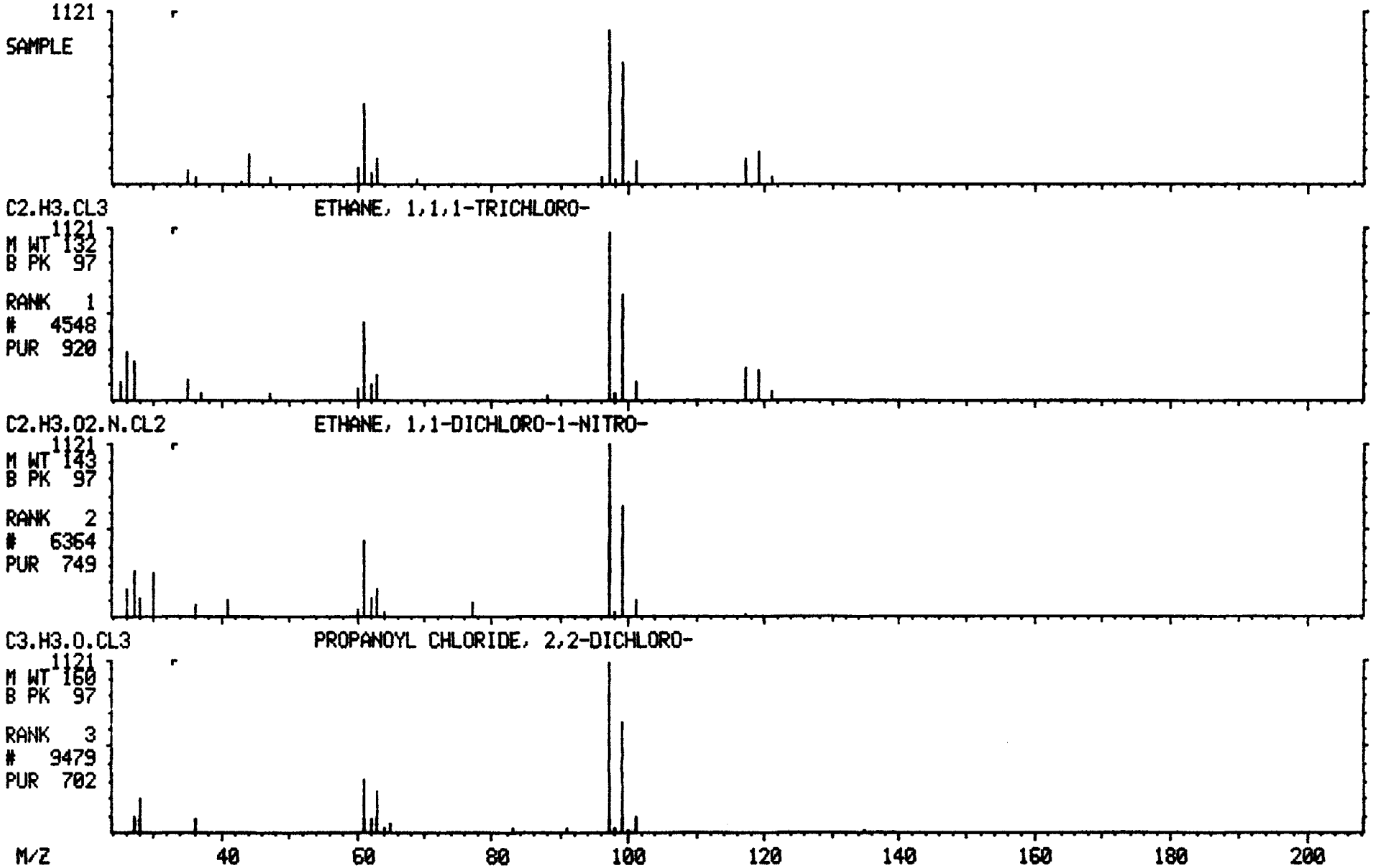
BASE M/Z: 97
RIC: 3728.



MID LIBRARY SEARCH (LIBRARYNB)
07/17/90 18:40:00 + 14:02
SAMPLE: CLP,7262,,90FT02R95,L,W,,V,BLK,
CONDS.: 45'(3MIN) TO 220'08'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 7262R95 # 421
CALI: 7262R95 # 1

BASE M/Z: 97
RIC: 3712.



Quantitation Report File: 7262R95T

Data: 7262R95.TI
07/17/90 18:40:00
Sample: CLP,7262,,90FT02R95,L,W,,V,BLK,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

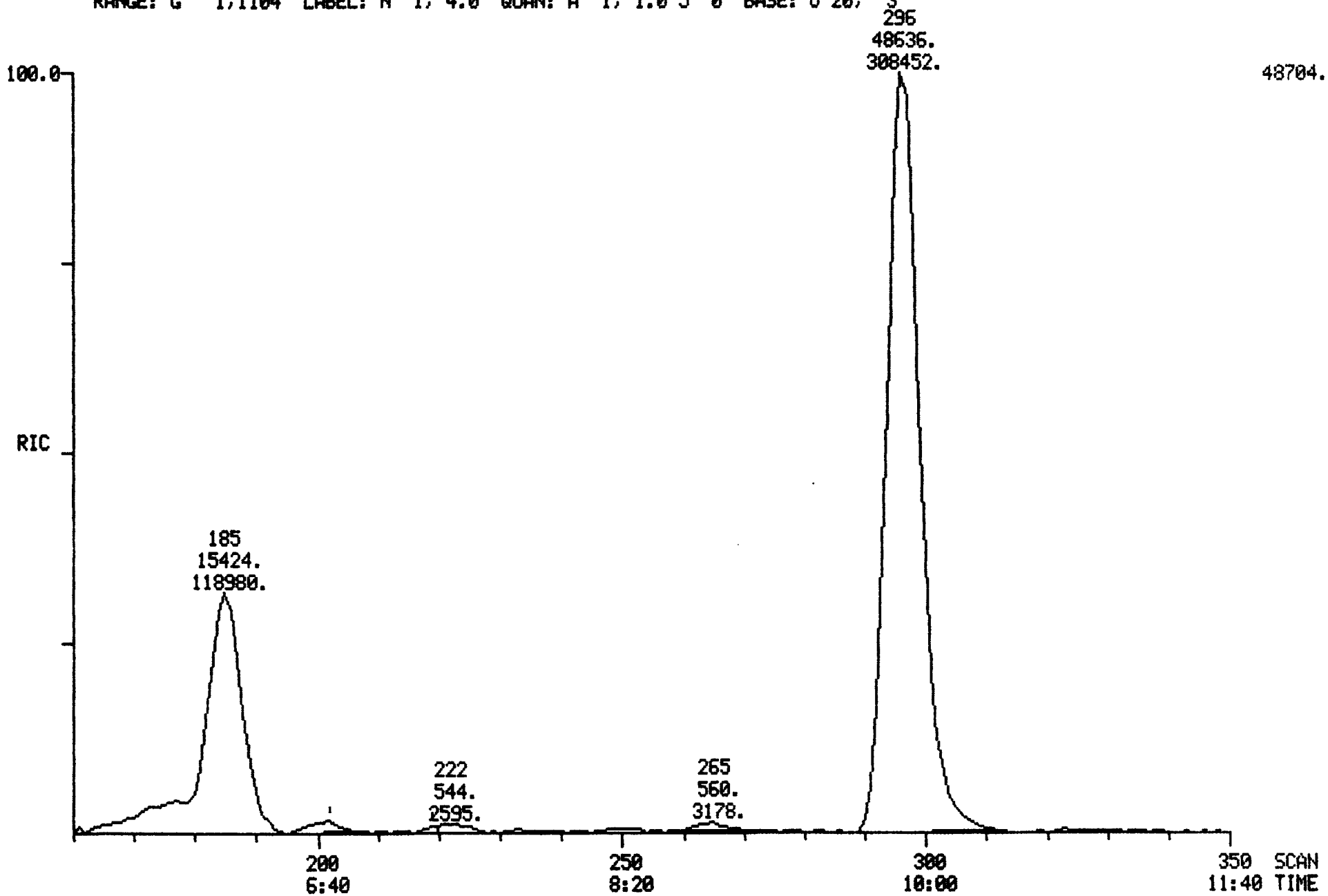
No	Name
1	UNKNOWN
2	UNKNOWN

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	RIC	185	6:10	2	0.625	A BB	151164.	~~49.007~~	5.0	32.89
2	RIC	296	9:52	2	1.000	A BB	308452.	~~100~~.000		67.11

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1					49.01		0.490		
2					100.00		1.000		

2) $\frac{151164 \times 10}{308454} = 5.0$ ppb

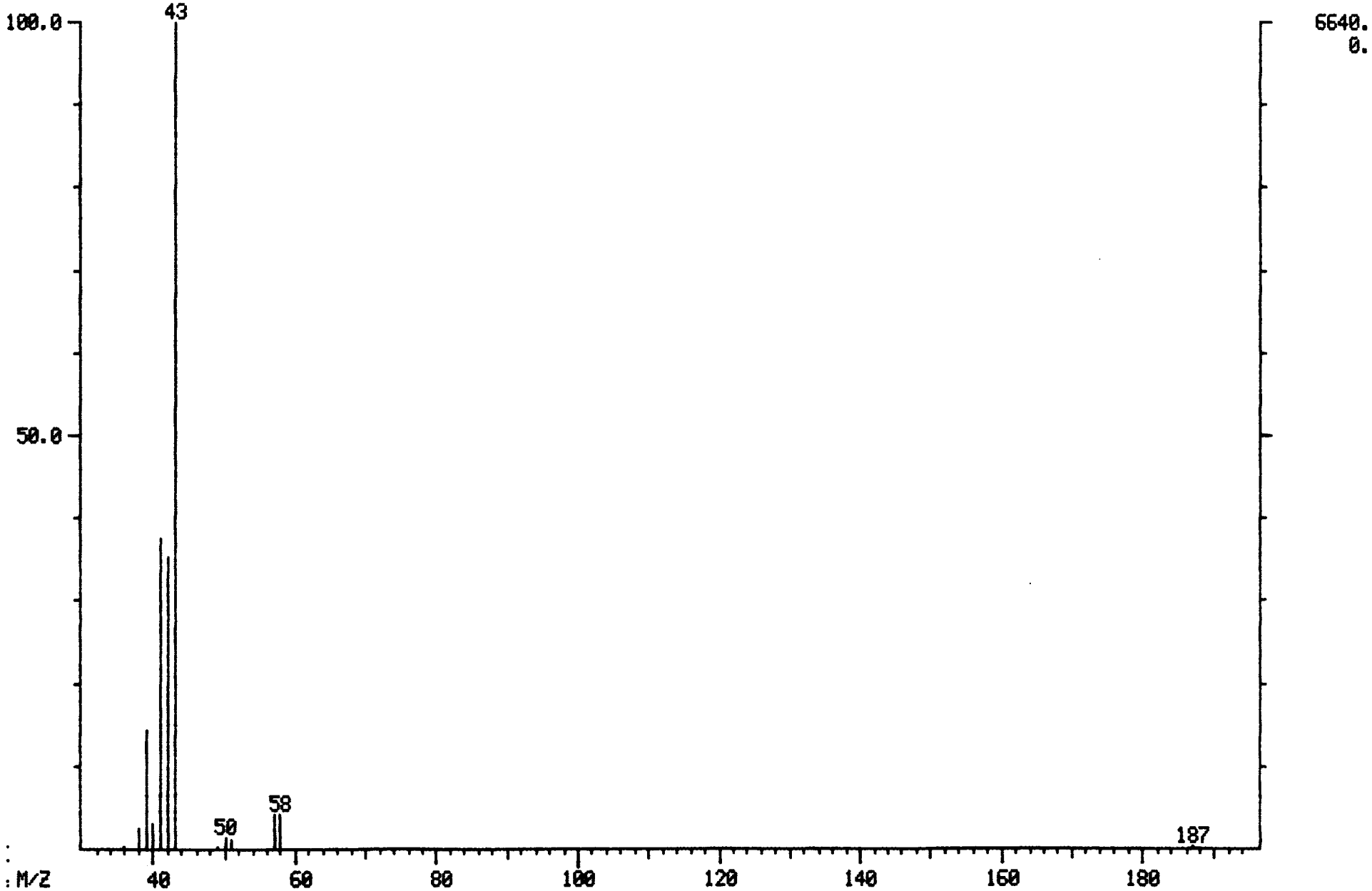
RIC DATA: 7262R95 #185 SCANS 160 TO 350
07/17/90 18:40:00 CALI: 7262R95 #1
SAMPLE: CLP,7262,,90FT02R95,L,W,,V,BLK,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
RANGE: G 1,1104 LABEL: N 1, 4.0 QUAN: A 1, 1.0 J 0 BASE: U 20, 3



MASS SPECTRUM
07/17/90 18:40:00 + 6:10
SAMPLE: CLP,7262,,90FT02R95,L,W,,V,BLK,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
TEMP: 69 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 7262R95 #185
CALI: 7262R95 #1

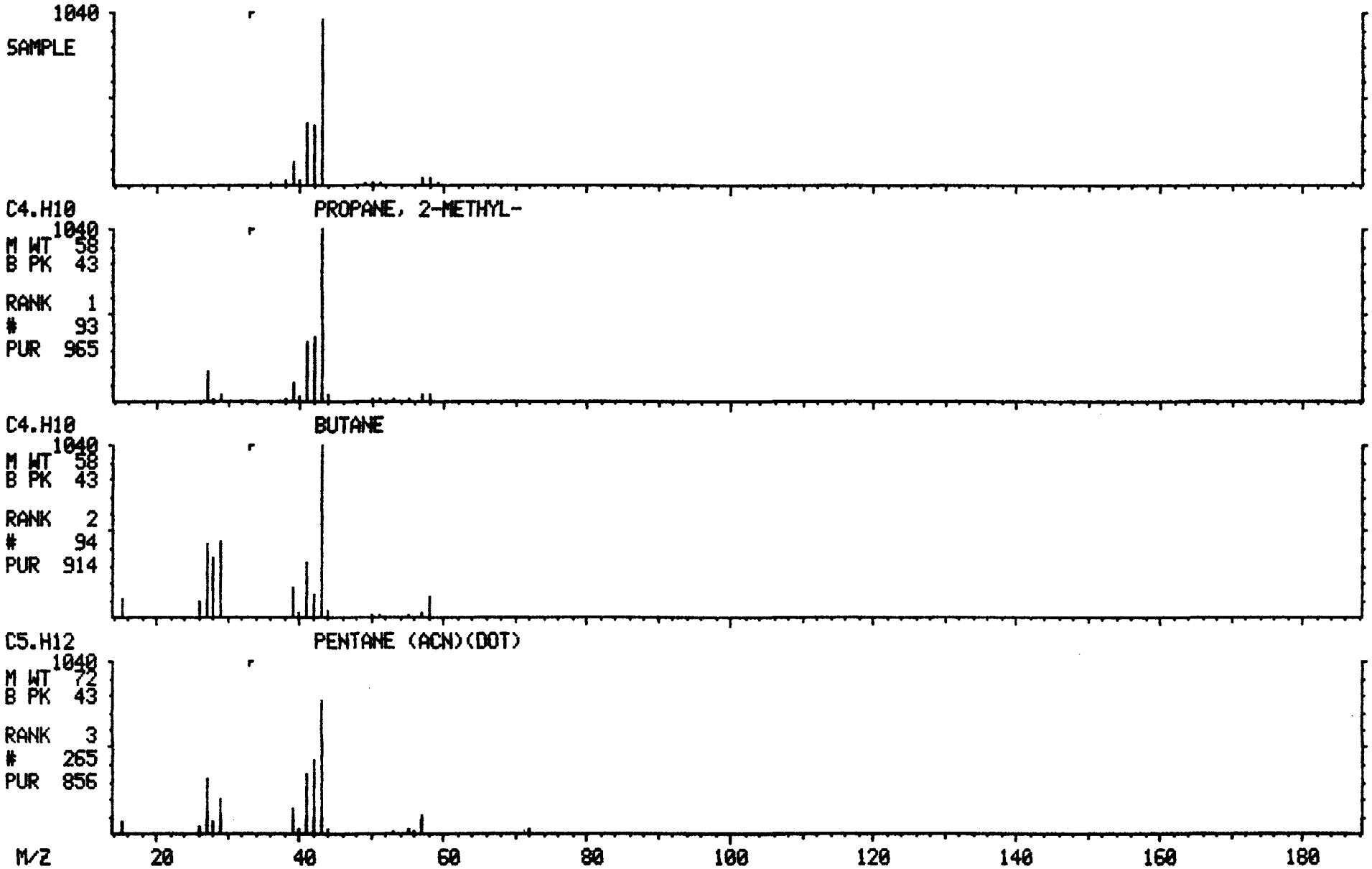
BASE M/Z: 43
RIC: 13584.



MID LIBRARY SEARCH (LIBRARYNB)
07/17/90 18:40:00 + 6:10
SAMPLE: CLP,7262,,90FT02R95,L,W,,V,BLK,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 7262R95 # 185
CALI: 7262R95 # 1

BASE M/Z: 43
RIC: 13584.



Quantitation Report File: 7262S53

Data: 7262S53.TI
07/17/90 19:26:00
Sample: CLP,7262,,90FT20S53,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

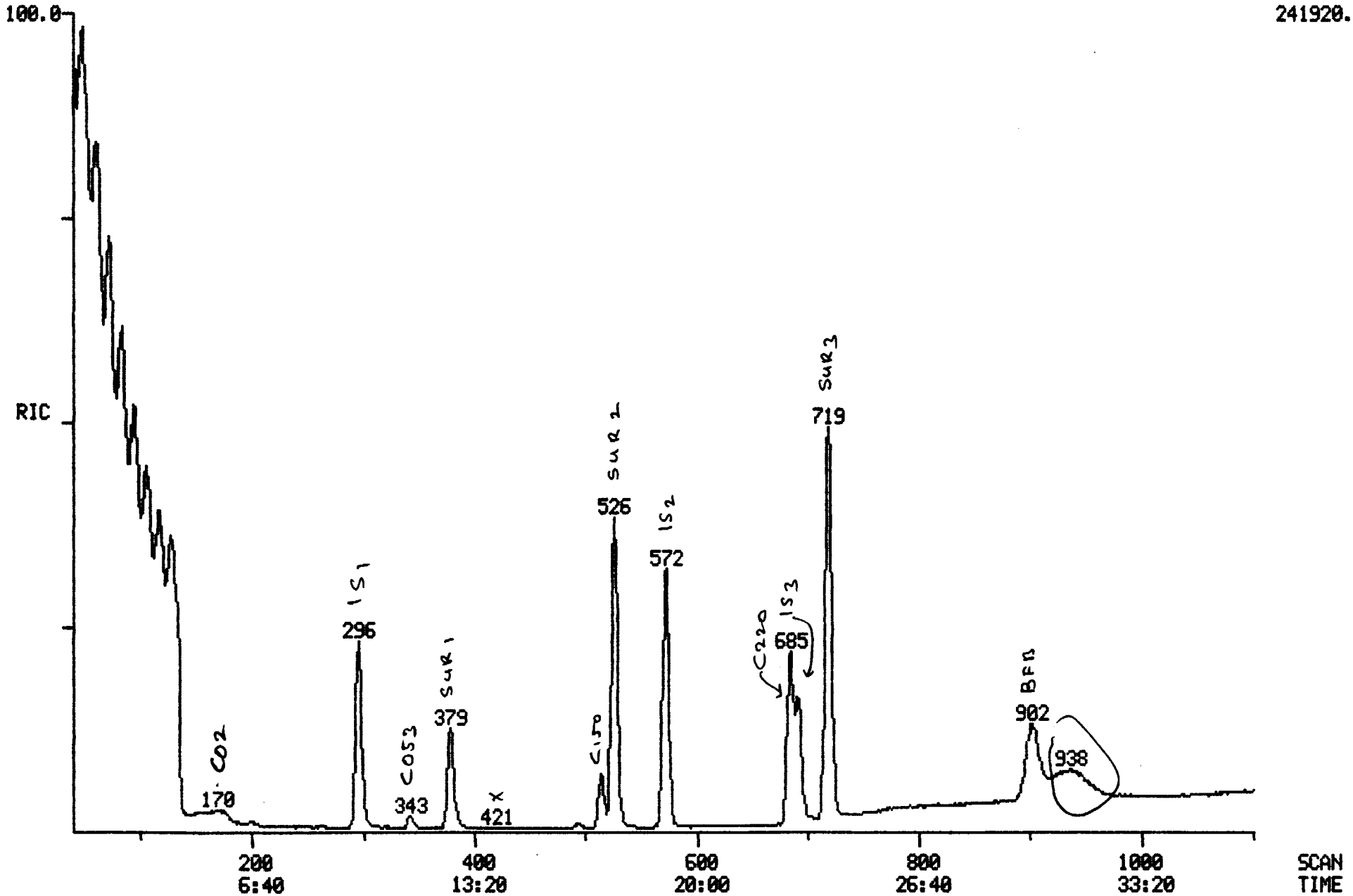
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CB15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CB10	BENZENE-D6	*SURROGATE*
6	CB05	TOLUENE-D8	*SURROGATE*
7	C053	1,2-DICHLOROETHENE (TOTAL)	
8	C150	TRICHLOROETHENE	
9	C220	TETRACHLOROETHENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	296	9:52	1	1.000	A BB	53388.	10.000	UG/L	15.16
2	77	571	19:02	2	1.000	A BB	157585.	10.000	UG/L	15.16
3	55	691	23:02	3	1.000	A BB	83285.	10.000	UG/L	15.16
4	65	379	12:38	1	1.280	A BB	57549.	7.977	UG/L	12.09
5	84	525	17:30	2	0.919	A BB	285742.	10.911	UG/L	16.54
6	98	719	23:58	3	1.041	A BB	273829.	11.022	UG/L	16.71
7	96	343	11:26	1	1.159	A BB	5442.	0.563	UG/L	0.85
8	130	514	17:08	2	0.900	A BB	18886.	1.588	UG/L	2.41
9	164	684	22:48	3	0.990	A BB	48255.	3.913	UG/L	5.93

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.01	1.287	1.00	7.98	10.00	1.078	1.351	0.80
5	17:26	1.00	0.919	1.00	10.91	10.00	1.813	1.662	1.09
6	23:54	1.00	1.038	1.00	11.02	10.00	3.288	2.983	1.10
7	11:22	1.01	1.164	1.00	0.56	15.00	0.068	1.812	0.04
8	17:02	1.01	0.898	1.00	1.59	15.00	0.080	0.755	0.11
9	22:46	1.00	0.988	1.00	3.91	15.00	0.386	1.481	0.26

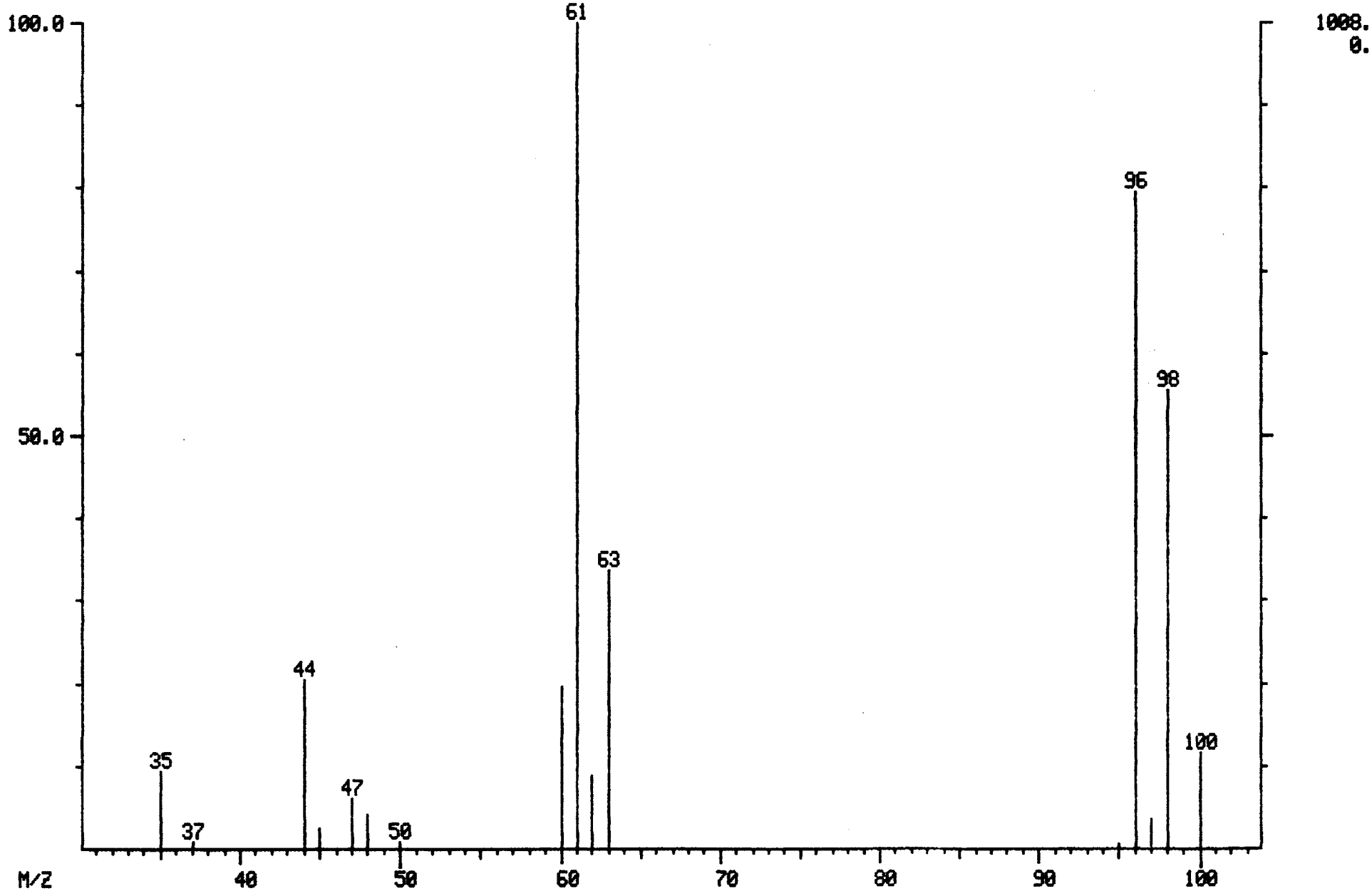
RIC DATA: 7262553 #685 SCANS 40 TO 1100
07/17/90 19:26:00 CALI: 7262553 #1
SAMPLE: CLP,7262,,90FT20S53,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



MASS SPECTRUM
07/17/90 19:26:00 + 11:26
SAMPLE: CLP,7262,,90FT20553,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
TEMP: 111 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 7262553 #343
CALI: 7262553 #1

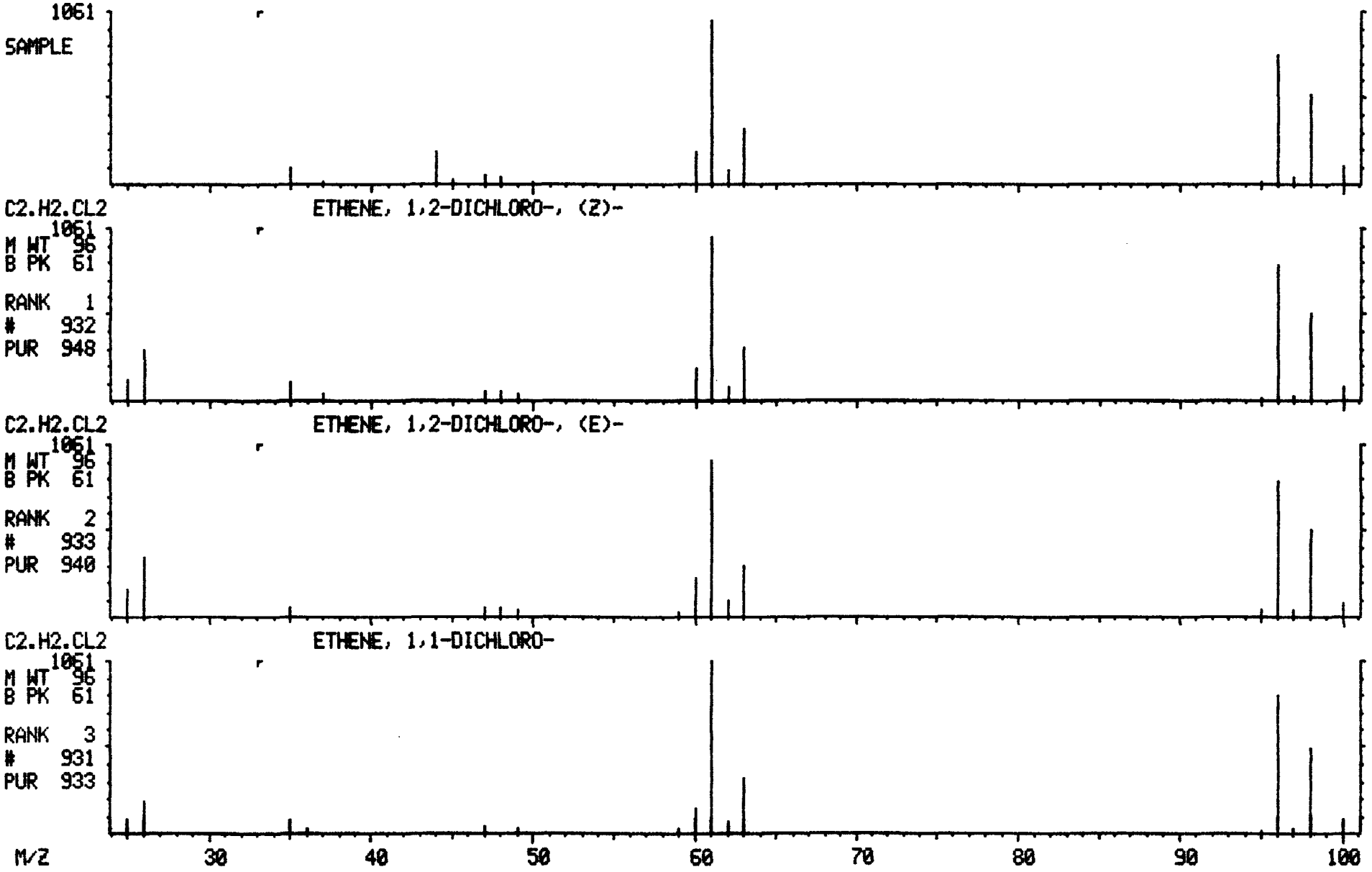
BASE M/Z: 61
RIC: 3600.



MID LIBRARY SEARCH (LIBRARYNB)
07/17/90 19:26:00 + 11:26
SAMPLE: CLP,7262,,90FT20553,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 7262553 # 343
CALI: 7262553 # 1

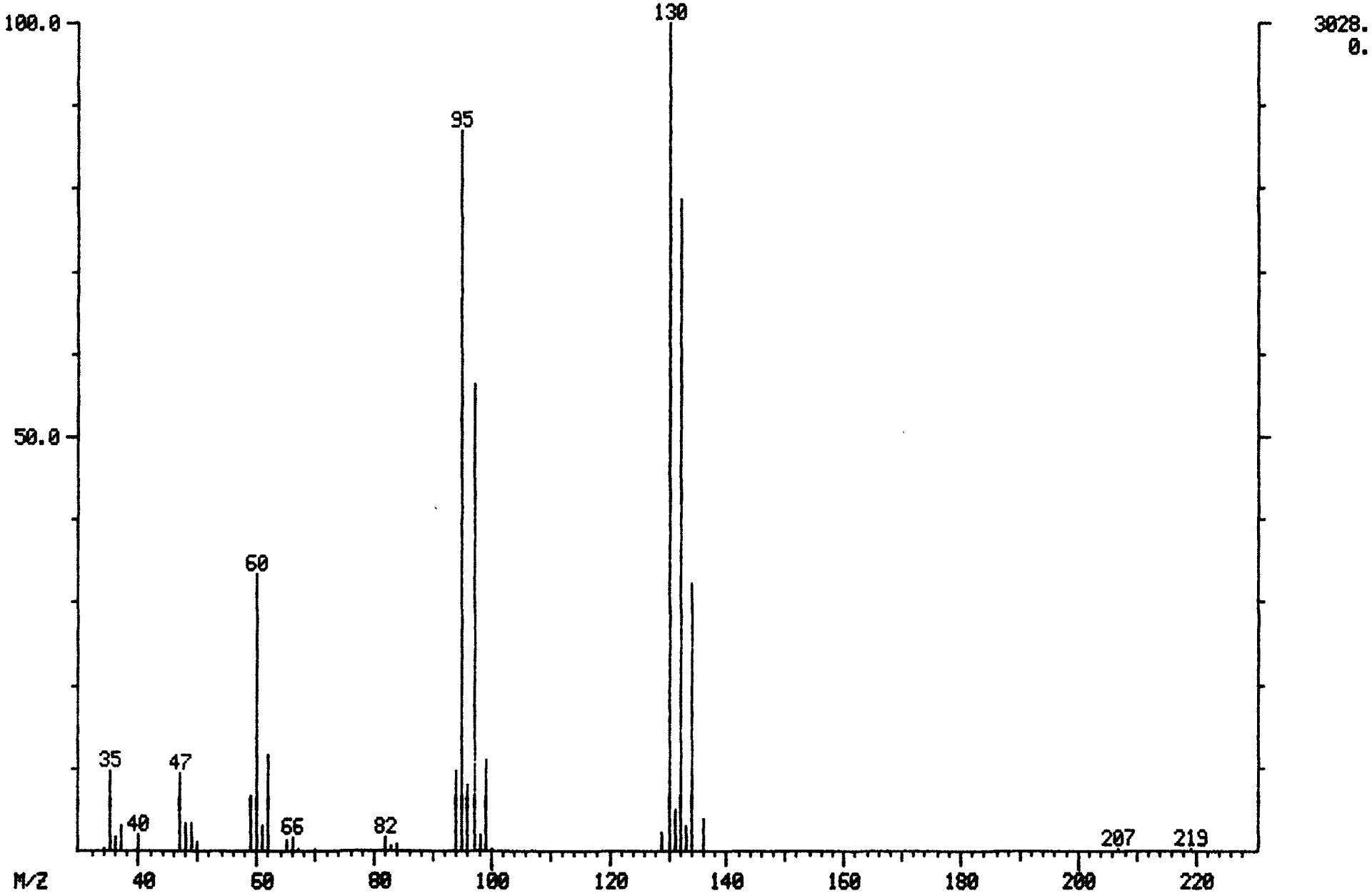
BASE M/Z: 61
RIC: 3600.



MASS SPECTRUM
07/17/90 19:26:00 + 17:08
SAMPLE: CLP,7262,,90FT20553,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
TEMP: 157 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 7262553 #514
CALI: 7262553 #1

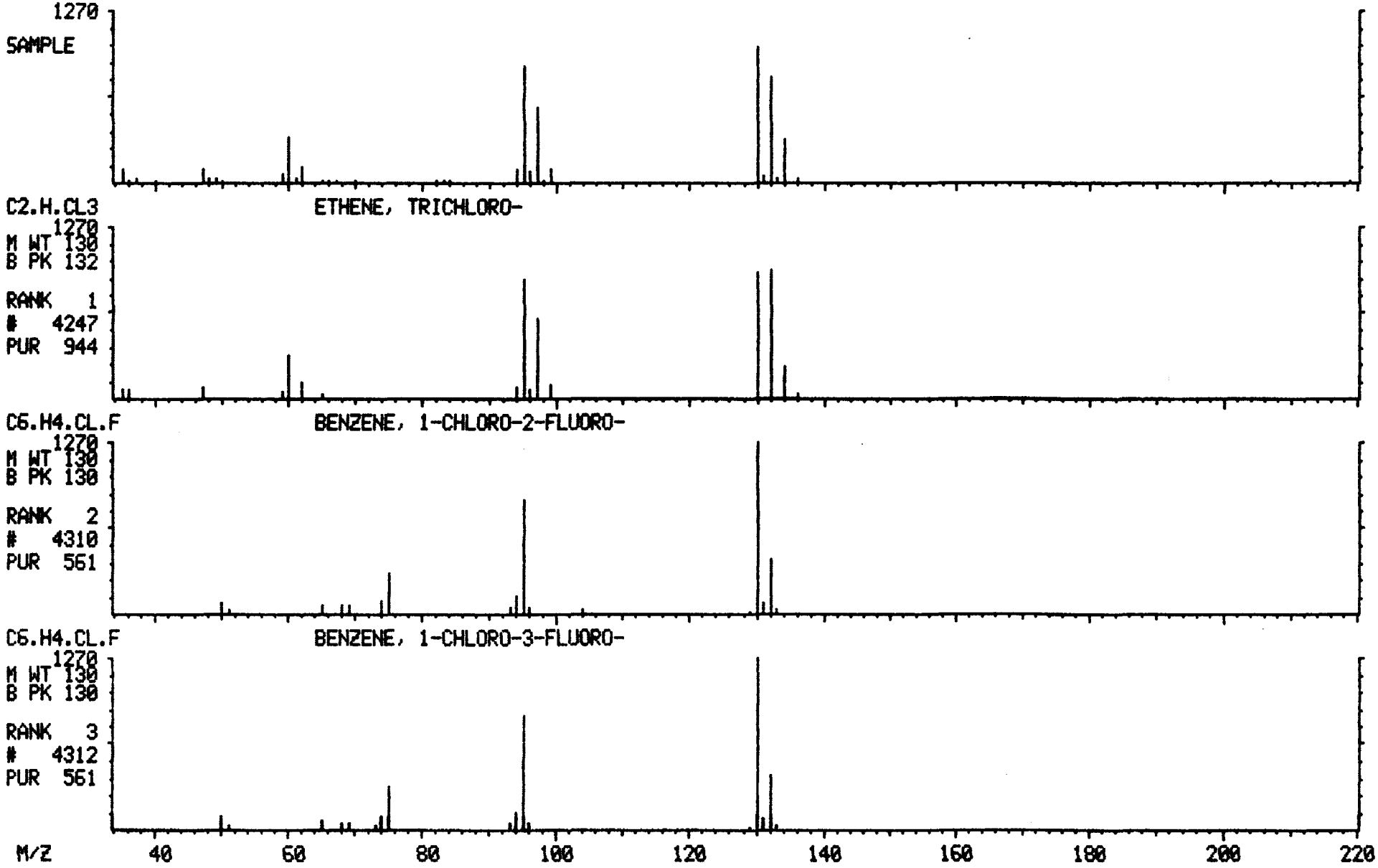
BASE M/Z: 130
RIC: 15008.



MID LIBRARY SEARCH (LIBRARYNB)
07/17/90 19:26:00 + 17:08
SAMPLE: CLP,7262,,90FT20553,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 7262553 # 514
CALI: 7262553 # 1

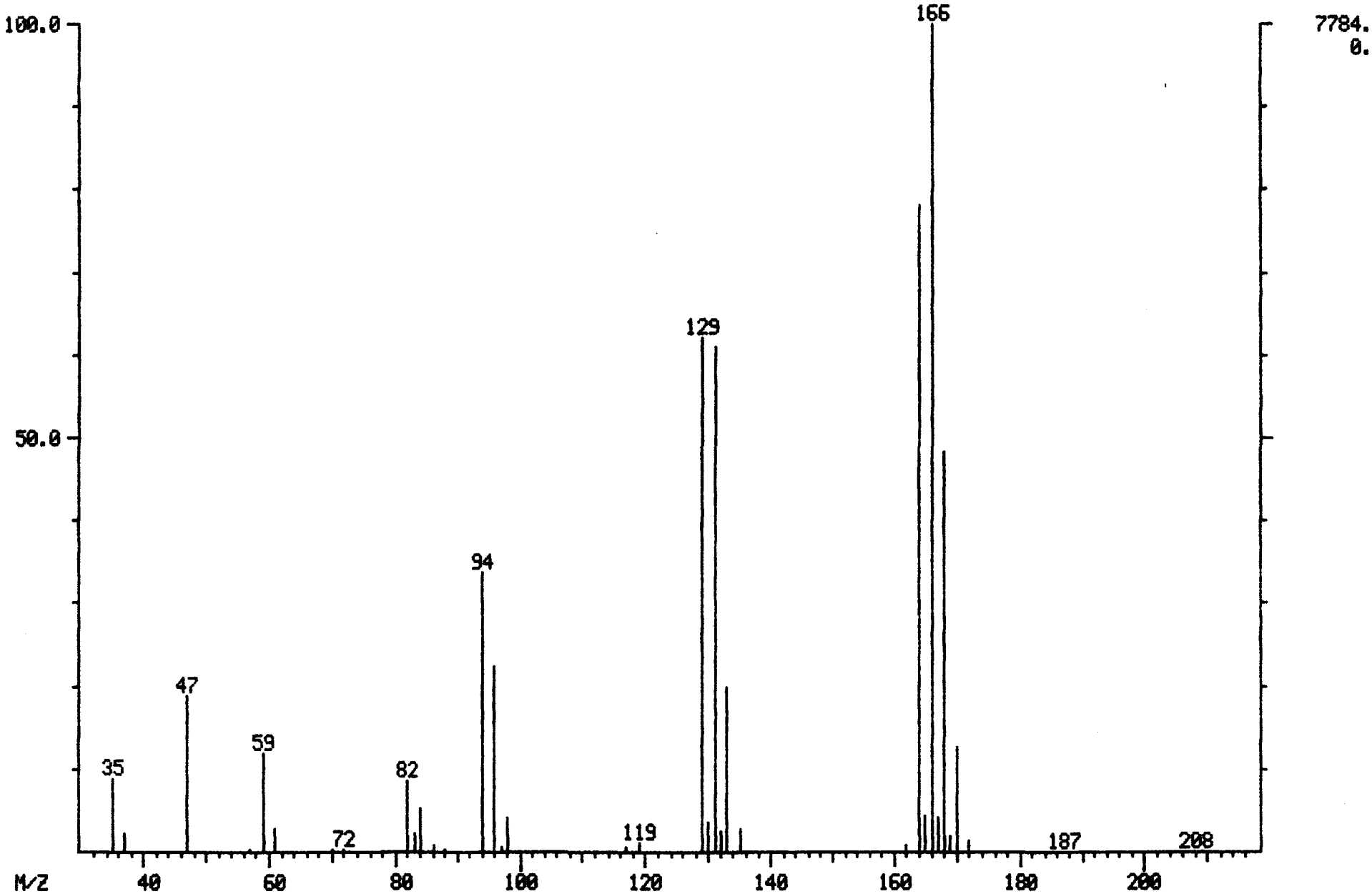
BASE M/Z: 130
RIC: 14928.



MASS SPECTRUM
07/17/90 19:26:00 + 22:48
SAMPLE: CLP,7262,,90FT20553,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'08'/MIN
TEMP: 202 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 7262553 #684
CALI: 7262553 #1

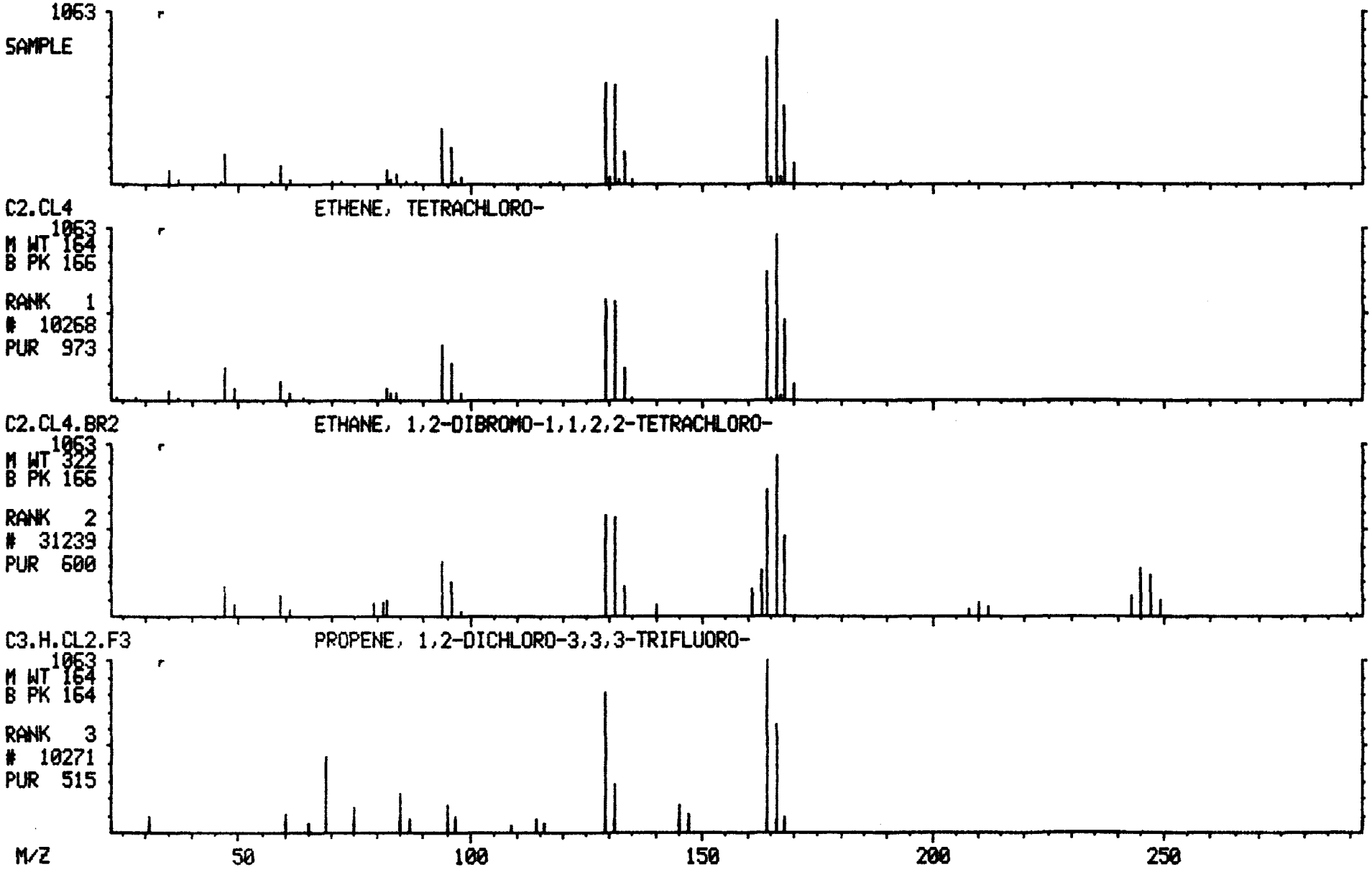
BASE M/Z: 166
RIC: 41280.



MID LIBRARY SEARCH (LIBRARYNB)
07/17/90 19:26:00 + 22:48
SAMPLE: CLP,7262,,90FT20S53,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 7262553 # 684
CALI: 7262553 # 1

BASE M/Z: 166
RIC: 40960.



Quantitation Report File: 7262S53T

Data: 7262S53.TI
07/17/90 19:26:00
Sample: CLP,7262,,90FT20S53,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	UNKNOWN
2	CI20 1,4-DICHLOROBUTANE *INTERNAL STANDARD*

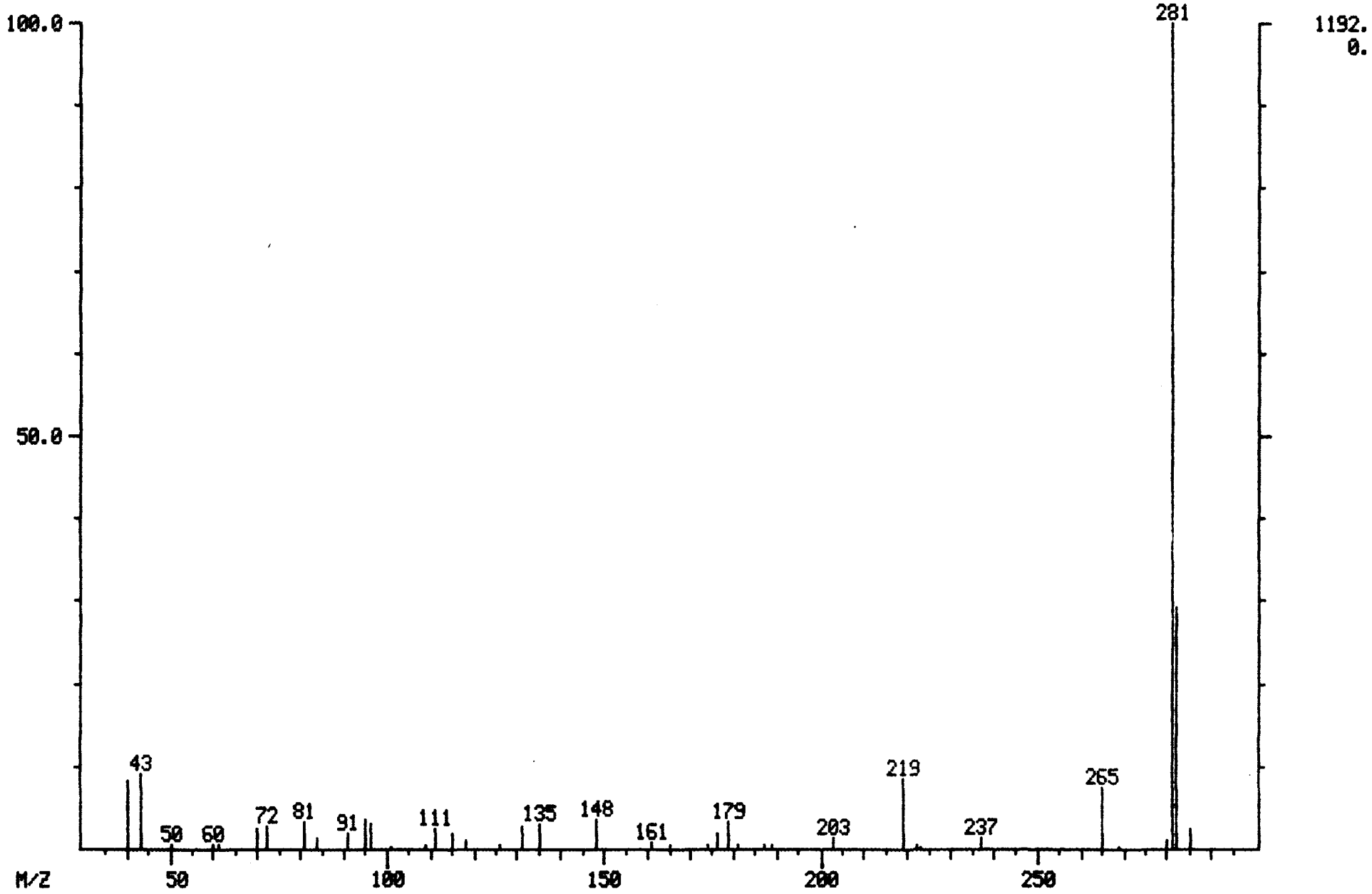
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	RIC	938	31:16	1	1.000	A BB	92512.	100.000		90.91
2	RIC	692	23:04	2	1.000	A BB	77904.	10.000	UG/L	9.09

① $\frac{92512}{77904} \times 10 = 12$ PPB

MASS SPECTRUM
07/17/90 19:26:00 + 31:16
SAMPLE: CLP,7262,,90FT20553,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'08'/MIN
TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 7262553 #938
CALI: 7262553 #1

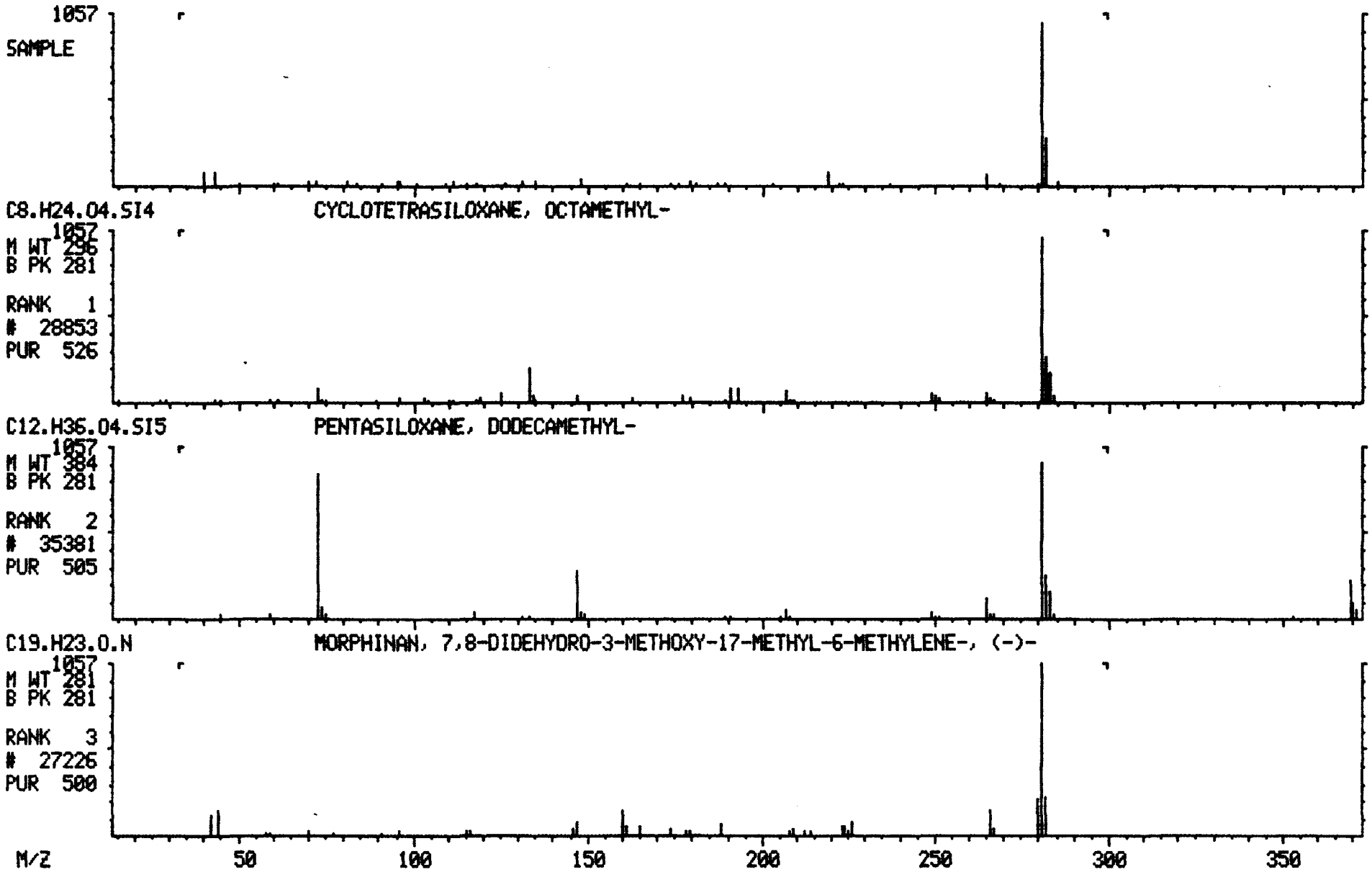
BASE M/Z: 281
RIC: 2568.



MID LIBRARY SEARCH (LIBRARYNB)
07/17/90 19:26:00 + 31:16
SAMPLE: CLP,7262,,90FT20553,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 7262553 # 938
CALI: 7262553 # 1

BASE M/Z: 281
RIC: 2568.



Quantitation Report File: 7262S54

Data: 7262S54.TI
07/17/90 20:10:00
Sample: CLP,7262,,90FT20S54,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

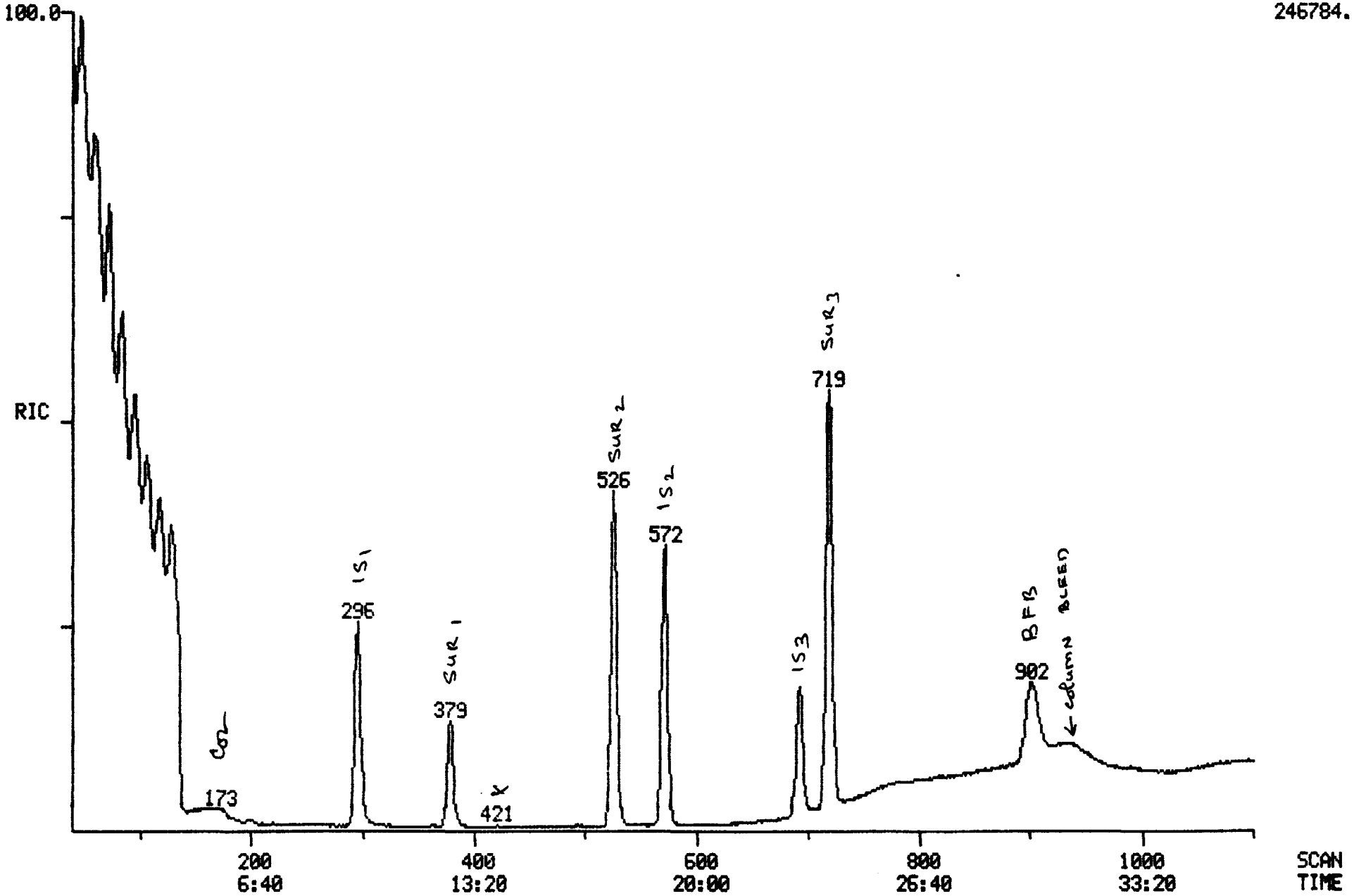
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	296	9:52	1	1.000	A BB	61055.	10.000	UG/L	16.85
2	77	572	19:04	2	1.000	A BB	177086.	10.000	UG/L	16.85
3	55	692	23:04	3	1.000	A BB	90141.	10.000	UG/L	16.85
4	65	379	12:38	1	1.280	A BB	62379.	7.561	UG/L	12.74
5	84	526	17:32	2	0.920	A BB	315519.	10.721	UG/L	18.07
6	98	719	23:58	3	1.039	A BB	297080.	11.048	UG/L	18.62

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.01	1.287	1.00	7.56	10.00	1.022	1.351	0.76
5	17:26	1.01	0.919	1.00	10.72	10.00	1.782	1.662	1.07
6	23:54	1.00	1.038	1.00	11.05	10.00	3.296	2.983	1.10

RIC DATA: 7262S54 #685 SCANS 40 TO 1100
07/17/90 20:10:00 CALI: 7262S54 #1
SAMPLE: CLP,7262,,90FT20S54,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: 7262D54

Data: 7262D54.TI
07/17/90 20:54:00
Sample: CLP,7262,,90FT20D54,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

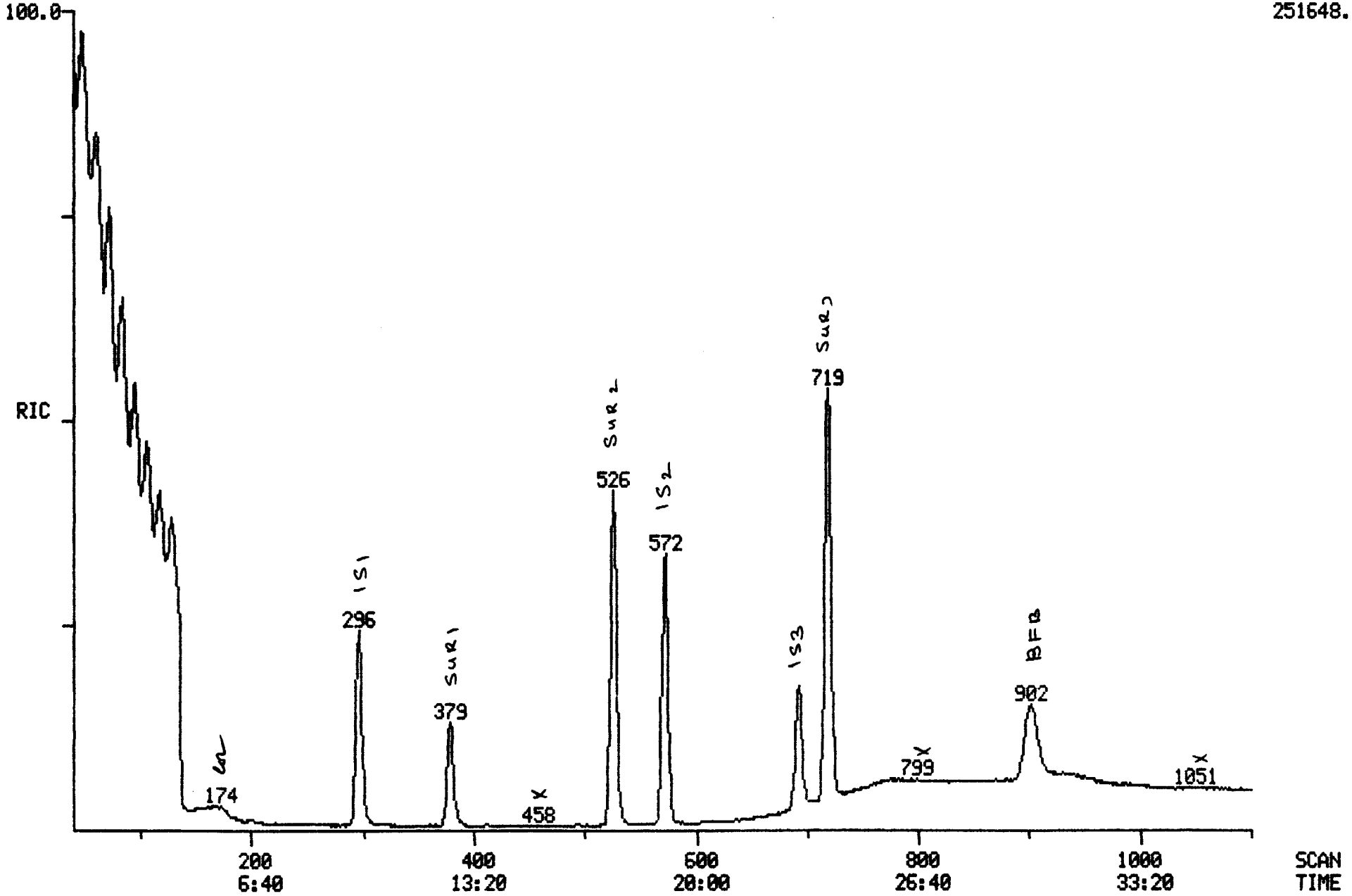
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	296	9:52	1	1.000	A BB	59015.	10.000 UG/L	16.67
2	77	572	19:04	2	1.000	A BB	175668.	10.000 UG/L	16.67
3	55	692	23:04	3	1.000	A BB	90924.	10.000 UG/L	16.67
4	65	379	12:38	1	1.280	A BB	63094.	7.912 UG/L	13.19
5	84	526	17:32	2	0.920	A BB	319387.	10.940 UG/L	18.24
6	98	719	23:58	3	1.039	A BB	301650.	11.121 UG/L	18.54

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.01	1.287	1.00	7.91	10.00	1.069	1.351	0.79
5	17:26	1.01	0.919	1.00	10.94	10.00	1.818	1.662	1.09
6	23:54	1.00	1.038	1.00	11.12	10.00	3.318	2.983	1.11

RIC DATA: 7262D54 #685 SCANS 40 TO 1100
07/17/90 20:54:00 CALI: 7262D54 #1
SAMPLE: CLP,7262,,90FT20D54,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: 7262S53S

Data: 7262S53S.TI
07/17/90 22:23:00
Sample: CLP,7262,,90FT20S53MS,L,W,,V,MS,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C030	METHYLENE CHLORIDE	
8	C045	1,1-DICHLOROETHENE	
9	C053	1,2-DICHLOROETHENE (TOTAL)	
10	C150	TRICHLOROETHENE	
11	C165	BENZENE	
12	C220	TETRACHLOROETHENE	
13	C230	TOLUENE	
14	C235	CHLOROBENZENE	

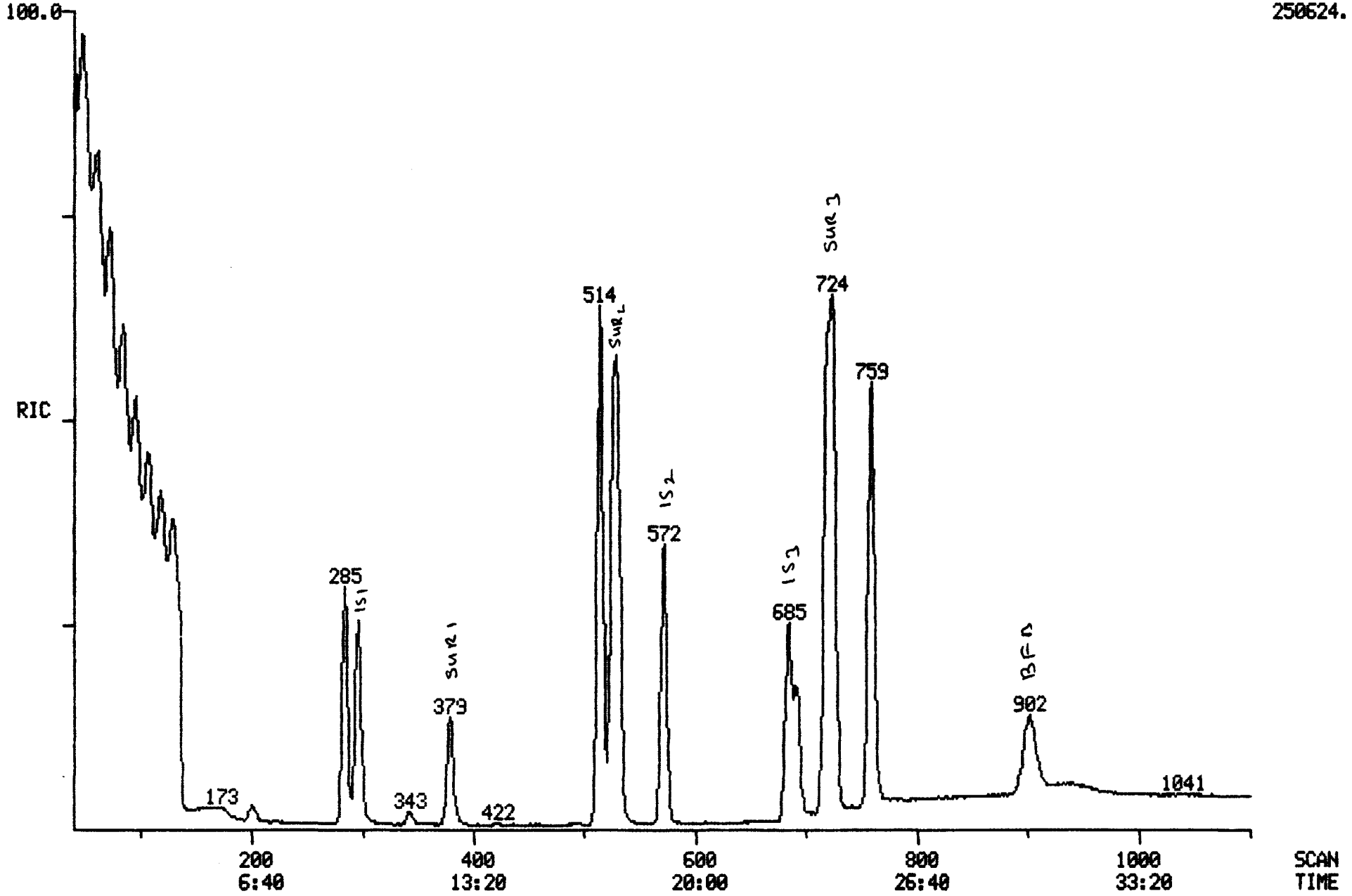
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	296	9:52	1	1.000	A BB	63407.	10.000 UG/L	8.02
2	77	571	19:02	2	1.000	A BB	180835.	10.000 UG/L	8.02
3	55	692	23:04	3	1.000	A BB	93501.	10.000 UG/L	8.02
4	65	379	12:38	1	1.280	A BB	61550.	7.184 UG/L	5.76
5	84	526	17:32	2	0.921	A VB	333235.	11.088 UG/L	8.89
6	98	719	23:58	3	1.039	A BB	317612.	11.387 UG/L	9.13
7	84	201	6:42	1	0.679	A BB	7538.	0.787 UG/L	0.63
8	96	285	9:30	1	0.963	A BB	100789.	9.291 UG/L	7.45
9	96	343	11:26	1	1.159	A BB	6201.	0.540 UG/L	0.43
10	130	514	17:08	2	0.900	A BB	197525.	14.471 UG/L	11.60
11	78	530	17:40	2	0.928	A BB	323517.	11.339 UG/L	9.09
12	164	684	22:48	3	0.988	A BB	59736.	4.315 UG/L	3.46
13	92	724	24:08	3	1.046	A BB	235908.	11.957 UG/L	9.59
14	112	758	25:16	3	1.095	A BB	304467.	12.352 UG/L	9.90

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.01	1.287	1.00	7.18	10.00	0.971	1.351	0.72
5	17:26	1.01	0.919	1.00	11.09	10.00	1.843	1.662	1.11
6	23:54	1.00	1.038	1.00	11.39	10.00	3.397	2.983	1.14
7	6:34	1.02	0.672	1.01	0.79	15.00	0.079	1.510	0.05
8	9:24	1.01	0.962	1.00	9.29	15.00	1.060	1.711	0.62
9	11:22	1.01	1.164	1.00	0.54	15.00	0.065	1.812	0.04
10	17:02	1.01	0.898	1.00	14.47	15.00	0.728	0.755	0.96
11	17:36	1.00	0.928	1.00	11.34	15.00	1.193	1.578	0.76

7262553 S

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
12	22:46	1.00	0.988	1.00	4.31	15.00	0.426	1.481	0.29
13	24:06	1.00	1.046	1.00	11.96	15.00	1.682	2.110	0.80
14	25:16	1.00	1.097	1.00	12.35	15.00	2.171	2.636	0.82

RIC DATA: 7262S53S #685 SCANS 40 TO 1100
07/17/90 22:23:00 CALI: 7262S53S #1
SAMPLE: CLP,7262,,90FT20S53MS,L,W,,V,MS,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: 7262S53D

Data: 7262S53D.TI
07/17/90 23:08:00
Sample: CLP,7262,,90FT20S53MSD,L,W,,V,MSD,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C030	METHYLENE CHLORIDE	
8	C045	1,1-DICHLOROETHENE	
9	C053	1,2-DICHLOROETHENE (TOTAL)	
10	C150	TRICHLOROETHENE	
11	C165	BENZENE	
12	C220	TETRACHLOROETHENE	
13	C230	TOLUENE	
14	C235	CHLOROBENZENE	

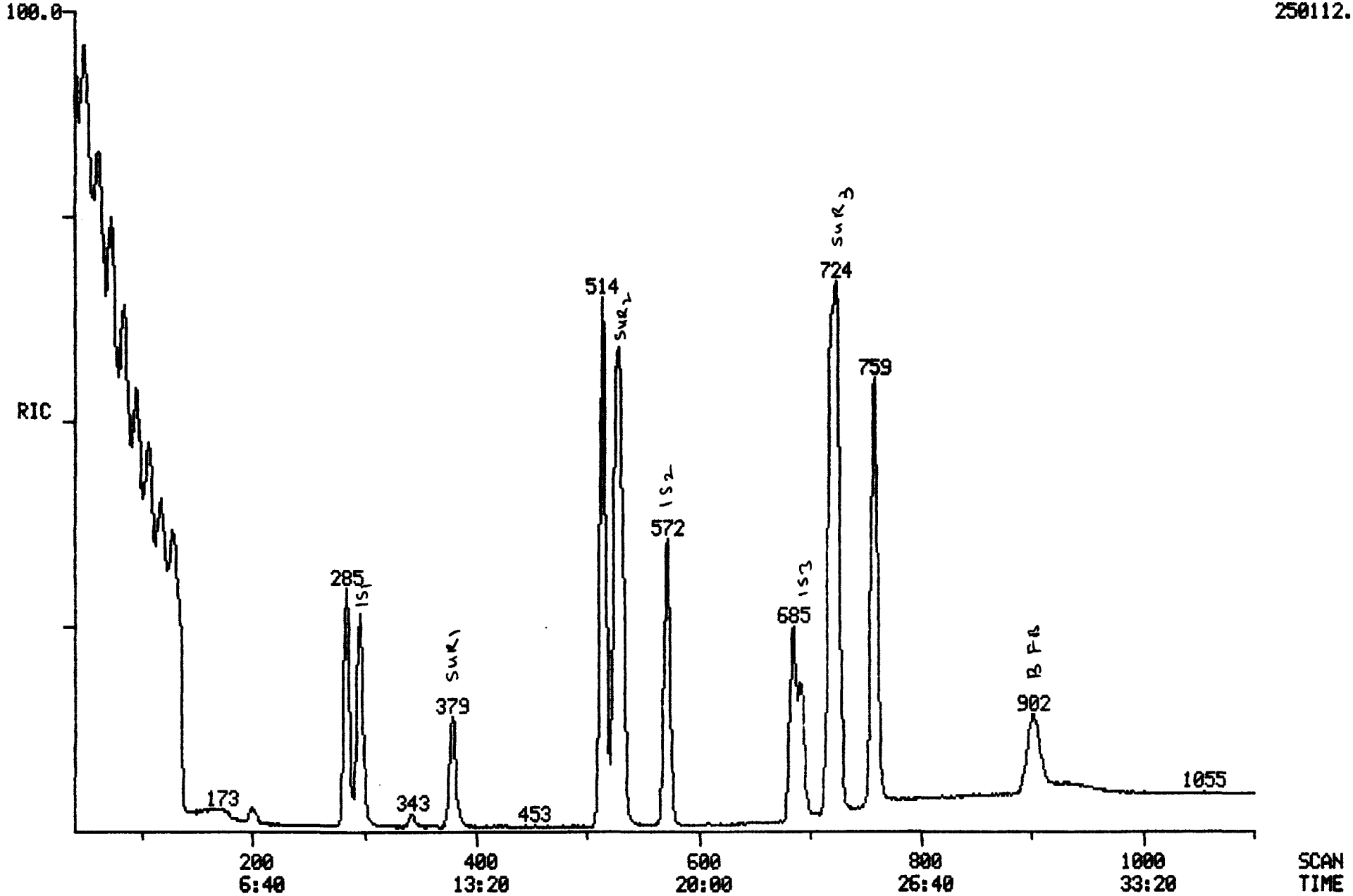
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	296	9:52	1	1.000	A BB	63220.	10.000 UG/L	8.06
2	77	572	19:04	2	1.000	A BB	187643.	10.000 UG/L	8.06
3	55	692	23:04	3	1.000	A BB	95157.	10.000 UG/L	8.06
4	65	379	12:38	1	1.280	A BB	62797.	7.351 UG/L	5.93
5	84	525	17:30	2	0.918	A VB	344319.	11.041 UG/L	8.90
6	98	719	23:58	3	1.039	A BB	324324.	11.425 UG/L	9.21
7	84	201	6:42	1	0.679	A BB	7618.	0.798 UG/L	0.64
8	96	285	9:30	1	0.963	A BB	101294.	9.365 UG/L	7.55
9	96	343	11:26	1	1.159	A BB	5905.	0.515 UG/L	0.42
10	130	514	17:08	2	0.899	A BB	200837.	14.180 UG/L	11.43
11	78	530	17:40	2	0.927	A BB	329101.	11.117 UG/L	8.96
12	164	684	22:48	3	0.988	A BB	57841.	4.105 UG/L	3.31
13	92	724	24:08	3	1.046	A BB	238119.	11.859 UG/L	9.56
14	112	758	25:16	3	1.095	A BB	307559.	12.260 UG/L	9.89

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.01	1.287	1.00	7.35	10.00	0.993	1.351	0.74
5	17:26	1.00	0.919	1.00	11.04	10.00	1.835	1.662	1.10
6	23:54	1.00	1.038	1.00	11.43	10.00	3.408	2.983	1.14
7	6:34	1.02	0.672	1.01	0.80	15.00	0.080	1.510	0.05
8	9:24	1.01	0.962	1.00	9.37	15.00	1.068	1.711	0.62
9	11:22	1.01	1.164	1.00	0.52	15.00	0.062	1.812	0.03
10	17:02	1.01	0.898	1.00	14.18	15.00	0.714	0.755	0.95
11	17:36	1.00	0.928	1.00	11.12	15.00	1.169	1.578	0.74

7262553D

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
12	22:46	1.00	0.988	1.00	4.11	15.00	0.405	1.481	0.27
13	24:06	1.00	1.046	1.00	11.86	15.00	1.668	2.110	0.79
14	25:16	1.00	1.097	1.00	12.26	15.00	2.155	2.636	0.82

RIC DATA: 7262S53D #685 SCANS 40 TO 1100
07/17/90 23:08:00 CALI: 7262S53D #1
SAMPLE: CLP,7262,,90FT20553MSD,L,W,,V,MSD,
CONDS.: 45'(3MIN) TO 220'@8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



PROCEDURE: TCA DIAGNOSTIC REPORT 7/17/90 16:21:22
DATA FILE: CC0717A
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	2	1	0	6	6	1	74	VP_IS/VP_SURR
3	3	1	24	12	12	1	82	VP_IS/VP_CMPDS1
3	3	1	24	12	12	1	34	VP_IS/VP_CMPDS2
3	3	1	24	12	12	1	42	VP_IS/VP_CMPDS3
3	3	1	24	14	14	1	366	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 43 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	294	296	296	.	1	978	.	128	296	.	1
2	VP	2	570	571	571	.	1	980	.	77	571	.	1
3	VP	3	-692	693	.	.	.	.	.	55	691	.	1
4	VP	4	377	379	379	.	1	985	.	65	379	.	1
5	VP	5	523	525	526	1	1	968	.	84	526	.	1
6	VP	6	718	719	719	.	1	990	.	98	719	.	1
7	VP	7	51	51	50	-1	1	929	.	50	50	.	1
8	VP	8	82	82	82	.	1	997	.	94	82	.	1
9	VP	9	105	105	105	.	1	931	.	62	105	.	1
10	VP	10	135	136	136	.	1	997	.	64	136	.	1
11	VP	11	199	200	200	.	1	984	.	84	200	.	1
12	VP	12	219	220	220	.	1	874	.	43	220	.	1
13	VP	13	219	220	220	.	1	972	.	56	220	.	1
14	VP	14	246	247	248	1	1	998	.	76	248	.	1
15	VP	15	240	241	240	-1	1	999	.	53	241	1	1
16	VP	16	282	284	284	.	1	966	.	96	284	.	1
17	VP	17	319	321	321	.	1	960	.	63	321	.	1
18	VP	18	342	344	344	.	1	964	.	96	344	.	1
19	VP	19	357	359	359	.	1	953	.	83	359	.	1
20	VP	20	380	382	382	.	1	965	.	62	382	.	1
21	VP	21	379	381	380	-1	1	996	.	72	380	.	1
22	VP	22	419	421	421	.	1	945	.	97	421	.	1
23	VP	23	431	433	433	.	1	916	.	117	433	.	1
24	VP	24	436	438	438	.	1	987	.	43	438	.	1
25	VP	25	445	447	447	.	1	969	.	83	447	.	1
26	VP	26	487	489	489	.	1	978	.	63	489	.	1
27	VP	27	495	497	496	-1	1	967	.	75	496	.	1
28	VP	28	512	514	514	.	1	959	.	130	514	.	1
29	VP	29	529	531	531	.	1	929	.	129	531	.	1
30	VP	30	532	534	534	.	1	987	.	97	534	.	1
31	VP	31	528	530	530	.	1	985	.	78	530	.	1
32	VP	32	532	534	534	.	1	927	.	75	535	1	1
33	VP	33	566	568	568	.	1	989	.	63	568	.	1
34	VP	34	611	612	612	.	1	958	.	173	612	.	1
35	VP	35	626	627	627	.	1	985	.	43	627	.	1
36	VP	36	673	674	674	.	1	953	.	43	675	1	1
37	VP	37	683	683	684	1	1	910	.	164	684	.	1
38	VP	38	682	682	683	1	1	834	.	83	681	-2	1
39	VP	39	724	724	724	.	1	993	.	92	725	1	1
40	VP	40	758	758	759	1	1	985	.	112	759	.	1
41	VP	41	821	820	821	1	1	995	.	106	821	.	1
42	VP	42	944	942	952	10	1	995	.	104	950	-2	1
43	VP	44	966	964	958	-6	1	997	.	106	958	.	1

44 VP 45 997 995 990 -5

Quantitation Report File: CC0717A

Data: CC0717A.TI
07/17/90 15:42:00
Sample: CLP,7262,,CC0717A,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

: :

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	296	9:52	1	1.000	A BB	39578.	10.000	UG/L	0.50
2	77	571	19:02	2	1.000	A BB	144273.	10.000	UG/L	0.50
3	55	691	23:02	3	1.000	A BB	77603.	10.000	UG/L	0.50
4	65	379	12:38	1	1.280	A BB	53482.	11.059	UG/L	0.56
5	84	526	17:32	2	0.921	A VB	239768.	9.659	UG/L	0.49
6	98	719	23:58	3	1.041	A BB	231497.	8.820	UG/L	0.44
7	50	50	1:40	1	0.169	A BB	119633.	22.414	UG/L	1.13
8	94	82	2:44	1	0.277	A BB	145691.	19.062	UG/L	0.96
9	62	105	3:30	1	0.355	A BB	137847.	20.218	UG/L	1.02
10	64	136	4:32	1	0.459	A BB	94727.	19.153	UG/L	0.96
11	84	200	6:40	1	0.676	A BB	89635.	14.200	UG/L	0.71
12	43	220	7:20	1	0.743	A BB	147174.	419.021	UG/L	21.06
13	56	220	7:20	1	0.743	A BB	73345.	391.686	UG/L	19.68
14	76	248	8:16	1	0.838	A BB	232571.	11.614	UG/L	0.58
15	53	241	8:02	1	0.814	A BB	171836.	401.006	UG/L	20.15
16	96	284	9:28	1	0.959	A BB	101569.	14.738	UG/L	0.74
17	63	321	10:42	1	1.084	A BB	190763.	15.340	UG/L	0.77
18	96	344	11:28	1	1.162	A BB	107589.	14.620	UG/L	0.73
19	83	359	11:58	1	1.213	A BB	203485.	15.131	UG/L	0.76
20	62	382	12:44	1	1.291	A BB	87945.	16.702	UG/L	0.84
21	72	380	12:40	2	0.665	A BB	23455.	123.560	UG/L	6.21
22	97	421	14:02	2	0.737	A BB	193607.	15.453	UG/L	0.78
23	117	433	14:26	2	0.758	A VB	173873.	15.767	UG/L	0.79
24	43	438	14:36	2	0.767	A BB	176813.	37.077	UG/L	1.86
25	83	447	14:54	2	0.783	A BB	171759.	15.570	UG/L	0.78
26	63	489	16:18	2	0.856	A BB	123002.	15.701	UG/L	0.79
27	75	496	16:32	2	0.869	A BB	194442.	19.173	UG/L	0.96
28	130	514	17:08	2	0.900	A BB	163351.	14.520	UG/L	0.73
29	129	531	17:42	2	0.930	A BB	132446.	16.147	UG/L	0.81
30	97	534	17:48	2	0.935	A BB	71963.	15.670	UG/L	0.79
31	78	530	17:40	2	0.928	A BB	341433.	14.516	UG/L	0.73
32	75	535	17:50	2	0.937	A BB	79425.	12.600	UG/L	0.63
33	63	568	18:56	2	0.995	A BB	24370.	16.878	UG/L	0.85
34	173	612	20:24	2	1.072	A BB	82699.	15.898	UG/L	0.80
35	43	627	20:54	3	0.907	A BB	62614.	25.742	UG/L	1.29
36	43	675	22:30	3	0.977	A BB	38126.	25.456	UG/L	1.28
37	164	684	22:48	3	0.990	A BB	172352.	12.523	UG/L	0.63
38	83	681	22:42	3	0.986	A BB	74945.	14.458	UG/L	0.73
39	92	725	24:10	3	1.049	A BB	245623.	13.087	UG/L	0.66
40	112	759	25:18	3	1.098	A BB	306866.	13.496	UG/L	0.68
41	106	821	27:22	3	1.188	A BB	158681.	13.031	UG/L	0.65
42	104	950	31:40	3	1.375	A BB	214130.	10.622	UG/L	0.53
43	106	958	31:56	3	1.386	A BB	387972.	26.130	UG/L	1.31
44	106	990	33:00	3	1.433	A BB	463244.	32.343	UG/L	1.63

PROCEDURE: TCA DIAGNOSTIC REPORT 7/17/90 18:34:16
DATA FILE: 0717BLK1
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	2	1	0	6	6	1	66	VP_IS/VP_SURR
3	3	1	0	12	7	1	120	VP_IS/VP_CMPDS1
3	3	1	0	12	4	1	56	VP_IS/VP_CMPDS2
3	3	1	0	12	3	1	0	VP_IS/VP_CMPDS3
3	3	1	0	14	6	2	293	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 13 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	294	296	296	.	1	975	.	128	296	.	1
2	VP	2	570	572	572	.	1	980	.	77	572	.	1
3	VP	3	-692	694	.	.	.	.	.	55	.	.	.
4	VP	4	377	379	379	.	1	989	.	65	379	.	1
5	VP	5	523	525	526	1	1	966	.	84	526	.	1
6	VP	6	718	720	719	-1	1	989	.	98	719	.	1
7	VP	7	51	55	.	.	.	.	.	50	.	.	.
8	VP	8	82	86	.	.	.	.	.	94	85	.	1
9	VP	9	105	109	.	.	.	.	.	62	.	.	.
10	VP	10	135	139	.	.	.	.	.	64	138	.	1
11	VP	11	199	203	201	-2	1	959	.	84	201	.	1
12	VP	12	219	222	.	.	.	.	.	43	222	.	1
13	VP	13	219	222	223	1	1	705	.	56	.	.	.
14	VP	14	246	249	250	1	1	1000	.	76	250	.	1
15	VP	15	240	243	245	2	1	883	.	53	245	.	1
16	VP	16	282	284	.	.	.	.	.	96	285	.	1
17	VP	17	319	321	.	.	.	.	.	63	.	.	.
18	VP	18	342	344	.	.	.	.	.	96	.	.	.
19	VP	19	357	359	.	.	.	.	.	83	358	.	1
20	VP	20	380	382	.	.	.	.	.	62	.	.	.
21	VP	21	379	381	380	-1	1	991	.	72	380	.	1
22	VP	22	419	421	.	.	.	.	.	97	421	.	1
23	VP	23	431	433	.	.	.	.	.	117	.	.	.
24	VP	24	436	438	.	.	.	.	.	43	440	.	1
25	VP	25	445	447	.	.	.	.	.	83	.	.	.
26	VP	26	487	489	.	.	.	.	.	63	.	.	.
27	VP	27	495	497	.	.	.	.	.	75	498	.	1
28	VP	28	512	514	.	.	.	.	.	130	514	.	1
29	VP	29	529	531	.	.	.	.	.	129	.	.	.
30	VP	30	532	534	.	.	.	.	.	97	535	.	1
31	VP	31	528	530	.	.	.	.	.	78	.	.	.
32	VP	32	532	534	.	.	.	.	.	75	.	.	.
33	VP	33	566	568	.	.	.	.	.	63	.	.	.
34	VP	34	611	611	.	.	.	.	.	173	.	.	.
35	VP	35	626	626	628	2	1	977	.	43	628	.	1
36	VP	36	673	673	.	.	.	.	.	43	675	.	1
37	VP	37	683	683	.	.	.	.	.	164	685	.	1
38	VP	38	682	682	.	.	.	.	.	83	682	.	1
39	VP	39	724	723	.	.	.	.	.	92	724	.	1
40	VP	40	758	757	.	.	.	.	.	112	.	.	.
41	VP	41	821	819	.	.	.	.	.	106	.	.	.
42	VP	42	944	940	.	.	.	.	.	104	.	.	.
43	VP	44	966	962	958	-4	1	969	.	106	.	.	.

Quantitation Report File: 0717BLK1

Data: 0717BLK1.TI
07/17/90 17:56:00
Sample: CLP,7262,,0717BLK1,L,W,,V,BLK,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

: :

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	296	9:52	1	1.000	A BB	47579.	10.000	UG/L	20.73
2	77	572	19:04	2	1.000	A BB	147289.	10.000	UG/L	20.73
691 3	NOT FOUND									
4	65	379	12:38	1	1.280	A BB	53601.	8.337	UG/L	17.28
5	84	526	17:32	2	0.920	A BB	265560.	10.849	UG/L	22.49
6	98	719	23:58	3	ISNFD	A BB	247205.	******	UG/L	00.00
7	NOT FOUND									
8	94	85	2:50	1	0.287	A BB	65.	0.007	UG/L	0.02
9	NOT FOUND									
10	64	138	4:36	1	0.466	A BB	33.	0.006	UG/L	0.01
11	84	201	6:42	1	0.679	A BB	2048.	0.285	UG/L	0.59
12	43	222	7:24	1	0.750	A BB	2004.	4.248	UG/L	8.80
13	NOT FOUND									
14	76	250	8:20	1	0.845	A BB	1564.	0.070	UG/L	0.14
15	53	245	8:10	1	0.828	A BV	605.	1.098	UG/L	2.28
16	96	285	9:30	1	0.963	A BB	32.	0.004	UG/L	0.01
17	NOT FOUND									
18	NOT FOUND									
19	83	358	11:56	1	1.209	A BB	52.	0.003	UG/L	0.01
20	NOT FOUND									
21	72	380	12:40	2	0.664	A BB	608.	3.174	UG/L	6.58
22	97	421	14:02	2	0.736	A BB	280.	0.021	UG/L	0.04
23	NOT FOUND									
24	43	440	14:40	2	0.769	A BV	298.	0.062	UG/L	0.13
25	NOT FOUND									
26	NOT FOUND									
27	75	498	16:36	2	0.871	A BB	109.	0.010	UG/L	0.02
28	130	514	17:08	2	0.899	A BB	410.	0.037	UG/L	0.08
29	NOT FOUND									
30	97	535	17:50	2	0.935	A BB	212.	0.043	UG/L	0.09
31	NOT FOUND									
32	NOT FOUND									
33	NOT FOUND									
34	NOT FOUND									
35	43	628	20:56	3	ISNFD	A BB	3202.	******	UG/L	00.00
36	43	675	22:30	3	ISNFD	A BB	3769.	******	UG/L	00.00
37	164	685	22:50	3	ISNFD	A BB	172.	******	UG/L	00.00
38	83	682	22:44	3	ISNFD	A BB	600.	******	UG/L	00.00
39	92	724	24:08	3	ISNFD	A BB	1191.	******	UG/L	00.00
40	NOT FOUND									
41	NOT FOUND									
42	NOT FOUND									
43	NOT FOUND									
44	106	995	33:10	3	ISNFD	A BB	31.	******	UG/L	00.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02		1.000						
4	12:34	1.01	1.287	1.00	8.34	10.00	1.127	1.351	0.83
5	17:26	1.01	0.919	1.00	10.85	10.00	1.803	1.662	1.08
6	23:54	1.00	1.038						
7	1:38		0.167						
8	2:40	1.06	0.273	1.05	0.01	20.00	0.001	1.841	0.00
9	3:26		0.352						
10	4:28	1.03	0.457	1.02	0.01	20.00	0.000	1.197	0.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:34	1.02	0.672	1.01	0.29	15.00	0.029	1.510	0.02
12	7:16	1.02	0.744	1.01	4.25	375.00	0.001	0.099	0.01
13	7:18		0.747						
14	8:10	1.02	0.836	1.01	0.07	12.50	0.026	4.701	0.01
15	7:56	1.03	0.812	1.02	1.10	375.00	0.000	0.116	0.00
16	9:24	1.01	0.962	1.00	0.00	15.00	0.000	1.711	0.00
17	10:36		1.085						
18	11:22		1.164						
19	11:54	1.00	1.218	0.99	0.00	15.00	0.001	3.428	0.00
20	12:38		1.294						
21	12:36	1.01	0.664	1.00	3.17	125.00	0.000	0.013	0.03
22	13:56	1.01	0.735	1.00	0.02	15.00	0.001	0.895	0.00
23	14:20		0.756						
24	14:32	1.01	0.766	1.00	0.06	37.50	0.001	0.327	0.00
25	14:50		0.782						
26	16:12		0.854						
27	16:28	1.01	0.868	1.00	0.01	18.00	0.000	0.749	0.00
28	17:02	1.01	0.898	1.00	0.04	15.00	0.002	0.755	0.00
29	17:38		0.930						
30	17:44	1.01	0.935	1.00	0.04	15.00	0.001	0.333	0.00
31	17:36		0.928						
32	17:46		0.937						
33	18:52		0.995						
34	20:20		1.072						
35	20:50	1.00	0.904						
36	22:26	1.00	0.974						
37	22:46	1.00	0.988						
38	22:40	1.00	0.984						
39	24:06	1.00	1.046						
40	25:16		1.097						
41	27:22		1.188						
42	31:48		1.381						
43	33:14		1.443						
44	33:14	1.00	1.443						

PROCEDURE: TCA DIAGNOSTIC REPORT 7/17/90 19:20:29
DATA FILE: 7262R95
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	2	1	0	6	6	1	66	VP_IS/VP_SURR
3	3	1	0	12	4	1	47	VP_IS/VP_CMPDS1
3	3	1	0	12	4	1	0	VP_IS/VP_CMPDS2
3	3	1	0	12	3	1	0	VP_IS/VP_CMPDS3
3	3	1	0	14	6	4	211	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 10 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT >< ------ CHRO ------- >										
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	294	296	296	.	1	973	.	128	296	.	1
2	VP	2	570	572	572	.	1	978	.	77	571	-1	1
3	VP	3	-692	694	.	.	.	.	.	55	692	.	1
4	VP	4	377	379	379	.	1	984	.	65	379	.	1
5	VP	5	523	525	526	1	1	966	.	84	526	.	1
6	VP	6	718	720	719	-1	1	990	.	98	719	.	1
7	VP	7	51	54	.	.	.	.	.	50	52	.	1
8	VP	8	82	85	.	.	.	.	.	94	.	.	.
9	VP	9	105	108	.	.	.	.	.	62	.	.	.
10	VP	10	135	138	.	.	.	.	.	64	.	.	.
11	VP	11	199	202	.	.	.	.	.	84	200	.	1
12	VP	12	219	222	.	.	.	.	.	43	221	.	1
13	VP	13	219	222	.	.	.	.	.	56	222	.	2
14	VP	14	246	249	249	.	1	918	.	76	249	.	1
15	VP	15	240	243	.	.	.	.	.	53	.	.	.
16	VP	16	282	284	.	.	.	.	.	96	286	.	1
17	VP	17	319	321	.	.	.	.	.	63	.	.	.
18	VP	18	342	344	.	.	.	.	.	96	.	.	.
19	VP	19	357	359	.	.	.	.	.	83	359	.	1
20	VP	20	380	382	.	.	.	.	.	62	.	.	.
21	VP	21	379	381	.	.	.	.	.	72	.	.	.
22	VP	22	419	421	421	.	1	940	.	97	421	.	1
23	VP	23	431	433	.	.	.	.	.	117	.	.	.
24	VP	24	436	438	.	.	.	.	.	43	439	.	1
25	VP	25	445	447	.	.	.	.	.	83	.	.	.
26	VP	26	487	489	.	.	.	.	.	63	.	.	.
27	VP	27	495	497	.	.	.	.	.	75	.	.	.
28	VP	28	512	514	.	.	.	.	.	130	.	.	.
29	VP	29	529	531	.	.	.	.	.	129	.	.	.
30	VP	30	532	534	.	.	.	.	.	97	.	.	.
31	VP	31	528	530	.	.	.	.	.	78	.	.	.
32	VP	32	532	534	.	.	.	.	.	75	.	.	.
33	VP	33	566	568	.	.	.	.	.	63	.	.	.
34	VP	34	611	612	.	.	.	.	.	173	.	.	.
35	VP	35	626	626	.	.	.	.	.	43	.	.	.
36	VP	36	673	673	.	.	.	.	.	43	.	.	.
37	VP	37	683	683	.	.	.	.	.	164	.	.	.
38	VP	38	682	682	.	.	.	.	.	83	.	.	.
39	VP	39	724	723	725	2	1	962	.	92	725	.	1
40	VP	40	758	757	.	.	.	.	.	112	.	.	.
41	VP	41	821	819	.	.	.	.	.	106	820	.	1
42	VP	42	944	941	.	.	.	.	.	104	.	.	.
43	VP	44	966	963	961	-2	2	952	.	106	961	.	1

Quantitation Report File: 7262R95

Data: 7262R95.TI
07/17/90 18:40:00
Sample: CLP,7262,,90FT02R95,L,W,,V,BLK,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	296	9:52	1	1.000	A BB	47848.	10.000	UG/L	15.17
2	77	571	19:02	2	1.000	A BB	146234.	10.000	UG/L	15.17
3	55	692	23:04	3	1.000	A BB	72960.	10.000	UG/L	15.17
4	65	379	12:38	1	1.280	A BB	53577.	8.286	UG/L	12.57
5	84	526	17:32	2	0.921	A BB	268238.	11.037	UG/L	16.74
6	98	719	23:58	3	1.039	A BB	253582.	11.651	UG/L	17.67
7	50	52	1:44	1	0.176	A BB	195.	0.027	UG/L	0.04
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	84	200	6:40	1	0.676	A BB	1394.	0.193	UG/L	0.29
12	43	221	7:22	1	0.747	A BV	1570.	3.309	UG/L	5.02
13	56	222	7:24	1	0.750	A*BB	79.	0.334	UG/L	0.51
14	76	249	8:18	1	0.841	A BB	1467.	0.065	UG/L	0.10
15	NOT FOUND									
16	96	286	9:32	1	0.966	A BB	47.	0.006	UG/L	0.01
17	NOT FOUND									
18	NOT FOUND									
19	83	359	11:58	1	1.213	A BB	943.	0.057	UG/L	0.09
20	NOT FOUND									
21	NOT FOUND									
22	97	421	14:02	2	0.737	A BB	7384.	0.564	UG/L	0.86
23	NOT FOUND									
24	43	439	14:38	2	0.769	A BB	808.	0.169	UG/L	0.26
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	NOT FOUND									
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	NOT FOUND									
34	NOT FOUND									
35	NOT FOUND									
36	NOT FOUND									
37	NOT FOUND									
38	NOT FOUND									
39	92	725	24:10	3	1.048	A BB	2311.	0.150	UG/L	0.23
40	NOT FOUND									
41	106	820	27:20	3	1.185	A BB	41.	0.004	UG/L	0.01
42	NOT FOUND									
43	106	961	32:02	3	1.389	A BB	614.	0.050	UG/L	0.08
44	106	991	33:02	3	1.432	A VB	364.	0.031	UG/L	0.05

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.01	1.287	1.00	8.29	10.00	1.120	1.351	0.83
5	17:26	1.01	0.919	1.00	11.04	10.00	1.834	1.662	1.10
6	23:54	1.00	1.038	1.00	11.65	10.00	3.476	2.983	1.17
7	1:38	1.06	0.167	1.05	0.03	20.00	0.002	1.511	0.00
8	2:40		0.273						
9	3:26		0.352						
10	4:28		0.457						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:34	1.02	0.672	1.00	0.19	15.00	0.019	1.510	0.01
12	7:16	1.01	0.744	1.00	3.31	375.00	0.001	0.099	0.01
13	7:18	1.01	0.747	1.00	0.33	375.00	0.000	0.049	0.00
14	8:10	1.02	0.836	1.01	0.07	12.50	0.025	4.701	0.01
15	7:56		0.812						
16	9:24	1.01	0.962	1.00	0.01	15.00	0.001	1.711	0.00
17	10:36		1.085						
18	11:22		1.164						
19	11:54	1.01	1.218	1.00	0.06	15.00	0.013	3.428	0.00
20	12:38		1.294						
21	12:36		0.664						
22	13:56	1.01	0.735	1.00	0.56	15.00	0.034	0.895	0.04
23	14:20		0.756						
24	14:32	1.01	0.766	1.00	0.17	37.50	0.001	0.327	0.00
25	14:50		0.782						
26	16:12		0.854						
27	16:28		0.868						
28	17:02		0.898						
29	17:38		0.930						
30	17:44		0.935						
31	17:36		0.928						
32	17:46		0.937						
33	18:52		0.995						
34	20:20		1.072						
35	20:50		0.904						
36	22:26		0.974						
37	22:46		0.988						
38	22:40		0.984						
39	24:06	1.00	1.046	1.00	0.15	15.00	0.021	2.110	0.01
40	25:16		1.097						
41	27:22	1.00	1.188	1.00	0.00	15.00	0.000	1.363	0.00
42	31:48		1.381						
43	33:14	0.96	1.443	0.96	0.05	30.00	0.003	1.666	0.00
44	33:14	0.99	1.443	0.99	0.03	37.60	0.001	1.588	0.00

PROCEDURE: TCA DIAGNOSTIC REPORT 7/17/90 20:04:28
DATA FILE: 7262S53
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	2	1	0	6	6	1	66	VP_IS/VP_SURR
3	3	1	0	12	5	1	47	VP_IS/VP_CMPDS1
3	3	1	0	12	4	1	54	VP_IS/VP_CMPDS2
3	3	1	0	12	4	1	0	VP_IS/VP_CMPDS3
3	3	1	0	14	5	4	236	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 11 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	294	296	296	.	1	969	.	128	296	.	1
2	VP	2	570	572	572	.	1	977	.	77	571	-1	1
3	VP	3	-692	694	.	.	.	.	.	55	.	.	.
4	VP	4	377	379	379	.	1	988	.	65	379	.	1
5	VP	5	523	525	526	1	1	964	.	84	525	-1	1
6	VP	6	718	720	719	-1	1	988	.	98	719	.	1
7	VP	7	51	53	.	.	.	.	.	50	.	.	.
8	VP	8	82	84	.	.	.	.	.	94	.	.	.
9	VP	9	105	107	.	.	.	.	.	62	.	.	.
10	VP	10	135	137	.	.	.	.	.	64	.	.	.
11	VP	11	199	201	201	.	1	922	.	84	200	-1	1
12	VP	12	219	221	.	.	.	.	.	43	222	.	1
13	VP	13	219	221	.	.	.	.	.	56	.	.	.
14	VP	14	246	248	249	1	1	918	.	76	249	.	1
15	VP	15	240	242	.	.	.	.	.	53	.	.	.
16	VP	16	282	284	.	.	.	.	.	96	.	.	.
17	VP	17	319	321	.	.	.	.	.	63	321	.	1
18	VP	18	342	344	343	-1	1	923	.	96	343	.	1
19	VP	19	357	359	.	.	.	.	.	83	360	.	1
20	VP	20	380	382	.	.	.	.	.	62	382	.	1
21	VP	21	379	381	.	.	.	.	.	72	.	.	.
22	VP	22	419	421	.	.	.	.	.	97	421	.	1
23	VP	23	431	433	.	.	.	.	.	117	.	.	.
24	VP	24	436	438	.	.	.	.	.	43	437	.	1
25	VP	25	445	447	.	.	.	.	.	83	.	.	.
26	VP	26	487	489	.	.	.	.	.	63	.	.	.
27	VP	27	495	497	.	.	.	.	.	75	.	.	.
28	VP	28	512	514	514	.	1	951	.	130	514	.	1
29	VP	29	529	531	.	.	.	.	.	129	.	.	.
30	VP	30	532	534	.	.	.	.	.	97	.	.	.
31	VP	31	528	530	.	.	.	.	.	78	.	.	.
32	VP	32	532	534	.	.	.	.	.	75	.	.	.
33	VP	33	566	568	.	.	.	.	.	63	.	.	.
34	VP	34	611	611	.	.	.	.	.	173	.	.	.
35	VP	35	626	626	.	.	.	.	.	43	.	.	.
36	VP	36	673	672	.	.	.	.	.	43	.	.	.
37	VP	37	683	682	.	.	.	.	.	164	684	.	1
38	VP	38	682	681	.	.	.	.	.	83	.	.	.
39	VP	39	724	723	.	.	.	.	.	92	724	.	1
40	VP	40	758	756	.	.	.	.	.	112	758	.	1
41	VP	41	821	819	.	.	.	.	.	106	821	.	1
42	VP	42	944	940	.	.	.	.	.	104	.	.	.
43	VP	44	966	962	961	-1	2	939	.	106	961	.	1

Quantitation Report File: 7262S53

Data: 7262S53.TI
07/17/90 19:26:00
Sample: CLP,7262,,90FT20S53,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	296	9:52	1	1.000	A BB	53388.	10.000	UG/L	23.48
2	77	571	19:02	2	1.000	A BB	157585.	10.000	UG/L	23.48
3	NOT FOUND									
4	65	379	12:38	1	1.280	A BB	57549.	7.977	UG/L	18.73
5	84	525	17:30	2	0.919	A BB	285742.	10.911	UG/L	25.62
6	98	719	23:58	3	ISNFD	A BB	273829.	******	UG/L	00.00
7	NOT FOUND									
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	84	200	6:40	1	0.676	A BB	1401.	0.174	UG/L	0.41
12	43	222	7:24	1	0.750	A BB	459.	0.867	UG/L	2.04
13	NOT FOUND									
14	76	249	8:18	1	0.841	A BB	421.	0.017	UG/L	0.04
15	NOT FOUND									
16	NOT FOUND									
17	63	321	10:42	1	1.084	A BB	241.	0.014	UG/L	0.03
18	96	343	11:26	1	1.159	A BB	5442.	0.563	UG/L	1.32
19	83	360	12:00	1	1.216	A BB	336.	0.018	UG/L	0.04
20	62	382	12:44	1	1.291	A BB	2948.	0.373	UG/L	0.88
21	NOT FOUND									
22	97	421	14:02	2	0.737	A BB	511.	0.036	UG/L	0.09
23	NOT FOUND									
24	43	437	14:34	2	0.765	A BB	322.	0.063	UG/L	0.15
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	130	514	17:08	2	0.900	A BB	18886.	1.588	UG/L	3.73
29	NOT FOUND									
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	NOT FOUND									
34	NOT FOUND									
35	NOT FOUND									
36	NOT FOUND									
37	164	684	22:48	3	ISNFD	A BB	48255.	******	UG/L	00.00
38	NOT FOUND									
39	92	724	24:08	3	ISNFD	A BB	1289.	******	UG/L	00.00
40	112	758	25:16	3	ISNFD	A BV	137.	******	UG/L	00.00
41	106	821	27:22	3	ISNFD	A BB	30.	******	UG/L	00.00
42	NOT FOUND									
43	106	961	32:02	3	ISNFD	A BB	126.	******	UG/L	00.00
44	106	991	33:02	3	ISNFD	A BB	32.	******	UG/L	00.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02		1.000						
4	12:34	1.01	1.287	1.00	7.98	10.00	1.078	1.351	0.80
5	17:26	1.00	0.919	1.00	10.91	10.00	1.813	1.662	1.09
6	23:54	1.00	1.038						
7	1:38		0.167						
8	2:40		0.273						
9	3:26		0.352						
10	4:28		0.457						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:34	1.02	0.672	1.00	0.17	15.00	0.017	1.510	0.01
12	7:16	1.02	0.744	1.01	0.87	375.00	0.000	0.099	0.00
13	7:18		0.747						
14	8:10	1.02	0.836	1.01	0.02	12.50	0.006	4.701	0.00
15	7:56		0.812						
16	9:24		0.962						
17	10:36	1.01	1.085	1.00	0.01	15.00	0.003	3.213	0.00
18	11:22	1.01	1.164	1.00	0.56	15.00	0.068	1.812	0.04
19	11:54	1.01	1.218	1.00	0.02	15.00	0.004	3.428	0.00
20	12:38	1.01	1.294	1.00	0.37	15.00	0.037	1.481	0.02
21	12:36		0.664						
22	13:56	1.01	0.735	1.00	0.04	15.00	0.002	0.895	0.00
23	14:20		0.756						
24	14:32	1.00	0.766	1.00	0.06	37.50	0.001	0.327	0.00
25	14:50		0.782						
26	16:12		0.854						
27	16:28		0.868						
28	17:02	1.01	0.898	1.00	1.59	15.00	0.080	0.755	0.11
29	17:38		0.930						
30	17:44		0.935						
31	17:36		0.928						
32	17:46		0.937						
33	18:52		0.995						
34	20:20		1.072						
35	20:50		0.904						
36	22:26		0.974						
37	22:46	1.00	0.988						
38	22:40		0.984						
39	24:06	1.00	1.046						
40	25:16	1.00	1.097						
41	27:22	1.00	1.188						
42	31:48		1.381						
43	33:14	0.96	1.443						
44	33:14	0.99	1.443						

PROCEDURE: TCA DIAGNOSTIC REPORT 7/17/90 20:48:36
DATA FILE: 7262S54
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	2	1	0	6	6	1	66	VP_IS/VP_SURR
3	3	1	0	12	5	2	44	VP_IS/VP_CMPDS1
3	3	1	0	12	3	1	0	VP_IS/VP_CMPDS2
3	3	1	0	12	3	1	0	VP_IS/VP_CMPDS3
3	3	1	0	14	5	2	210	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 9 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT >< ------ CHRO ------- >										
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	294	296	296	.	1	970	.	128	296	.	1
2	VP	2	570	572	572	.	1	975	.	77	572	.	1
3	VP	3	-692	694	.	.	.	.	.	55	692	.	1
4	VP	4	377	379	379	.	1	983	.	65	379	.	1
5	VP	5	523	525	526	1	1	966	.	84	526	.	1
6	VP	6	718	720	719	-1	1	991	.	98	719	.	1
7	VP	7	51	52	.	.	.	.	.	50	.	.	.
8	VP	8	82	83	.	.	.	.	.	94	.	.	.
9	VP	9	105	106	.	.	.	.	.	62	.	.	.
10	VP	10	135	137	.	.	.	.	.	64	.	.	.
11	VP	11	199	201	200	-1	1	932	.	84	200	.	1
12	VP	12	219	221	.	.	.	.	.	43	223	.	1
13	VP	13	219	221	.	.	.	.	.	56	.	.	.
14	VP	14	246	248	248	.	2	921	.	76	.	.	.
15	VP	15	240	242	.	.	.	.	.	53	.	.	.
16	VP	16	282	284	.	.	.	.	.	96	.	.	.
17	VP	17	319	321	.	.	.	.	.	63	.	.	.
18	VP	18	342	344	.	.	.	.	.	96	.	.	.
19	VP	19	357	359	.	.	.	.	.	83	.	.	.
20	VP	20	380	382	.	.	.	.	.	62	.	.	.
21	VP	21	379	381	.	.	.	.	.	72	.	.	.
22	VP	22	419	421	.	.	.	.	.	97	421	.	1
23	VP	23	431	433	.	.	.	.	.	117	.	.	.
24	VP	24	436	438	.	.	.	.	.	43	438	.	1
25	VP	25	445	447	.	.	.	.	.	83	.	.	.
26	VP	26	487	489	.	.	.	.	.	63	.	.	.
27	VP	27	495	497	.	.	.	.	.	75	.	.	.
28	VP	28	512	514	.	.	.	.	.	130	.	.	.
29	VP	29	529	531	.	.	.	.	.	129	.	.	.
30	VP	30	532	534	.	.	.	.	.	97	.	.	.
31	VP	31	528	530	.	.	.	.	.	78	.	.	.
32	VP	32	532	534	.	.	.	.	.	75	.	.	.
33	VP	33	566	568	.	.	.	.	.	63	.	.	.
34	VP	34	611	611	.	.	.	.	.	173	.	.	.
35	VP	35	626	626	.	.	.	.	.	43	.	.	.
36	VP	36	673	673	.	.	.	.	.	43	.	.	.
37	VP	37	683	683	.	.	.	.	.	164	685	.	1
38	VP	38	682	682	.	.	.	.	.	83	.	.	.
39	VP	39	724	723	.	.	.	.	.	92	724	.	1
40	VP	40	758	757	.	.	.	.	.	112	758	.	1
41	VP	41	821	819	.	.	.	.	.	106	820	.	1
42	VP	42	944	941	.	.	.	.	.	104	.	.	.
43	VP	44	966	963	961	-2	1	922	.	106	960	-1	1

Quantitation Report File: 7262S54

Data: 7262S54.TI
07/17/90 20:10:00
Sample: CLP,7262,,90FT20S54,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	296	9:52	1	1.000	A BB	61055.	10.000 UG/L	16.59
2	77	572	19:04	2	1.000	A BB	177086.	10.000 UG/L	16.59
3	55	692	23:04	3	1.000	A BB	90141.	10.000 UG/L	16.59
4	65	379	12:38	1	1.280	A BB	62379.	7.561 UG/L	12.54
5	84	526	17:32	2	0.920	A BB	315519.	10.721 UG/L	17.78
6	98	719	23:58	3	1.039	A BB	297080.	11.048 UG/L	18.33
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	200	6:40	1	0.676	A BB	1636.	0.177 UG/L	0.29
12	43	223	7:26	1	0.753	A BB	343.	0.566 UG/L	0.94
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	97	421	14:02	2	0.736	A BB	410.	0.026 UG/L	0.04
23	NOT FOUND								
24	43	438	14:36	2	0.766	A BV	350.	0.060 UG/L	0.10
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	164	685	22:50	3	0.990	A BB	58.	0.004 UG/L	0.01
38	NOT FOUND								
39	92	724	24:08	3	1.046	A BB	1833.	0.096 UG/L	0.16
40	112	758	25:16	3	1.095	A BB	112.	0.005 UG/L	0.01
41	106	820	27:20	3	1.185	A BB	63.	0.005 UG/L	0.01
42	NOT FOUND								
43	106	960	32:00	3	1.387	A BB	344.	0.023 UG/L	0.04
44	106	994	33:08	3	1.436	A BB	100.	0.007 UG/L	0.01

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.01	1.287	1.00	7.56	10.00	1.022	1.351	0.76
5	17:26	1.01	0.919	1.00	10.72	10.00	1.782	1.662	1.07
6	23:54	1.00	1.038	1.00	11.05	10.00	3.296	2.983	1.10
7	1:38		0.167						
8	2:40		0.273						
9	3:26		0.352						
10	4:28		0.457						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:34	1.02	0.672	1.00	0.18	15.00	0.018	1.510	0.01
12	7:16	1.02	0.744	1.01	0.57	375.00	0.000	0.099	0.00
13	7:18		0.747						
14	8:10		0.836						
15	7:56		0.812						
16	9:24		0.962						
17	10:36		1.085						
18	11:22		1.164						
19	11:54		1.218						
20	12:38		1.294						
21	12:36		0.664						
22	13:56	1.01	0.735	1.00	0.03	15.00	0.002	0.895	0.00
23	14:20		0.756						
24	14:32	1.00	0.766	1.00	0.06	37.50	0.001	0.327	0.00
25	14:50		0.782						
26	16:12		0.854						
27	16:28		0.868						
28	17:02		0.898						
29	17:38		0.930						
30	17:44		0.935						
31	17:36		0.928						
32	17:46		0.937						
33	18:52		0.995						
34	20:20		1.072						
35	20:50		0.904						
36	22:26		0.974						
37	22:46	1.00	0.988	1.00	0.00	15.00	0.000	1.481	0.00
38	22:40		0.984						
39	24:06	1.00	1.046	1.00	0.10	15.00	0.014	2.110	0.01
40	25:16	1.00	1.097	1.00	0.00	15.00	0.001	2.636	0.00
41	27:22	1.00	1.188	1.00	0.01	15.00	0.000	1.363	0.00
42	31:48		1.381						
43	33:14	0.96	1.443	0.96	0.02	30.00	0.001	1.666	0.00
44	33:14	1.00	1.443	1.00	0.01	37.60	0.000	1.588	0.00

PROCEDURE: TCA DIAGNOSTIC REPORT 7/17/90 21:32:56
DATA FILE: 7262D54
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	2	1	0	6	6	1	66	VP_IS/VP_SURR
3	3	1	0	12	4	1	95	VP_IS/VP_CMPDS1
3	3	1	0	12	3	1	0	VP_IS/VP_CMPDS2
3	3	1	0	12	3	1	0	VP_IS/VP_CMPDS3
3	3	1	0	14	5	9	269	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 8 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	294	296	296	.	1	968	.	128	296	.	1
2	VP	2	570	572	572	.	1	975	.	77	572	.	1
3	VP	3	-692	694	.	.	.	.	.	55	692	.	1
4	VP	4	377	379	379	.	1	982	.	65	379	.	1
5	VP	5	523	525	526	1	1	966	.	84	526	.	1
6	VP	6	718	720	719	-1	1	991	.	98	719	.	1
7	VP	7	51	55	.	.	.	.	.	50	56	.	1
8	VP	8	82	86	.	.	.	.	.	94	.	.	.
9	VP	9	105	109	.	.	.	.	.	62	.	.	.
10	VP	10	135	138	.	.	.	.	.	64	.	.	.
11	VP	11	199	202	.	.	.	.	.	84	201	.	1
12	VP	12	219	222	.	.	.	.	.	43	222	.	1
13	VP	13	219	222	.	.	.	.	.	56	.	.	.
14	VP	14	246	249	250	1	1	914	.	76	250	.	1
15	VP	15	240	243	.	.	.	.	.	53	.	.	.
16	VP	16	282	284	.	.	.	.	.	96	.	.	.
17	VP	17	319	321	.	.	.	.	.	63	.	.	.
18	VP	18	342	344	.	.	.	.	.	96	.	.	.
19	VP	19	357	359	.	.	.	.	.	83	360	.	1
20	VP	20	380	382	.	.	.	.	.	62	.	.	.
21	VP	21	379	381	.	.	.	.	.	72	.	.	.
22	VP	22	419	421	.	.	.	.	.	97	421	.	1
23	VP	23	431	433	.	.	.	.	.	117	.	.	.
24	VP	24	436	438	.	.	.	.	.	43	438	.	1
25	VP	25	445	447	.	.	.	.	.	83	.	.	.
26	VP	26	487	489	.	.	.	.	.	63	.	.	.
27	VP	27	495	497	.	.	.	.	.	75	.	.	.
28	VP	28	512	514	.	.	.	.	.	130	515	.	1
29	VP	29	529	531	.	.	.	.	.	129	531	.	1
30	VP	30	532	534	.	.	.	.	.	97	.	.	.
31	VP	31	528	530	.	.	.	.	.	78	.	.	.
32	VP	32	532	534	.	.	.	.	.	75	.	.	.
33	VP	33	566	568	.	.	.	.	.	63	.	.	.
34	VP	34	611	611	.	.	.	.	.	173	.	.	.
35	VP	35	626	626	.	.	.	.	.	43	.	.	.
36	VP	36	673	672	.	.	.	.	.	43	.	.	.
37	VP	37	683	682	.	.	.	.	.	164	.	.	.
38	VP	38	682	681	.	.	.	.	.	83	.	.	.
39	VP	39	724	723	.	.	.	.	.	92	725	.	1
40	VP	40	758	756	.	.	.	.	.	112	756	.	1
41	VP	41	821	818	.	.	.	.	.	106	.	.	.
42	VP	42	944	940	.	.	.	.	.	104	.	.	.
43	VP	44	966	961	959	-2	3	947	.	106	959	.	1

Quantitation Report File: 7262D54

Data: 7262D54.TI
07/17/90 20:54:00
Sample: CLP,7262,,90FT20D54,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	296	9:52	1	1.000	A BB	59015.	10.000 UG/L	16.50
2	77	572	19:04	2	1.000	A BB	175668.	10.000 UG/L	16.50
3	55	692	23:04	3	1.000	A BB	90924.	10.000 UG/L	16.50
4	65	379	12:38	1	1.280	A BB	63094.	7.912 UG/L	13.05
5	84	526	17:32	2	0.920	A BB	319387.	10.940 UG/L	18.05
6	98	719	23:58	3	1.039	A BB	301650.	11.121 UG/L	18.35
7	50	56	1:52	1	0.189	A BB	32.	0.004 UG/L	0.01
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	201	6:42	1	0.679	A BB	1596.	0.179 UG/L	0.30
12	43	222	7:24	1	0.750	A BB	152.	0.259 UG/L	0.43
13	NOT FOUND								
14	76	250	8:20	1	0.845	A BB	445.	0.016 UG/L	0.03
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	83	360	12:00	1	1.216	A BB	35.	0.002 UG/L	0.00
20	NOT FOUND								
21	NOT FOUND								
22	97	421	14:02	2	0.736	A BB	255.	0.016 UG/L	0.03
23	NOT FOUND								
24	43	438	14:36	2	0.766	A BV	223.	0.039 UG/L	0.06
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	130	515	17:10	2	0.900	A BB	71.	0.005 UG/L	0.01
29	129	531	17:42	2	0.928	A BB	43.	0.004 UG/L	0.01
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	92	725	24:10	3	1.048	A BB	1977.	0.103 UG/L	0.17
40	112	756	25:12	3	1.092	A BB	32.	0.001 UG/L	0.00
41	NOT FOUND								
42	NOT FOUND								
43	106	959	31:58	3	1.386	A BB	85.	0.006 UG/L	0.01
44	106	994	33:08	3	1.436	A BB	147.	0.010 UG/L	0.02

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.01	1.287	1.00	7.91	10.00	1.069	1.351	0.79
5	17:26	1.01	0.919	1.00	10.94	10.00	1.818	1.662	1.09
6	23:54	1.00	1.038	1.00	11.12	10.00	3.318	2.983	1.11
7	1:38	1.14	0.167	1.13	0.00	20.00	0.000	1.511	0.00
8	2:40		0.273						
9	3:26		0.352						
10	4:28		0.457						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:34	1.02	0.672	1.01	0.18	15.00	0.018	1.510	0.01
12	7:16	1.02	0.744	1.01	0.26	375.00	0.000	0.099	0.00
13	7:18		0.747						
14	8:10	1.02	0.836	1.01	0.02	12.50	0.006	4.701	0.00
15	7:56		0.812						
16	9:24		0.962						
17	10:36		1.085						
18	11:22		1.164						
19	11:54	1.01	1.218	1.00	0.00	15.00	0.000	3.428	0.00
20	12:38		1.294						
21	12:36		0.664						
22	13:56	1.01	0.735	1.00	0.02	15.00	0.001	0.895	0.00
23	14:20		0.756						
24	14:32	1.00	0.766	1.00	0.04	37.50	0.000	0.327	0.00
25	14:50		0.782						
26	16:12		0.854						
27	16:28		0.868						
28	17:02	1.01	0.898	1.00	0.01	15.00	0.000	0.755	0.00
29	17:38	1.00	0.930	1.00	0.00	15.00	0.000	0.612	0.00
30	17:44		0.935						
31	17:36		0.928						
32	17:46		0.937						
33	18:52		0.995						
34	20:20		1.072						
35	20:50		0.904						
36	22:26		0.974						
37	22:46		0.988						
38	22:40		0.984						
39	24:06	1.00	1.046	1.00	0.10	15.00	0.014	2.110	0.01
40	25:16	1.00	1.097	1.00	0.00	15.00	0.000	2.636	0.00
41	27:22		1.188						
42	31:48		1.381						
43	33:14	0.96	1.443	0.96	0.01	30.00	0.000	1.666	0.00
44	33:14	1.00	1.443	1.00	0.01	37.60	0.000	1.588	0.00

PROCEDURE: TCA DIAGNOSTIC REPORT 7/17/90 23:01:56
DATA FILE: 7262S53S
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	2	1	0	6	6	1	66	VP_IS/VP_SURR
3	3	1	0	12	6	1	87	VP_IS/VP_CMPDS1
3	3	1	0	12	5	1	81	VP_IS/VP_CMPDS2
3	3	1	0	12	5	1	0	VP_IS/VP_CMPDS3
3	3	1	0	14	7	6	160	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 16 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT >< ------ CHRO ------- >										
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	294	296	296	.	1	961	.	128	296	.	1
2	VP	2	570	572	572	.	1	972	.	77	571	-1	1
3	VP	3	-692	694	.	.	.	.	.	55	692	.	1
4	VP	4	377	379	379	.	1	983	.	65	379	.	1
5	VP	5	523	525	526	1	1	963	.	84	526	.	1
6	VP	6	718	720	719	-1	1	986	.	98	719	.	1
7	VP	7	51	54	.	.	.	.	.	50	.	.	.
8	VP	8	82	85	.	.	.	.	.	94	.	.	.
9	VP	9	105	108	.	.	.	.	.	62	.	.	.
10	VP	10	135	138	.	.	.	.	.	64	.	.	.
11	VP	11	199	202	201	-1	1	967	.	84	201	.	1
12	VP	12	219	222	.	.	.	.	.	43	221	.	1
13	VP	13	219	222	221	-1	1	705	.	56	223	2	1
14	VP	14	246	248	250	2	1	922	.	76	250	.	1
15	VP	15	240	242	.	.	.	.	.	53	.	.	.
16	VP	16	282	284	285	1	1	954	.	96	285	.	1
17	VP	17	319	321	.	.	.	.	.	63	321	.	1
18	VP	18	342	344	343	-1	1	963	.	96	343	.	1
19	VP	19	357	359	.	.	.	.	.	83	360	.	1
20	VP	20	380	382	.	.	.	.	.	62	382	.	1
21	VP	21	379	381	.	.	.	.	.	72	.	.	.
22	VP	22	419	421	.	.	.	.	.	97	421	.	1
23	VP	23	431	433	.	.	.	.	.	117	.	.	.
24	VP	24	436	438	.	.	.	.	.	43	440	.	1
25	VP	25	445	447	.	.	.	.	.	83	.	.	.
26	VP	26	487	489	.	.	.	.	.	63	487	.	1
27	VP	27	495	497	.	.	.	.	.	75	.	.	.
28	VP	28	512	514	514	.	1	942	.	130	514	.	1
29	VP	29	529	531	.	.	.	.	.	129	.	.	.
30	VP	30	532	534	.	.	.	.	.	97	.	.	.
31	VP	31	528	530	530	.	1	979	.	78	530	.	1
32	VP	32	532	534	.	.	.	.	.	75	.	.	.
33	VP	33	566	568	.	.	.	.	.	63	.	.	.
34	VP	34	611	612	.	.	.	.	.	173	.	.	.
35	VP	35	626	627	.	.	.	.	.	43	.	.	.
36	VP	36	673	674	.	.	.	.	.	43	.	.	.
37	VP	37	683	684	.	.	.	.	.	164	684	.	1
38	VP	38	682	683	.	.	.	.	.	83	685	.	1
39	VP	39	724	724	725	1	1	987	.	92	724	-1	1
40	VP	40	758	758	759	1	1	978	.	112	758	-1	1
41	VP	41	821	821	.	.	.	.	.	106	.	.	.
42	VP	42	944	943	.	.	.	.	.	104	.	.	.
43	VP	44	966	965	962	-3	2	951	.	106	962	.	1

Quantitation Report File: 7262S53S

Data: 7262S53S.TI
07/17/90 22:23:00
Sample: CLP,7262,,90FT20S53MS,L,W,,V,MS,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	296	9:52	1	1.000	A BB	63407.	10.000 UG/L	7.87
2	77	571	19:02	2	1.000	A BB	180835.	10.000 UG/L	7.87
3	55	692	23:04	3	1.000	A BB	93501.	10.000 UG/L	7.87
4	65	379	12:38	1	1.280	A BB	61550.	7.184 UG/L	5.66
5	84	526	17:32	2	0.921	A VB	333235.	11.088 UG/L	8.73
6	98	719	23:58	3	1.039	A BB	317612.	11.387 UG/L	8.97
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	201	6:42	1	0.679	A BB	7538.	0.787 UG/L	0.62
12	43	221	7:22	1	0.747	A BB	575.	0.915 UG/L	0.72
13	56	223	7:26	1	0.753	A BB	186.	0.594 UG/L	0.47
14	76	250	8:20	1	0.845	A BB	431.	0.014 UG/L	0.01
15	NOT FOUND								
16	96	285	9:30	1	0.963	A BB	100789.	9.291 UG/L	7.32
17	63	321	10:42	1	1.084	A BB	344.	0.017 UG/L	0.01
18	96	343	11:26	1	1.159	A BB	6201.	0.540 UG/L	0.42
19	83	360	12:00	1	1.216	A BB	1182.	0.054 UG/L	0.04
20	62	382	12:44	1	1.291	A BB	3478.	0.370 UG/L	0.29
21	NOT FOUND								
22	97	421	14:02	2	0.737	A BB	658.	0.041 UG/L	0.03
23	NOT FOUND								
24	43	440	14:40	2	0.771	A BB	172.	0.029 UG/L	0.02
25	NOT FOUND								
26	63	487	16:14	2	0.853	A BB	44.	0.004 UG/L	0.00
27	NOT FOUND								
28	130	514	17:08	2	0.900	A BB	197525.	14.471 UG/L	11.40
29	NOT FOUND								
30	NOT FOUND								
31	78	530	17:40	2	0.928	A BB	323517.	11.339 UG/L	8.93
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	164	684	22:48	3	0.988	A BB	59736.	4.315 UG/L	3.40
38	83	685	22:50	3	0.990	A BB	1407.	0.234 UG/L	0.18
39	92	724	24:08	3	1.046	A BB	235908.	11.957 UG/L	9.42
40	112	758	25:16	3	1.095	A BB	304467.	12.352 UG/L	9.73
41	NOT FOUND								
42	NOT FOUND								
43	106	962	32:04	3	1.390	A BB	83.	0.005 UG/L	0.00
44	106	996	33:12	3	1.439	A BB	176.	0.012 UG/L	0.01

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.01	1.287	1.00	7.18	10.00	0.971	1.351	0.72
5	17:26	1.01	0.919	1.00	11.09	10.00	1.843	1.662	1.11
6	23:54	1.00	1.038	1.00	11.39	10.00	3.397	2.983	1.14
7	1:38		0.167						
8	2:40		0.273						
9	3:26		0.352						
10	4:28		0.457						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:34	1.02	0.672	1.01	0.79	15.00	0.079	1.510	0.05
12	7:16	1.01	0.744	1.00	0.92	375.00	0.000	0.099	0.00
13	7:18	1.02	0.747	1.01	0.59	375.00	0.000	0.049	0.00
14	8:10	1.02	0.836	1.01	0.01	12.50	0.005	4.701	0.00
15	7:56		0.812						
16	9:24	1.01	0.962	1.00	9.29	15.00	1.060	1.711	0.62
17	10:36	1.01	1.085	1.00	0.02	15.00	0.004	3.213	0.00
18	11:22	1.01	1.164	1.00	0.54	15.00	0.065	1.812	0.04
19	11:54	1.01	1.218	1.00	0.05	15.00	0.012	3.428	0.00
20	12:38	1.01	1.294	1.00	0.37	15.00	0.037	1.481	0.02
21	12:36		0.664						
22	13:56	1.01	0.735	1.00	0.04	15.00	0.002	0.895	0.00
23	14:20		0.756						
24	14:32	1.01	0.766	1.01	0.03	37.50	0.000	0.327	0.00
25	14:50		0.782						
26	16:12	1.00	0.854	1.00	0.00	15.00	0.000	0.568	0.00
27	16:28		0.868						
28	17:02	1.01	0.898	1.00	14.47	15.00	0.728	0.755	0.96
29	17:38		0.930						
30	17:44		0.935						
31	17:36	1.00	0.928	1.00	11.34	15.00	1.193	1.578	0.76
32	17:46		0.937						
33	18:52		0.995						
34	20:20		1.072						
35	20:50		0.904						
36	22:26		0.974						
37	22:46	1.00	0.988	1.00	4.31	15.00	0.426	1.481	0.29
38	22:40	1.01	0.984	1.01	0.23	15.00	0.010	0.644	0.02
39	24:06	1.00	1.046	1.00	11.96	15.00	1.682	2.110	0.80
40	25:16	1.00	1.097	1.00	12.35	15.00	2.171	2.636	0.82
41	27:22		1.188						
42	31:48		1.381						
43	33:14	0.96	1.443	0.96	0.01	30.00	0.000	1.666	0.00
44	33:14	1.00	1.443	1.00	0.01	37.60	0.001	1.588	0.00

PROCEDURE: TCA DIAGNOSTIC REPORT 7/17/90 23:46:22
DATA FILE: 7262S53D
REFERENCE: VP11
NAME LIST: VP INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: VP_IS

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	2	1	0	6	6	1	38	VP_IS/VP_SURR
3	3	1	0	12	5	2	47	VP_IS/VP_CMPDS1
3	3	1	0	12	6	1	70	VP_IS/VP_CMPDS2
3	3	1	0	12	5	1	0	VP_IS/VP_CMPDS3
3	3	1	0	14	7	8	162	VP_IS/VP_CMPDS4

44 COMPOUNDS PROCESSED, 16 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	VP	1	294	296	296	.	1	959	.	128	296	.	1
2	VP	2	570	572	572	.	1	967	.	77	572	.	1
3	VP	3	-692	694	.	.	.	.	.	55	692	.	1
4	VP	4	377	379	379	.	1	980	.	65	379	.	1
5	VP	5	523	525	525	.	1	961	.	84	525	.	1
6	VP	6	718	720	719	-1	1	987	.	98	719	.	1
7	VP	7	51	53	.	.	.	.	.	50	51	.	1
8	VP	8	82	84	.	.	.	.	.	94	.	.	.
9	VP	9	105	107	.	.	.	.	.	62	.	.	.
10	VP	10	135	137	.	.	.	.	.	64	.	.	.
11	VP	11	199	201	201	.	1	965	.	84	201	.	1
12	VP	12	219	221	.	.	.	.	.	43	220	.	1
13	VP	13	219	221	.	.	.	.	.	56	.	.	.
14	VP	14	246	248	249	1	2	991	.	76	249	.	1
15	VP	15	240	242	.	.	.	.	.	53	.	.	.
16	VP	16	282	284	285	1	1	959	.	96	285	.	1
17	VP	17	319	321	.	.	.	.	.	63	321	.	1
18	VP	18	342	344	343	-1	1	918	.	96	343	.	1
19	VP	19	357	359	.	.	.	.	.	83	360	.	1
20	VP	20	380	382	.	.	.	.	.	62	383	.	1
21	VP	21	379	381	381	.	1	923	.	72	.	.	.
22	VP	22	419	421	.	.	.	.	.	97	420	.	1
23	VP	23	431	433	.	.	.	.	.	117	.	.	.
24	VP	24	436	438	.	.	.	.	.	43	439	.	1
25	VP	25	445	447	.	.	.	.	.	83	.	.	.
26	VP	26	487	489	.	.	.	.	.	63	488	.	1
27	VP	27	495	497	.	.	.	.	.	75	.	.	.
28	VP	28	512	514	514	.	1	939	.	130	514	.	1
29	VP	29	529	531	.	.	.	.	.	129	.	.	.
30	VP	30	532	534	.	.	.	.	.	97	.	.	.
31	VP	31	528	530	530	.	1	976	.	78	530	.	1
32	VP	32	532	534	.	.	.	.	.	75	.	.	.
33	VP	33	566	568	.	.	.	.	.	63	.	.	.
34	VP	34	611	612	.	.	.	.	.	173	.	.	.
35	VP	35	626	627	.	.	.	.	.	43	.	.	.
36	VP	36	673	674	.	.	.	.	.	43	.	.	.
37	VP	37	683	683	.	.	.	.	.	164	684	.	1
38	VP	38	682	682	.	.	.	.	.	83	684	.	1
39	VP	39	724	724	725	1	2	988	.	92	724	-1	1
40	VP	40	758	758	759	1	1	978	.	112	758	-1	1
41	VP	41	821	820	.	.	.	.	.	106	821	.	1
42	VP	42	944	942	.	.	.	.	.	104	.	.	.
43	VP	44	966	964	962	-2	2	957	.	106	962	.	2

Quantitation Report File: 7262S53D

Data: 7262S53D.TI
07/17/90 23:08:00
Sample: CLP,7262,,90FT20S53MSD,L,W,,V,MSD,
Conds.: 45'(3MIN) TO 220'@8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: TCJ Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	296	9:52	1	1.000	A BB	63220.	10.000 UG/L	8.00
2	77	572	19:04	2	1.000	A BB	187643.	10.000 UG/L	8.00
3	55	692	23:04	3	1.000	A BB	95157.	10.000 UG/L	8.00
4	65	379	12:38	1	1.280	A BB	62797.	7.351 UG/L	5.88
5	84	525	17:30	2	0.918	A VB	344319.	11.041 UG/L	8.83
6	98	719	23:58	3	1.039	A BB	324324.	11.425 UG/L	9.14
7	50	51	1:42	1	0.172	A BB	55.	0.006 UG/L	0.00
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	84	201	6:42	1	0.679	A BB	7618.	0.798 UG/L	0.64
12	43	220	7:20	1	0.743	A BV	139.	0.221 UG/L	0.18
13	NOT FOUND								
14	76	249	8:18	1	0.841	A BB	1872.	0.063 UG/L	0.05
15	NOT FOUND								
16	96	285	9:30	1	0.963	A BB	101294.	9.365 UG/L	7.49
17	63	321	10:42	1	1.084	A BB	290.	0.014 UG/L	0.01
18	96	343	11:26	1	1.159	A BB	5905.	0.515 UG/L	0.41
19	83	360	12:00	1	1.216	A BB	1172.	0.054 UG/L	0.04
20	62	383	12:46	1	1.294	A BB	3445.	0.368 UG/L	0.29
21	NOT FOUND								
22	97	420	14:00	2	0.734	A BB	492.	0.029 UG/L	0.02
23	NOT FOUND								
24	43	439	14:38	2	0.767	A BB	57.	0.009 UG/L	0.01
25	NOT FOUND								
26	63	488	16:16	2	0.853	A BB	33.	0.003 UG/L	0.00
27	NOT FOUND								
28	130	514	17:08	2	0.899	A BB	200837.	14.180 UG/L	11.34
29	NOT FOUND								
30	NOT FOUND								
31	78	530	17:40	2	0.927	A BB	329101.	11.117 UG/L	8.89
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	164	684	22:48	3	0.988	A BB	57841.	4.105 UG/L	3.28
38	83	684	22:48	3	0.988	A BB	1459.	0.238 UG/L	0.19
39	92	724	24:08	3	1.046	A BB	238119.	11.859 UG/L	9.48
40	112	758	25:16	3	1.095	A BB	307559.	12.260 UG/L	9.80
41	106	821	27:22	3	1.186	A BB	31.	0.002 UG/L	0.00
42	NOT FOUND								
43	106	962	32:04	3	1.390	A*BB	273.	0.017 UG/L	0.01
44	106	994	33:08	3	1.436	A BB	306.	0.020 UG/L	0.02

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:46	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	18:58	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:34	1.01	1.287	1.00	7.35	10.00	0.993	1.351	0.74
5	17:26	1.00	0.919	1.00	11.04	10.00	1.835	1.662	1.10
6	23:54	1.00	1.038	1.00	11.43	10.00	3.408	2.983	1.14
7	1:38	1.04	0.167	1.03	0.01	20.00	0.000	1.511	0.00
8	2:40		0.273						
9	3:26		0.352						
10	4:28		0.457						

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:34	1.02	0.672	1.01	0.80	15.00	0.080	1.510	0.05
12	7:16	1.01	0.744	1.00	0.22	375.00	0.000	0.099	0.00
13	7:18		0.747						
14	8:10	1.02	0.836	1.01	0.06	12.50	0.024	4.701	0.01
15	7:56		0.812						
16	9:24	1.01	0.962	1.00	9.37	15.00	1.068	1.711	0.62
17	10:36	1.01	1.085	1.00	0.01	15.00	0.003	3.213	0.00
18	11:22	1.01	1.164	1.00	0.52	15.00	0.062	1.812	0.03
19	11:54	1.01	1.218	1.00	0.05	15.00	0.012	3.428	0.00
20	12:38	1.01	1.294	1.00	0.37	15.00	0.036	1.481	0.02
21	12:36		0.664						
22	13:56	1.00	0.735	1.00	0.03	15.00	0.002	0.895	0.00
23	14:20		0.756						
24	14:32	1.01	0.766	1.00	0.01	37.50	0.000	0.327	0.00
25	14:50		0.782						
26	16:12	1.00	0.854	1.00	0.00	15.00	0.000	0.568	0.00
27	16:28		0.868						
28	17:02	1.01	0.898	1.00	14.18	15.00	0.714	0.755	0.95
29	17:38		0.930						
30	17:44		0.935						
31	17:36	1.00	0.928	1.00	11.12	15.00	1.169	1.578	0.74
32	17:46		0.937						
33	18:52		0.995						
34	20:20		1.072						
35	20:50		0.904						
36	22:26		0.974						
37	22:46	1.00	0.988	1.00	4.11	15.00	0.405	1.481	0.27
38	22:40	1.01	0.984	1.00	0.24	15.00	0.010	0.644	0.02
39	24:06	1.00	1.046	1.00	11.86	15.00	1.668	2.110	0.79
40	25:16	1.00	1.097	1.00	12.26	15.00	2.155	2.636	0.82
41	27:22	1.00	1.188	1.00	0.00	15.00	0.000	1.363	0.00
42	31:48		1.381						
43	33:14	0.96	1.443	0.96	0.02	30.00	0.001	1.666	0.00
44	33:14	1.00	1.443	1.00	0.02	37.60	0.001	1.588	0.00