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

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

___ Resolution / Contrast

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

Cooler #250

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: FIL0020
PROJECT NAME: FOS-9001-056 13693
SAMPLERS: (Signature) Jed Nehikoon

Supply 7035

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	1l ABN/Pest/PCB	40 mL VOA					REMARKS: Tag Numbers	Low Conc. Matrix
90F010539	3/8/90	1015		X	RW2	6	3	3					082055-082060	Drink. Water
90F010089	3/8/90	1015		X	DUP	6	3	3					082063-082068	Drink. Water
90FD10540	3/8/90	0940		X	RW3	6	3	3					082071-082076	Drink. Water
90FD10541	3/8/90	1045		X	RW4	6	3	3					082079-082084	Drink. Water

Lot #s 1l-H9241093

40mL - D9297023

(CRL Tracking Form in Cooler #312)

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jed Nehikoon	3/8/90 1200	William Sayre 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 Sayre Jr	3/9/90 10:37am	Shipped Via Fed. Ex to CRL Airbill - 6454150952 Custody Seals - 120941, 120942	

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

05-03829

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

Cooler #312

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: FIL0020
PROJECT NAME: FOS-9001-056 13693
SAMPLERS: (Signature) Jed Nehikorn

Supplied 7035

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	1 l Metals	1 l Cyanide					REMARKS: Tag Numbers	Low Conc. Matrix
90FD10538	3/8/90	0915		X	RW1 + MSD	TN 4 2	1	1					082053-082054	Drink. Water
90FD10539	3/8/90	1015		X	RW2	2	1	1					082061-082062	Drink. Water
90FD10039	3/8/90	1015		X	DUP	2	1	1					082069-082070	Drink. Water
90FD10540	3/8/90	0940		X	RW3	2	1	1					082077-082078	Drink. Water
90FD10541	3/8/90	1045		X	RW4	2	1	1					082085-082086	Drink. Water
90FD10208	3/8/90	0915		X	BLK	2	1	1					082093-082094	Drink. Water

Lot #15 C9243143 RW1
C9243153 RW2, DUP, RW3
C9244053 RW4, BLK

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jed Nehikorn	3/8/90 1200	William Sayre 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 Sayre Jr	3/9/90 10:37 AM	Shipped Via Fed Ex to CRL Airb. 11-6454150452 Custody Seals - 120443, 120444	

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

05-03830

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

Cooler #138

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
FIL0020	FOS-9001-056

13693

Superfund 7035

SAMPLERS: (Signature) Jed Nehikan

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	1l AGN/Pest/PCB	40 mL VOA				REMARKS Tag Numbers	Low Conc. Matrix
90FD10588	3/8/90	0915		X	RW1+MSD	16	8	8				082037-082052	Drink. Water
90FD10588	3/8/90	0915		X	BLK	6	3	3				082087-082092	Drink. Water
												Lot #s 1l - H9241103	
												40mL - D9297023	
												(CRL Tracking Form in Cooler #312)	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jed Nehikan	3/8/90 1200	William Sayre 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 Sayre Jr	Date / Time 3/9/90 10:37 AM	Remarks Shipped Via Fed Express to CRL Airbill- 6454150452 Custody Seals- 120439, 120440	

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

05- 03828

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

TFA302

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 3/8/90 LAB ARRIVAL DATE 3/9/90 DUE DATE 3/~~29~~ 30/90

DU NUMBER TFA[redacted] DATA SET NUMBER 7039 STUDY Trekker Chemical 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 MET1181	TOTAL METALS WATER SB UG/L MET1201	TOTAL METALS WATER SE UG/L MET1211	TOTAL METALS WATER TL UG/L MET1221
90FD10538	RW1 5-082-053	X	X	X	X	X	X	X
39	RW2 5-082-061	X	X	X	X	X	X	X
40	RW3 5-082-077	X	X	X	X	X	X	X
41	RW4 5-082-085	X	X	X	X	X	X	X
D39	DUP 5-082-069	X	X	X	X	X	X	X
90FD02R08	BLANK 5-082-093	X	X	X	X	X	X	X

SHIPMENT (IS) / IS NOT COMPLETE

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS - NUTRIENTS

TFA302

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE ~~3/5/90~~ TN 3/8/90 LAB ARRIVAL DATE 3/9/90 DUE DATE 3/~~29~~ 30/90

DU NUMBER TFA-[redacted] DATA SET NUMBER 7035 STUDY Tekker Chemical 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
90FD10538	RW1 5-082054		X			
39	RW2 5-082062		X			
40	RW3 5-082078		X			
41	RW4 5-082086		X			
D 39	DUP 5-082070		X			
90FD02R08	BLANK 5-082094		X			

SHIPMENT (IS) / ~~IS NOT~~ Complete

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

TF-A302

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 3/8/90 LAB ARRIVAL DATE 3/9/90 DUE DATE 3/30/90

DU NUMBER TFA-[redacted] DATA SET NUMBER 7035 STUDY Trekker Chemical 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
90FD10538	RW1/MSD 5-082040 41,42,43,44		X	X		
39	RW2 5-082056-57		X	X		
40	RW3 5-082072-73		X	X		
41	RW4 5-082080-81		X	X		
↓ D 39	DUP 5-082064-65		X	X		
90FD02R08	BLANK 5-082089-90		X	X		
		SHIPMENT	(IS) / ~~IS NOT~~	COMPLETE		

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

TFA302

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 3/8/90 LAB ARRIVAL DATE 3/9/90 DUE DATE 3/30/90

DU NUMBER TFA[redacted] DATA SET NUMBER 7035 STUDY Trekker Chemical Co PRIORITY N CONTRACTOR N

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
90FD10S38	RW1/MSD 5-082045-52	X	[redacted]		
39	RW2 5-082058-060	X	[redacted]		
40	RW3 5-082074-076	X	[redacted]		
41	RW4 5-082082-084	X	[redacted]		
D39	DUP 5-082066-68	X	[redacted]		
90FD02R08	BLANK 5-082090-92	X	[redacted]		
		SHIPMENT	(IS) / ~~IS NOT~~	COMPLETE	
90FD10S38	RW1/MSD 5-082037-039		X		
90FD10S39	RW2 5-082055		X		
90FD10D39	DUPLICATE 5-082063		X		
90FD10S40	RW3 5-082071		X		
90FD10S41	RW4 5-082079		X		
90FD02R08	BLANK 5-082087		X		

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

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X Sample tags

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UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: MAR 29 1990

SUBJECT: Review of Region 5 data for Trekker Chemical Co

FROM: Curtis Ross, Director
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF7035
Sample Numbers: 90FD105 38-541, 039 and 90FD02R08 (6)
Parameter(s): VOA/WATER
Laboratory: CRL/WESTON ESAT

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 ~~Steve Parker~~, 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)

TRANSMITTED BY
MAR 29 1990
U.S. EPA CENTRAL
REGIONAL LAB

RECEIVED BY/DATE: _____

DATA SET	SITE	OU/ACT.
SF7035	Tackken chemical co	TFA302

SAMPLES	PARAMETER(S)
90F010538-41, 039, 90F002R08	VOA/WATER

SAMPLED	RECEIVED	DUE	LAB
3/8/90	3/9/90	3/30/90	CRL/WESTON ESAT

SHIPPED	DATA RECEIVED	CONTRACT

TEAM LEADER	SECTION CHIEF	QC COORD.	DATA COORD.
[illegible]			

Comments By Reviewer:

THE DATA ARE ACCEPTABLE FOR USE.

DATA MANAGEMENT COORDINATOR

RECEIVED	TRANSMITTED		CLERICAL SUPPORT RECEIVED	COMPLETED
(✓) REVIEWED	( ) UNREVIEWED	Babu Parucheri TEAM LEADER/DATE 3/26/90		
( ) REVIEWED	( ) UNREVIEWED	SECTION CHIEF/DATE		
( ) REVIEWED	( ) UNREVIEWED	QC COORDINATOR/DATE		

REVIEWED BY CONTRACT COORDINATOR/DATE

RECEIVED	TRANSMITTED	
3/30/90	3/30/90	Griffin DATA MANAGEMENT COORDINATOR

U.S. EPA - REGION V
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

METH BLNK

Study Name: TREKKER CHEMICAL CO. | 2
Data Set: SF7035 Date Received: 03/09/90
Lab File ID: >KH244 Date Analyzed: 3/13/90
Matrix: (soil/water) WATER Dilution Factor: 1.0
Sample wt/vol: 20 mL Level:(low/med) LOW

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q	
74-87-3	Chloromethane	3.	U	
74-83-9	Bromomethane	3.	U	
75-01-4	Vinyl Chloride	3.	U	
75-00-3	Chloroethane	3.	U	
75-09-2	Methylene Chloride	1.	U	X
107-02-8	Acrolein	75.	U	
67-64-1	Acetone	50.	U	
107-13-1	Acrylonitrile	50.	U	
75-15-0	Carbon Disulfide	2.	U	
75-35-4	1,1-Dichloroethene	1.	U	
75-34-3	1,1-Dichloroethane	1.	U	
156-60-5	1,2-Dichloroethene (total)	1.	U	
67-66-3	Chloroform	1.	U	
107-02-2	1,2-Dichloroethane	1.	U	
78-93-3	2-Butanone	20.	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	1.	U	
71-43-2	Benzene	1.	U	
124-48-1	Dibromochloromethane	1.	U	
10061-02-6	trans-1,3-Dichloropropene	1.	U	
79-00-5	1,1,2-Trichloroethane	1.	U	
110-75-8	2-Chloroethyl Vinylether	1.	U	
75-25-2	Bromoform	1.	U	
108-10-1	4-Methyl-2-pentanone	4.	U	
591-78-6	2-Hexanone	4.	U	
127-18-4	Tetrachloroethene	1.	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	Meta Xylene	2.	U	
95-47-6	O-&/or P-Xylene	2.	U	

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

KPH
3/22/90

U.S. EPA - REGION V
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

METH BLNK

Study Name: TRAKKER CHEMICAL CO. | 2
Data Set: SF7035 Date Received: 03/09/90
Lab File ID: >CJ193 Date Analyzed: 3/14/90
Matrix: (soil/water) WATER Dilution Factor: 1.0
Sample wt/vol: 20 mL Level:(low/med) LOW

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q	
74-87-3	Chloromethane	3.	U	
74-83-9	Bromomethane	3.	U	
75-01-4	Vinyl Chloride	3.	U	
75-00-3	Chloroethane	3.	U	
75-09-2	Methylene Chloride	1.	U	
107-02-8	Acrolein	75.	U	
67-64-1	Acetone	50.	U	
107-13-1	Acrylonitrile	50.	U	
75-15-0	Carbon Disulfide	2.	U	
75-35-4	1,1-Dichloroethene	1.	U	
75-34-3	1,1-Dichloroethane	1.	U	
156-60-5	1,2-Dichloroethene (total)	1.	U	
67-66-3	Chloroform	1.	U	
107-02-2	1,2-Dichloroethane	1.	U	
78-93-3	2-Butanone	20.	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	1.	U	
71-43-2	Benzene	1.	U	
124-48-1	Dibromochloromethane	1.	U	
10061-02-6	trans-1,3-Dichloropropene	1.	U	
79-00-5	1,1,2-Trichloroethane	1.	U	
110-75-8	2-Chloroethyl Vinylether	1.	U	X
75-25-2	Bromoform	1.	U	
108-10-1	4-Methyl-2-pentanone	4.	U	
591-78-6	2-Hexanone	4.	U	
127-18-4	Tetrachloroethene	1.	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	Meta Xylene	2.	U	
95-47-6	O-&/or P-Xylene	2.	U	

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

KDH 3/22/90

U.S. EPA - REGION V
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FD02R08

Study Name: TREKKER CHEMICAL CO. | 2
Data Set: SF7035 Date Received: 03/09/90
Lab File ID: >KH245 Date Analyzed: 3/13/90
Matrix: (soil/water) WATER Dilution Factor: 1.0
Sample wt/vol: 20 mL Level:(low/med) LOW

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q	
74-87-3	Chloromethane	3.	U	
74-83-9	Bromomethane	3.	U	
75-01-4	Vinyl Chloride	3.	U	
75-00-3	Chloroethane	3.	U	
75-09-2	Methylene_Chloride	1.	U	X
107-02-8	Acrolein	~~110~~ 75.	U E	KDH
67-64-1	Acetone	50.	U	X
107-13-1	Acrylonitrile	50.	U	
75-15-0	Carbon Disulfide	2.	U	
75-35-4	1,1-Dichloroethene	1.	U	
75-34-3	1,1-Dichloroethane	1.	U	
156-60-5	1,2-Dichloroethene_(total)	1.	U	
67-66-3	Chloroform	1.		
107-02-2	1,2-Dichloroethane	1.	U	
78-93-3	2-Butanone	20.	U	
71-55-6	1,1,1-Trichloroethane	1.	U	
56-23-5	Carbon Tetrachloride	1.	U	
108-05-4	Vinyl Acetate	10.	U	X
75-27-4	Bromodichloromethane	1.	U	X
78-87-5	1,2-Dichloropropane	1.	U	
10061-01-5	cis-1,3-Dichloropropene	1.	U	
79-01-6	Trichloroethene	1.	U	
71-43-2	Benzene	1.	U	
124-48-1	Dibromochloromethane	1.	U	X
10061-02-6	trans-1,3-Dichloropropene	1.	U	
79-00-5	1,1,2-Trichloroethane	1.	U	
110-75-8	2-Chloroethyl_Vinylether	1.	U	X
75-25-2	Bromoform	1.	U	
108-10-1	4-Methyl-2-pentanone	4.	U	
591-78-6	2-Hexanone	4.	U	
127-18-4	Tetrachloroethene	1.	U	
79-34-5	1,1,2,2-Tetrachloroethane	1.	U	
108-88-3	Toluene	1.	U	X
108-90-7	Chlorobenzene	1.	U	
100-41-4	Ethylbenzene	1.	U	
100-42-5	Styrene	2.	U	
108-38-3	Meta Xylene	2.	U	
95-47-6	O-&/or P-Xylene	2.	U	

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

KDH
3/22/90

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

90FD02R08

Lab Name: TREKKER CHEMICAL CO. Contract: ESAT

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TFA302 SDG No.: ------

Matrix: (soil/water) WATER Lab Sample ID: 90FD02R08

Sample wt/vol: 20 (g/mL) mL Lab File ID: >KH245

Level: (low/med) LOW Date Received: 03/09/90

Date Analyzed: 03/13/90

Dilution Factor: 1.00000

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unkown alkane	6.80	6.	J
2.	Unkown	15.52	1.	J
3.	unknown alkene	8.12	3.	J
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

KDH 3/26/90

U.S. EPA - REGION V
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
90FD10S38

Study Name: TRAKKER CHEMICAL CO. | 2
Data Set: SF7035 Date Received: 03/09/90
Lab File ID: >KH246 Date Analyzed: 3/13/90
Matrix: (soil/water) WATER Dilution Factor: 1.0
Sample wt/vol: 20 mL Level:(low/med) LOW

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q	
74-87-3	Chloromethane	3.	U	
74-83-9	Bromomethane	3.	U	
75-01-4	Vinyl Chloride	3.	U	
75-00-3	Chloroethane	3.	U	
75-09-2	Methylene Chloride	1.	U	X
107-02-8	Acrolein	75.	U	
67-64-1	Acetone	50.	U	
107-13-1	Acrylonitrile	50.	U	
75-15-0	Carbon Disulfide	2.	U	X
75-35-4	1,1-Dichloroethene	1.	U	
75-34-3	1,1-Dichloroethane	1.	U	
156-60-5	1,2-Dichloroethene (total)	1.	U	
67-66-3	Chloroform	1.	U	
107-02-2	1,2-Dichloroethane	1.	U	
78-93-3	2-Butanone	20.	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	1.	U	
71-43-2	Benzene	1.	U	
124-48-1	Dibromochloromethane	1.	U	
10061-02-6	trans-1,3-Dichloropropene	1.	U	
79-00-5	1,1,2-Trichloroethane	1.	U	
110-75-8	2-Chloroethyl Vinylether	1.	U	X
75-25-2	Bromoform	1.	U	
108-10-1	4-Methyl-2-pentanone	4.	U	
591-78-6	2-Hexanone	4.	U	
127-18-4	Tetrachloroethene	1.	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	Meta Xylene	2.	U	
95-47-6	O-&/or P-Xylene	2.	U	

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

KDH
3/22/90

U.S. EPA - REGION V
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
90FD10S39

Study Name: TREKKER CHEMICAL CO. | 2
Data Set: SF7035 Date Received: 03/09/90
Lab File ID: >KH247 Date Analyzed: 3/13/90
Matrix: (soil/water) WATER Dilution Factor: 1.0
Sample wt/vol: 20 mL Level:(low/med) LOW

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q	
74-87-3	Chloromethane	3.	U	X
74-83-9	Bromomethane	3.	U	
75-01-4	Vinyl Chloride	3.	U	
75-00-3	Chloroethane	3.	U	
75-09-2	Methylene Chloride	1.	U	X
107-02-8	Acrolein	75.	U	
67-64-1	Acetone	50.	U	
107-13-1	Acrylonitrile	50.	U	
75-15-0	Carbon Disulfide	2.	U	
75-35-4	1,1-Dichloroethene	1.	U	
75-34-3	1,1-Dichloroethane	1.	U	
156-60-5	1,2-Dichloroethene (total)	1.	U	
67-66-3	Chloroform	1.	U	
107-02-2	1,2-Dichloroethane	1.	U	
78-93-3	2-Butanone	20.	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	1.	U	
71-43-2	Benzene	1.	U	
124-48-1	Dibromochloromethane	1.	U	
10061-02-6	trans-1,3-Dichloropropene	1.	U	
79-00-5	1,1,2-Trichloroethane	1.	U	
110-75-8	2-Chloroethyl Vinylether	1.	U	X
75-25-2	Bromoform	1.	U	
108-10-1	4-Methyl-2-pentanone	4.	U	
591-78-6	2-Hexanone	4.	U	
127-18-4	Tetrachloroethene	1.	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	Meta Xylene	2.	U	
95-47-6	O-&/or P-Xylene	2.	U	

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES NO

KDH
3/22/90

U.S. EPA - REGION V
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FD10D39

Study Name: TRIKKER CHEMICAL CO. | 2
Data Set: SF7035 Date Received: 03/09/90
Lab File ID: >KH248 Date Analyzed: 3/13/90
Matrix: (soil/water) WATER Dilution Factor: 1.0
Sample wt/vol: 20 mL Level:(low/med) LOW

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q	
74-87-3	Chloromethane	3.	U	
74-83-9	Bromomethane	3.	U	
75-01-4	Vinyl Chloride	3.	U	
75-00-3	Chloroethane	3.	U	
75-09-2	Methylene Chloride	1.	U	X
107-02-8	Acrolein	75.	U	
67-64-1	Acetone	50.	U	
107-13-1	Acrylonitrile	50.	U	
75-15-0	Carbon Disulfide	2.	U	X
75-35-4	1,1-Dichloroethene	1.	U	
75-34-3	1,1-Dichloroethane	1.	U	
156-60-5	1,2-Dichloroethene (total)	1.	U	
67-66-3	Chloroform	1.	U	
107-02-2	1,2-Dichloroethane	1.	U	
78-93-3	2-Butanone	20.	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	1.	U	
71-43-2	Benzene	1.	U	
124-48-1	Dibromochloromethane	1.	U	
10061-02-6	trans-1,3-Dichloropropene	1.	U	
79-00-5	1,1,2-Trichloroethane	1.	U	
110-75-8	2-Chloroethyl Vinylether	1.	U	X
75-25-2	Bromoform	1.	U	
108-10-1	4-Methyl-2-pentanone	4.	U	
591-78-6	2-Hexanone	4.	U	
127-18-4	Tetrachloroethene	1.	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	Meta Xylene	2.	U	
95-47-6	O-&/or P-Xylene	2.	U	

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES NO

KDH 3/22/90

U.S. EPA - REGION V
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FD10D39

Study Name: TRAKKER CHEMICAL CO. | 2
Data Set: SF7035 Date Received: 03/09/90
Lab File ID: >KH248 Date Analyzed: 3/13/90
Matrix: (soil/water) WATER Dilution Factor: 1.0
Sample wt/vol: 20 mL Level:(low/med) LOW

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q	
74-87-3	Chloromethane	3.	U	
74-83-9	Bromomethane	3.	U	
75-01-4	Vinyl Chloride	3.	U	
75-00-3	Chloroethane	3.	U	
75-09-2	Methylene Chloride	1.	U	X
107-02-8	Acrolein	75.	U	
67-64-1	Acetone	50.	U	
107-13-1	Acrylonitrile	50.	U	
75-15-0	Carbon Disulfide	2.	U	X
75-35-4	1,1-Dichloroethene	1.	U	
75-34-3	1,1-Dichloroethane	1.	U	
156-60-5	1,2-Dichloroethene (total)	1.	U	
67-66-3	Chloroform	1.	U	
107-02-2	1,2-Dichloroethane	1.	U	
78-93-3	2-Butanone	20.	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	1.	U	
71-43-2	Benzene	1.	U	
124-48-1	Dibromochloromethane	1.	U	
10061-02-6	trans-1,3-Dichloropropene	1.	U	
79-00-5	1,1,2-Trichloroethane	1.	U	
110-75-8	2-Chloroethyl Vinylether	1.	U	X
75-25-2	Bromoform	1.	U	
108-10-1	4-Methyl-2-pentanone	4.	U	
591-78-6	2-Hexanone	4.	U	
127-18-4	Tetrachloroethene	1.	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	Meta Xylene	2.	U	
95-47-6	O-&/or P-Xylene	2.	U	

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES NO

KDH 3/22/90

U.S. EPA - REGION V
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FD10S40

Study Name: TRAKKER CHEMICAL CO. | 2
Data Set: SF7035 Date Received: 03/09/90
Lab File ID: >CJ203 Date Analyzed: 3/14/90
Matrix: (soil/water) WATER Dilution Factor: 1.0
Sample wt/vol: 20 mL Level:(low/med) LOW

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q	
74-87-3	Chloromethane	3.	U	
74-83-9	Bromomethane	3.	U	
75-01-4	Vinyl Chloride	3.	U	
75-00-3	Chloroethane	3.	U	
75-09-2	Methylene Chloride	1.	U	
107-02-8	Acrolein	75.	U	
67-64-1	Acetone	50.	U	
107-13-1	Acrylonitrile	50.	U	
75-15-0	Carbon Disulfide	2.	U	X
75-35-4	1,1-Dichloroethene	1.	U	
75-34-3	1,1-Dichloroethane	1.	U	
156-60-5	1,2-Dichloroethene (total)	1.	U	
67-66-3	Chloroform	1.	U	
107-02-2	1,2-Dichloroethane	1.	U	
78-93-3	2-Butanone	20.	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	1.	U	
71-43-2	Benzene	1.	U	
124-48-1	Dibromochloromethane	1.	U	
10061-02-6	trans-1,3-Dichloropropene	1.	U	
79-00-5	1,1,2-Trichloroethane	1.	U	
110-75-8	2-Chloroethyl Vinylether	1.	U	X
75-25-2	Bromoform	1.	U	
108-10-1	4-Methyl-2-pentanone	4.	U	
591-78-6	2-Hexanone	4.	U	
127-18-4	Tetrachloroethene	1.	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	Meta Xylene	2.	U	
95-47-6	O-&/or P-Xylene	2.	U	

KDH 3/22/90

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES NO

U.S. EPA - REGION V
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
90FD10S41

Study Name: TRAKKER CHEMICAL CO. | 2
Data Set: SF7035 Date Received: 03/09/90
Lab File ID: >KH250 Date Analyzed: 3/13/90
Matrix: (soil/water) WATER Dilution Factor: 1.0
Sample wt/vol: 20 mL Level:(low/med) LOW

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q	
74-87-3	Chloromethane	3.	U	
74-83-9	Bromomethane	3.	U	
75-01-4	Vinyl Chloride	3.	U	
75-00-3	Chloroethane	3.	U	
75-09-2	Methylene Chloride	1.	U	X
107-02-8	Acrolein	75.	U	
67-64-1	Acetone	50.	U	
107-13-1	Acrylonitrile	50.	U	
75-15-0	Carbon Disulfide	2.	U	
75-35-4	1,1-Dichloroethene	1.	U	
75-34-3	1,1-Dichloroethane	1.	U	
156-60-5	1,2-Dichloroethene (total)	1.	U	
67-66-3	Chloroform	1.	U	
107-02-2	1,2-Dichloroethane	1.	U	
78-93-3	2-Butanone	20.	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	1.	U	
71-43-2	Benzene	1.	U	
124-48-1	Dibromochloromethane	1.	U	
10061-02-6	trans-1,3-Dichloropropene	1.	U	
79-00-5	1,1,2-Trichloroethane	1.	U	
110-75-8	2-Chloroethyl Vinylether	1.	U	X
75-25-2	Bromoform	1.	U	
108-10-1	4-Methyl-2-pentanone	4.	U	
591-78-6	2-Hexanone	4.	U	
127-18-4	Tetrachloroethene	1.	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	Meta Xylene	2.	U	
95-47-6	O-&/or P-Xylene	2.	U	

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

KDH
3/22/90

ESAT CONTRACT TID NO: 03-11
TASK NO: 25/3

DATASET CUSTODY TRANSFER FORM

Analytical testing was completed on March 23, 1990 for:

DATASET NO: SF7035 SITE NAME: Trekker chemical Co.

PARAMETER : VOA

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

SAMPLE NUMBERS: 90F010538-541, 039, and 90F002R08

NUMBER OF SAMPLES: 6

ESAT APPROVALS:

Kelly M. Head 3/23/90
(ANALYST DATE)

Jim-Mo Lin 3/23/90
(TEAM LEADER DATE)

(QC COORDINATOR DATE)

D. Kuse 3/23/90
(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.

Kelly M. Head 3/23/90
(DELIVERED BY DATE)

Bob Pawelczyk 3/23/90
(RECEIVED BY DATE)

EPA APPROVALS:

Bob Pawelczyk 3/26/90
(EPA TASK MONITOR DATE)

[✓] Reviewed
[ ] Unreviewed
[✓] Accepted
[ ] Rejected
[X] Returned/ 3/23/90 (Date)

COMMENTS: Patterns: Tech. Quality: 3.0 ; Compliance w/ Schedule: 3.0

Reported a false positive but corrected upon EPA review.

(SECTION CHIEF DATE)

[ ] Reviewed [ ] Unreviewed

(ESAT DPO DATE)

Sylvia Griffing 3/29/90 3/29/90
(DATA COORD'R REC'D TRANSMTD)

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

Date: 03/23/90

To: File

Kelly A. Head

From: Kelly Head

Re: Dataset SF7035 Narrative

Six (6) low level water samples (90FD10S38-S41, D41, and 90FD02R08) for dataset SF7035 were submitted for volatile organic analysis (VOA) for GC/MS utilizing EPA METHOD 624NS.

All samples were analyzed within seven (7) days of the sampling date.

The tunes were acceptable with BFB meeting all QC requirements (FORM 5).

Two initial calibrations were used. The calibration from 3/09/90 reported all compounds below 35%RSD limit (FORM 6). The calibration from 3/14/90 reported two compounds above The 35% limit; methylene chloride (average RF=1.7, %RSD=49.3) and vinyl acetate (average RF=0.31, %RSD=37.9). Two continuing calibrations were used for quantitation. The continuing from 3/13/90 reported all conpounds below the 35% limit. The continuing from 3/14/90 reported a %D for methylene chloride of 49.4 and the RF=2.50. None of these compounds were present in any of these six samples.

All internal standard areas and retention times were within QC limits (FORM 8).

All Surrogate recoveries were within QC limits (FORM 2).

Sample 90FD10S38 was used for the matrix spike and matrix spike duplicate (FORM 3). All percent recoveries and all RPDs were within QC limits.

Two method blanks were purged with the samples. No target compounds or TICs present in these blanks.

One field blank (90FD02R08) was associated with this case. This blank contained acrolein at 100 mcg/L and chloroform at 1mcg/L. Two TICs were present at retention times of 6.80 and 15.52 minutes.

Sample (90FD10S39) and its duplicate (90FD10D39) correlated very well. No target compounds or TICS were detected in either sample.

Sample 90FD10S38,S40, and S41 reported no target compounds or TICs.

TFA302

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH F I T. SUPERFUND SAMPLE DATE 3/8/90 LAB ARRIVAL DATE 3/9/90 DUE DATE 3/30/90

DU NUMBER TFA[redacted] DATA SET NUMBER 7035 STUDY Tackker Chemical Co PRIORITY N CONTRACTOR N

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
90FD10S38	RW1/MSD 5-082045-52	X	X		
39	RW2 5-082058-060	X	X		
40	RW3 5-082074-076	X	X		
41	RW4 5-082082-084	X	X		
D39	DUP 5-082066-68	X	X		
90FD02R08	BLANK 5-082090-92	X	X		
		Kelly B. Head 3/22/90			
		SHIPMENT	(IS) / IS NOT	COMPLETE	
90FD10S38	RW1/MSD 5-082037-039		X		
90FD10S39	RW2 5-082055		X		
90FD10D39	DUPLICATE 5-082063		X		
90FD10S40	RW3 5-082071		X		
90FD10S41	RW4 5-082079		X		
90FD02R08	BLANK 5-082087		X		

ANALYTICAL LABORATOTY
TIME TRACKING RECORD

Task Number: 2513
TID Number: 03-10
SF Number: 7035
Site Name: Tekkker chemical
Assigned To:

Date Assigned: 3/12/90
Date Due: 3/26/90
Estimated Hours: 24 hrs

VOA X BNA ____ Pest/PCBs ____ Other ____

Extraction Record

Person:	Date:	Hours:
Person:	Date:	Hours:
Person:	Date:	Hours:
Person:	Date:	Hours:

Analysis Record

Person:	Date:	Hours:
KOH	3/12	4
↓	3/13	4
↓	3/14	4
↓	3/15	3
↓	3/16	1
	3/19-22	18

QA/QC Record

Person:	Date:	Hours:
DPL	3/23	1
Person:	Date:	Hours:
Person:	Date:	Hours:

LIMS Data Entry

Person:	Date:	Hours:
KOH	3/23/90	.25
Person:	Date:	Hours:

Comments

Total Hours: 35.25

ETM: [signature] 3/23/90

ROY F. WESTON, INC.
C, J ESAT Project
Room 962
536 South Clark Street
Chicago IL 60605
(312)-353-2895

RAW DATA ARCHIVING AND DATASET RECONSTRUCTION FORM

DISK OR TAPE NUMBERS: KT #1

RUN DATE(S): 3/13/90 3/14/90
INST.NO.: #3
ANALYST(S): KDH

SAMPLE SUMMARY MATRIX

DATASET NUMBER:	SE7035				
TASK NUMBER:	2513				
DU/ACTIVITY NO:	CEA302				
PARAMETER:	VOA				
MATRIX:	WATER				
NUMBER SAMPLES:	6				
DATE RECEIVED:	3/8/90				
DATE EXTRACTED:	NA				
NOTBK NO/PG NO:	Clarkson Book				
DATE ASSAYED:	3/12/90				

FILE IDENTIFICATION SUMMARY

TUNING FILE: >CJ184+193 7KH226+240
BLANK FILE: SAMS
RUN SEQUENCE FILE: BACT3F

S-309 JUNK

PRIMARY COLUMN

INITIAL CALIBRATION FILE: 7KH227-31 7CJ188-92
CONTINUING CALIBRATION FILES: 7KH242 7CJ194
STANDARDS FILES: NA
SAMPLE FILES: 7KH244-52
CJ203
ID/METHOD FILES: IDKT30 and IDCJ30
VOA#3

CONFIRMATORY COLUMN

INITIAL CALIBRATION FILE:
CONTINUING CALIBRATION FILES:
STANDARDS FILES:
SAMPLE FILES: N/A
ID/METHOD FILES:

DOC.NO.: ESAT-05-15-FORM
REVISION NO.: NEW
CENTRAL FILE NO.: 5.5.1

2A
U.S. EPA - REGION V
WATER VOLATILE SURROGATE RECOVERY

Study Name:TREKKER CHEMICAL CO. | 25 Data Set:SF7035
KDH 3/22/90

Lab File ID: >KH252::A8 SAS No.: TFA302 SDG No.: -------

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BEN)#	S3 (DCE)#	OTHER	TOT OUT
01	METH BLNK	92	98	102		0
02	90FD02R08	90	98	105		0
03	90FD10S38	89	96	106		0
04	90FD10S39	90	99	106		0
05	90FD10D39	89	97	108		0
06	90FD10S40	87	99	112		0
07	90FD10S41	96	101	109		0
08	90FD10S38M	98	100	107		0
09	90FD10S38D	99	102	108		0
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	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

FORM II VOA-1 1/87 Rev.

2A
U.S. EPA - REGION V
WATER VOLATILE SURROGATE RECOVERY

Study Name: TRAKKER CHEMICAL CO. | 25 Data Set: SF7035
KDH 3/22/90
Lab File ID: >CJ203::A3 SAS No.: TFA302 SDG No.: -------

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BEN)#	S3 (DCE)#	OTHER	TOT OUT
01	METH BLNK	98	93	84		0
02	90FD10S40	108	104	97		0
03						
04						
05						
06						
07						
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	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: TREKKER CHEMICAL CO. Contract: ESAT

KOH 3/22/90

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TFA302 SDG No.: -------

Matrix Spike - EPA Sample No.: 90FD10S38

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	10.00	0.00	10.00	101	61-145
Trichloroethene	10.00	0.00	10.00	102	71-120
Benzene	10.00	0.00	11.00	105	76-127
Toluene	10.00	0.00	11.00	105	76-125
Chlorobenzene	10.00	0.00	11.00	107	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	10.00	9.90	98	3	14	61-145
Trichloroethene	10.00	10.00	99	2	14	71-120
Benzene	10.00	10.00	103	1	11	76-127
Toluene	10.00	10.00	102	2	13	76-125
Chlorobenzene	10.00	11.00	105	1	13	75-130

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

* Values outside of qc limits

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

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Lab Name: TREKKER CHEMICAL CO. Contract: ESAT

KDH 3/22/90

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TFA302 SDG No.: -------

Lab File ID: >KH244 Lab Sample ID: METH BLNK

Date Analyzed: 3/13/90 Time Analyzed: 15:10

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: 87 3

THIS METHOD BLANK APPLIES TO THE FOLLOWING:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	90FD02R08	90FD02R08	>KH245	15:57
02	90FD10S38	90FD10S38	>KH246	16:45
03	90FD10S39	90FD10S39	>KH247	17:32
04	90FD10D39	90FD10D39	>KH248	18:20
05	90FD10S40	90FD10S40	>KH249	19:07
06	90FD10S41	90FD10S41	>KH250	19:54
07	90FD10S38M	90FD10S38M	>KH251	20:42
08	90FD10S38D	90FD10S38D	>KH252	21:29
09				
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COMMENTS: _____

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: TREKKER CHEMICAL CO. Contract: ESAT

KOH 3/22/90

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TFA302 SDG No.: -------

Lab File ID: >CJ193 Lab Sample ID: METH BLNK

Date Analyzed: 3/14/90 Time Analyzed: 14:46

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: 87 3

THIS METHOD BLANK APPLIES TO THE FOLLOWING:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	90FD10S40	90FD10S40	>CJ203	22:40
02				
03				
04				
05				
06				
07				
08				
09				
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11				
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COMMENTS: _____

FORM IV VOA 1/87 Rev

5A

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

Lab Name:TREKKAR CHEMICAL CO. Contract:ESAT

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TFA302 SDG No.: -------

Lab File ID: >KH226 BFB Injection Date: 3/09/90

Instrument ID: 87 3 BFB Injection Time: 9:35

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	16.0
75	30.0 - 60.0% OF MASS 95	41.0
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	56.6
175	5.0 - 9.0% of mass 174	3.7(6.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	55.7(98.4)1
177	5.0 - 9.0% of mass 176	3.8(6.8)2

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

THIS TUNE APPLIES TO THE FOLLOWING:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	>KH228	3/09/90	11:55
02	VSTD010	VSTD010	>KH229	3/09/90	12:42
03	VSTD015	VSTD015	>KH227	3/09/90	10:32
04	VSTD020	VSTD020	>KH230	3/09/90	13:29
05	VSTD025	VSTD025	>KH231	3/09/90	14:17
06	MDL0309	MDL0309	>KH239	3/09/90	21:36
07					
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22					

5A

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

Lab Name: TREKKER CHEMICAL CO. Contract: ESAT

KDH 3/22/90

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TFA302 SDG No.: -------

Lab File ID: >KH240 BFB Injection Date: 3/13/90

Instrument ID: 87 3 BFB Injection Time: 11:08

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	18.4
75	30.0 - 60.0% OF MASS 95	44.0
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	53.1
175	5.0 - 9.0% of mass 174	3.1(5.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	52.1(98.2)1
177	5.0 - 9.0% of mass 176	3.1(5.9)2

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

THIS TUNE APPLIES TO THE FOLLOWING:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD015	VSTD015	>KH242	3/13/90	13:25
02	313BLK2	313BLK2	>KH244	3/13/90	15:10
03	90FD02R08	90FD02R08	>KH245	3/13/90	15:57
04	90FD10S38	90FD10S38	>KH246	3/13/90	16:45
05	90FD10S39	90FD10S39	>KH247	3/13/90	17:32
06	90FD10D39	90FD10D39	>KH248	3/13/90	18:20
07	90FD10S40	90FD10S40	>KH249	3/13/90	19:07
08	90FD10S41	90FD10S41	>KH250	3/13/90	19:54
09	90FD10S38M	90FD10S38M	>KH251	3/13/90	20:42
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5A

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

Lab Name: TRAKKER CHEMICAL CO. Contract: ESAT

KDH 3/22/90

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TFA302 SDG No.: -------

Lab File ID: >CJ184 BFB Injection Date: 3/14/90

Instrument ID: 87 3 BFB Injection Time: 8:06

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	21.5
75	30.0 - 60.0% OF MASS 95	45.4
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	54.2
175	5.0 - 9.0% of mass 174	3.7(6.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	51.9(95.7)1
177	5.0 - 9.0% of mass 176	3.0(5.7)2

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

THIS TUNE APPLIES TO THE FOLLOWING:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	>CJ188	3/14/90	9:41
02	VSTD010	VSTD010	>CJ189	3/14/90	10:29
03	VSTD015	VSTD015	>CJ190	3/14/90	13:37
04	VSTD020	VSTD020	>CJ191	3/14/90	12:04
05	VSTD025	VSTD025	>CJ192	3/14/90	12:51
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5A

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

Lab Name: TREKKER CHEMICAL CO. Contract: ESAT

KDH 3/22/90

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TFA302 SDG No.: -------

Lab File ID: >CJ193 BFB Injection Date: 3/14/90

Instrument ID: 87 3 BFB Injection Time: 14:46

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	44.7
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	56.2
175	5.0 - 9.0% of mass 174	3.7(6.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	54.3(96.6)1
177	5.0 - 9.0% of mass 176	4.0(7.4)2

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

THIS TUNE APPLIES TO THE FOLLOWING:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD015	VSTD015	>CJ194	3/14/90	15:33
02	90FD10S40	90FD10S40	>CJ203	3/14/90	22:40
03					
04					
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6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

KDH 3/22/90

Lab Name: TREKKER CHEMICAL CO. Contract: ESAT

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TFA302 SDG No.: -------

Instrument ID: 87 3 Calibration Date(s): 03/09/90

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: RRF5.0=>KH228 RRF10.0=>KH229
RRF15.0=>KH227 RRF20.0=>KH230 RRF25.0=>KH231

COMPOUND	RRF5	RRF10	RRF15	RRF20	RRF25	$\overline{RRF}$	% RSD
Chloromethane #	3.807	3.537	3.612	3.486	3.218	3.532	6.1#
Bromomethane	3.207	3.049	2.894	3.113	2.826	3.018	5.2
Vinyl_Chloride *	4.006	3.835	3.734	3.881	3.474	3.786	5.3*
Chloroethane	1.972	1.848	1.786	1.856	1.647	1.822	6.5
Methylene_Chloride	2.273	1.846	1.754	2.026	2.363	2.052	12.8
Acrolein	.048	.045	.052	.057	.055	.051	9.6
Acetone	.106	.111	.114	.121	.118	.114	5.1
Acrylonitrile	.101	.096	.096	.104	.101	.100	3.7
Carbon_Disulfide	8.611	8.159	7.785	8.366	7.933	8.170	4.0
1,1-Dichloroethene *	2.679	2.057	2.548	2.574	2.612	2.494	10.0*
1,1-Dichloroethane #	5.943	4.613	5.689	5.890	5.885	5.604	10.0#
1,2-Dichloroethane_(total)	2.994	2.265	2.819	2.908	2.918	2.781	10.6
Chloroform *	4.585	3.503	4.358	4.539	4.494	4.296	10.5*
1,2-Dichloroethane	1.286	1.013	1.255	1.313	1.301	1.234	10.1
2-Butanone	.015	.015	.016	.017	.016	.016	4.1
1,1,1-Trichloroethane	.878	.690	.825	.861	.855	.822	9.3
Carbon_Tetrachloride	.697	.551	.662	.692	.690	.658	9.4
Vinyl_Acetate	.503	.346	.381	.540	.417	.437	18.7
Bromodichloromethane	.818	.639	.802	.838	.840	.788	10.7
1,2-Dichloropropane *	.929	.730	.904	.940	.942	.889	10.1*
cis-1,3-Dichloropropene	.870	.676	.867	.910	.906	.846	11.4
Trichloroethene	.836	.663	.806	.831	.866	.801	10.0
Dibromochloromethane	.373	.295	.386	.403	.409	.373	12.3
1,1,2-Trichloroethane	.322	.235	.285	.316	.325	.296	12.8
Benzene	3.046	2.387	2.951	3.097	3.093	2.915	10.3
trans-1,3-Dichloropropene	.485	.389	.546	.534	.539	.499	13.2
2-Chloroethyl_vinylether	.227	.175	.218	.221	.224	.213	10.1
Bromoform #	.127	.104	.141	.145	.153	.134	14.5#
4-Methyl-2-pentanone	.491	.454	.456	.472	.469	.468	3.2
2-Hexanone	.247	.231	.240	.252	.258	.246	4.3
Tetrachloroethene	1.369	.972	1.178	1.193	1.257	1.194	12.1
1,1,2,2-Tetrachloroethane	.401	.295	.399	.419	.437	.390	14.2
Toluene *	4.043	2.885	3.563	3.581	3.708	3.556	11.9*
Chlorobenzene #	3.720	2.656	3.377	3.417	3.504	3.335	12.1#
Ethylbenzene *	2.298	1.647	2.041	2.051	2.095	2.026	11.7*
Styrene	3.695	3.484	3.349	3.606	3.495	3.526	3.7
Meta Xylene	2.890	2.529	2.536	2.613	2.508	2.615	6.1
O-&/or_P-Xylene	2.819	2.419	2.443	2.547	2.411	2.528	6.8
1,2-Dichloroethane-d4	2.383	2.486	2.523	2.614	2.633	2.528	4.0
Benzene-d6	2.217	2.267	2.236	2.247	2.199	2.233	1.2
Toluene-d8	13.025	12.246	12.048	11.486	11.815	12.124	4.8

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: TREKKER CHEMICAL CO. Contract: ESAT

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TFA302 SDG No.: -------

Instrument ID: 87 3 Calibration Date(s): 03/14/90

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: RRF5.0=>CJ188 RRF10.0=>CJ189
RRF15.0=>CJ190 RRF20.0=>CJ191 RRF25.0=>CJ192

COMPOUND	RRF5	RRF10	RRF15	RRF20	RRF25	$\overline{RRF}$	% RSD
Chloromethane #	3.417	2.900	3.248	4.814	4.620	3.800	22.6#
Bromomethane	2.727	3.045	2.562	3.387	3.399	3.024	12.5
Vinyl_Chloride *	3.618	4.057	3.209	4.676	4.530	4.018	15.3*
Chloroethane	1.855	1.999	1.574	2.376	2.189	1.999	15.4
Methylene_Chloride	.718	.868	2.119	2.093	2.559	1.671	49.3
Acrolein	.094	.096	.060	.111	.089	.090	20.8
Acetone	.151	.161	.103	.160	.138	.143	16.8
Acrylonitrile	.227	.247	.170	.249	.224	.223	14.3
Carbon_Disulfide	11.695	11.359	10.696	13.644	14.194	12.318	12.3
1,1-Dichloroethene *	2.507	2.866	2.520	2.526	3.263	2.737	12.1*
1,1-Dichloroethane #	5.906	6.899	5.377	5.798	6.915	6.179	11.2#
1,2-Dichloroethene_(total)	2.497	2.870	2.447	2.500	3.133	2.689	11.2
Chloroform *	4.555	5.356	4.052	4.369	5.148	4.696	11.6*
1,2-Dichloroethane	1.335	1.641	1.068	1.232	1.366	1.329	15.8
2-Butanone	.017	.017	.013	.017	.016	.016	11.2
1,1,1-Trichloroethane	.818	.940	.781	.800	.987	.865	10.7
Carbon_Tetrachloride	.673	.785	.674	.681	.843	.731	10.7
Vinyl_Acetate	.313	.338	.207	.484	.197	.308	37.9
Bromodichloromethane	.706	.840	.651	.633	.767	.719	11.9
1,2-Dichloropropane *	.874	1.038	.831	.791	.966	.900	11.2*
cis-1,3-Dichloropropene	.694	.834	.655	.631	.757	.714	11.5
Trichloroethene	.720	.840	.816	.704	.960	.808	12.8
Dibromochloromethane	.346	.436	.343	.325	.400	.370	12.6
1,1,2-Trichloroethane	.298	.353	.276	.264	.317	.302	11.7
Benzene	2.484	2.852	2.496	2.351	3.017	2.640	10.6
trans-1,3-Dichloropropene	.605	.738	.549	.547	.654	.619	13.0
2-Chloroethyl_vinylether	.171	.188	.137	.135	.156	.157	14.4
Bromoform #	.110	.140	.110	.101	.128	.118	13.5#
4-Methyl-2-pentanone	.445	.472	.375	.476	.445	.443	9.2
2-Hexanone	.255	.267	.188	.238	.222	.234	13.2
Tetrachloroethene	.843	.963	1.106	.888	1.277	1.016	17.4
1,1,2,2-Tetrachloroethane	.251	.332	.276	.270	.324	.291	12.2
Toluene *	2.449	2.803	2.940	2.487	3.384	2.813	13.5*
Chlorobenzene #	2.495	2.964	2.941	2.542	3.388	2.866	12.7#
Ethylbenzene *	1.412	1.676	1.712	1.507	2.022	1.666	14.0*
Styrene	2.841	3.050	2.944	3.501	3.539	3.175	10.2
Meta Xylene	2.110	2.340	2.241	2.685	2.622	2.400	10.3
O-&/or_P-Xylene	2.084	2.239	2.105	2.578	2.463	2.294	9.6
1,2-Dichloroethane-d4	1.170	1.270	1.056	1.326	1.261	1.217	8.7
Benzene-d6	2.094	2.079	2.252	2.218	2.225	2.174	3.7
Toluene-d8	3.457	3.406	4.417	3.899	4.314	3.898	12.0

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: TREKKER CHEMICAL CO. Contract: ESAT

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TFA302 SDG No.: -------

KDW 3/22/90

Instrument ID: 87 3 Calibration Date: 3/13/90 Time: 13:25

Lab File ID: >KH242 Init. Calib. Date(s): 03/09/90 ~~03/13/90~~ KDH 3/23/90

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF15	%D	
Chloromethane	#	3.532	4.620	30.8	#
Bromomethane		3.018	3.975	31.7	
Vinyl Chloride	*	3.786	5.047	33.3	*
Chloroethane		1.822	2.444	34.2	
Methylene_Chloride		2.052	2.244	9.3	
Acrolein		.051	.055	6.8	
Acetone		.114	.121	6.0	
Acrylonitrile		.100	.099	.7	
Carbon_Disulfide		8.170	6.632	18.8	
1,1-Dichloroethene	*	2.494	2.280	8.6	*
1,1-Dichloroethane	#	5.604	5.446	2.8	#
1,2-Dichloroethene_(total)		2.781	2.532	8.9	
Chloroform	*	4.296	4.225	1.7	*
1,2-Dichloroethane		1.234	1.350	9.5	
2-Butanone		.016	.015	6.7	
1,1,1-Trichloroethane		.822	.747	9.2	
Carbon_Tetrachloride		.658	.593	9.9	
Vinyl Acetate		.437	.469	7.2	
Bromodichloromethane		.788	.751	4.6	
1,2-Dichloropropane	*	.889	.826	7.1	*
cis-1,3-Dichloropropene		.846	.807	4.5	
Trichloroethene		.801	.672	16.1	
Dibromochloromethane		.373	.365	2.2	
1,1,2-Trichloroethane		.296	.264	11.0	
Benzene		2.915	2.569	11.9	
trans-1,3-Dichloropropene		.499	.487	2.4	
2-Chloroethyl_vinylether		.213	.208	2.2	
Bromoform	#	.134	.127	5.5	#
4-Methyl-2-pentanone		.468	.442	5.7	
2-Hexanone		.246	.254	3.5	
Tetrachloroethene		1.194	.962	19.4	
1,1,2,2-Tetrachloroethane		.390	.331	15.2	
Toluene	*	3.556	2.978	16.3	*
Chlorobenzene	#	3.335	2.923	12.4	#
Ethylbenzene	*	2.026	1.765	12.9	*
Styrene		3.526	3.024	14.2	
Meta Xylene		2.615	2.170	17.0	
O-&/or_P-Xylene		2.528	2.090	17.3	
1,2-Dichloroethane-d4		2.528	2.859	13.1	
Benzene-d6		2.233	2.000	10.4	
Toluene-d8		12.124	10.787	11.0	

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: TRAKKER CHEMICAL CO. Contract: ESAT

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TFA302 SDG No.: -------

KDH 3/22/90

Instrument ID: 87 3 Calibration Date: 3/14/90 Time: 15:33

Lab File ID: >CJ194 Init. Calib. Date(s): 03/14/90 ~~02/27/90~~

KDH 3/23/90

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF15	%D	
Chloromethane	#	3.800	4.378	15.2	#
Bromomethane		3.024	3.240	7.1	
Vinyl Chloride	*	4.018	4.295	6.9	*
Chloroethane		1.999	2.168	8.4	
Methylene_Chloride		1.671	2.497	49.4	
Acrolein		.090	.107	18.5	
Acetone		.143	.150	5.2	
Acrylonitrile		.223	.243	8.8	
Carbon_Disulfide		12.318	14.062	14.2	
1,1-Dichloroethene	*	2.737	3.035	10.9	*
1,1-Dichloroethane	#	6.179	6.574	6.4	#
1,2-Dichloroethene_(total)		2.689	2.930	8.9	
Chloroform	*	4.696	4.976	6.0	*
1,2-Dichloroethane		1.329	1.344	1.2	
2-Butanone		.016	.017	7.7	
1,1,1-Trichloroethane		.865	.944	9.1	
Carbon_Tetrachloride		.731	.803	9.9	
Vinyl Acetate		.308	.313	1.6	
Bromodichloromethane		.719	.764	6.2	
1,2-Dichloropropane	*	.900	.966	7.3	*
cis-1,3-Dichloropropene		.714	.765	7.2	
Trichloroethene		.808	.893	10.5	
Dibromochloromethane		.370	.395	6.9	
1,1,2-Trichloroethane		.302	.316	4.6	
Benzene		2.640	2.918	10.5	
trans-1,3-Dichloropropene		.619	.648	4.7	
2-Chloroethyl_vinylether		.157	.156	1.1	
Bromoform	#	.118	.125	6.3	#
4-Methyl-2-pentanone		.443	.507	14.5	
2-Hexanone		.234	.240	2.7	
Tetrachloroethene		1.016	1.229	21.0	
1,1,2,2-Tetrachloroethane		.291	.351	20.7	
Toluene	*	2.813	3.354	19.2	*
Chlorobenzene	#	2.866	3.350	16.9	#
Ethylbenzene	*	1.666	1.971	18.4	*
Styrene		3.175	3.797	19.6	
Meta Xylene		2.400	3.004	25.2	
O-&/or_P-Xylene		2.294	2.871	25.2	
1,2-Dichloroethane-d4		1.217	1.147	5.7	
Benzene-d6		2.174	2.284	5.1	
Toluene-d8		3.898	4.331	11.1	

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Study Name:TREKKER CHEMICAL CO. | 25 ch Data Set:SF7035

KDH 3/22/90

SAS No.: TFA302 SDG No.: ------- Contract: ESAT

Lab File ID (Standard): >KH242 Date Analyzed: 3/13/90

Instrument ID: 87 3 Time Analyzed: 13:25

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/wcap) PACK

	IS1(BCB)	IS2(BCP)	IS3(DCB)	

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Study Name: TRAKKER CHEMICAL CO. | 25 ch Data Set: SF7035
KOH 3/22/90

SAS No.: TFA302 SDG No.: ------- Contract: ESAT

Lab File ID (Standard): >CJ194 Date Analyzed: 3/14/90

Instrument ID: 87 3 Time Analyzed: 15:33

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/wcap) PACK

		IS1(BCB) AREA #	RT	IS2(BCP) AREA #	RT	IS3(DCB) AREA #	RT
	12 HOUR STD	154041.	10.53	603058.	19.53	292820.	23.44
	UPPER LIMIT	308082.	11.03	1206116.	20.03	585640.	23.94
	LOWER LIMIT	77020.	10.03	301529.	19.03	146410.	22.94
	EPA SAMPLE NO.						
01	METH BLNK	214938.	10.54	815298.	19.53	378089.	23.48
02	90FD10S40	112474.	10.50	452882.	19.52	211738.	23.47
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (BCP) = 2-Bromo-1-chloropropane
IS3 (DCB) = 1,4-Dichlorobutane

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

* Value outside QC limit.
\# Column used to flag internal standard area values with an asterisk

FORM VIII-VOA

U.S. EPA - REGION V
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
90FD10S38M

Study Name: TRAKKER CHEMICAL CO. | 2
Data Set: SF7035 Date Received: 03/09/90
Lab File ID: >KH251 Date Analyzed: 3/13/90
Matrix: (soil/water) WATER Dilution Factor: 1.0
Sample wt/vol: 20 mL Level:(low/med) LOW

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q	
74-87-3	Chloromethane	3.	U	X
74-83-9	Bromomethane	3.	U	X
75-01-4	Vinyl Chloride	3.	U	X
75-00-3	Chloroethane	3.	U	
75-09-2	Methylene Chloride	1.	U	X
107-02-8	Acrolein	75.	U	
67-64-1	Acetone	50.	U	
107-13-1	Acrylonitrile	50.	U	
75-15-0	Carbon Disulfide	2.	U	X
75-35-4	1,1-Dichloroethene	10.		
75-34-3	1,1-Dichloroethane	1.	U	
156-60-5	1,2-Dichloroethene (total)	1.	U	X
67-66-3	Chloroform	1.	U	
107-02-2	1,2-Dichloroethane	1.	U	
78-93-3	2-Butanone	20.	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	10.		
71-43-2	Benzene	11.		
124-48-1	Dibromochloromethane	1.	U	
10061-02-6	trans-1,3-Dichloropropene	1.	U	
79-00-5	1,1,2-Trichloroethane	1.	U	
110-75-8	2-Chloroethyl Vinylether	1.	U	
75-25-2	Bromoform	1.	U	
108-10-1	4-Methyl-2-pentanone	4.	U	
591-78-6	2-Hexanone	4.	U	
127-18-4	Tetrachloroethene	1.	U	
79-34-5	1,1,2,2-Tetrachloroethane	1.	U	
108-88-3	Toluene	11.		
108-90-7	Chlorobenzene	11.		
100-41-4	Ethylbenzene	1.	U	
100-42-5	Styrene	2.	U	
108-38-3	Meta Xylene	2.	U	
95-47-6	O-&/or P-Xylene	2.	U	

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES NO

KDH
3/22/90

U.S. EPA - REGION V
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FD10S38D

Study Name: TRAKKER CHEMICAL CO. | 2
Data Set: SF7035 Date Received: 03/09/90
Lab File ID: >KH252 Date Analyzed: 3/13/90
Matrix: (soil/water) WATER Dilution Factor: 1.0
Sample wt/vol: 20 mL Level:(low/med) LOW

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q	
74-87-3	Chloromethane	3.	U	X
74-83-9	Bromomethane	3.	U	
75-01-4	Vinyl Chloride	3.	U	
75-00-3	Chloroethane	3.	U	
75-09-2	Methylene Chloride	1.	U	X
107-02-8	Acrolein	75.	U	
67-64-1	Acetone	50.	U	
107-13-1	Acrylonitrile	50.	U	
75-15-0	Carbon Disulfide	2.	U	X
75-35-4	1,1-Dichloroethene	10.		
75-34-3	1,1-Dichloroethane	1.	U	
156-60-5	1,2-Dichloroethene (total)	1.	U	
67-66-3	Chloroform	1.	U	
107-02-2	1,2-Dichloroethane	1.	U	
78-93-3	2-Butanone	20.	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	10.		
71-43-2	Benzene	10.		
124-48-1	Dibromochloromethane	1.	U	
10061-02-6	trans-1,3-Dichloropropene	1.	U	
79-00-5	1,1,2-Trichloroethane	1.	U	
110-75-8	2-Chloroethyl Vinylether	1.	U	X
75-25-2	Bromoform	1.	U	
108-10-1	4-Methyl-2-pentanone	4.	U	
591-78-6	2-Hexanone	4.	U	
127-18-4	Tetrachloroethene	1.	U	
79-34-5	1,1,2,2-Tetrachloroethane	1.	U	
108-88-3	Toluene	10.		
108-90-7	Chlorobenzene	11.		
100-41-4	Ethylbenzene	1.	U	
100-42-5	Styrene	2.	U	
108-38-3	Meta Xylene	2.	U	
95-47-6	O-&/or P-Xylene	2.	U	

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES NO

KDH
3/22/90

```
C
: reg type  # pts  scan#    range: amu\r.t.      base   file     ion range
 --- ----  -----  -----   ----------------   -------  -----  --------------
  X   MS      72    937    39.95-   208.90   15464.0 >KH226
  working...
  draw complete...
:,C
 reg type  # pts  scan#    range: amu\r.t.      base   file     ion range
 --- ----  -----  -----   ----------------   -------  -----  --------------
  X   MS      49    987    39.95-   208.90   13681.0 >KH226
  working...
  draw complete...
:SUB
 reg type  # pts  scan#    range: amu\r.t.      base   file     ion range
 --- ----  -----  -----   ----------------   -------  -----  --------------
  X   MS      78    937    39.95-   208.90    8633.0 >KH226
:TUNER,=BFB
```

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	15.96	15.96	Ok
75	30-60% of mass 95	40.97	40.97	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.81	6.81	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	56.60	56.60	Ok
175	5-9% of mass 174	3.67	6.49	Ok
176	95-101% of mass 174	55.67	98.36	Ok
177	5-9% of mass 176	3.79	6.80	Ok

Injection Date: 03/09/90
Injection Time: 09:35
Data File: >KH226
Scan: 937

```
:AL,,3     Move cursor; then press carriage return :
```

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

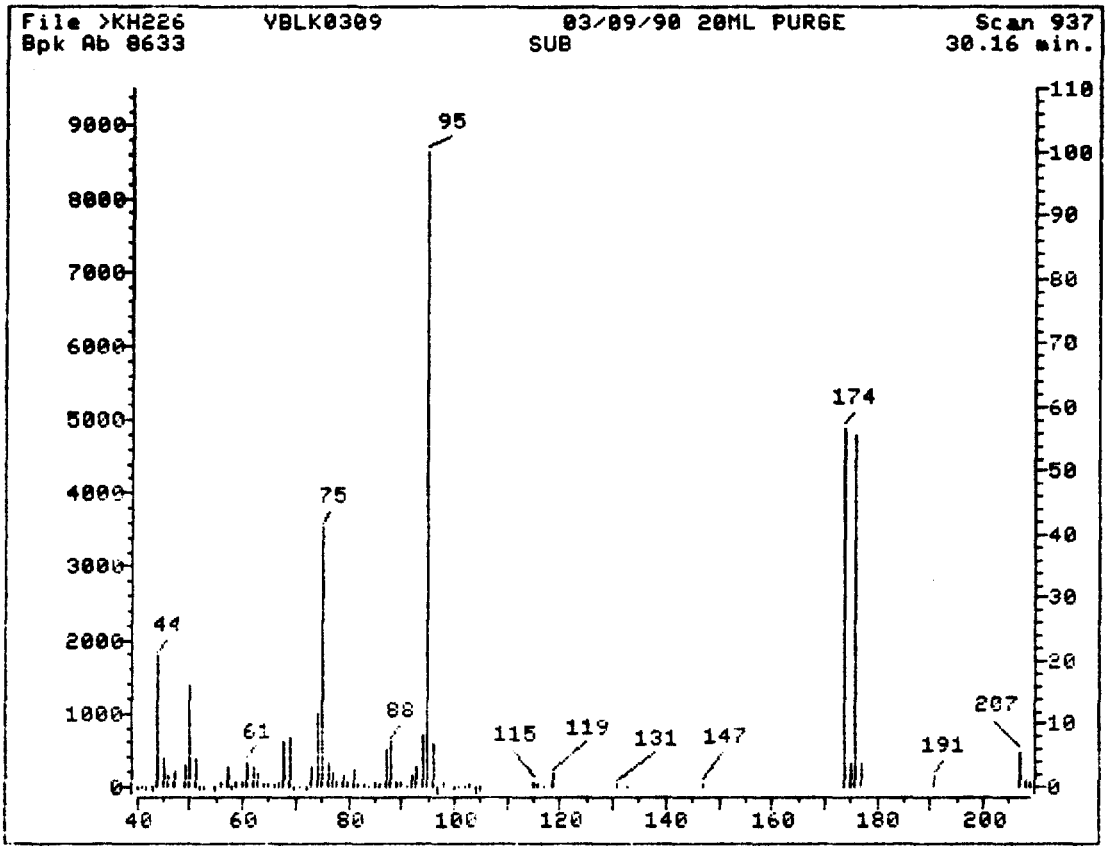
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	15.96	15.96	Ok
75	30-60% of mass 95	40.97	40.97	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.81	6.81	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	56.60	56.60	Ok
175	5-9% of mass 174	3.67	6.49	Ok
176	95-101% of mass 174	55.67	98.36	Ok
177	5-9% of mass 176	3.79	6.80	Ok

Injection Date: 03/09/90
Injection Time: 09:35
Data File: >KH226
Scan: 937

MS data file header from : >KH226

Sample: VBLK0309 Operator: CHACKO MS 3/09/90 9:35
Misc : 03/09/90 20ML PURGE
Sys. #: 3 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: VOA#3 Tuning file: MTBFB3 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 : >KH226

Sample: VBLK0309 Operator: CHACKO MS 3/09/90 9:35
Misc : 03/09/90 20ML PURGE
Sys. #: 3 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: VOA#3 Tuning file: MTBFB3 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

>KH226 VBLK0309 03/09/90 20ML PURGE
937 SUB

File: >KH226 Scan #: 937 Retn. time: 30.16

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
39.95	-33.00	57.90	-33.00	73.95	1004.00	89.95	63.00	114.90	67.00
40.90	5.00	58.90	43.00	74.95	3537.00	90.95	-2.00	115.90	29.00
41.90	-32.00	59.90	57.00	75.95	322.00	91.95	157.00	116.90	4.00
42.90	-58.00	60.90	330.00	76.95	199.00	92.90	249.00	118.80	174.00
43.90	1783.00	61.90	256.00	77.80	75.00	93.90	688.00	130.95	24.00
44.90	385.00	62.90	183.00	78.80	144.00	94.90	8633.00	132.95	5.00
45.90	136.00	63.90	35.00	79.80	66.00	95.90	588.00	146.90	37.00
46.90	201.00	64.90	14.00	80.95	225.00	96.90	-92.00	173.80	4886.00
48.90	290.00	66.00	37.00	81.80	25.00	97.90	55.00	174.80	317.00
49.90	1378.00	66.80	53.00	82.95	24.00	99.90	-40.00	175.80	4806.00
50.90	378.00	67.80	626.00	83.95	-7.00	100.90	-14.00	176.80	327.00
51.90	-42.00	68.95	677.00	84.95	49.00	101.90	12.00	190.80	131.00
52.75	-42.00	69.80	-23.00	85.95	34.00	102.90	17.00	206.90	469.00
54.90	-57.00	70.95	-5.00	86.95	497.00	103.90	-93.00	207.90	99.00
56.00	65.00	71.95	-38.00	87.95	609.00	104.90	-46.00	208.90	51.00
57.00	250.00	72.95	254.00	88.95	49.00				

MS data file header from : >KH226

Sample: VBLK0309 Operator: CHACKO MS 3/09/90 9:35
Misc : 03/09/90 20ML PURGE
Sys. #: 3 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: VOA#3 Tuning file: MTBFB3 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

:PS,936

reg	type	# pts	scan#	range: amu\r.t.	base	file	ion range
X	MS	58	936	39.95- 206.90	12273.0	>KH240	

:PS,937

reg	type	# pts	scan#	range: amu\r.t.	base	file	ion range
X	MS	59	937	39.95- 206.90	12344.0	>KH240	

:ADD

reg	type	# pts	scan#	range: amu\r.t.	base	file	ion range
X	MS	65	936	39.95- 206.90	24617.0	>KH240	

:PS,951

reg	type	# pts	scan#	range: amu\r.t.	base	file	ion range
X	MS	53	951	39.95- 207.90	12009.0	>KH240	

:SUB

reg	type	# pts	scan#	range: amu\r.t.	base	file	ion range
X	MS	69	936	39.95- 207.90	14771.0	>KH240	

:TUNER,=BFB

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	18.43	18.43	Ok
75	30-60% of mass 95	44.00	44.00	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.97	6.97	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	53.09	53.09	Ok
175	5-9% of mass 174	3.05	5.75	Ok
176	95-101% of mass 174	52.11	98.15	Ok
177	5-9% of mass 176	3.08	5.91	Ok

Injection Date: 03/13/90
Injection Time: 11:08
Data File: >KH240
Scan: 936

:AL,,3 Move cursor; then press carriage return :

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

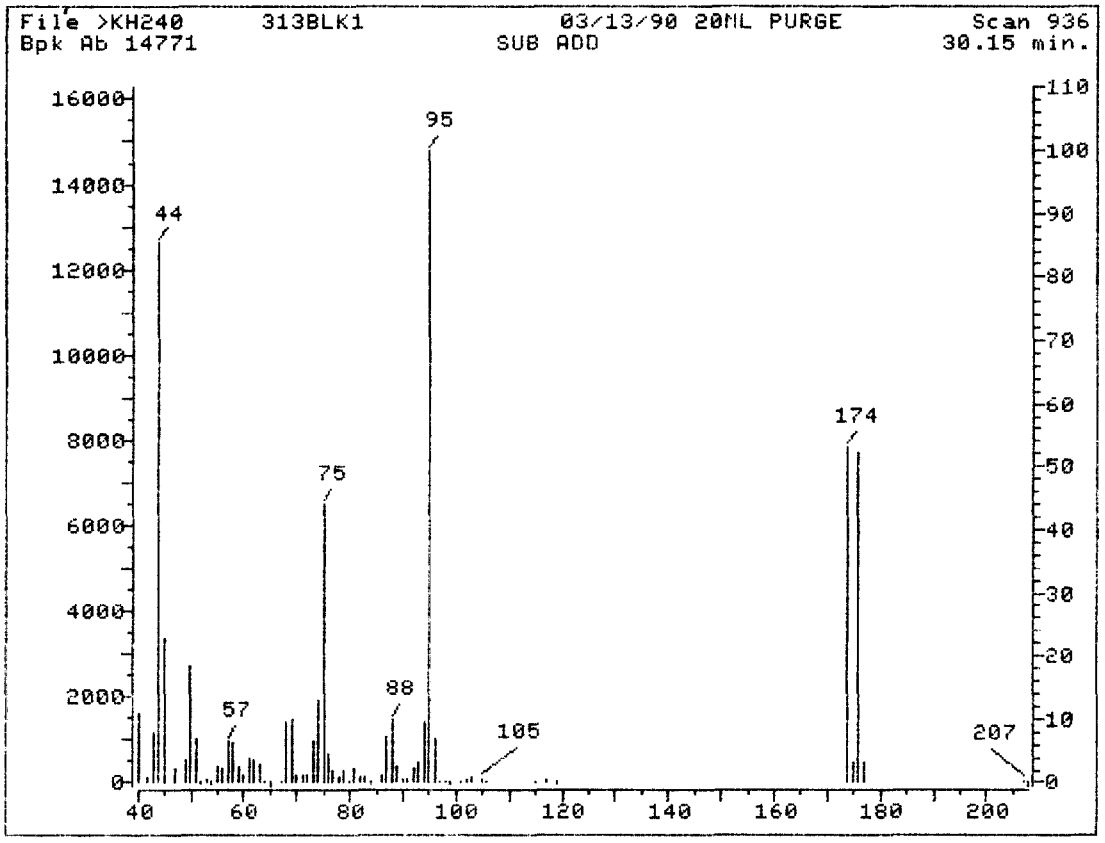
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	18.43	18.43	Ok
75	30-60% of mass 95	44.00	44.00	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.97	6.97	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	53.09	53.09	Ok
175	5-9% of mass 174	3.05	5.75	Ok
176	95-101% of mass 174	52.11	98.15	Ok
177	5-9% of mass 176	3.08	5.91	Ok

Injection Date: 03/13/90
Injection Time: 11:08
Data File: >KH240
Scan: 936

MS data file header from : >KH240

Sample: 313BLK1 Operator: CHACKO MS 3/13/90 11:08
Misc : 03/13/90 20ML PURGE
Sys. #: 3 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: VOA#3 Tuning file: MTBFB3 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 : >KH240

Sample: 313BLK1 Operator: CHACKO MS 3/13/90 11:08
Misc : 03/13/90 20ML PURGE
Sys. #: 3 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: VOA#3 Tuning file: MTBFB3 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

>KH240 313BLK1 03/13/90 20ML PURGE
936 SUB ADD

File: >KH240 Scan #: 936 Retn. time: 30.15

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
39.95	1619.0	56.90	951.0	71.95	190.0	86.95	1076.0	101.90	75.0
41.90	110.0	57.90	928.0	72.95	992.0	87.95	1455.0	102.90	103.0
42.90	1153.0	59.00	381.0	73.95	1941.0	88.95	388.0	104.90	91.0
43.90	12608.0	59.90	185.0	74.95	6499.0	89.95	72.0	105.75	20.0
44.90	3386.0	60.90	561.0	75.95	671.0	90.95	70.0	114.90	19.0
46.90	309.0	61.90	544.0	76.80	261.0	91.95	323.0	116.90	88.0
48.90	515.0	62.90	416.0	77.80	118.0	92.90	493.0	118.80	-20.0
49.90	2723.0	63.90	42.0	78.80	266.0	93.90	1432.0	173.80	7842.0
50.90	999.0	64.90	-67.0	79.80	34.0	94.90	14771.0	174.80	451.0
51.90	-20.0	66.95	46.0	80.80	302.0	95.90	1030.0	175.80	7697.0
52.90	72.0	67.95	1444.0	81.80	117.0	96.90	10.0	176.80	455.0
53.90	-5.0	68.95	1488.0	82.95	129.0	97.90	29.0	206.90	46.0
54.90	383.0	69.95	194.0	83.80	-31.0	98.75	-17.0	207.90	-81.0
55.90	312.0	70.95	187.0	85.95	151.0	100.90	39.0		

MS data file header from : >KH240

Sample: 313BLK1 Operator: CHACKO MS 3/13/90 11:08
Misc : 03/13/90 20ML PURGE
Sys. #: 3 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: VOA#3 Tuning file: MTBFB3 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

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

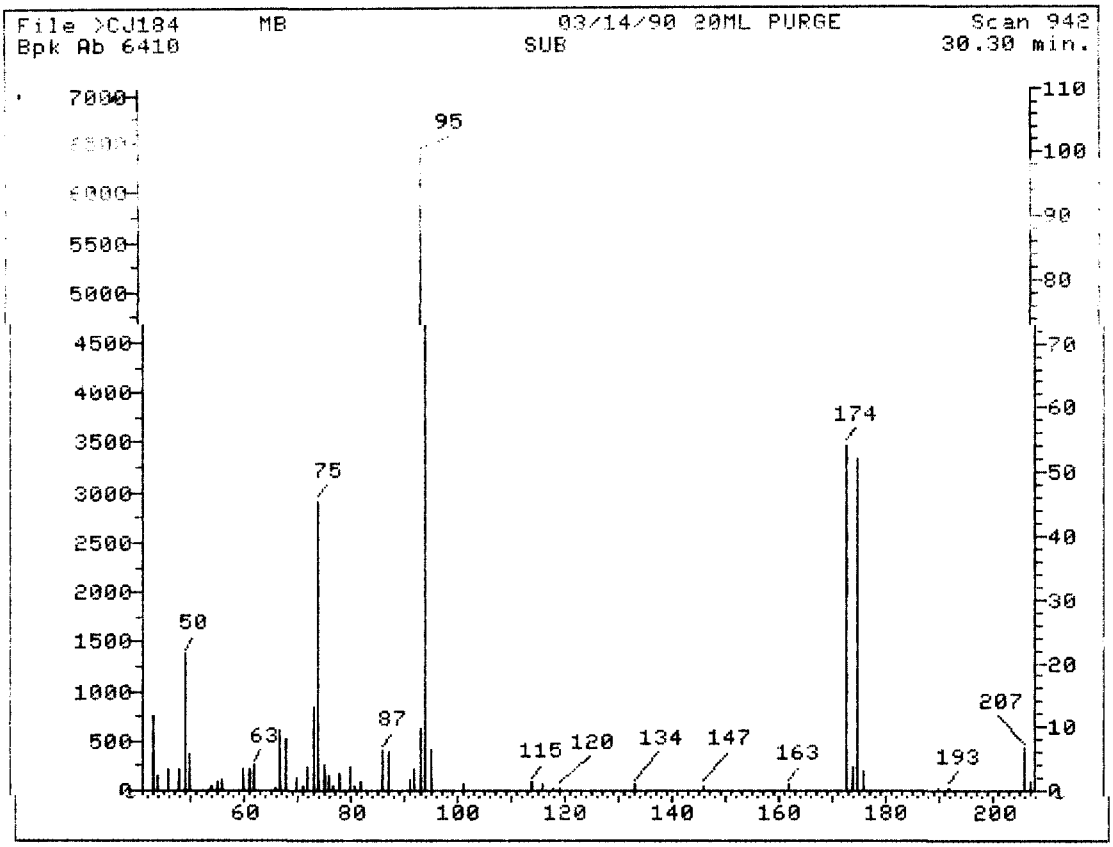
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	21.48	21.48	Ok
75	30-60% of mass 95	45.44	45.44	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.26	6.26	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	54.24	54.24	Ok
175	5-9% of mass 174	3.73	6.87	Ok
176	95-101% of mass 174	51.92	95.71	Ok
177	5-9% of mass 176	2.96	5.71	Ok

Injection Date: 03/14/90
Injection Time: 08:06
Data File: >CJ184
Scan: 942

MS data file header from : >CJ184

Sample: MB Operator: CHACKO MS 3/14/90 8:06
Misc : 03/14/90 20ML PURGE
Sys. #: 3 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: VOA#3 Tuning file: MTBFB3 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 : >CJ184

Sample: MB Operator: CHACKO MS 3/14/90 8:06
Misc : 03/14/90 20ML PURGE
Sys. #: 3 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: VOA#3 Tuning file: MTBFB3 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

>CJ184 MB 03/14/90 20ML PURGE
942 SUB

File: >CJ184 Scan #: 942 Retn. time: 30.30

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
41.90	208.00	60.90	219.00	75.95	252.00	92.90	211.00	146.75	56.00
42.90	12.00	61.90	217.00	76.95	162.00	93.90	630.00	162.90	59.00
43.90	760.00	62.90	250.00	77.80	35.00	94.90	6410.00	173.80	3477.00
44.90	152.00	66.95	26.00	78.80	176.00	95.90	401.00	174.80	239.00
46.90	227.00	67.80	598.00	80.80	229.00	101.90	72.00	175.80	3328.00
48.90	222.00	68.95	515.00	81.80	46.00	114.90	87.00	176.80	190.00
49.90	1377.00	70.95	138.00	82.95	80.00	116.90	70.00	190.95	14.00
50.90	374.00	71.95	45.00	85.95	8.00	118.80	30.00	192.95	32.00
52.00	4.00	72.95	229.00	86.95	407.00	119.95	24.00	206.90	428.00
55.00	38.00	73.95	845.00	87.95	391.00	120.95	13.00	207.90	81.00
55.90	81.00	74.95	2913.00	91.95	120.00	133.95	60.00	208.90	62.00
57.00	107.00								

MS data file header from : >CJ184

Sample: MB Operator: CHACKO MS 3/14/90 8:06
Misc : 03/14/90 20ML PURGE
Sys. #: 3 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: VOA#3 Tuning file: MTBFB3 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

:,BFB

reg	type	# pts	scan#	range: amu\r.t.	base	file	ion range
X	MS	60	940	39.95- 208.90	11524.0	>CJ193	
reg	type	# pts	scan#	range: amu\r.t.	base	file	ion range
X	MS	55	981	39.95- 208.90	11078.0	>CJ193	
reg	type	# pts	scan#	range: amu\r.t.	base	file	ion range
X	MS	48	940	42.90- 208.90	6450.0	>CJ193	

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	18.74	18.74	Ok
75	30-60% of mass 95	44.68	44.68	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.55	7.55	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	56.25	56.25	Ok
175	5-9% of mass 174	3.67	6.53	Ok
176	95-101% of mass 174	54.31	96.55	Ok
177	5-9% of mass 176	4.02	7.39	Ok

Injection Date: 03/14/90
Injection Time: 14:46
Data File: >CJ193
Scan: 940

:AL,,3 Move cursor; then press carriage return :

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

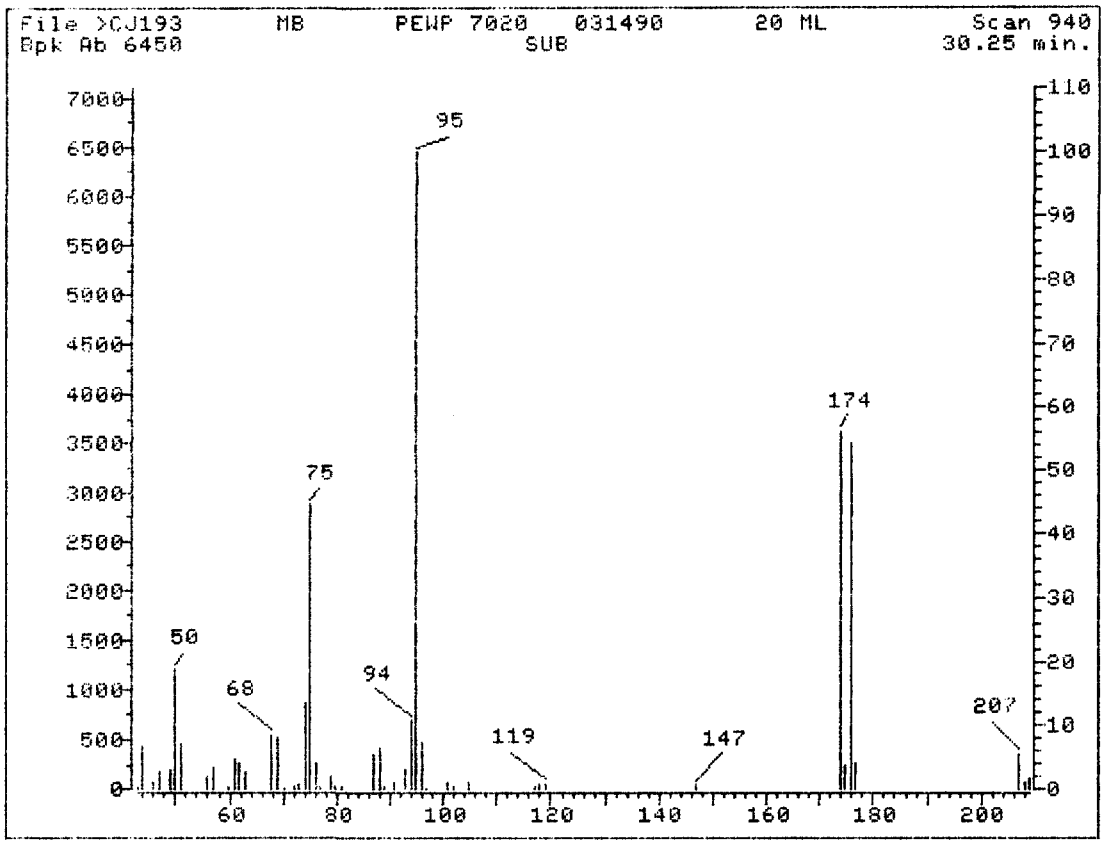
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	18.74	18.74	Ok
75	30-60% of mass 95	44.68	44.68	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.55	7.55	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	56.25	56.25	Ok
175	5-9% of mass 174	3.67	6.53	Ok
176	95-101% of mass 174	54.31	96.55	Ok
177	5-9% of mass 176	4.02	7.39	Ok

Injection Date: 03/14/90
Injection Time: 14:46
Data File: >CJ193
Scan: 940

MS data file header from : >CJ193

Sample: MB PEWP 7020 Operator: CHACKO MS 3/14/90 14:46
Misc : 031490 20 ML
Sys. #: 3 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: VOA#3 Tuning file: MTBFB3 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 : >CJ193

Sample: MB PEWP 7020 Operator: CHACKO MS 3/14/90 14:46
Misc : 031490 20 ML
Sys. #: 3 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: VOA#3 Tuning file: MTBFB3 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

>CJ193 MB PEWP 7020 031490 20 ML
940 SUB

File: >CJ193 Scan #: 940 Retn. time: 30.25

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
42.90	22.00	60.90	316.00	75.95	270.00	93.90	688.00	118.95	48.00
43.90	446.00	61.90	258.00	76.95	26.00	94.90	6450.00	146.75	39.00
45.90	60.00	62.90	186.00	78.80	131.00	95.90	487.00	173.80	3628.00
46.90	177.00	67.80	544.00	79.80	29.00	96.90	8.00	174.80	237.00
48.90	207.00	68.95	526.00	80.95	31.00	100.90	59.00	175.80	3503.00
49.90	1209.00	69.95	10.00	86.95	396.00	101.90	24.00	176.80	299.00
50.90	448.00	71.95	28.00	87.95	404.00	104.75	69.00	206.90	353.00
56.00	123.00	72.95	42.00	88.95	28.00	116.90	28.00	207.90	68.00
57.00	210.00	73.95	875.00	90.95	68.00	117.90	39.00	208.90	103.00
59.90	25.00	74.95	2882.00	92.90	195.00				

MS data file header from : >CJ193

Sample: MB PEWP 7020 Operator: CHACKO MS 3/14/90 14:46
Misc : 031490 20 ML
Sys. #: 3 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: VOA#3 Tuning file: MTBFB3 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

Quant ID File: IDKT30::A8

Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE

Last EDIT Date: 891228 14:24 Last Calib Date: 900313 15:05

RT Window (+/- min): 1.00
Max Hits/Compound: 1
Minimum Area: 1000
Peak/Base Peak Ratio: 35.00 %
Slope Sensitivity: .200
Subtraction Method: 2
Ignore max check: NO
Auto Qdel Method: 5
Units of Conc: UG/L

Number of Compounds: 44

Comp No.	Compound Name	(Type)	Retention Time Min.	(Rel)	R.F.	Conc.	
1)	*Bromochloromethane	(I)	10.54	(1.000)	1.00000	10.00	**
2)	CHLOROMETHANE	(T)	2.12	(.202)	4.61976	20.00	**
3)	BROMOMETHANE	(T)	3.23	(.306)	3.97470	20.00	**
4)	VINYL CHLORIDE	(T)	4.08	(.387)	5.04663	20.00	**
5)	CHLOROETHANE	(T)	5.15	(.489)	2.44437	20.00	**
6)	METHYLENE CHLORIDE	(T)	7.36	(.698)	2.24387	15.00	**
7)	ACROLEIN	(T)	8.15	(.774)	.05467	375.00	
8)	ACETONE	(T)	8.18	(.776)	.12078	375.00	**
9)	ACRYLONITRILE	(T)	8.82	(.837)	.09900	375.00	**
10)	CARBON DISULFIDE	(T)	8.92	(.846)	6.63176	12.50	**
11)	1,1-DICHLOROETHENE	(M)	10.14	(.962)	2.28021	15.00	**
12)	1,1-DICHLOROETHANE	(T)	11.39	(1.081)	5.44652	15.00	**
13)	1,2-DICHLOROETHENE (TOTAL)	(T)	12.10	(1.148)	2.53247	15.00	
14)	CHLOROFORM	(T)	12.65	(1.200)	4.22458	15.00	**
15)	1,2-DICHLOROETHANE-D4	(S)	13.29	(1.261)	2.85941	10.00	
16)	1,2-DICHLOROETHANE	(T)	13.38	(1.270)	1.35035	15.00	**
17)	*2-Bromo-1-chloropropane	(I)	19.55	(1.000)	1.00000	10.00	**
18)	2-BUTANONE	(T)	13.44	(.688)	.01483	125.00	**
19)	1,1,1-TRICHLOROETHANE	(T)	14.64	(.749)	.74652	15.00	**
20)	CARBON TETRACHLORIDE	(T)	15.01	(.768)	.59321	15.00	**
21)	VINYL ACETATE	(T)	15.19	(.777)	.46889	37.50	**
22)	BROMODICHLOROMETHANE	(T)	15.50	(.793)	.75117	15.00	**
23)	1,2-DICHLOROPROPANE	(T)	16.87	(.863)	.82581	15.00	**
24)	CIS-1,3-DICHLOROPROPENE	(T)	17.12	(.876)	.80738	21.00	**
25)	TRICHLOROETHENE	(M)	17.64	(.902)	.67160	15.00	**
26)	BENZENE-D6	(S)	18.01	(.921)	2.00016	10.00	
27)	BENZENE	(M)	18.13	(.927)	2.56872	15.00	**
28)	DIBROMOCHLOROMETHANE	(T)	18.22	(.932)	.36517	15.00	
29)	TRANS-1,3-DICHLOROPROPENE	(T)	18.37	(.940)	.48653	9.00	**
30)	1,1,2-TRICHLOROETHANE	(T)	18.34	(.938)	.26383	15.00	**
31)	2-CHLOROETHYL VINYLETHER	(T)	19.43	(.994)	.20822	15.00	**
32)	BROMOFORM	(T)	20.88	(1.068)	.12669	15.00	**
33)	*1,4-Dichlorobutane	(I)	23.49	(1.000)	1.00000	10.00	**
34)	4-METHYL-2-PENTANONE	(T)	21.46	(.914)	.44183	25.00	**
35)	2-HEXANONE	(T)	23.01	(.980)	.25448	25.00	**
36)	TETRACHLOROETHENE	(T)	23.20	(.988)	.96214	15.00	**
37)	1,1,2,2-TETRACHLOROETHANE	(T)	23.17	(.987)	.33108	15.00	**
38)	TOLUENE-D8	(S)	24.32	(1.035)	10.78716	10.00	
39)	TOLUENE	(M)	24.50	(1.043)	2.97786	15.00	**
40)	CHLOROBENZENE	(M)	25.60	(1.090)	2.92257	15.00	**
41)	ETHYLBENZENE	(T)	27.61	(1.176)	1.76514	15.00	**

42)	STYRENE	(T)	31.76(	1.352)	3.02390	12.50 **
43)	META XYLENE	(T)	32.07(	1.365)	2.17014	30.00 **
44)	O-&/OR P-XYLENE	(T)	33.16(	1.412)	2.09050	37.60 **

* Compound is ISTD
** Compound uses different Quant parameters

Calib File: CBKH3::S1
Title: VOLATILES CRL624NS 12\05\89
Units: UG/L
Last Edit: 900118 09:50
Last Calib: 900321 13:41

ID File: IDCJ3C:CJ:D3
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Units: UG/L
Last Edit: 891228 14:24
Last Calib: 900213 08:30

Correct Files ? Y

Calibrating...

1)	CHLOROMETHANE	Avg RF:	3.79989
2)	BROMOMETHANE	Avg RF:	3.02407
3)	VINYL CHLORIDE	Avg RF:	4.01802
4)	CHLOROETHANE	Avg RF:	1.99881
5)	METHYLENE CHLORIDE	Avg RF:	1.67137
6)	ACROLEIN	Avg RF:	.08996
7)	ACETONE	Avg RF:	.14287
8)	ACRYLONITRILE	Avg RF:	.22342
9)	CARBON DISULFIDE	Avg RF:	12.31783
10)	1,1-DICHLOROETHENE	Avg RF:	2.73659
11)	1,1-DICHLOROETHANE	Avg RF:	6.17894
12)	1,2-DICHLOROETHENE (TOTAL)	Avg RF:	2.68940
13)	CHLOROFORM	Avg RF:	4.69601
14)	1,2-DICHLOROETHANE-D4	Avg RF:	1.21683
15)	1,2-DICHLOROETHANE	Avg RF:	1.32857
16)	2-BUTANONE	Avg RF:	.01610
17)	1,1,1-TRICHLOROETHANE	Avg RF:	.86523
18)	CARBON TETRACHLORIDE	Avg RF:	.73123
19)	VINYL ACETATE	Avg RF:	.30778
20)	BROMODICHLOROMETHANE	Avg RF:	.71937
21)	1,2-DICHLOROPROPANE	Avg RF:	.89997
22)	CIS-1,3-DICHLOROPROPENE	Avg RF:	.71408
23)	TRICHLOROETHENE	Avg RF:	.80814
24)	BENZENE-D6	Avg RF:	2.17362
25)	BENZENE	Avg RF:	2.64009
26)	DIBROMOCHLOROMETHANE	Avg RF:	.36987
27)	TRANS-1,3-DICHLOROPROPENE	Avg RF:	.61879
28)	1,1,2-TRICHLOROETHANE	Avg RF:	.30157
29)	2-CHLOROETHYL VINYLETHER	Avg RF:	.15745
30)	BROMOFORM	Avg RF:	.11777
31)	4-METHYL-2-PENTANONE	Avg RF:	.44269
32)	2-HEXANONE	Avg RF:	.23400
33)	TETRACHLOROETHENE	Avg RF:	1.01553
34)	1,1,2,2-TETRACHLOROETHANE	Avg RF:	.29079
35)	TOLUENE-D8	Avg RF:	3.89838
36)	TOLUENE	Avg RF:	2.81260
37)	CHLOROBENZENE	Avg RF:	2.86615
38)	ETHYLBENZENE	Avg RF:	1.66572
39)	STYRENE	Avg RF:	3.17500
40)	META XYLENE	Avg RF:	2.39975
41)	O-&/OR P-XYLENE	Avg RF:	2.29372

Calibration Time Stamp Updated: 900321 13:44

Quant Output File: ^CJ194::E1
From ID File: IDCJ3D::D3
Quant Time: 900315 10:47

Quant ID File: IDKH3:KH:D3
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE

Clearing previous calibration...
Recalibrating.....

1)	Bromochloromethane	RT: 10.53	Scan: 295	(ISTD)	
2)	CHLOROMETHANE	RT: 2.09	Scan: 19	(New Rf	=4.378091)
3)	BROMOMETHANE	RT: 3.19	Scan: 55	(New Rf	=3.240303)
4)	VINYL CHLORIDE	RT: 4.04	Scan: 83	(New Rf	=4.295334)
5)	CHLOROETHANE	RT: 5.11	Scan: 118	(New Rf	=2.167511)
6)	METHYLENE CHLORIDE	RT: 7.29	Scan: 189	(New Rf	=2.496838)
7)	ACROLEIN	RT: 8.14	Scan: 217	(New Rf	= .106637)
8)	ACETONE	RT: 8.14	Scan: 217	(New Rf	= .150310)
9)	ACRYLONITRILE	RT: 8.78	Scan: 238	(New Rf	= .243051)
10)	CARBON DISULFIDE	RT: 8.85	Scan: 240	(New Rf	=14.06154)
11)	1,1-DICHLOROETHENE	RT: 10.10	Scan: 281	(New Rf	=3.034781)
12)	1,1-DICHLOROETHANE	RT: 11.39	Scan: 323	(New Rf	=6.573678)
13)	1,2-DICHLOROETHENE (TOTAL)	RT: 12.06	Scan: 345	(New Rf	=2.929510)
14)	CHLOROFORM	RT: 12.61	Scan: 363	(New Rf	=4.976506)
15)	1,2-DICHLOROETHANE-D4	RT: 13.25	Scan: 384	(New Rf	=1.147227)
16)	1,2-DICHLOROETHANE	RT: 13.34	Scan: 387	(New Rf	=1.344335)
17)	2-Bromo-1-chloropropane	RT: 19.53	Scan: 589	(ISTD)	
18)	2-BUTANONE	RT: 13.41	Scan: 389	(New Rf	= .017344)
19)	1,1,1-TRICHLOROETHANE	RT: 14.60	Scan: 428	(New Rf	= .944322)
20)	CARBON TETRACHLORIDE	RT: 14.97	Scan: 440	(New Rf	= .803422)
21)	VINYL ACETATE	RT: 15.18	Scan: 447	(New Rf	= .312700)
22)	BROMODICHLOROMETHANE	RT: 15.49	Scan: 457	(New Rf	= .764003)
23)	1,2-DICHLOROPROPANE	RT: 16.83	Scan: 501	(New Rf	= .966125)
24)	CIS-1,3-DICHLOROPROPENE	RT: 17.08	Scan: 509	(New Rf	= .765306)
25)	TRICHLOROETHENE	RT: 17.60	Scan: 526	(New Rf	= .892771)
26)	BENZENE-D6	RT: 17.96	Scan: 538	(New Rf	=2.284317)
27)	BENZENE	RT: 18.12	Scan: 543	(New Rf	=2.918370)
28)	DIBROMOCHLOROMETHANE	RT: 18.21	Scan: 546	(New Rf	= .395400)
29)	TRANS-1,3-DICHLOROPROPENE	RT: 18.33	Scan: 550	(New Rf	= .647691)
30)	1,1,2-TRICHLOROETHANE	RT: 18.33	Scan: 550	(New Rf	= .315615)
31)	2-CHLOROETHYL VINYLETHER	RT: 19.40	Scan: 585	(New Rf	= .155688)
32)	BROMOFORM	RT: 20.84	Scan: 632	(New Rf	= .125238)
33)	1,4-Dichlorobutane	RT: 23.44	Scan: 717	(ISTD)	
34)	4-METHYL-2-PENTANONE	RT: 21.42	Scan: 651	(New Rf	= .506807)
35)	2-HEXANONE	RT: 22.98	Scan: 702	(New Rf	= .240395)
36)	TETRACHLOROETHENE	RT: 23.17	Scan: 708	(New Rf	=1.228609)
37)	1,1,2,2-TETRACHLOROETHANE	RT: 23.14	Scan: 707	(New Rf	= .350900)
38)	TOLUENE-D8	RT: 24.27	Scan: 744	(New Rf	=4.331098)
39)	TOLUENE	RT: 24.45	Scan: 750	(New Rf	=3.353862)
40)	CHLOROBENZENE	RT: 25.56	Scan: 786	(New Rf	=3.350065)
41)	ETHYLBENZENE	RT: 27.58	Scan: 852	(New Rf	=1.971461)
42)	STYRENE	RT: 31.68	Scan: 986	(New Rf	=3.797336)
43)	META XYLENE	RT: 31.99	Scan: 996	(New Rf	=3.003921)
44)	O-&/OR P-XYLENE	RT: 33.06	Scan: 1031	(New Rf	=2.871307)

Done

Calibration Report

Title: VOLATILES CRL624NS 12\05\89
Calibrated: 900312 08:45

Compound	Files: >KH228 RF 5.00	>KH229 RF 10.00	>KH227 RF 15.00	>KH230 RF 20.00	>KH231 RF 25.00	$\overline{RRT}$	$\overline{RF}$	% RSD	
CHLOROMETHANE	3.80702	3.53658	3.61160	3.48567	3.21777	.200	3.53173	6.054	(Conc=10.0,15.0,20.0,25.0,30.0)
BROMOMETHANE	3.20651	3.04884	2.89410	3.11321	2.82599	.306	3.01773	5.181	(Conc=10.0,15.0,20.0,25.0,30.0)
VINYL CHLORIDE	4.00565	3.83484	3.73403	3.88137	3.47384	.386	3.78595	5.281	(Conc=10.0,15.0,20.0,25.0,30.0)
CHLOROETHANE	1.97239	1.84818	1.78576	1.85611	1.64720	.490	1.82193	6.514	(Conc=10.0,15.0,20.0,25.0,30.0)
METHYLENE CHLORIDE	2.27317	1.84626	1.75446	2.02581	2.36249	.696	2.05244	12.818	
ACROLEIN	.04813	.04471	.05153	.05694	.05466	.774	.05119	9.594	(Conc=225.0,300.0,375.0,450.0,525
ACETONE	.10651	.11069	.11365	.12126	.11755	.776	.11393	5.050	(Conc=225.0,300.0,375.0,450.0,525
ACRYLONITRILE	.10092	.09565	.09641	.10451	.10106	.838	.09971	3.673	(Conc=225.0,300.0,375.0,450.0,525
CARBON DISULFIDE	8.61045	8.15871	7.78451	8.36601	7.93258	.844	8.17045	4.048	(Conc=7.5,10.0,12.5,15.0,17.5)
1,1-DICHLOROETHENE	2.67875	2.05700	2.54769	2.57359	2.61226	.962	2.49386	9.990	(Conc=5.0,10.0,15.0,20.0,25.0)
1,1-DICHLOROETHANE	5.94326	4.61322	5.68903	5.89010	5.88457	1.082	5.60404	10.033	(Conc=5.0,10.0,15.0,20.0,25.0)
1,2-DICHLOROETHENE (TOTAL)	2.99358	2.26530	2.81952	2.90831	2.91845	1.147	2.78103	10.602	(Conc=5.0,10.0,15.0,20.0,25.0)
CHLOROFORM	4.58484	3.50308	4.35804	4.53941	4.49400	1.199	4.29587	10.504	(Conc=5.0,10.0,15.0,20.0,25.0)
1,2-DICHLOROETHANE-D4	2.38300	2.48654	2.52284	2.61347	2.63285	1.260	2.52774	4.009	(Conc=10.0,10.0,10.0,10.0,10.0)
1,2-DICHLOROETHANE	1.28626	1.01300	1.25520	1.31271	1.30088	1.269	1.23361	10.148	(Conc=5.0,10.0,15.0,20.0,25.0)
2-BUTANONE	.01522	.01526	.01590	.01664	.01642	.686	.01589	4.105	(Conc=75.0,100.0,125.0,150.0,175.
1,1,1-TRICHLOROETHANE	.87838	.69021	.82503	.86125	.85486	.747	.82194	9.261	(Conc=5.0,10.0,15.0,20.0,25.0)
CARBON TETRACHLORIDE	.69669	.55101	.66201	.69230	.69032	.767	.65847	9.356	(Conc=5.0,10.0,15.0,20.0,25.0)
VINYL ACETATE	.50263	.34562	.38065	.53989	.41739	.777	.43724	18.722	(Conc=22.5,30.0,37.5,45.0,52.5)
BROMODICHLOROMETHANE	.81837	.63921	.80191	.83802	.83976	.792	.78745	10.707	(Conc=5.0,10.0,15.0,20.0,25.0)
1,2-DICHLOROPROPANE	.92941	.73019	.90376	.94016	.94241	.862	.88919	10.144	(Conc=5.0,10.0,15.0,20.0,25.0)
CIS-1,3-DICHLOROPROPENE	.86965	.67645	.86740	.90956	.90605	.874	.84582	11.434	(Conc=7.0,14.0,21.0,28.0,35.0)
TRICHLOROETHENE	.83598	.66294	.80608	.83124	.86620	.902	.80049	9.970	(Conc=5.0,10.0,15.0,20.0,25.0)
BENZENE-D6	2.21683	2.26698	2.23570	2.24734	2.19896	.920	2.23316	1.182	(Conc=10.0,10.0,10.0,10.0,10.0)
BENZENE	3.04601	2.38744	2.95064	3.09747	3.09317	.927	2.91495	10.317	(Conc=5.0,10.0,15.0,20.0,25.0)
DIBROMOCHLOROMETHANE	.37344	.29523	.38587	.40345	.40941	.932	.37348	12.317	(Conc=5.0,10.0,15.0,20.0,25.0)
TRANS-1,3-DICHLOROPROPENE	.48551	.38916	.54559	.53386	.53897	.940	.49862	13.162	(Conc=3.0,6.0,9.0,12.0,15.0)
1,1,2-TRICHLOROETHANE	.32151	.23462	.28452	.31644	.32446	.939	.29631	12.826	
2-CHLOROETHYL VINYLETHER	.22677	.17484	.21756	.22077	.22443	.995	.21287	10.124	(Conc=5.0,10.0,15.0,20.0,25.0)
BROMOFORM	.12690	.10384	.14097	.14499	.15347	1.067	.13404	14.489	(Conc=5.0,10.0,15.0,20.0,25.0)
4-METHYL-2-PENTANONE	.49109	.45387	.45605	.47203	.46909	.913	.46843	3.188	(Conc=15.0,20.0,25.0,30.0,35.0)
2-HEXANONE	.24744	.23101	.24018	.25192	.25842	.979	.24579	4.315	(Conc=15.0,20.0,25.0,30.0,35.0)
TETRACHLOROETHENE	1.36882	.97245	1.17844	1.19311	1.25685	.987	1.19393	12.126	(Conc=5.0,10.0,15.0,20.0,25.0)
1,1,2,2-TETRACHLOROETHANE	.40060	.29504	.39903	.41887	.43743	.986	.39019	14.208	(Conc=5.0,10.0,15.0,20.0,25.0)
TOLUENE-D8	13.0254	12.2460	12.0477	11.4856	11.8153	1.034	12.1240	4.767	(Conc=10.0,10.0,10.0,10.0,10.0)
TOLUENE	4.04265	2.88491	3.56337	3.58125	3.70831	1.043	3.55610	11.856	(Conc=5.0,10.0,15.0,20.0,25.0)
CHLOROBENZENE	3.71952	2.65602	3.37677	3.41716	3.50412	1.090	3.33472	12.051	(Conc=5.0,10.0,15.0,20.0,25.0)
ETHYLBENZENE	2.29784	1.64656	2.04133	2.05106	2.09462	1.175	2.02628	11.664	(Conc=5.0,10.0,15.0,20.0,25.0)
STYRENE	3.69518	3.48432	3.34893	3.60607	3.49477	1.351	3.52586	3.728	(Conc=7.5,10.0,12.5,15.0,17.5)

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

Calibration Report

Title: VOLATILES CRL624NS 12\05\89
Calibrated: 900312 08:45

Compound	Files: >KH228 RF 5.00	>KH229 RF 10.00	>KH227 RF 15.00	>KH230 RF 20.00	>KH231 RF 25.00	$\overline{RRT}$	$\overline{RF}$	% RSD	
META XYLENE	2.88996	2.52879	2.53585	2.61331	2.50755	1.366	2.61509	6.072	(Conc=10.0,20.0,30.0,40.0,50.0)
O-&/OR P-XYLENE	2.81884	2.41916	2.44268	2.54691	2.41105	1.410	2.52773	6.788	(Conc=12.5,25.1,37.6,50.1,62.7)

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

QUANT REPORT

Operator ID: CHACKO Quant Rev: 6 Quant Time: 900309 12:35
Output File: ^KH228::S1 Injected at: 900309 11:55
Data File: >KH228::A8 Dilution Factor: 1.00000
Name: VSTD005
Misc: 3/09/90 20ML PURGE

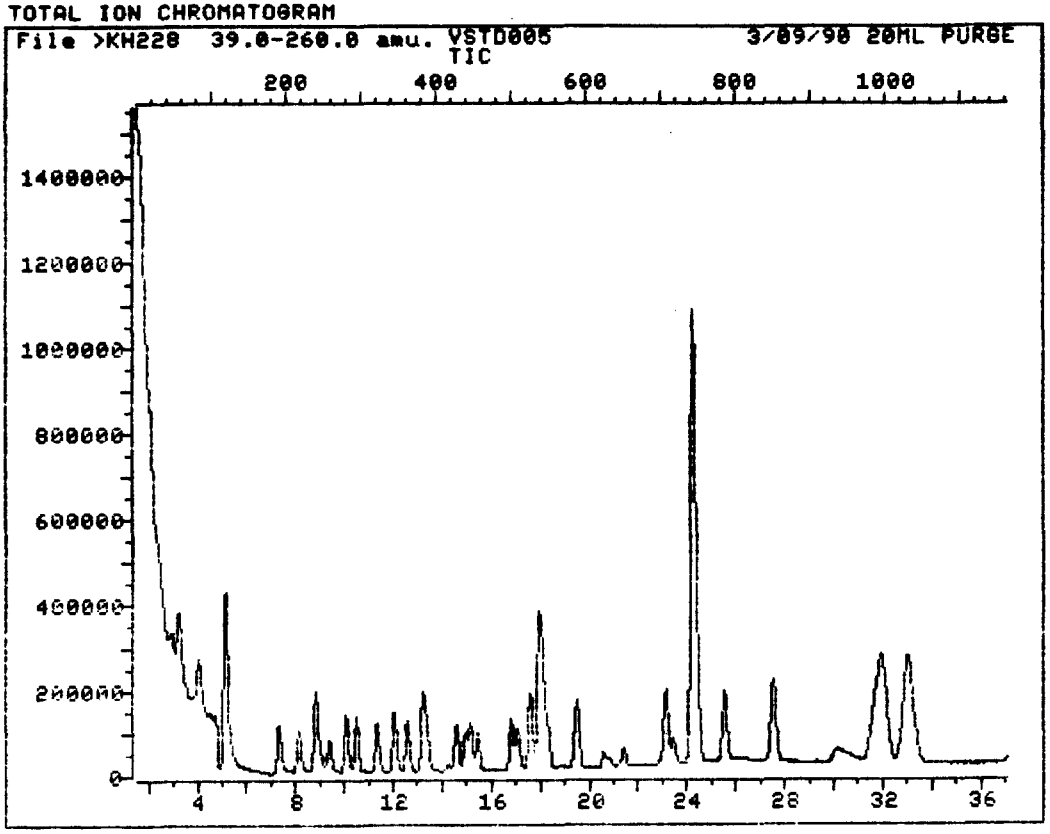
ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900309 09:33

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.51	130.0	226558	10.00	UG/L	96
2)	CHLOROMETHANE	2.09	50.0	862512	13.80	UG/L	100
3)	BROMOMETHANE	3.23	94.0	726461	11.77	UG/L	96
4)	VINYL CHLORIDE	4.05	62.0	907513	11.27	UG/L	96
5)	CHLOROETHANE	5.15	64.0	446860	11.52	UG/L	96
6)	METHYLENE CHLORIDE	7.32	84.0	257502	16.86	UG/L	89
7)	ACROLEIN	8.15	56.0	245348	203.32	UG/L	93
8)	ACETONE	8.15	43.0	542958	182.42	UG/L	95
9)	ACRYLONITRILE	8.82	53.0	514450	211.24	UG/L	98
10)	CARBON DISULFIDE	8.88	76.0	1463075	9.01	UG/L	100
11)	1,1-DICHLOROETHENE	10.11	96.0	303446	5.99	UG/L	82
12)	1,1-DICHLOROETHANE	11.36	63.0	673246	5.66	UG/L	96
13)	1,2-DICHLOROETHENE (TOTAL)	12.04	96.0	339110	6.03	UG/L	81
14)	CHLOROFORM	12.59	83.0	519366	5.59	UG/L	99
15)	1,2-DICHLOROETHANE-D4	13.23	65.0	539888	8.66	UG/L	85
16)	1,2-DICHLOROETHANE	13.32	62.0	145706	4.92	UG/L	95
17)	*2-Bromo-1-chloropropane	19.50	77.0	858706	10.00	UG/L	99
18)	2-BUTANONE	13.38	72.0	97992	66.03	UG/L	97
19)	1,1,1-TRICHLOROETHANE	14.57	97.0	377135	5.86	UG/L	97
20)	CARBON TETRACHLORIDE	14.94	117.0	299127	5.83	UG/L	98
21)	VINYL ACETATE	15.16	43.0	971127	28.05	UG/L	97
22)	BROMODICHLOROMETHANE	15.46	83.0	351370	5.29	UG/L	99
23)	1,2-DICHLOROPROPANE	16.81	63.0	399046	5.47	UG/L	99
24)	CIS-1,3-DICHLOROPROPENE	17.05	75.0	522742	7.34	UG/L	99
25)	TRICHLOROETHENE	17.60	130.0	358930	6.00	UG/L	98
26)	BENZENE-D6	17.94	84.0	1903605	10.64	UG/L	98
27)	BENZENE	18.09	78.0	1307815	5.73	UG/L	98
28)	DIBROMOCHLOROMETHANE	18.19	129.0	160339	4.93	UG/L	92
29)	TRANS-1,3-DICHLOROPROPENE	18.34	75.0	125074M	2.76	UG/L	
30)	1,1,2-TRICHLOROETHANE	18.31	97.0	138040	5.41	UG/L	98
31)	2-CHLOROETHYL VINYLETHER	19.41	63.0	97364	5.06	UG/L	94
32)	BROMOFORM	20.82	173.0	54485	4.59	UG/L	99
33)	*1,4-Dichlorobutane	23.45	55.0	363696	10.00	UG/L	98
34)	4-METHYL-2-PENTANONE	21.40	43.0	267912	15.57	UG/L	99
35)	2-HEXANONE	22.96	43.0	134991	13.95	UG/L	95
36)	TETRACHLOROETHENE	23.14	164.0	248918	7.44	UG/L	97
37)	1,1,2,2-TETRACHLOROETHANE	23.14	83.0	72848	5.38	UG/L	90
38)	TOLUENE-D8	24.25	98.0	4737284	12.91	UG/L	99
39)	TOLUENE	24.43	92.0	735147	7.10	UG/L	99
40)	CHLOROBENZENE	25.56	112.0	676387	6.67	UG/L	98
41)	ETHYLBENZENE	27.52	106.0	417858	6.97	UG/L	99
42)	STYRENE	31.66	104.0	1007941	8.86	UG/L	96
43)	META XYLENE	32.03	106.0	1051068	13.02	UG/L	94

Compound	R.T.	Q ion	Area	Conc	Units	q
44) O-&/OR P-XYLENE	33.01	106.0	1281499M	16.50	UG/L	97

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >KH228::A8 Quant Output File: ^KH228::S1
Name: VSTD005
Misc: 3/09/90 20ML PURGE

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900309 09:33

Operator ID: CHACKO
Quant Time: 900309 12:35
Injected at: 900309 11:55

QUANT REPORT

Operator ID: CHACKO Quant Rev: 6 Quant Time: 900309 13:23
Output File: ^KH229::S1 Injected at: 900309 12:42
Data File: >KH229::A8 Dilution Factor: 1.00000
Name: VSTD010
Misc: 3/09/90 20ML PURGE

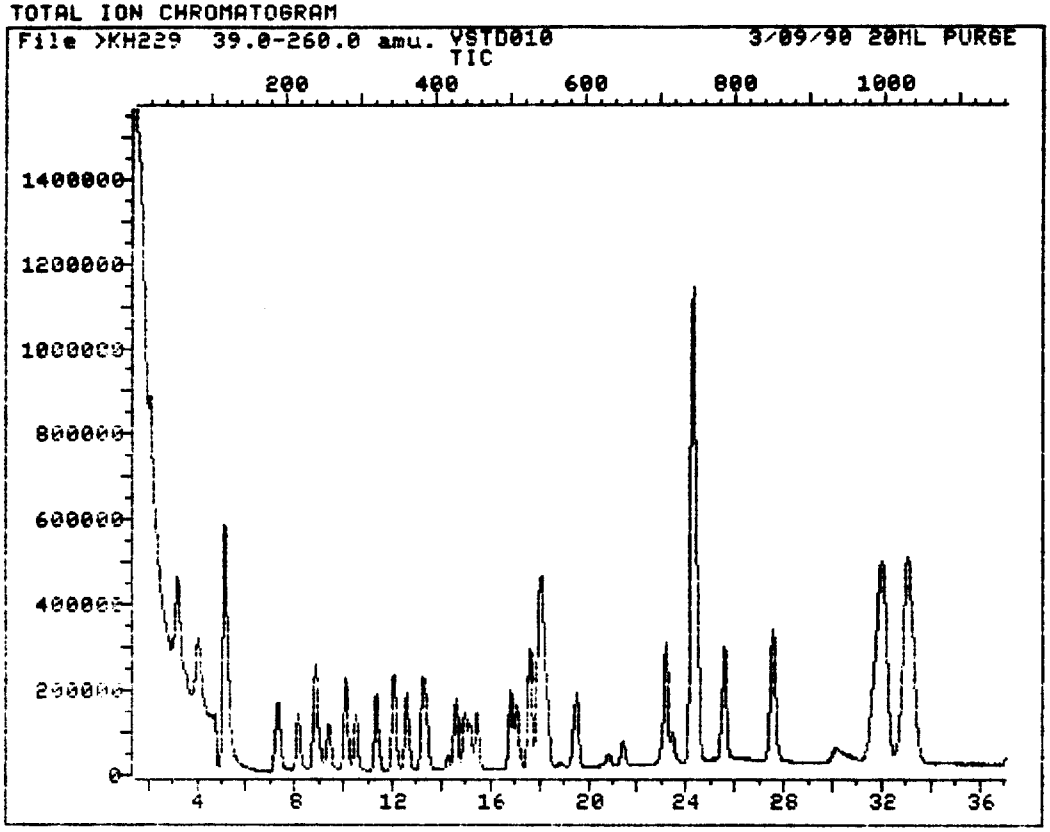
ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900309 09:33

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.51	130.0	231232	10.00	UG/L	93
2)	CHLOROMETHANE	2.10	50.0	1226656	19.23	UG/L	100
3)	BROMOMETHANE	3.20	94.0	1057484	16.78	UG/L	94
4)	VINYL CHLORIDE	4.05	62.0	1330106	16.19	UG/L	96
5)	CHLOROETHANE	5.12	64.0	641036	16.19	UG/L	95
6)	METHYLENE CHLORIDE	7.29	84.0	426914	27.38	UG/L	89
7)	ACROLEIN	8.15	56.0	310171	251.85	UG/L	95
8)	ACETONE	8.15	43.0	767822	252.75	UG/L	98
9)	ACRYLONITRILE	8.79	53.0	663523	266.94	UG/L	97
10)	CARBON DISULFIDE	8.89	76.0	1886556	11.38	UG/L	100
11)	1,1-DICHLOROETHENE	10.11	96.0	475645	9.20	UG/L	81
12)	1,1-DICHLOROETHANE	11.36	63.0	1066723	8.78	UG/L	95
13)	1,2-DICHLOROETHENE (TOTAL)	12.07	96.0	523810	9.13	UG/L	78
14)	CHLOROFORM	12.59	83.0	810025	8.54	UG/L	99
15)	1,2-DICHLOROETHANE-D4	13.23	65.0	574967	9.04	UG/L	87
16)	1,2-DICHLOROETHANE	13.35	62.0	234239	7.75	UG/L	97
17)	*2-Bromo-1-chloropropane	19.51	77.0	864819	10.00	UG/L	99
18)	2-BUTANONE	13.38	72.0	131967	88.30	UG/L	99
19)	1,1,1-TRICHLOROETHANE	14.58	97.0	596904	9.21	UG/L	98
20)	CARBON TETRACHLORIDE	14.97	117.0	476523	9.22	UG/L	97
21)	VINYL ACETATE	15.16	43.0	896693	25.72	UG/L	96
22)	BROMODICHLOROMETHANE	15.46	83.0	552798	8.27	UG/L	97
23)	1,2-DICHLOROPROPANE	16.84	63.0	631478	8.59	UG/L	97
24)	CIS-1,3-DICHLOROPROPENE	17.06	75.0	819008	11.42	UG/L	98
25)	TRICHLOROETHENE	17.61	130.0	573320	9.51	UG/L	98
26)	BENZENE-D6	17.97	84.0	1960524	10.88	UG/L	98
27)	BENZENE	18.10	78.0	2064706	8.99	UG/L	98
28)	DIBROMOCHLOROMETHANE	18.19	129.0	255324	7.79	UG/L	95
29)	TRANS-1,3-DICHLOROPROPENE	18.34	75.0	201934M	4.43	UG/L	
30)	1,1,2-TRICHLOROETHANE	18.31	97.0	202904	7.90	UG/L	99
31)	2-CHLOROETHYL VINYLETHER	19.41	63.0	151202	7.80	UG/L	96
32)	BROMOFORM	20.82	173.0	89802	7.51	UG/L	99
33)	*1,4-Dichlorobutane	23.45	55.0	395818	10.00	UG/L	97
34)	4-METHYL-2-PENTANONE	21.43	43.0	359297	19.19	UG/L	94
35)	2-HEXANONE	22.99	43.0	182872	17.37	UG/L	98
36)	TETRACHLOROETHENE	23.18	164.0	384913	10.57	UG/L	96
37)	1,1,2,2-TETRACHLOROETHANE	23.15	83.0	116783	7.92	UG/L	90
38)	TOLUENE-D8	24.28	98.0	4847201	12.14	UG/L	99
39)	TOLUENE	24.46	92.0	1141899	10.13	UG/L	99
40)	CHLOROBENZENE	25.57	112.0	1051299	9.53	UG/L	97
41)	ETHYLBENZENE	27.56	106.0	651737	9.99	UG/L	99
42)	STYRENE	31.69	104.0	1379158	11.14	UG/L	99
43)	META XYLENE	32.03	106.0	2001881	22.79	UG/L	93

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	O-&/OR P-XYLENE	33.07	106.0	2403443	28.43	UG/L	97

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >KH229::A8 Quant Output File: ^KH229::S1
Name: VSTD010
Misc: 3/09/90 20ML PURGE

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900309 09:33

Operator ID: CHACKO
Quant Time: 900309 13:23
Injected at: 900309 12:42

QUANT REPORT

Operator ID: CHACKO Quant Rev: 6 Quant Time: 900309 11:12
Output File: ^KH227::A8 Injected at: 900309 10:32
Data File: >KH227::A8 Dilution Factor: 1.00000
Name: VSTD015
Misc: 03/09/90 20ML PURGE

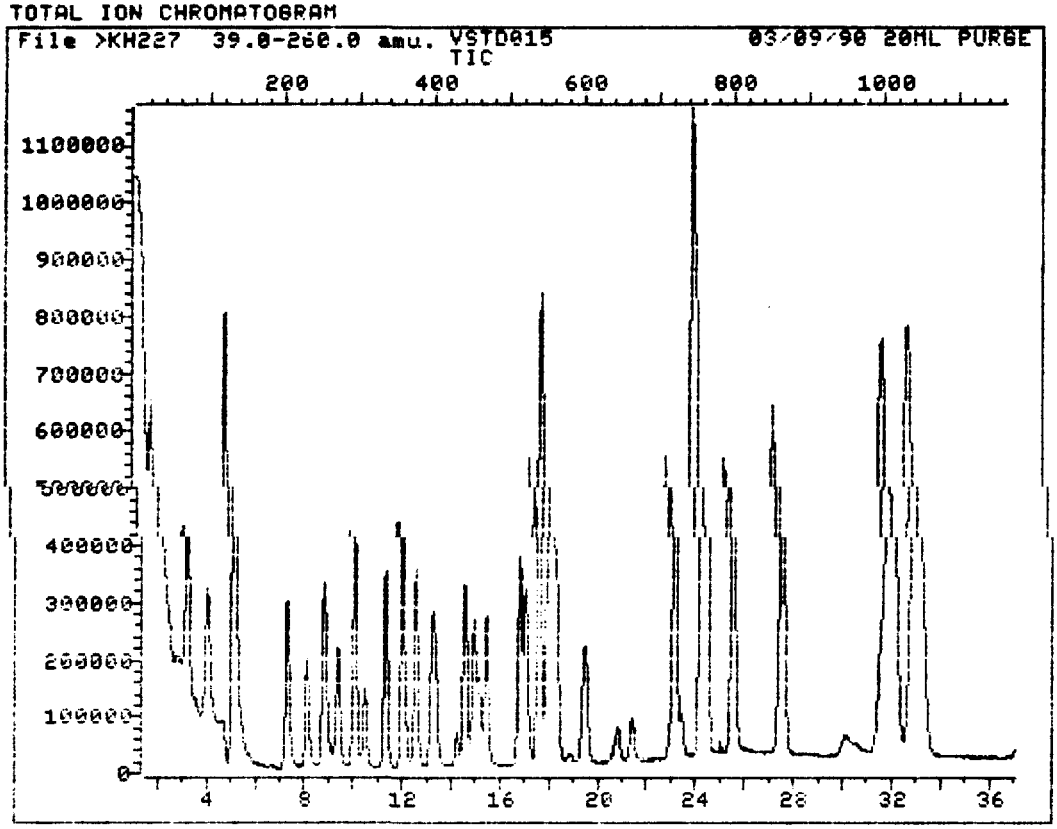
ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900309 09:33

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.49	130.0	240544	10.00	UG/L	95
2)	CHLOROMETHANE	2.11	50.0	1737495	26.19	UG/L	100
3)	BROMOMETHANE	3.21	94.0	1392318	21.24	UG/L	96
4)	VINYL CHLORIDE	4.07	62.0	1796396	21.02	UG/L	96
5)	CHLOROETHANE	5.14	64.0	859106	20.86	UG/L	96
6)	METHYLENE CHLORIDE	7.31	84.0	633038M	39.03	UG/L	88
7)	ACROLEIN	8.11	56.0	464858	362.84	UG/L	96
8)	ACETONE	8.14	43.0	1025145	324.39	UG/L	97
9)	ACRYLONITRILE	8.78	53.0	869687	336.33	UG/L	96
10)	CARBON DISULFIDE	8.84	76.0	2340646	13.57	UG/L	100
11)	1,1-DICHLOROETHENE	10.10	96.0	919248	17.10	UG/L	79
12)	1,1-DICHLOROETHANE	11.35	63.0	2052694	16.24	UG/L	95
13)	1,2-DICHLOROETHENE (TOTAL)	12.02	96.0	1017328	17.05	UG/L	81
14)	CHLOROFORM	12.61	83.0	1572449	15.94	UG/L	98
15)	1,2-DICHLOROETHANE-D4	13.22	65.0	606853	9.17	UG/L	85
16)	1,2-DICHLOROETHANE	13.31	62.0	452897	14.40	UG/L	96
17)	*2-Bromo-1-chloropropane	19.53	77.0	905106	10.00	UG/L	99
18)	2-BUTANONE	13.37	72.0	179857	114.98	UG/L	97
19)	1,1,1-TRICHLOROETHANE	14.57	97.0	1120107	16.51	UG/L	97
20)	CARBON TETRACHLORIDE	14.96	117.0	898790	16.61	UG/L	97
21)	VINYL ACETATE	15.15	43.0	1291967	35.41	UG/L	96
22)	BROMODICHLOROMETHANE	15.45	83.0	1088715	15.56	UG/L	98
23)	1,2-DICHLOROPROPANE	16.80	63.0	1227002	15.95	UG/L	98
24)	CIS-1,3-DICHLOROPROPENE	17.05	75.0	1648690	21.97	UG/L	97
25)	TRICHLOROETHENE	17.60	130.0	1094377	17.35	UG/L	97
26)	BENZENE-D6	17.93	84.0	2023547	10.73	UG/L	98
27)	BENZENE	18.09	78.0	4005969	16.66	UG/L	99
28)	DIBROMOCHLOROMETHANE	18.18	129.0	523882	15.28	UG/L	93
29)	TRANS-1,3-DICHLOROPROPENE	18.33	75.0	444435M	9.32	UG/L	
30)	1,1,2-TRICHLOROETHANE	18.30	97.0	386279M	14.36	UG/L	97
31)	2-CHLOROETHYL VINYLETHER	19.40	63.0	295368	14.57	UG/L	98
32)	BROMOFORM	20.81	173.0	191396	15.28	UG/L	96
33)	*1,4-Dichlorobutane	23.45	55.0	409505	10.00	UG/L	99
34)	4-METHYL-2-PENTANONE	21.39	43.0	466892	24.10	UG/L	96
35)	2-HEXANONE	22.95	43.0	245886	22.57	UG/L	99
36)	TETRACHLOROETHENE	23.17	164.0	723864	19.21	UG/L	97
37)	1,1,2,2-TETRACHLOROETHANE	23.11	83.0	245108	16.07	UG/L	96
38)	TOLUENE-D8	24.24	98.0	4933613	11.94	UG/L	98
39)	TOLUENE	24.46	92.0	2188826	18.78	UG/L	98
40)	CHLOROBENZENE	25.56	112.0	2074205	18.17	UG/L	98
41)	ETHYLBENZENE	27.55	106.0	1253903	18.57	UG/L	98
42)	STYRENE	31.65	104.0	1714257	13.38	UG/L	97
43)	META XYLENE	32.02	106.0	3115325	34.28	UG/L	93

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	O-&/OR P-XYLENE	33.06	106.0	3761089	43.01	UG/L	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >KH227::A8 Quant Output File: ^KH227::A8
Name: VSTD015
Misc: 03/09/90 20ML PURGE

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900309 09:33

Operator ID: CHACKO
Quant Time: 900309 11:12
Injected at: 900309 10:32

QUANT REPORT

Operator ID: CHACKO Quant Rev: 6 Quant Time: 900309 14:10
Output File: ^KH230::S1 Injected at: 900309 13:29
Data File: >KH230::A8 Dilution Factor: 1.00000
Name: VSTD020
Misc: 3/09/90 20ML PURGE

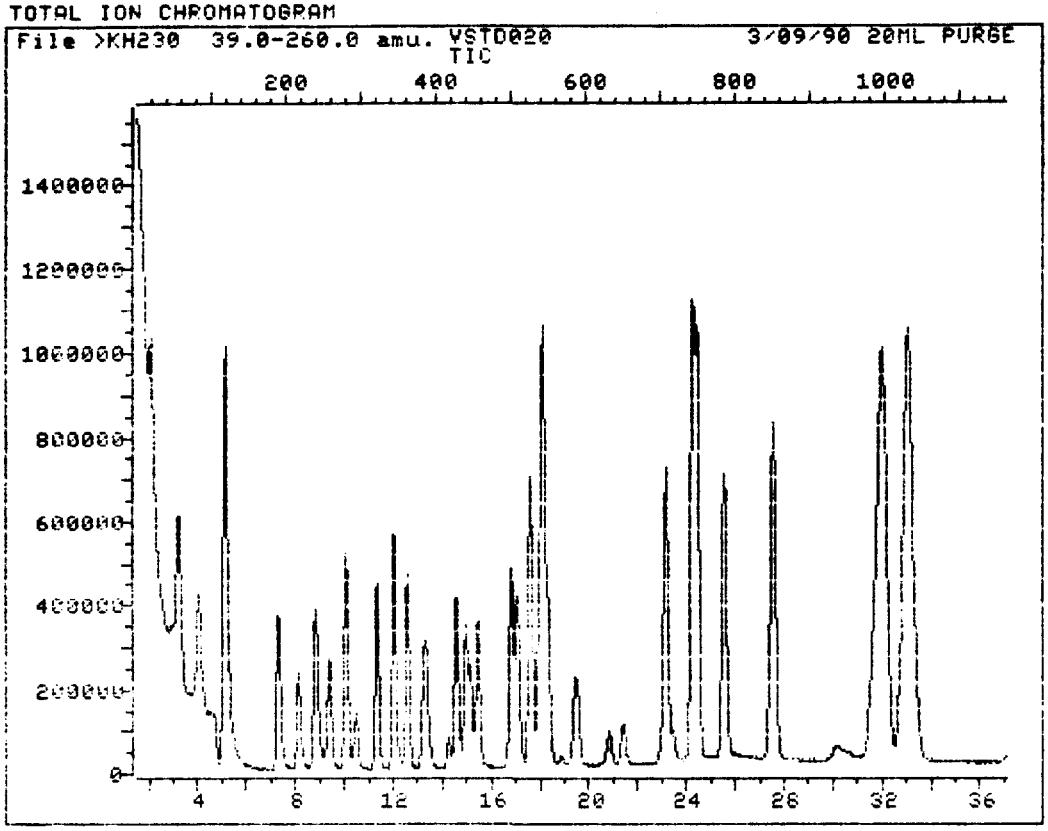
ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900309 09:33

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.48	130.0	223448	10.00	UG/L	95
2)	CHLOROMETHANE	2.10	50.0	1947164	31.59	UG/L	100
3)	BROMOMETHANE	3.23	94.0	1739099	28.56	UG/L	95
4)	VINYL CHLORIDE	4.05	62.0	2168211	27.31	UG/L	95
5)	CHLOROETHANE	5.16	64.0	1036860	27.11	UG/L	95
6)	METHYLENE CHLORIDE	7.30	84.0	905326	60.08	UG/L	88
7)	ACROLEIN	8.12	56.0	572507	481.05	UG/L	94
8)	ACETONE	8.15	43.0	1219257	415.34	UG/L	99
9)	ACRYLONITRILE	8.80	53.0	1050839	437.49	UG/L	98
10)	CARBON DISULFIDE	8.86	76.0	2804053	17.51	UG/L	100
11)	1,1-DICHLOROETHENE	10.11	96.0	1150126	23.03	UG/L	81
12)	1,1-DICHLOROETHANE	11.37	63.0	2632263	22.42	UG/L	94
13)	1,2-DICHLOROETHENE (TOTAL)	12.04	96.0	1299710	23.45	UG/L	79
14)	CHLOROFORM	12.59	83.0	2028645	22.14	UG/L	98
15)	1,2-DICHLOROETHANE-D4	13.23	65.0	583975	9.50	UG/L	88
16)	1,2-DICHLOROETHANE	13.33	62.0	586644	20.08	UG/L	97
17)	*2-Bromo-1-chloropropane	19.51	77.0	838853	10.00	UG/L	97
18)	2-BUTANONE	13.39	72.0	209418	144.46	UG/L	99
19)	1,1,1-TRICHLOROETHANE	14.58	97.0	1444917	22.97	UG/L	98
20)	CARBON TETRACHLORIDE	14.95	117.0	1161481	23.16	UG/L	98
21)	VINYL ACETATE	15.16	43.0	2038014	60.27	UG/L	95
22)	BROMODICHLOROMETHANE	15.47	83.0	1405953	21.68	UG/L	96
23)	1,2-DICHLOROPROPANE	16.81	63.0	1577315	22.12	UG/L	97
24)	CIS-1,3-DICHLOROPROPENE	17.06	75.0	2136359	30.72	UG/L	98
25)	TRICHLOROETHENE	17.61	130.0	1394579	23.85	UG/L	97
26)	BENZENE-D6	17.95	84.0	1885186	10.79	UG/L	98
27)	BENZENE	18.10	78.0	5196645	23.32	UG/L	99
28)	DIBROMOCHLOROMETHANE	18.19	129.0	676864	21.30	UG/L	94
29)	TRANS-1,3-DICHLOROPROPENE	18.35	75.0	537400M	12.16	UG/L	
30)	1,1,2-TRICHLOROETHANE	18.32	97.0	530886	21.30	UG/L	98
31)	2-CHLOROETHYL VINYLETHER	19.42	63.0	370392	19.71	UG/L	99
32)	BROMOFORM	20.83	173.0	243257	20.96	UG/L	97
33)	*1,4-Dichlorobutane	23.46	55.0	399705	10.00	UG/L	97
34)	4-METHYL-2-PENTANONE	21.41	43.0	566021	29.93	UG/L	96
35)	2-HEXANONE	22.97	43.0	302079	28.41	UG/L	96
36)	TETRACHLOROETHENE	23.15	164.0	953786	25.93	UG/L	97
37)	1,1,2,2-TETRACHLOROETHANE	23.12	83.0	334850	22.50	UG/L	96
38)	TOLUENE-D8	24.26	98.0	4590836	11.38	UG/L	98
39)	TOLUENE	24.44	92.0	2862885	25.16	UG/L	97
40)	CHLOROBENZENE	25.54	112.0	2731709	24.52	UG/L	99
41)	ETHYLBENZENE	27.56	106.0	1639640	24.88	UG/L	96
42)	STYRENE	31.70	104.0	2162049M	17.29	UG/L	96
43)	META XYLENE	32.01	106.0	4178214	47.10	UG/L	93

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	O-&/OR P-XYLENE	33.05	106.0	5100242	59.75	UG/L	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >KH230::A8 Quant Output File: ^KH230::S1
Name: VSTD020
Misc: 3/09/90 20ML PURGE

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900309 09:33

Operator ID: CHACKO
Quant Time: 900309 14:10
Injected at: 900309 13:29

QUANT REPORT

Operator ID: CHACKO Quant Rev: 6 Quant Time: 900309 14:58
Output File: ^KH231::S1 Injected at: 900309 14:17
Data File: >KH231::A8 Dilution Factor: 1.00000
Name: VSTD025
Misc: 3/09/90 20ML PURGE

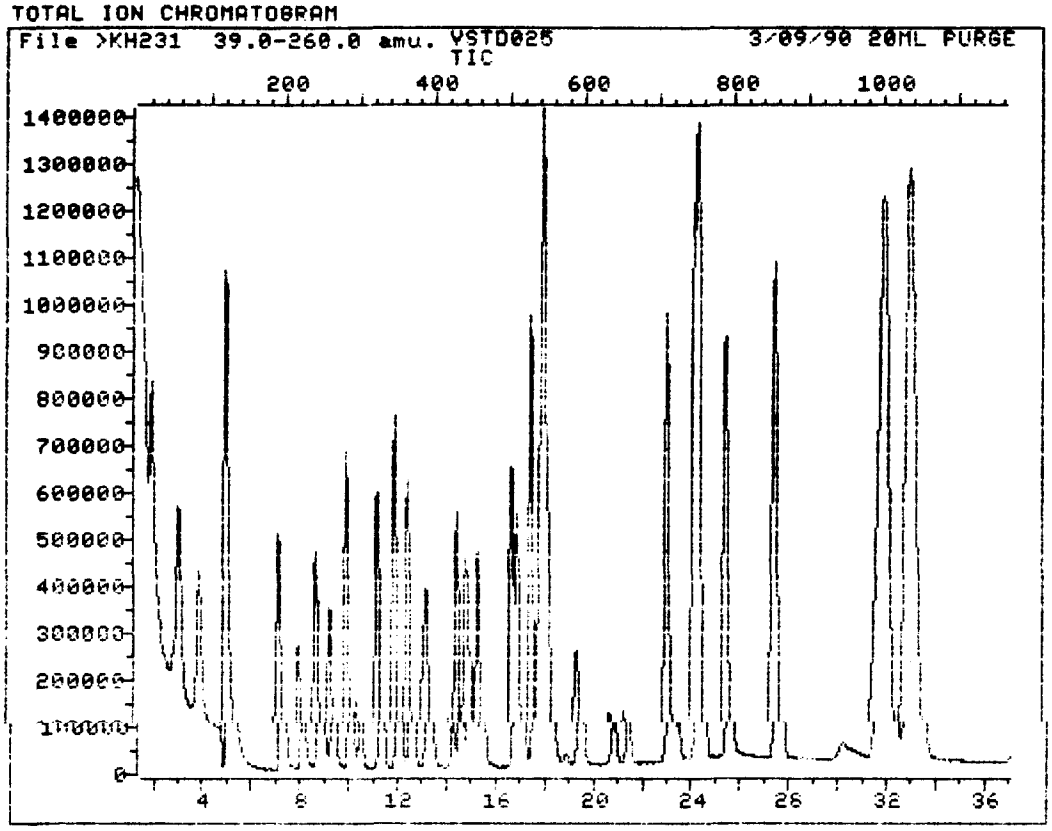
ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900309 09:33

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.51	130.0	240423	10.00	UG/L	97
2)	CHLOROMETHANE	2.10	50.0	2320881	35.00	UG/L	100
3)	BROMOMETHANE	3.20	94.0	2038300	31.11	UG/L	95
4)	VINYL CHLORIDE	4.06	62.0	2505572	29.33	UG/L	95
5)	CHLOROETHANE	5.13	64.0	1188073	28.87	UG/L	95
6)	METHYLENE CHLORIDE	7.30	84.0	1419991	87.59	UG/L	90
7)	ACROLEIN	8.12	56.0	689915	538.77	UG/L	97
8)	ACETONE	8.15	43.0	1483799	469.76	UG/L	97
9)	ACRYLONITRILE	8.80	53.0	1275547	493.54	UG/L	98
10)	CARBON DISULFIDE	8.86	76.0	3337554	19.36	UG/L	100
11)	1,1-DICHLOROETHENE	10.08	96.0	1570116	29.22	UG/L	82
12)	1,1-DICHLOROETHANE	11.37	63.0	3536966	28.00	UG/L	94
13)	1,2-DICHLOROETHENE (TOTAL)	12.04	96.0	1754155	29.42	UG/L	80
14)	CHLOROFORM	12.59	83.0	2701154	27.40	UG/L	99
15)	1,2-DICHLOROETHANE-D4	13.24	65.0	632998	9.57	UG/L	88
16)	1,2-DICHLOROETHANE	13.33	62.0	781905	24.88	UG/L	95
17)	*2-Bromo-1-chloropropane	19.54	77.0	903154	10.00	UG/L	99
18)	2-BUTANONE	13.39	72.0	259524	166.28	UG/L	98
19)	1,1,1-TRICHLOROETHANE	14.58	97.0	1930172	28.50	UG/L	98
20)	CARBON TETRACHLORIDE	14.98	117.0	1558658	28.86	UG/L	97
21)	VINYL ACETATE	15.16	43.0	1979095	54.36	UG/L	96
22)	BROMODICHLOROMETHANE	15.47	83.0	1896086	27.15	UG/L	97
23)	1,2-DICHLOROPROPANE	16.82	63.0	2127847	27.71	UG/L	97
24)	CIS-1,3-DICHLOROPROPENE	17.06	75.0	2864044	38.25	UG/L	98
25)	TRICHLOROETHENE	17.61	130.0	1955782	31.07	UG/L	96
26)	BENZENE-D6	17.95	84.0	1985995	10.55	UG/L	98
27)	BENZENE	18.10	78.0	6984017	29.11	UG/L	98
28)	DIBROMOCHLOROMETHANE	18.19	129.0	924401	27.02	UG/L	93
29)	TRANS-1,3-DICHLOROPROPENE	18.35	75.0	730154M	15.34	UG/L	
30)	1,1,2-TRICHLOROETHANE	18.35	97.0	732593	27.30	UG/L	99
31)	2-CHLOROETHYL VINYLETHER	19.42	63.0	506740	25.05	UG/L	98
32)	BROMOFORM	20.86	173.0	346517	27.73	UG/L	98
33)	*1,4-Dichlorobutane	23.49	55.0	418092	10.00	UG/L	99
34)	4-METHYL-2-PENTANONE	21.44	43.0	686429	34.70	UG/L	96
35)	2-HEXANONE	23.00	43.0	378154	34.00	UG/L	97
36)	TETRACHLOROETHENE	23.19	164.0	1313698	34.14	UG/L	97
37)	1,1,2,2-TETRACHLOROETHANE	23.16	83.0	457215	29.36	UG/L	95
38)	TOLUENE-D8	24.29	98.0	4939881	11.71	UG/L	98
39)	TOLUENE	24.50	92.0	3876038	32.57	UG/L	99
40)	CHLOROBENZENE	25.61	112.0	3662612	31.43	UG/L	99
41)	ETHYLBENZENE	27.60	106.0	2189358	31.76	UG/L	96
42)	STYRENE	31.76	104.0	2556984	19.55	UG/L	97
43)	META XYLENE	32.10	106.0	5241924	56.50	UG/L	93

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	O-&/OR P-XYLENE	33.17	106.0	6320417	70.79	UG/L	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >KH231::A8 Quant Output File: ^KH231::S1
Name: VSTD025
Misc: 3/09/90 20ML PURGE

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900309 09:33

Operator ID: CHACKO
Quant Time: 900309 14:58
Injected at: 900309 14:17

Calibration Check Report

Title: VOLATILES CRL624NS 12\05\89
Calibrated: 900312 08:45

Check Standard Data File: >KH242
Injection Time: 900313 13:25

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
CHLOROMETHANE	3.53173	4.61976	30.81	Average	(Conc=20.00)
BROMOMETHANE	3.01773	3.97470	31.71	Average	(Conc=20.00)
VINYL CHLORIDE	3.78595	5.04663	33.30	Average	(Conc=20.00)
CHLOROETHANE	1.82193	2.44437	34.16	Average	(Conc=20.00)
METHYLENE CHLORIDE	2.05244	3.36580	63.99	Average	
ACROLEIN	.05119	.05467	6.80	Average	(Conc=375.00)
ACETONE	.11393	.12078	6.01	Average	(Conc=375.00)
ACRYLONITRILE	.09971	.09900	.71	Average	(Conc=375.00)
CARBON DISULFIDE	8.17045	6.63176	18.83	Average	(Conc=12.50)
1,1-DICHLOROETHENE	2.49386	2.28021	8.57	Average	(Conc=15.00)
1,1-DICHLOROETHANE	5.60404	5.44652	2.81	Average	(Conc=15.00)
1,2-DICHLOROETHENE (TOTAL)	2.78103	2.53247	8.94	Average	(Conc=15.00)
CHLOROFORM	4.29587	4.22458	1.66	Average	(Conc=15.00)
1,2-DICHLOROETHANE-D4	2.52774	2.85941	13.12	Average	(Conc=10.00)
1,2-DICHLOROETHANE	1.23361	1.35035	9.46	Average	(Conc=15.00)
2-BUTANONE	.01589	.01483	6.63	Average	(Conc=125.00)
1,1,1-TRICHLOROETHANE	.82194	.74652	9.18	Average	(Conc=15.00)
CARBON TETRACHLORIDE	.65847	.59321	9.91	Average	(Conc=15.00)
VINYL ACETATE	.43724	.46889	7.24	Average	(Conc=37.50)
BROMODICHLOROMETHANE	.78745	.75117	4.61	Average	(Conc=15.00)
1,2-DICHLOROPROPANE	.88919	.82581	7.13	Average	(Conc=15.00)
CIS-1,3-DICHLOROPROPENE	.84582	.80738	4.54	Average	(Conc=21.00)
TRICHLOROETHENE	.80049	.67160	16.10	Average	(Conc=15.00)
BENZENE-D6	2.23316	2.00016	10.43	Average	(Conc=10.00)
BENZENE	2.91495	2.56872	11.88	Average	(Conc=15.00)
DIBROMOCHLOROMETHANE	.37348	.36517	2.23	Average	(Conc=15.00)
TRANS-1,3-DICHLOROPROPENE	.49862	.48653	2.42	Average	(Conc=9.00)
1,1,2-TRICHLOROETHANE	.29631	.39575	33.56	Average	
2-CHLOROETHYL VINYLETHER	.21287	.20822	2.18	Average	(Conc=15.00)
BROMOFORM	.13404	.12669	5.48	Average	(Conc=15.00)
4-METHYL-2-PENTANONE	.46843	.44183	5.68	Average	(Conc=25.00)
2-HEXANONE	.24579	.25448	3.53	Average	(Conc=25.00)
TETRACHLOROETHENE	1.19393	.96214	19.41	Average	(Conc=15.00)
1,1,2,2-TETRACHLOROETHANE	.39019	.33108	15.15	Average	(Conc=15.00)
TOLUENE-D8	12.1240	10.7872	11.03	Average	(Conc=10.00)
TOLUENE	3.55610	2.97786	16.26	Average	(Conc=15.00)
CHLOROBENZENE	3.33472	2.92257	12.36	Average	(Conc=15.00)
ETHYLBENZENE	2.02628	1.76514	12.89	Average	(Conc=15.00)
STYRENE	3.52586	3.02390	14.24	Average	(Conc=12.50)
META XYLENE	2.61509	2.17014	17.01	Average	(Conc=30.00)

RF - Response Factor from daily standard file at 10.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

Calibration Check Report

Title: VOLATILES CRL624NS 12\05\89
Calibrated: 900312 08:45

Check Standard Data File: >KH242
Injection Time: 900313 13:25

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
O-&/OR P-XYLENE	2.52773	2.09050	17.30	Average	(Conc=37.60)

RF - Response Factor from daily standard file at 10.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

QUANT REPORT

Operator ID: CHACKO Quant Rev: 6 Quant Time: 900313 14:06
Output File: ^KH242::A8 Injected at: 900313 13:25
Data File: >KH242::A8 Dilution Factor: 1.00000
Name: VSTD015
Misc: 03/13/90 20ML PURGE

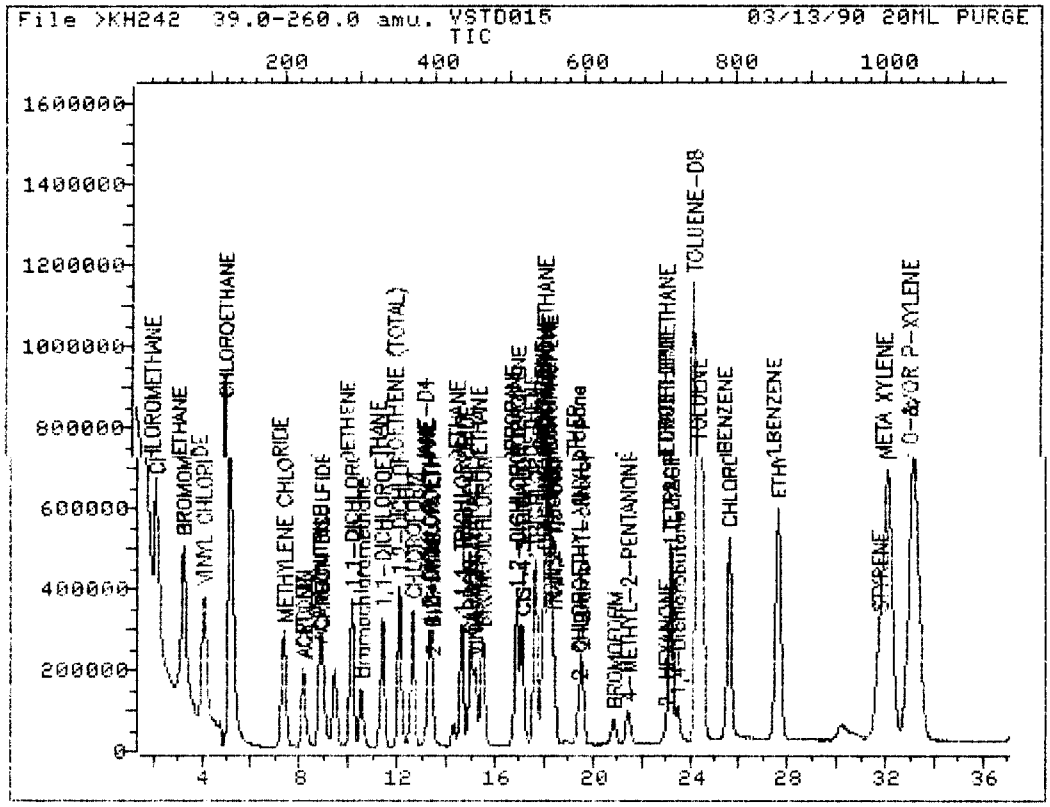
ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900312 08:50

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.54	130.0	231310	10.00	UG/L	95
2)	CHLOROMETHANE	2.12	50.0	2137194M	26.16	UG/L	100
3)	BROMOMETHANE	3.23	94.0	1838776M	26.34	UG/L	95
4)	VINYL CHLORIDE	4.08	62.0	2334673	26.66	UG/L	96
5)	CHLOROETHANE	5.15	64.0	1130814M	26.83	UG/L	96
6)	METHYLENE CHLORIDE	7.36	84.0	778543	16.40	UG/L	86
7)	ACROLEIN	8.15	56.0	474254	400.49	UG/L	97
8)	ACETONE	8.18	43.0	1047659	397.54	UG/L	99
9)	ACRYLONITRILE	8.82	53.0	858717	372.32	UG/L	98
10)	CARBON DISULFIDE	8.92	76.0	1917490	10.15	UG/L	100
11)	1,1-DICHLOROETHENE	10.14	96.0	791152	13.71	UG/L	79
12)	1,1-DICHLOROETHANE	11.39	63.0	1889751	14.58	UG/L	95
13)	1,2-DICHLOROETHENE (TOTAL)	12.10	96.0	878679	13.66	UG/L	75
14)	CHLOROFORM	12.65	83.0	1465782	14.75	UG/L	99
15)	1,2-DICHLOROETHANE-D4	13.29	65.0	661411	11.31	UG/L	86
16)	1,2-DICHLOROETHANE	13.38	62.0	468523	16.42	UG/L	95
17)	*2-Bromo-1-chloropropane	19.55	77.0	936346	10.00	UG/L	99
18)	2-BUTANONE	13.44	72.0	173617	116.71	UG/L	98
19)	1,1,1-TRICHLOROETHANE	14.64	97.0	1048505	13.62	UG/L	97
20)	CARBON TETRACHLORIDE	15.01	117.0	833175	13.51	UG/L	98
21)	VINYL ACETATE	15.19	43.0	1646397	40.21	UG/L	95
22)	BROMODICHLOROMETHANE	15.50	83.0	1055039	14.31	UG/L	98
23)	1,2-DICHLOROPROPANE	16.87	63.0	1159861	13.93	UG/L	98
24)	CIS-1,3-DICHLOROPROPENE	17.12	75.0	1587571	20.05	UG/L	98
25)	TRICHLOROETHENE	17.64	130.0	943282	12.58	UG/L	97
26)	BENZENE-D6	18.01	84.0	1872846	8.96	UG/L	98
27)	BENZENE	18.13	78.0	3607817	13.22	UG/L	99
28)	DIBROMOCHLOROMETHANE	18.22	129.0	512883	14.67	UG/L	95
29)	TRANS-1,3-DICHLOROPROPENE	18.37	75.0	410006M	8.78	UG/L	
30)	1,1,2-TRICHLOROETHANE	18.34	97.0	370557M	13.36	UG/L	96
31)	2-CHLOROETHYL VINYLETHER	19.43	63.0	292452	14.67	UG/L	98
32)	BROMOFORM	20.88	173.0	177933	14.18	UG/L	96
33)	*1,4-Dichlorobutane	23.49	55.0	444588	10.00	UG/L	98
34)	4-METHYL-2-PENTANONE	21.46	43.0	491076	23.58	UG/L	97
35)	2-HEXANONE	23.01	43.0	282842	25.88	UG/L	99
36)	TETRACHLOROETHENE	23.20	164.0	641635	12.09	UG/L	96
37)	1,1,2,2-TETRACHLOROETHANE	23.17	83.0	220794	12.73	UG/L	97
38)	TOLUENE-D8	24.32	98.0	4795841	8.90	UG/L	99
39)	TOLUENE	24.50	92.0	1985881	12.56	UG/L	98
40)	CHLOROBENZENE	25.60	112.0	1949012	13.15	UG/L	99
41)	ETHYLBENZENE	27.61	106.0	1177140	13.07	UG/L	97
42)	STYRENE	31.76	104.0	1680488	10.72	UG/L	96
43)	META XYLENE	32.07	106.0	2894460	24.90	UG/L	94

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	O-&/OR P-XYLENE	33.16	106.0	3494578	31.10	UG/L	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >KH242::A8 Quant Output File: ^KH242::A8
Name: VSTD015
Misc: 03/13/90 20ML PURGE

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900312 08:50

Operator ID: CHACKO
Quant Time: 900313 14:06
Injected at: 900313 13:25

Calibration Report

Title: VOLATILES CRL624NS 12\05\89
Calibrated: 900315 10:27

Compound	Files: >CJ188 RF 5.00	>CJ189 RF 10.00	>CJ190 RF 15.00	>CJ191 RF 20.00	>CJ192 RF 25.00	$\overline{RRT}$	$\overline{RF}$	% RSD	
CHLOROMETHANE	3.41702	2.90019	3.24820	4.81351	4.62052	.200	3.79989	22.643	(Conc=10.0,15.0,20.0,25.0,30.0)
BROMOMETHANE	2.72685	3.04507	2.56182	3.38720	3.39944	.305	3.02407	12.540	(Conc=10.0,15.0,20.0,25.0,30.0)
VINYL CHLORIDE	3.61790	4.05738	3.20895	4.67563	4.53022	.384	4.01802	15.297	(Conc=10.0,15.0,20.0,25.0,30.0)
CHLOROETHANE	1.85521	1.99934	1.57424	2.37627	2.18898	.488	1.99881	15.411	(Conc=10.0,15.0,20.0,25.0,30.0)
METHYLENE CHLORIDE	.71785	.86835	2.11892	2.09319	2.55856	.695	1.67137	49.332	(Conc=5.0,10.0,15.0,20.0,25.0)
ACROLEIN	.09413	.09649	.05987	.11077	.08857	.775	.08996	20.798	(Conc=225.0,300.0,375.0,450.0,525.
ACETONE	.15145	.16132	.10323	.16000	.13834	.777	.14287	16.783	(Conc=225.0,300.0,375.0,450.0,525.
ACRYLONITRILE	.22754	.24658	.17002	.24939	.22356	.839	.22342	14.293	(Conc=225.0,300.0,375.0,450.0,525.
CARBON DISULFIDE	11.6955	11.3591	10.6965	13.6440	14.1941	.843	12.3178	12.322	(Conc=7.5,10.0,12.5,15.0,17.5)
1,1-DICHLOROETHENE	2.50739	2.86627	2.52036	2.52557	3.26337	.963	2.73659	12.094	(Conc=5.0,10.0,15.0,20.0,25.0)
1,1-DICHLOROETHANE	5.90601	6.89899	5.37684	5.79819	6.91468	1.083	6.17894	11.220	(Conc=5.0,10.0,15.0,20.0,25.0)
1,2-DICHLOROETHENE (TOTAL)	2.49695	2.86999	2.44690	2.50025	3.13288	1.149	2.68940	11.169	(Conc=5.0,10.0,15.0,20.0,25.0)
CHLOROFORM	4.55515	5.35569	4.05152	4.36940	5.14828	1.201	4.69601	11.574	(Conc=5.0,10.0,15.0,20.0,25.0)
1,2-DICHLOROETHANE-D4	1.17038	1.26966	1.05650	1.32645	1.26117	1.262	1.21683	8.681	(Conc=10.0,10.0,10.0,10.0,10.0)
1,2-DICHLOROETHANE	1.33544	1.64106	1.06816	1.23199	1.36622	1.271	1.32857	15.800	(Conc=5.0,10.0,15.0,20.0,25.0)
2-BUTANONE	.01689	.01753	.01305	.01709	.01593	.687	.01610	11.199	(Conc=75.0,100.0,125.0,150.0,175.0
1,1,1-TRICHLOROETHANE	.81809	.93962	.78066	.80028	.98751	.748	.86523	10.668	(Conc=5.0,10.0,15.0,20.0,25.0)
CARBON TETRACHLORIDE	.67291	.78491	.67434	.68142	.84257	.766	.73123	10.680	(Conc=5.0,10.0,15.0,20.0,25.0)
VINYL ACETATE	.31245	.33841	.20739	.48400	.19666	.778	.30778	37.903	(Conc=22.5,30.0,37.5,45.0,52.5)
BROMODICHLOROMETHANE	.70566	.83991	.65112	.63309	.76708	.792	.71937	11.856	(Conc=5.0,10.0,15.0,20.0,25.0)
1,2-DICHLOROPROPANE	.87429	1.03773	.83110	.79114	.96558	.862	.89997	11.185	(Conc=5.0,10.0,15.0,20.0,25.0)
CIS-1,3-DICHLOROPROPENE	.69352	.83394	.65507	.63075	.75713	.875	.71408	11.520	(Conc=7.0,14.0,21.0,28.0,35.0)
TRICHLOROETHENE	.72018	.83999	.81596	.70433	.96024	.902	.80814	12.789	(Conc=5.0,10.0,15.0,20.0,25.0)
BENZENE-D6	2.09353	2.07905	2.25242	2.21814	2.22496	.920	2.17362	3.722	(Conc=10.0,10.0,10.0,10.0,10.0)
BENZENE	2.48444	2.85254	2.49567	2.35121	3.01656	.928	2.64009	10.636	(Conc=5.0,10.0,15.0,20.0,25.0)
DIBROMOCHLOROMETHANE	.34573	.43625	.34267	.32479	.39989	.931	.36987	12.582	(Conc=5.0,10.0,15.0,20.0,25.0)
TRANS-1,3-DICHLOROPROPENE	.60495	.73846	.54929	.54698	.65428	.939	.61879	12.969	(Conc=3.0,6.0,9.0,12.0,15.0)
1,1,2-TRICHLOROETHANE	.29788	.35312	.27599	.26405	.31681	.938	.30157	11.683	(Conc=5.0,10.0,15.0,20.0,25.0)
2-CHLOROETHYL VINYLETHER	.17069	.18834	.13712	.13501	.15608	.995	.15745	14.372	(Conc=5.0,10.0,15.0,20.0,25.0)
BROMOFORM	.10964	.14008	.10986	.10116	.12808	1.067	.11777	13.483	(Conc=5.0,10.0,15.0,20.0,25.0)
4-METHYL-2-PENTANONE	.44537	.47202	.37465	.47612	.44531	.913	.44269	9.190	(Conc=15.0,20.0,25.0,30.0,35.0)
2-HEXANONE	.25470	.26733	.18814	.23775	.22207	.979	.23400	13.171	(Conc=15.0,20.0,25.0,30.0,35.0)
TETRACHLOROETHENE	.84301	.96274	1.10655	.88810	1.27723	.987	1.01553	17.446	(Conc=5.0,10.0,15.0,20.0,25.0)
1,1,2,2-TETRACHLOROETHANE	.25123	.33230	.27637	.26976	.32429	.986	.29079	12.231	(Conc=5.0,10.0,15.0,20.0,25.0)
TOLUENE-D8	3.45678	3.40558	4.41670	3.89907	4.31377	1.035	3.89838	12.025	(Conc=10.0,10.0,10.0,10.0,10.0)
TOLUENE	2.44927	2.80315	2.94015	2.48675	3.38370	1.042	2.81260	13.547	(Conc=5.0,10.0,15.0,20.0,25.0)
CHLOROBENZENE	2.49523	2.96419	2.94121	2.54191	3.38819	1.089	2.86615	12.706	(Conc=5.0,10.0,15.0,20.0,25.0)
ETHYLBENZENE	1.41253	1.67566	1.71193	1.50678	2.02168	1.175	1.66572	14.025	(Conc=5.0,10.0,15.0,20.0,25.0)
STYRENE	2.84068	3.04995	2.94353	3.50142	3.53941	1.351	3.17500	10.210	(Conc=7.5,10.0,12.5,15.0,17.5)

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

Calibration Report

Title: VOLATILES CRL624NS 12\05\89
Calibrated: 900315 10:27

Compound	Files: >CJ188 RF 5.00	>CJ189 RF 10.00	>CJ190 RF 15.00	>CJ191 RF 20.00	>CJ192 RF 25.00	$\overline{RRT}$	$\overline{RF}$	% RSD	
CHLOROMETHANE	3.41702	2.90019	3.24820	4.81351	4.62052	.200	3.79989	22.643	(Conc=10.0,15.0,20.0,25.0,30.0)
BROMOMETHANE	2.72685	3.04507	2.56182	3.38720	3.39944	.305	3.02407	12.540	(Conc=10.0,15.0,20.0,25.0,30.0)
VINYL CHLORIDE	3.61790	4.05738	3.20895	4.67563	4.53022	.384	4.01802	15.297	(Conc=10.0,15.0,20.0,25.0,30.0)
CHLOROETHANE	1.85521	1.99934	1.57424	2.37627	2.18898	.488	1.99881	15.411	(Conc=10.0,15.0,20.0,25.0,30.0)
METHYLENE CHLORIDE	.71785	.86835	2.11892	2.09319	2.55856	.695	1.67137	49.332	(Conc=5.0,10.0,15.0,20.0,25.0)
ACROLEIN	.09413	.09649	.05987	.11077	.08857	.775	.08996	20.798	(Conc=225.0,300.0,375.0,450.0,525.
ACETONE	.15145	.16132	.10323	.16000	.13834	.777	.14287	16.783	(Conc=225.0,300.0,375.0,450.0,525.
ACRYLONITRILE	.22754	.24658	.17002	.24939	.22356	.839	.22342	14.293	(Conc=225.0,300.0,375.0,450.0,525.
CARBON DISULFIDE	11.6955	11.3591	10.6965	13.6440	14.1941	.843	12.3178	12.322	(Conc=7.5,10.0,12.5,15.0,17.5)
1,1-DICHLOROETHENE	2.50739	2.86627	2.52036	2.52557	3.26337	.963	2.73659	12.094	(Conc=5.0,10.0,15.0,20.0,25.0)
1,1-DICHLOROETHANE	5.90601	6.89899	5.37684	5.79819	6.91468	1.083	6.17894	11.220	(Conc=5.0,10.0,15.0,20.0,25.0)
1,2-DICHLOROETHENE (TOTAL)	2.49695	2.86999	2.44690	2.50025	3.13288	1.149	2.68940	11.169	(Conc=5.0,10.0,15.0,20.0,25.0)
CHLOROFORM	4.55515	5.35569	4.05152	4.36940	5.14828	1.201	4.69601	11.574	(Conc=5.0,10.0,15.0,20.0,25.0)
1,2-DICHLOROETHANE-D4	1.17038	1.26966	1.05650	1.32645	1.26117	1.262	1.21683	8.681	(Conc=10.0,10.0,10.0,10.0,10.0)
1,2-DICHLOROETHANE	1.33544	1.64106	1.06816	1.23199	1.36622	1.271	1.32857	15.800	(Conc=5.0,10.0,15.0,20.0,25.0)
2-BUTANONE	.01689	.01753	.01305	.01709	.01593	.687	.01610	11.199	(Conc=75.0,100.0,125.0,150.0,175.0
1,1,1-TRICHLOROETHANE	.81809	.93962	.78066	.80028	.98751	.748	.86523	10.668	(Conc=5.0,10.0,15.0,20.0,25.0)
CARBON TETRACHLORIDE	.67291	.78491	.67434	.68142	.84257	.766	.73123	10.680	(Conc=5.0,10.0,15.0,20.0,25.0)
VINYL ACETATE	.31245	.33841	.20739	.48400	.19666	.778	.30778	37.903	(Conc=22.5,30.0,37.5,45.0,52.5)
BROMODICHLOROMETHANE	.70566	.83991	.65112	.63309	.76708	.792	.71937	11.856	(Conc=5.0,10.0,15.0,20.0,25.0)
1,2-DICHLOROPROPANE	.87429	1.03773	.83110	.79114	.96558	.862	.89997	11.185	(Conc=5.0,10.0,15.0,20.0,25.0)
CIS-1,3-DICHLOROPROPENE	.69352	.83394	.65507	.63075	.75713	.875	.71408	11.520	(Conc=7.0,14.0,21.0,28.0,35.0)
TRICHLOROETHENE	.72018	.83999	.81596	.70433	.96024	.902	.80814	12.789	(Conc=5.0,10.0,15.0,20.0,25.0)
BENZENE-D6	2.09353	2.07905	2.25242	2.21814	2.22496	.920	2.17362	3.722	(Conc=10.0,10.0,10.0,10.0,10.0)
BENZENE	2.48444	2.85254	2.49567	2.35121	3.01656	.928	2.64009	10.636	(Conc=5.0,10.0,15.0,20.0,25.0)
DIBROMOCHLOROMETHANE	.34573	.43625	.34267	.32479	.39989	.931	.36987	12.582	(Conc=5.0,10.0,15.0,20.0,25.0)
TRANS-1,3-DICHLOROPROPENE	.60495	.73846	.54929	.54698	.65428	.939	.61879	12.969	(Conc=3.0,6.0,9.0,12.0,15.0)
1,1,2-TRICHLOROETHANE	.29788	.35312	.27599	.26405	.31681	.938	.30157	11.683	(Conc=5.0,10.0,15.0,20.0,25.0)
2-CHLOROETHYL VINYLETHER	.17069	.18834	.13712	.13501	.15608	.995	.15745	14.372	(Conc=5.0,10.0,15.0,20.0,25.0)
BROMOFORM	.10964	.14008	.10986	.10116	.12808	1.067	.11777	13.483	(Conc=5.0,10.0,15.0,20.0,25.0)
4-METHYL-2-PENTANONE	.44537	.47202	.37465	.47612	.44531	.913	.44269	9.190	(Conc=15.0,20.0,25.0,30.0,35.0)
2-HEXANONE	.25470	.26733	.18814	.23775	.22207	.979	.23400	13.171	(Conc=15.0,20.0,25.0,30.0,35.0)
TETRACHLOROETHENE	.84301	.96274	1.10655	.88810	1.27723	.987	1.01553	17.446	(Conc=5.0,10.0,15.0,20.0,25.0)
1,1,2,2-TETRACHLOROETHANE	.25123	.33230	.27637	.26976	.32429	.986	.29079	12.231	(Conc=5.0,10.0,15.0,20.0,25.0)
TOLUENE-D8	3.45678	3.40558	4.41670	3.89907	4.31377	1.035	3.89838	12.025	(Conc=10.0,10.0,10.0,10.0,10.0)
TOLUENE	2.44927	2.80315	2.94015	2.48675	3.38370	1.042	2.81260	13.547	(Conc=5.0,10.0,15.0,20.0,25.0)
CHLOROBENZENE	2.49523	2.96419	2.94121	2.54191	3.38819	1.089	2.86615	12.706	(Conc=5.0,10.0,15.0,20.0,25.0)
ETHYLBENZENE	1.41253	1.67566	1.71193	1.50678	2.02168	1.175	1.66572	14.025	(Conc=5.0,10.0,15.0,20.0,25.0)
STYRENE	2.84068	3.04995	2.94353	3.50142	3.53941	1.351	3.17500	10.210	(Conc=7.5,10.0,12.5,15.0,17.5)

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

Calibration Report

Title: VOLATILES CRL624NS 12\05\89
Calibrated: 900315 10:27

Compound	Files: >CJ188 RF 5.00	>CJ189 RF 10.00	>CJ190 RF 15.00	>CJ191 RF 20.00	>CJ192 RF 25.00	$\overline{RRT}$	$\overline{RF}$	% RSD	
META XYLENE	2.11037	2.34019	2.24067	2.68534	2.62215	1.366	2.39975	10.284	(Conc=10.0,20.0,30.0,40.0,50.0)
O-&/OR P-XYLENE	2.08364	2.23911	2.10526	2.57813	2.46248	1.410	2.29372	9.552	(Conc=12.5,25.1,37.6,50.1,62.7)

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

QUANT REPORT

Operator ID: CHACKO Quant Rev: 6 Quant Time: 900314 10:22
Output File: ^CJ188::A4 Injected at: 900314 09:41
Data File: >CJ188::A4 Dilution Factor: 1.00000
Name: VOASTD05PPB
Misc: 031490 20 ML

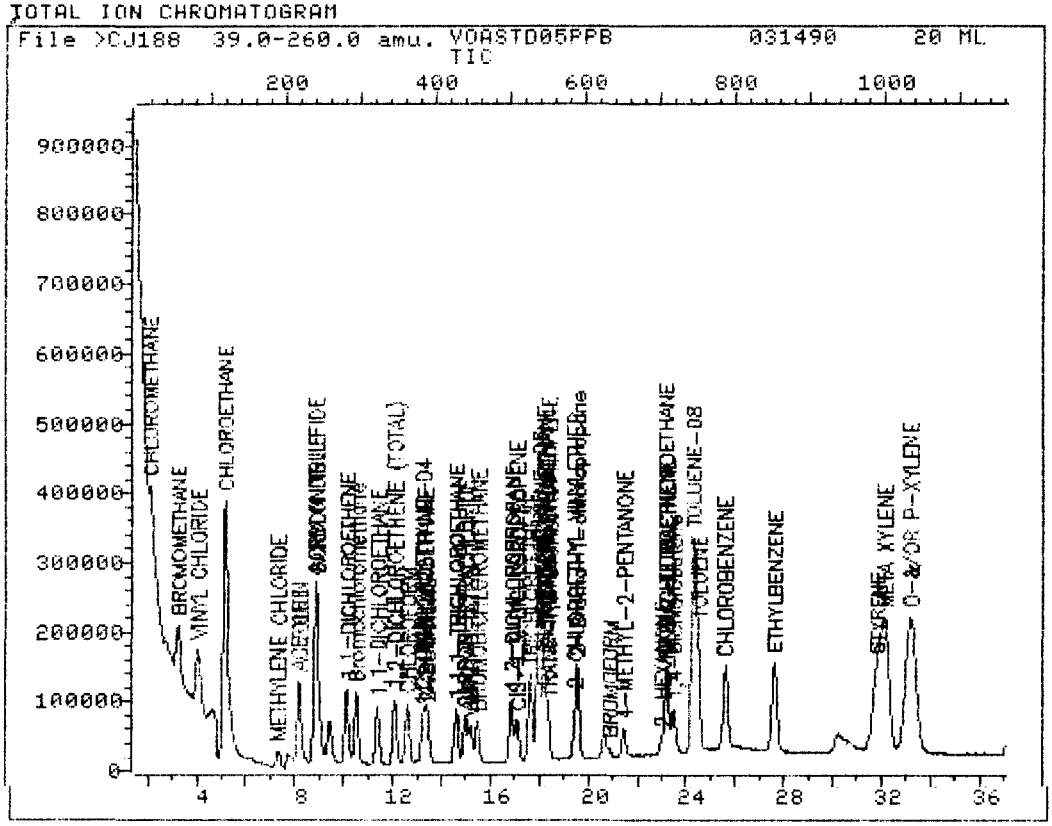
ID File: IDCJ3C::D3
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900213 08:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.50	130.0	167722	10.00	UG/L	98
2)	CHLOROMETHANE	2.09	50.0	573110	13.36	UG/L	100
3)	BROMOMETHANE	3.22	94.0	457353	12.04	UG/L	95
4)	VINYL CHLORIDE	4.05	62.0	606801	12.98	UG/L	96
5)	CHLOROETHANE	5.15	64.0	311159	13.69	UG/L	96
6)	METHYLENE CHLORIDE	7.32	84.0	60200	5.31	UG/L	80
7)	ACROLEIN	8.18	56.0	355215	344.94	UG/L	94
8)	ACETONE	8.18	43.0	571544	294.05	UG/L	99
9)	ACRYLONITRILE	8.85	53.0	858692	257.34	UG/L	99
10)	CARBON DISULFIDE	8.88	76.0	1471193	14.01	UG/L	100
11)	1,1-DICHLOROETHENE	10.14	96.0	210272	6.83	UG/L	75
12)	1,1-DICHLOROETHANE	11.39	63.0	495284	7.52	UG/L	93
13)	1,2-DICHLOROETHENE (TOTAL)	12.10	96.0	209397	5.55	UG/L	75
14)	CHLOROFORM	12.62	83.0	381999	7.52	UG/L	99
15)	1,2-DICHLOROETHANE-D4	13.26	65.0	196298	12.67	UG/L	87
16)	1,2-DICHLOROETHANE	13.35	62.0	111991	6.66	UG/L	93
17)	*2-Bromo-1-chloropropane	19.56	77.0	667292	10.00	UG/L	99
18)	2-BUTANONE	13.44	72.0	84525	74.42	UG/L	97
19)	1,1,1-TRICHLOROETHANE	14.60	97.0	272953	6.04	UG/L	97
20)	CARBON TETRACHLORIDE	14.97	117.0	224514	7.43	UG/L	95
21)	VINYL ACETATE	15.22	43.0	469119	12.55	UG/L	95
22)	BROMODICHLOROMETHANE	15.49	83.0	235439	5.18	UG/L	97
23)	1,2-DICHLOROPROPANE	16.87	63.0	291704	6.20	UG/L	98
24)	CIS-1,3-DICHLOROPROPENE	17.11	75.0	323946	6.71	UG/L	99
25)	TRICHLOROETHENE	17.63	130.0	240284	5.88	UG/L	96
26)	BENZENE-D6	18.00	84.0	1396994	8.87	UG/L	99
27)	BENZENE	18.15	78.0	828925	4.83	UG/L	98
28)	DIBROMOCHLOROMETHANE	18.21	129.0	115353	5.55	UG/L	94
29)	TRANS-1,3-DICHLOROPROPENE	18.37	75.0	121104M	3.07	UG/L	
30)	1,1,2-TRICHLOROETHANE	18.34	97.0	99388	5.86	UG/L	99
31)	2-CHLOROETHYL VINYLETHER	19.47	63.0	56951	6.88	UG/L	96
32)	BROMOFORM	20.88	173.0	36581	4.01	UG/L	98
33)	*1,4-Dichlorobutane	23.51	55.0	375919	10.00	UG/L	95
34)	4-METHYL-2-PENTANONE	21.46	43.0	251135	14.27	UG/L	96
35)	2-HEXANONE	23.02	43.0	143620	13.42	UG/L	97
36)	TETRACHLOROETHENE	23.20	164.0	158452	4.97	UG/L	97
37)	1,1,2,2-TETRACHLOROETHANE	23.17	83.0	47222	3.56	UG/L	98
38)	TOLUENE-D8	24.30	98.0	1299469	8.58	UG/L	99
39)	TOLUENE	24.49	92.0	460363	4.25	UG/L	94
40)	CHLOROBENZENE	25.59	112.0	469002	5.10	UG/L	98
41)	ETHYLBENZENE	27.61	106.0	265499	4.36	UG/L	96
42)	STYRENE	31.81	104.0	800898	6.91	UG/L	99
43)	META XYLENE	32.14	106.0	793328	14.89	UG/L	95

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	O-&/OR P-XYLENE	33.18	106.0	979098	19.15	UG/L	97

* Compound is ISTD

TOTAL ION CHROMATOGRAM



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Misc: 031490 20 ML

Id File: IDCJ3C::D3
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900213 08:30

Operator ID: CHACKO
Quant Time: 900314 10:22
Injected at: 900314 09:41

QUANT REPORT

Operator ID: CHACKO Quant Rev: 6 Quant Time: 900314 11:09
Output File: ^CJ189::A4 Injected at: 900314 10:29
Data File: >CJ189::A4 Dilution Factor: 1.00000
Name: VOASTD10PPB
Misc: 031490 20 ML

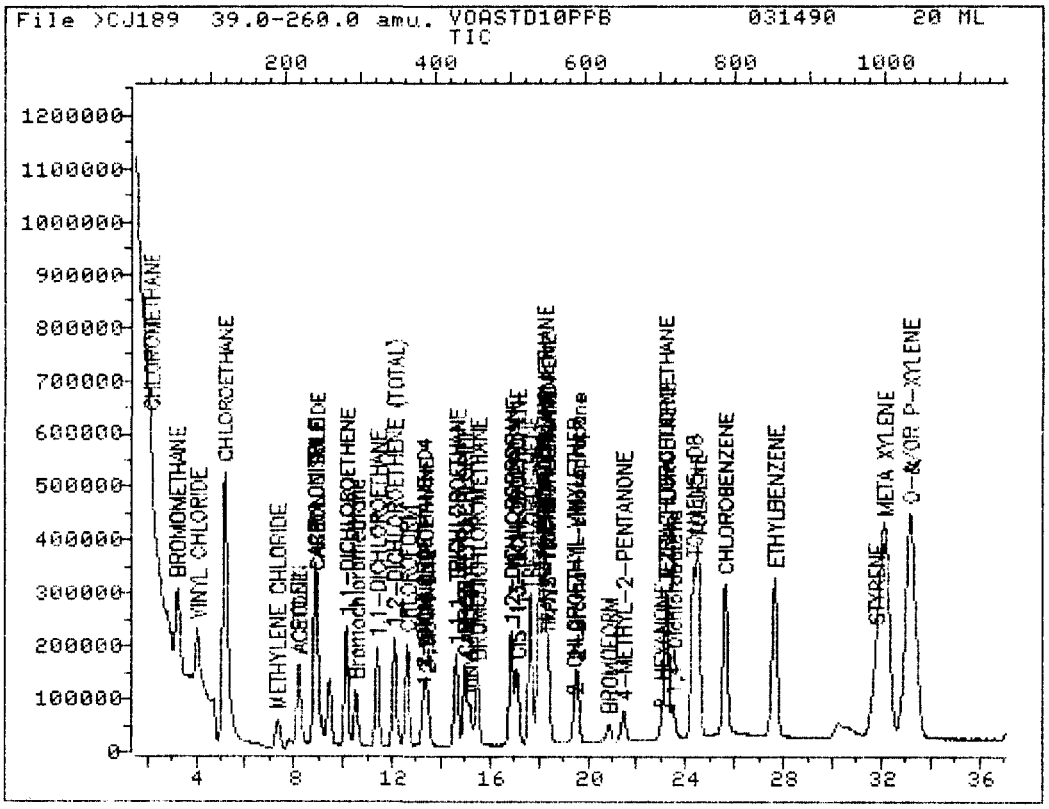
ID File: IDCJ3C::D3
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900213 08:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.53	130.0	161417	10.00	UG/L	96
2)	CHLOROMETHANE	2.12	50.0	702209	17.00	UG/L	100
3)	BROMOMETHANE	3.22	94.0	737288	20.17	UG/L	94
4)	VINYL CHLORIDE	4.05	62.0	982396	21.84	UG/L	96
5)	CHLOROETHANE	5.15	64.0	484092	22.13	UG/L	95
6)	METHYLENE CHLORIDE	7.32	84.0	140166	12.85	UG/L	82
7)	ACROLEIN	8.17	56.0	467235	471.44	UG/L	97
8)	ACETONE	8.21	43.0	781212	417.61	UG/L	99
9)	ACRYLONITRILE	8.85	53.0	1194063	371.83	UG/L	98
10)	CARBON DISULFIDE	8.91	76.0	1833544	18.14	UG/L	100
11)	1,1-DICHLOROETHENE	10.13	96.0	462664	15.61	UG/L	75
12)	1,1-DICHLOROETHANE	11.39	63.0	1113615	17.56	UG/L	96
13)	1,2-DICHLOROETHENE (TOTAL)	12.09	96.0	463265	12.76	UG/L	74
14)	CHLOROFORM	12.64	83.0	864499	17.68	UG/L	98
15)	1,2-DICHLOROETHANE-D4	13.28	65.0	204945	13.74	UG/L	87
16)	1,2-DICHLOROETHANE	13.38	62.0	264895	16.36	UG/L	94
17)	*2-Bromo-1-chloropropane	19.56	77.0	651633	10.00	UG/L	99
18)	2-BUTANONE	13.44	72.0	114208	102.98	UG/L	97
19)	1,1,1-TRICHLOROETHANE	14.63	97.0	612290	13.87	UG/L	98
20)	CARBON TETRACHLORIDE	15.00	117.0	511472	17.34	UG/L	97
21)	VINYL ACETATE	15.21	43.0	661567	18.13	UG/L	93
22)	BROMODICHLOROMETHANE	15.49	83.0	547310	12.32	UG/L	95
23)	1,2-DICHLOROPROPANE	16.86	63.0	676222	14.71	UG/L	96
24)	CIS-1,3-DICHLOROPROPENE	17.11	75.0	760795	16.14	UG/L	96
25)	TRICHLOROETHENE	17.63	130.0	547367	13.71	UG/L	96
26)	BENZENE-D6	18.00	84.0	1354776	8.81	UG/L	98
27)	BENZENE	18.15	78.0	1858809	11.10	UG/L	98
28)	DIBROMOCHLOROMETHANE	18.21	129.0	284277	14.01	UG/L	93
29)	TRANS-1,3-DICHLOROPROPENE	18.36	75.0	288722M	7.49	UG/L	
30)	1,1,2-TRICHLOROETHANE	18.33	97.0	230102	13.90	UG/L	96
31)	2-CHLOROETHYL VINYLETHER	19.44	63.0	122729	15.18	UG/L	96
32)	BROMOFORM	20.87	173.0	91283	10.25	UG/L	98
33)	*1,4-Dichlorobutane	23.51	55.0	370083	10.00	UG/L	95
34)	4-METHYL-2-PENTANONE	21.46	43.0	349371	20.17	UG/L	94
35)	2-HEXANONE	23.02	43.0	197871	18.78	UG/L	98
36)	TETRACHLOROETHENE	23.20	164.0	356295	11.36	UG/L	98
37)	1,1,2,2-TETRACHLOROETHANE	23.17	83.0	122979	9.41	UG/L	95
38)	TOLUENE-D8	24.33	98.0	1260346	8.45	UG/L	99
39)	TOLUENE	24.52	92.0	1037400	9.72	UG/L	96
40)	CHLOROBENZENE	25.62	112.0	1096997	12.11	UG/L	99
41)	ETHYLBENZENE	27.64	106.0	620134	10.36	UG/L	98
42)	STYRENE	31.81	104.0	1128733	9.89	UG/L	99
43)	META XYLENE	32.14	106.0	1732130	33.02	UG/L	95

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	O-&/OR P-XYLENE	33.19	106.0	2079924	41.33	UG/L	97

* Compound is ISTD

TOTAL ION CHROMATOGRAM



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Name: VOASTD10PPB
Misc: 031490 20 ML

Id File: IDCJ3C::D3
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900213 08:30

Operator ID: CHACKO
Quant Time: 900314 11:09
Injected at: 900314 10:29

QUANT REPORT

Operator ID: CHACKO Quant Rev: 6 Quant Time: 900314 14:20
Output File: ^CJ190::A4 Injected at: 900314 13:37
Data File: >CJ190::A4 Dilution Factor: 1.00000
Name: VOASTD15PPB
Misc: 031490 20 ML

ID File: IDCJ3C::D3
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900213 08:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.51	130.0	208832	10.00	UG/L	97
2)	CHLOROMETHANE	2.10	50.0	1356655	25.39	UG/L	100
3)	BROMOMETHANE	3.20	94.0	1069979	22.63	UG/L	94
4)	VINYL CHLORIDE	4.02	62.0	1340265	23.03	UG/L	97
5)	CHLOROETHANE	5.12	64.0	657504	23.23	UG/L	95
6)	METHYLENE CHLORIDE	7.29	84.0	663746	47.05	UG/L	89
7)	ACROLEIN	8.12	56.0	468823	365.64	UG/L	98
8)	ACETONE	8.15	43.0	808386	334.02	UG/L	98
9)	ACRYLONITRILE	8.79	53.0	1331466	320.48	UG/L	99
10)	CARBON DISULFIDE	8.85	76.0	2792213	21.36	UG/L	100
11)	1,1-DICHLOROETHENE	10.11	96.0	789498	20.59	UG/L	79
12)	1,1-DICHLOROETHANE	11.39	63.0	1684284	20.53	UG/L	94
13)	1,2-DICHLOROETHENE (TOTAL)	12.07	96.0	766488	16.31	UG/L	80
14)	CHLOROFORM	12.62	83.0	1269130	20.06	UG/L	98
15)	1,2-DICHLOROETHANE-D4	13.26	65.0	220630	11.44	UG/L	87
16)	1,2-DICHLOROETHANE	13.35	62.0	334600	15.97	UG/L	95
17)	*2-Bromo-1-chloropropane	19.54	77.0	783955	10.00	UG/L	99
18)	2-BUTANONE	13.41	72.0	127835	95.81	UG/L	99
19)	1,1,1-TRICHLOROETHANE	14.61	97.0	918000	17.29	UG/L	99
20)	CARBON TETRACHLORIDE	14.97	117.0	792977	22.35	UG/L	98
21)	VINYL ACETATE	15.19	43.0	609687	13.89	UG/L	97
22)	BROMODICHLOROMETHANE	15.50	83.0	765669	14.33	UG/L	95
23)	1,2-DICHLOROPROPANE	16.84	63.0	977313	17.67	UG/L	98
24)	CIS-1,3-DICHLOROPROPENE	17.09	75.0	1078446	19.01	UG/L	98
25)	TRICHLOROETHENE	17.64	130.0	959514	19.97	UG/L	99
26)	BENZENE-D6	17.97	84.0	1765797	9.54	UG/L	98
27)	BENZENE	18.13	78.0	2934736	14.56	UG/L	97
28)	DIBROMOCHLOROMETHANE	18.22	129.0	402953	16.51	UG/L	94
29)	TRANS-1,3-DICHLOROPROPENE	18.37	75.0	387555M	8.36	UG/L	
30)	1,1,2-TRICHLOROETHANE	18.34	97.0	324544	16.29	UG/L	98
31)	2-CHLOROETHYL VINYLETHER	19.44	63.0	161241	16.58	UG/L	99
32)	BROMOFORM	20.85	173.0	129193	12.06	UG/L	98
33)	*1,4-Dichlorobutane	23.48	55.0	369366	10.00	UG/L	97
34)	4-METHYL-2-PENTANONE	21.43	43.0	345962	20.01	UG/L	96

QUANT REPORT

Operator ID: CHACKO Quant Rev: 6 Quant Time: 900314 14:20
Output File: ^CJ190::A4 Injected at: 900314 13:37
Data File: >CJ190::A4 Dilution Factor: 1.00000
Name: VOASTD15PPB
Misc: 031490 20 ML

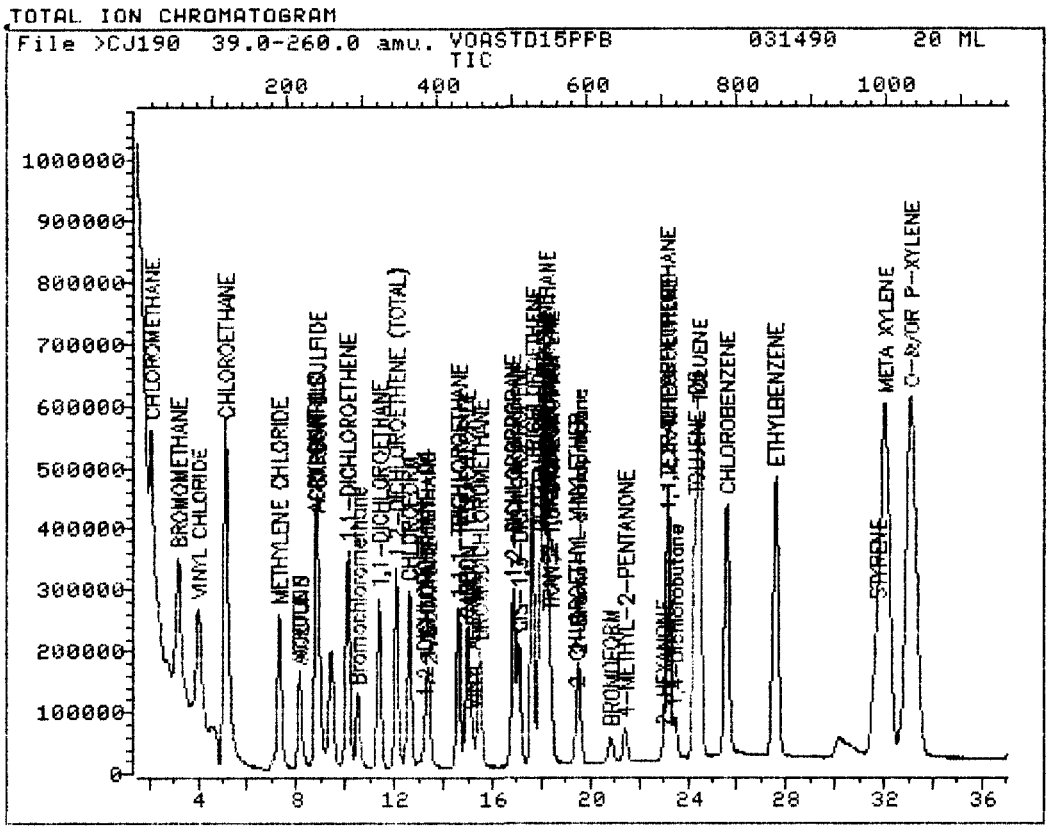
ID File: IDCJ3C::D3
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900213 08:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.51	130.0	208832	10.00	UG/L	97
2)	CHLOROMETHANE	2.10	50.0	1356655	25.39	UG/L	100
3)	BROMOMETHANE	3.20	94.0	1069979	22.63	UG/L	94
4)	VINYL CHLORIDE	4.02	62.0	1340265	23.03	UG/L	97
5)	CHLOROETHANE	5.12	64.0	657504	23.23	UG/L	95
6)	METHYLENE CHLORIDE	7.29	84.0	663746	47.05	UG/L	89
7)	ACROLEIN	8.12	56.0	468823	365.64	UG/L	98
8)	ACETONE	8.15	43.0	808386	334.02	UG/L	98
9)	ACRYLONITRILE	8.79	53.0	1331466	320.48	UG/L	99
10)	CARBON DISULFIDE	8.85	76.0	2792213	21.36	UG/L	100
11)	1,1-DICHLOROETHENE	10.11	96.0	789498	20.59	UG/L	79
12)	1,1-DICHLOROETHANE	11.39	63.0	1684284	20.53	UG/L	94
13)	1,2-DICHLOROETHENE (TOTAL)	12.07	96.0	766488	16.31	UG/L	80
14)	CHLOROFORM	12.62	83.0	1269130	20.06	UG/L	98
15)	1,2-DICHLOROETHANE-D4	13.26	65.0	220630	11.44	UG/L	87
16)	1,2-DICHLOROETHANE	13.35	62.0	334600	15.97	UG/L	95
17)	*2-Bromo-1-chloropropane	19.54	77.0	783955	10.00	UG/L	99
18)	2-BUTANONE	13.41	72.0	127835	95.81	UG/L	99
19)	1,1,1-TRICHLOROETHANE	14.61	97.0	918000	17.29	UG/L	99
20)	CARBON TETRACHLORIDE	14.97	117.0	792977	22.35	UG/L	98
21)	VINYL ACETATE	15.19	43.0	609687	13.39	UG/L	97
22)	BROMODICHLOROMETHANE	15.50	83.0	765669	14.33	UG/L	95
23)	1,2-DICHLOROPROPANE	16.84	63.0	977313	17.67	UG/L	98
24)	CIS-1,3-DICHLOROPROPENE	17.09	75.0	1078446	19.01	UG/L	98
25)	TRICHLOROETHENE	17.64	130.0	959514	19.97	UG/L	99
26)	BENZENE-D6	17.97	84.0	1765797	9.54	UG/L	98
27)	BENZENE	18.13	78.0	2934736	14.56	UG/L	97
28)	DIBROMOCHLOROMETHANE	18.22	129.0	402953	16.51	UG/L	94
29)	TRANS-1,3-DICHLOROPROPENE	18.37	75.0	387555M	8.36	UG/L	
30)	1,1,2-TRICHLOROETHANE	18.34	97.0	324544	16.29	UG/L	98
31)	2-CHLOROETHYL VINYLETHER	19.44	63.0	161241	16.58	UG/L	99
32)	BROMOFORM	20.85	173.0	129193	12.06	UG/L	98
33)	*1,4-Dichlorobutane	23.48	55.0	369366	10.00	UG/L	97
34)	4-METHYL-2-PENTANONE	21.43	43.0	345962	20.01	UG/L	96
35)	2-HEXANONE	22.99	43.0	173729	16.52	UG/L	97
36)	TETRACHLOROETHENE	23.18	164.0	613083	19.59	UG/L	96
37)	1,1,2,2-TETRACHLOROETHANE	23.15	83.0	153125	11.73	UG/L	96
38)	TOLUENE-D8	24.31	98.0	1631380	10.96	UG/L	97
39)	TOLUENE	24.46	92.0	1628987	15.29	UG/L	97
40)	CHLOROBENZENE	25.60	112.0	1629574	18.03	UG/L	99
41)	ETHYLBENZENE	27.59	106.0	948492	15.87	UG/L	97
42)	STYRENE	31.72	104.0	1359052	11.93	UG/L	97
43)	META XYLENE	32.06	106.0	2482886	47.43	UG/L	94

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	O-&/OR P-XYLENE	33.10	106.0	2923812	58.21	UG/L	97

* Compound is ISTD

TOTAL ION CHROMATOGRAM



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Misc: 031490 20 ML

Id File: IDCJ3C::D3
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900213 08:30

Operator ID: CHACKO
Quant Time: 900314 14:20
Injected at: 900314 13:37

QUANT REPORT

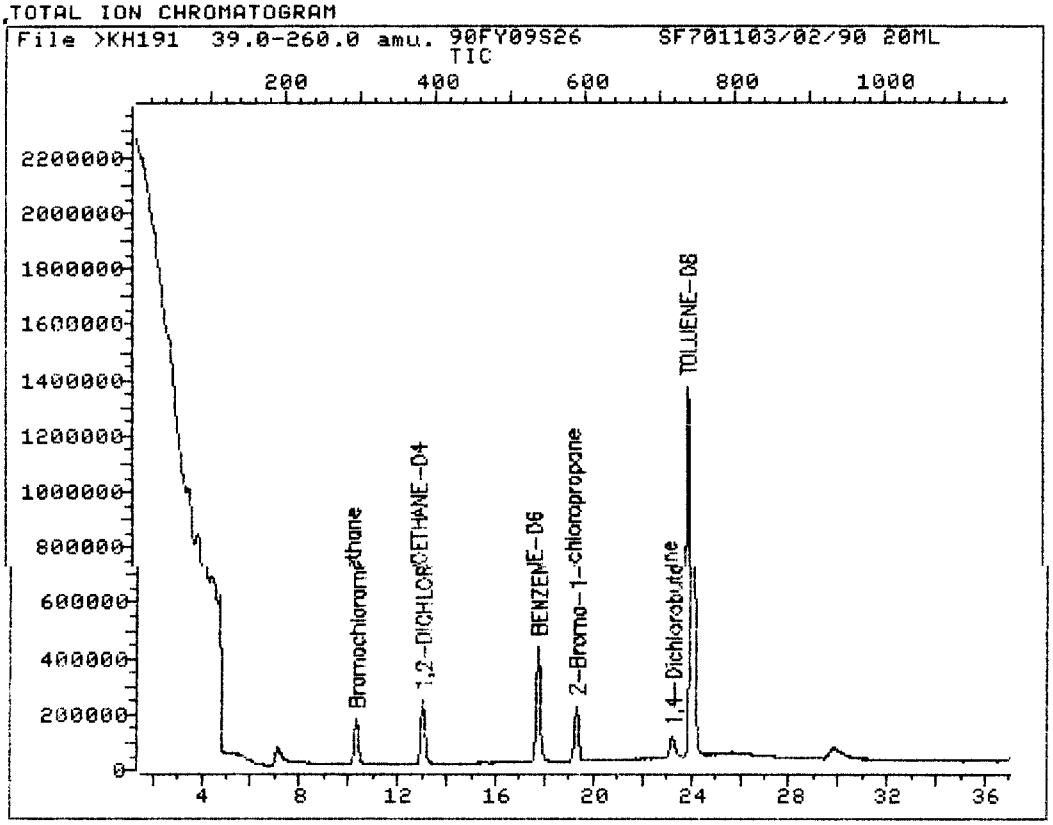
Operator ID: CHACKO Quant Rev: 6 Quant Time: 900302 20:06
Output File: ^KH191::E2 Injected at: 900302 19:26
Data File: >KH191::A8 Dilution Factor: 1.00000
Name: 90FY09S26 SF7011
Misc: 03/02/90 20ML

ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900302 13:28

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.32	130.0	291154	10.00	UG/L	96
15)	1,2-DICHLOROETHANE-D4	13.04	65.0	704660	9.94	UG/L	86
17)	*2-Bromo-1-chloropropane	19.31	77.0	1084193	10.00	UG/L	99
26)	BENZENE-D6	17.75	84.0	2382980	10.37	UG/L	98
33)	*1,4-Dichlorobutane	23.26	55.0	499660	10.00	UG/L	97
38)	TOLUENE-D8	24.06	98.0	5880651	11.24	UG/L	99

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >KH191::A8 Quant Output File: ^KH191::E2
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Misc: 03/02/90 20ML

Id File: IDKT30::A8
Title: 1D FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900302 13:28

Operator ID: CHACKO
Quant Time: 900302 20:06
Injected at: 900302 19:26

QUANT REPORT

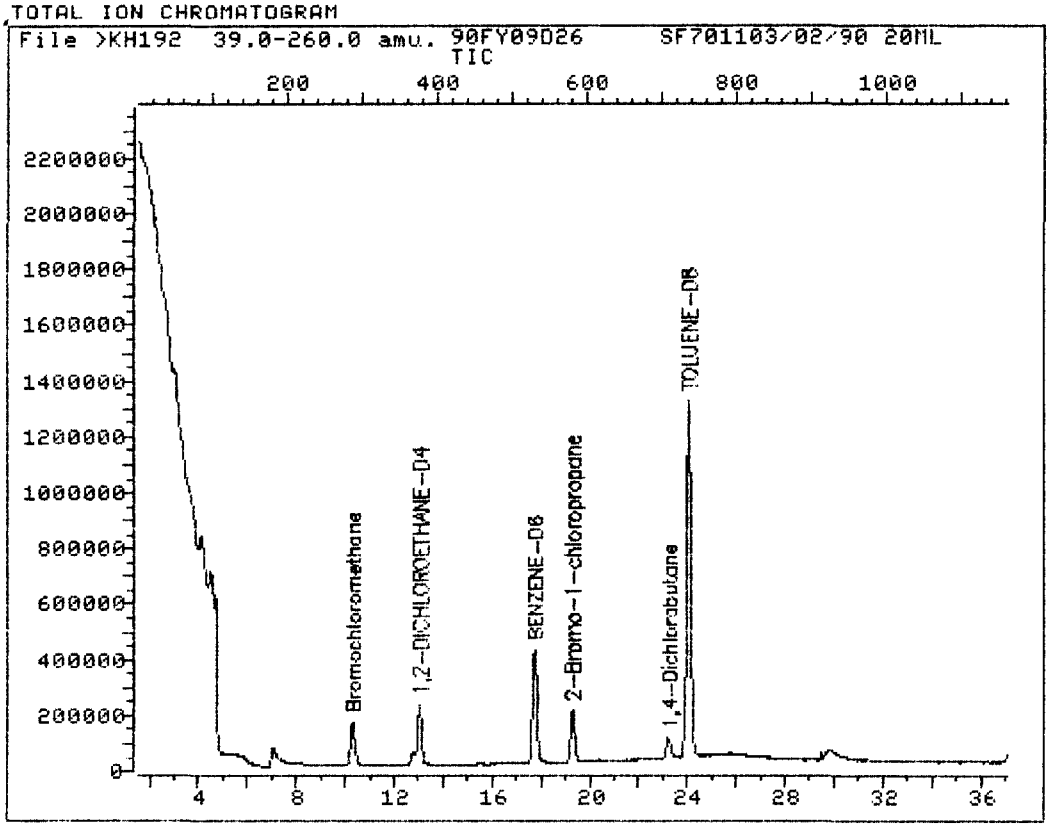
Operator ID: CHACKO Quant Rev: 6 Quant Time: 900302 20:54
Output File: ^KH192::E2 Injected at: 900302 20:13
Data File: >KH192::A8 Dilution Factor: 1.00000
Name: 90FY09D26 SF7011
Misc: 03/02/90 20ML

ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900302 13:28

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.32	130.0	269410	10.00	UG/L	95
15)	1,2-DICHLOROETHANE-D4	13.05	65.0	665000	10.13	UG/L	86
17)	*2-Bromo-1-chloropropane	19.29	77.0	1027219	10.00	UG/L	99
26)	BENZENE-D6	17.76	84.0	2323358	10.67	UG/L	97
33)	*1,4-Dichlorobutane	23.26	55.0	466682	10.00	UG/L	97
38)	TOLUENE-D8	24.06	98.0	5640318	11.54	UG/L	99

* Compound is ISTD

TOTAL ION CHROMATOGRAM



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Misc: 03/02/90 20ML

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900302 13:28

Operator ID: CHACKO
Quant Time: 900302 20:54
Injected at: 900302 20:13

Calibration Check Report

Title: VOLATILES CRL624NS 12\05\89
Calibrated: 900321 13:41

Check Standard Data File: >CJ194
Injection Time: 900314 15:33

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
CHLOROMETHANE	3.79989	4.37809	15.22	Average	(Conc=20.00)
BROMOMETHANE	3.02407	3.24070	7.15	Average	(Conc=20.00)
VINYL CHLORIDE	4.01802	4.29533	6.90	Average	(Conc=20.00)
CHLOROETHANE	1.99881	2.16751	8.44	Average	(Conc=20.00)
METHYLENE CHLORIDE	1.67137	2.49684	49.39	Average	(Conc=15.00)
ACROLEIN	.08996	.10664	18.53	Average	(Conc=375.00)
ACETONE	.14287	.15031	5.21	Average	(Conc=375.00)
ACRYLONITRILE	.22342	.24305	8.79	Average	(Conc=375.00)
CARBON DISULFIDE	12.3178	14.0615	14.16	Average	(Conc=12.50)
1,1-DICHLOROETHENE	2.73659	3.03478	10.90	Average	(Conc=15.00)
1,1-DICHLOROETHANE	6.17894	6.57368	6.39	Average	(Conc=15.00)
1,2-DICHLOROETHENE (TOTAL)	2.68940	2.92951	8.93	Average	(Conc=15.00)
CHLOROFORM	4.69601	4.97651	5.97	Average	(Conc=15.00)
1,2-DICHLOROETHANE-D4	1.21683	1.14723	5.72	Average	(Conc=10.00)
1,2-DICHLOROETHANE	1.32857	1.34433	1.19	Average	(Conc=15.00)
2-BUTANONE	.01610	.01734	7.76	Average	(Conc=125.00)
1,1,1-TRICHLOROETHANE	.86523	.94432	9.14	Average	(Conc=15.00)
CARBON TETRACHLORIDE	.73123	.80342	9.87	Average	(Conc=15.00)
VINYL ACETATE	.30778	.31270	1.60	Average	(Conc=37.50)
BROMODICHLOROMETHANE	.71937	.76400	6.20	Average	(Conc=15.00)
1,2-DICHLOROPROPANE	.89997	.96612	7.35	Average	(Conc=15.00)
CIS-1,3-DICHLOROPROPENE	.71408	.76531	7.17	Average	(Conc=21.00)
TRICHLOROETHENE	.80814	.89277	10.47	Average	(Conc=15.00)
BENZENE-D6	2.17362	2.28432	5.09	Average	(Conc=10.00)
BENZENE	2.64009	2.91837	10.54	Average	(Conc=15.00)
DIBROMOCHLOROMETHANE	.36987	.39540	6.90	Average	(Conc=15.00)
TRANS-1,3-DICHLOROPROPENE	.61879	.64769	4.67	Average	(Conc=9.00)
1,1,2-TRICHLOROETHANE	.30157	.31561	4.66	Average	(Conc=15.00)
2-CHLOROETHYL VINYLETHER	.15745	.15569	1.12	Average	(Conc=15.00)
BROMOFORM	.11777	.12524	6.35	Average	(Conc=15.00)
4-METHYL-2-PENTANONE	.44269	.50681	14.48	Average	(Conc=25.00)
2-HEXANONE	.23400	.24039	2.73	Average	(Conc=25.00)
TETRACHLOROETHENE	1.01553	1.22861	20.98	Average	(Conc=15.00)
1,1,2,2-TETRACHLOROETHANE	.29079	.35090	20.67	Average	(Conc=15.00)
TOLUENE-D8	3.89838	4.33110	11.10	Average	(Conc=10.00)
TOLUENE	2.81260	3.35386	19.24	Average	(Conc=15.00)
CHLOROBENZENE	2.86615	3.35006	16.88	Average	(Conc=15.00)
ETHYLBENZENE	1.66572	1.97146	18.36	Average	(Conc=15.00)
STYRENE	3.17500	3.79734	19.60	Average	(Conc=12.50)
META XYLENE	2.39975	3.00392	25.18	Average	(Conc=30.00)

RF - Response Factor from daily standard file at 10.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

Calibration Check Report

Title: VOLATILES CRL624NS 12\05\89
Calibrated: 900321 13:41

Check Standard Data File: >CJ194
Injection Time: 900314 15:33

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
O-&/OR P-XYLENE	2.29372	2.87131	25.18	Average	(Conc=37.60)

QUANT REPORT

Operator ID: CHACKO Quant Rev: 6 Quant Time: 900315 10:47
Output File: ^CJ194::E1 Injected at: 900314 15:33
Data File: >CJ194::A3 Dilution Factor: 1.00000
Name: STD15PPB PEWP7020
Misc: 031490 20 ML

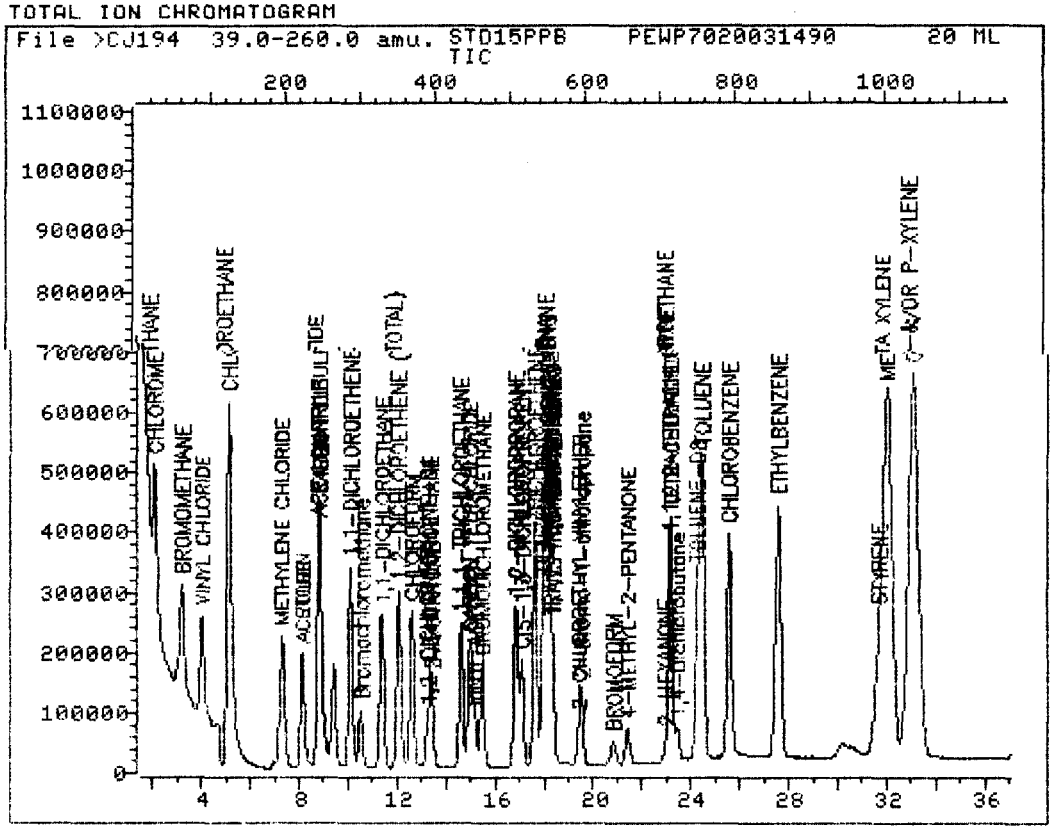
ID File: IDCJ3D::D3
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900315 10:30

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.53	130.0	154041	10.00	UG/L	97
2)	CHLOROMETHANE	2.09	50.0	1348811	23.04	UG/L	100
3)	BROMOMETHANE	3.19	94.0	998279	21.43	UG/L	95
4)	VINYL CHLORIDE	4.04	62.0	1323315	21.38	UG/L	97
5)	CHLOROETHANE	5.11	64.0	667771	21.69	UG/L	96
6)	METHYLENE CHLORIDE	7.29	84.0	576923	22.41	UG/L	88
7)	ACROLEIN	8.14	56.0	615994	444.50	UG/L	98
8)	ACETONE	8.14	43.0	868274	394.53	UG/L	98
9)	ACRYLONITRILE	8.78	53.0	1403996	407.95	UG/L	96
10)	CARBON DISULFIDE	8.85	76.0	2707568	14.27	UG/L	100
11)	1,1-DICHLOROETHENE	10.10	96.0	701221	16.63	UG/L	78
12)	1,1-DICHLOROETHANE	11.39	63.0	1518924	15.96	UG/L	95
13)	1,2-DICHLOROETHENE (TOTAL)	12.06	96.0	676897	16.34	UG/L	78
14)	CHLOROFORM	12.61	83.0	1149879	15.90	UG/L	99
15)	1,2-DICHLOROETHANE-D4	13.25	65.0	176720	9.43	UG/L	89
16)	1,2-DICHLOROETHANE	13.34	62.0	310624	15.18	UG/L	95
17)	*2-Bromo-1-chloropropane	19.53	77.0	603058	10.00	UG/L	99
18)	2-BUTANONE	13.41	72.0	130745	134.70	UG/L	99
19)	1,1,1-TRICHLOROETHANE	14.60	97.0	854221	16.37	UG/L	97
20)	CARBON TETRACHLORIDE	14.97	117.0	726765	16.48	UG/L	98
21)	VINYL ACETATE	15.18	43.0	707161	38.10	UG/L	96
22)	BROMODICHLOROMETHANE	15.49	83.0	691107	15.93	UG/L	96
23)	1,2-DICHLOROPROPANE	16.83	63.0	873944	16.10	UG/L	97
24)	CIS-1,3-DICHLOROPROPENE	17.08	75.0	969200	22.51	UG/L	97
25)	TRICHLOROETHENE	17.60	130.0	807589	16.57	UG/L	97
26)	BENZENE-D6	17.96	84.0	1377576	10.51	UG/L	98
27)	BENZENE	18.12	78.0	2639919	16.58	UG/L	99
28)	DIBROMOCHLOROMETHANE	18.21	129.0	357674	16.04	UG/L	96
29)	TRANS-1,3-DICHLOROPROPENE	18.33	75.0	351536M	9.42	UG/L	
30)	1,1,2-TRICHLOROETHANE	18.33	97.0	285501	15.70	UG/L	99
31)	2-CHLOROETHYL VINYLETHER	19.40	63.0	140833	14.83	UG/L	98
32)	BROMOFORM	20.84	173.0	113289	15.95	UG/L	97
33)	*1,4-Dichlorobutane	23.44	55.0	292820	10.00	UG/L	97
34)	4-METHYL-2-PENTANONE	21.42	43.0	371008	28.62	UG/L	96
35)	2-HEXANONE	22.98	43.0	175981	25.68	UG/L	97
36)	TETRACHLOROETHENE	23.17	164.0	539642	18.15	UG/L	96
37)	1,1,2,2-TETRACHLOROETHANE	23.14	83.0	154126	18.10	UG/L	91
38)	TOLUENE-D8	24.27	98.0	1268232	11.11	UG/L	97
39)	TOLUENE	24.45	92.0	1473117	17.89	UG/L	99
40)	CHLOROBENZENE	25.56	112.0	1471449	17.53	UG/L	99
41)	ETHYLBENZENE	27.58	106.0	865925	17.75	UG/L	97
42)	STYRENE	31.68	104.0	1389920	14.95	UG/L	98
43)	META XYLENE	31.99	106.0	2638824	37.55	UG/L	95

	Compound	R.T.	Q ion	Area	Conc	Units	q
44)	O-&/OR P-XYLENE	33.06	106.0	3161318	47.07	UG/L	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM

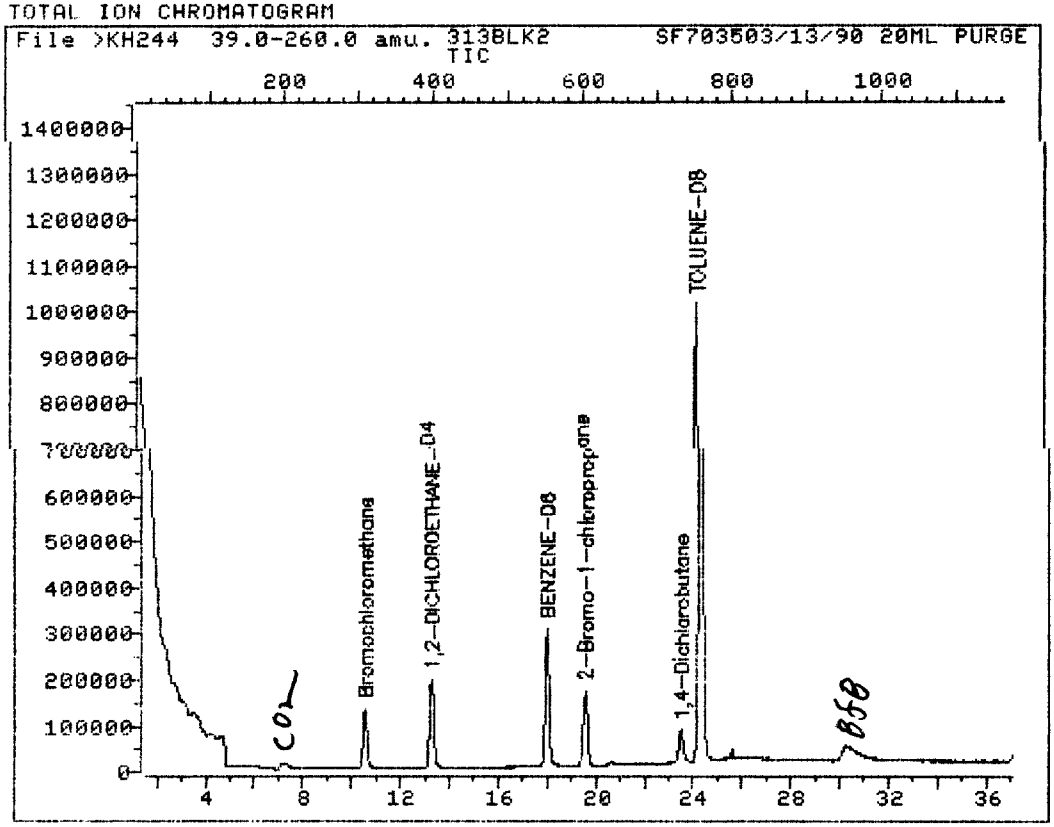


Data File: >CJ194::A3 Quant Output File: ^CJ194::E1
Name: STD15PPB PEWP7020
Misc: 031490 20 ML

Id File: IDCJ3D::D3
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900315 10:30

Operator ID: CHACKO
Quant Time: 900315 10:47
Injected at: 900314 15:33

TOTAL ION CHROMATOGRAM



Data File: >KH244::A8 Quant Output File: ^KH244::S1
Name: 313BLK2 SF7035
Misc: 03/13/90 20ML PURGE

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

Operator ID: CHACKO
Quant Time: 900313 15:51
Injected at: 900313 15:10

QUANT REPORT

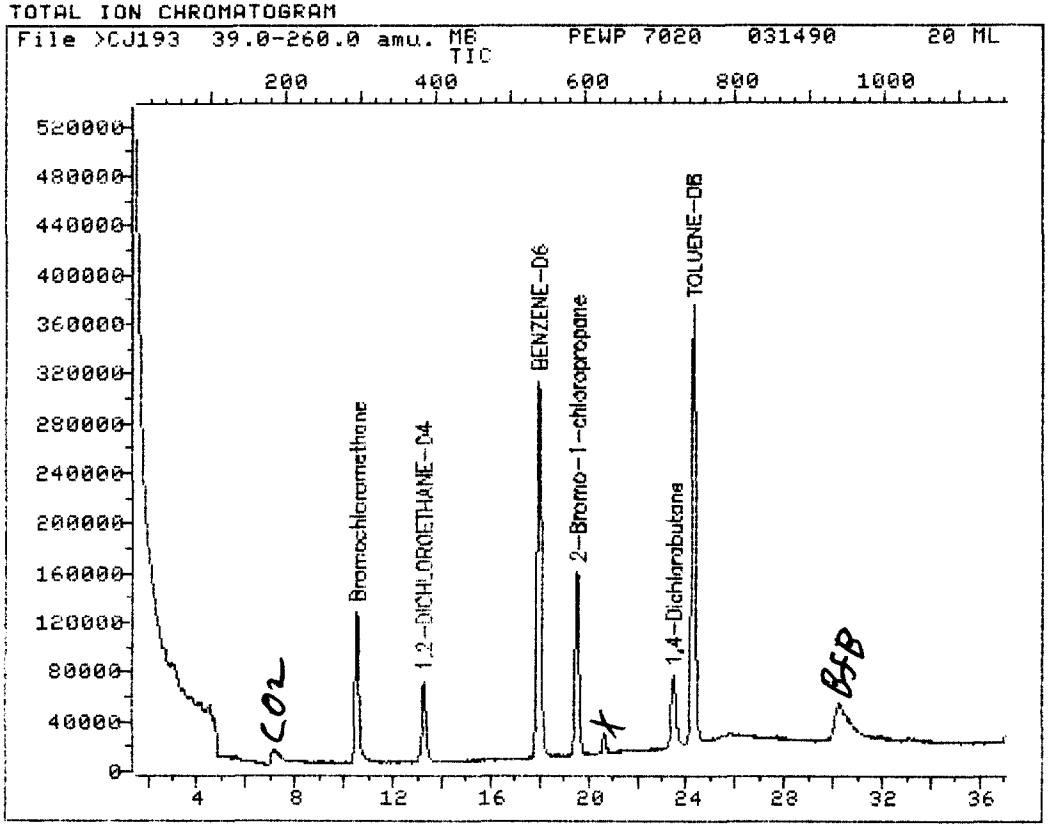
Operator ID: CHACKO Quant Rev: 6 Quant Time: 900313 15:51
Output File: ^KH244::S1 Injected at: 900313 15:10
Data File: >KH244::A8 Dilution Factor: 1.00000
Name: 313BLK2 SF7035
Misc: 03/13/90 20ML PURGE

ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.56	130.0	212368	10.00	UG/L	96
15)	1,2-DICHLOROETHANE-D4	13.29	65.0	617423	10.17	UG/L	85
17)	*2-Bromo-1-chloropropane	19.56	77.0	867684	10.00	UG/L	99
26)	BENZENE-D6	18.00	84.0	1700186	9.80	UG/L	97
33)	*1,4-Dichlorobutane	23.50	55.0	439716	10.00	UG/L	95
38)	TOLUENE-D8	24.33	98.0	4380833	9.24	UG/L	99

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >CJ193::A3 Quant Output File: ^CJ193::E1
Name: MB PEWP 7020
Misc: 031490 20 ML

Id File: IDCJ3D::D3
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900315 11:43

Operator ID: CHACKO
Quant Time: 900315 12:31
Injected at: 900314 14:46

QUANT REPORT

Operator ID: CHACKO
Output File: ^CJ193::E1
Data File: >CJ193::A3
Name: MB PEWP 7020
Misc: 031490 20 ML

Quant Rev: 6
Quant Time: 900315 12:31
Injected at: 900314 14:46
Dilution Factor: 1.00000

ID File: IDCJ3D::D3
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900315 11:43

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.54	130.0	214938	10.00	UG/L	97
15)	1,2-DICHLOROETHANE-D4	13.26	65.0	207129	8.40	UG/L	85
17)	*2-Bromo-1-chloropropane	19.53	77.0	815298	10.00	UG/L	99
26)	BENZENE-D6	17.97	84.0	1737840	9.33	UG/L	98
33)	*1,4-Dichlorobutane	23.48	55.0	378089	10.00	UG/L	97
38)	TOLUENE-D8	24.28	98.0	1612124	9.84	UG/L	98

* Compound is ISTD

MS data file header from : >CJ193

Sample: MB PEWP 7020 Operator: CHACKO MS 3/14/90 14:46
Misc : 031490 20 ML
Sys. #: 3 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: VOA#3 Tuning file: MTBFB3 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

>CJ193 MB PEWP 7020 031490 20 ML
39.01 260.0 CLP ADC TIC
Upslope: .20 Area Reject: 76662. Max Peaks: 3 Bunching: 1
Dnslope: 0.00 Results File ICJ193 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	7.12 COL	179	184	196	12268	247304	247304	27.59	18.886
2	20.63	621	626	635	16226	426039	165878	18.51	12.668
3	30.25 BB	930	940	968	25343	2551278	896273	100.00	68.446

#2 < 10% of 2nd IS area KOH 3/22/90

Sum of corrected areas: 1309455.

Summary of Unknowns PBM Library Search and Quantitation

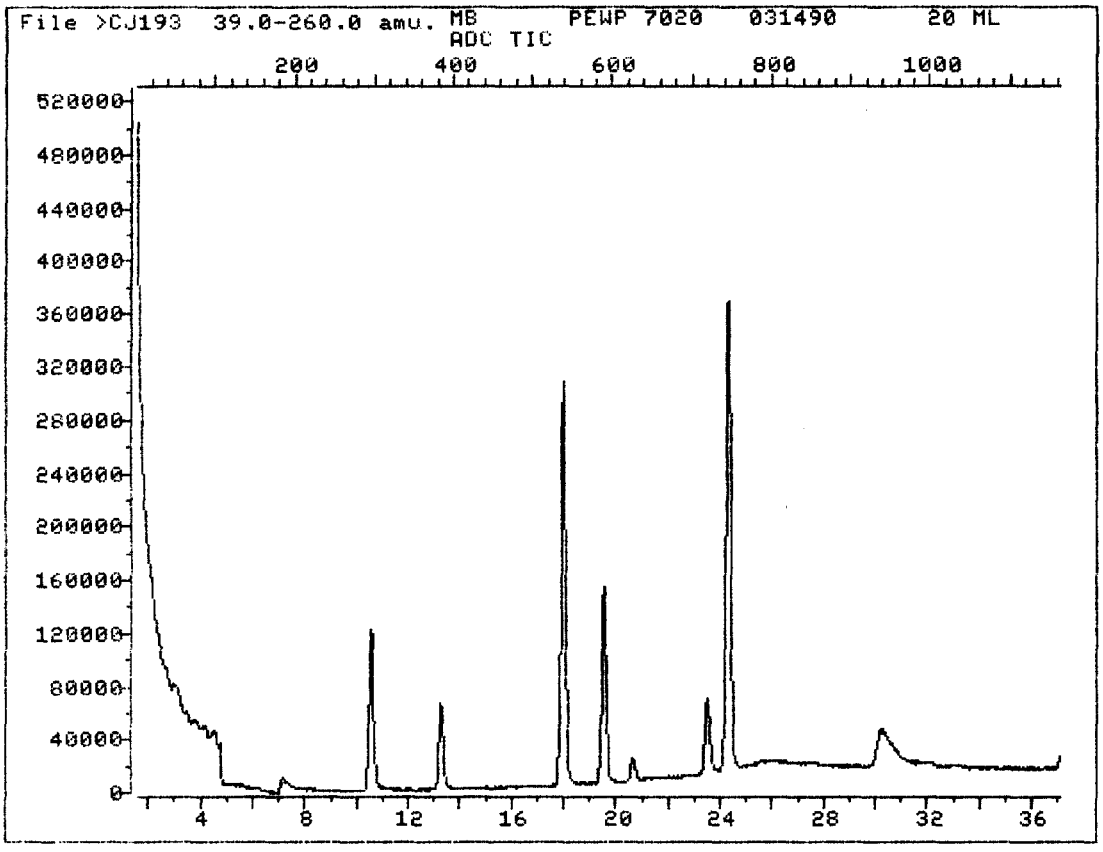
Standard	Concentration	Area	Retention Time	Unknown Window
1	10.0	1429849.	10.54	1.52 - 15.04
2	10.0	1712881.	19.53	15.04 - 21.51
3	10.0	766624.	23.48	21.51 - 37.05

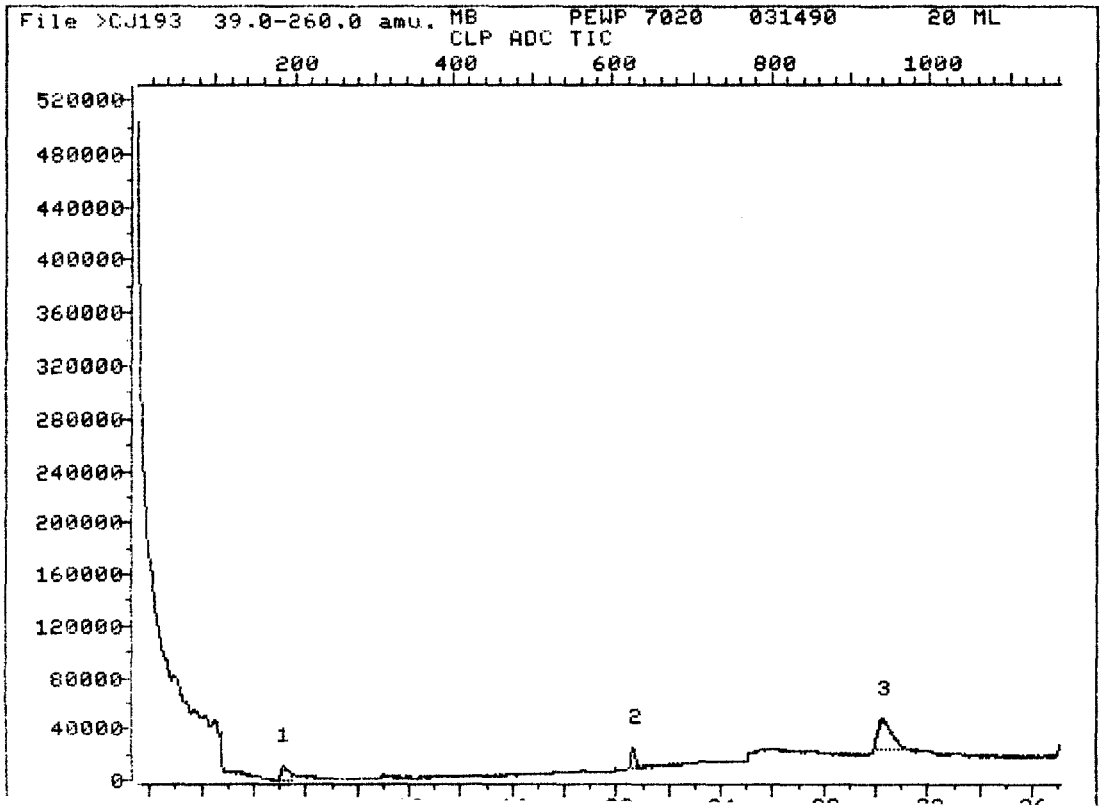
Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 20.00 Amount Used (AU) = 20.00

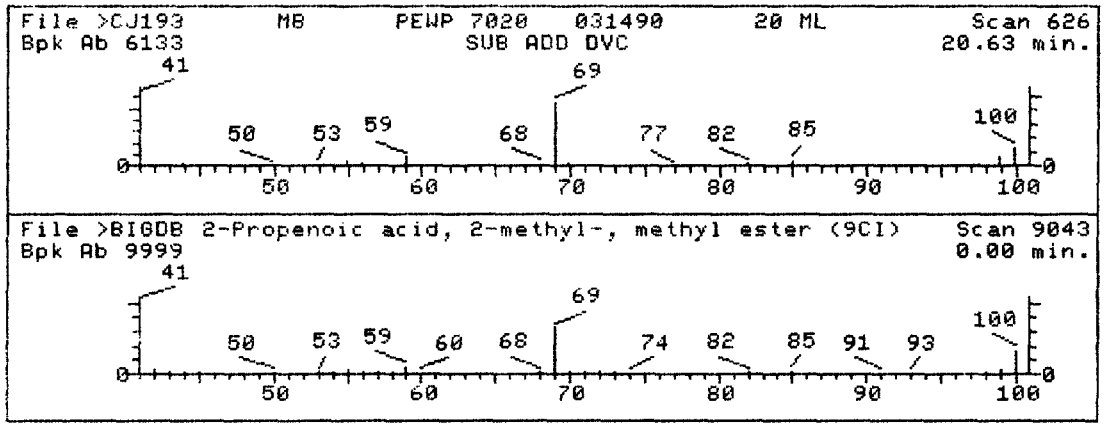
Correction Factor = 1.00 = (AM / AU) / (DF * FS)

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

9:52 AM THU., 22 MAR., 1990


File >CJ193 39.0-260.0 amu. MB PEWP 7020 031490 20 ML
ADC TIC
200 400 600 800 1000
520000 480000 440000 400000 360000 320000 280000 240000 200000 160000 120000 80000 40000 0
4 8 12 16 20 24 28 32 36


File >CJ193 39.0-260.0 amu. MB PEWP 7020 031490 20 ML
CLP ADC TIC
200 400 600 800 1000
520000 480000 440000 400000 360000 320000 280000 240000 200000 160000 120000 80000 40000 0
1
2
3



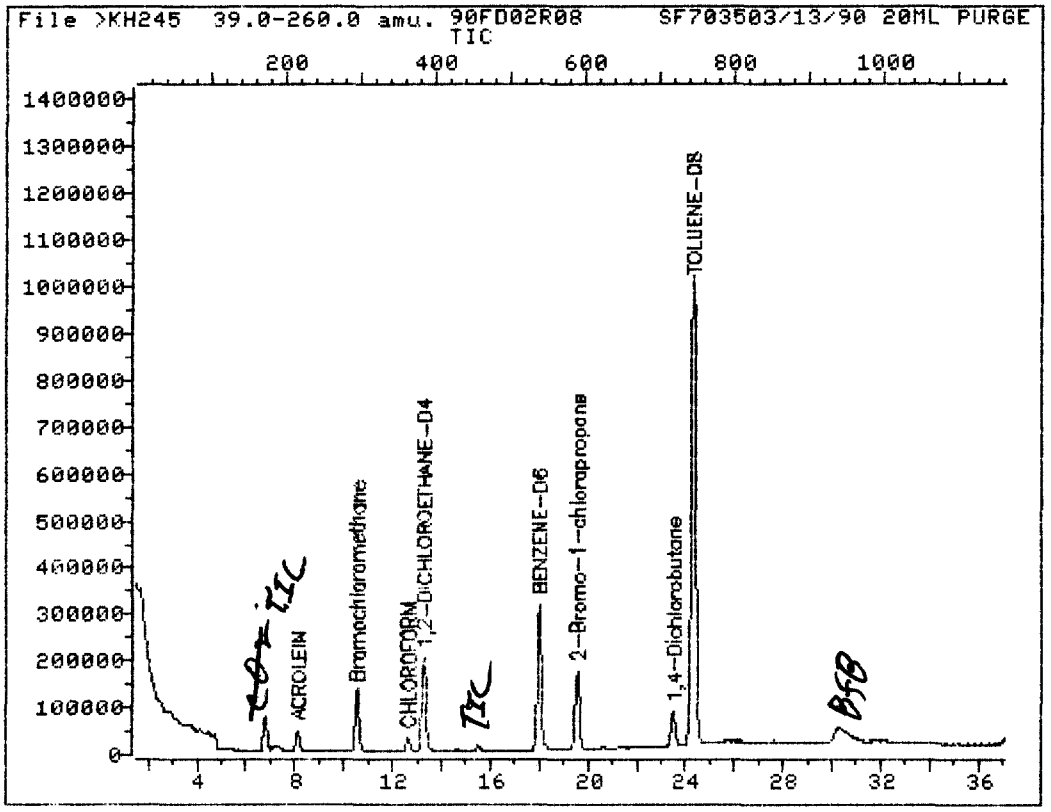
. Unknown #,2
Area = 165878.0 Tentative Concentration is 1.000

1. 2-Propenoic acid, 2-methyl-, methyl ester (9CI) 100 C5H8O2

Sample file: >CJ193 Spectrum #: 626
Search speed: 1 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	26*	80626	9043	"BIGDB	29	60	2	0	78	42	8	14

TOTAL ION CHROMATOGRAM



Data File: >KH245::A8 Quant Output File: ^KH245::S1
Name: 90FD02R08 SF7035
Misc: 03/13/90 20ML PURGE

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

Operator ID: CHACKO
Quant Time: 900313 16:38
Injected at: 900313 15:57

QUANT REPORT

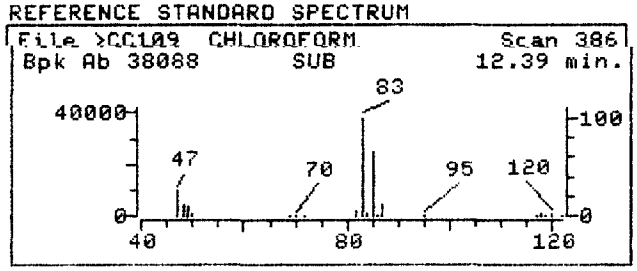
Operator ID: CHACKO Quant Rev: 6 Quant Time: 900313 16:38
Output File: ^KH245::S1 Injected at: 900313 15:57
Data File: >KH245::A8 Dilution Factor: 1.00000
Name: 90FD02R08 SF7035
Misc: 03/13/90 20ML PURGE

ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

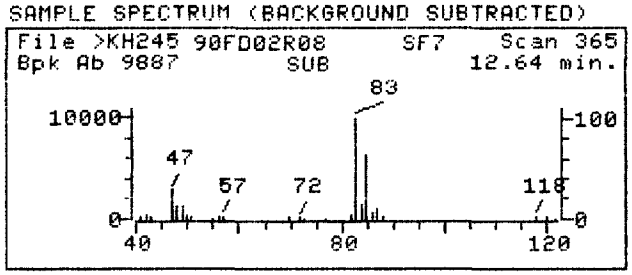
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.53	130.0	214707	10.00	UG/L	95
7)	ACROLEIN	8.12	56.0	130428	111.11	UG/L	68
14)	CHLOROFORM	12.64	83.0	106452	1.17	UG/L	98
15)	1,2-DICHLOROETHANE-D4	13.29	65.0	643751	10.49	UG/L	85
17)	*2-Bromo-1-chloropropane	19.56	77.0	882806	10.00	UG/L	99
26)	BENZENE-D6	18.00	84.0	1722668	9.76	UG/L	98
33)	*1,4-Dichlorobutane	23.50	55.0	455462	10.00	UG/L	98
38)	TOLUENE-D8	24.30	98.0	4411277	8.98	UG/L	98

* Compound is ISTD

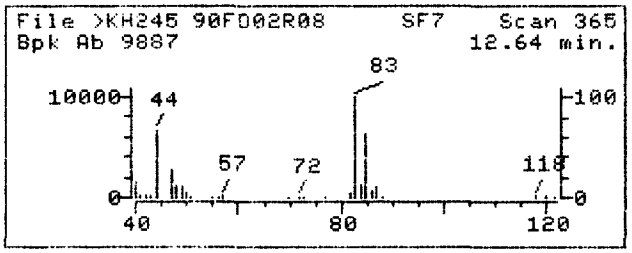
REFERENCE STANDARD SPECTRUM

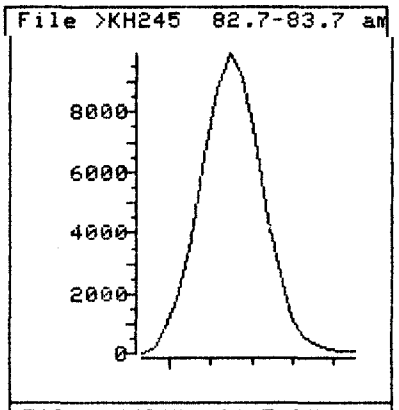


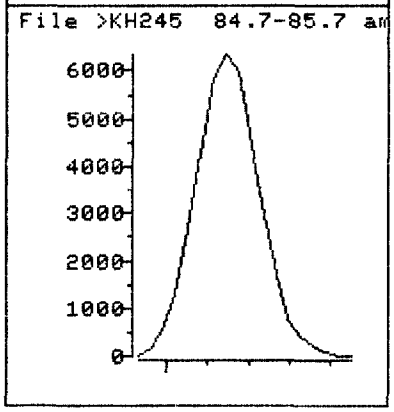
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >KH245::A8
Name: 90FD02R08 SF7035
Misc: 03/13/90 20ML PURGE
Quant Time: 900313 16:38
Injected at: 900313 15:57

Quant Output File: ^KH245::S1

Quant ID File: IDKT30::A8
Last Calibration: 900313 15:05

Compound No: 14
Compound Name: CHLOROFORM
Scan Number: 365
Retention Time: 12.64 min.
Quant Ion: 83.0
Area: 106452
Concentration: 1.17 UG/L
q-value: 98

MS data file header from : >KH245

Sample: 90FD02R08 SF7035 Operator: CHACKO MS 3/13/90 15:57
Misc : 03/13/90 20ML PURGE
Sys. #: 3 MS model: 87 SW/HW rev.: IA ALS # : 0
Method file: VOA#3 Tuning file: MTBFB3 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

>KH245 90FD02R08 SF703503/13/90 20ML PURGE
39.0| 260.0 CLP ADC TIC
Upslope: .20 Area Reject: 95496. Max Peaks: 4 Bunching: 1
Dnslope: 0.00 Results File IKH245 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	4.75 CO2	105	107	111	33881	192378	140246	16.55	8.874
2	6.80	165	174	181	72323	868206	847653	100.00	53.636
3	15.52	452	459	467	11865	179729	131003	15.45	8.289
4	30.30 BFB	932	942	945	28101	1033376	461475	54.44	29.200

Sum of corrected areas: 1580377.

Summary of Unknowns PBM Library Search and Quantitation

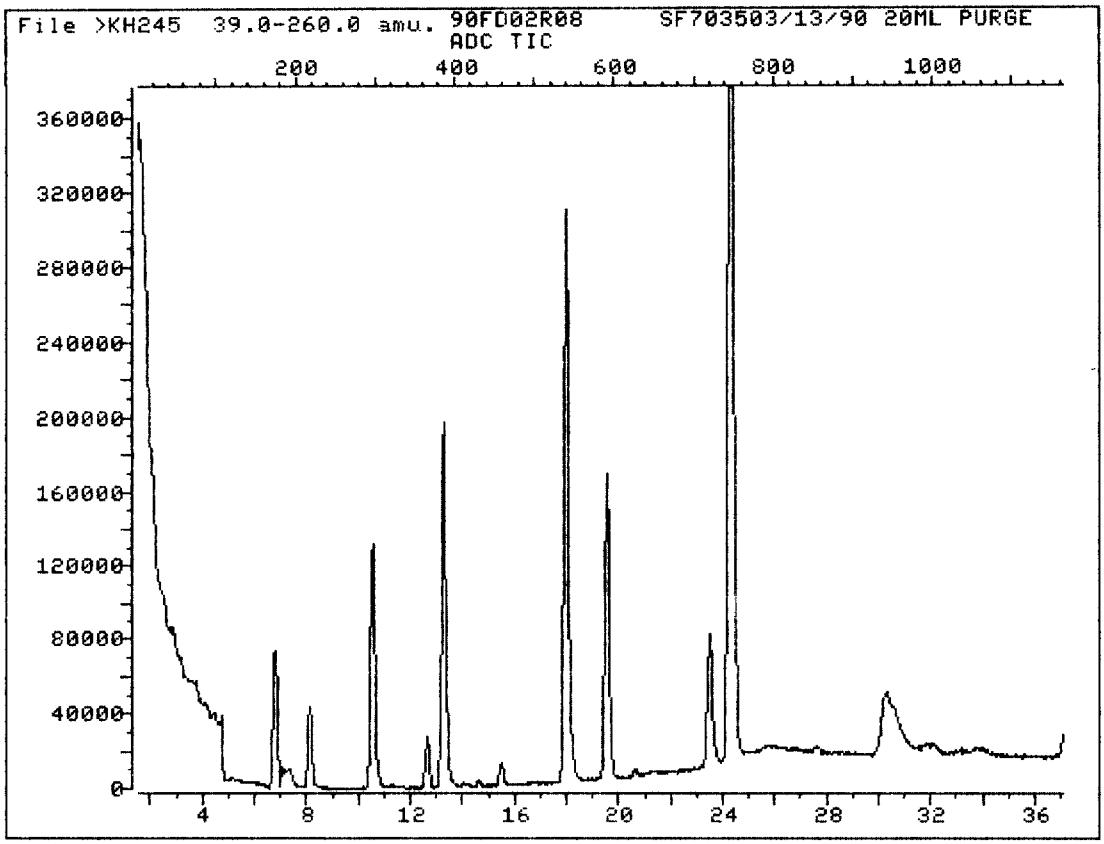
Standard	Concentration	Area	Retention Time	Unknown Window
1	10.0	1536276.	10.53	1.51 - 15.05
2	10.0	1927068.	19.56	15.05 - 21.53
3	10.0	954961.	23.50	21.53 - 37.07

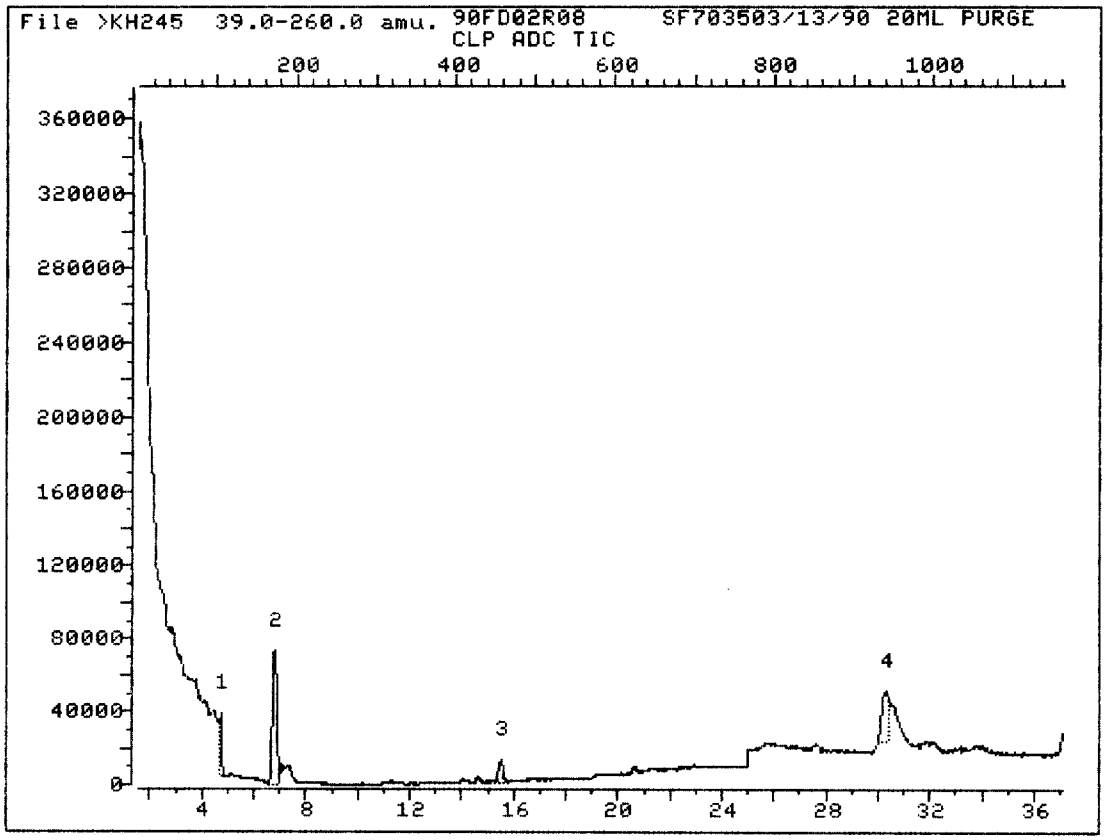
Dilution Factor (DF) = 1.00 Fractional Solids (FS) = 1.00
Amount Method (AM) = 20.00 Amount Used (AU) = 20.00

Correction Factor = 1.00 = (AM / AU) / (DF * FS)

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

1:55 PM MON., 19 MAR., 1990

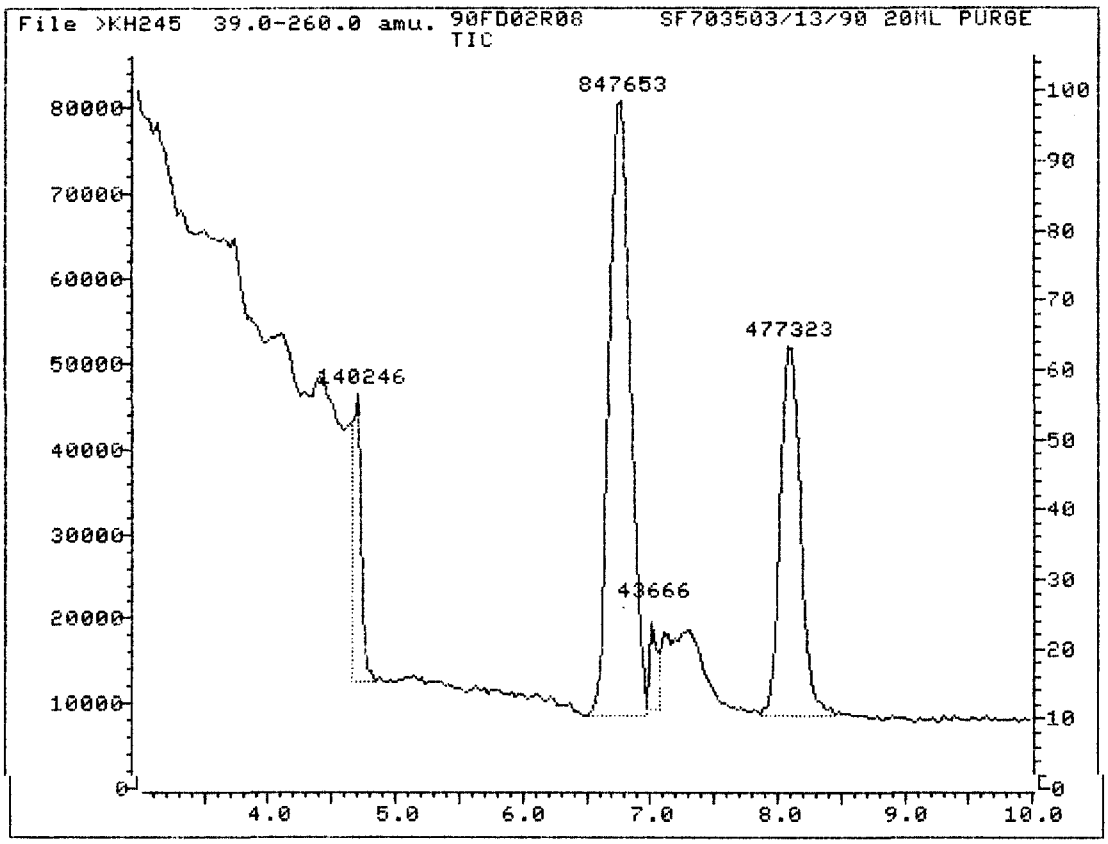

File >KH245 39.0-260.0 amu. 90FD02R08 SF703503/13/90 20ML PURGE
ADC TIC
200 400 600 800 1000
360000 320000 280000 240000 200000 160000 120000 80000 40000 0
4 8 12 16 20 24 28 32 36

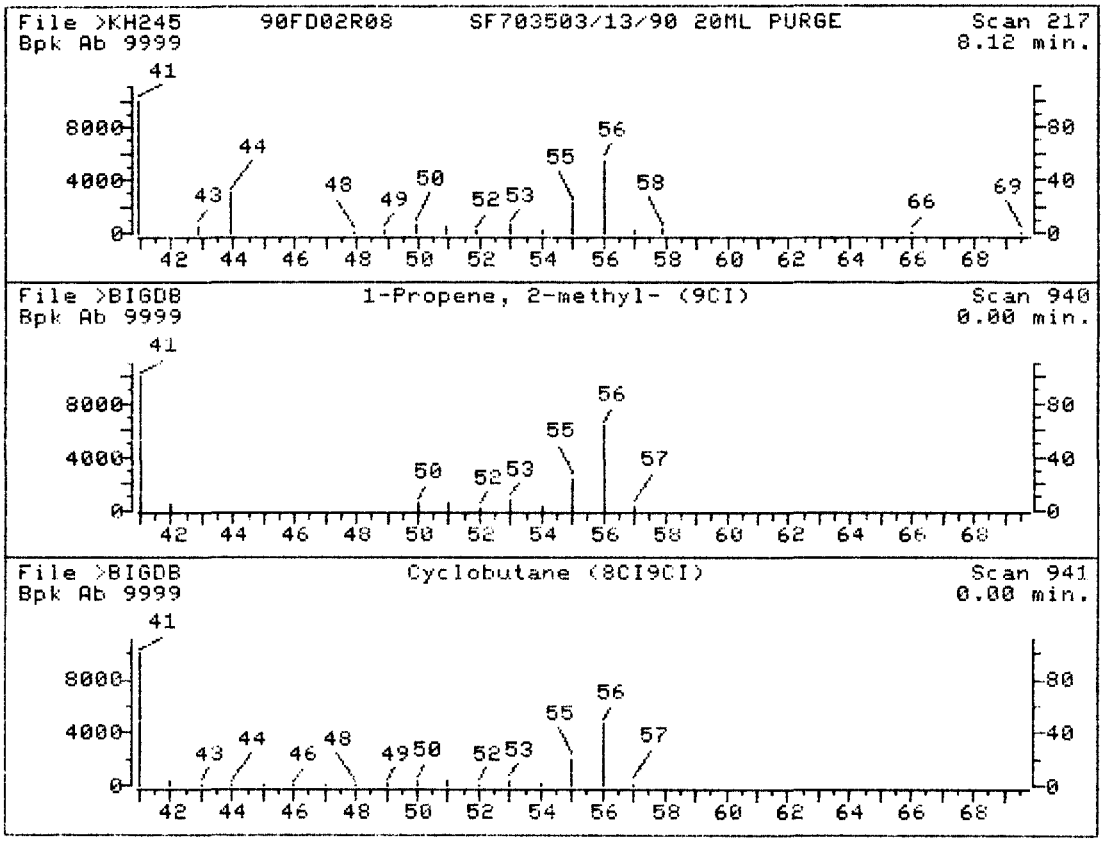

File >KH245 39.0-260.0 amu. 90FD02R08 SF703503/13/90 20ML PURGE
CLP ADC TIC
200 400 600 800 1000
360000 320000 280000 240000 200000 160000 120000 80000 40000 0
1
2
3
4
4 8 12 16 20 24 28 32 36

>KH245 90FD02R08 SF703503/13/90 20ML PURGE
39.0| 260.0 TIC
Upslope: .20 Area Reject: 5.00 % Max Peaks: 4 Bunching: 1
Dnslope: 0.00 Results File VDIR80 Sorted by Time/Area INT

Peak #	R.T. min.	first scan	max scan	last scan	peak height	raw area	corr. area	corr. % max.	% of total
1	4.75	105	107	111	33881	278741	140246	16.55	9.295
2	6.80	165	174	181	72323	1098522	847653	100.00	56.177
3	7.05	181	182	184	10163	95349	43666	5.15	2.894
4	8.12	210	217	229	43359	777982	477323	56.31	31.634

Sum of corrected areas: 1508888.




File >KH245 90FD02R08 SF703503/13/90 20ML PURGE Scan 217
Bpk Ab 9999 8.12 min.
File >BIGDB 1-Propene, 2-methyl- (9CI) Scan 940
Bpk Ab 9999 0.00 min.
File >BIGDB Cyclobutane (8CI9CI) Scan 941
Bpk Ab 9999 0.00 min.

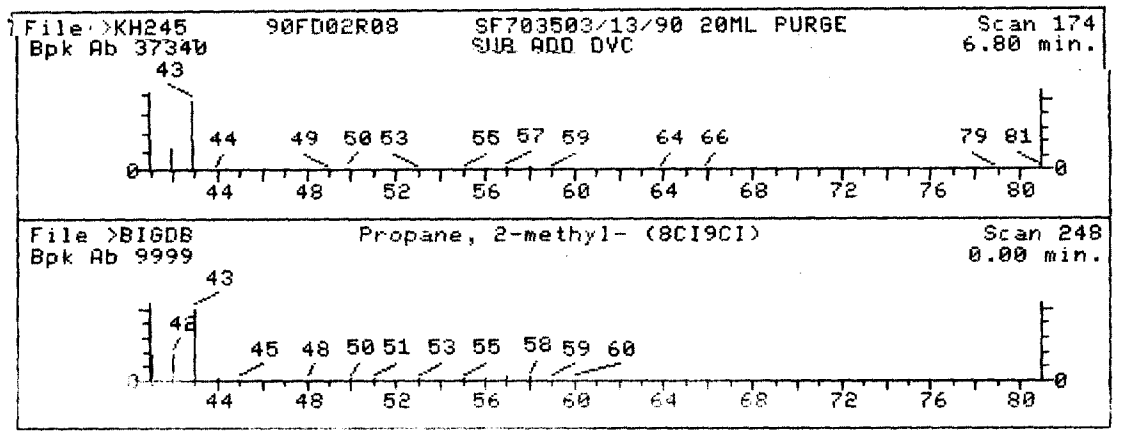
1.	1-Propene, 2-methyl- (9CI)	56 C4H8
2.	Cyclobutane (8CI9CI)	56 C4H8
3.	2-Butene, (Z)- (8CI9CI)	56 C4H8
4.	2-Butene, (E)- (8CI9CI)	56 C4H8
5.	1-Butene (8CI9CI)	56 C4H8
6.	2-Butene (8CI9CI)	56 C4H8

Sample file: >KH245 Spectrum #: 217
Search speed: 1 Tilting option: N No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	33*	115117	940	"BIGDB	36	37	1	0	70	37	10	19
2.	31*	287230	941	"BIGDB	34	45	2	0	100	40	10	17
3.	28*	590181	942	"BIGDB	29	50	2	0	85	37	10	14
4.	28*	624646	943	"BIGDB	29	50	2	0	81	37	10	14
5.	28*	106989	938	"BIGDB	26	53	2	0	100	40	10	14
6.	27*	107017	939	"BIGDB	23	58	2	0	97	40	10	13

:AL,,3 Move cursor; then press carriage return :

$$\frac{477323}{1536276} \times 10 = 3.1$$



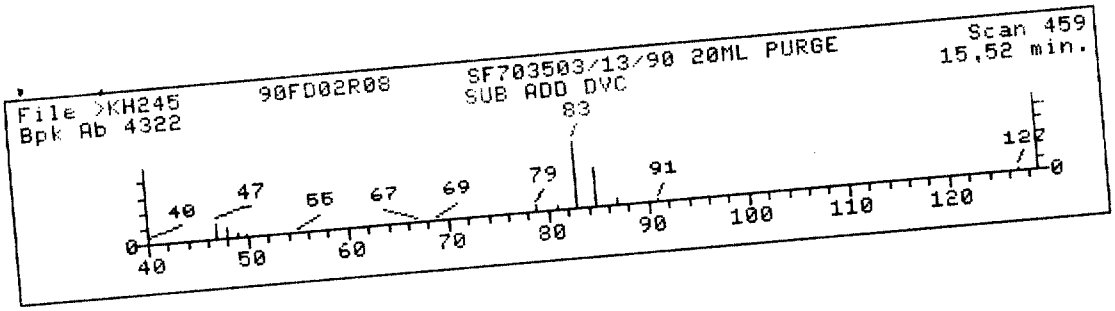
unknown alkane

. Unknown #,2
Area = 847653.0 Tentative Concentration is 6.00

1. Propane, 2-methyl- (8CI9CI) 58 C4H10

Sample file: >KH245 Spectrum #: 174
Search speed: 1 Tilting option: S No. of ion ranges searched: 45

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	52*	75285	248	"BIGDB	25	44	1	0	87	18	20	14

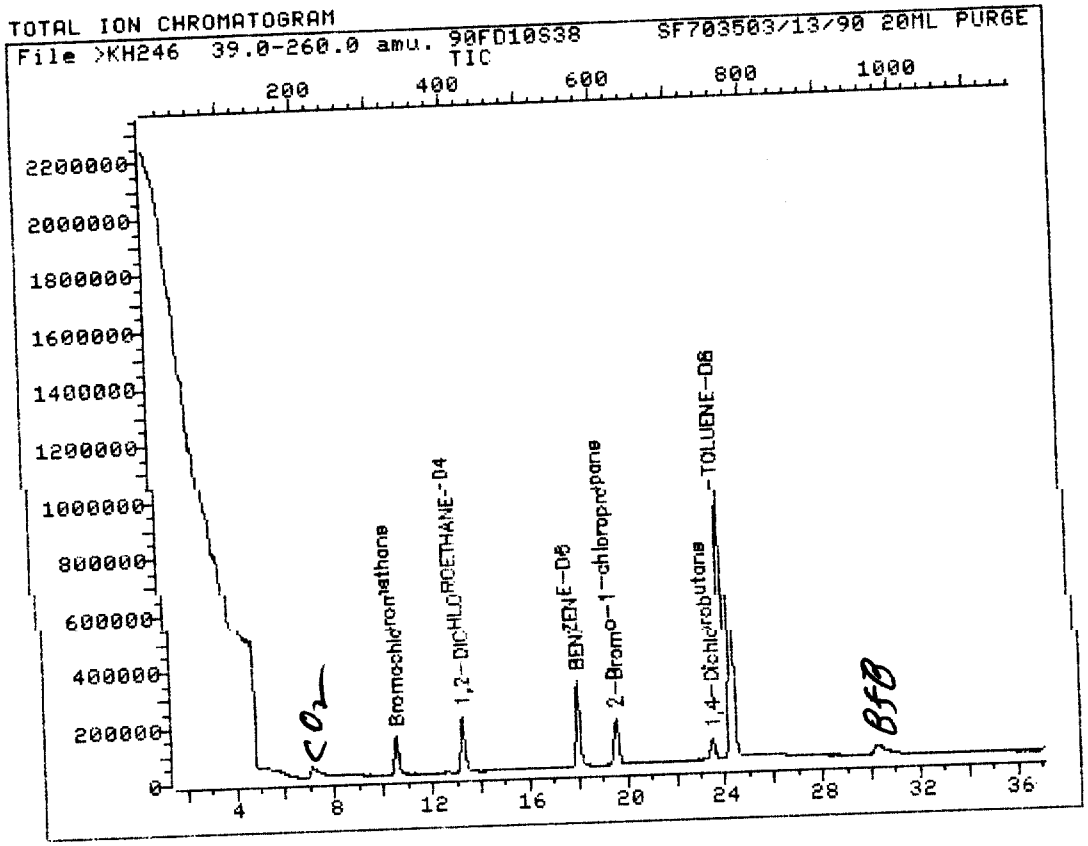


Unknown #,3

Area = 131003.0 Tentative Concentration is .700

Sample file: >KH245 Spectrum #: 459

No data base entries were retrieved.



Data File: >KH246::A8
Name: 90FD10S38 SF7035
Misc: 03/13/90 20ML PURGE

Quant Output File: ^KH246::S1

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

Operator ID: CHACKO
Quant Time: 900313 17:25
Injected at: 900313 16:45

QUANT REPORT

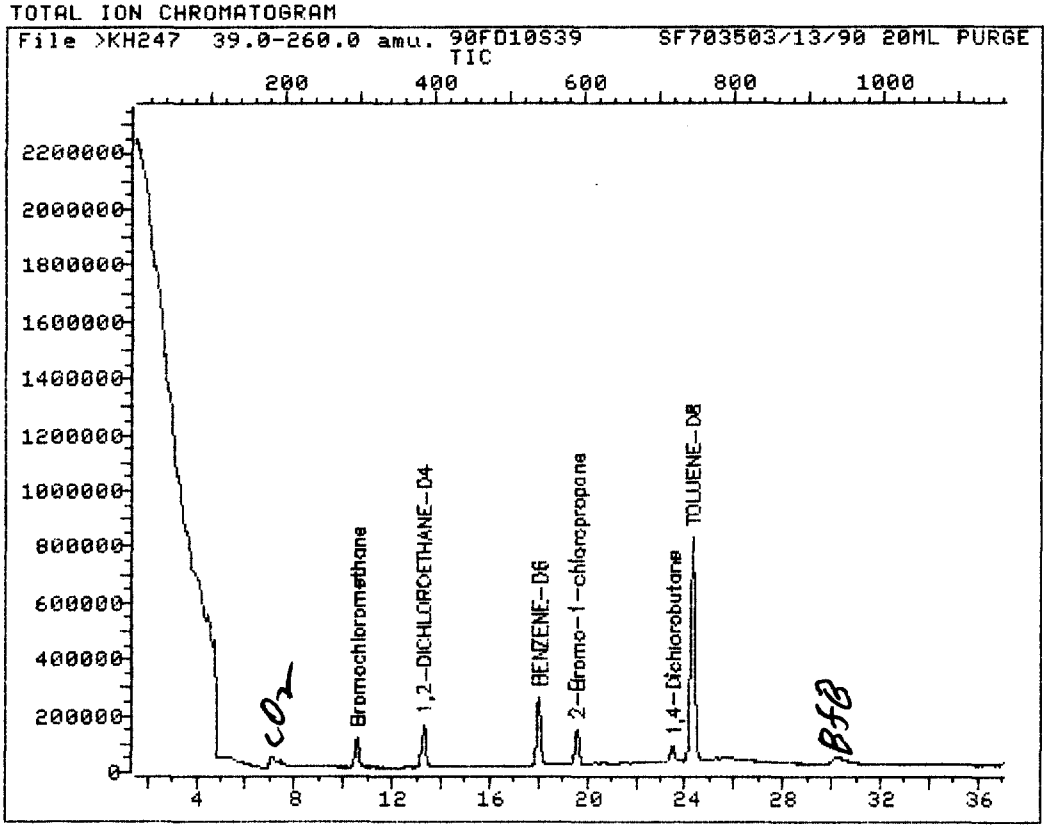
Operator ID: CHACKO Quant Rev: 6 Quant Time: 900313 17:25
Output File: ^KH246::S1 Injected at: 900313 16:45
Data File: >KH246::A8 Dilution Factor: 1.00000
Name: 90FD10S38 SF7035
Misc: 03/13/90 20ML PURGE

ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.56	130.0	209899	10.00	UG/L	97
15)	1,2-DICHLOROETHANE-D4	13.29	65.0	635601	10.59	UG/L	85
17)	*2-Bromo-1-chloropropane	19.56	77.0	876632	10.00	UG/L	99
26)	BENZENE-D6	18.00	84.0	1683757	9.60	UG/L	98
33)	*1,4-Dichlorobutane	23.50	55.0	447947	10.00	UG/L	96
38)	TOLUENE-D8	24.30	98.0	4308824	8.92	UG/L	97

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >KH247::A8 Quant Output File: ^KH247::S1
Name: 90FD10S39 SF7035
Misc: 03/13/90 20ML PURGE

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

Operator ID: CHACKO
Quant Time: 900313 18:13
Injected at: 900313 17:32

QUANT REPORT

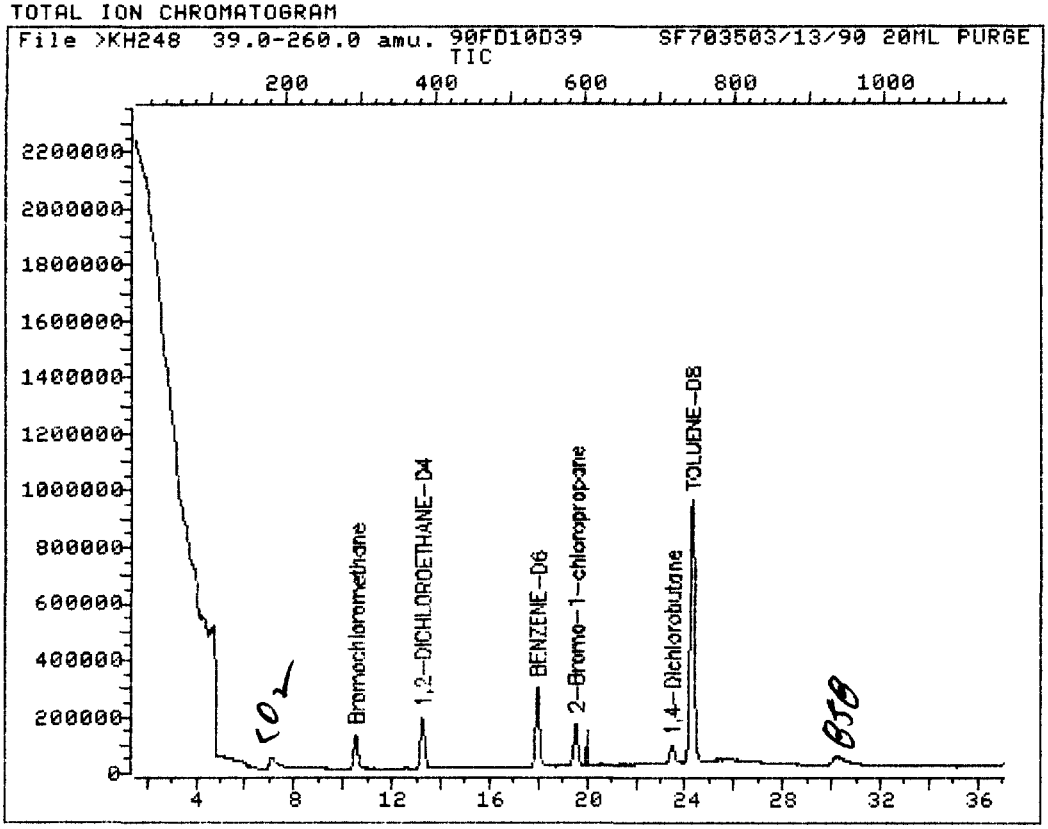
Operator ID: CHACKO Quant Rev: 6 Quant Time: 900313 18:13
Output File: ^KH247::S1 Injected at: 900313 17:32
Data File: >KH247::A8 Dilution Factor: 1.00000
Name: 90FD10S39 SF7035
Misc: 03/13/90 20ML PURGE

ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.56	130.0	165763	10.00	UG/L	96
15)	1,2-DICHLOROETHANE-D4	13.29	65.0	500160	10.55	UG/L	85
17)	*2-Bromo-1-chloropropane	19.55	77.0	682529	10.00	UG/L	99
26)	BENZENE-D6	18.03	84.0	1349525	9.89	UG/L	98
33)	*1,4-Dichlorobutane	23.50	55.0	354780	10.00	UG/L	93
38)	TOLUENE-D8	24.30	98.0	3432362	8.97	UG/L	99

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >KH248::A8 Quant Output File: ^KH248::S1
Name: 90FD10D39 SF7035
Misc: 03/13/90 20ML PURGE

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

Operator ID: CHACKO
Quant Time: 900313 19:00
Injected at: 900313 18:20

QUANT REPORT

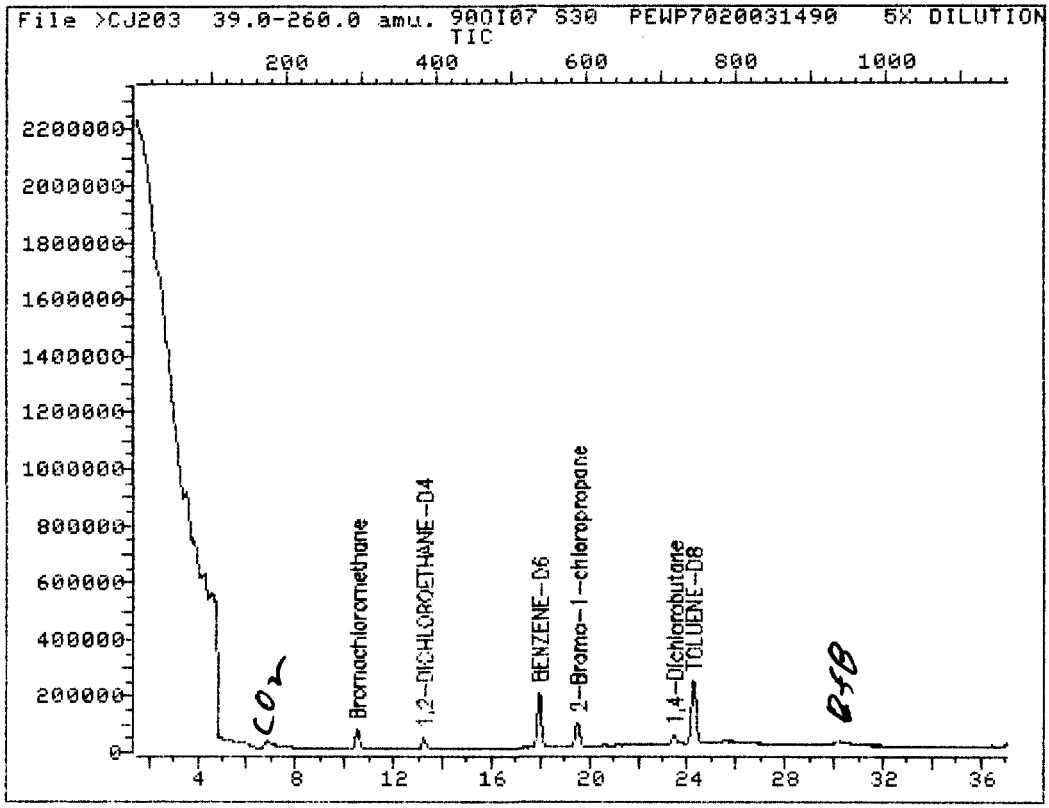
Operator ID: CHACKO Quant Rev: 6 Quant Time: 900313 19:00
Output File: ^KH248::S1 Injected at: 900313 18:20
Data File: >KH248::A8 Dilution Factor: 1.00000
Name: 90FD10D39 SF7035
Misc: 03/13/90 20ML PURGE

ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.53	130.0	192477	10.00	UG/L	95
15)	1,2-DICHLOROETHANE-D4	13.25	65.0	593735	10.79	UG/L	85
17)	*2-Bromo-1-chloropropane	19.52	77.0	801097	10.00	UG/L	99
26)	BENZENE-D6	17.96	84.0	1561035	9.74	UG/L	98
33)	*1,4-Dichlorobutane	23.47	55.0	419358	10.00	UG/L	96
38)	TOLUENE-D8	24.30	98.0	4008549	8.86	UG/L	99

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >CJ203::A3 Quant Output File: ^CJ203::E1
Name: ~~900I07 S30 PEWP7020~~ 90FD10540 5F7035
Misc: 031490 5X DILUTION
KDV 3/22/90

Id File: IDCJ3D::D3
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900315 11:43

Operator ID: CHACKO
Quant Time: 900315 12:18
Injected at: 900314 22:40

QUANT REPORT

Operator ID: CHACKO Quant Rev: 6 Quant Time: 900315 12:18
Output File: ^CJ203::E1 Injected at: 900314 22:40
Data File: >CJ203::A3 Dilution Factor: 1.00000
Name: ~~900107 S30 PEWP7828~~ 90FD10540 SF7035
Misc: 031490 5% DILUTION

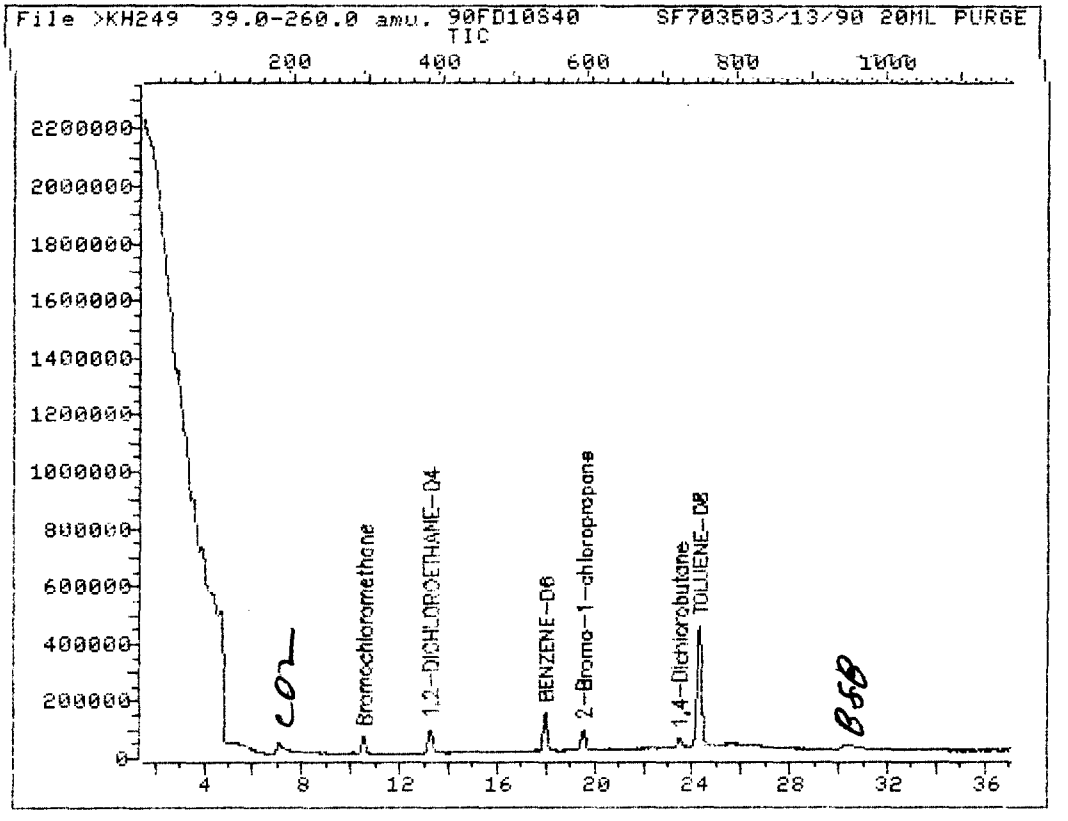
KOH
3/22/90

ID File: IDCJ3D::D3
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900315 11:43

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.50	130.0	112474	10.00	UG/L	96
15)	1,2-DICHLOROETHANE-D4	13.25	65.0	124901	9.68	UG/L	87
17)	*2-Bromo-1-chloropropane	19.52	77.0	452882	10.00	UG/L	99
26)	BENZENE-D6	17.96	84.0	1071909	10.36	UG/L	97
33)	*1,4-Dichlorobutane	23.47	55.0	211738	10.00	UG/L	98
38)	TOLUENE-D8	24.26	98.0	989134	10.79	UG/L	98

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >KH249::A8 Quant Output File: ^KH249::S1
Name: 90FD10S40 SF7035
Misc: 03/13/90 20ML PURGE

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

Operator ID: CHACKO
Quant Time: 900313 19:48
Injected at: 900313 19:07

QUANT REPORT

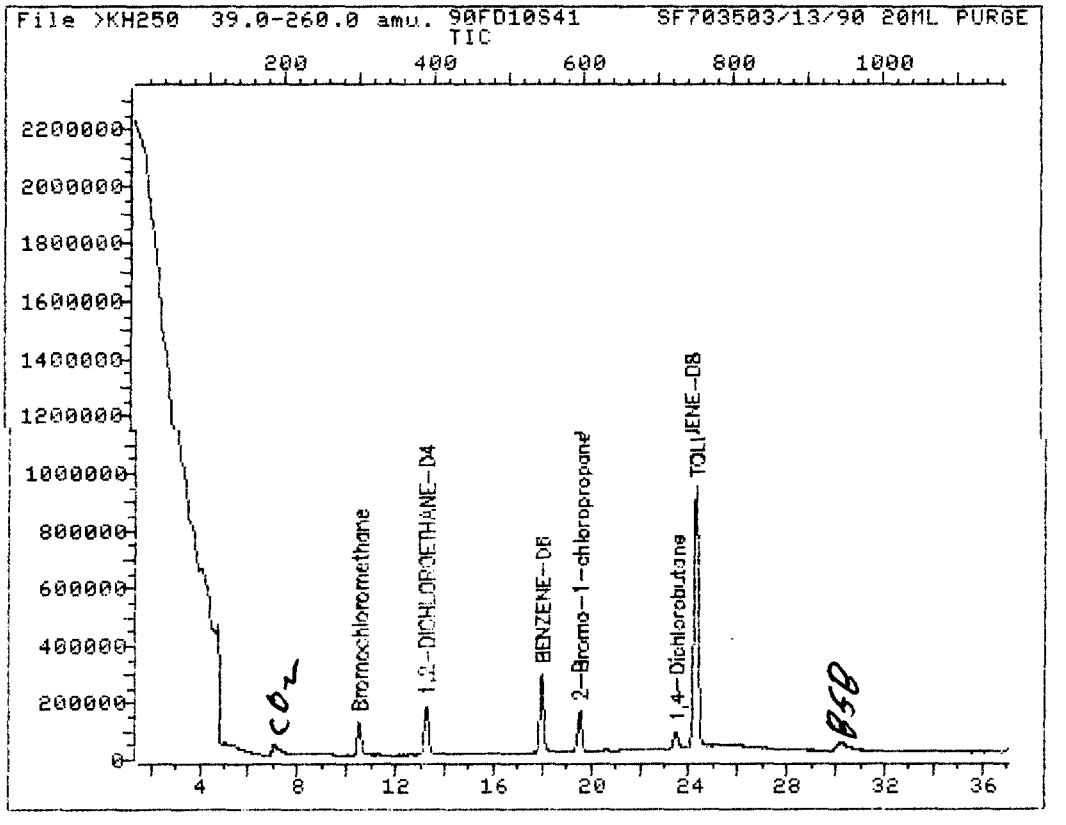
Operator ID: CHACKO Quant Rev: 6 Quant Time: 900313 19:48
Output File: ^KH249::S1 Injected at: 900313 19:07
Data File: >KH249::A8 Dilution Factor: 1.00000
Name: 90FD10S40 SF7035
Misc: 03/13/90 20ML PURGE

ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.53	130.0	89164	10.00	UG/L	98
15)	1,2-DICHLOROETHANE-D4	13.25	65.0	284599	11.16	UG/L	85
17)	*2-Bromo-1-chloropropane	19.55	77.0	379624	10.00	UG/L	98
26)	BENZENE-D6	17.99	84.0	750967	9.89	UG/L	98
33)	*1,4-Dichlorobutane	23.47	55.0	196832	10.00	UG/L	95
38)	TOLUENE-D8	24.29	98.0	1847609	8.70	UG/L	99

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >KH250::A8 Quant Output File: ^KH250::S1
Name: 90FD10S41 SF7035
Misc: 03/13/90 20ML PURGE

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

Operator ID: CHACKO
Quant Time: 900313 20:35
Injected at: 900313 19:54

QUANT REPORT

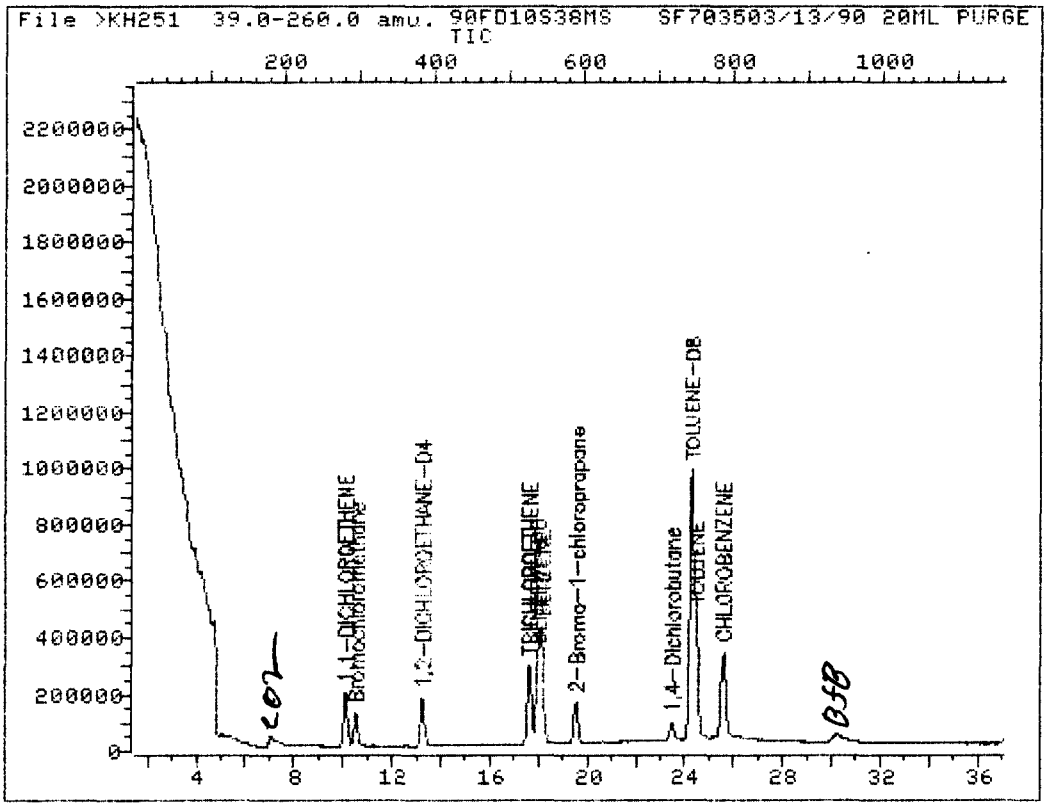
Operator ID: CHACKO Quant Rev: 6 Quant Time: 900313 20:35
Output File: ^KH250::S1 Injected at: 900313 19:54
Data File: >KH250::A8 Dilution Factor: 1.00000
Name: 90FD10S41 SF7035
Misc: 03/13/90 20ML PURGE

ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.53	130.0	182040	10.00	UG/L	98
15)	1,2-DICHLOROETHANE-D4	13.26	65.0	565943	10.87	UG/L	85
17)	*2-Bromo-1-chloropropane	19.55	77.0	758900	10.00	UG/L	99
26)	BENZENE-D6	17.99	84.0	1532919	10.10	UG/L	98
33)	*1,4-Dichlorobutane	23.50	55.0	378561	10.00	UG/L	95
38)	TOLUENE-D8	24.30	98.0	3922035	9.60	UG/L	97

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >KH251::A8 Quant Output File: ^KH251::S1
Name: 90FD10S38MS SF7035
Misc: 03/13/90 20ML PURGE

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

Operator ID: CHACKO
Quant Time: 900313 21:23
Injected at: 900313 20:42

QUANT REPORT

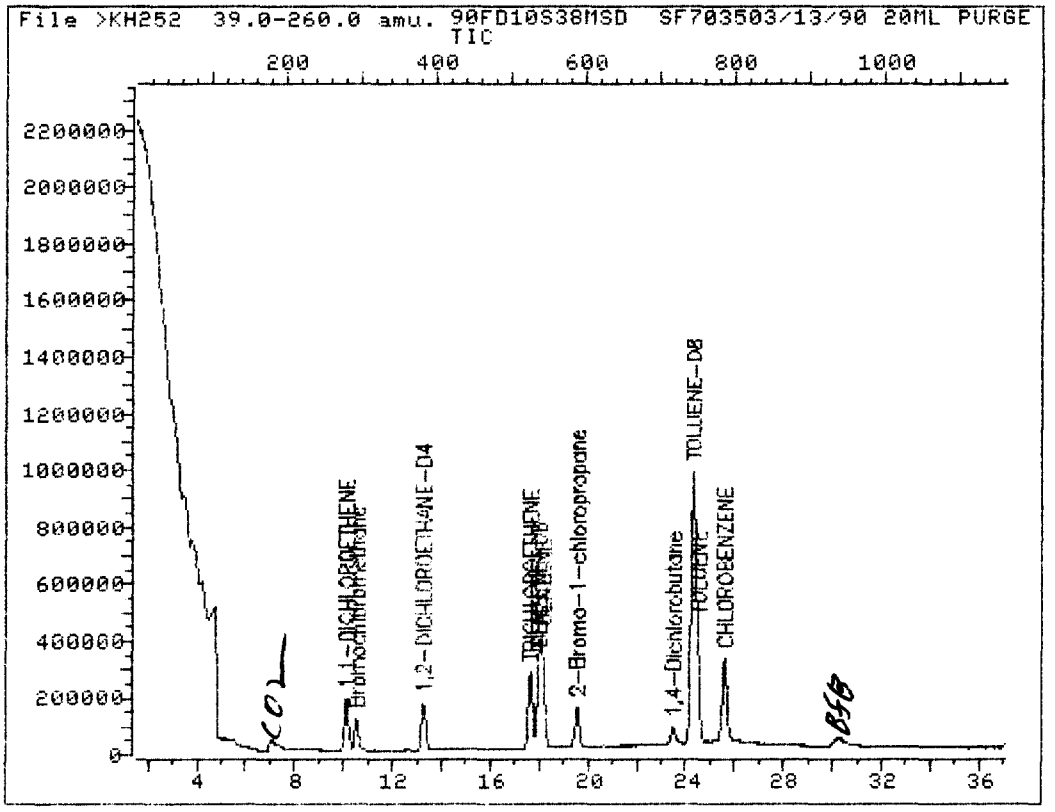
Operator ID: CHACKO Quant Rev: 6 Quant Time: 900313 21:23
Output File: ^KH251::S1 Injected at: 900313 20:42
Data File: >KH251::A8 Dilution Factor: 1.00000
Name: 90FD10S38MS SF7035
Misc: 03/13/90 20ML PURGE

ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.53	130.0	183075	10.00	UG/L	95
11)	1,1-DICHLOROETHENE	10.11	96.0	422658	10.12	UG/L	77
15)	1,2-DICHLOROETHANE-D4	13.26	65.0	558331	10.67	UG/L	84
17)	*2-Bromo-1-chloropropane	19.56	77.0	769090	10.00	UG/L	99
25)	TRICHLOROETHENE	17.63	130.0	528674	10.24	UG/L	98
26)	BENZENE-D6	17.96	84.0	1545376	10.05	UG/L	98
27)	BENZENE	18.12	78.0	2082587	10.54	UG/L	99
33)	*1,4-Dichlorobutane	23.47	55.0	379704	10.00	UG/L	95
38)	TOLUENE-D8	24.30	98.0	4001006	9.77	UG/L	99
39)	TOLUENE	24.48	92.0	1188873	10.51	UG/L	98
40)	CHLOROBENZENE	25.58	112.0	1197066	10.79	UG/L	99

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >KH252::A8 Quant Output File: ^KH252::S1
Name: 90FD10S38MSD SF7035
Misc: 03/13/90 20ML PURGE

Id File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

Operator ID: CHACKO
Quant Time: 900313 22:10
Injected at: 900313 21:29

QUANT REPORT

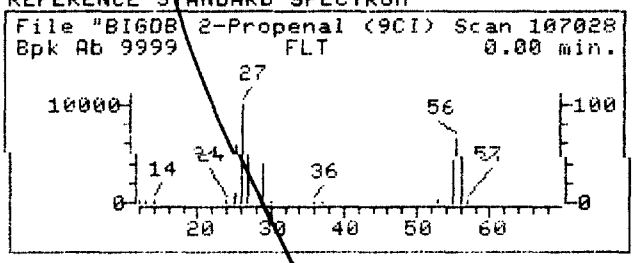
Operator ID: CHACKO Quant Rev: 6 Quant Time: 900313 22:10
Output File: ^KH252::S1 Injected at: 900313 21:29
Data File: >KH252::A8 Dilution Factor: 1.00000
Name: 90FD10S38MSD SF7035
Misc: 03/13/90 20ML PURGE

ID File: IDKT30::A8
Title: ID FOR 624NS HP5985B KT 12\28\89 20ML PURGE
Last Calibration: 900313 15:05

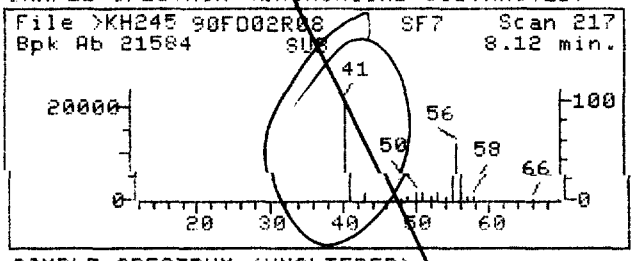
	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*Bromochloromethane	10.53	130.0	176791	10.00	UG/L	97
11)	1,1-DICHLOROETHENE	10.11	96.0	398177	9.88	UG/L	76
15)	1,2-DICHLOROETHANE-D4	13.26	65.0	547721	10.83	UG/L	84
17)	*2-Bromo-1-chloropropane	19.52	77.0	751727	10.00	UG/L	99
25)	TRICHLOROETHENE	17.63	130.0	504295	9.99	UG/L	96
26)	BENZENE-D6	17.96	84.0	1540778	10.25	UG/L	98
27)	BENZENE	18.12	78.0	1993125	10.32	UG/L	95
33)	*1,4-Dichlorobutane	23.47	55.0	372784	10.00	UG/L	96
38)	TOLUENE-D8	24.30	98.0	3982340	9.90	UG/L	99
39)	TOLUENE	24.48	92.0	1138738	10.26	UG/L	95
40)	CHLOROBENZENE	25.58	112.0	1147312	10.53	UG/L	98

* Compound is ISTD

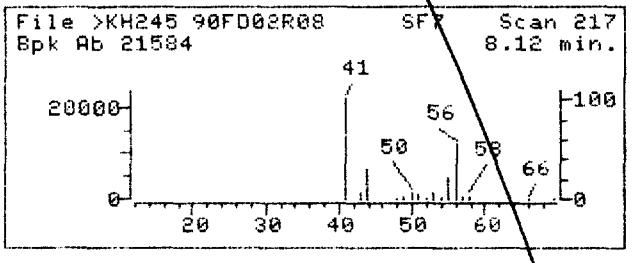
REFERENCE STANDARD SPECTRUM

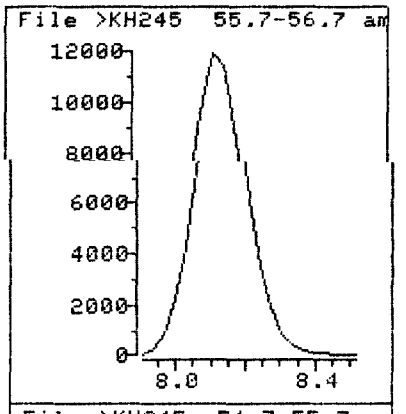


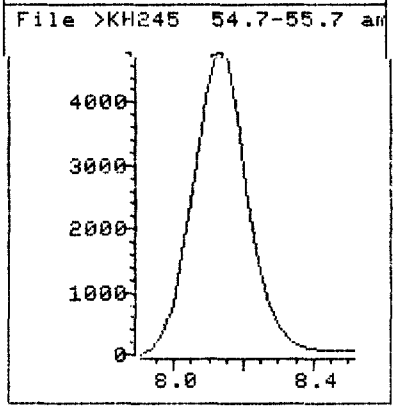
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >KH245::A8
Name: 90FD02R08 SF7035
Misc: 03/13/90 20ML PURGE
Quant Time: 900313 16:38
Injected at: 900313 15:57

Quant Output File: ^KH245::S1

Quant ID File: IDKT30::A8
Last Calibration: 900313 15:05

Compound No: 7
Compound Name: ACROLEIN
Scan Number: 217
Retention Time: 8.12 min.
Quant Ion: 56.0
Area: 130428
Concentration: 111.11 UG/L
q-value: 68

reported as unknown alkane as per EPA

KDH 3/26/90

U.S. EPA - REGION V
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FD10S40

Study Name: TRAKKER CHEMICAL CO. | 2
Data Set: SF7035 Date Received: 03/09/90
Lab File ID: >KH249 Date Analyzed: 3/13/90
Matrix: (soil/water) WATER Dilution Factor: 1.0
Sample wt/vol: 20 mL Level:(low/med) LOW

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
74-87-3	Chloromethane	3.	U
74-83-9	Bromomethane	3.	U
75-01-4	Vinyl Chloride	3.	U
75-00-3	Chloroethane	3.	U
75-09-2	Methylene Chloride	1.	U
107-02-8	Acrolein	75.	U
67-64-1	Acetone	50.	U
107-13-1	Acrylonitrile	50.	U
75-15-0	Carbon Disulfide	2.	U
75-35-4	1,1-Dichloroethene	1.	U
75-34-3	1,1-Dichloroethane	1.	U
156-60-5	1,2-Dichloroethene (total)	1.	U
67-66-3	Chloroform	1.	U
107-02-2	1,2-Dichloroethane	1.	U
78-93-3	2-Butanone	20.	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	1.	U
71-43-2	Benzene	1.	U
124-48-1	Dibromochloromethane	1.	U
10061-02-6	trans-1,3-Dichloropropene	1.	U
79-00-5	1,1,2-Trichloroethane	1.	U
110-75-8	2-Chloroethyl Vinylether	1.	U
75-25-2	Bromoform	1.	U
108-10-1	4-Methyl-2-pentanone	4.	U
591-78-6	2-Hexanone	4.	U
127-18-4	Tetrachloroethene	1.	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	Meta Xylene	2.	U
95-47-6	O-&/or P-Xylene	2.	U

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES NO

KDH 3/22/90

Sequence File: S_309::S1

Tune File: MTBFB3

CR List: A8,S1,A3
CR Cut-off: 650 blocks.

Number of samples: 4

Samp No.	Data File / Method File	Sample Name / Misc Data	Bottle	Sample	Size	Quant	Report	Data	Archive	ID	Archive	Output	Quant ID / Quant Output
001)	>KH228	VSTD005	00	3	Y	S	N	N	N				IDKT30::A8
	VOA#3	3/09/90 20ML PURGE		Dil=1.00000									^KH228::S1
002)	>KH229	VSTD010	00	3	Y	S	N	N	N				IDKT30::A8
	VOA#3	3/09/90 20ML PURGE		Dil=1.00000									^KH229::S1
003)	>KH230	VSTD020	00	3	Y	S	N	N	N				IDKT30::A8
	VOA#3	3/09/90 20ML PURGE		Dil=1.00000									^KH230::S1
004)	>KH231	VSTD025	00	3	Y	S	N	N	N				IDKT30::A8
	VOA#3	3/09/90 20ML PURGE		Dil=1.00000									^KH231::S1

End of sequence file.

>KH226 VBLK0309

Sequence File: JUNK::S1

240

Tune File: MTBFB3

CR List: A8,S1
CR Cut-off: 650 blocks.

241
242 2

Number of samples: 10

Samp No.	Data File / Method File	Sample Name / Misc Data		Bottle	Sample Size	Quant	Report	Data	Archive	ID	Archive	Output	Archive	Quant ID / Quant Output
001)	>KH243	BLANK DI		00	3	Y	S	N	N	N				IDKT30::A8
	VOA#3				Dil=1.00000									^KH243::S1
002)	>KH244	313BLK2	SF7035	00	3	Y	S	N	N	N				IDKT30::A8
	VOA#3	03/13/90 20ML	PURGE		Dil=1.00000									^KH244::S1
003)	>KH245	90FD02R08	SF7035	00	3	Y	S	N	N	N				IDKT30::A8
	VOA#3	03/13/90 20ML	PURGE		Dil=1.00000									^KH245::S1
004)	>KH246	90FD10S38	SF7035	00	3	Y	S	N	N	N				IDKT30::A8
	VOA#3	03/13/90 20ML	PURGE		Dil=1.00000									^KH246::S1
005)	>KH247	90FD10S39	SF7035	00	3	Y	S	N	N	N				IDKT30::A8
	VOA#3	03/13/90 20ML	PURGE		Dil=1.00000									^KH247::S1
006)	>KH248	90FD10D39	SF7035	00	3	Y	S	N	N	N				IDKT30::A8
	VOA#3	03/13/90 20ML	PURGE		Dil=1.00000									^KH248::S1
007)	>KH249	90FD10S40	SF7035	00	3	Y	S	N	N	N				IDKT30::A8
	VOA#3	03/13/90 20ML	PURGE		Dil=1.00000									^KH249::S1
008)	>KH250	90FD10S41	SF7035	00	3	Y	S	N	N	N				IDKT30::A8
	VOA#3	03/13/90 20ML	PURGE		Dil=1.00000									^KH250::S1
009)	>KH251	90FD10S38MS	SF7035	00	3	Y	S	N	N	N				IDKT30::A8
	VOA#3	03/13/90 20ML	PURGE		Dil=1.00000									^KH251::S1
010)	>KH252	90FD10S38MSD	SF7035	00	3	Y	S	N	N	N				IDKT30::A8
	VOA#3	03/13/90 20ML	PURGE		Dil=1.00000									^KH252::S1

End of sequence file.

NB, Daily
4 Samples → $295X
3-QC
4 Samples
13

30
31
325X

55 MIN Run for Aromatics

Sequence File: BACJ3F::XX

Tune File: MTBFB3

CR List: A3,A2,A4
CR Cut-off: 1500 blocks.

Number of samples: 16

	Samp No.	Data File / Method File	Sample Name / Misc Data		Bottle	Sample Size	Quant	Report	Data Archive	ID Archive	Output Archive	Quant ID / Quant Output
3	001)	>CJ193	MB	PEWP 7020	00	3	Y	M	N	N	N	IDCJ3C::D3
		VOA#3	031490	20 ML			Dil=1.00000					^CJ193::QT
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										
4	002)	>CJ194	STD15PPB	PEWP7020	00	3	Y	M	N	N	N	IDCJ3C::D3
		VOA#3	031490	20 ML			Dil=1.00000					^CJ194::QT
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										
5	003)	>CJ195 5X	900I07 S29	PEWP7020	00	3	Y	M	N	N	N	IDCJ3C::D3 — 5X, 10X
		VOA#3	031490	20 ML			Dil=1.00000					^CJ195::QT
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										
6	004)	>CJ196 X	900I07 S30	PEWP7020	00	3	Y	M	N	N	N	IDCJ3C::D3
		VOA#3	031490	5X DILUTION			Dil=1.00000					^CJ196::QT
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										
7	005)	>CJ197	900I07 S31	PEWP7020	00	3	Y	M	N	N	N	IDCJ3C::D3 OK
		VOA#3	031490				Dil=1.00000					^CJ197::QT
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										
8	006)	>CJ198	900I07 S32	PEWP7020	00	3	Y	M	N	N	N	IDCJ3C::D3 OK
		VOA#3	031490	5X DILUTION			Dil=1.00000					^CJ198::QT
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										
9	007)	>CJ199	900I07 S30	PEWP7020	00	3	Y	M	N	N	N	IDCJ3C::D3 OK
		VOA#3	031490				Dil=1.00000					^CJ199::QT
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										
10	008)	~~>CJ200~~	~~900I07 S32~~	~~PEWP7020~~	~~00~~	~~3~~	~~Y~~	~~M~~	~~N~~	~~N~~	~~N~~	~~IDCJ3C::D3~~
		VOA#3	031490				Dil=1.00000					^CJ200::QT
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										
11	009)	>CJ201	SUPELCO DA	PEWP7020	00	3	Y	M	N	N	N	IDCJ3C::D3
		VOA#3	031490	2 UL EACH			Dil=1.00000					^CJ201::QT
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										
12	010)	>CJ202	900I07 S29	PEWP7020	00	3	Y	M	N	N	N	IDCJ3C::D3
		VOA#3	031490				Dil=1.00000					^CJ202::QT
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										
13	011)	>CJ203	~~900I07 S30~~	PEWP7020	00	3	Y	M	N	N	N	IDCJ3C::D3 90FD1
		VOA#3	031490	5X DILUTION			Dil=1.00000					^CJ203::QT $40
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										
14	012)	>CJ204	900I07 S31	PEWP7020	00	3	Y	M	N	N	N	IDCJ3C::D3
		VOA#3	031490				Dil=1.00000					^CJ204::QT
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										
15	013)	>CJ205	900I07 S32	PEWP7020	00	3	Y	M	N	N	N	IDCJ3C::D3
		VOA#3	031490	5X DILUTION			Dil=1.00000					^CJ205::QT
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										
16	014)	>CJ206	900I07 S30	PEWP7020	00	3	Y	M	N	N	N	IDCJ3C::D3
		VOA#3	031490				Dil=1.00000					^CJ206::QT
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										
1	015)	~~>CJ207~~	~~900I07 S32~~	~~PEWP7020~~	00	3	Y	M	N	N	N	IDCJ3C::D3
		VOA#3	031490				Dil=1.00000					^CJ207::QT
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										
2	016)	>CJ208	CRLQC A.	PEWP7020	00	3	Y	M	N	N	N	IDCJ3C::D3 } inject 2 µL
		VOA#3	031490				Dil=1.00000					^CJ208::QT
		REPRT OPTIONS: Label Meth:1, BG Sub, Qion replaces Scan#										

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: APR 09 1990

SUBJECT: Review of Region 5 data for Trekka Chemical Co.

FROM: Curtis Ross, Director
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF 7035
Sample Numbers: 90FD10538-541, D39, 90FD02R08
Parameter(s): ICP
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 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)

TRANSMITTED BY
APR 09 1990
U.S. EPA CENTRAL
REGIONAL LAB

RECEIVED BY/DATE:

Comments:

DATA SET	SITE	DU/ACT.
SF 7035	Trekker Chemical	TFA302

OTFA05WUZZ

SAMPLES	PARAMETER(S)
90FD10 S38-S41, D39, 90FD02R08	ICP

SAMPLED	RECEIVED	DUE	LAB
8 Mar 90	9 Mar 90	30 Mar 90	CRL

SHIPPED	DATA RECEIVED	CONTRACT
NA →	→	→

Comments By Reviewer: Cu confirmed in undigested 90FD02R08
Ca not confirmed in undigested field blank

Co detection limit raised to 20 µg/L due to drift in channel

(X) REVIEWED ( ) UNREVIEWED TEAM LEADER/DATE John V. Moore 5 Apr 90

( ) REVIEWED (✓) UNREVIEWED SECTION CHIEF/DATE Chi Yang 4/9/90

( ) REVIEWED ( ) UNREVIEWED QC COORDINATOR/DATE

REVIEWED BY CONTRACT COORDINATOR/DATE

RECEIVED	TRANSMITTED	DATA MANAGEMENT COORDINATOR
4-9-90	4-9-90	Griffin

JM
5 Apr 90

Trekker Chemical

SAMPLE REPORT

Sample SF7035 FD10S38 Operator

Date analyzed 03/27/90 Correction 1.22000 File name RUN761B

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Boron	285.	micrograms/liter
Barium	84.8	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	52100.	micrograms/liter
Cobalt	20.0 U	micrograms/liter
Chromium	8.0 U	micrograms/liter
Copper	7.8	micrograms/liter
Magnesium	29600.	micrograms/liter
Iron	1230.	micrograms/liter
Potassium	5000. U	micrograms/liter
Lithium	10.0 U	micrograms/liter
Manganese	27.2	micrograms/liter
Molybdenum	15.0 U	micrograms/liter
Sodium	27100.	micrograms/liter
Nickel	25.0 U	micrograms/liter
Tin	40.0 U	micrograms/liter
Strontium	869.	micrograms/liter
Titianium	25.0 U	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	69.2	micrograms/liter

MS 3/29/90

JVM
5 Apr 90

SAMPLE REPORT

Sample SF7035 FD10S39 Operator

Date analyzed 03/27/90 Correction 1.22000 File name RUN761B

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Boron	188.	micrograms/liter
Barium	75.4	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	66100.	micrograms/liter
Cobalt	20.0 U	micrograms/liter
Chromium	8.2	micrograms/liter
Copper	6.0 U	micrograms/liter
Magnesium	29400.	micrograms/liter
Iron	1840.	micrograms/liter
Potassium	5000. U	micrograms/liter
Lithium	10.0 U	micrograms/liter
Manganese	24.0	micrograms/liter
Molybdenum	15.0 U	micrograms/liter
Sodium	18300.	micrograms/liter
Nickel	25.0 U	micrograms/liter
Tin	40.0 U	micrograms/liter
Strontium	520.	micrograms/liter
Titianium	25.0 U	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	40.4	micrograms/liter

MS 3/29/90

JM
5 Apr 90

SAMPLE REPORT

Sample SF7035 FD10D39 Operator

Date analyzed 03/27/90 Correction 1.22000 File name RUN761B

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Boron	191.	micrograms/liter
Barium	73.7	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	66000.	micrograms/liter
Cobalt	20.0 U	micrograms/liter
Chromium	8.0 U	micrograms/liter
Copper	47.1	micrograms/liter
Magnesium	29500.	micrograms/liter
Iron	1810.	micrograms/liter
Potassium	5000. U	micrograms/liter
Lithium	10.0 U	micrograms/liter
Manganese	23.5	micrograms/liter
Molybdenum	15.0 U	micrograms/liter
Sodium	18300.	micrograms/liter
Nickel	25.0 U	micrograms/liter
Tin	40.0 U	micrograms/liter
Strontium	519.	micrograms/liter
Titianium	25.0 U	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	70.1	micrograms/liter

MS 3/29/90

JM
5 Apr 90

SAMPLE REPORT

Sample 5F7035 FD10S40 Operator

Date analyzed 03/27/90 Correction 1.22000 File name RUN761B

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Boron	249.	micrograms/liter
Barium	107.	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	54800.	micrograms/liter
Cobalt	20.0 U	micrograms/liter
Chromium	8.0 U	micrograms/liter
Copper	6.0 U	micrograms/liter
Magnesium	31100.	micrograms/liter
Iron	516.	micrograms/liter
Potassium	5000. U	micrograms/liter
Lithium	10.0 U	micrograms/liter
Manganese	8.7	micrograms/liter
Molybdenum	15.0 U	micrograms/liter
Sodium	28500.	micrograms/liter
Nickel	25.0 U	micrograms/liter
Tin	40.0 U	micrograms/liter
Strontium	537.	micrograms/liter
Titianium	25.0 U	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	40.0 U	micrograms/liter

MS 3/29/90

Jun 5 Apr 90

SAMPLE REPORT

Sample SF7035 FD10S41 Operator

Date analyzed 03/27/90 Correction 1.22000 File name RUN761B

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Boron	119.	micrograms/liter
Barium	74.3	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	63500.	micrograms/liter
Cobalt	20.0 U	micrograms/liter
Chromium	8.0 U	micrograms/liter
Copper	6.0 U	micrograms/liter
Magnesium	33300.	micrograms/liter
Iron	2100.	micrograms/liter
Potassium	5000. U	micrograms/liter
Lithium	10.0 U	micrograms/liter
Manganese	18.8	micrograms/liter
Molybdenum	15.0 U	micrograms/liter
Sodium	14100.	micrograms/liter
Nickel	25.0 U	micrograms/liter
Tin	40.0 U	micrograms/liter
Strontium	840.	micrograms/liter
Titianium	25.0 U	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	40.0 U	micrograms/liter

MS 3/29/90

Jm
5 Apr 90

SAMPLE REPORT

Sample SF7035 ~~FD10R08~~ FD02R08 Operator

Date analyzed 03/27/90 Correction 1.22000 File name RUN761B

Element	Concentration	Units
Silver	6.0 U	micrograms/liter
Aluminum	80.0 U	micrograms/liter
Boron	80.0 U	micrograms/liter
Barium	6.0 U	micrograms/liter
Beryllium	1.0 U	micrograms/liter
Calcium	520.	micrograms/liter
Cobalt	20.0 U	micrograms/liter
Chromium	8.0 U	micrograms/liter
Copper	28.3	micrograms/liter
Magnesium	100. U	micrograms/liter
Iron	80.0 U	micrograms/liter
Potassium	5000. U	micrograms/liter
Lithium	10.0 U	micrograms/liter
Manganese	5.0 U	micrograms/liter
Molybdenum	15.0 U	micrograms/liter
Sodium	1000. U	micrograms/liter
Nickel	25.0 U	micrograms/liter
Tin	40.0 U	micrograms/liter
Strontium	10.0 U	micrograms/liter
Titanium	25.0 U	micrograms/liter
Vanadium	5.0 U	micrograms/liter
Zinc	40.0 U	micrograms/liter

MS 3/29/90

JVM
5 Apr 90

DIGESTION RECORD

Prepared by MS Date 3/19/90 Run Number 761

Cr contaminated ~~contaminated~~ vessel

Vessel Number	Data Set	Sample Number	Notes	Vessel Number	Data Set	Sample Number	Notes
1	SF7027	ZF16 S62		21	ED07036	EB01 S06	
2		ZF16 S64	unfiltered	22		EB01 S08	
3		ZF16 D64		23		EB01 S09	
4		ZF16 R91		24	←	Blank	→
5		ZF16 F62		25	SF 7035	FD10 S38	Dup
6		ZF16 F64	filtered	26	↓	FD10 S38	Spike
7		ZF16 FD64		27	ED0 7036	EB01 S10	
8	↓	ZF16 R99		28		S11	
9	CRL 7019	OI06 S01		29		R07	
10		OI06 S01	Dup	30		S15	
11	↓	OI06 S01	Spike	31		S16	
12	←	Blank	→	32		S17	
13	CRL 7019	OI06 S02		33		S18	
14	SF 7035	FD10 S38		34		S19	
15		FD10 S39		35		S20	
16		FD10 R39		36	↓	R12	
17		FD10 S40		37		EB01 S10	Dup
18		FD10 S41		38	↓	EB01 S10	Spike
19	↓	~~FD10~~ D2 R08		39	Blank		
20	ED0 7036	EB01 S03		~~40~~			

COMMENTS:

JVR
5 Apr 90

DIGESTION RECORD

Prepared by | Date | Run Number 761 continued

Vessel Number	Data Set	Sample Number	Notes	Vessel Number	Data Set	Sample Number	Notes
40	CD0 7042	CD04 S03		14	ED0 7045	EM05 S31	
41		CD04 S04		15		Blank	
42		CD04 S05		16	ED0 7045	EM05 S04	Dup
43		CD04 S06		17		EM05 S04	Spike
44		CD04 S07		18		Blank	
45		CD04 S08		19	CRL 7019	OI06 S03	
46		CD04 S09		20		S04	
47		CD04 R01		21		R01	
1	ED0 7045	EM05 R25		22	PEWP 7020	OI07 S01	
2	CD0 7042	CD04 S03	Dup	23		S02	
3	CD0 7042	CD04 S03	Spike	24		S03	
4	ED0 7045	EM05 S04		25		S04	
5		S07		3		S01	
6		S09		4		S02	
7		S12		5		S03	
8		S14		6		S04	
9		S16		7		Howard	Blank
10		S18		8		Marilyn	Blank
12		S20		9	SBA	1	
13		R22		10	SBA	2	

Pb on furnace

Insert 15

COMMENTS:

Co detection limit changed to 20 because of negative diff
Y not reported. MS

JVM
5 Apr 90

BLANK REPORT

Blank name FIRST INSTRUMENT

Operator

Date analyzed 03/27/90

File name RUN761B

Element	Blank Value	Detection limit	Units
Ag	0.34	6.0	ug/L
Alhigh	-2.70	20000.0	ug/L
Allow	12.15	80.0	ug/L
As	38.60	50.0	ug/L
B	2.25	80.0	ug/L
Ba	0.15	6.0	ug/L
Be	0.06	1.0	ug/L
Cahigh	0.90	20000.0	ug/L
Calow	-1.10	500.0	ug/L
Cd	0.31	10.0	ug/L
Co	-0.97	6.0	ug/L
Cr	1.44	8.0	ug/L
Cu	1.09	6.0	ug/L
Mghigh	-28.70	20000.0	ug/L
Mglow	4.00	100.0	ug/L
Felow	4.58	80.0	ug/L
Fehigh	-10.00	20000.0	ug/L
K	-67.50	5000.0	ug/L
Li	-1.08	10.0	ug/L
Mn	-0.05	5.0	ug/L
Mo	3.24	15.0	ug/L
Na	-9.80	1000.0	ug/L
Ni	0.71	25.0	ug/L
Pb	4.11	70.0	ug/L
Sn	-10.02	40.0	ug/L
Sr	-1.16	10.0	ug/L
Ti	0.00	25.0	ug/L
V	1.10	5.0	ug/L
Y	-1.36	5.0	ug/L
Znlow	-0.51	40.0	ug/L
Znhigh	30.40	20000.0	ug/L

MS
3/29/90

All values for the blank are less than detection limit.

JM
3/29/90

BLANK REPORT

Blank name SECOND INSTRUMENT Operator

Date analyzed 03/27/90 File name RUN761B

Element	Blank Value	Detection limit	Units
Ag	-0.25	6.0	ug/L
Alhigh	9.50	20000.0	ug/L
Allow	4.60	80.0	ug/L
As	40.28	50.0	ug/L
B	2.20	80.0	ug/L
Ba	0.21	6.0	ug/L
Be	0.09	1.0	ug/L
Cahigh	14.80	20000.0	ug/L
Calow	3.80	500.0	ug/L
Cd	-1.34	10.0	ug/L
Co	-5.58	6.0	ug/L
Cr	-3.79	8.0	ug/L
Cu	0.46	6.0	ug/L
Mghigh	-31.50	20000.0	ug/L
Mglow	1.20	100.0	ug/L
Felow	4.24	80.0	ug/L
Fehigh	41.30	20000.0	ug/L
K	547.10	5000.0	ug/L
Li	-4.58	10.0	ug/L
Mn	0.09	5.0	ug/L
Mo	-6.52	15.0	ug/L
Na	-18.90	1000.0	ug/L
Ni	-3.01	25.0	ug/L
Pb	-37.17	70.0	ug/L
Sn	-29.29	40.0	ug/L
Sr	-5.60	10.0	ug/L
Ti	0.78	25.0	ug/L
V	1.05	5.0	ug/L
Y	-6.33 *	5.0	ug/L
Znlow	-1.10	40.0	ug/L
Znhigh	91.20	20000.0	ug/L

MS 3/29/90

Some elements have blank values greater than detection limit.

These elements are Y

Jan 5 Apr 90

BLANK REPORT

Blank name DIGESTION 24 Operator

Date analyzed 03/27/90 File name RUN761B

Element	Blank Value		Detection limit	Units
Ag	-2.47		6.0	ug/L
Alhigh	-31.50		20000.0	ug/L
Allow	9.82		80.0	ug/L
As	28.85		50.0	ug/L
B	2.03		80.0	ug/L
Ba	1.88		6.0	ug/L
Be	0.08		1.0	ug/L
Cahigh	358.90		20000.0	ug/L
Calow	376.70		500.0	ug/L
Cd	-1.94		10.0	ug/L
Co	-7.08	*	6.0	ug/L
Cr	-2.10		8.0	ug/L
Cu	3.45		6.0	ug/L
Mghigh	20.00		20000.0	ug/L
Mglow	60.30		100.0	ug/L
Felow	29.96		80.0	ug/L
Fehigh	-45.80		20000.0	ug/L
K	873.30		5000.0	ug/L
Li	-7.23		10.0	ug/L
Mn	0.41		5.0	ug/L
Mo	-11.38		15.0	ug/L
Na	91.40		1000.0	ug/L
Ni	3.67		25.0	ug/L
Pb	-1.44		70.0	ug/L
Sn	-7.92		40.0	ug/L
Sr	-6.06		10.0	ug/L
Ti	4.96		25.0	ug/L
V	1.66		5.0	ug/L
Y	-7.36	*	5.0	ug/L
Znlow	13.33		40.0	ug/L
Znhigh	-77.50		20000.0	ug/L

MS 3/29/80

Some elements have blank values greater than detection limit.

These elements are Co Y

JVM
5 Apr 90

BLANK REPORT

Blank name THIRD INSTRUMENT Operator

Date analyzed 03/27/90 File name RUN761B

Element	Blank Value	Detection limit	Units
Ag	-2.88	6.0	ug/L
Alhigh	2.70	20000.0	ug/L
Allow	10.84	80.0	ug/L
As	9.79	50.0	ug/L
B	0.63	80.0	ug/L
Ba	0.15	6.0	ug/L
Be	0.11	1.0	ug/L
Cahigh	3.60	20000.0	ug/L
Calow	4.40	500.0	ug/L
Cd	-1.42	10.0	ug/L
Co	-5.90	6.0	ug/L
Cr	-2.35	8.0	ug/L
Cu	0.91	6.0	ug/L
Mghigh	-31.10	20000.0	ug/L
Mglow	1.70	100.0	ug/L
Felow	3.57	80.0	ug/L
Fehigh	-16.30	20000.0	ug/L
K	1038.10	5000.0	ug/L
Li	-5.39	10.0	ug/L
Mn	0.00	5.0	ug/L
Mo	-6.98	15.0	ug/L
Na	-74.20	1000.0	ug/L
Ni	6.54	25.0	ug/L
Pb	22.34	70.0	ug/L
Sn	-35.64	40.0	ug/L
Sr	-5.78	10.0	ug/L
Ti	0.09	25.0	ug/L
V	0.52	5.0	ug/L
Y	-6.11 *	5.0	ug/L
Znlow	-0.93	40.0	ug/L
Znhigh	41.40	20000.0	ug/L

MS
3/29/90

Some elements have blank values greater than detection limit.

These elements are Y

JVM
5 Apr 90

BLANK REPORT

Blank name FOURTH INSTRUMENT Operator

Date analyzed 03/27/90 File name RUN761B

Element	Blank Value	Detection limit	Units
Ag	-0.95	6.0	ug/L
Alhigh	0.00	20000.0	ug/L
Allow	13.30	80.0	ug/L
As	36.33	50.0	ug/L
B	0.84	80.0	ug/L
Ba	0.10	6.0	ug/L
Be	0.12	1.0	ug/L
Cahigh	-2.70	20000.0	ug/L
Calow	0.10	500.0	ug/L
Cd	-1.46	10.0	ug/L
Co	-7.49 *	6.0	ug/L
Cr	-1.45	8.0	ug/L
Cu	3.28	6.0	ug/L
Mghigh	-33.00	20000.0	ug/L
Mglow	-0.30	100.0	ug/L
Felow	-0.56	80.0	ug/L
Fehigh	-27.50	20000.0	ug/L
K	708.30	5000.0	ug/L
Li	-4.85	10.0	ug/L
Mn	-0.14	5.0	ug/L
Mo	-6.71	15.0	ug/L
Na	-57.40	1000.0	ug/L
Ni	4.60	25.0	ug/L
Pb	27.18	70.0	ug/L
Sn	-23.13	40.0	ug/L
Sr	-5.83	10.0	ug/L
Ti	0.00	25.0	ug/L
V	0.41	5.0	ug/L
Y	-6.07 *	5.0	ug/L
Znlow	-1.28	40.0	ug/L
Znhigh	-2.80	20000.0	ug/L

MS 3/29/90

Some elements have blank values greater than detection limit.

These elements are Co Y

JVM
5 Apr 90

BLANK REPORT

Blank name DIGESTION 39 Operator

Date analyzed 03/27/90 File name RUN761B

Element	Blank Value	Detection limit	Units
Ag	-1.85	6.0	ug/L
Alhigh	-44.70	20000.0	ug/L
Allow	16.63	80.0	ug/L
As	51.01 *	50.0	ug/L
B	6.32	80.0	ug/L
Ba	2.10	6.0	ug/L
Be	0.07	1.0	ug/L
Cahigh	439.90	20000.0	ug/L
Calow	470.20	500.0	ug/L
Cd	-2.21	10.0	ug/L
Co	-8.82 *	6.0	ug/L
Cr	-2.21	8.0	ug/L
Cu	2.10	6.0	ug/L
Mghigh	54.90	20000.0	ug/L
Mglow	95.50	100.0	ug/L
Felow	40.86	80.0	ug/L
Fehigh	-103.80	20000.0	ug/L
K	1737.40	5000.0	ug/L
Li	-9.53	10.0	ug/L
Mn	0.71	5.0	ug/L
Mo	-8.62	15.0	ug/L
Na	200.90	1000.0	ug/L
Ni	4.31	25.0	ug/L
Pb	14.28	70.0	ug/L
Sn	-14.77	40.0	ug/L
Sr	-5.64	10.0	ug/L
Ti	4.12	25.0	ug/L
V	0.50	5.0	ug/L
Y	-7.58 *	5.0	ug/L
Znlow	39.43	40.0	ug/L
Znhigh	-195.50	20000.0	ug/L

MS
3/29/90

Some elements have blank values greater than detection limit.

These elements are As Co Y

Jun 5 Apr

BLANK REPORT

Blank name FIFTH INSTRUMENT Operator

Date analyzed 03/27/90 File name RUN761B

Element	Blank Value	Detection limit	Units
Ag	-0.57	6.0	ug/L
Alhigh	48.00	20000.0	ug/L
Allow	47.08	80.0	ug/L
As	21.82	50.0	ug/L
B	7.70	80.0	ug/L
Ba	0.19	6.0	ug/L
Be	0.19	1.0	ug/L
Cahigh	50.10	20000.0	ug/L
Calow	45.10	500.0	ug/L
Cd	-0.93	10.0	ug/L
Co	-9.02 *	6.0	ug/L
Cr	-6.17	8.0	ug/L
Cu	2.01	6.0	ug/L
Mghigh	-33.30	20000.0	ug/L
Mglow	6.60	100.0	ug/L
Felow	3.68	80.0	ug/L
Fehigh	18.30	20000.0	ug/L
K	1892.80	5000.0	ug/L
Li	-3.94	10.0	ug/L
Mn	0.23	5.0	ug/L
Mo	-5.14	15.0	ug/L
Na	-20.60	1000.0	ug/L
Ni	3.02	25.0	ug/L
Pb	5.88	70.0	ug/L
Sn	-25.68	40.0	ug/L
Sr	-6.84	10.0	ug/L
Ti	0.69	25.0	ug/L
V	1.88	5.0	ug/L
Y	-7.27 *	5.0	ug/L
Znlow	-0.73	40.0	ug/L
Znhigh	111.20	20000.0	ug/L

MS 3/29/90

Some elements have blank values greater than detection limit.

These elements are Co Y

JVM
5 Apr 90

BLANK REPORT

Blank name DIGESTION 15 Operator

Date analyzed 03/27/90 File name RUN761B

Element	Blank Value	Detection limit	Units
Ag	-2.15	6.0	ug/L
Alhigh	-19.90	20000.0	ug/L
Allow	37.06	80.0	ug/L
As	23.87	50.0	ug/L
B	4.24	80.0	ug/L
Ba	1.94	6.0	ug/L
Be	0.07	1.0	ug/L
Cahigh	355.90	20000.0	ug/L
Calow	380.50	500.0	ug/L
Cd	0.37	10.0	ug/L
Co	-8.15 *	6.0	ug/L
Cr	-2.42	8.0	ug/L
Cu	3.79	6.0	ug/L
Mghigh	52.20	20000.0	ug/L
Mglow	92.80	100.0	ug/L
Felow	89.34 *	80.0	ug/L
Fehigh	-12.20	20000.0	ug/L
K	1389.90	5000.0	ug/L
Li	-8.22	10.0	ug/L
Mn	0.82	5.0	ug/L
Mo	-5.93	15.0	ug/L
Na	-8.20	1000.0	ug/L
Ni	9.27	25.0	ug/L
Pb	24.83	70.0	ug/L
Sn	-23.18	40.0	ug/L
Sr	-6.27	10.0	ug/L
Ti	4.75	25.0	ug/L
V	1.10	5.0	ug/L
Y	-7.31 *	5.0	ug/L
Znlow	26.57	40.0	ug/L
Znhigh	-212.40	20000.0	ug/L

Some elements have blank values greater than detection limit.

These elements are Co Y Fe

NM
5 Apr 90

BLANK REPORT

Blank name SIXTH INSTRUMENT Operator

Date analyzed 03/27/90 File name RUN761B

Element	Blank Value	Detection limit	Units
Ag	-1.16	6.0	ug/L
Alhigh	1.40	20000.0	ug/L
Allow	10.18	80.0	ug/L
As	35.31	50.0	ug/L
B	1.03	80.0	ug/L
Ba	0.31	6.0	ug/L
Be	0.11	1.0	ug/L
Cahigh	4.90	20000.0	ug/L
Calow	3.40	500.0	ug/L
• Cd	-0.46	10.0	ug/L
Co	-8.69 *	6.0	ug/L
Cr	-2.53	8.0	ug/L
Cu	0.36	6.0	ug/L
Mghigh	-31.60	20000.0	ug/L
Mglow	1.10	100.0	ug/L
Felow	2.23	80.0	ug/L
Fehigh	-12.50	20000.0	ug/L
K	993.10	5000.0	ug/L
Li	-4.85	10.0	ug/L
Mn	0.00	5.0	ug/L
Mo	-6.26	15.0	ug/L
Na	-83.00	1000.0	ug/L
Ni	2.47	25.0	ug/L
Pb	4.77	70.0	ug/L
Sn	-24.89	40.0	ug/L
Sr	-5.72	10.0	ug/L
Ti	0.35	25.0	ug/L
V	0.41	5.0	ug/L
Y	-6.18 *	5.0	ug/L
Znlow	-1.60	40.0	ug/L
Znhigh	38.70	20000.0	ug/L

Some elements have blank values greater than detection limit.

These elements are Co, Y

OVR
5 Apr 90

QUALITY CONTROL SAMPLE REPORT

QC ID AQC FIRST Operator

Date analyzed 03/27/90 File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Allow	4947.4	5000.0	1.1%	ug/L
As	4998.8	5000.0	0.0%	ug/L
B	4811.5	5000.0	3.8%	ug/L
Ba	4975.2	5000.0	0.5%	ug/L
Be	5111.4	5000.0	2.2%	ug/L
Calow	5005.2	5000.0	0.1%	ug/L
Cd	5044.6	5000.0	0.9%	ug/L
Co	5037.8	5000.0	0.8%	ug/L
Cr	4946.9	5000.0	1.1%	ug/L
Cu	5052.2	5000.0	1.0%	ug/L
Mglow	5087.1	5000.0	1.7%	ug/L
Felow	5032.5	5000.0	0.7%	ug/L
Li	5101.5	5000.0	2.0%	ug/L
Mn	5115.2	5000.0	2.3%	ug/L
Mo	5014.1	5000.0	0.3%	ug/L
Ni	5100.6	5000.0	2.0%	ug/L
Pb	5000.6	5000.0	0.0%	ug/L
Sn	4932.4	5000.0	1.4%	ug/L
Sr	5190.4	5000.0	3.8%	ug/L
Ti	4892.9	5000.0	2.1%	ug/L
V	4874.4	5000.0	2.5%	ug/L
Y	5088.9	5000.0	1.8%	ug/L
Znlow	5001.3	5000.0	0.0%	ug/L

All elements within 5 % of the true value.

MS 3/29/90

NM
7 Apr 90

QUALITY CONTROL SAMPLE REPORT

QC ID AQC SECOND Operator

Date analyzed 03/27/90 File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Allow	4973.2	5000.0	0.5%	ug/L
As	5166.7	5000.0	3.3%	ug/L
B	4858.4	5000.0	2.8%	ug/L
Ba	4975.3	5000.0	0.5%	ug/L
Be	5174.6	5000.0	3.5%	ug/L
Calow	5009.5	5000.0	0.2%	ug/L
Cd	5076.1	5000.0	1.5%	ug/L
Co	5073.2	5000.0	1.5%	ug/L
Cr	5042.1	5000.0	0.8%	ug/L
Cu	5054.5	5000.0	1.1%	ug/L
Mglow	5068.9	5000.0	1.4%	ug/L
Felow	5119.6	5000.0	2.4%	ug/L
Li	5112.8	5000.0	2.3%	ug/L
Mn	5141.4	5000.0	2.8%	ug/L
Mo	5139.1	5000.0	2.8%	ug/L
Ni	5176.6	5000.0	3.5%	ug/L
Pb	5125.7	5000.0	2.5%	ug/L
Sn	4989.4	5000.0	0.2%	ug/L
Sr	5198.4	5000.0	4.0%	ug/L
Ti	5024.6	5000.0	0.5%	ug/L
V	4974.2	5000.0	0.5%	ug/L
Y	5113.3	5000.0	2.3%	ug/L
Znlow	5035.7	5000.0	0.7%	ug/L

All elements within 5 % of the true value.

MS 3/29/90

1vm
5 Apr 90

QUALITY CONTROL SAMPLE REPORT

QC ID AQC THIRD Operator

Date analyzed 03/27/90 File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Allow	5006.0	5000.0	0.1%	ug/L
As	5150.8	5000.0	3.0%	ug/L
B	4886.8	5000.0	2.3%	ug/L
Ba	5017.8	5000.0	0.4%	ug/L
Be	5193.0	5000.0	3.9%	ug/L
Calow	5039.0	5000.0	0.8%	ug/L
Cd	5104.9	5000.0	2.1%	ug/L
Co	5102.5	5000.0	2.1%	ug/L
Cr	5021.4	5000.0	0.4%	ug/L
Cu	5063.9	5000.0	1.3%	ug/L
Mglow	5078.3	5000.0	1.6%	ug/L
Felow	5123.9	5000.0	2.5%	ug/L
Li	5145.6	5000.0	2.9%	ug/L
Mn	5182.5	5000.0	3.7%	ug/L
Mo	5111.2	5000.0	2.2%	ug/L
Ni	5167.6	5000.0	3.4%	ug/L
Pb	5127.0	5000.0	2.5%	ug/L
Sn	4978.5	5000.0	0.4%	ug/L
Sr	5238.7	5000.0	4.8%	ug/L
Ti	4989.6	5000.0	0.2%	ug/L
V	4946.2	5000.0	1.1%	ug/L
Y	5138.6	5000.0	2.8%	ug/L
Znlow	5071.8	5000.0	1.4%	ug/L

All elements within 5 % of the true value.

MS 3/29/90

JVM
5 Apr 90

QUALITY CONTROL SAMPLE REPORT

QC ID AQC FOURTH Operator

Date analyzed 03/27/90 File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Allow	4991.9	5000.0	0.2%	ug/L
As	5153.3	5000.0	3.1%	ug/L
B	4855.0	5000.0	2.9%	ug/L
Ba	4996.7	5000.0	0.1%	ug/L
Be	5186.4	5000.0	3.7%	ug/L
Calow	5010.7	5000.0	0.2%	ug/L
Cd	5095.2	5000.0	1.9%	ug/L
Co	5099.1	5000.0	2.0%	ug/L
Cr	5036.5	5000.0	0.7%	ug/L
Cu	5022.1	5000.0	0.4%	ug/L
Mglow	5049.3	5000.0	1.0%	ug/L
Felow	5117.8	5000.0	2.4%	ug/L
Li	5123.0	5000.0	2.5%	ug/L
Mn	5173.3	5000.0	3.5%	ug/L
Mo	5104.1	5000.0	2.1%	ug/L
Ni	5146.5	5000.0	2.9%	ug/L
Pb	5192.7	5000.0	3.9%	ug/L
Sn	4938.1	5000.0	1.2%	ug/L
Sr	5211.1	5000.0	4.2%	ug/L
Ti	4965.2	5000.0	0.7%	ug/L
V	4929.7	5000.0	1.4%	ug/L
Y	5114.5	5000.0	2.3%	ug/L
Znlow	5057.7	5000.0	1.2%	ug/L

All elements within 5 % of the true value.

MS 3/29/90

JVM
5 Apr 90

QUALITY CONTROL SAMPLE REPORT

QC ID AQC FIFTH Operator

Date analyzed 03/27/90 File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Allow	4941.8	5000.0	1.2%	ug/L
As	5031.0	5000.0	0.6%	ug/L
B	4793.7	5000.0	4.1%	ug/L
Ba	4963.0	5000.0	0.7%	ug/L
Be	5144.0	5000.0	2.9%	ug/L
Calow	4967.3	5000.0	0.7%	ug/L
Cd	5053.3	5000.0	1.1%	ug/L
Co	5040.6	5000.0	0.8%	ug/L
Cr	4952.8	5000.0	0.9%	ug/L
Cu	4969.8	5000.0	0.6%	ug/L
Mglow	4991.1	5000.0	0.2%	ug/L
Felow	5067.0	5000.0	1.3%	ug/L
Li	5082.6	5000.0	1.7%	ug/L
Mn	5118.1	5000.0	2.4%	ug/L
Mo	5044.4	5000.0	0.9%	ug/L
Ni	5078.7	5000.0	1.6%	ug/L
Pb	5075.5	5000.0	1.5%	ug/L
Sn	4866.4	5000.0	2.7%	ug/L
Sr	5174.4	5000.0	3.5%	ug/L
Ti	4893.8	5000.0	2.1%	ug/L
V	4858.6	5000.0	2.8%	ug/L
Y	5071.1	5000.0	1.4%	ug/L
Znlow	4998.5	5000.0	0.0%	ug/L

All elements within 5 % of the true value.

MS 3/29/90

JVM
5 Apr 90

QUALITY CONTROL SAMPLE REPORT

QC ID AQC SIXTH Operator

Date analyzed 03/27/90 File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Allow	4979.9	5000.0	0.4%	ug/L
As	5103.9	5000.0	2.1%	ug/L
B	4857.5	5000.0	2.9%	ug/L
Ba	4990.8	5000.0	0.2%	ug/L
Be	5180.4	5000.0	3.6%	ug/L
Calow	4985.1	5000.0	0.3%	ug/L
Cd	5090.3	5000.0	1.8%	ug/L
Co	5081.6	5000.0	1.6%	ug/L
Cr	5024.9	5000.0	0.5%	ug/L
Cu	4996.9	5000.0	0.1%	ug/L
Mglow	5024.5	5000.0	0.5%	ug/L
Felow	5111.6	5000.0	2.2%	ug/L
Li	5099.8	5000.0	2.0%	ug/L
Mn	5148.7	5000.0	3.0%	ug/L
Mo	5108.0	5000.0	2.2%	ug/L
Ni	5138.8	5000.0	2.8%	ug/L
Pb	5154.7	5000.0	3.1%	ug/L
Sn	4935.7	5000.0	1.3%	ug/L
Sr	5203.7	5000.0	4.1%	ug/L
Ti	4955.3	5000.0	0.9%	ug/L
V	4907.5	5000.0	1.9%	ug/L
Y	5107.0	5000.0	2.1%	ug/L
Znlow	5038.9	5000.0	0.8%	ug/L

All elements within 5 % of the true value.

MS 3/29/90

JVM
5 Apr 90

QUALITY CONTROL SAMPLE REPORT

QC ID AG FIRST Operator

Date analyzed 03/27/90 File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Ag	49.5	50.0	1.0%	ug/L

Silver audit within 10 % limit.

MS 3/29/90

JVM
5 Apr 90

QUALITY CONTROL SAMPLE REPORT

QC ID AG THIRD Operator

Date analyzed 03/27/90 File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Ag	49.5	50.0	1.0%	ug/L

Silver audit within 10 % limit.

MS 3/29/90

JVM
5 Apr 90

QUALITY CONTROL SAMPLE REPORT

QC ID AG FOURTH Operator

Date analyzed 03/27/90 File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Ag	49.3	50.0	1.4%	ug/L

Silver audit within 10 % limit.

AM 5 3/29/90

JWM
5 Apr 90

QUALITY CONTROL SAMPLE REPORT

QC ID AG FIFTH Operator

Date analyzed 03/27/90 File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Ag	49.6	50.0	0.8%	ug/L

Silver audit within 10 % limit.

MS 3/29/90

JVM
5 Apr 90

QUALITY CONTROL SAMPLE REPORT

QC ID AG SIXTH

Operator

Date analyzed 03/27/90

File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Ag	49.7	50.0	0.6%	ug/L

Silver audit within 10 % limit.

MS 3/29/90

JVM
5 Apr 90

QUALITY CONTROL SAMPLE REPORT

QC ID HIGH FIRST Operator

Date analyzed 03/27/90 File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Alhigh	98026.0	100000.0	2.0%	ug/L
Cahigh	98850.4	100000.0	1.1%	ug/L
Mghigh	95052.7	100000.0	4.9%	ug/L
Fehigh	97575.0	100000.0	2.4%	ug/L
K	98845.7	100000.0	1.2%	ug/L
Na	103616.4	100000.0	3.6%	ug/L
Znhigh	97688.6	100000.0	2.3%	ug/L

All elements within 10 % of true value.

MS 3/29/90

JVM
5 Apr 90

QUALITY CONTROL SAMPLE REPORT

QC ID HIGH THIRD Operator

Date analyzed 03/27/90 File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Alhigh	98685.9	100000.0	1.3%	ug/L
Cahigh	99964.1	100000.0	0.0%	ug/L
Mghigh	94966.9	100000.0	5.0%	ug/L
Fehigh	98641.2	100000.0	1.4%	ug/L
K	99865.1	100000.0	0.1%	ug/L
Na	100678.3	100000.0	0.7%	ug/L
Znhigh	98570.0	100000.0	1.4%	ug/L

All elements within 10 % of true value.

MS 3/29/90

JVM
3/29/90

QUALITY CONTROL SAMPLE REPORT

QC ID HIGH FOURTH Operator

Date analyzed 03/27/90 File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Alhigh	104157.9	100000.0	4.2%	ug/L
Cahigh	105323.3	100000.0	5.3%	ug/L
Mghigh	99484.7	100000.0	0.5%	ug/L
Fehigh	103897.4	100000.0	3.9%	ug/L
K	106161.0	100000.0	6.2%	ug/L
Na	105032.0	100000.0	5.0%	ug/L
Znhigh	104013.6	100000.0	4.0%	ug/L

All elements within 10 % of true value.

MS 3/29/90

JWM
5 Apr 90

QUALITY CONTROL SAMPLE REPORT

QC ID HIGH FIFTH | Operator

Date analyzed 03/27/90 | File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Alhigh	103088.7	100000.0	3.1%	ug/L
Cahigh	104685.9	100000.0	4.7%	ug/L
Mghigh	98998.7	100000.0	1.0%	ug/L
Fehigh	103189.1	100000.0	3.2%	ug/L
K	105272.8	100000.0	5.3%	ug/L
Na	104916.5	100000.0	4.9%	ug/L
Znhigh	103038.2	100000.0	3.0%	ug/L

All elements within 10 % of true value.

MS 3/29/90

JVM
5 Apr 90

QUALITY CONTROL SAMPLE REPORT

QC ID HIGH SIXTH Operator

Date analyzed 03/27/90 File name RUN761B

Element	Found Value	True Value	Percent Deviation	Units
Alhigh	99013.2	100000.0	1.0%	ug/L
Cahigh	100704.3	100000.0	0.7%	ug/L
Mghigh	95534.8	100000.0	4.5%	ug/L
Fehigh	99538.5	100000.0	0.5%	ug/L
K	101993.7	100000.0	2.0%	ug/L
Na	100906.1	100000.0	0.9%	ug/L
Znhigh	99114.4	100000.0	0.9%	ug/L

All elements within 10 % of true value.

MS 3/29/90

MS 3/29/90

JVM 5 Apr 90

DUPLICATE

Sample SF7035 FD10S38 Operator

Date Analyzed 03/27/90 Correction 1.22000 File RUN761B

Element	Units	Sample	Duplicate	Difference	Detect Limit	RPD
Ag	ug/L	0	0	0	6	0%
Alhigh	ug/L	73	13	-60	20000	0%
Allow	ug/L	39	-27	-66	80	0%
As	ug/L	6	10	4	50	48%
B	ug/L	285	277	-8	80	-3%
Ba	ug/L	85	82	-2	6	-3%
Be	ug/L	1	0	-1	1	0%
Cahigh	ug/L	52121	52032	-88	20000	0%
Calow	ug/L	54732	54612	-120	500	0%
Cd	ug/L	0	0	0	10	0%
Co	ug/L	-6	-6	0	6	0%
Cr	ug/L	0	-2	-1	8	132%
Cu	ug/L	8	9	1	6	10%
Mghigh	ug/L	29610	29543	-66	20000	0%
Mglow	ug/L	29931	29864	-67	100	0%
Felow	ug/L	1230	1194	-36	80	-3%
Fehigh	ug/L	1441	1421	-20	20000	-2%
K	ug/L	2496	2483	-14	5000	-1%
Li	ug/L	1	1	0	10	0%
Mn	ug/L	27	26	-2	5	-6%
Mo	ug/L	3	0	-3	15	-152%
Na	ug/L	27095	26157	-938	1000	-3%
Ni	ug/L	7	3	-4	25	-82%
Pb	ug/L	27	19	-8	70	-36%
Sn	ug/L	-31	-31	0	40	1%
Sr	ug/L	869	871	2	10	0%
Ti	ug/L	7	6	-1	25	-11%
V	ug/L	3	2	-2	5	-91%
Y	ug/L	-4	-7	-3	5	69%
Znlow	ug/L	69	33	-36	40	-71%
Znhigh	ug/L	-13	-138	-125	20000	0%

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

MS 3/29/90

JVM 5 Apr 90

DUPLICATE

Sample ED07036 EB01S10 Operator MS

Date Analyzed 03/27/90 Correction 1.22000 File RUN761B

Element	Units	Sample	Duplicate	Difference	Detect Limit	RPD
Ag	ug/L	0	0	0	6	0%
Alhigh	ug/L	3456	3409	-46	20000	-2%
Allow	ug/L	3430	3417	-13	80	0%
As	ug/L	15	38	23	50	88%
B	ug/L	1655	1647	-8	80	0%
Ba	ug/L	25	24	-1	6	-2%
Be	ug/L	1	0	-1	1	0%
Cahigh	ug/L	43316	43517	202	20000	0%
Calow	ug/L	45134	45025	-109	500	0%
Cd	ug/L	0	-1	-1	10	0%
Co	ug/L	-8	-7	1	6	-11%
Cr	ug/L	10	7	-3	8	-33%
Cu	ug/L	349	345	-4	6	-1%
Mghigh	ug/L	8871	8849	-23	20000	0%
Mglow	ug/L	8980	8957	-23	100	0%
Felow	ug/L	1831	1801	-30	80	-2%
Fehigh	ug/L	1808	1792	-15	20000	-1%
K	ug/L	5368	5020	-347	5000	-7%
Li	ug/L	-1	-2	-1	10	33%
Mn	ug/L	136	136	0	5	0%
Mo	ug/L	-4	-6	-2	15	36%
Na	ug/L	190867	187216	-3651	1000	-2%
Ni	ug/L	1284	1283	-1	25	0%
Pb	ug/L	34	23	-11	70	-38%
Sn	ug/L	-25	-36	-11	40	37%
Sr	ug/L	119	118	-1	10	-1%
Ti	ug/L	8	7	0	25	-4%
V	ug/L	3	2	-1	5	-31%
Y	ug/L	-4	-7	-3	5	49%
Znlow	ug/L	398	418	20	40	5%
Znhigh	ug/L	84	111	27	20000	0%

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

MS 3/29/90

jm 5 Apr 90

DUPLICATE

Sample CD07042 CD04503 Operator MS

Date Analyzed 03/27/90 Correction 1.22000 File RUN761B

Element	Units	Sample	Duplicate	Difference	Detect Limit	RPD
Ag	ug/L	-1	-1	0	6	-14%
Alhigh	ug/L	563	553	-10	20000	-1%
Allow	ug/L	560	571	11	80	2%
As	ug/L	8	3	-5	50	-83%
B	ug/L	348	354	7	80	2%
Ba	ug/L	60	61	1	6	1%
Be	ug/L	0	0	0	1	0%
Cahigh	ug/L	41968	42388	420	20000	1%
Calow	ug/L	43687	44076	389	500	1%
Cd	ug/L	-1	2	3	10	0%
Co	ug/L	-6	-7	0	6	4%
Cr	ug/L	5	3	-2	8	-52%
Cu	ug/L	12	13	1	6	9%
Mghigh	ug/L	12298	12395	97	20000	1%
Mglow	ug/L	12436	12534	98	100	1%
Felow	ug/L	1481	1439	-42	80	-3%
Fehigh	ug/L	1539	1466	-73	20000	-4%
K	ug/L	4106	4430	325	5000	8%
Li	ug/L	1	2	1	10	33%
Mn	ug/L	226	228	2	5	1%
Mo	ug/L	1	3	3	15	141%
Na	ug/L	15347	15531	184	1000	1%
Ni	ug/L	8	5	-3	25	-43%
Pb	ug/L	2	-8	-10	70	349%
Sn	ug/L	-28	-20	8	40	-34%
Sr	ug/L	214	216	3	10	1%
Ti	ug/L	16	15	-1	25	-6%
V	ug/L	4	4	0	5	1%
Y	ug/L	-7	-6	1	5	-12%
Znlow	ug/L	68	52	-17	40	-28%
Znhigh	ug/L	-138	-179	-40	20000	0%

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

JVM
5 Apr 90

SPIKE COMPARISON

Sample CD07042 CD04S03 Analyzed by MS

Date Analyzed 03/27/90 Spike Correction 1.5200 File RUN761B

Element	Units	Sample	Spike	Spike Added	Recovery	
Ag	ug/L	-1	47	50	95%	
Allow	ug/L	560	1243	800	85%	
B	ug/L	348	1138	800	99%	
Ba	ug/L	60	256	200	98%	
Be	ug/L	0	10	10	100%	
Cahigh	ug/L	41968	92000	50000	100%	
Cd	ug/L	-1	23	25	97%	
Co	ug/L	-6	90	100	96%	
Cr	ug/L	5	107	100	102%	
Cu	ug/L	12	61	50	99%	
Malow	ug/L	12436	36000	25000	94%	
Felow	ug/L	1481	2150	800	84%	*
K	ug/L	4106	28000	25000	96%	
Li	ug/L	1	56	54	101%	
Mn	ug/L	226	330	100	104%	#
Mo	ug/L	1	113	100	112%	
Na	ug/L	15347	65000	50000	99%	
Ni	ug/L	8	157	150	99%	
Pb	ug/L	2	795	800	99%	
Sn	ug/L	-28	460	400	122%	*
Sr	ug/L	214	1239	1000	103%	
Ti	ug/L	16	113	100	97%	
V	ug/L	4	48	50	88%	
Y	ug/L	-7	42	50	97%	
Znlow	ug/L	68	424	400	89%	

Some spike recoveries are not within the 15% limit. The affected elements are Mo Sn

MS 3/29/90

Sample value is greater than twice the spike amount added;

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

JVM
5 Apr 90

SPIKE COMPARISON

Sample SF7035 FD10S38 Analyzed by

Date Analyzed 03/27/90 Spike Correction 1.5200 File RUN761B

Element	Units	Sample	Spike	Spike Added	Recovery	
Ag	ug/L	0	47	50	95%	
Allow	ug/L	39	748	800	89%	
B	ug/L	285	1075	800	99%	
Ba	ug/L	85	278	200	97%	
Be	ug/L	1	10	10	92%	
Cahigh	ug/L	52121	102000	50000	100%	
Cd	ug/L	0	23	25	91%	
Co	ug/L	-6	87	100	93%	
Cr	ug/L	0	107	100	107%	
Cu	ug/L	8	56	50	96%	
Mglow	ug/L	29931	54000	25000	96%	
Felow	ug/L	1230	1993	800	95%	
K	ug/L	2496	27000	25000	98%	
Li	ug/L	1	54	54	98%	
Mn	ug/L	27	127	100	100%	
Mo	ug/L	3	120	100	117%	*
Na	ug/L	27095	76000	50000	98%	
Ni	ug/L	7	156	150	100%	
Pb	ug/L	27	812	800	98%	
Sn	ug/L	-31	460	400	123%	*
Sr	ug/L	869	1897	1000	103%	
Ti	ug/L	7	107	100	100%	
V	ug/L	3	48	50	89%	
Y	ug/L	-4	41	50	89%	
Znlow	ug/L	69	442	400	93%	

Some spike recoveries are not within the 15% limit. The affected elements are Mo Sn

MS 3/29/90

Jm
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SPIKE COMPARISON

Sample ED07036 EB01S10 Analyzed by MS

Date Analyzed 03/27/90 Spike Correction 1.5200 File RUN761B

Element	Units	Sample	Spike	Spike Added	Recovery
Ag	ug/L	0	47	50	94%
Allow	ug/L	3430	4161	800	91% #
B	ug/L	1655	2434	800	97% #
Ba	ug/L	25	216	200	96%
Be	ug/L	1	10	10	95%
Cahigh	ug/L	43316	93000	50000	99%
Cd	ug/L	0	23	25	91%
Co	ug/L	-8	85	100	93%
Cr	ug/L	10	110	100	100%
Cu	ug/L	349	394	50	91% #
Malow	ug/L	8980	33000	25000	96%
Felow	ug/L	1831	2599	800	96% #
K	ug/L	5368	30000	25000	99%
Li	ug/L	-1	54	54	102%
Mn	ug/L	136	236	100	100%
Mo	ug/L	-4	116	100	120% *
Na	ug/L	190867	239000	50000	96% #
Ni	ug/L	1284	1424	150	94% #
Pb	ug/L	34	796	800	95%
Sn	ug/L	-25	467	400	123% *
Sr	ug/L	119	1126	1000	101%
Ti	ug/L	8	107	100	99%
V	ug/L	3	50	50	94%
Y	ug/L	-4	41	50	90%
Znlow	ug/L	398	734	400	84% *

Some spike recoveries are not within the 15% limit. The affected elements are Mo Sn Zn

MS 3/29/90

Sample value is greater than twice the spike amount added: the spike is invalid as an audit. There are 6 of these.

JM
5 Apr 90

DUPLICATE AND SPIKE IN LIMS FORMAT

Sample SF7035 FD10538 Analyzed by

Date Analyzed 03/27/90 Sample factor 1.22000 File RUN761B

Duplicate factor 1.22000 Spike factor 1.5200

If the correction factor is zero and the values are unchanging, the audit is not to be used. Another sample was used for the audit.

Element	Duplicate			Spike	
Ag	0	/D0	/R-13	47	/S95
Alhigh	0	/D-73	/R-200	1000	/S93
Allow	-27	/D-66	/R0	748	/S89
As	10	/D4	/R49	23	/S1712
B	277	/D-8	/R-3	1075	/S99
•Ba	83	/D-2	/R-3	278	/S97
Be	0	/D-1	/R-255	10	/S92
Cahigh	52000	/D-121	/R0	102000	/S100
Calow	54600	/D-132	/R0	96000	/S83
Cd	0	/D0	/R-200	23	/S91
Co	-6	/D0	/R0	87	/S93
Cr	-2	/D-1	/R125	107	/S107
Cu	9	/D1	/R10	56	/S96
Mghigh	29500	/D-110	/R0	53000	/S94
Mglow	29900	/D-31	/R0	54000	/S96
Felow	1194	/D-36	/R-3	1993	/S95
Fehigh	1400	/D-41	/R-3	2000	/S31
K	2500	/D4	/R0	27000	/S98
Li	1	/D0	/R-1	54	/S98
Mn	26	/D-2	/R-6	127	/S100
Mo	0	/D-3	/R-158	120	/S117
Na	26200	/D-895	/R-3	76000	/S98
Ni	3	/D-4	/R-88	156	/S100
Pb	19	/D-8	/R-36	812	/S98
Sn	-31	/D0	/R1	460	/S123
Sr	871	/D2	/R0	1897	/S103
Ti	6	/D-1	/R-10	107	/S100
V	2	/D-2	/R-75	48	/S89
Y	-7	/D-3	/R64	41	/S89
Znlow	33	/D-36	/R-71	442	/S93
Znhigh	-100	/D-87	/R152	0	/S1

DVM
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DUPLICATE AND SPIKE IN LIMS FORMAT

Sample ED07036 EB01S10 Analyzed by MS

Date Analyzed 03/27/90 Sample factor 1.22000 File RUN761B

Duplicate factor 1.22000 Spike factor 1.5200

If the correction factor is zero and the values are unchanging, the audit is not to be used. Another sample was used for the audit.

Element	Duplicate			Spike	
Ag	0	/D0	/R103	47	/S94
Alhigh	3400	/D-56	/R-2	4000	/S54
Allow	3417	/D-13	/R0	4161	/S91
As	38	/D23	/R87	49	/S3410
B	1647	/D-8	/R0	2434	/S97
Ba	24	/D-1	/R-2	216	/S96
Be	0	/D-1	/R-294	10	/S95
Cahigh	43500	/D184	/R0	93000	/S99
Calow	45000	/D-134	/R0	94000	/S98
Cd	-1	/D-1	/R500	23	/S91
Co	-7	/D1	/R-11	85	/S93
Cr	7	/D-3	/R-34	110	/S100
Cu	345	/D-4	/R-1	394	/S91
Mghigh	8800	/D-71	/R-1	32000	/S93
Mglow	9000	/D20	/R0	33000	/S96
Felow	1801	/D-30	/R-2	2599	/S96
Fehigh	1800	/D-8	/R0	3000	/S66
K	5000	/D-368	/R-7	30000	/S99
Li	-2	/D-1	/R41	54	/S102
Mn	136	/D0	/R0	236	/S100
Mo	-6	/D-2	/R38	116	/S120
Na	187200	/D-3667	/R-2	239000	/S96
Ni	1283	/D-1	/R0	1424	/S94
Pb	24	/D-11	/R-38	796	/S95
Sn	-36	/D-11	/R36	467	/S123
Sr	118	/D-1	/R-1	1126	/S101
Ti	7	/D0	/R-4	107	/S99
V	2	/D-1	/R-35	50	/S94
Y	-7	/D-3	/R52	41	/S90
Znlow	418	/D20	/R5	734	/S84
Znhigh	100	/D16	/R17	0	/S-8

NM
5 Apr 90

DUPLICATE AND SPIKE IN LIMS FORMAT

Sample CD07042 CD04S03 Analyzed by MS

Date Analyzed 03/27/90 Sample factor 1.22000 File RUN761B

Duplicate factor 1.22000 Spike factor 1.5200

If the correction factor is zero and the values are unchanging, the audit is not to be used. Another sample was used for the audit.

Element	Duplicate			Spike	
Ag	-1	/D0	/R-32	47	/S95
Alhigh	600	/D37	/R6	1000	/S44
Allow	571	/D11	/R2	1243	/S85
As	3	/D-5	/R-86	12	/S367
B	354	/D7	/R2	1138	/S99
Ba	61	/D1	/R1	256	/S98
Be	0	/D0	/R123	10	/S100
Cahigh	42400	/D432	/R1	92000	/S100
Calow	44100	/D413	/R1	94000	/S101
Cd	2	/D3	/R1657	23	/S97
Co	-7	/D0	/R5	90	/S96
Cr	3	/D-2	/R-56	107	/S102
Cu	13	/D1	/R9	61	/S99
Mghigh	12400	/D102	/R1	36000	/S95
Mglow	12500	/D64	/R1	36000	/S94
Felow	1439	/D-42	/R-3	2150	/S84
Fehigh	1500	/D-39	/R-3	2000	/S26
K	4400	/D294	/R7	28000	/S96
Li	2	/D1	/R41	56	/S101
Mn	228	/D2	/R1	330	/S104
Mo	3	/D3	/R145	113	/S112
Na	15500	/D153	/R1	65000	/S99
Ni	5	/D-3	/R-40	157	/S99
Pb	-8	/D-10	/R341	795	/S99
Sn	-20	/D8	/R-33	460	/S122
Sr	216	/D3	/R1	1239	/S103
Ti	15	/D-1	/R-6	113	/S97
V	4	/D0	/R0	48	/S88
Y	-6	/D1	/R-11	42	/S97
Znlow	52	/D-16	/R-28	424	/S89
Znhigh	-200	/D-62	/R37	0	/S14

SAMPLE REPORT

Sample UNDIGESTED FD10R08 Operator

Date analyzed 03/27/90 Correction 1.00000 File name RUN761B

Element	Concentration		Units
Silver	6.0	U	micrograms/liter
Aluminum	80.0	U	micrograms/liter
Boron	80.0	U	micrograms/liter
Barium	6.0	U	micrograms/liter
Beryllium	1.0	U	micrograms/liter
Calcium	500.	U	micrograms/liter
Cadmium	10.0	U	micrograms/liter
Cobalt	20.0	U	micrograms/liter
Chromium	8.0	U	micrograms/liter
Copper	21.9		micrograms/liter
Magnesium	100.	U	micrograms/liter
Iron	80.0	U	micrograms/liter
Potassium	5000.	U	micrograms/liter
Lithium	10.0	U	micrograms/liter
Manganese	5.0	U	micrograms/liter
Molybdenum	15.0	U	micrograms/liter
Sodium	1000.	U	micrograms/liter
Nickel	25.0	U	micrograms/liter
Lead	70.0	U	micrograms/liter
Tin	40.0	U	micrograms/liter
Strontium	10.0	U	micrograms/liter
Titianium	25.0	U	micrograms/liter
Vanadium	5.0	U	micrograms/liter
Zinc	40.0	U	micrograms/liter

MS 3/29/90

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
[redacted]
[redacted]

DATE: MAR 27 1990

SUBJECT: Review of Region 5 data for TREKKER CHEMICAL CO.

FROM: [redacted] BABU PARUCHURI
[redacted]
Region 5 [redacted]

To: Data User:

Attached are the results for:

[redacted]: SF 7035
[redacted]: 90FD10S38-41, D39 and 90FD02R08
[redacted]: ORGANICS - ABNs
Laboratory: 5SCRL - ESD - USEPA

Results Status:

(✓) DATA ACCEPTABLE FOR USE* Baby
( ) 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 [redacted], David A. Payne, the [redacted], at [redacted].

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

[redacted]
Data Management Coordinator
Region 5 Central Regional Laboratory
([redacted])

TRANSMITTED BY
MAR 27 1990
U.S. EPA CENTRAL REGIONAL LAB

RECEIVED BY/DATE:

Comments:

ATA SET	SITE	SDG/ACT.
SF 7035	TREKKER CHEMICAL CO	TFA302

SAMPLES	PARAMETER(S)
90FD10 538-541, D39 AND 90FD02 R08	ORGANICS - ABNs

SAMPLED	RECEIVED	DUE	LAB
3/8/90	3/9/90	3/30/90	SSCRL- USEPA

SHIPPED	DATA RECEIVED	CONTRACT

TEAM LEADER	SECTION CHIEF	DC COORD.	DATA COORD.

Comments By Reviewer:

THE DATA ARE ACCEPTABLE FOR USE.

DATA MANAGEMENT COORDINATOR

RECEIVED	TRANSMITTED	
✓ ( ) REVIEWED	( ) UNREVIEWED	TEAM LEADER/DATE Babu Parichuz 3/24/90
( ) REVIEWED	( ) UNREVIEWED	SECTION CHIEF/DATE
( ) REVIEWED	( ) UNREVIEWED	DC COORDINATOR/DATE

CLERICAL SUPPORT

RECEIVED	COMPLETED

REVIEWED BY CONTRACT COORDINATOR/DATE

RECEIVED	TRANSMITTED	DATA MANAGEMENT COORDINATOR
3/27/90	3/27/90	Suffen

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

METHODBLANK

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >NF084

Level: (low/med) LOW Date Received: 03/09/90

% Moisture: not dec.____ dec. ____ Date Extracted: 03/14/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/15/90

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.

METHODBLANK

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >NF084

Level: (low/med) LOW Date Received: 03/09/90

% Moisture: not dec.____ dec. ____ Date Extracted: 03/14/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/15/90

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	X
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	X
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	2.	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[X]

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FD02R08

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FD02R08

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >NF085

Level: (low/med) LOW Date Received: 03/09/90

% Moisture: not dec.____ dec. ____ Date Extracted: 03/14/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/15/90

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	X
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.
90FD02R08

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FD02R08

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >NF085

Level: (low/med) LOW Date Received: 03/09/90

% Moisture: not dec.____ dec. ____ Date Extracted: 03/14/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/15/90

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	3.	B
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[X]

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FD10S38

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FD10S38

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >NF086

Level: (low/med) LOW Date Received: 03/09/90

% Moisture: not dec.____ dec. ____ Date Extracted: 03/14/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/15/90

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	

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FD10S38

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FD10S38

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >NF086

Level: (low/med) LOW Date Received: 03/09/90

% Moisture: not dec.____ dec. ____ Date Extracted: 03/14/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/15/90

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	X
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	2.	B	
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[X]

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FD10S39

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FD10S39

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >NF087

Level: (low/med) LOW Date Received: 03/09/90

% Moisture: not dec.____ dec. ____ Date Extracted: 03/14/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/15/90

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.

90FD10S39

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FD10S39

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >NF087

Level: (low/med) LOW Date Received: 03/09/90

% Moisture: not dec.____ dec. ____ Date Extracted: 03/14/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/15/90

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	X
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	2.	B	
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[X]

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FD10D39

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FD10D39

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >NF088

Level: (low/med) LOW Date Received: 03/09/90

% Moisture: not dec.____ dec. ____ Date Extracted: 03/14/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/16/90

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	X
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	X
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.

90FD10D39

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FD10D39

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >NF088

Level: (low/med) LOW Date Received: 03/09/90

% Moisture: not dec.____ dec. ____ Date Extracted: 03/14/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/16/90

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	X
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	X
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	2.	B	
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[X]

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FD10S40

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FD10S40

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >NF089

Level: (low/med) LOW Date Received: 03/09/90

% Moisture: not dec.____ dec. ____ Date Extracted: 03/14/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/16/90

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.

90FD10S40

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FD10S40

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >NF089

Level: (low/med) LOW Date Received: 03/09/90

% Moisture: not dec.____ dec. ____ Date Extracted: 03/14/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/16/90

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	X
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	2.	B	
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[X]

U.S. EPA - REGION V
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

90FD10S41

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FD10S41

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >NF090

Level: (low/med) LOW Date Received: 03/09/90

% Moisture: not dec.____ dec. ____ Date Extracted: 03/14/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/16/90

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 X
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.

90FD10S41

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

Matrix: (soil/water) WATER Lab Sample ID: 90FD10S41

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >NF090

Level: (low/med) LOW Date Received: 03/09/90

% Moisture: not dec.____ dec. ____ Date Extracted: 03/14/90

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 3/16/90

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	2.	B
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[X]

ESAT CONTRACT TID NO: 05-13

TASK NO: 2516

ENVIRONMENTAL SAMPLE EXTRACT CUSTODY TRANSFER FORM

Sample extraction was completed on 03/15, 1990 for:

DATASET NO: SF 7035 SITE NAME: Trekker Chemical Co.

PARAMETER : ABN

MATRIX : Water SF DU/ACT NO: TFA 302 Y____ /C_____

SAMPLE NUMBERS: 90FD10S38, S39, S40, S41, D39, 90FD02R08 NUMBER OF SAMPLES: 6

ESAT APPROVALS:

Anthony Komsky 03/15/90 (ANALYST DATE)

[illegible] 3/16/90 (TEAM LEADER DATE)

(QC COORDINATOR DATE)

[illegible] 3/16/90 (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 03/15/90 (DELIVERED BY DATE)

E. S. Evangelista 3/16/90 (RECEIVED BY DATE)

EPA APPROVALS:

Babu Parnabhuz 3/24/90 (EPA TASK MONITOR DATE)

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

COMMENTS: Ratings: Tech. Quality: 3.5; Compliance w Schedule: 3.5 (Sample Prep only)

(SECTION CHIEF DATE)

[ ] Reviewed [ ] Unreviewed

(ESAT DPO DATE)

Sylvia Puffy 3/27/90, 3/27/90 (DATA COORD'R REC'D TRANSMTD)

A:{DS}FORMS{DS}EXTTRANS.FRM WS
DOC.NO.: ESAT-05-0167-FORM
REVISION: NEW FILE LOCATION NO: 5.6.

+2 copies

SEMIVOLATILE ORGANIC ANALYSIS

Subject: SF7035 TREKKER CHEMICAL COMPANY

To: Files
From: Babu Paruchuri
Date: 03/24/90

Six (6) low level water samples (90FD10S38 - S41, D39 and 90FD02R08) were analyzed for semivolatile organics (ABNs) by Region V laboratory using the test procedure 625NS. The laboratory produced data of acceptable quality.

The following comments apply to the quality control (QC) requirements as specified by the Central Regional Laboratory (CRL) test method:

- The site samples were extrated within seven days of sample receipt. The sample extracts were analyzed within 21 days of sample collection.

- Prior to the sample analysis, the GC/MS instrument was checked to determine if: 1) acceptable performance criteria (see Table 5, SOP) were achieved for DFTPP and 2) the tailing factor of PCP was <5.

- The surrogate spike recovery data were evaluated to determine the method accuracy for each sample. The surrogate spike recoveries were acceptable for all of the samples.

- The laboratory used 90FD10S38 for the collection of matrix precision and accuracy data. The precision data were acceptable for all of the parameters but not the spike recovery data. Only one of the 11 parameters was outside the QC acceptance criteria. This does not effect the quality of the data since the site was clean.

- The initial calibration data were acceptable. No problems were observed.

The following comments apply to the sample analysis results and overall quality of the data: 1) the laboratory method blank and the site samples contained a common lab contaminant, bis(2-ethylhexyl) phthalate and 2) the laboratory produced data of acceptable quality.

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

TFA302

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 3/8/90 LAB ARRIVAL DATE 3/9/90 DUE DATE 3/30/90

DU NUMBER TFA[redacted] DATA SET NUMBER 7035 STUDY Trekker Chemical Co PRIORITY N CONTRACTOR N

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
90FD10S38	RW1/MSD 5-082045-52	X	X		
39	RW2 5-082058-060	X	X		
40	RW3 5-082074-076	X	X		
41	RW4 5-082082-084	X	X		
D39	DUP 5-082066-68	X	X		
90FD02R08	BLANK 5-082090-92	X	X		
		SHIPMENT	(IS) / IS ~~NOT~~	COMPLETE	
90FD10S38	RW1/MSD 5-082037-039		X		
90FD10S39	RW2 5-082055		X		
90FD10D39	DUPLICATE 5-082063		X		
90FD10S40	RW3 5-082071		X		
90FD10S41	RW4 5-082079		X		
90FD02R08	BLANK 5-082087		X		

USEPA REGION V CRL
SF7035 TREKKER CHEMICAL CO 3/30/90

03/14/90 11:29:23
PAGE 01

WORKLIST : 6BBP0036
TEST : ABWSO

WL#	ID	REP	COMMENTS
1	LRB		
2	LF1		
3	LF2		
4	S0000788 01		90FD0538
5	S0000789 01		0539
6	S0000790 01		D39
7	S0000791 01		S40
8	S0000792 01		S41
9	S0000793 01		90FD02R08

3/26/90

U. S. EPA - REGION V
WATER SEMIVOLATILE SURROGATE RECOVERY

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	METHODBLAN	55	51	96	22	33	72		0
02	90FD02R08	64	60	105	26	39	82		0
03	90FD10S38	57	52	93	26	38	77		0
04	90FD10S39	65	60	97	28	40	80		0
05	90FD10D39	63	60	95	27	40	78		0
06	90FD10S40	60	58	101	28	41	80		0
07	90FD10S41	67	61	101	29	42	81		0
08	90FD10S38M	66	57	93	29	42	85		0
09	90FD10S38M	62	57	92	26	37	89		0
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		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: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

Matrix Spike - EPA Sample No.: 90FD10S38

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	#	QC LIMITS REC.
Phenol	73.00	0.00	28.00	38		12- 89
2-Chlorophenol	76.00	0.00	63.00	82		27-123
1,4-Dichlorobenzene	76.00	0.00	58.00	76		36- 97
N-Nitroso-di-n-prop.(1)	180.00	0.00	130.00	74		41-116
1,2,4-Trichlorobenzene	96.00	0.00	75.00	78		39- 98
4-Chloro-3-methylphenol	78.00	0.00	62.00	79		23- 97
Acenaphthene	87.00	0.00	73.00	83		46-118
4-Nitrophenol	93.00	0.00	26.00	28		10- 80
2,4-Dinitrotoluene	69.00	0.00	71.00	102	*	24- 96
Pentachlorophenol	99.00	0.00	67.00	67		9-103
Pyrene	64.00	0.00	71.00	110		26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
Phenol	73.00	25.00	34		11		42	12- 89
2-Chlorophenol	76.00	56.00	73		11		40	27-123
1,4-Dichlorobenzene	76.00	48.00	63		18		28	36- 97
N-Nitroso-di-n-prop.(1)	180.00	120.00	66		11		38	41-116
1,2,4-Trichlorobenzene	96.00	67.00	69		12		28	39- 98
4-Chloro-3-methylphenol	78.00	61.00	78		1		42	23- 97
Acenaphthene	87.00	64.00	73		12		31	46-118
4-Nitrophenol	93.00	27.00	29		3		50	10- 80
2,4-Dinitrotoluene	69.00	69.00	99	*	2		38	24- 96
Pentachlorophenol	99.00	70.00	71		5		50	9-103
Pyrene	64.00	69.00	107		2		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: 0 out of 11 outside limits
Spike Recovery: 2 out of 22 outside limits

COMMENTS: _____

U. S. EPA - REGION V
SEMIVOLATILE METHOD BLANK SUMMARY

Study Name: TREKKER CHEMICAL COMPANY SFUND

Lab Code: CHICAGOIL Case No.: SF7035 SAS No.: TRKCHMC SDG No.: TFA302

Lab File ID: >NF084 Lab Sample ID: METHODBLANK

Date Extracted 03/14/90 Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 3/15/90 Time Analyzed: 20:42

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: 96 1

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	90FD02R08	90FD02R08	>NF085	3/15/90
02	90FD10S38	90FD10S38	>NF086	3/15/90
03	90FD10S39	90FD10S39	>NF087	3/15/90
04	90FD10D39	90FD10D39	>NF088	3/16/90
05	90FD10S40	90FD10S40	>NF089	3/16/90
06	90FD10S41	90FD10S41	>NF090	3/16/90
07	90FD10S38MS	90FD10S38MS	>NF092	3/16/90
08	90FD10S38MD	90FD10S38MSD	>NF093	3/16/90
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COMMENTS:

FORM IV SV 1/87 Rev.

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Study Name: FULTZ LANDFILL TREKKER C Contract: SFUND

Lab Code: CHICAGOIL Case No.: SF7027 SAS No.: SF7035 SDG No.: TGBTFA

Lab File ID: >NF074 DFTPP Injection Date: 3/15/90

Instrument ID: 96 1 DFTPP Injection Time: 9:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.8
68	Less than 2.0% of mass 69	1.0(1.7)1
69	Mass 69 relative abundance	60.
70	Less than 2.0% of mass 69	.5(.8)1
127	40.0 - 60.0% of mass 198	44.6
197	Less than 1.0% of mass 198	0.9
198	Base Peak, 100% relative abundance	100.
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	19.7
365	Greater than 1.00% of mass 198	1.64
441	Present, but less than mass 443	9.5
442	Greater than 40.0% of mass 198	70.1
443	17.0 - 23.0% of mass 442	12.6(18.0)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	>NF075	3/15/90	10:13
02	TOXSTD50PPM	TOXSTD50PPM	>NF076	3/15/90	11:13
03	TOXSTD25PPM	TOXSTD25PPM	>NF077	3/15/90	12:13
04	METHODBLANK	METHODBLANK	>NF084	3/15/90	20:42
05	90FD02R08	90FD02R08	>NF085	3/15/90	21:42
06	90FD10S38	90FD10S38	>NF086	3/15/90	22:42
07	90FD10S39	90FD10S39	>NF087	3/15/90	23:42
08	90FD10D39	90FD10D39	>NF088	3/16/90	0:41
09	90FD10S40	90FD10S40	>NF089	3/16/90	1:41
10	90FD10S41	90FD10S41	>NF090	3/16/90	2:41
11	90FD10S38MS	90FD10S38MS	>NF092	3/16/90	4:41
12	90FD10S38MD	90FD10S38MSD	>NF093	3/16/90	5:40
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FORM V SV 1/87 Rev.

U. S. EPA - REGION V
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

ame:ROLL COATER T Rekker SFUND
SF 7035

s: CHICAGOIL Case No.: CD07004 SAS No.: ROLLCOA SDG No.: AFE104

ent ID: 96 1 Calibration Date(s):03/15/90 03/15/90

for SPCC(#) = 0.050 Max %RSD for CCC(*) = 35.0%

LE ID: RRF25 =>NF077 RRF50 =>NF076
=>NF075

OUND	RRF25	RRF50	RRF100			RRF	% RSD
phenol *	1.859	1.967	2.023	0.000	0.000	1.950	4.3*
Chloroethyl)ether	1.736	1.803	1.917	0.000	0.000	1.819	5.0
rophenol	1.194	1.256	1.340	0.000	0.000	1.263	5.8
chlorobenzene	1.322	1.311	1.422	0.000	0.000	1.352	4.5
chlorobenzene *	1.410	1.461	1.468	0.000	0.000	1.447	2.2*
_alcohol	.683	.724	.789	0.000	0.000	.732	7.3
chlorobenzene	1.308	1.344	1.390	0.000	0.000	1.347	3.0
ylphenol	1.017	1.055	1.142	0.000	0.000	1.072	6.0
chloroisopropyl)ether	.377	.395	.403	0.000	0.000	.392	3.5
ylphenol	1.031	1.048	1.062	0.000	0.000	1.047	1.5
oso-di-n-propylamine #	1.048	1.076	1.104	0.000	0.000	1.076	2.6#
loroethane	.403	.421	.425	0.000	0.000	.416	2.9
enzene	.584	.613	.659	0.000	0.000	.619	6.1
rone	2.617	2.768	2.625	0.000	0.000	2.670	3.2
ophenol *	.491	.541	.616	0.000	0.000	.549	11.4*
methylphenol	.772	.791	.819	0.000	0.000	.794	3.0
c_acid	.397	.538	.644	0.000	0.000	.526	23.5
Chloroethoxy)methane	1.621	1.718	1.781	0.000	0.000	1.706	4.7
chlorophenol *	.798	.822	.847	0.000	0.000	.822	3.0*
Trichlorobenzene	.874	.890	.916	0.000	0.000	.893	2.4
alene	2.994	3.133	2.644	0.000	0.000	2.923	8.6
roaniline	.480	.494	.473	0.000	0.000	.482	2.3
lorobutadiene *	.447	.461	.466	0.000	0.000	.458	2.1*
ro-3-methylphenol *	.800	.820	.790	0.000	0.000	.803	1.9*
ylnaphthalene	1.686	1.718	1.670	0.000	0.000	1.691	1.4
lorocyclopentadiene #	.414	.439	.486	0.000	0.000	.447	8.2#
Trichlorophenol *	.461	.473	.437	0.000	0.000	.457	4.0*
Trichlorophenol	.476	.481	.432	0.000	0.000	.463	5.8
ronaphthalene	1.529	1.539	1.484	0.000	0.000	1.517	1.9
oaniline	.407	.440	.411	0.000	0.000	.419	4.3
ylphthalate	1.667	1.608	1.296	0.000	0.000	1.524	13.1
hthylene	1.460	1.549	1.710	0.000	0.000	1.573	8.0
nitrotoluene	.206	.224	.253	0.000	0.000	.228	10.3
oaniline	.186	.206	.237	0.000	0.000	.210	12.1
hthene *	.972	.995	1.110	0.000	0.000	1.024	7.2*
nitrophenol #	.083	.098	.127	0.000	0.000	.103	21.9#
ophenol #	.097	.103	.121	0.000	0.000	.107	11.4#

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

ame: ROLL COATER Trekker SF7035 SFUND

: CHICAGOIL Case No.: CD07004 SAS No.: ROLLCOA SDG No.: AFE104

ent ID: 96 1 Calibration Date(s): 03/15/90 03/15/90

for SPCC(#) = 0.050 Max %RSD for CCC(*) = 35.0%

LE ID: RRF25 =>NF077 RRF50 =>NF076
=>NF075

OUND	RRF25	RRF50	RRF100			RRF	% RSD
ofuran	1.262	1.295	1.429	0.000	0.000	1.329	6.7
nitrotoluene	.259	.272	.304	0.000	0.000	.278	8.3
lphthalate	1.054	1.034	1.110	0.000	0.000	1.066	3.7
rophenyl-phenylether	.416	.416	.440	0.000	0.000	.424	3.2
ne	.909	.906	.978	0.000	0.000	.931	4.3
oaniline	.171	.175	.201	0.000	0.000	.182	8.9
nitro-2-methylphenol	.092	.106	.135	0.000	0.000	.111	19.9
osodiphenylamine (1) *	.122	.121	.138	0.000	0.000	.127	7.4*
ophenyl-phenylether	.203	.205	.218	0.000	0.000	.209	3.8
lorobenzene	.248	.241	.255	0.000	0.000	.248	3.0
hlorophenol *	.119	.130	.151	0.000	0.000	.133	12.4*
threne	1.050	1.016	1.100	0.000	0.000	1.055	4.0
cene	1.023	.997	1.100	0.000	0.000	1.040	5.2
utylphthalate	1.192	1.245	1.420	0.000	0.000	1.285	9.3
nthene *	.942	.909	1.074	0.000	0.000	.975	9.0*
	.942	.915	1.082	0.000	0.000	.980	9.2
enzylphthalate	.493	.530	.618	0.000	0.000	.547	11.7
a)anthracene	.800	.801	.789	0.000	0.000	.797	.9
ne	.778	.784	.732	0.000	0.000	.765	3.7
Ethylhexyl)phthalate	.676	.722	.815	0.000	0.000	.737	9.6
ctylphthalate *	2.740	2.715	2.680	0.000	0.000	2.712	1.1*
b)fluoranthene	1.584	1.312	1.349	0.000	0.000	1.415	10.4
k)fluoranthene	1.435	1.339	1.285	0.000	0.000	1.353	5.6
a)pyrene *	1.176	1.082	1.138	0.000	0.000	1.132	4.2*
(1,2,3-cd)pyrene	1.167	1.328	1.445	0.000	0.000	1.313	10.6
o(a,h)anthracene	.886	1.018	1.111	0.000	0.000	1.005	11.3
g,h,i)perylene	.993	1.144	1.193	0.000	0.000	1.110	9.4
enzene-d5	1.368	1.473	1.646	0.000	0.000	1.496	9.4
robiphenyl	1.866	1.918	1.777	0.000	0.000	1.854	3.8
nyl-d14	.613	.614	.717	0.000	0.000	.648	9.2
-d5	1.605	1.709	1.847	0.000	0.000	1.720	7.1
rophenol	1.403	1.438	1.532	0.000	0.000	1.457	4.6
Tribromophenol	.123	.120	.137	0.000	0.000	.127	6.8

not be separated from Diphenylamine

U. S. EPA - REGION V
SEMI-VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name:FULTZ LANDFILL TREKKER C Contract:SFUND

Lab Code: CHICAGOIL Case No.: SF7027 SAS No.: SF7035 SDG No.: TGBTFA

Lab File ID (Standard): >NF076 Date Analyzed: 3/15/90

Instrument ID: 96 1 Time Analyzed: 11:13

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	285061.	7.19	424422.	20.48	174483.	32.70
	UPPER LIMIT	570122.		848844.		348966.	
	LOWER LIMIT	142530.		212211.		87242.	
	EPA SAMPLE NO.						
01	METHODBLANK	334640.	7.22	521123.	20.45	225130.	32.67
02	90FD02R08	322732.	7.22	509113.	20.45	227883.	32.68
03	90FD10S38	313772.	7.26	473806.	20.45	235686.	32.67
04	90FD10S39	309350.	7.20	482302.	20.45	215858.	32.67
05	90FD10D39	313768.	7.26	445125.	20.45	218201.	32.67
06	90FD10S40	304468.	7.15	430462.	20.43	234200.	32.67
07	90FD10S41	356570.	7.24	530335.	20.45	238029.	32.66
08	90FD10S38MS	353928.	7.22	418286.	20.43	205452.	32.66
09	90FD10S38MD	343742.	7.15	446566.	20.43	222858.	32.66
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22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (PHN) = d-10-Phenanthrene
IS3 (PRY) = d12-Perylene

UPPER LIMIT = + 100%
of internal stansard 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.

:QREP,^NF075

QUANT [redacted]

Operator ID: BABU Quant Rev: 6 Quant Time: 900315 11:02
Output File: ^NF075::C2 Injected at: 900315 10:13
Data File: >NF075::D6 Dilution Factor: 1.00000
Name: TOXSTD 100PPM
Misc: 031590

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 08:47

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.30	180	408745	50.00	NG/UL	95
2)	2-Fluorophenol	4.76	38	1251963	106.96	NG/UL	99
3)	Phenol-d5	6.64	143	1510253	107.00	NG/UL	79
4)	Phenol	6.67	145	1653341	102.96	NG/UL	69
5)	bis(2-Chloroethyl)Ether	6.80	152	1566854	106.48	NG/UL	97
6)	2-Chlorophenol	6.89	157	1095442	106.70	NG/UL	99
7)	1,3-Dichlorobenzene	7.21	175	1162694M	104.93	NG/UL	94
8)	1,4-Dichlorobenzene	7.33	182	1200514	102.10	NG/UL	94
9)	Benzyl Alcohol	7.72	204	645075	113.87	NG/UL	96
10)	1,2-Dichlorobenzene	7.80	208	1136152	104.64	NG/UL	98
11)	2-Methylphenol	8.10	225	933999	109.19	NG/UL	96
12)	bis(2-Chloroisopropyl)ether	8.15	228	329740	104.36	NG/UL	99
13)	4-Methylphenol	8.51	248	868492	103.20	NG/UL	98
14)	N-Nitroso-Di-n-propylamine	8.51	248	902722	107.05	NG/UL	97
15)	Hexachloroethane	8.58	252	347479	103.40	NG/UL	98
16)	d8-Naphthalene	10.72	372	1349171	52.93	NG/UL	85
17)	Nitrobenzene-d5	8.78	263	1345895	111.66	NG/UL	84
18)	Nitrobenzene	8.81	265	538998	110.42	NG/UL	85
19)	Isophorone	9.49	303	2145591	98.38	NG/UL	99
20)	2-Nitrophenol	9.70	315	503238	114.62	NG/UL	89
21)	2,4-Dimethylphenol	9.95	329	669911	106.64	NG/UL	96
22)	Benzoic Acid	10.45	357	526540	120.67	NG/UL	98
23)	bis(2-Chloroethoxy)Methane	10.20	343	1455618	108.94	NG/UL	99
24)	2,4-Dichlorophenol	10.40	354	692438	107.39	NG/UL	92
25)	1,2,4-Trichlorobenzene	10.61	366	748384	106.76	NG/UL	95
26)	Naphthalene	10.77	375	2161088	90.04	NG/UL	95
27)	4-Chloroaniline	11.02	389	386233	87.84	NG/UL	93
28)	Hexachlorobutadiene	11.40	410	381088	103.51	NG/UL	94
29)	4-Chloro-3-methylphenol	12.61	478	645702	104.18	NG/UL	96
30)	2-Methylnaphthalene	12.84	491	1364983	107.59	NG/UL	95
31)	d10-Acenaphthene	16.05	671	392000	49.54	NG/UL	94
32)	Hexachlorocyclopentadiene	13.59	533	397419	131.13	NG/UL	98
33)	2,4,6-Trichlorophenol	13.82	546	357341	103.76	NG/UL	88
34)	2,4,5-Trichlorophenol	13.93	552	353270M	99.75	NG/UL	83
35)	2-Chloronaphthalene	14.29	572	1213288	109.55	NG/UL	96
36)	2-Fluorobiphenyl	14.09	561	1452959	105.07	NG/UL	93
37)	2-Nitroaniline	14.75	598	335812M	107.64	NG/UL	
38)	Dimethylphthalate	15.53	642	1059791	95.33	NG/UL	80
39)	*d-10-Phenanthrene	20.49	920	466857	50.00	NG/UL	99
40)	Acenaphthylene	15.55	643	1596300	111.28	NG/UL	89
41)	3-Nitroaniline	16.03	670	220938	112.76	NG/UL	87
42)	Acenaphthene	16.14	676	1036815	110.82	NG/UL	96
43)	2,4-Dinitrophenol	16.32	686	118797	148.70	NG/UL	80
44)	4-Nitrophenol	16.69	707	112658	106.82	NG/UL	79
45)	Dibenzofuran	16.64	704	1334115	109.17	NG/UL	92
46)	2,4-Dinitrotoluene	16.80	713	283499	110.54	NG/UL	74
47)	2,6-Dinitrotoluene	15.64	648	236058M	111.53	NG/UL	
48)	Diethylphthalate	17.73	765	1036078	108.97	NG/UL	89
49)	4-Chlorophenyl-phenylether	17.78	768	410485	106.36	NG/UL	91

50)	Fluorene	17.69	763	912877	107.90	NG/UL	99
51)	4-Nitroaniline	17.91	775	187676M	114.69	NG/UL	
52)	4,6-Dinitro-2-methylphenol	18.03	782	126357	134.88	NG/UL	70
'53)'	N-Nitrosodiphenylamine	18.16	789	129015	63.80	NG/UL	93
54)	2,4,6-Tribromophenol	18.46	806	127446	106.96	NG/UL	98
55)	4-Bromophenyl-phenylether	19.24	850	203199	104.76	NG/UL	93
56)	Hexachlorobenzene	19.62	871	238422	103.08	NG/UL	97
57)	Pentachlorophenol	20.19	903	141335	113.58	NG/UL	99
58)	Phenanthrene	20.56	924	1027313	104.86	NG/UL	98
59)	Anthracene ?NF075	20.56	924	1027313	106.49	NG/UL	98
60)	Di-n-Butylphthalate	22.72	1045	1325478	113.35	NG/UL	95
61)	Fluoranthene	24.22	1129	1002830	110.81	NG/UL	94
62)	d12-Chrysene	28.63	1377	303949	42.95	NG/UL	98
63)	Pyrene	24.87	1166	1010627	109.53	NG/UL	98
64)	Terphenyl-d14	25.53	1203	669366	112.59	NG/UL	93
65)	Butylbenzylphthalate	27.24	1299	577037	114.97	NG/UL	64
66)	Benzo(a)Anthracene	28.58	1374	736557	92.56	NG/UL	95
67)	Bis(2-Ethylhexyl)Phthalate	29.19	1408	760808	103.62	NG/UL	89
68)	Chrysene	28.71	1381	683368M	87.26	NG/UL	90
69)	*d12-Perylene	32.72	1606	172674	50.00	NG/UL	95
70)	Di-n-octylphthalate	30.97	1508	925370	96.28	NG/UL	85
71)	Benzo(b)fluoranthene	31.72	1550	465903	92.00	NG/UL	91
72)	Benzo(k)Fluoranthene	31.79	1554	443757M	107.43	NG/UL	91
73)	Benzo(a)Pyrene	32.58	1598	392877	103.66	NG/UL	98
74)	Indeno(1,2,3-cd)Pyrene	35.71	1773	498888	128.20	NG/UL	84
75)	Dibenzo(a,h)Anthracene	35.77	1776	383671	125.85	NG/UL	91
76)	Benzo(g,h,i)Perylene	36.52	1818	412002	128.73	NG/UL	85

* Compound is ISTD

:QREP,^NF077

QUANT REPORT

Operator ID: BABU Quant Rev: 6 Quant Time: 900315 13:01
Output File: ^NF077::C2 Injected at: 900315 12:13
Data File: >NF077::D6 Dilution Factor: 1.00000
Name: TOXSTD 25PPM
Misc: 031590

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 08:47

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.24	177	291434	50.00	NG/UL	96
2)	2-Fluorophenol	4.66	32	204447	24.50	NG/UL	95
3)	Phenol-d5	6.55	138	233935	23.25	NG/UL	86
4)	Phenol	6.58	140	270932	23.66	NG/UL	70
5)	bis(2-Chloroethyl)Ether	6.71	147	252906	24.11	NG/UL	97
6)	2-Chlorophenol	6.81	153	173916	23.76	NG/UL	97
7)	1,3-Dichlorobenzene	7.15	172	192702M	24.39	NG/UL	97
8)	1,4-Dichlorobenzene	7.28	179	205438	24.50	NG/UL	97
9)	Benzyl Alcohol	7.65	200	99523	24.64	NG/UL	95
10)	1,2-Dichlorobenzene	7.72	204	190633	24.63	NG/UL	97
11)	2-Methylphenol	8.04	222	148250	24.31	NG/UL	99
12)	bis(2-Chloroisopropyl)ether	8.08	224	54917	24.38	NG/UL	99
13)	4-Methylphenol	8.43	244	150221	25.04	NG/UL	99
14)	N-Nitroso-Di-n-propylamine	8.43	244	152674	25.39	NG/UL	91
15)	Hexachloroethane	8.54	250	58672	24.49	NG/UL	95
16)	d8-Naphthalene	10.66	369	938532	51.64	NG/UL	86
17)	Nitrobenzene-d5	8.70	259	199396	23.20	NG/UL	84
18)	Nitrobenzene	8.74	261	85122	24.46	NG/UL	89
19)	Isophorone	9.41	299	381397	24.53	NG/UL	95
20)	2-Nitrophenol	9.65	312	71499	22.84	NG/UL	82

21)	2,4-Dimethylphenol	9.90	326	112460	25.11	NG/UL	91
22)	Benzoic Acid	10.22	344	57865	18.60	NG/UL	99
23)	bis(2-Chloroethoxy)Methane	10.14	340	236165	24.79	NG/UL	98
24)	2,4-Dichlorophenol	10.34	351	116259	25.29	NG/UL	98
25)	1,2,4-Trichlorobenzene	10.57	364	127295	25.47	NG/UL	93
26)	Naphthalene	10.72	372	436229	25.49	NG/UL	96
27)	4-Chloroaniline	10.98	387	69952	22.31	NG/UL	92
28)	Hexachlorobutadiene	11.36	408	65140	24.81	NG/UL	96
29)	4-Chloro-3-methylphenol	12.57	476	116540M	26.37	NG/UL	
30)	2-Methylnaphthalene	12.80	489	245633	27.15	NG/UL	94
31)	d10-Acenaphthene	16.01	669	345973	61.32	NG/UL	96
32)	Hexachlorocyclopentadiene	13.55	531	60381	27.94	NG/UL	96
33)	2,4,6-Trichlorophenol	13.78	544	67250M	27.39	NG/UL	94
34)	2,4,5-Trichlorophenol	13.89	550	69400	27.48	NG/UL	93
35)	2-Chloronaphthalene	14.24	570	222829	28.22	NG/UL	97
36)	2-Fluorobiphenyl	14.05	559	271916	27.58	NG/UL	93
37)	2-Nitroaniline	14.69	595	59365	26.69	NG/UL	86
38)	Dimethylphthalate	15.47	639	242898	30.64	NG/UL	80
39)	*d-10-Phenanthrene	20.48	920	449655	50.00	NG/UL	97
40)	Acenaphthylene	15.51	641	328311	23.76	NG/UL	89
41)	3-Nitroaniline	15.97	667	41910	22.21	NG/UL	90
42)	Acenaphthene	16.10	674	218519	24.25	NG/UL	97
43)	2,4-Dinitrophenol	16.27	684	18660	24.25	NG/UL	80
44)	4-Nitrophenol	16.65	705	21877M	21.54	NG/UL	76
45)	Dibenzofuran	16.59	702	283681	24.10	NG/UL	94
46)	2,4-Dinitrotoluene	16.75	711	58140	23.54	NG/UL	80
47)	2,6-Dinitrotoluene	15.58	645	46364M	22.74	NG/UL	
48)	Diethylphthalate	17.68	763	237050	25.88	NG/UL	89
49)	4-Chlorophenyl-phenylether	17.75	767	93535	25.16	NG/UL	96
50)	Fluorene	17.64	761	204460	25.09	NG/UL	99
51)	4-Nitroaniline	17.84	772	38528M	24.44	NG/UL	
52)	4,6-Dinitro-2-methylphenol	17.98	780	20720	22.96	NG/UL	78
53)	N-Nitrosodiphenylamine	18.13	788	27525	14.13	NG/UL	89
54)	2,4,6-Tribromophenol	18.43	805	27746	24.18	NG/UL	96
55)	4-Bromophenyl-phenylether	19.21	849	45741	24.48	NG/UL	95
56)	Hexachlorobenzene	19.59	870	55701	25.00	NG/UL	92
57)	Pentachlorophenol	20.16	902	26681	22.26	NG/UL	94
58)	Phenanthrene	20.53	923	235987	25.01	NG/UL	99
59)	Anthracene	20.67	931	229928M	24.74	NG/UL	99
60)	Di-n-Butylphthalate	22.69	1044	268029	23.80	NG/UL	97
61)	Fluoranthene	24.18	1128	211722	24.29	NG/UL	94
62)	d12-Chrysene	28.61	1377	316034	46.37	NG/UL	98
63)	Pyrene	24.84	1165	211772	23.83	NG/UL	96
64)	Terphenyl-d14	25.50	1202	137770	24.06	NG/UL	97
65)	Butylbenzylphthalate	27.22	1299	110874M	22.94	NG/UL	
66)	Benzo(a)Anthracene	28.56	1374	179867	23.47	NG/UL	97
67)	Bis(2-Ethylhexyl)Phthalate	29.17	1408	151903	21.48	NG/UL	90
68)	Chrysene	28.68	1381	174865M	23.18	NG/UL	94
69)	*d12-Perylene	32.70	1606	166331	50.00	NG/UL	96
70)	Di-n-octylphthalate	30.96	1509	227914	24.62	NG/UL	84
71)	Benzo(b)fluoranthene	31.70	1550	131740	27.01	NG/UL	94
72)	Benzo(k)Fluoranthene	31.77	1554	119310M	29.98	NG/UL	94
73)	Benzo(a)Pyrene	32.53	1597	97783	26.78	NG/UL	98
74)	Indeno(1,2,3-cd)Pyrene	35.65	1771	97010	25.88	NG/UL	84
75)	Dibenzo(a,h)Anthracene	35.72	1775	73674	25.09	NG/UL	88
76)	Benzo(g,h,i)Perylene	36.46	1816	82596	26.79	NG/UL	82

NF07

* Compound is ISTD

QUANT REPORT

Operator ID: BABU Quant Rev: 6 Quant Time: 900315 12:02
Output File: ^NF076::C2 Injected at: 900315 11:13
Data File: >NF076::D6 Dilution Factor: 1.00000
Name: TOXSTD 50PPM
Misc: 031590

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 08:47

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.19	174	285061	50.00	NG/UL	97
2)	2-Fluorophenol	4.60	29	409819	50.20	NG/UL	98
3)	Phenol-d5	6.49	135	487069	49.48	NG/UL	82
4)	Phenol	6.53	137	560660	50.06	NG/UL	69
5)	bis(2-Chloroethyl)Ether	6.67	145	514079	50.10	NG/UL	98
6)	2-Chlorophenol	6.76	150	358164	50.02	NG/UL	99
7)	1,3-Dichlorobenzene	7.10	169	373592M	48.34	NG/UL	94
8)	1,4-Dichlorobenzene	7.22	176	416571	50.80	NG/UL	95
9)	Benzyl Alcohol	7.62	198	206529	52.28	NG/UL	98
10)	1,2-Dichlorobenzene	7.69	202	383019	50.58	NG/UL	98
11)	2-Methylphenol	8.01	220	300834	50.43	NG/UL	99
12)	bis(2-Chloroisopropyl)ether	8.06	223	112664	51.13	NG/UL	99
13)	4-Methylphenol	8.42	243	298645	50.89	NG/UL	98
14)	N-Nitroso-Di-n-propylamine	8.40	242	306814	52.17	NG/UL	99
15)	Hexachloroethane	8.51	248	120051	51.22	NG/UL	99
16)	d8-Naphthalene	10.65	368	951097	53.50	NG/UL	84
17)	Nitrobenzene-d5	8.67	257	419993	49.96	NG/UL	89
18)	Nitrobenzene	8.72	260	174714	51.32	NG/UL	85
19)	Isophorone	9.40	298	789044	51.87	NG/UL	94
20)	2-Nitrophenol	9.63	311	154305	50.39	NG/UL	85
21)	2,4-Dimethylphenol	9.88	325	225327	51.43	NG/UL	94
22)	Benzoic Acid	10.27	347	153458	50.43	NG/UL	97
23)	bis(2-Chloroethoxy)Methane	10.13	339	489609	52.54	NG/UL	97
24)	2,4-Dichlorophenol	10.32	350	234441	52.14	NG/UL	93
25)	1,2,4-Trichlorobenzene	10.56	363	253734	51.90	NG/UL	95
26)	Naphthalene	10.70	371	893128	53.36	NG/UL	96
27)	4-Chloroaniline	10.98	387	140861	45.94	NG/UL	97
28)	Hexachlorobutadiene	11.34	407	131279	51.13	NG/UL	97
29)	4-Chloro-3-methylphenol	12.57	476	233795	54.09	NG/UL	97
30)	2-Methylnaphthalene	12.80	489	489609	55.33	NG/UL	95
31)	d10-Acenaphthene	16.01	669	346277	62.74	NG/UL	96
32)	Hexachlorocyclopentadiene	13.55	531	125158	59.21	NG/UL	99
33)	2,4,6-Trichlorophenol	13.78	544	134898	56.17	NG/UL	88
34)	2,4,5-Trichlorophenol	13.89	550	137004	55.47	NG/UL	91
35)	2-Chloronaphthalene	14.25	570	438652	56.79	NG/UL	98
36)	2-Fluorobiphenyl	14.05	559	546693	56.69	NG/UL	92
37)	2-Nitroaniline	14.71	596	125493M	57.68	NG/UL	
38)	Dimethylphthalate	15.47	639	458337	59.12	NG/UL	90
39)	*d-10-Phenanthrene	20.48	920	424422	50.00	NG/UL	98
40)	Acenaphthylene	15.53	642	657416	50.41	NG/UL	89
41)	3-Nitroaniline	15.97	667	87473	49.11	NG/UL	94
42)	Acenaphthene	16.10	674	422237	49.64	NG/UL	96
43)	2,4-Dinitrophenol	16.28	684	41691	57.40	NG/UL	85
44)	4-Nitrophenol	16.65	705	43592M	45.47	NG/UL	
45)	Dibenzofuran	16.62	703	549570	49.47	NG/UL	98

46)	2,4-Dinitrotoluene	16.78	712	115486	49.53	NG/UL	93
47)	2,6-Dinitrotoluene	15.60	646	95206M	49.48	NG/UL	
48)	Diethylphthalate	17.68	763	438939	50.78	NG/UL	91
49)	4-Chlorophenyl-phenylether	17.76	767	176694	50.36	NG/UL	96
50)	Fluorene	17.65	761	384590	50.00	NG/UL	98
51)	4-Nitroaniline	17.86	773	74201	49.88	NG/UL	82
52)	4,6-Dinitro-2-methylphenol	17.99	780	44817	52.62	NG/UL	71
53)	N-Nitrosodiphenylamine	18.13	788	51522	28.03	NG/UL	93
54)	2,4,6-Tribromophenol	18.43	805	51033	47.11	NG/UL	99
55)	4-Bromophenyl-phenylether	19.22	849	86877	49.27	NG/UL	90
56)	Hexachlorobenzene	19.59	870	102080	48.55	NG/UL	93
57)	Pentachlorophenol	20.16	902	55269	48.86	NG/UL	94
58)	Phenanthrene	20.54	923	430992	48.39	NG/UL	97
59)	Anthracene	20.68	931	422951M	48.22	NG/UL	97
60)	Di-n-Butylphthalate	22.69	1044	528224	49.69	NG/UL	95
61)	Fluoranthene	24.19	1128	385731	46.88	NG/UL	94
62)	d12-Chrysene	28.62	1377	313305	48.70	NG/UL	99
63)	Pyrene >NF076	24.84	1165	388349	46.29	NG/UL	96
64)	Terphenyl-d14	25.50	1202	260749	48.24	NG/UL	94
65)	Butylbenzylphthalate	27.23	1299	224882M	49.29	NG/UL	
66)	Benzo(a)Anthracene	28.56	1374	340015	47.00	NG/UL	96
67)	Bis(2-Ethylhexyl)Phthalate	29.19	1409	306438	45.91	NG/UL	89
68)	Chrysene	28.69	1381	332914M	46.76	NG/UL	92
69)	*d12-Perylene	32.70	1606	174483	50.00	NG/UL	96
70)	Di-n-octylphthalate	30.97	1509	473813	48.79	NG/UL	84
71)	Benzo(b)fluoranthene	31.72	1551	228937M	44.74	NG/UL	91
72)	Benzo(k)Fluoranthene	31.77	1554	233695	55.99	NG/UL	92
73)	Benzo(a)Pyrene	32.56	1598	188719	49.27	NG/UL	98
74)	Indeno(1,2,3-cd)Pyrene	35.68	1772	231681	58.92	NG/UL	85
75)	Dibenzo(a,h)Anthracene	35.75	1776	177577	57.64	NG/UL	90
76)	Benzo(g,h,i)Perylene	36.48	1817	199560	61.71	NG/UL	86

* Compound is ISTD

QUANT REPORT

Operator ID: BABU
Output File: ^NF084::C2
Data File: >NF084::D6
Name: SF7035 METHOD BLANK
Misc: 031590 1.L/1.ML

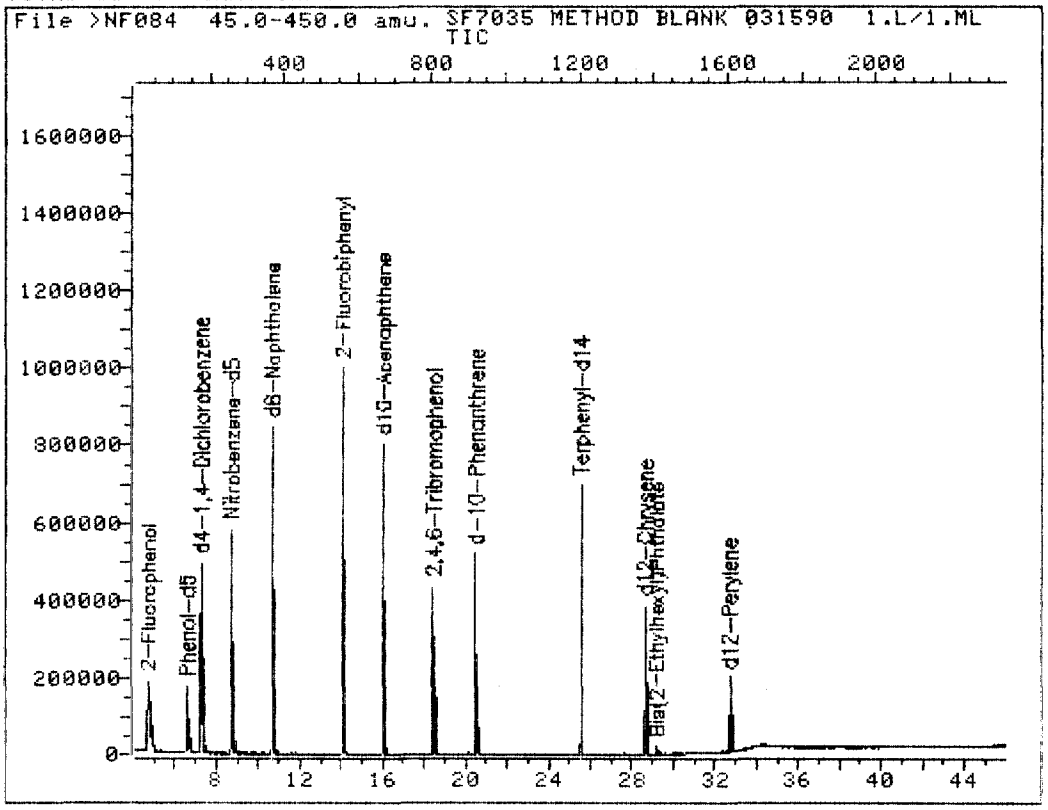
Quant Rev: 6
Quant Time: 900315 21:31
Injected at: 900315 20:42
Dilution Factor: 1.00000

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.22	152.0	334640	50.00	NG/UL	97
2)	2-Fluorophenol	4.69	112.0	430681	44.15	NG/UL	99
3)	Phenol-d5	6.56	99.0	320261	27.81	NG/UL	88
16)	d8-Naphthalene	10.64	136.0	1025424	46.63	NG/UL	86
17)	Nitrobenzene-d5	8.68	82.0	661217	66.04	NG/UL	87
31)	d10-Acenaphthene	16.00	164.0	367644	49.03	NG/UL	95
36)	2-Fluorobiphenyl	14.04	172.0	777512	62.67	NG/UL	93
39)	*d-10-Phenanthrene	20.45	188.0	521123	50.00	NG/UL	96
54)	2,4,6-Tribromophenol	18.42	330.0	106257	80.46	NG/UL	98
62)	d12-Chrysene	28.60	240.0	354085	48.72	NG/UL	96
64)	Terphenyl-d14	25.50	244.0	602329	89.18	NG/UL	94
67)	Bis(2-Ethylhexyl)Phthalate	29.15	149.0	13598	1.77	NG/UL	87
69)	*d12-Perylene	32.67	264.0	225130	50.00	NG/UL	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >NF084 Quant Output File: ^NF084::C2
Name: SF7035 METHOD BLANK
Misc: 031590 1.L/1.ML

Id File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

Operator ID: BABU
Quant Time: 900315 21:31
Injected at: 900315 20:42

QUANT REPORT

Operator ID: BABU
Output File: ^NF085::C2
Data File: >NF085::D6
Name: SF7035 90FD02R08
Misc: 031590 1.L/1.ML

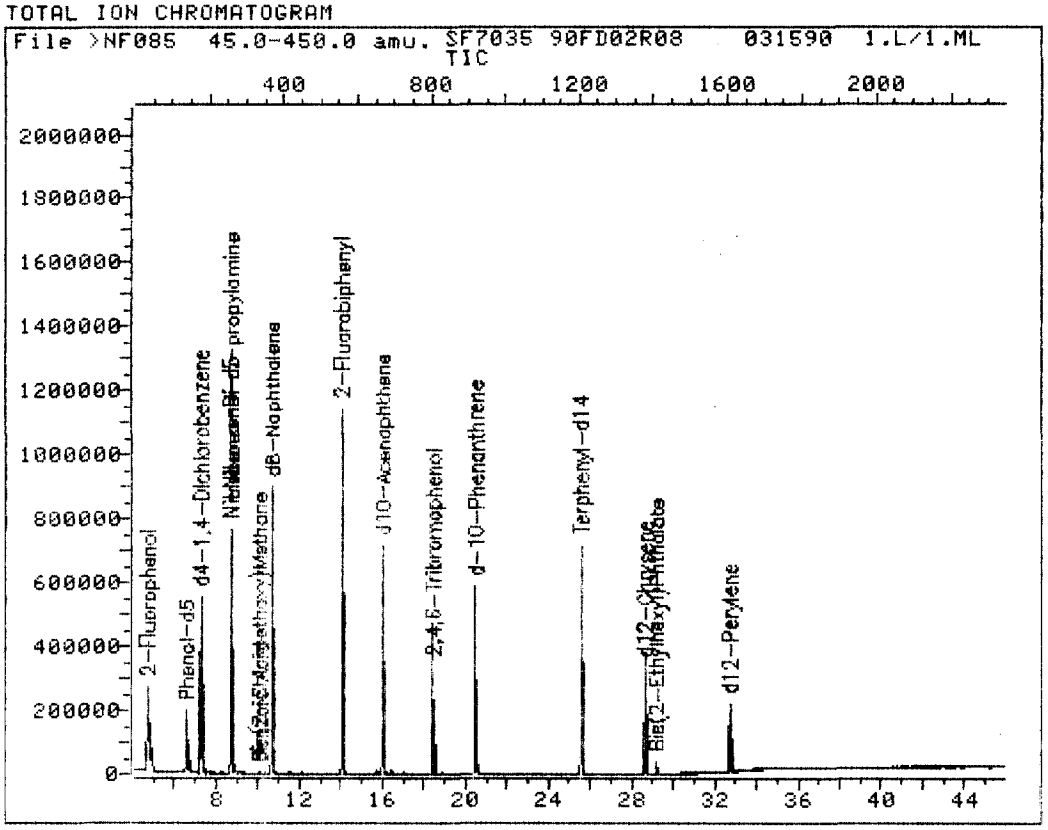
Quant Rev: 6
Quant Time: 900315 22:31
Injected at: 900315 21:42
Dilution Factor: 1.00000

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.22	152.0	322732	50.00	NG/UL	98
2)	2-Fluorophenol	4.68	112.0	492945	52.40	NG/UL	99
3)	Phenol-d5	6.55	99.0	358795	32.31	NG/UL	85
14)	N-Nitroso-Di-n-propylamine	8.68	70.0	102792	14.80	NG/UL	60
16)	d8-Naphthalene	10.64	136.0	985835	46.48	NG/UL	88
17)	Nitrobenzene-d5	8.68	82.0	747167	77.38	NG/UL	84
22)	~~Benzo~~ic Acid	10.07	105.0	1354	.40	NG/UL	93
23)	~~bis~~(2-Chloroethoxy)Methane	10.04	93.0	864	.08	NG/UL	82
31)	d10-Acenaphthene	15.98	164.0	349729	48.36	NG/UL	96
36)	2-Fluorobiphenyl	14.02	172.0	879886	73.54	NG/UL	94
39)	*d-10-Phenanthrene	20.45	188.0	509113	50.00	NG/UL	96
54)	2,4,6-Tribromophenol	18.40	330.0	117907	91.38	NG/UL	96
62)	d12-Chrysene	28.58	240.0	364970	51.40	NG/UL	99
64)	Terphenyl-d14	25.50	244.0	644718	97.71	NG/UL	94
67)	Bis(2-Ethylhexyl)Phthalate	29.15	149.0	24021	3.20	NG/UL	87
69)	*d12-Perylene	32.68	264.0	227883	50.00	NG/UL	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >NF085 Quant Output File: ^NF085::C2
Name: SF7035 90FD02R08
Misc: 031590 1.L/1.ML

Id File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

Operator ID: BABU
Quant Time: 900315 22:31
Injected at: 900315 21:42

QUANT REPORT

Operator ID: BABU
Output File: ^NF086::C2
Data File: >NF086::D6
Name: SF7035 90FD10S38
Misc: 031590 1.L/1.ML

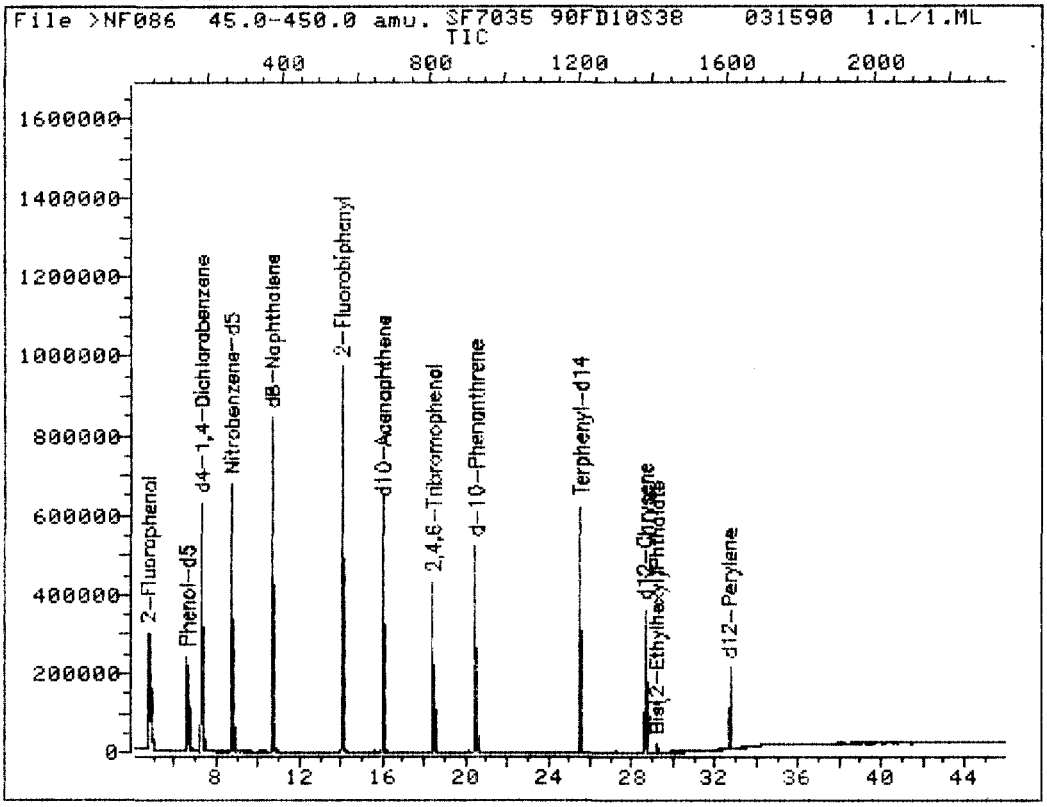
Quant Rev: 6
Quant Time: 900315 23:30
Injected at: 900315 22:42
Dilution Factor: 1.00000

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.26	152.0	313772	50.00	NG/UL	98
2)	2-Fluorophenol	4.71	112.0	463244	50.65	NG/UL	95
3)	Phenol-d5	6.58	99.0	350869	32.50	NG/UL	84
16)	d8-Naphthalene	10.66	136.0	949151	46.03	NG/UL	89
17)	Nitrobenzene-d5	8.70	82.0	647339	68.95	NG/UL	86
31)	d10-Acenaphthene	15.98	164.0	339476	48.29	NG/UL	97
36)	2-Fluorobiphenyl	14.02	172.0	747041	64.22	NG/UL	93
39)	*d-10-Phenanthrene	20.45	188.0	473806	50.00	NG/UL	97
54)	2,4,6-Tribromophenol	18.42	330.0	102905	85.70	NG/UL	98
62)	d12-Chrysene	28.60	240.0	330924	50.08	NG/UL	98
64)	Terphenyl-d14	25.50	244.0	532831	86.77	NG/UL	94
67)	Bis(2-Ethylhexyl)Phthalate	29.16	149.0	14133	2.02	NG/UL	88
69)	*d12-Perylene	32.67	264.0	235686	50.00	NG/UL	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >NF086 Quant Output File: ^NF086::C2
Name: SF7035 90FD10S38
Misc: 031590 1.L/1.ML

Id File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

Operator ID: BABU
Quant Time: 900315 23:30
Injected at: 900315 22:42

QUANT REPORT

Operator ID: BABU
Output File: ^NF087::C2
Data File: >NF087::D6
Name: SF7035 90FD10S39
Misc: 031590 1.L/1.ML

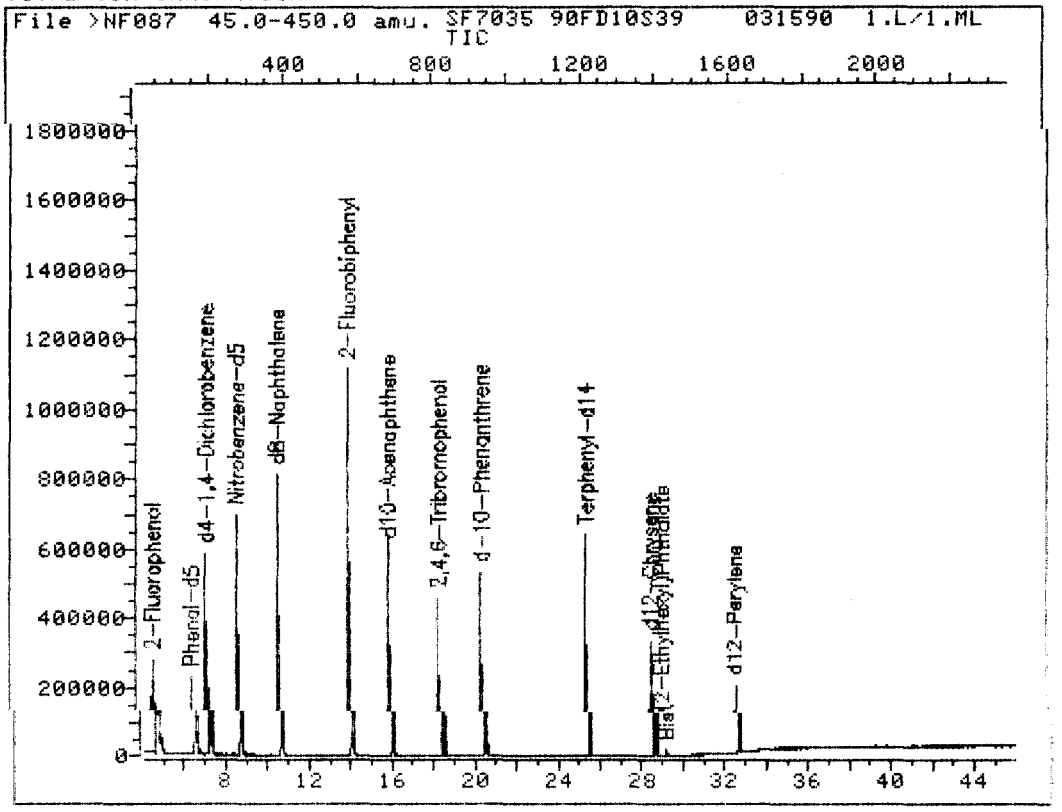
Quant Rev: 6
Quant Time: 900316 00:30
Injected at: 900315 23:42
Dilution Factor: 1.00000

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.20	152.0	309350	50.00	NG/UL	98
2)	2-Fluorophenol	4.64	112.0	488774	54.21	NG/UL	97
3)	Phenol-d5	6.53	99.0	364007	34.20	NG/UL	86
16)	d8-Naphthalene	10.64	136.0	928314	45.66	NG/UL	88
17)	Nitrobenzene-d5	8.68	82.0	725386	78.37	NG/UL	80
31)	d10-Acenaphthene	15.98	164.0	329517	47.54	NG/UL	98
36)	2-Fluorobiphenyl	14.02	172.0	851471	74.24	NG/UL	94
39)	*d-10-Phenanthrene	20.45	188.0	482302	50.00	NG/UL	96
54)	2,4,6-Tribromophenol	18.42	330.0	107984	88.35	NG/UL	94
62)	d12-Chrysene	28.59	240.0	321273	47.76	NG/UL	97
64)	Terphenyl-d14	25.50	244.0	564002	90.23	NG/UL	94
67)	Bis(2-Ethylhexyl)Phthalate	29.15	149.0	10963	1.54	NG/UL	90
69)	*d12-Perylene	32.67	264.0	215858	50.00	NG/UL	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >NF087 Quant Output File: ^NF087::C2
Name: SF7035 90FD10S39
Misc: 031590 1.L/1.ML

Id File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

Operator ID: BABU
Quant Time: 900316 00:30
Injected at: 900315 23:42

QUANT REPORT

Operator ID: BABU
Output File: ^NF088::C2
Data File: >NF088::D6
Name: SF7035 90FD10D39
Misc: 031590 1.L/1.ML

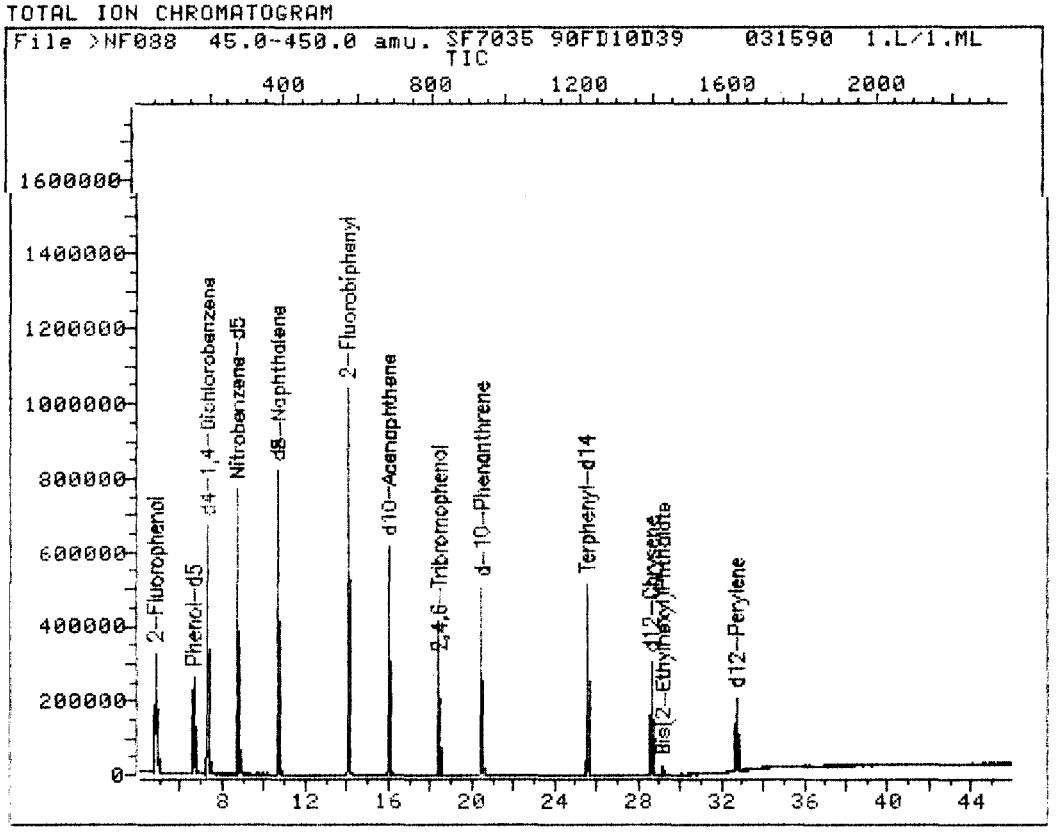
Quant Rev: 6
Quant Time: 900316 01:30
Injected at: 900316 00:41
Dilution Factor: 1.00000

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.26	152.0	313768	50.00	NG/UL	97
2)	2-Fluorophenol	4.75	112.0	492259	53.82	NG/UL	98
3)	Phenol-d5	6.60	99.0	367739	34.06	NG/UL	86
16)	d8-Naphthalene	10.66	136.0	923874	44.80	NG/UL	89
17)	Nitrobenzene-d5	8.70	82.0	714296	76.08	NG/UL	87
31)	d10-Acenaphthene	15.98	164.0	323260	45.98	NG/UL	99
36)	2-Fluorobiphenyl	14.02	172.0	853147	73.34	NG/UL	92
39)	*d-10-Phenanthrene	20.45	188.0	445125	50.00	NG/UL	97
54)	2,4,6-Tribromophenol	18.40	330.0	97952	86.83	NG/UL	97
62)	d12-Chrysene	28.58	240.0	299033	48.17	NG/UL	98
64)	Terphenyl-d14	25.48	244.0	508398	88.13	NG/UL	95
67)	Bis(2-Ethylhexyl)Phthalate	29.15	149.0	13605	2.07	NG/UL	86
69)	*d12-Perylene	32.67	264.0	218201	50.00	NG/UL	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >NF088 Quant Output File: ^NF088::C2
Name: SF7035 90FD10D39
Misc: 031590 1.L/1.ML

Id File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

Operator ID: BABU
Quant Time: 900316 01:30
Injected at: 900316 00:41

QUANT REPORT

Operator ID: BABU
Output File: ^NF089::C2
Data File: >NF089::D6
Name: SF7035 90FD10S40
Misc: 031590 1.L/1.ML

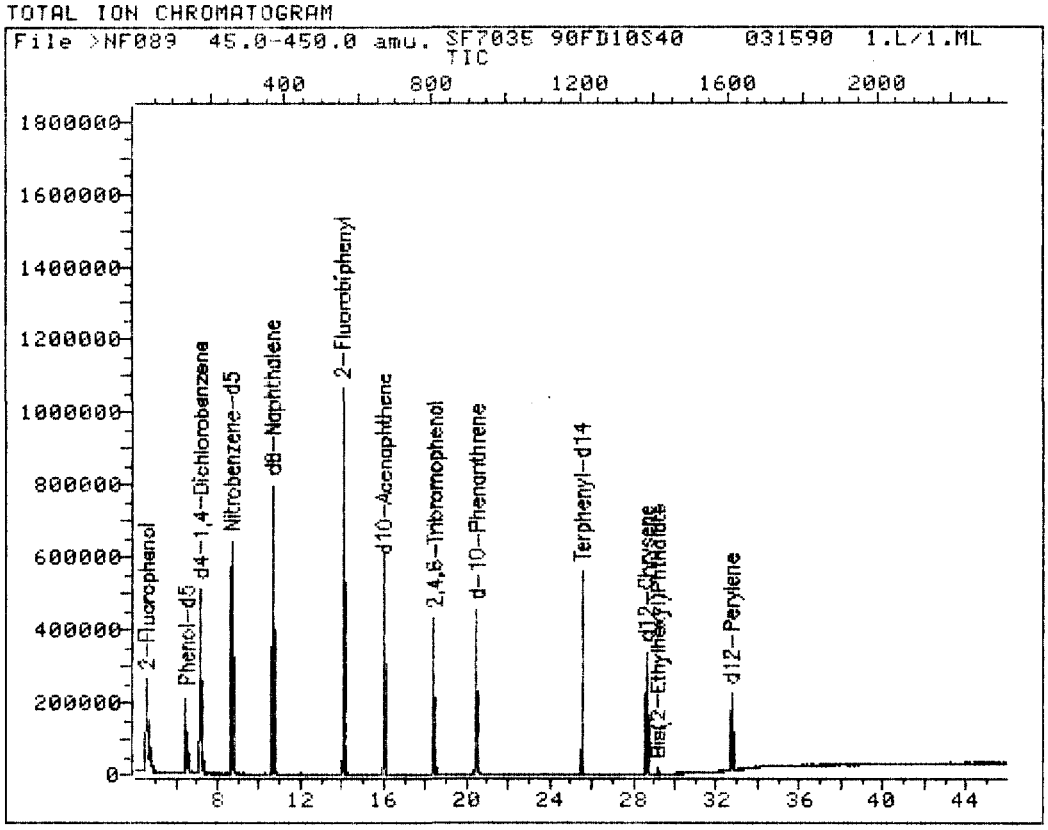
Quant Rev: 6
Quant Time: 900316 02:30
Injected at: 900316 01:41
Dilution Factor: 1.00000

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.15	152.0	304468	50.00	NG/UL	97
2)	2-Fluorophenol	4.57	112.0	486922	54.87	NG/UL	97
3)	Phenol-d5	6.47	99.0	364358	34.78	NG/UL	85
16)	d8-Naphthalene	10.60	136.0	888492	44.40	NG/UL	88
17)	Nitrobenzene-d5	8.65	82.0	665021	73.00	NG/UL	81
31)	d10-Acenaphthene	15.96	164.0	318922	46.75	NG/UL	98
36)	2-Fluorobiphenyl	14.00	172.0	798604	70.75	NG/UL	92
39)	*d-10-Phenanthrene	20.43	188.0	430462	50.00	NG/UL	99
54)	2,4,6-Tribromophenol	18.40	330.0	97312	89.20	NG/UL	94
62)	d12-Chrysene	28.58	240.0	307955	51.29	NG/UL	99
64)	Terphenyl-d14	25.48	244.0	521587	93.49	NG/UL	96
67)	Bis(2-Ethylhexyl)Phthalate	29.15	149.0	10314	1.62	NG/UL	87
69)	*d12-Perylene	32.67	264.0	234200	50.00	NG/UL	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >NF089
Name: SF7035 90FD10S40
Misc: 031590 1.L/1.ML

Quant Output File: ^NF089::C2

Id File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

Operator ID: BABU
Quant Time: 900316 02:30
Injected at: 900316 01:41

QUANT REPORT

Operator ID: BABU
Output File: ^NF090::C2
Data File: >NF090::D6
Name: SF7035 90FD10S41
Misc: 031590 1.L/1.ML

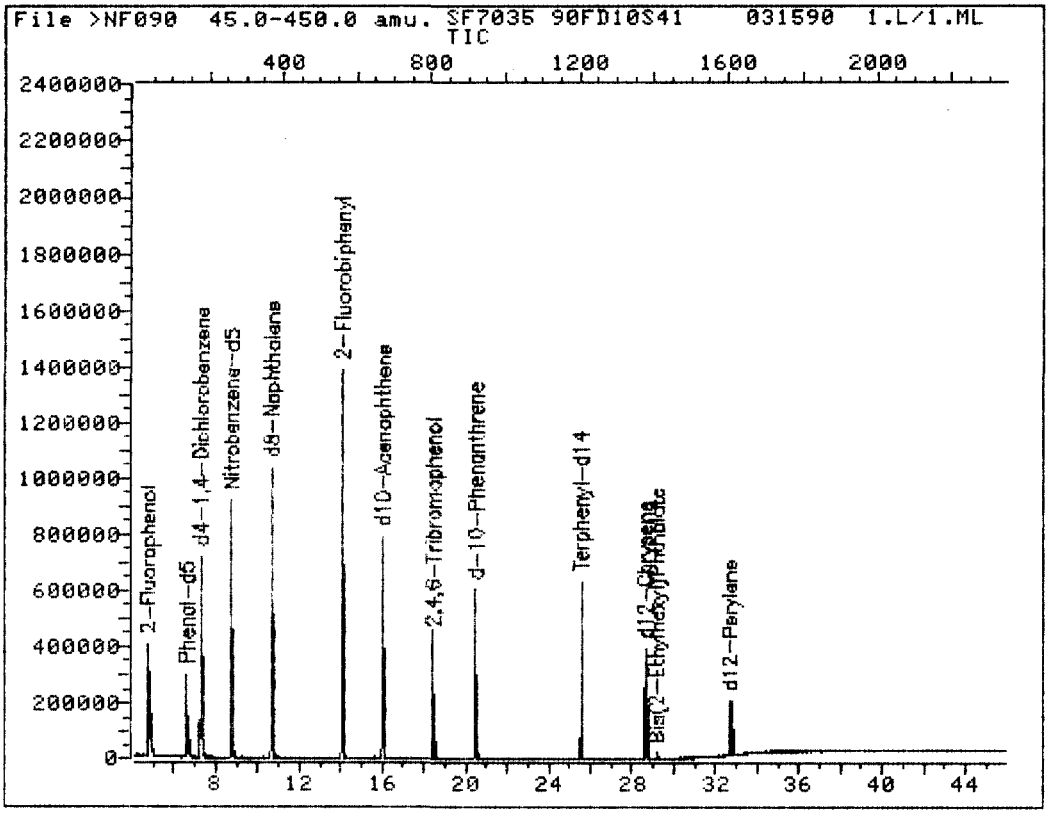
Quant Rev: 6
Quant Time: 900316 03:30
Injected at: 900316 02:41
Dilution Factor: 1.00000

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.24	152.0	356570	50.00	NG/UL	99
2)	2-Fluorophenol	4.71	112.0	584626	56.25	NG/UL	98
3)	Phenol-d5	6.56	99.0	435447	35.49	NG/UL	84
16)	d8-Naphthalene	10.64	136.0	1042560	44.49	NG/UL	88
17)	Nitrobenzene-d5	8.70	82.0	864616	81.04	NG/UL	79
31)	d10-Acenaphthene	15.98	164.0	374276	46.85	NG/UL	99
36)	2-Fluorobiphenyl	14.02	172.0	988245	74.76	NG/UL	92
39)	*d-10-Phenanthrene	20.45	188.0	530335	50.00	NG/UL	98
54)	2,4,6-Tribromophenol	18.40	330.0	121043	90.06	NG/UL	96
62)	d12-Chrysene	28.58	240.0	363465	49.14	NG/UL	99
64)	Terphenyl-d14	25.48	244.0	642984	93.55	NG/UL	96
67)	Bis(2-Ethylhexyl)Phthalate	29.13	149.0	13662	1.75	NG/UL	92
69)	*d12-Perylene	32.66	264.0	238029	50.00	NG/UL	94

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >NF090
Name: SF7035 90FD10S41
Misc: 031590 1.L/1.ML

Quant Output File: ^NF090::C2

Id File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

Operator ID: BABU
Quant Time: 900316 03:30
Injected at: 900316 02:41

QUANT REPORT

Operator ID: BABU
Output File: ^NF092::C2
Data File: >NF092::D6
Name: SF7035 90FD10S38MS
Misc: 031590 1.L/1.ML

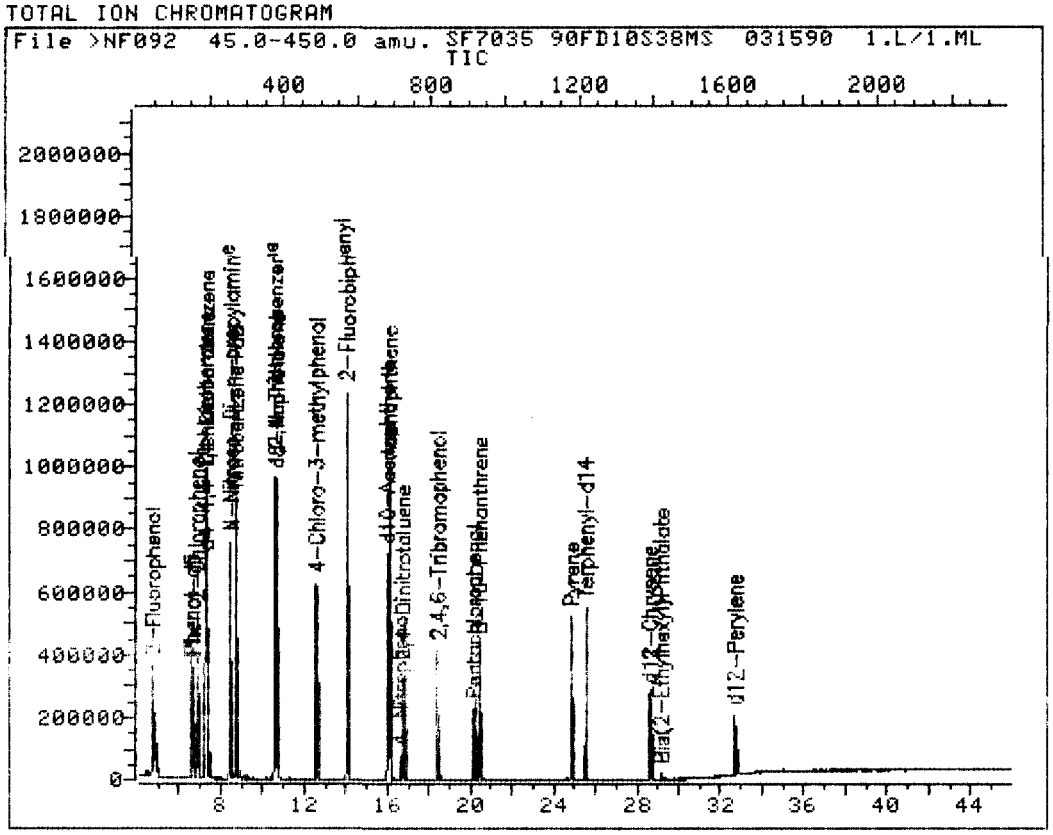
Quant Rev: 6
Quant Time: 900316 05:29
Injected at: 900316 04:41
Dilution Factor: 1.00000

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.22	152.0	353928	50.00	NG/UL	98
2)	2-Fluorophenol	4.69	112.0	590736	57.26	NG/UL	98
3)	Phenol-d5	6.56	99.0	433996	35.64	NG/UL	87
4)	Phenol	6.60	94.0	387792	28.10	NG/UL	73
6)	2-Chlorophenol	6.81	128.0	560350	62.66	NG/UL	97
8)	1,4-Dichlorobenzene	7.26	146.0	597801	58.38	NG/UL	93
14)	N-Nitroso-Di-n-propylamine	8.43	70.0	1010799	132.70	NG/UL	92
16)	d8-Naphthalene	10.64	136.0	1054602	45.34	NG/UL	86
17)	Nitrobenzene-d5	8.70	82.0	848091	80.09	NG/UL	80
25)	1,2,4-Trichlorobenzene	10.55	180.0	475057	75.15	NG/UL	96
29)	4-Chloro-3-methylphenol	12.55	107.0	350548	61.65	NG/UL	98
31)	d10-Acenaphthene	15.98	164.0	351477	44.32	NG/UL	98
36)	2-Fluorobiphenyl	14.02	172.0	927961	70.72	NG/UL	92
39)	*d-10-Phenanthrene	20.43	188.0	418286	50.00	NG/UL	98
42)	Acenaphthene	16.07	153.0	622537	72.55	NG/UL	97
44)	4-Nitrophenol	16.62	109.0	23475	26.25	NG/UL	91
46)	2,4-Dinitrotoluene	16.73	165.0	164525	70.72	NG/UL	78
54)	2,4,6-Tribromophenol	18.40	330.0	100282	94.60	NG/UL	97
57)	Pentachlorophenol	20.11	265.8	74493	66.74	NG/UL	97
62)	d12-Chrysene	28.57	240.0	286894	49.18	NG/UL	98
63)	Pyrene	24.81	202.0	581386	70.93	NG/UL	99
64)	Terphenyl-d14	25.49	244.0	470084	86.71	NG/UL	96
67)	Bis(2-Ethylhexyl)Phthalate	29.14	149.0	12218	1.98	NG/UL	88
69)	*d12-Perylene	32.66	264.0	205452	50.00	NG/UL	95

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >NF092 Quant Output File: ^NF092::C2
Name: SF7035 90FD10S38MS
Misc: 031590 1.L/1.ML

Id File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

Operator ID: BABU
Quant Time: 900316 05:29
Injected at: 900316 04:41

QUANT REPORT

Operator ID: BABU
Output File: ^NF093::C2
Data File: >NF093::D6
Name: SF7035 90FD10S38MSD
Misc: 031590 1.L/1.ML

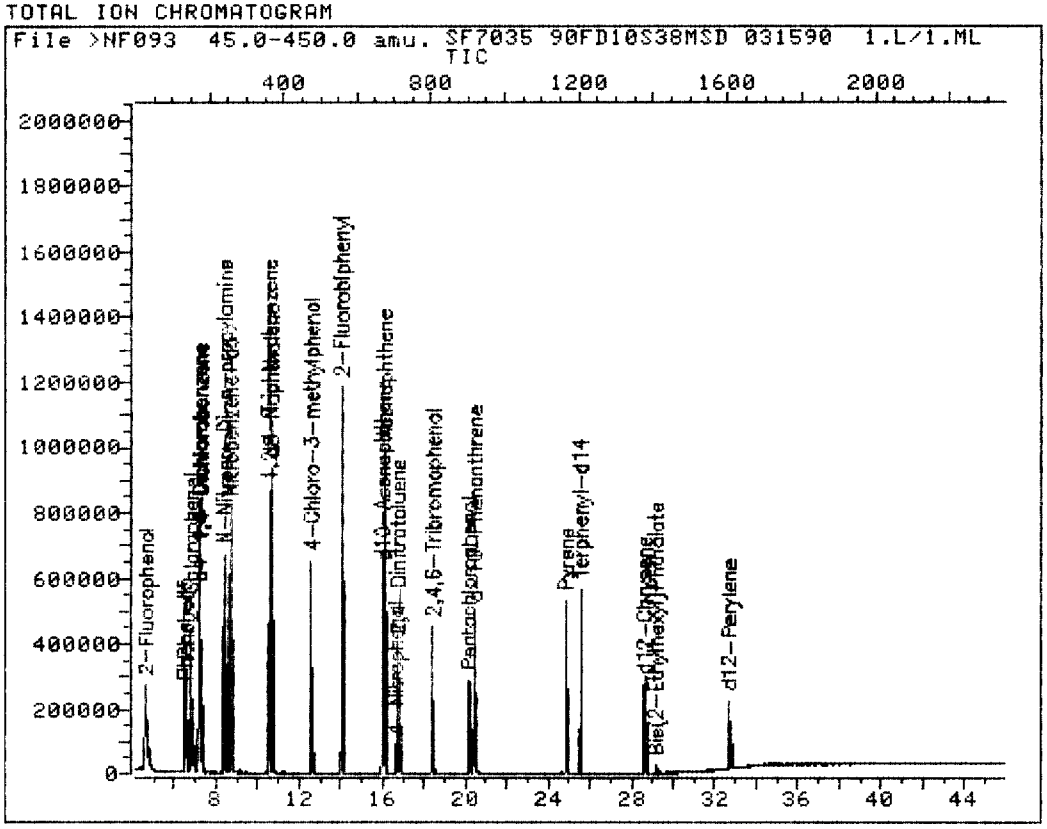
Quant Rev: 6
Quant Time: 900316 06:29
Injected at: 900316 05:40
Dilution Factor: 1.00000

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.15	152.0	343742	50.00	NG/UL	98
2)	2-Fluorophenol	4.59	112.0	505718	50.47	NG/UL	98
3)	Phenol-d5	6.47	99.0	382648	32.35	NG/UL	85
4)	Phenol	6.51	94.0	338218	25.24	NG/UL	71
6)	2-Chlorophenol	6.74	128.0	482203	55.52	NG/UL	97
8)	1,4-Dichlorobenzene	7.20	146.0	480048	48.27	NG/UL	97
14)	N-Nitroso-Di-n-propylamine	8.38	70.0	881234	119.12	NG/UL	93
16)	d8-Naphthalene	10.61	136.0	1039300	46.01	NG/UL	85
17)	Nitrobenzene-d5	8.65	82.0	769707	74.84	NG/UL	83
25)	1,2,4-Trichlorobenzene	10.52	180.0	409802	66.75	NG/UL	95
29)	4-Chloro-3-methylphenol	12.55	107.0	336009	60.85	NG/UL	89
31)	d10-Acenaphthene	15.96	164.0	357224	46.38	NG/UL	96
36)	2-Fluorobiphenyl	14.01	172.0	895361	70.26	NG/UL	92
39)	*d-10-Phenanthrene	20.43	188.0	446566	50.00	NG/UL	98
42)	Acenaphthene	16.07	153.0	584396	63.79	NG/UL	96
44)	4-Nitrophenol	16.62	109.0	26189	27.43	NG/UL	96
46)	2,4-Dinitrotoluene	16.73	165.0	170599	68.68	NG/UL	83
54)	2,4,6-Tribromophenol	18.40	330.0	112181	99.12	NG/UL	97
57)	Pentachlorophenol	20.11	265.8	83849	70.37	NG/UL	95
62)	d12-Chrysene	28.56	240.0	299721	48.12	NG/UL	98
63)	Pyrene	24.81	202.0	602755	68.88	NG/UL	99
64)	Terphenyl-d14	25.49	244.0	494187	85.39	NG/UL	95
67)	Bis(2-Ethylhexyl)Phthalate	29.13	149.0	12889	1.96	NG/UL	89
69)	*d12-Perylene	32.66	264.0	222858	50.00	NG/UL	97

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >NF093 Quant Output File: ^NF093::C2
Name: SF7035 90FD10S38MSD
Misc: 031590 1.L/1.ML

Id File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

Operator ID: BABU
Quant Time: 900316 06:29
Injected at: 900316 05:40

FMGR : QREP,^NF084

QUANT REPORT

Operator ID: BABU Quant Rev: 6 Quant Time: 900315 21:31
Output File: ^NF084::D1 Injected at: 900315 20:42
Data File: >NF084::D6 Dilution Factor: 1.00000
Name: SF7035 METHOD BLANK
Misc: 031590 1.L/1.ML

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.22	176	334640	50.00	NG/UL	97
2)	2-Fluorophenol	4.69	34	430681	44.15	NG/UL	99
3)	Phenol-d5	6.56	139	320261	27.81	NG/UL	88
12)	~~bis~~(2-Chloroisopropyl)ether	8.31	237	121	.05	NG/UL	61
14)	N-Nitroso-Di-n-propylamine	8.68	258	91713	12.73	NG/UL	60
16)	d8-Naphthalene	10.64	368	1025424	46.63	NG/UL	86
17)	Nitrobenzene-d5	8.68	258	661217	66.04	NG/UL	87
31)	d10-Acenaphthene	16.00	669	367644	49.03	NG/UL	95
36)	2-Fluorobiphenyl	14.04	559	777512	62.67	NG/UL	93
39)	*d-10-Phenanthrene	20.45	919	521123	50.00	NG/UL	96
48)	~~Di~~ethylphthalate	17.64	761	2465	.22	NG/UL	74
54)	2,4,6-Tribromophenol	18.42	805	106257	80.46	NG/UL	98
60)	Di-n-Butylphthalate	22.67	1044	1338	.10	NG/UL	82
62)	d12-Chrysene	28.60	1377	354085	48.72	NG/UL	96
64)	Terphenyl-d14	25.50	1203	602329	89.18	NG/UL	94
67)	Bis(2-Ethylhexyl)Phthalate	29.15	1408	13598	1.77	NG/UL	87
69)	*d12-Perylene	32.67	1606	225130	50.00	NG/UL	95

* Compound is ISTD

FMGR : QREP,^NF085

QUANT REPORT

Operator ID: BABU Quant Rev: 6 Quant Time: 900315 22:31
Output File: ^NF085::D1 Injected at: 900315 21:42
Data File: >NF085::D6 Dilution Factor: 1.00000
Name: SF7035 90FD02R08
Misc: 031590 1.L/1.ML

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.22	176	322732	50.00	NG/UL	98
2)	2-Fluorophenol	4.68	33	492945	52.40	NG/UL	99
3)	Phenol-d5	6.55	138	358795	32.31	NG/UL	85
14)	~~N-N~~itroso-Di-n-propylamine	8.68	258	102792	14.80	NG/UL	60
16)	d8-Naphthalene	10.64	368	985835	46.48	NG/UL	88
17)	Nitrobenzene-d5	8.68	258	747167	77.38	NG/UL	84
CK 22)	Benzoic Acid	10.07	336	1354	.40	NG/UL	93
23)	~~bis(2-~~Chloroethoxy)Methane	10.04	334	864	.08	NG/UL	82
31)	d10-Acenaphthene	15.98	668	349729	48.36	NG/UL	96
36)	2-Fluorobiphenyl	14.02	558	879886	73.54	NG/UL	94
39)	*d-10-Phenanthrene >NF085	20.45	919	509113	50.00	NG/UL	96
54)	2,4,6-Tribromophenol	18.40	804	117907	91.38	NG/UL	96
62)	d12-Chrysene	28.58	1376	364970	51.40	NG/UL	99
64)	Terphenyl-d14	25.50	1203	644718	97.71	NG/UL	94

67)	Bis(2-Ethylhexyl)Phthalate	29.15	1408	24021	3.20	NG/UL	87
69)	*d12-Perylene	32.68	1606	227883	50.00	NG/UL	96

* Compound is ISTD

FMGR : QREP,^NF086

QUANT REPORT

Operator ID: BABU Quant Rev: 6 Quant Time: 900315 23:30
Output File: ^NF086::D1 Injected at: 900315 22:42
Data File: >NF086::D6 Dilution Factor: 1.00000
Name: SF7035 90FD10S38
Misc: 031590 1.L/1.ML

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.26	178	313772	50.00	NG/UL	98
2)	2-Fluorophenol	4.71	35	463244	50.65	NG/UL	95
3)	Phenol-d5	6.58	140	350869	32.50	NG/UL	84
~~14)~~	~~N-~~Nitroso-Di-n-propylamine	8.70	259	86675	12.83	NG/UL	60
16)	d8-Naphthalene	10.66	369	949151	46.03	NG/UL	89
17)	Nitrobenzene-d5	8.70	259	647339	68.95	NG/UL	86
~~22)~~	~~Benzoic Acid~~	10.09	337	263	.08	NG/UL	84
31)	d10-Acenaphthene	15.98	668	339476	48.29	NG/UL	97
36)	2-Fluorobiphenyl	14.02	558	747041	64.22	NG/UL	93
39)	*d-10-Phenanthrene	20.45	919	473806	50.00	NG/UL	97
~~48)~~	~~Diethylphthalate~~	17.63	761	1693	.17	NG/UL	85
54)	2,4,6-Tribromophenol	18.42	805	102905	85.70	NG/UL	98
62)	d12-Chrysene	28.60	1377	330924	50.08	NG/UL	98
64)	Terphenyl-d14	25.50	1203	532831	86.77	NG/UL	94
67)	Bis(2-Ethylhexyl)Phthalate	29.16	1409	14133	2.02	NG/UL	88
69)	*d12-Perylene	32.67	1606	235686	50.00	NG/UL	95

* Compound is ISTD

FMGR : QREP,^NF087

QUANT REPORT

Operator ID: BABU Quant Rev: 6 Quant Time: 900316 00:30
Output File: ^NF087::D1 Injected at: 900315 23:42
Data File: >NF087::D6 Dilution Factor: 1.00000
Name: SF7035 90FD10S39
Misc: 031590 1.L/1.ML

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.20	175	309350	50.00	NG/UL	98
2)	2-Fluorophenol	4.64	31	488774	54.21	NG/UL	97
3)	Phenol-d5	6.53	137	364007	34.20	NG/UL	86
~~14)~~	~~N-~~Nitroso-Di-n-propylamine	8.68	258	98341	14.77	NG/UL	59
16)	d8-Naphthalene	10.64	368	928314	45.66	NG/UL	88
17)	Nitrobenzene-d5	8.68	258	725386	78.37	NG/UL	80
31)	d10-Acenaphthene	15.98	668	329517	47.54	NG/UL	98
36)	2-Fluorobiphenyl	14.02	558	851471	74.24	NG/UL	94
39)	*d-10-Phenanthrene	20.45	919	482302	50.00	NG/UL	96
54)	2,4,6-Tribromophenol	18.42	805	107984	88.35	NG/UL	94

61)	Di-n-Butylphthalate	22.67	1044	1389	.11	NG/UL	99
62)	d12-Chrysene	28.59	1377	321273	47.76	NG/UL	97
64)	Terphenyl-d14	25.50	1203	564002	90.23	NG/UL	94
67)	Bis(2-Ethylhexyl)Phthalate	29.15	1408	10963	1.54	NG/UL	90
69)	*d12-Perylene	32.67	1606	215858	50.00	NG/UL	96

* Compound is ISTD 7NF087

FMGR : QREP,^NF088

QUANT REPORT

Operator ID: BABU Quant Rev: 6 Quant Time: 900316 01:30
Output File: ^NF088::D1 Injected at: 900316 00:41
Data File: >NF088::D6 Dilution Factor: 1.00000
Name: SF7035 90FD10D39
Misc: 031590 1.L/1.ML

ID File: IDNF96::D6
Title: HP BNA STD REV E KELLY 06\23\89
Last Calibration: 900315 13:27

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	7.26	178	313768	50.00	NG/UL	97
2)	2-Fluorophenol	4.75	37	492259	53.82	NG/UL	98
3)	Phenol-d5	6.60	141	367739	34.06	NG/UL	86
5)	bis(2-Chloroethyl)Ether	6.58	140	346	.03	NG/UL	90
14)	N-Nitroso-Di-n-propylamine	8.70	259	97017	14.37	NG/UL	60
16)	d8-Naphthalene	10.66	369	923874	44.80	NG/UL	89
17)	Nitrobenzene-d5	8.70	259	714296	76.08	NG/UL	87
19)	Isophorone	9.00	276	856	.05	NG/UL	81
31)	d10-Acenaphthene	15.98	668	323260	45.98	NG/UL	99
36)	2-Fluorobiphenyl	14.02	558	853147	73.34	NG/UL	92
39)	*d-10-Phenanthrene	20.45	919	445125	50.00	NG/UL	97
48)	Diethylphthalate	17.64	761	1560	.16	NG/UL	86
54)	2,4,6-Tribromophenol	18.40	804	97952	86.83	NG/UL	97
58)	Di-n-Butylphthalate	22.65	1043	1392	.12	NG/UL	80
62)	d12-Chrysene	28.58	1376	299033	48.17	NG/UL	98
64)	Terphenyl-d14	25.48	1202	508398	88.13	NG/UL	95

A/BN BENCH SHEET

DATA SET: 7035 SAMPLE TYPE: Water EXTRACTION METHOD: Separat. funnels

SAMPLE #	SAMPLE AMOUNT	FINAL VOL.	SOLVENT EXTRACT.	DILUTION w/ [redacted] 1st	2nd	3rd	EXTR VOL.
90FD10S38	1L	1ml					
90FD10S38-MS	1L	1ml					
90FD10S38-MSD	1L	1ml					
90FD10S39	1L	1ml					
90FD10S40	1L	1ml					
90FD10S41	1L	1ml					
90FD10D39	1L	1ml					
90FD02R08	1L	1ml					
SF7035 Method Blank	1L	1ml					

DATE EXTRACTED: 03/14/90 PREP. CHEM.: AK (Weston) R.W.
DATE CONCENTRATED: 03/15/90 PREP. CHEM.: AK (Weston) J.V.
DATE RECEIVED: 3/15/90 GC/MS CHEM.: [illegible]

REMARKS: [redacted] ml of ABN (100 µg/ml) surrogate solution was added to all of the ABN samples. a 75 ml of ABN (100 µg/ml) matrix spike solution was added to the ABN-MS/MSD. 20 µl of ISTD (50 µg/ml) was added to each ABN sample upon completion before submitting to GC/MS for analysis.

Individual who performed spiking: Anthony Komsky
Individual who witness: Bob Willol

BLIST,BANF16

ce File: BANF16::D2

---

ile: MT5996

t: D6,D1
-off: 3500 blocks.

of samples: 4

```
                                          Report Data Archive
                                         Quant | | ID Archive
                                   Sample Size | | | | Output Archive
                                      Bottle | | | | | | |
Data File     Sample Name                  | | | | | | |     Quant ID
Method File   Misc Data                    | | | | | | |     Quant Output
------------- ------------------------ ----------------  ------------
NF074         DFTPP                     -1 3 N N N N N     IDNF96::D6
DFTPP         031590 HOT INJECTION         Dil=1.00000
NF075         TOXSTD 100PPM             -1 3 Y N N N N     IDNF96::D6
TOXIC6        031590                       Dil=1.00000     ^NF075::D1
NF076         TOXSTD  50PPM             -1 3 Y N N N N     IDNF96::D6
TOXIC6        031590                       Dil=1.00000     ^NF076::D1
NF077         TOXSTD  25PPM             -1 3 Y N N N N     IDNF96::D6
TOXIC6        031590                       Dil=1.00000     ^NF077::D1
```

sequence file.

BLIST,BANF17

ce File: BANF17::D2

File: MT5996

t: D6,D1
t-off: 3500 blocks.

r of samples: 22

```
                                          Report Data Archive
                                         Quant | | ID Archive
                                   Sample Size | | | | Output Archive
                                      Bottle | | | | | | |
Data File     Sample Name                  | | | | | | |     Quant ID
Method File   Misc Data                    | | | | | | |     Quant Output
------------- ------------------------ ----------------  ------------
>NF078        TOXSTD 1PPM               -1 3 Y N N N N     IDNF96::D6
TOXIC6        031590                       Dil=1.00000     ^NF078::D1
>NF079        SF7027 METHOD BLANK       -1 3 Y N N N N     IDNF96::D6
TOXIC6        031590                       Dil=1.00000     ^NF079::D1
>NF080        SF7027 90ZF16R19          -1 3 Y N N N N     IDNF96::D6
TOXIC6        031590                       Dil=1.00000     ^NF080::D1
>NF081        SF7027 90ZF16S62          -1 3 Y N N N N     IDNF96::D6
TOXIC6        031590  .5L/.5ML            Dil=1.00000     ^NF081::D1
>NF082        SF7027 90ZF16S64          -1 3 Y N N N N     IDNF96::D6
TOXIC6        031590  1.L/1.ML            Dil=1.00000     ^NF082::D1
>NF083        SF7027 90ZF16D64          -1 3 Y N N N N     IDNF96::D6
TOXIC6        031590  1.L/1.ML            Dil=1.00000     ^NF083::D1
>NF084        SF7035 METHOD BLANK       -1 3 Y N N N N     IDNF96::D6
TOXIC6        031590  1.L/1.ML            Dil=1.00000     ^NF084::D1
>NF085        SF7035 90FD02R08          -1 3 Y N N N N     IDNF96::D6
TOXIC6        031590  1.L/1.ML            Dil=1.00000     ^NF085::D1
```

```
OXIC6        031590  1.L/1.ML                Dil=1.00000      ^NF086::D1
NF087        SF7035 90FD10S39          -1 3 Y N N N N      IDNF96::D6
OXIC6        031590  1.L/1.ML                Dil=1.00000      ^NF087::D1
NF088        SF7035 90FD10D39          -1 3 Y N N N N      IDNF96::D6
OXIC6        031590  1.L/1.ML                Dil=1.00000      ^NF088::D1
NF089        SF7035 90FD10S40          -1 3 Y N N N N      IDNF96::D6
OXIC6        031590  1.L/1.ML                Dil=1.00000      ^NF089::D1
NF090        SF7035 90FD10S41          -1 3 Y N N N N      IDNF96::D6
OXIC6        031590  1.L/1.ML                Dil=1.00000      ^NF090::D1
NF091        CD07004 SED METH BLN      -1 3 Y N N N N      IDNF96::D6
OXIC6        031590                          Dil=1.00000      ^NF091::D1
NF092        SF7035 90FD10S38MS        -1 3 Y N N N N      IDNF96::D6
OXIC6        031590  1.L/1.ML                Dil=1.00000      ^NF092::D1
NF093        SF7035 90FD10S38MSD       -1 3 Y N N N N      IDNF96::D6
OXIC6        031590  1.L/1.ML                Dil=1.00000      ^NF093::D1
NF094        SF7027 90ZF16S62MS        -1 3 Y N N N N      IDNF96::D6
OXIC6        031590  1.L/1.ML                Dil=1.00000      ^NF094::D1
NF095        SF7027 90ZF16S62MSD       -1 3 Y N N N N      IDNF96::D6
OXIC6        031590  .5L/.5ML                Dil=1.00000      ^NF095::D1
NF096        SF7027 SF7035 TOXSTD      -1 3 Y N N N N      IDNF96::D6
OXIC6        031590  5PPM                    Dil=1.00000      ^NF096::D1
NF097        SF7027 SF7035 TOXSTD      -1 3 Y N N N N      IDNF96::D6
OXIC6        031590 12.5PPM                  Dil=1.00000      ^NF097::D1
NF098        SF7027 SF7035 MS/MSD      -1 3 Y N N N N      IDNF96::D6
OXIC6        031590 STD                      Dil=1.00000      ^NF098::D1
NF099        SF7027 SF7035 DFTPP       -1 3 N N N N N      IDNF96::D6
DFTPP        031590 STD                      Dil=1.00000
```

f sequence file.

BLIST,BANF18

nce File: BANF18::D2

File: MT5996

st: D6,D0
t-off: 3500 blocks.

```
                                                Report Data Archive
                                               Quant | | ID Archive
r of samples:   5                   Sample Size | | | | Output Archive
                                       Bottle | | | | | | |
Data File     Sample Name                     | | | | | | |     Quant ID
Method File   Misc Data                       | | | | | | |     Quant Output
-------------------------------------------------------------------------
>NF100        SF7027 TOX STD 50PPM      -1 3 Y N N N N      IDNF96::D6
TOXIC6        031690                          Dil=1.00000      ^NF100::D1
>NF104        SF7027 SOLVENT            -1 3 N N N N N      IDNF96::D6
DFTPP         031690   .5L/.5ML               Dil=1.00000
>NF101        SF7027 90ZF16S62REPT      -1 3 Y N N N N      IDNF96::D6
TOXIC6        031690   .5L/.5ML               Dil=1.00000      ^NF101::D1
>NF102        SF7027 90ZF16S62MSDR      -1 3 Y N N N N      IDNF96::D6
TOXIC6        031690  REPT CK IS AREAS        Dil=1.00000      ^NF102::D1
>NF103        SF7027 TOX STD 80PPM      -1 3 Y N N N N      IDNF96::D6
TOXIC6        031690                          Dil=1.00000      ^NF103::D1
```

f sequence file.

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: APR 05 1990

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

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

To: - Data User:

Attached are the results for:

CRL Data Set Numbers: SF 7035
Sample Numbers: 90FD10 $38 - $41; D39 + R08
Parameter(s): PCB/Pesticides
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 ~~Steve Parker~~, Dave Payne - the Quality Control Coordinator, at ~~353-2005~~. 886-1970

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
APR 05 1990
U.S. EPA CENTRAL REGIONAL LAB

RECEIVED BY/DATE:
Comments:

TA SET	SITE	OU/ACT.
SF 7035	Trekker Chem. Co.	TFA 302

MPLES	PARAMETER(S)
90 FD10 $38-$41; D39 + R08	PCB/Pesticides

MPLED	RECEIVED	DUE	LAB
3/8/90	3/9/90	3/30/90	CRL

PPED	DATA RECEIVED	CONTRACT

AM LEADER	SECTION CHIEF	QC COORD	DATA COORD

mments By Reviewer:

Data are acceptable for use.

TA MANAGEMENT COORDINATOR

CEIVED TRANSMITTED

CLERICAL SUPPORT

RECEIVED COMPLETED

✓ REVIEWED ( ) UNREVIEWED TEAM LEADER/DATE L. Evangelista 4/3/90

( ) REVIEWED ( ) UNREVIEWED SECTION CHIEF/DATE

( ) REVIEWED ( ) UNREVIEWED QC COORDINATOR/DATE

EVIEWED BY CONTRACT COORDINATOR/DATE

ECEIVED 4/5/90 TRANSMITTED 4/5/90 DATA MANAGEMENT COORDINATOR Buffin

ENVIRONMENTAL PROTECTION AGENCY, REGION V BASIC FORM 1A

DIVISION/BRANCH: ESD/SF Sampling Date: 3/8/90 Arrival Date: 3/9/90 Analysis Due Date: 3/30/90

Sample#/

D.U. Number: TFA302 Group# 7035 Activity#: Study: TREKKER

ALL UNITS ARE MICROGRAMS PER LITER OR MILLIGRAMS PER KILOGRAM. Sample type: WATER

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. 90FD10$38	.002U	.03U	.002U	.01U	.01U	.01U	.01U	.01U	.02U	.02U	.02U	.02U	.04U	.02U	.02U	.13U	.05U	.03U	.025U	.025U
2. 90FD10$39	.002U	.03U	.002U	.01U	.01U	.01U	.01U	.01U	.02U	.02U	.02U	.02U	.04U	.02U	.02U	.13U	.05U	.03U	.025U	.025U
3. 90FD10$40	.002U	.03U	.002U	.01U	.01U	.01U	.01U	.01U	.02U	.02U	.02U	.02U	.04U	.02U	.02U	.13U	.05U	.03U	.025U	.025U
4. 90FD10$41	.002U	.03U	.002U	.01U	.01U	.01U	.01U	.01U	.02U	.02U	.02U	.02U	.04U	.02U	.02U	.13U	.05U	.03U	.025U	.025U
5. 90FD02R08	.002U	.03U	.002U	.01U	.01U	.01U	.01U	.01U	.02U	.02U	.02U	.02U	.04U	.02U	.02U	.13U	.05U	.03U	.025U	.025U
6.																				
7.									TC Gunter											
8.									3/29/90											
9.									LE		4/3/90									
10.																				
11.																				
12.																				
13.																				

FORM 1D

ENVIRONMENTAL PROTECTION AGENCY, REGION V

DIVISION: ESD SAMPLING DATE: 3/8/90 ARRIVAL DATE: 3/9/90 ANALYSIS DUE DATE: 3/30/90

DATA SET #: SF 7035 ACTIVITY #: _____ STUDY: TREKKER

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.	90FD10$38	.24	.24	.24	.24	14	.24	
2.	90FD10$39	.24	.24	.24	.24	14	.24	
3.	90FD10$40	.24	.24	.24	.24	14	.24	
4.	90FD10$41	.24	.24	.24	.24	14	.24	
5.	90FD02R08	.24	.24	.24	.24	14	.24	
6.								
7.			1C Gunter					
8.			3/29/90					
9.			LE 4/3/90					
10.								
11.								
12.								
13.								

USEPA REGION V CRL
SF7035 TREKKER CHEM

03/16/90 16:19:14
PAGE 01

WORKLIST : PPKG0028
TEST : PPWSO

WL#	ID	REP	COMMENTS
1	LRB		
2	LF1		
3	LF2		
4	LF3		
5	LF4		
6	S0000788	01	
7	S0000789	01	
8	S0000790	01	
9	S0000791	01	
10	S0000792	01	
11	S0000793	01	

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

TT-A302

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 3/8/90 LAB ARRIVAL DATE 3/9/90 DUE DATE 3/30/90

DU NUMBER IFA[redacted] DATA SET NUMBER 7035 STUDY Trekker Chemical 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
90FD1D538	RW1/MS 5-082040-44,42,43,44		X	X		
39	RW2 5-082056-57		X	X		
40	RW3 5-082072-73		X	X		
41	RW4 5-082080-81		X	X		
✓ D39	DUP 5-082064-65		X	X		
90FD02R08	BLANK 5-082089-90		X	X		
		SHIPMENT (IS) / ~~IS NOT~~		COMPLETE		

DATE: 3/27/90

SUBJECT: SF 7035

TO: L EVANGELISTA

FROM: K GUNTER

This data set consists of six water samples that were separatory funnel extracted with 3X60 milliliters of methylene chloride. Extracts were sodium sulfate dried and concentrated to ten milliliters. The extracts were further concentrated and solvent exchanged to hexane.

All samples were analyzed on Hewlett Packard gas chromatographs and raw data was collected and processed using Nelson analytical software.

The method blank was free of contamination by parameters of interest. The pesticide spike and duplicate had recoveries ranging from 96 to 153 percent and relative percent differences from 0 to 11. The pcb spike and duplicate had recoveries of 104 and 108 and a relative percent difference of 4. Surrogate recoveries range from 159 to 178 and average 164 percent.

Endrin and ddt degradation checks were performed for both the primary and confirmatory columns, all criteria were acheived. Five point calibration curves were generated for standards A, B and aroclor 1242. Continuing calibration checks were performed for standards A and B. Single level standards were analyzed for aroclors 1248, 1254, 1260, and

1232 as well as alpha, gamma, and technical chlordane.

All samples were negative for PCB's and pesticides.

1° Column

SEQUENCE RECORDED IN E:TREK.SEQ

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	HEXANE			5.0000	1.0000	1.00	1.000
2	STD 1254 6			5.0000	1.0000	1.00	1.000
3	STD 1254 5			5.0000	1.0000	1.00	1.000
4	STD 1254 4			5.0000	1.0000	1.00	1.000
5	STD 1254 3			5.0000	1.0000	1.00	1.000
6	STD 1254 2			5.0000	1.0000	1.00	1.000
7	SPK			5.0000	1.0000	1.00	1.000
8	SPK D			5.0000	1.0000	1.00	1.000
9	S23 A			5.0000	1.0000	1.00	1.000
10	S23 B			5.0000	1.0000	1.00	1.000
11	S24 A			5.0000	1.0000	1.00	1.000
12	S24 B			5.0000	1.0000	1.00	1.000
13	HEX			5.0000	1.0000	1.00	1.000
14	STD 1242 4			5.0000	1.0000	1.00	1.000
15	STD 1248 4			5.0000	1.0000	1.00	1.000
16	STD 1260 4			5.0000	1.0000	1.00	1.000
17	STD 1232 4			5.0000	1.0000	1.00	1.000
18	S23			5.0000	1.0000	1.00	1.000
19	S24			5.0000	1.0000	1.00	1.000
20	SOLVENT BVLANK		3807769	5.0000	1.0000	1.00	1.000
21	DDT DEGRADATION		6264418	5.0000	1.0000	1.00	1.000
22	ENDRIN DEGRADATION		4089909	5.0000	1.0000	1.00	1.000
23	STD A 1		6190502	5.0000	1.0000	1.00	1.000
24	STD A 2		4527787	5.0000	1.0000	1.00	1.000
25	STD A 3		5009364	5.0000	1.0000	1.00	1.000
26	STD A 4		5350222	5.0000	1.0000	1.00	1.000
27	STD A 5		5139564	5.0000	1.0000	1.00	1.000
28	STD B 1		4021092	5.0000	1.0000	1.00	1.000
29	STD B 2		4206083	5.0000	1.0000	1.00	1.000
30	STD B 3		4198448	5.0000	1.0000	1.00	1.000
31	STD B 4		4098197	5.0000	1.0000	1.00	1.000
32	STD B 5		4372636	5.0000	1.0000	1.00	1.000
33	METHOD BLANK SF7035		4175878	5.0000	1.0000	10.00	1.000
34	90FD10S38 PEST SPK		4124548	5.0000	1.0000	10.00	1.000
35	90FD10S38 PEST SPK D		3977492	5.0000	1.0000	10.00	1.000
36	90FD10S38		4022422	5.0000	1.0000	10.00	1.000
37	90FD10S39		4025398	5.0000	1.0000	10.00	1.000
38	90FD10D39		4041926	5.0000	1.0000	10.00	1.000
39	STD A 3		4746235	5.0000	1.0000	1.00	1.000
40	STD B 3		4164737	5.0000	1.0000	1.00	1.000
41	90FD10S40		3837410	5.0000	1.0000	10.00	1.000
42	90FD10S41		4065407	5.0000	1.0000	10.00	1.000
43	90FD02R08		4079926	5.0000	1.0000	10.00	1.000
44	STD 1242 2		3863847	5.0000	1.0000	1.00	1.000
45	STD 1242 3		3866213	5.0000	1.0000	1.00	1.000
46	STD 1242 4		3785616	5.0000	1.0000	1.00	1.000
47	STD 1242 5		3906719	5.0000	1.0000	1.00	1.000
48	STD 1242 6		4005509	5.0000	1.0000	1.00	1.000
49	90FD10S38 PCB SPK		4093115	5.0000	1.0000	10.00	1.000
50	90FD10S38 PCB SPKD		3986923	5.0000	1.0000	10.00	1.000
51	ALPHA CHLORDANE		3997064	5.0000	1.0000	1.00	1.000
52	GAMMA CHLORDANE		4205204	5.0000	1.0000	1.00	1.000
53	TECH CHLORDANE 4			5.0000	1.0000	1.00	1.000
54	DDT DEGRADATION			5.0000	1.0000	1.00	1.000
55	ENDRIN DEGRADATION			5.0000	1.0000	1.00	1.000

point	value
1	3807769
2	6264418
3	4089909
4	6190502
5	4527787
6	5009364
7	5350222
8	5139564
9	4021092
10	4206083
11	4198448
12	4093197
13	4372636
14	4175878
15	4124548
16	3977492
17	4022422
18	4025398
19	4041926
20	4746235
21	4164737
22	3837410
23	4065407
24	4079926
25	3863847
26	3866213
27	3785616
28	3906719
29	4005509
30	4093115
31	3986923

DATA POINT	DATA ENTERED	DEVIATION
1	3807769	-516112.0322580645
2	6264418	1940536.967741936
3	4089909	-233972.0322580645
4	6190502	1866620.967741936
5	4527787	203905.9677419355
6	5009364	685482.9677419355
7	5350222	1026340.967741936
8	5139564	815682.9677419355
9	4021092	-302789.0322580645
10	4206083	-117798.0322580645
11	4198448	-125433.0322580645
12	4093197	-230684.0322580645
13	4372636	48754.96774193551
14	4175878	-148003.0322580645
15	4124548	-199333.0322580645
16	3977492	-346389.0322580645
17	4022422	-301459.0322580645
18	4025398	-298483.0322580645
19	4041926	-281955.0322580645
20	4746235	422353.9677419355
21	4164737	-159144.0322580645

22	3837410	-486471.0322580645
23	4065407	-258474.0322580645
24	4079926	-243955.0322580645
25	3863847	-460034.0322580645
26	3866213	-457668.0322580645
27	3785616	-538265.0322580645
28	3906719	-417162.0322580645
29	4005509	-318372.0322580645
30	4093115	-230766.0322580645
31	3986923	-336958.0322580645

****

The number of data points= 31

The sum of the data= 134040312

The mean= 4323881.032258065

The standard deviation is= 625761.7903078789

The coefficient of variation is= .1447222496732494

SEQUENCE RECORDED IN Z:7035.SEQ Confirmation Column

	SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1	SOLVENT BLANK	N:ZERO		1.0000	1.0000	1.00	1.000
2	METHOD BLANK	N:ZERO		1.0000	1.0000	10.00	1.000
3	DEG ENDRIN	N:ZERO		1.0000	1.0000	1.00	1.000
4	DEG DDT	N:ZERO		1.0000	1.0000	1.00	1.000
5	PEST STD A LEVEL 3	N:ZERO		1.0000	1.0000	1.00	1.000
6	PEST STD B LEVEL 3	N:ZERO		1.0000	1.0000	1.00	1.000
7	STD 1242 LEVEL 3	N:ZERO		1.0000	1.0000	1.00	1.000
8	PEST SPK 90ZF16S62	N:ZERO		1.0000	1.0000	10.00	1.000
9	PCB SPK	N:ZERO		1.0000	1.0000	10.00	1.000
10	PCB SPK DUP	N:ZERO		1.0000	1.0000	10.00	1.000
11	90FZ16S62	N:ZERO		1.0000	1.0000	10.00	1.000
12	90FZ16S64	N:ZERO		1.0000	1.0000	10.00	1.000
13	90FZ16D64	N:ZERO		1.0000	1.0000	10.00	1.000
14	90FZ16R19	N:ZERO		1.0000	1.0000	10.00	1.000
15	90FZ16R19	N:ZERO		1.0000	1.0000	10.00	1.000
16	HEXANE	N:ZERO		1.0000	1.0000	10.00	1.000
17	DDT DEGRADATION	N:ZERO		1.0000	1.0000	10.00	1.000
18	ENDRIN DEGRADATION	N:ZERO		1.0000	1.0000	10.00	1.000
19	STD A 3	N:ZERO		1.0000	1.0000	10.00	1.000
20	STD A 3	N:ZERO		1.0000	1.0000	10.00	1.000
21	METHOD BLANK	N:ZERO		1.0000	1.0000	10.00	1.000
22	90FD10S38 PEST SPK	N:ZERO		1.0000	1.0000	10.00	1.000
23	90FD10S38 PEST SPK D	N:ZERO		1.0000	1.0000	10.00	1.000
24	90FD10S38	N:ZERO		1.0000	1.0000	10.00	1.000
25	90FD10S39	N:ZERO		1.0000	1.0000	10.00	1.000
26	STD 1242 2	N:ZERO		1.0000	1.0000	1.00	1.000
27	90FD10S38 PCB SPK	N:ZERO		1.0000	1.0000	1.00	1.000
28	GLITCH	N:ZERO		1.0000	1.0000	1.00	1.000
29	90FD10S38 PCB SPK D	N:ZERO		1.0000	1.0000	10.00	1.000
30	90FD10D39	N:ZERO		1.0000	1.0000	10.00	1.000
31	90FD10S40	N:ZERO		1.0000	1.0000	10.00	1.000
32	STD 1248 4	N:ZERO		1.0000	1.0000	1.00	1.000
33	90FD10S41	N:ZERO		1.0000	1.0000	10.00	1.000
34	90FD02R08	N:ZERO		1.0000	1.0000	10.00	1.000
35	STD 1254 4	N:ZERO		1.0000	1.0000	1.00	1.000
36	STD 1260 4	N:ZERO		1.0000	1.0000	1.00	1.000
37	STD T CHLOR	N:ZERO		1.0000	1.0000	1.00	1.000
38	STD GAMMA CHLOR	N:ZERO		1.0000	1.0000	1.00	1.000
39	STD ALPHA CHLOR	N:ZERO		1.0000	1.0000	1.00	1.000

ESAT CONTRACT TID NO: 03-12

TASK NO: 2514

ENVIRONMENTAL SAMPLE EXTRACT CUSTODY TRANSFER FORM

Sample extraction was completed on 03/15, 1990 for:

DATASET NO: 7035 SITE NAME: Trekker Chemical Co.

PARAMETER : Pest/PCB

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

SAMPLE NUMBERS: 90FD10S38, S39, S40, S41, D39, 90FD02R08 NUMBER OF SAMPLES: 6

ESAT APPROVALS:

Anthony Komsky 03/15/90 (ANALYST DATE)

Dwi-Ann Lim 3/16/90 (TEAM LEADER DATE)

(QC COORDINATOR DATE)

[illegible] 3/16/90 (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 03/15/90 (DELIVERED BY DATE)

E. S. Evangelista 3/16/90 (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.

APPROVAL

ESAT DPO — DATE IN
Jay Thompson — 3-12-90
ESAT DPO — DATE OUT

EPA, REGION V
CENTRAL REGIONAL LABORATORY
WESTON/ESAT ANALYSIS

PCB'S/PESTICIDES
SAMPLE PREP.

APPROVAL

ETM — DATE OUT
[illegible signature] 3/12/90
ETM — DATE IN

TID # 03-12
START DATE ~~06-08~~ 3/12/90
DUE DATE 3/15/90
EST. HRS. REQUIRED FOR ANALYSIS

SMO CASE #	DATA SET #	SITE NAME AND CODE	CONTRACT LAB	# OF SAMPLES	DATE ASSIGNED	DATE COMPLETED	TIME SPENT	EST. HRS.	TECHNICAL QUALITY	COMPLIANCE WITH SCHEDULE	TASK NO.
	SF 7035	Trekker Chemical Co.		6	3/12	03/15/90	12	12			2514
		Total hours spended					-14				

PCB/PEST EXTRACTION

DATA SET(S) SF7035 DATE EXTRACTED: 03/14/90
SAMPLE TYPE(S) Water DATE CONCENTRATED: 03/15/90
EXTRACTION SYSTEM Separat. funnels DATE COMPLETED: 03/15/90
SOLVENT SYSTEM CH_2Cl_2 VOLUMES USED 3X60

SAMPLE #	SAMPLE AMOUNT	CONC. EXTRACT	DILUTIONS 1ST	2ND	3RD	FINAL VOL	INSTDS MRX/OTHER
90FD10S38	1L	10µl				10ml	MRX
90FD10S38 Pest-MS	1L	10ml					
90FD10S38 Pest-MSD	1L	10ml					
90FD10S38 PCB-MS	1L	10ml					
90FD10S38 PCB-MSD	1L	10ml					
90FD10S39	1L	10ml					
90FD10S40	1L	10ml					
90FD10S41	1L	10ml					
90FD10D39	1L	10ml					
90FD02R08	1L	10ml					
SF7035 Method blank	1L	10ml					

: PREPARATION DATE : VOLUME

*MATRIX SPIKE SOLUTION: 1ml of pesticide matrix spike solution was added to the Pest-MS/Pest-MSD.
*MATRIX SPIKE SOLUTION: 1ml of Aroclor 1242 @ 3µg/ml was added to the PCB-MS/PCB-MSD sample.
*SURROGATES: 1ml of DBC (0.5µg/ml) solution was added to all of the above Pesticide/PCB samples.

PREP. CHEMIST AK. R.W. (Weston) ANALYST K Gunter

A1.....N13

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

CENTRAL REGIONAL LABORATORY REGION V CHICAGO IL.

ENDRIN AND DDT DEGRADATION

DATA SET: SF 7035 DATA SET NAME TREKKER SF 7035

DATE: 3/20/90 COLUMN TYPE MIXED GC # 2

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

CALIBRATI	DATE ANALYZED	TIME ANALYZED	AREA OF END ALD	AREA OF END KET	AREA OF ENDRIN	% DEG
INITIAL	3/20/90	3:25	1317527	898797	17262600	11
CONT	3/21/90	2:08	2398038	2201325	27982348	14
						ERR
						ERR
						ERR
						ERR

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

CALIBRATI	DATE ANALYZED	TIME ANALYZED	AREA OF DDE	AREA OF DDD	AREA OF DDT	% DEG
INITIAL	3/20/90	2:44	477031	1935412	37139672	6
CONT	3/21/90	1:24	553733	796287	20551326	6

```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 10:31:18 Version 4.1 **********************
* Sample Name: ENDRIN DEGRADATION                Data File: E:QP22        *
* Date: 03-20-1990 03:25:28 Method: K:1PESTA  03-21-1990 10:25:56  #  59  *
* Interface: 0   Cycle#:  22   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
***********************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                  *
*            Detector 0: ECD QUANT          Detector 1:                  *
* Misc. Information: TREKKER SF 7035                  PE PCBs            *
***********************************************************************
Starting Delay:    1.50                    Ending retention time:    45.00
Area reject:        0                      One sample per   1.000 sec.
Amount injected:        5.00               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	3.37	LINDANE	0.0000	0.0104%	67807	1763	38.5	1	3	12	0	1.9481E-10
4	4.13	HEPTACHLOR	0.0000	0.0115%	130525	4647	28.1	1	4	12	0	1.1195E-10
6	6.78	HEPTACHLOR EPOXIDE	-0.0008	-0.6498%	29232	1722	17.0	1	6	12	0	-2.8210E-08
8	13.23	ENDRIN	0.1245	98.1107%	17262660	587267	29.4	3	8	12	0	7.2120E-09
9	16.48	ENDOSULFAN II	-0.0008	-0.6603%	3187	140	22.8	4	9	12	0	-2.6291E-07
10	19.40	DDT	0.0015	1.1994%	163921	2718	60.3	2	10	12	0	9.2852E-09
12	28.82	ISTD	1.0000	0.0000%	4089909	59695	68.5	1	12	12	0	2.4450E-07
13	34.58	DIBUTYLCHLOR	0.0025	1.9781%	898797	11715	76.7	1	13	12	0	2.7928E-09

TOTAL AMOUNT = 0.1269

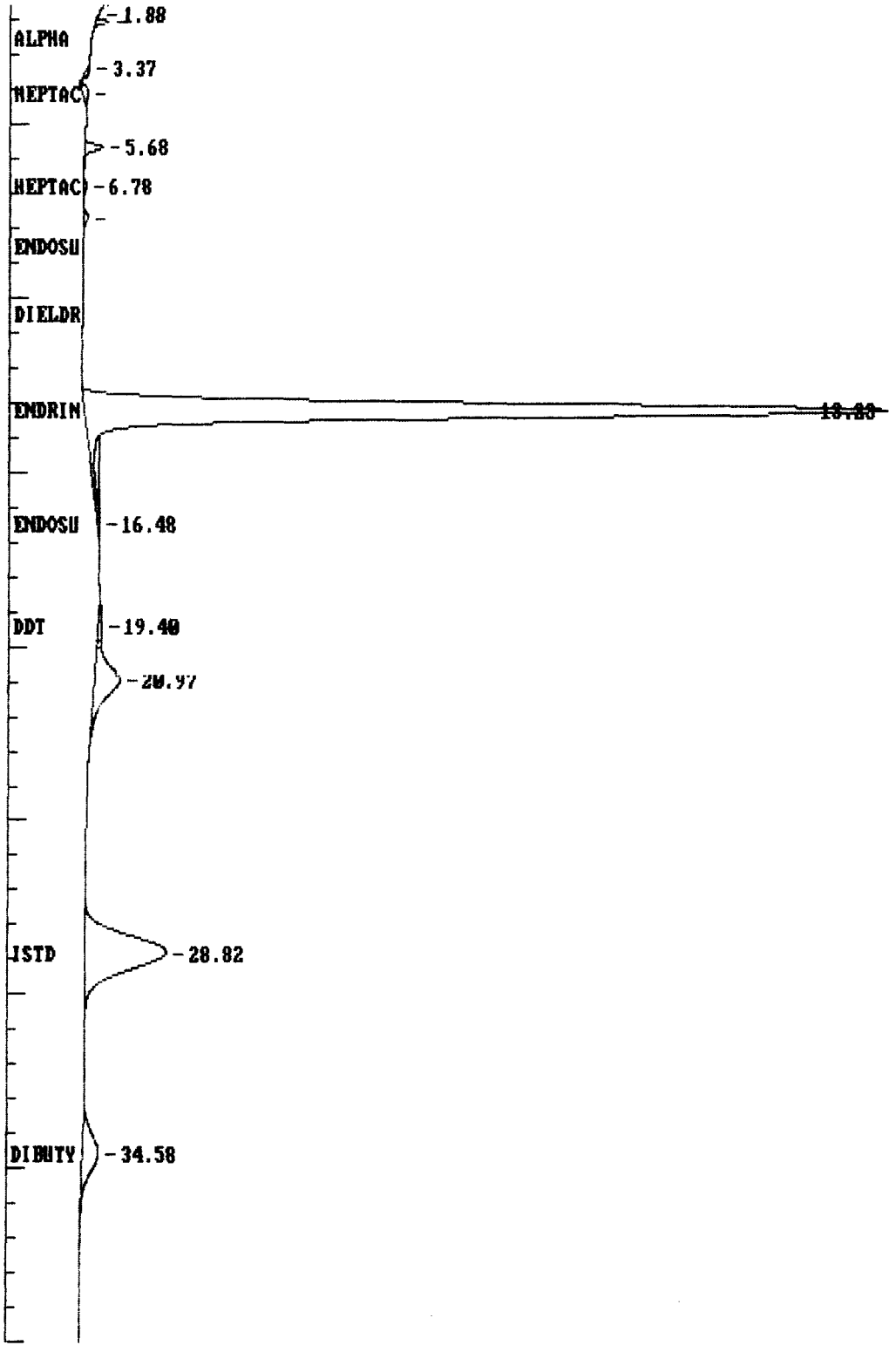
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALPHA BHC	2.55	ALPHA BHC
ALDRIN	4.99	ALDRIN
ENDOSULFAN I	8.55	ENDOSULFAN I
DIELDRIN	10.46	DIELDRIN
METHOXYCHLOR	34.58	METHOXYCHLOR

End day

$$\frac{\overset{(EA)}{1317527} + \overset{(EK)}{898797}}{\underset{(EA)}{1317527} + \underset{(EK)}{898797} + \underset{(E)}{17262600}} = \frac{2216324}{19478984} \times 100 = 11\%$$

Data File = E:QP22.PTS Printed on 03-21-1990 at 10:31:41
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 96594 uv High Value: 687695 uv Scale factor: 1.0



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

********** 03-21-1990 12:49:16 Version 4.1 **********

* Sample Name: ENDRIN DEGRADATION Data File: E:QP22 *
* Date: 03-20-1990 03:25:28 Method: K:1PESTB 03-21-1990 12:44:36 # 32 *
* Interface: 0 Cycle#: 22 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER SF 7035 PE PCBs *

****

Starting Delay: 1.50 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

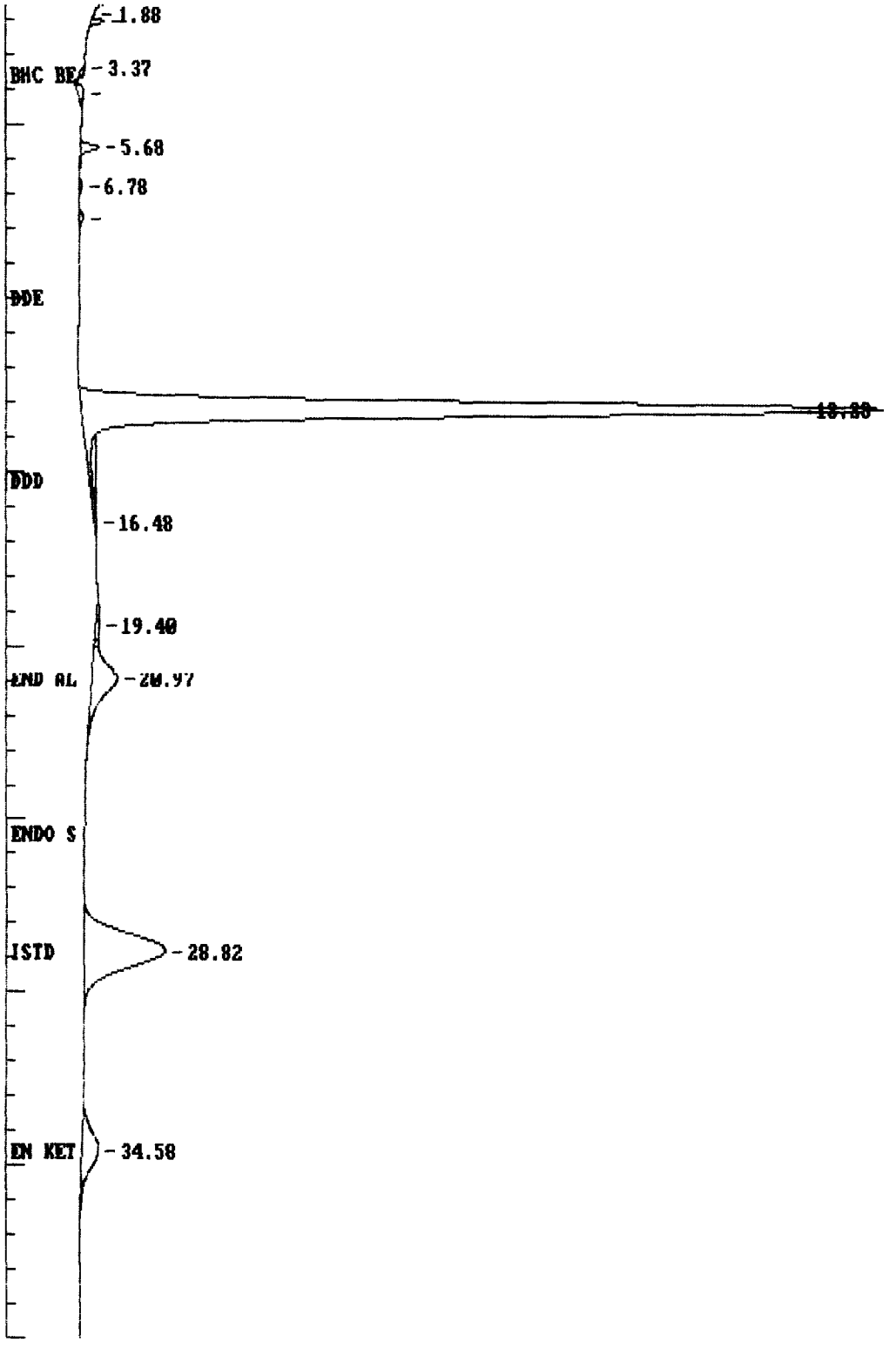
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	4.13	BHC DELTA	0.0006	4.4867%	130525	4647	28.1	1	4	12	0	4.3142E-09
11	20.97	END ALDEHYDE	0.0069	54.8881%	1317527	18666	70.6	2	11	12	0	5.2286E-09
12	28.82	ISTD	1.0000	0.0000%	4089909	59695	68.5	1	12	12	0	2.4450E-07
13	34.58	EN KETONE	0.0051	40.6252%	898797	11715	76.7	1	13	12	0	5.6729E-09

TOTAL AMOUNT = 0.0126

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
BHC BETA	3.57	BHC BETA
DDE	9.99	DDE
DDD	15.29	DDD
ENDO SULFATE	25.44	ENDO SULFATE

Data File = E:QP22.PTS Printed on 03-21-1990 at 12:49:35
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 96594 uv High Value: 687695 uv Scale factor: 1.0



********* AREA PERCENT REPORT *********

```
******************** 03-21-1990 16:09:21 Version 4.1 *********************
* Sample Name: ENDRIN DEGRADATION                Data File: A:QF55        *
* Date: 03-21-1990 02:08:05 Method: E:ZERO  03-21-1990 00:43:25  #  4     *
* Interface: 0   Cycle#:  2    Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100            *
***************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT MIXED PHASE    *
*              Solvent Description: ULTRA HIGH PURITY NITRIGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*             Detector 0: ECD QUANT           Detector 1:                 *
* Misc. Information: TREKKER                                              *
***************************************************************************
Starting Delay:   1.00                          Run Time:   40.00
```

Pk No.	Ret Time	Peak Area	Area %	B L	Peak Ht.	Normalized %	Area/ Height
1	1.50	10339	0.0264	1	2185	0.037	4.7
2	3.50	126663	0.3232	1	11468	0.453	11.0
3	5.03	290443	0.7411	1	19308	1.038	15.0
4	6.18	26130	0.0667	2	1003	0.093	26.0
5	6.98	18471	0.0471	2	800	0.066	23.1
6	8.17	6441	0.0164	1	396	0.023	16.3
7	9.08	2552	0.0065	1	167	0.009	15.2
8	11.13	548	0.0014	1	82	0.002	6.7
9	12.47	27982348	71.3970	3	863393	100.000	32.4
10	15.30	105771	0.2699	4	1835	0.378	57.6
11	17.97	585	0.0015	1	83	0.002	7.0
12	20.00	2398038	6.1186	1	39957	8.570	60.0
13	23.58	78469	0.2002	1	1735	0.280	45.2
14	27.67	5944518	15.1674	1	87265	21.244	68.1
15	33.27	2201325	5.6167	1	27887	7.867	78.9

Total Area: 39192636 Area Reject: 0 One sample per 1.000 sec.

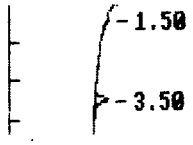
Endrin dry

$$\frac{\overset{(EA)}{2398038} + \overset{(EK)}{2201325}}{2398038 + 2201325 + 27982348} = \frac{4599363}{32581711} \times 100$$

(EA) (EK) (E)

$= 14\%$

Data File = A:QP55.PTS Printed on 03-21-1990 at 16:10:03
Start time: 1.00 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 108491 uv High Value: 975500 uv Scale factor: 1.0



```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 10:30:03 Version 4.1 **********************
* Sample Name: DDT DEGRADATION                    Data File: E:QP21        *
* Date: 03-20-1990 02:44:15 Method: K:1PESTA  03-21-1990 10:25:56  #  59  *
* Interface: 0   Cycle#:  21   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD QUANT            Detector 1:                 *
* Misc. Information: TREKKER SF 7035                    PE PCBs           *
*************************************************************************
Starting Delay:    1.50                      Ending retention time:    45.00
Area reject:         0                       One sample per    1.000 sec.
Amount injected:        5.00                 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	AREA/ HEIGHT	HEIGHT BL		REF PEAK	INT.STD. PEAK	% DELTA RET TIME	CONC/AREA
3	3.35	LINDANE	-0.0001	-0.0743%	63052	1881	33.5	1	3	17	0	-1.6476E-09
4	4.12	HEPTACHLOR	-0.0003	-0.1845%	109348	4876	22.4	2	4	17	0	-2.3594E-09
6	4.92	ALDRIN	-0.0005	-0.3327%	18863	1365	13.8	1	6	17	0	-2.4663E-08
8	6.75	HEPTACHLOR EPOXIDE	-0.0007	-0.4928%	88294	5077	17.4	2	8	17	0	-7.8044E-09
11	9.38	ENDOSULFAN I	-0.0006	-0.4515%	23592	1235	19.1	2	11	17	0	-2.6757E-08
13	14.38	ENDRIN	0.0011	0.7773%	247915	6213	39.9	2	11	17	3.151	4.3837E-09
14	15.77	ENDOSULFAN II	0.0046	3.2859%	1935412	25753	75.2	2	14	17	0	2.3738E-09
15	18.92	DDT	0.1388	99.2611%	37139672	877957	42.3	2	15	17	0	3.7368E-09
17	28.77	ISTD	1.0000	0.0000%	6264418	90639	69.1	1	17	17	0	1.5963E-07
18	34.13	DIBUTYLCHLOR	-0.0025	-1.7884%	258096	3493	73.9	1	18	17	0	-9.6884E-09

TOTAL AMOUNT = 0.1398

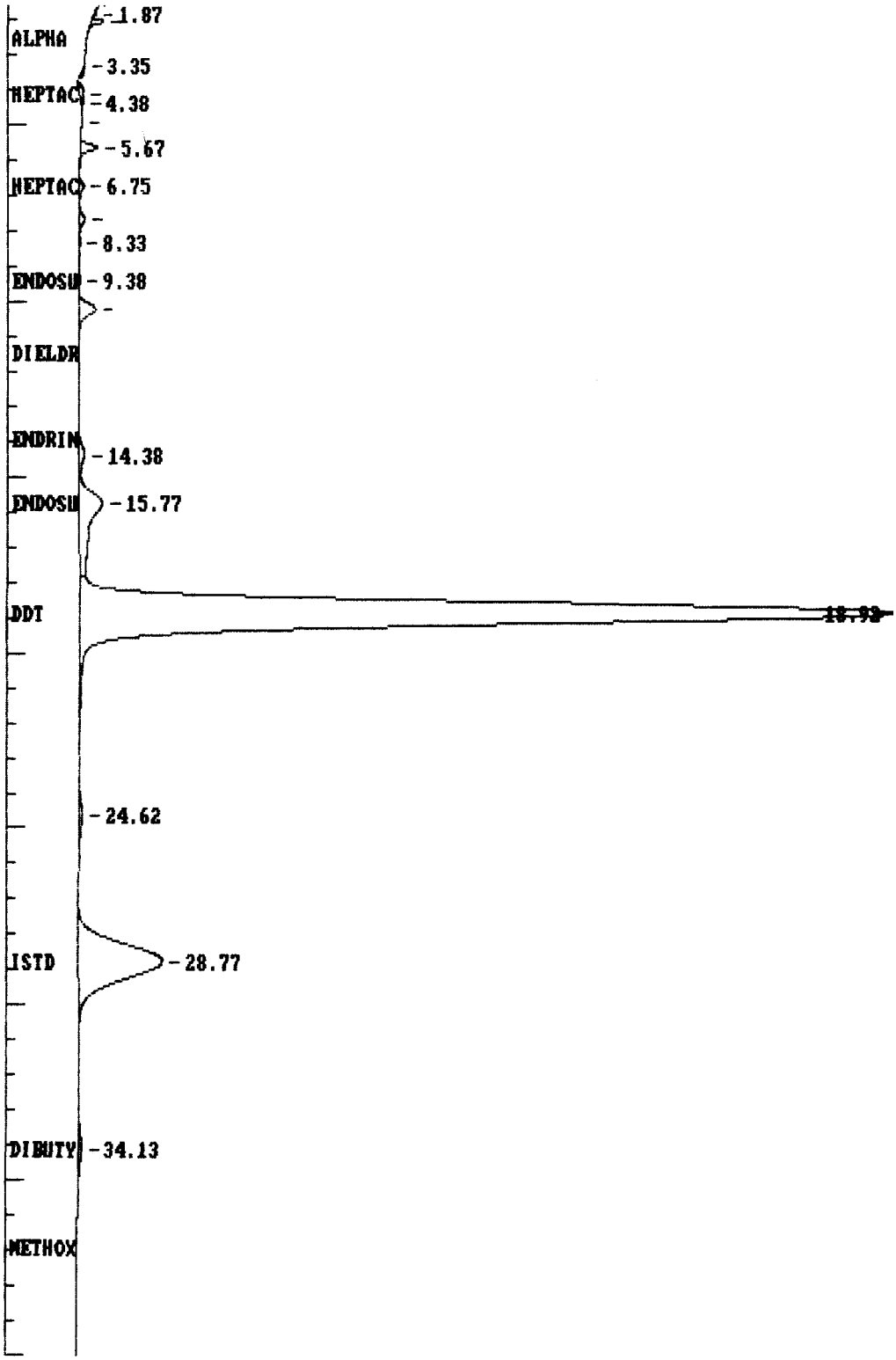
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALPHA BHC	2.55	ALPHA BHC
DIELDRIN	11.48	DIELDRIN
METHOXYCHLOR	36.90	METHOXYCHLOR

$$\frac{\overset{(DDE)}{477031} + \overset{(DDD)}{1935412}}{\underset{(DDE)}{477031} + \underset{(DDD)}{1935412} + 37139672} = \frac{2412443}{39552115} \times 100$$

$$= 6\%$$

Data File = E:QP21.PTS Printed on 03-21-1990 at 10:30:26
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 94725 uv High Value: 975478 uv Scale factor: 1.0



```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 12:48:05 Version 4.1 **********************
* Sample Name: DDT DEGRADATION                    Data File: E:QP21        *
* Date: 03-20-1990 02:44:15 Method: K:1PESTB  03-21-1990 12:44:36  #  32  *
* Interface: 0   Cycle#:  21   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
***********************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*             Detector 0: ECD QUANT           Detector 1:                 *
* Misc. Information: TREKKER SF 7035                    PE PCBs           *
***********************************************************************
Starting Delay:    1.50                    Ending retention time:    45.00
Area reject:        0                      One sample per    1.000 sec.
Amount injected:        5.00               Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

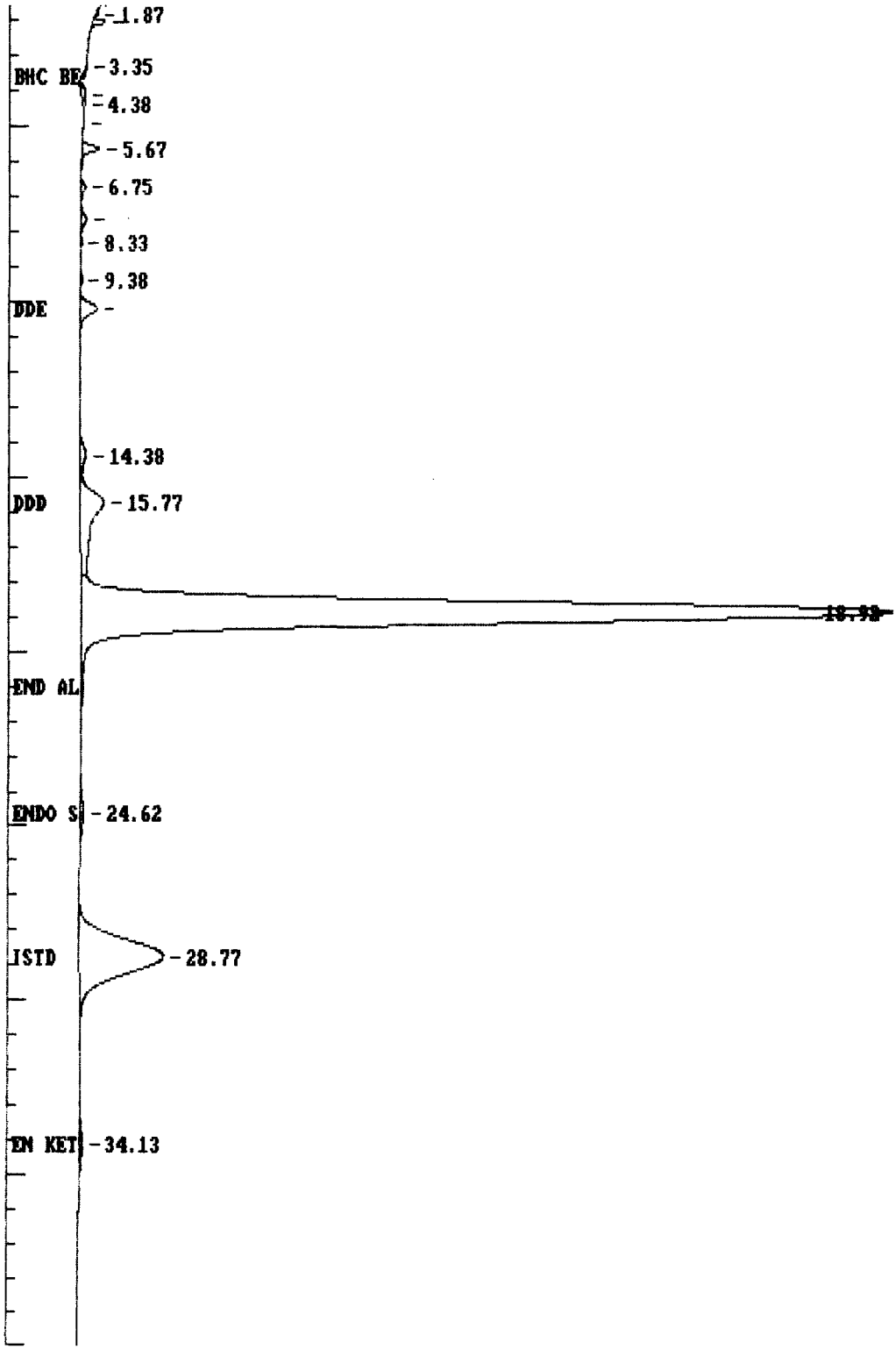
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	4.12	BHC DELTA	0.0003	3.2684%	109348	4876	22.4	2	4	17	0	2.8029E-09
12	10.23	DDE	0.0013	13.4140%	477031	18117	26.3	1	12	17	0	2.6369E-09
14	15.77	DDD	0.0068	72.4630%	1935412	25753	75.2	2	14	17	0	3.5110E-09
16	24.62	ENDO SULFATE	0.0015	16.4541%	193350	3502	55.2	1	16	17	0	7.9802E-09
17	28.77	ISTD	1.0000	0.0000%	6264418	90639	69.1	1	17	17	0	1.5963E-07
18	34.13	EN KETONE	-0.0005	-5.5995%	258096	3493	73.9	1	18	17	0	-2.0345E-09

TOTAL AMOUNT = 0.0094

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
BHC BETA	3.57	BHC BETA
END ALDEHYDE	21.04	END ALDEHYDE

Data File = E:QP21.PTS Printed on 03-21-1990 at 12:48:23
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 94725 uv High Value: 975478 uv Scale factor: 1.0



********* AREA PERCENT REPORT *********

```
******************** 03-21-1990 16:03:28 Version 4.1 *********************
* Sample Name: DDT DEGRADATION                    Data File: A:QF54        *
* Date: 03-21-1990 01:24:23 Method: A:                                     *
* Interface: 0   Cycle#:  1    Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 100             *
****************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT MIXED PHASE     *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD QUANT            Detector 1:                  *
* Misc. Information: TREKKER                                               *
****************************************************************************
Starting Delay:    1.00                          Run Time:    20.00
```

Pk No.	Ret Time	Peak Area	Area %	B L	Peak Ht.	Normalized %	Area/ Height
1	1.52	15748	0.0573	1	2631	0.077	6.0
2	2.07	10542	0.0383	1	1194	0.051	8.8
3	2.77	4505	0.0164	1	347	0.022	13.0
4	3.52	94071	0.3421	1	8323	0.458	11.3
5	5.03	214027	0.7783	1	15674	1.041	13.7
6	6.13	11486	0.0418	1	935	0.056	12.3
7	7.00	13780	0.0501	1	864	0.067	15.9
8	7.60	21003	0.0764	1	960	0.102	21.9
9	8.68	13267	0.0482	1	763	0.065	17.4
10	9.50	553733	2.0137	1	22941	2.694	24.1
11	13.53	132449	0.4817	1	3990	0.644	33.2
12	14.88	796287	2.8958	1	24168	3.875	32.9
13	17.97	20551326	74.7373	1	509070	100.000	40.4
14	23.53	262082	0.9531	1	4533	1.275	57.8
15	27.58	4801031	17.4595	1	70937	23.361	67.7
16	32.80	2739	0.0100	1	78	0.013	35.0

Total Area: 27498076 Area Reject: 0 One sample per 1.000 sec.

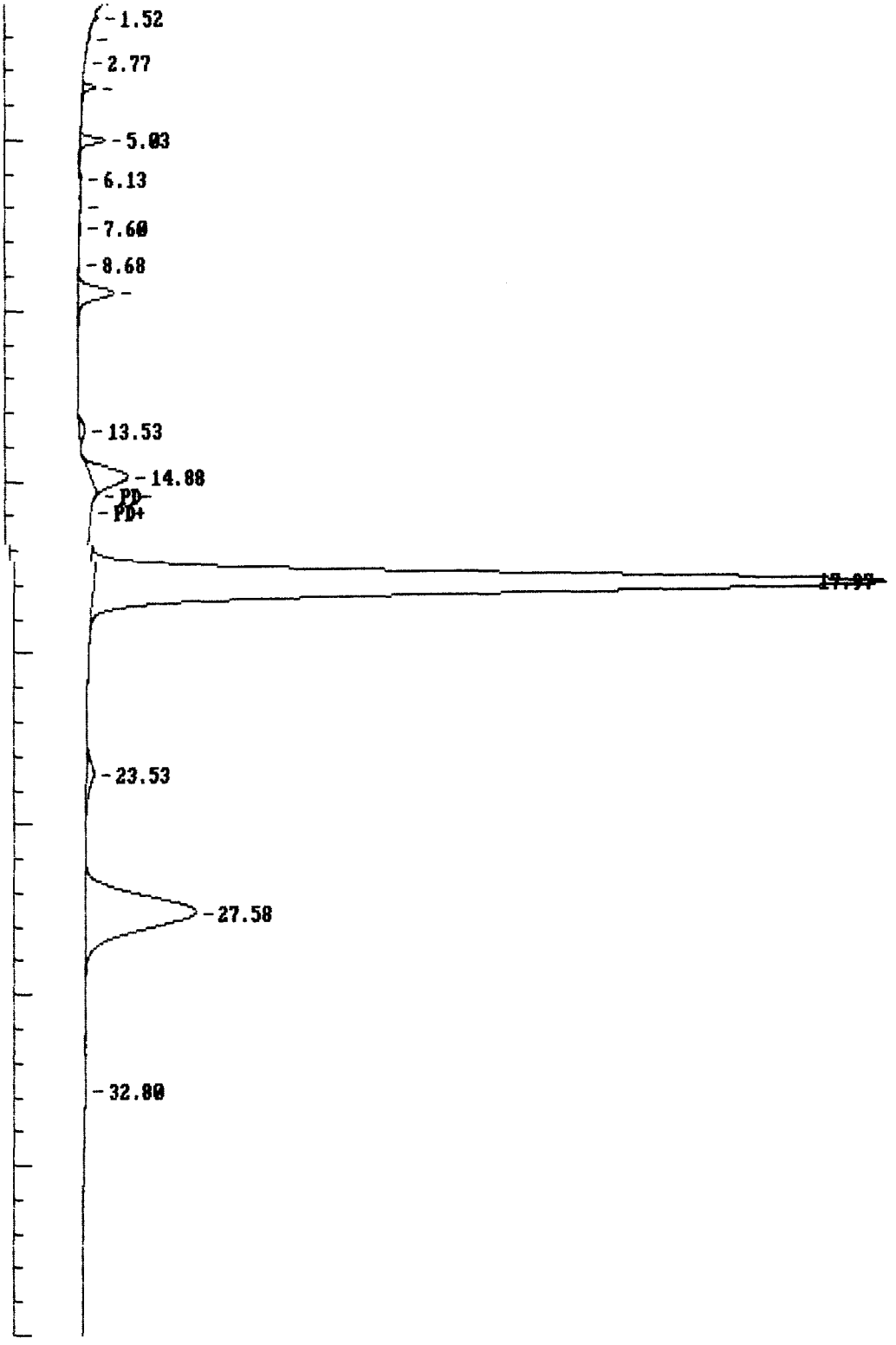
DDT degradation

$$\frac{553733 + 796287}{553733 + 796287 + 20551326} \times 100 = \frac{1350020}{21901346} \times 100$$

(DDT)

$= 6\%$

Data File = A:QP54.PTS Printed on 03-21-1990 at 16:07:25
Start time: 1.00 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 106711 uv High Value: 623010 uv Scale factor: 1.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

CENTRAL REGIONAL LABORATORY REGION V CHICAGO IL.

ENDRIN AND DDT DEGRADATION

DATA SET: SF 7035 DATA SET NAME TREKKER SF 7035

A1.....N13

DATE: 3/20/90 COLUMN TYPE SINGLE GC # 1

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	TIME ANALYZED	AREA OF END ALD	AREA OF END KET	AREA OF ENDRIN	% DEG
INITIAL	3/20/90	1:54	0	137482	22671518	1
						ERR
						ERR
						ERR
						ERR
						ERR

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

CALIBRATI	DATE ANALYZED	TIME ANALYZED	AREA OF DDE	AREA OF DDD	AREA OF DDT	% DEG
INITIAL	3/20/90	1:18	246607	779331	19170398	5

```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-30-1990 10:26:05 Version 4.1 **********************
* Sample Name: DEG DDT                          Data File: A:2FT17        *
* Date: 03-20-1990 01:18:01 Method: A:CONFA  03-21-1990 08:43:31  #  31   *
* Interface: 0   Cycle#:  17   Operator AK  Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 5  Area Threshold: 1000           *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE         *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                         *
*            Detector 0: ECD CONF            Detector 1:                  *
* Misc. Information:                                                      *
*************************************************************************
Starting Delay:   1.50                    Ending retention time:   40.00
Area reject:    30000                     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
2	4.10		0.0000	0.0123%	672395	44134	15.2	1		8		2.3394E-11
3	5.63	HEPTA EPOXIDE	0.0003	0.2021%	69532	2823	24.6	1	3	8	0	3.7121E-09
4	8.10	DIELDRIN	0.0081	6.3177%	2466067	116190	21.2	1	4	8	0	3.2713E-09
5	10.20		0.0000	0.0143%	779331	19723	39.5	1		8		2.3394E-11
6	13.17	DDT	0.1185	92.7878%	19170398	603342	31.8	1	6	8	0	6.1805E-09
7	20.43		0.0003	0.2292%	12512481	52051	240.4	2		8		2.3394E-11
8	24.28	INSTD MIREX	1.0000	0.0000%	4274647	67155	63.7	2	8	8	0	2.3394E-07
9	27.30	DIBUTYLCHLORENDATE	0.0006	0.4366%	118756	1463	81.2	1	9	8	0	4.6941E-09

TOTAL AMOUNT = 0.1277

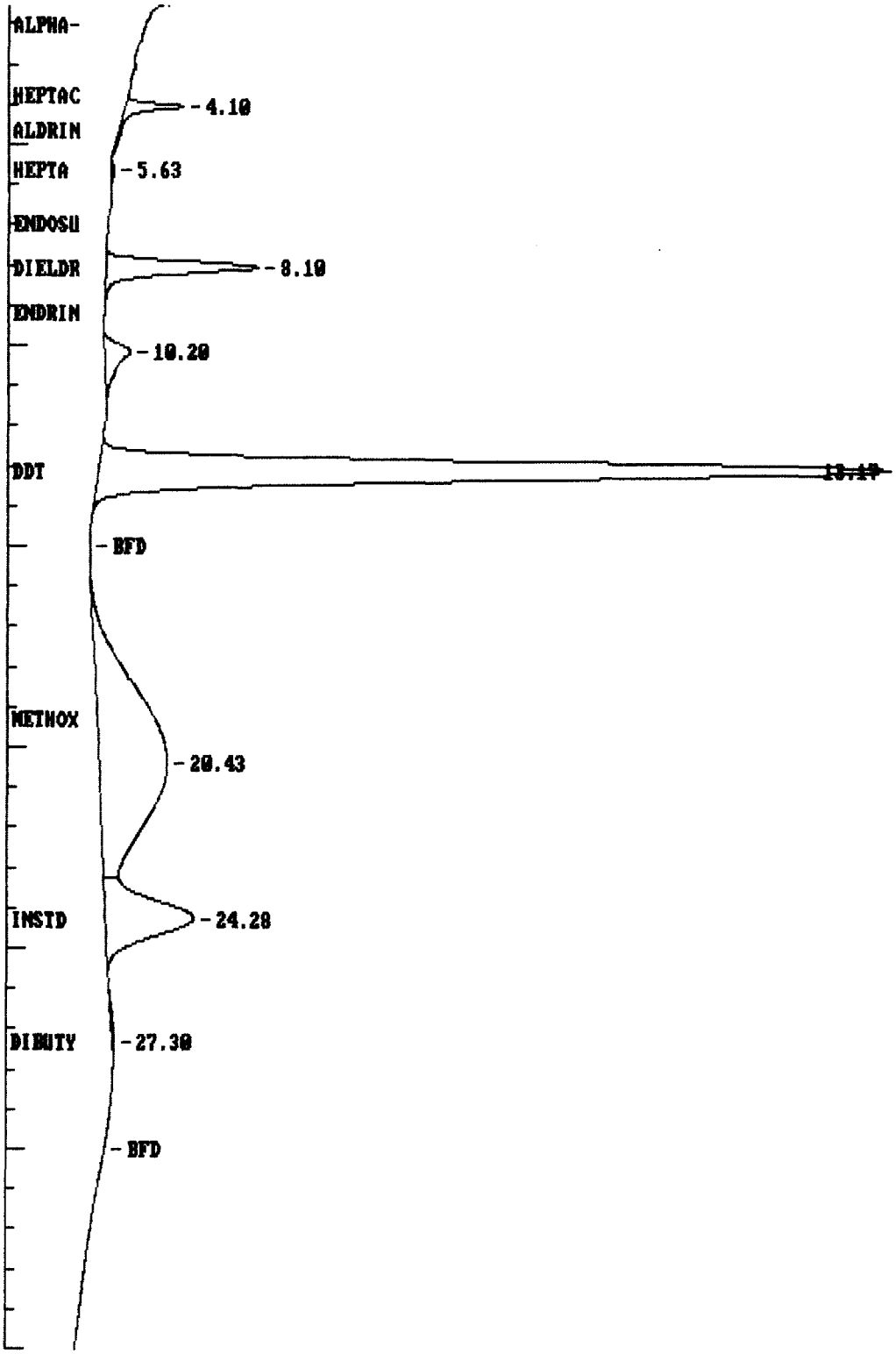
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALPHA-BHC	2.05	ALPHA-BHC
LINDANE	2.40	LINDANE
HEPTACHLOR	3.78	HEPTACHLOR
ALDRIN	4.67	ALDRIN
ENDOSULFAN I	6.98	ENDOSULFAN I
ENDRIN+ENDO II	9.18	ENDRIN+ENDO II
METHOXYCHLOR	19.33	METHOXYCHLOR

DDT deg

$$\frac{\underset{(DDE)}{246607} + \underset{(DDD)}{779331}}{\underset{(DDE)}{246607} + \underset{(DDD)}{779331} + \underset{(DDT)}{19170398}} = \frac{1025938}{20196336} \times 100 = 5\%$$

Data File = A:2FT17.PTS Printed on 03-30-1990 at 10:26:28
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 114196 uv High Value: 733168 uv Scale factor: 1.0



```
******   INTERNAL STANDARD TABLE   ******
******************** 03-30-1990 10:27:26 Version 4.1 **********************
* Sample Name: DEG DDT                          Data File: A:2FT17        *
* Date: 03-20-1990 01:18:01 Method: A:CONFB  03-21-1990 08:43:48  #  23   *
* Interface: 0   Cycle#:  17   Operator AK  Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 5  Area Threshold: 1000           *
***********************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE         *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                         *
*            Detector 0: ECD CONF            Detector 1:                  *
* Misc. Information:                                                      *
***********************************************************************
Starting Delay:   1.50                      Ending retention time:   40.00
Area reject:    30000                       One sample per   1.000 sec.
Amount injected:        1.00                Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

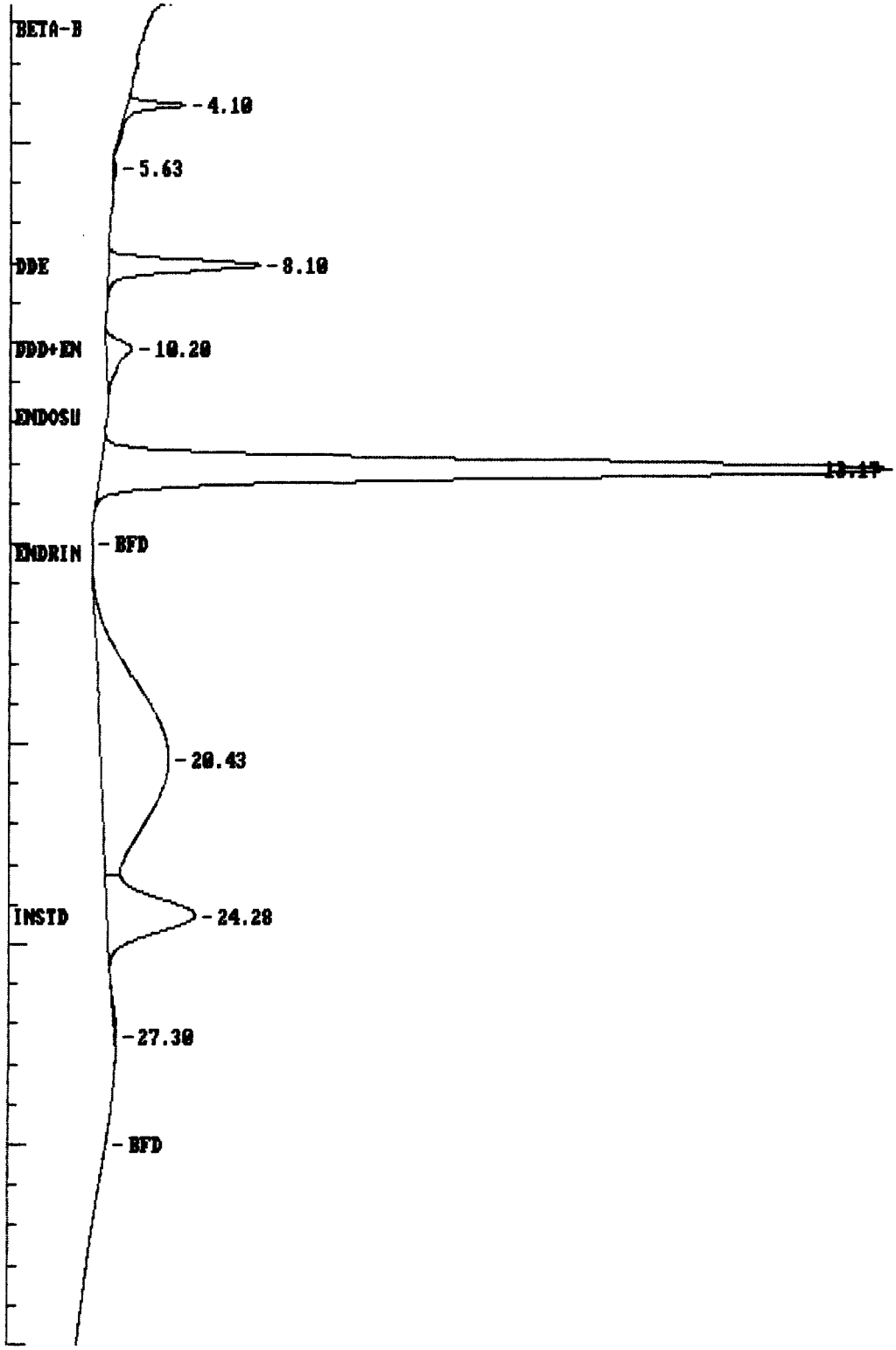
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug\L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	4.10		0.0000	0.0925%	672395	44134	15.2	1		8		2.3394E-11
3	5.63		0.0000	0.0096%	69532	2823	24.6	1		8		2.3394E-11
4	8.10	DDE	0.0112	65.9711%	2466067	116190	21.2	1	4	8	0	4.5476E-09
5	10.20	DDD+ENDRINALDE	0.0050	29.5505%	779331	19723	39.5	1	5	8	0	6.4459E-09
6	13.17		0.0004	2.6381%	19170398	603342	31.8	1		8		2.3394E-11
7	20.43		0.0003	1.7219%	12512481	52051	240.4	2		8		2.3394E-11
8	24.28	INSTD MIREX	1.0000	0.0000%	4274647	67155	63.7	2	8	8	0	2.3394E-07
9	27.30		0.0000	0.0163%	118756	1463	81.2	1		8		2.3394E-11

TOTAL AMOUNT = 0.0170

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
BETA-BHC	2.18	BETA-BHC
DELTA-BHC	2.45	DELTA-BHC
ENDOSULFAN SO4	11.87	ENDOSULFAN SO4
ENDRIN KETONE	15.24	ENDRIN KETONE

Data File = A:2FT17.PTS Printed on 03-30-1990 at 10:27:48
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 114196 uv High Value: 733168 uv Scale factor: 1.0



```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-30-1990 11:05:16 Version 4.1 **********************
* Sample Name: DEG ENDRIN                          Data File: A:2FT18       *
* Date: 03-20-1990 01:54:28 Method: A:CONFA 03-21-1990 08:43:31  #  31     *
* Interface: 0   Cycle#:  18   Operator AK  Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: .001  Area Threshold: 100          *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE         *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                         *
*            Detector 0: ECD CONF            Detector 1:                  *
* Misc. Information:                                                      *
*************************************************************************
Starting Delay:    1.50                    Ending retention time:    35.00
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
1	1.87		0.0000	0.0005%	22234	2917	7.6	1		13		1.8398E-11
2	2.42	LINDANE	0.0001	0.0667%	17043	1531	11.1	1	2	13	0	2.9762E-09
3	3.12		0.0000	0.0008%	33000	2943	11.2	1		13		1.8398E-11
4	4.10		0.0000	0.0098%	406530	26696	15.2	1		13		1.8398E-11
5	5.83	HEPTA EPOXIDE	0.0002	0.2548%	66387	1883	35.3	2	5	13	0	2.9194E-09
6	6.57		0.0000	0.0009%	37263	985	37.8	2		13		1.8398E-11
7	6.97	ENDOSULFAN I	0.0001	0.1102%	27531	860	32.0	3	7	13	0	3.0447E-09
8	8.02	DIELDRIN	0.0000	0.0396%	11717	103	113.5	4	8	13	0	2.5727E-09
9	9.15	ENDRIN+ENDO II	0.0742	97.5968%	22671518	872133	26.0	3	9	13	0	3.2740E-09
10	9.58		0.0000	0.0320%	1321735	6493	203.6	4		13		1.8398E-11
11	13.05	DDT	0.0011	1.4636%	229006	4652	49.2	2	11	13	0	4.8607E-09
12	15.02		0.0000	0.0033%	137482	3187	43.1	2		13		1.8398E-11
13	24.32	INSTD MIREX	1.0000	0.0000%	5435325	75658	71.8	2	13	13	0	1.8398E-07
14	29.80		0.0003	0.4209%	17397632	45290	384.1	2		13		1.8398E-11

TOTAL AMOUNT = 0.0761

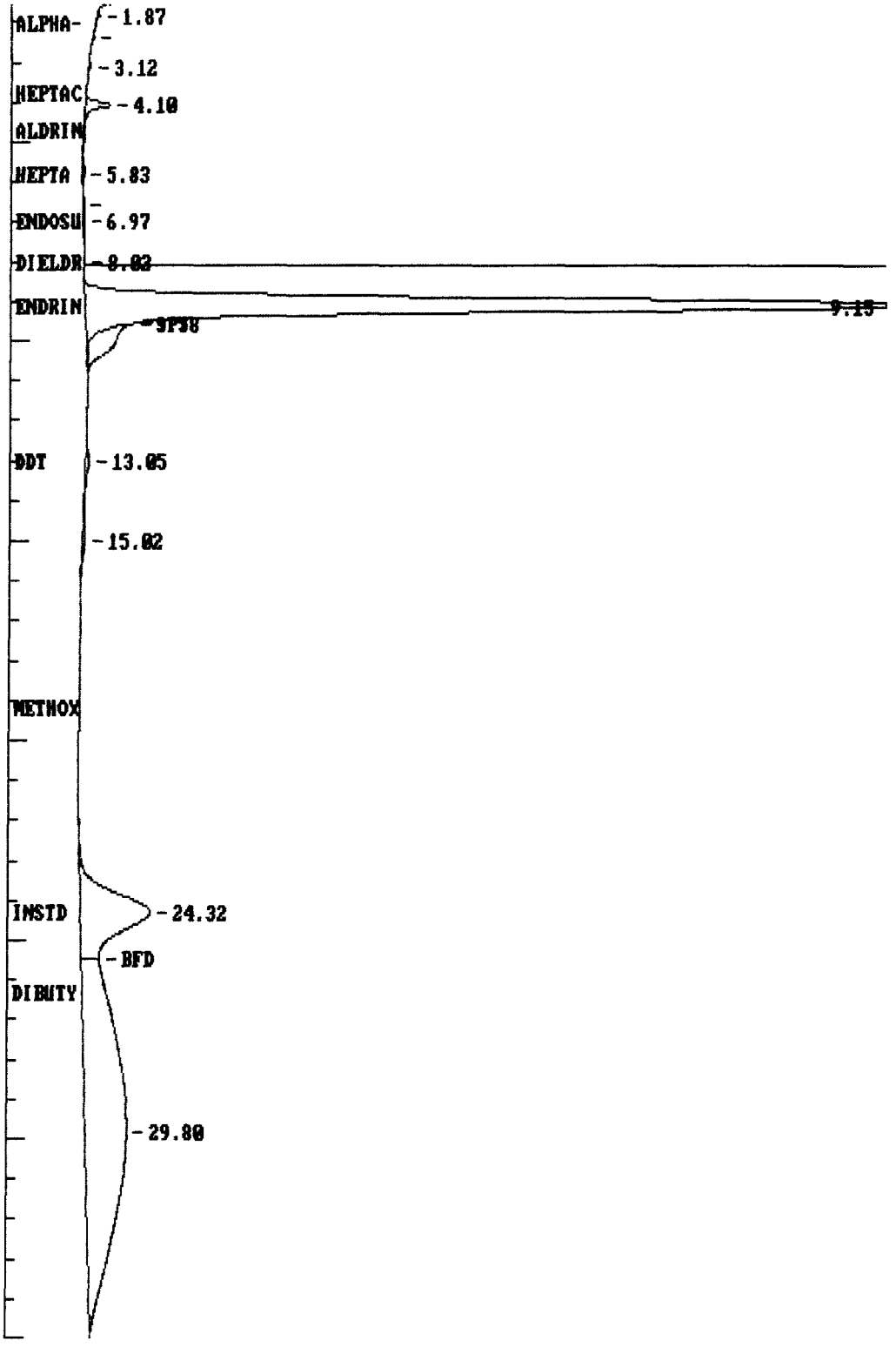
PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALPHA-BHC	2.05	ALPHA-BHC
HEPTACHLOR	3.81	HEPTACHLOR
ALDRIN	4.70	ALDRIN
METHOXYCHLOR	19.16	METHOXYCHLOR
DIBUTYLCHLORENDATE	26.32	DIBUTYLCHLORENDATE

ENDRIN DEG

$$\frac{\overset{(EA)}{0} + \overset{(EK)}{137482}}{137482 + \underset{(E)}{22671518}} = \frac{137482}{22809000} \times 100 = 0.6\%$$

Data File = A:2FT18.PTS Printed on 03-30-1990 at 11:07:09
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 104885 uv High Value: 982704 uv Scale factor: 1.0



```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-30-1990 11:08:08 Version 4.1 **********************
* Sample Name: DEG ENDRIN                          Data File: A:2FT18       *
* Date: 03-20-1990 01:54:28 Method: A:CONFB 03-21-1990 08:43:48  #  23     *
* Interface: 0   Cycle#:  18   Operator AK  Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: .001  Area Threshold: 100          *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE          *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                          *
*            Detector 0: ECD CONF            Detector 1:                   *
* Misc. Information:                                                       *
*************************************************************************
Starting Delay:   1.50                      Ending retention time:   35.00
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
```

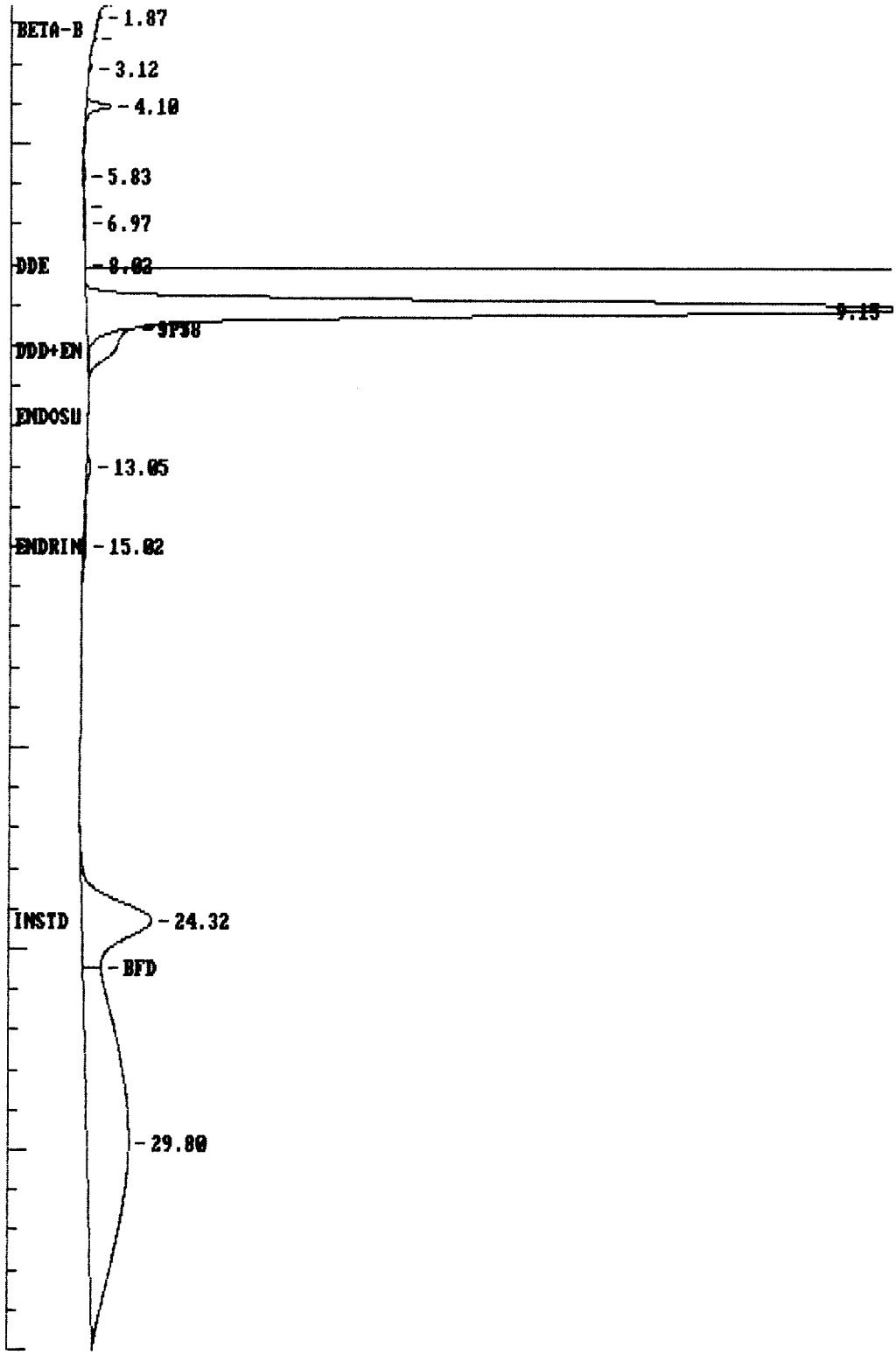
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug\L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
1	1.87		0.0000	0.0223%	22234	2917	7.6	1		13		1.8398E-11
2	2.42	DELTA-BHC	0.0001	5.6570%	17043	1531	11.1	1	2	13	0	6.1014E-09
3	3.12		0.0000	0.0330%	33000	2943	11.2	1		13		1.8398E-11
4	4.10		0.0000	0.4069%	406530	26696	15.2	1		13		1.8398E-11
5	5.83		0.0000	0.0664%	66387	1883	35.3	2		13		1.8398E-11
6	6.57		0.0000	0.0373%	37263	985	37.8	2		13		1.8398E-11
7	6.97		0.0000	0.0276%	27531	860	32.0	3		13		1.8398E-11
8	8.02	DDE	0.0000	2.2798%	11717	103	113.5	4	8	13	0	3.5765E-09
9	9.15		0.0004	22.6916%	22671518	872133	26.0	3		13		1.8398E-11
10	9.58		0.0000	1.3229%	1321735	6493	203.6	4		13		1.8398E-11
11	13.05		0.0000	0.2292%	229006	4652	49.2	2		13		1.8398E-11
12	15.02	ENDRIN KETONE	0.0009	49.8130%	137482	3187	43.1	2	12	13	0	6.6602E-09
13	24.32	INSTD MIREX	1.0000	0.0000%	5435325	75658	71.8	2	13	13	0	1.8398E-07
14	29.80		0.0003	17.4130%	17397632	45290	384.1	2		13		1.8398E-11

TOTAL AMOUNT = 0.0018

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
BETA-BHC	2.18	BETA-BHC
DDD+ENDRINALDE	10.11	DDD+ENDRINALDE
ENDOSULFAN SO4	11.77	ENDOSULFAN SO4

Data File = A:2FT18.PTS Printed on 03-30-1990 at 11:09:48
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 104885 uv High Value: 982704 uv Scale factor: 1.0



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

CENTRAL REGIONAL LABORATORY REGION V CHICAGO IL.

DBC SURROGATE RECOVERY

DATA SET NO. SF 7035

SAMPLE NAME	AMT ADDED	AMT FOUND	PERCENT RECOVERY
METHOD BLANK	0.50	0.80	159.30
S38 PEST	0.50	0.82	164.14
S83 PEST SPK D	0.50	0.88	175.26
PCB SPK S83	0.50	0.80	159.44
PCB SPK DUP S83	0.50	0.80	159.32
90FD10S38	0.50	0.89	178.36
90FD10S39	0.50	0.81	162.60
90FD10S40	0.50	0.83	166.54
90FD10S41	0.50	0.80	160.68
90FD10D39	0.50	0.79	158.74
90FD02R08	0.50	0.81	162.16

Form 2A

AQC DATA

DATE:
DATA SET: SF 7035

BLANK DATA:

	CONC. OF AROCLOR (PPB)				CONC. OF PEST (PPB)
	1242	1248	1254	1260	
METHOD Blank	.24	.24	.24	.24	none detected

SPIKE DATA:

	COMPOUND:	CONC. (ug) of PEST/PCB				% RECOVERY	
		SPIKE ADDED	SPIKE RESULT	SPIKE DUP. RESULT	RPD	SPIKE RECOVERY	SPIKE DUPLICATE RECOVERY
PESTICIDES:	LINDANE	.060	.069	.076	9	116	127
	HEPTACHLOR	.060	.058	.064	11	96	107
	ALDRIN	.100	.105	.113	7	105	113
	ENDOSULFAN-1	.120	.165	.177	7	137	147
	DIELDRIN	.120	.153	.162	6	127	135
	ENDRIN	.220	.328	.336	4	146	153
	P,P'-DDT	.300	.374	.374	0	125	125
	P,P'-METHOXYCHLOR	.350	.51	.52	2	146	149
	DIBUTYL CHLORENDATE	.500	.821	.876	7	164	175
PCB:	AROCLOR 1242	3.00	3.11	3.25	4	104	108

COMMENTS: Recoveries for 4 late eluting compounds are out of control high; do not negatively impact the data quality. JE

11/86
JFP

A1.....T3

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

DATASET: SF 7035 DATE: 3/21/90

SPIKES:	ADDED	SPIKE RESULT	DUP RESULT	RPD	SPIKE REC.	DUP REC
LINDANE	0.060	0.069	0.076	-9	116	127
HEPTACHLOR	0.060	0.058	0.064	-11	96	107
ALDRIN	0.100	0.105	0.113	-7	105	113
ENDOSULFAN 1	0.120	0.165	0.177	-7	137	147
DIELDRIN	0.120	0.153	0.162	-6	127	135
ENDRIN	0.220	0.322 *	0.336	-4	146	153
DDT 4 4'	0.300	0.374	0.374	0	125	125
METHOXYCHLOR	0.350	0.510	0.520	-2	146	149
DBC	0.500	0.821	0.876	-7	164	175
PCB 1242	3.000	3.11 ~~0.000~~	3.25 ~~0.000~~	4 ~~ERR~~	104 ~~0~~	108 ~~0~~

```
******   INTERNAL STANDARD TABLE   ******
******************** 03-21-1990 10:38:39 Version 4.1 **********************
* Sample Name: 90FD10S38 PEST SPK                Data File: E:QP34        *
* Date: 03-20-1990 12:02:13 Method: K:1PESTA  03-21-1990 10:25:56  #  59  *
* Interface: 0   Cycle#:  34   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*             Detector 0: ECD QUANT           Detector 1:                 *
* Misc. Information: TREKKER SF 7035                    PE PCBs           *
*************************************************************************
Starting Delay:    1.50                    Ending retention time:    45.00
Area reject:        0                      One sample per    1.000 sec.
Amount injected:        5.00               Dilution factor:        10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

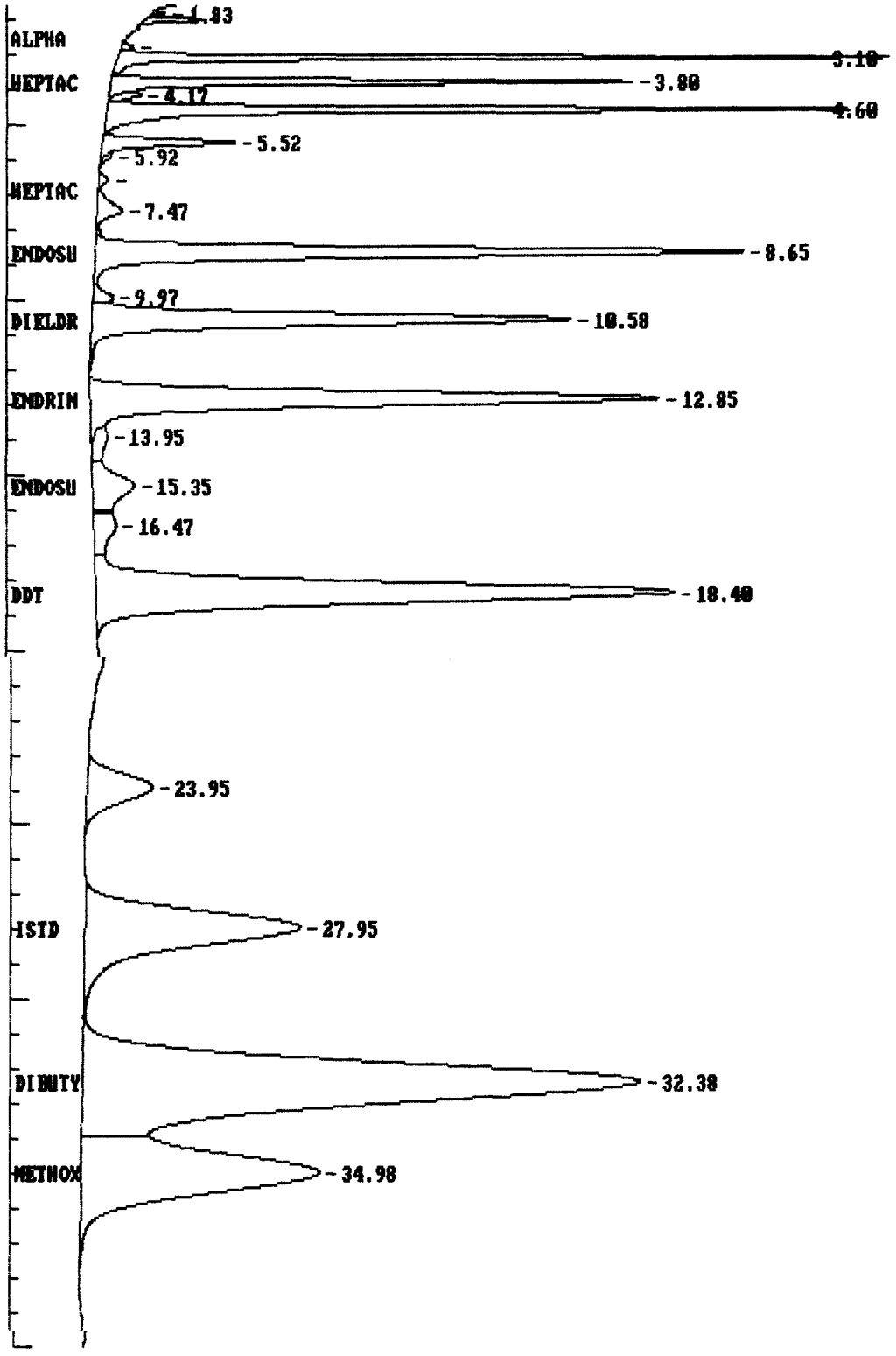
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	3.10	LINDANE	0.0694	2.6815%	1657009	208678	7.9	2	4	21	0	4.1864E-08
5	3.80	HEPTACHLOR	0.0575	2.2233%	1386617	141090	9.8	3	5	21	0	4.1479E-08
7	4.60	ALDRIN	0.1048	4.0494%	2435728	200595	12.1	2	7	21	0	4.3007E-08
10	6.58	HEPTACHLOR EPOXIDE	-0.0075	-0.2908%	44749	2703	16.6	2	7	21	-4.253	-1.6813E-07
12	8.65	ENDOSULFAN I	0.1649	6.3733%	3561374	175110	20.3	2	12	21	0	4.6295E-08
14	10.58	DIELDRIN	0.1527	5.9017%	3248197	129732	25.0	2	14	21	0	4.7003E-08
15	12.85	ENDRIN	0.3222	12.4563%	4514336	154013	29.3	3	15	21	0	7.1380E-08
17	15.35	ENDOSULFAN II	0.0182	0.7051%	626092	11480	54.5	2	17	21	0	2.9134E-08
19	18.40	DDT	0.3740	14.4570%	6513609	156360	41.7	2	19	21	0	5.7417E-08
21	27.95	ISTD	1.0000	0.0000%	4124548	58348	70.7	2	21	21	0	2.4245E-07
22	32.38	DIBUTYLCHLOR	0.8207	31.7240%	12599921	150707	83.6	2	22	21	0	6.5133E-08
23	34.98	METHOXYCHLOR	0.5101	19.7193%	5270511	64392	81.9	2	23	21	0	9.6788E-08

TOTAL AMOUNT = 2.5869

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALPHA BHC	2.55	ALPHA BHC

Data File = E:QP34.PTS Printed on 03-21-1990 at 10:39:04
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 105506 uv High Value: 325376 uv Scale factor: 1.0



INTERNAL STANDARD TABLE

********** 03-21-1990 10:53:42 Version 4.1 **********

* Sample Name: 90FD10538 PEST SPK Data File: W:2FT2% *
* Date: 03-20-1990 04:20:14 Method: W:CONFA 03-21-1990 08:43:31 # 31 *
* Interface: 0 Cycle#: 22 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 5 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: SINGLE PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C *
* Detector 0: ECD CONF Detector 1: *
* Misc. Information: TREKKER SF 7035 *

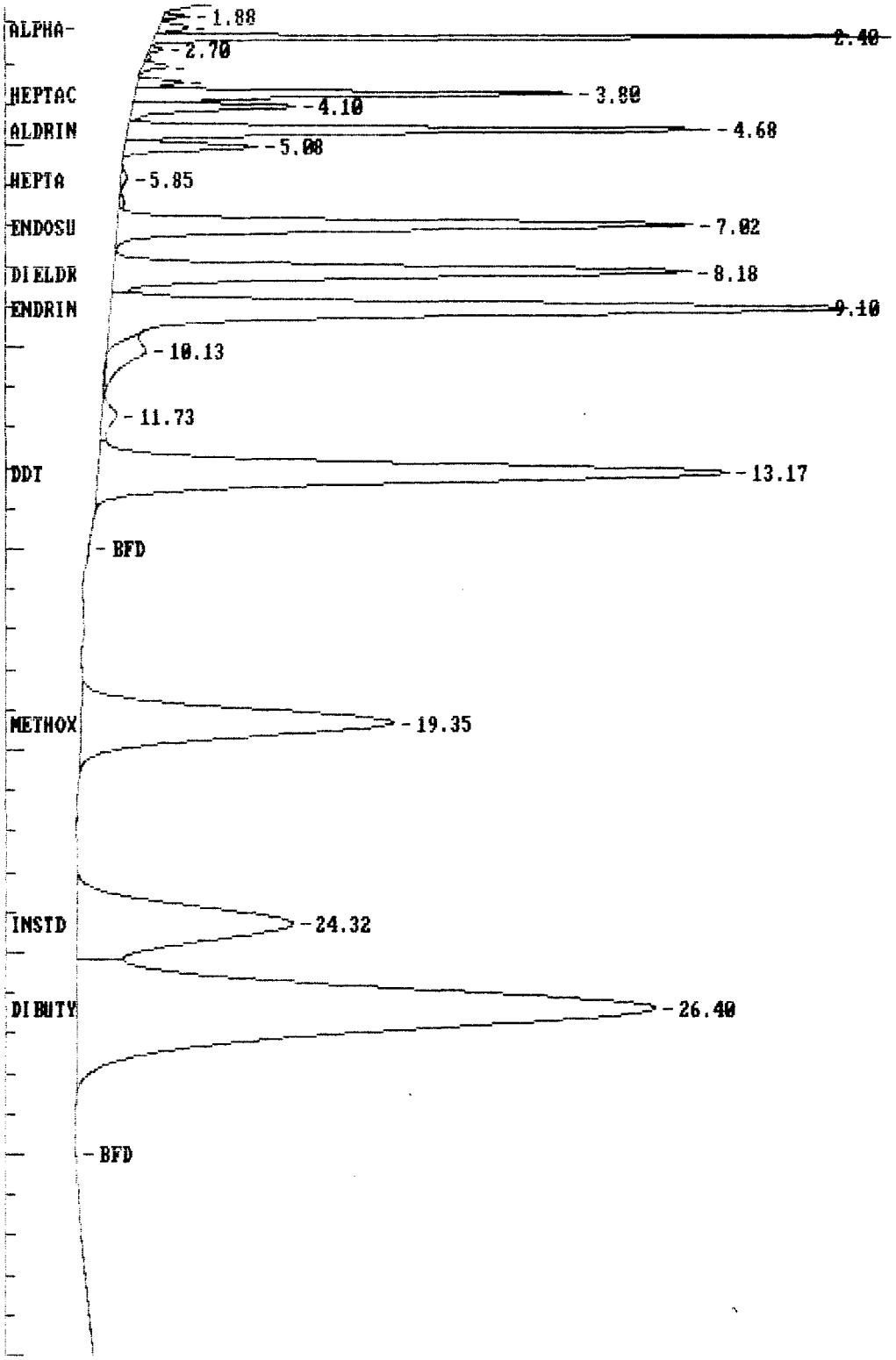
****

Starting Delay: 1.50 Ending retention time: 40.00
Area reject: 30000 One sample per 1.000 sec.
Amount injected: 5.00 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
1	1.88		0.0000	0.0005%	46402	8211	5.7	2		21		2.4200E-10
2	2.13	ALPHA-BHC	0.0035	0.1610%	101362	9125	11.1	2	2	21	0	3.4375E-08
3	2.40	LINDANE	0.0563	2.6006%	1437394	230433	6.2	2	3	21	0	3.9147E-08
4	2.70		0.0000	0.0003%	30881	4366	7.1	2		21		2.4200E-10
6	3.12		0.0000	0.0009%	82915	7964	10.4	2		21		2.4200E-10
7	3.52		0.0000	0.0016%	138605	14609	9.5	2		21		2.4200E-10
8	3.80	HEPTACHLOR	0.0441	2.0371%	1402103	136965	10.2	2	8	21	0	3.1437E-08
9	4.10		0.0002	0.0072%	641104	51029	12.6	2		21		2.4200E-10
10	4.68	ALDRIN	0.0868	4.0105%	2167438	182026	11.9	2	10	21	0	4.0036E-08
11	5.08		0.0001	0.0058%	518350	41601	12.5	2		21		2.4200E-10
12	5.85	HEPTA EPOXIDE	0.0015	0.0676%	38072	1866	20.4	2	12	21	0	3.8400E-08
14	7.02	ENDOSULFAN I	0.1286	5.9458%	3212414	179950	17.9	2	14	21	0	4.0048E-08
15	8.18	DIELDRIN	0.1260	5.8218%	3722506	180421	20.6	2	15	21	0	3.3840E-08
16	9.10	ENDRIN+ENDO II	0.2365	10.9300%	5491663	230301	23.8	3	16	21	0	4.3064E-08
17	10.13		0.0001	0.0053%	476561	11780	40.5	4		21		2.4200E-10
18	11.73		0.0000	0.0019%	172729	4545	38.0	2		21		2.4200E-10
19	13.17	DDT	0.4147	19.1681%	6487019	197476	32.8	2	19	21	0	6.3934E-08
20	19.35	METHOXYCHLOR	0.4059	18.7575%	4650903	97701	47.6	1	20	21	0	8.7265E-08
21	24.32	INSTD MIREX	1.0000	0.0000%	4132289	67492	61.2	2	21	21	0	2.4200E-07
22	26.40	DIBUTYLCHLORENDATE	0.6594	30.4763%	13579953	180870	75.1	2	22	21	0	4.8559E-08

TOTAL AMOUNT = 2.1637

Data File = W:2FT22.PTS Printed on 03-21-1990 at 10:54:15
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 100995 uv High Value: 356260 uv Scale factor: 1.0



```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 10:40:11 Version 4.1 **********************
* Sample Name: 90FD10S38 PEST SPK D              Data File: E:QP35        *
* Date: 03-20-1990 12:20:58 Method: K:1PESTA  03-21-1990 10:25:56  #  59  *
* Interface: 0   Cycle#:  35   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
***************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information: TREKKER SF 7035                    PE PCBs           *
***************************************************************************
Starting Delay:    1.50                    Ending retention time:    45.00
Area reject:        0                      One sample per   1.000 sec.
Amount injected:        5.00               Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

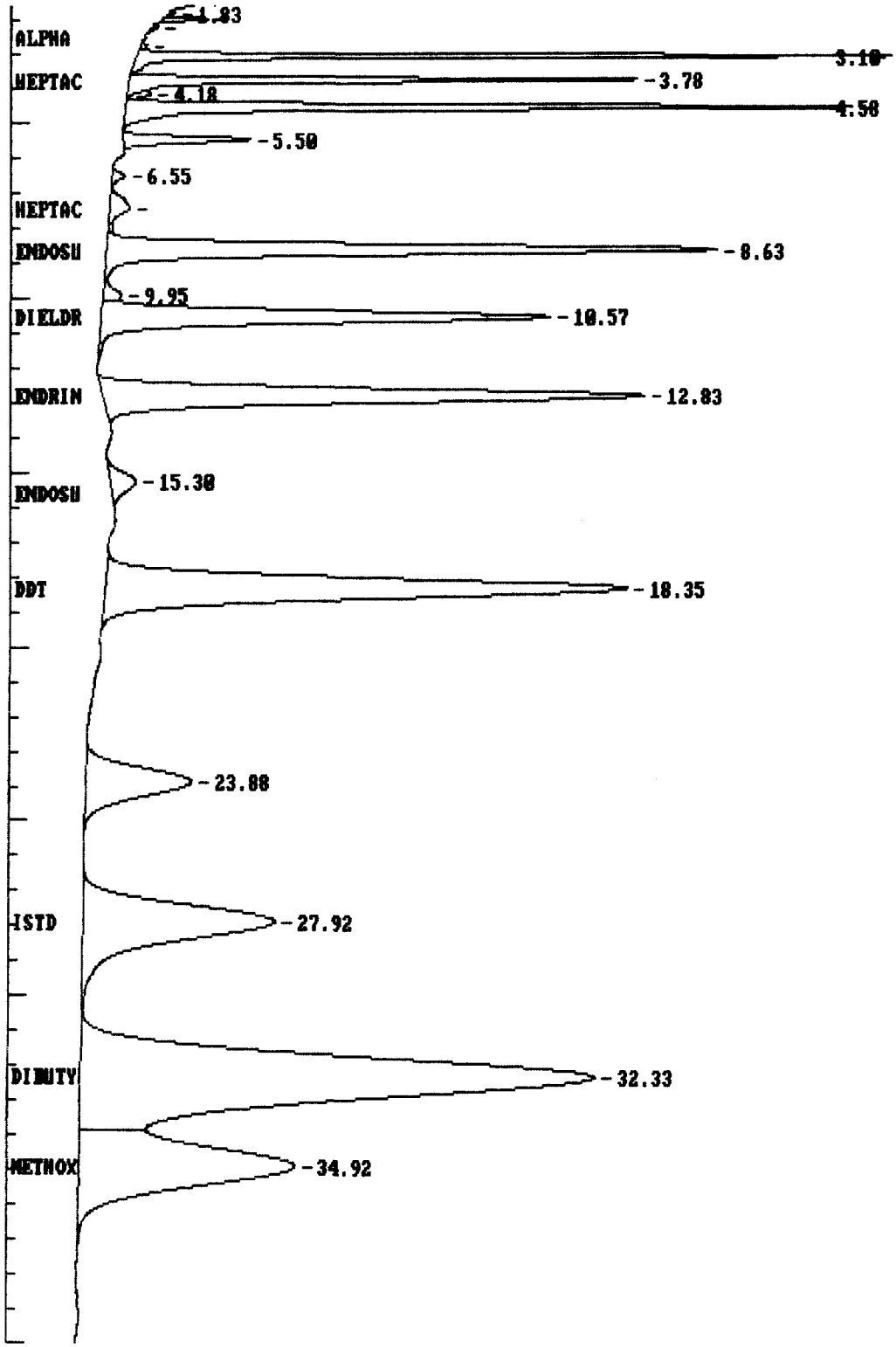
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
5	3.10	LINDANE	0.0759	2.8112%	1743354	223408	7.8	2	5	19	0	4.3560E-08
6	3.78	HEPTACHLOR	0.0643	2.3814%	1480958	149959	9.9	3	6	19	0	4.3439E-08
8	4.58	ALDRIN	0.1125	4.1659%	2515136	214554	11.7	2	8	19	0	4.4744E-08
11	7.45	HEPTACHLOR EPOXIDE	-0.0003	-0.0100%	191030	5897	32.4	2	11	19	0	-1.4174E-09
12	8.63	ENDOSULFAN I	0.1765	6.5343%	3667002	180323	20.3	2	12	19	0	4.8137E-08
14	10.57	DIELDRIN	0.1620	5.9956%	3318617	132938	25.0	2	14	19	0	4.8805E-08
15	12.83	ENDRIN	0.3357	12.4274%	4535038	160087	28.3	1	15	19	0	7.4027E-08
16	15.30	ENDOSULFAN II	0.0045	0.1663%	293527	7607	38.6	1	15	19	-1.818	1.5303E-08
17	18.35	DDT	0.3739	13.8418%	6280212	154353	40.7	1	17	19	0	5.9540E-08
19	27.92	ISTD	1.0000	0.0000%	3977492	56756	70.1	2	19	19	0	2.5141E-07
20	32.33	DIBUTYLCHLOR	0.8763	32.4379%	12938835	152076	85.1	2	20	19	0	6.7725E-08
21	34.92	METHOXYCHLOR	0.5200	19.2483%	5179122	63936	81.0	2	21	19	0	1.0040E-07

TOTAL AMOUNT = 2.7014

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALPHA BHC	2.55	ALPHA BHC

Data File = E:QP35.PTS Printed on 03-21-1990 at 10:40:35
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 106238 uv High Value: 346037 uv Scale factor: 1.0



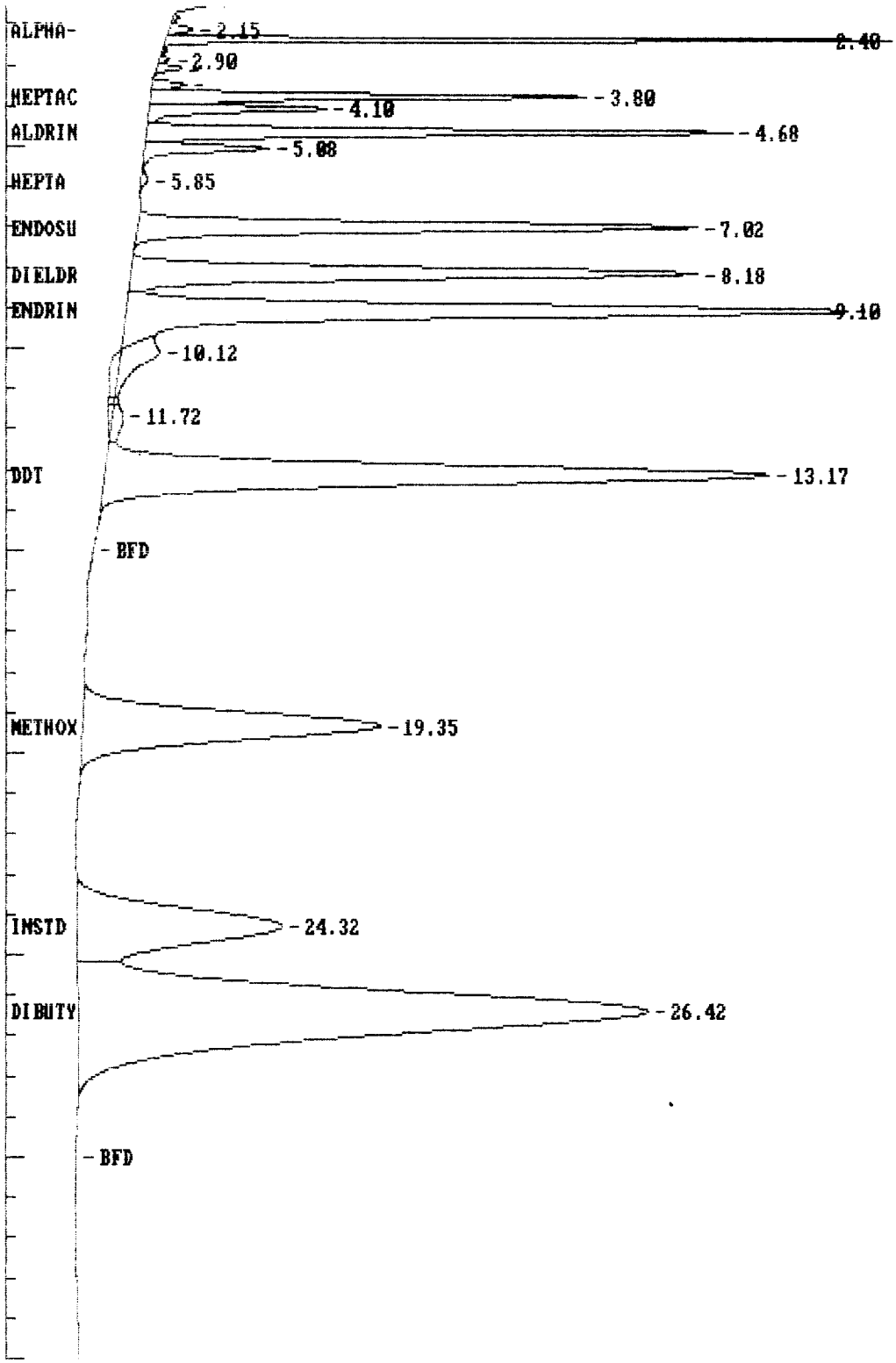
INTERNAL STANDARD TABLE

```
******************** 03-21-1990 10:55:21 Version 4.1 ********************
* Sample Name: 90FD10S38 PEST SPK D                Data File: W:2FT23      *
* Date: 03-20-1990 04:56:37 Method: W:CONFA  03-21-1990 08:43:31  #  31    *
* Interface: 0   Cycle#:  23   Operator AK  Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 5  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE         *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                         *
*             Detector 0: ECD CONF            Detector 1:                 *
* Misc. Information: TREKKER SF 7035                                      *
*************************************************************************
Starting Delay:    1.50                    Ending retention time:    40.00
Area reject:     30000                     One sample per    1.000 sec.
Amount injected:        5.00               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	2.15	ALPHA-BHC	0.0030	0.1297%	86043	7780	11.1	2	2	20	0	3.4351E-08
3	2.40	LINDANE	0.0587	2.5738%	1499728	239893	6.3	2	3	20	0	3.9120E-08
5	2.90		0.0000	0.0003%	30489	3772	8.1	2		20		2.4183E-10
6	3.12		0.0000	0.0009%	89042	8490	10.5	2		20		2.4183E-10
7	3.52		0.0000	0.0012%	109990	11533	9.5	2		20		2.4183E-10
8	3.80	HEPTACHLOR	0.0463	2.0296%	1472701	144145	10.2	2	8	20	0	3.1415E-08
9	4.10		0.0002	0.0076%	720697	58606	12.3	2		20		2.4183E-10
10	4.68	ALDRIN	0.0928	4.0710%	2319462	193197	12.0	2	10	20	0	4.0009E-08
11	5.08		0.0001	0.0057%	534132	41296	12.9	2		20		2.4183E-10
12	5.85	HEPTA EPOXIDE	0.0014	0.0607%	36030	2079	17.3	2	12	20	0	3.8374E-08
13	7.02	ENDOSULFAN I	0.1308	5.7373%	3267929	184903	17.7	1	13	20	0	4.0020E-08
14	8.18	DIELDRIN	0.1307	5.7347%	3865632	187275	20.6	2	14	20	0	3.3816E-08
15	9.10	ENDRIN+ENDO II	0.2365	10.3772%	5496692	238210	23.1	3	15	20	0	4.3035E-08
16	10.12		0.0002	0.0075%	705770	14336	49.2	4		20		2.4183E-10
17	11.72		0.0001	0.0022%	210519	4630	45.5	4		20		2.4183E-10
18	13.17	DDT	0.4693	20.5894%	7345924	219319	33.5	2	18	20	0	6.3890E-08
19	19.35	METHOXYCHLOR	0.4068	17.8453%	4664706	98217	47.5	1	19	20	0	8.7205E-08
20	24.32	INSTD MIREX	1.0000	0.0000%	4135139	67652	61.1	2	20	20	0	2.4183E-07
21	26.42	DIBUTYLCHLORENDATE	0.7027	30.8259%	14480690	188137	77.0	2	21	20	0	4.8525E-08

TOTAL AMOUNT = 2.2795

Data File = W:2FT23.PTS Printed on 03-21-1990 at 10:55:53
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 102902 uv High Value: 372336 uv Scale factor: 1.0



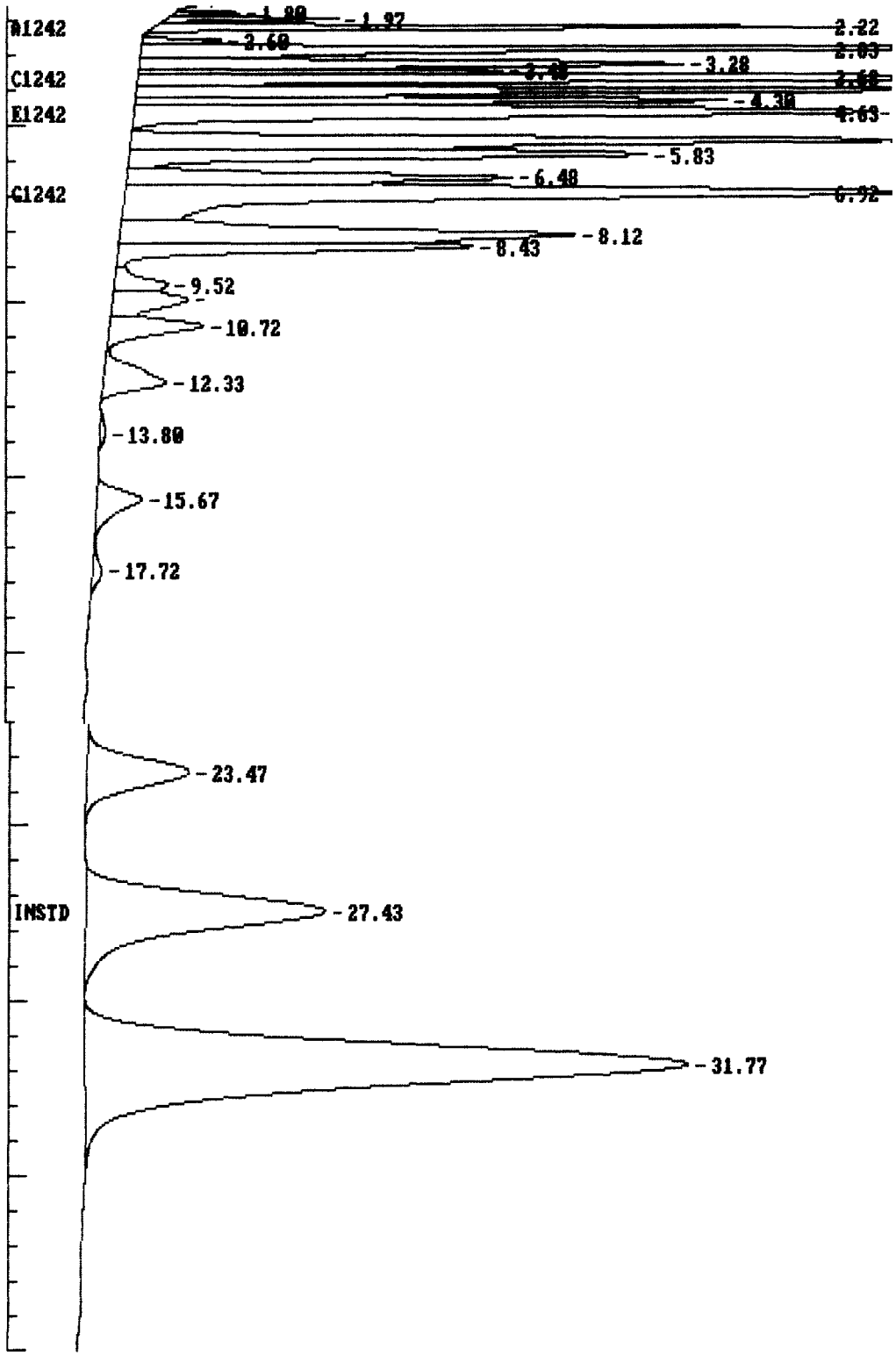
```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 15:17:12 Version 4.1 *********************
* Sample Name: 90FD10S38 PCB SPK                Data File: E:QP49        *
* Date: 03-20-1990 21:57:58 Method: K:GMET42  03-21-1990 15:06:49  #  48  *
* Interface: 0   Cycle#:  49   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD QUANT          Detector 1:                   *
* Misc. Information: TREKKER SF 7035                    PE PCBs           *
*************************************************************************
Starting Delay:    1.50                    Ending retention time:   45.00
Area reject:        0                      One sample per   1.000 sec.
Amount injected:       5.00                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	2.22	A1242	2.1062	9.6881%	1204778	169620	7.1	2	3	26	0	1.7482E-06
5	2.83	B1242	2.8578	13.1453%	2731849	280862	9.7	2	5	26	0	1.0461E-06
8	3.68	C1242	3.1579	14.5257%	4974936	501579	9.9	2	8	26	0	6.3475E-07
9	4.02	D1242	3.0526	14.0415%	2348773	211903	11.1	2	9	26	0	1.2997E-06
11	4.63	E1242	3.2258	14.8383%	3630546	181148	20.0	2	11	26	0	8.8852E-07
12	5.43	F1242	3.4509	15.8737%	3077789	191509	16.1	2	12	26	0	1.1212E-06
15	6.92	G1242	3.8887	17.8875%	4868386	194344	25.1	2	15	26	0	7.9877E-07
26	27.43	INSTD	1.0000	0.0000%	4093115	58835	69.6	1	26	26	0	2.4431E-07

TOTAL AMOUNT = 21.7399

Avg Conc 3.11 ug/l

Data File = E:QP49.PTS Printed on 03-21-1990 at 15:17:32
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Full Range: 200 millivolts



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

********** 03-21-1990 15:48:25 Version 4.1 **********

* Sample Name: 90FD10S38 PCB SPK Data File: E:QP49 *
* Date: 03-20-1990 21:57:58 Method: K:1PESTA2 03-21-1990 15:38:40 # 61 *
* Interface: 0 Cycle#: 49 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER SF 7035 PE PCBs *

****

Starting Delay: 1.50 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

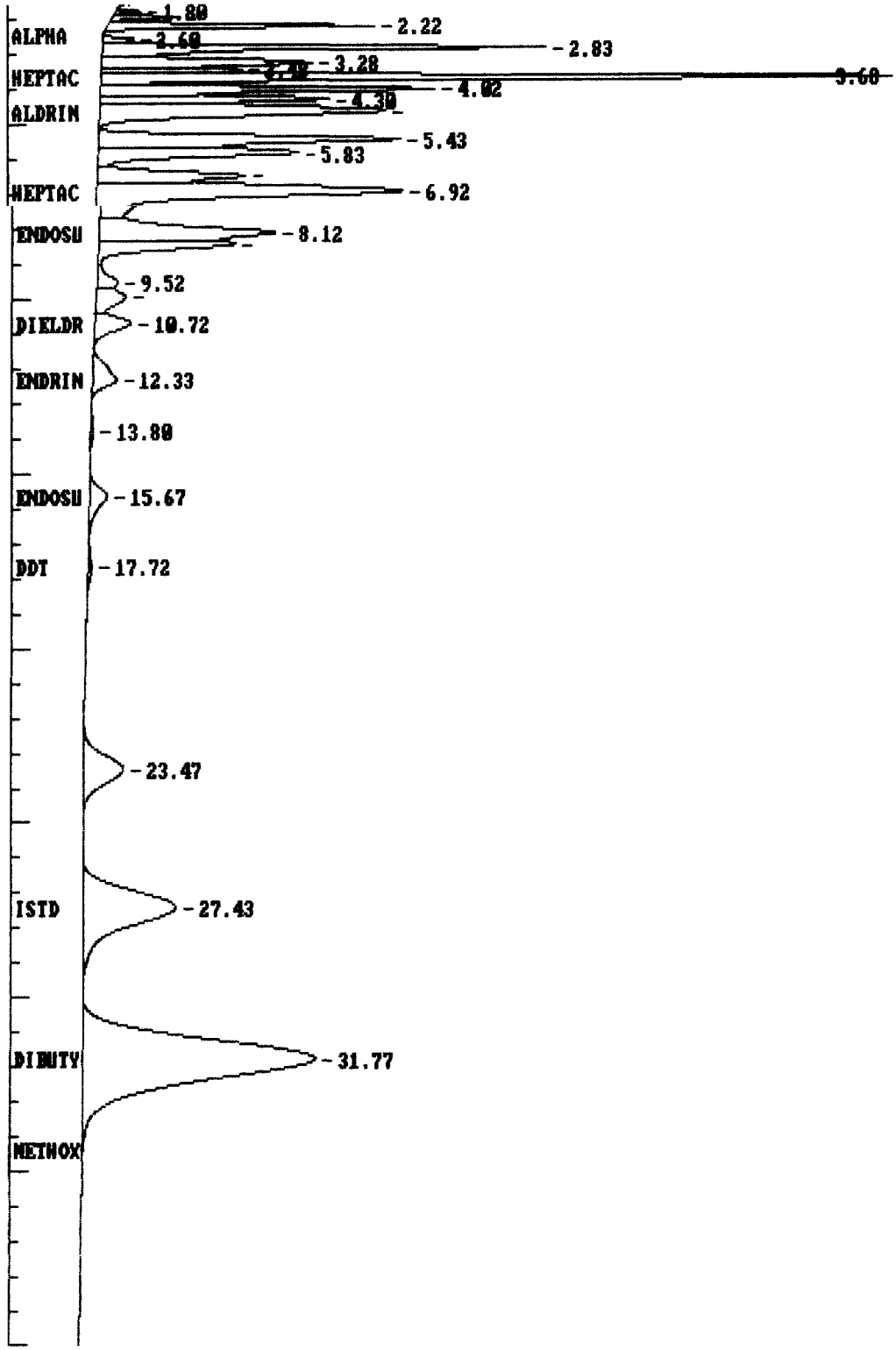
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
8	3.68	HEPTACHLOR	0.2230	13.7494%	4974936	501579	9.9	2	8	26	0	4.4823E-08
11	4.63	ALDRIN	0.1588	9.7924%	3630546	181148	20.0	2	11	26	0	4.3744E-08
15	6.92	HEPTACHLOR EPOXIDE	0.2211	13.6314%	4868386	194344	25.1	2	15	26	0	4.5411E-08
16	8.12	ENDOSULFAN I	0.1213	7.4774%	2661012	111915	23.8	2	16	26	0	4.5573E-08
20	10.72	DIELDRIN	0.0283	1.7473%	687500	23162	29.7	2	20	26	0	4.1220E-08
21	12.33	ENDRIN	0.0414	2.5509%	633606	15619	40.6	2	21	26	0	6.5296E-08
23	15.67	ENDOSULFAN II	0.0148	0.9124%	473074	11120	42.5	2	23	26	0	3.1278E-08
24	17.72	DDT	0.0160	0.9873%	107890	2368	45.6	2	24	26	0	1.4841E-07
26	27.43	ISTD	1.0000	0.0000%	4093115	58835	69.6	1	26	26	0	2.4431E-07
27	31.77	DIBUTYLCHLOR	0.7972	49.1516%	12180769	147991	82.3	1	27	26	0	6.5444E-08

TOTAL AMOUNT = 1.6218

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALPHA BHC	2.43	ALPHA BHC
LINDANE	3.07	LINDANE
METHOXYCHLOR	34.35	METHOXYCHLOR

Data File = E:QP49.PTS Printed on 03-21-1990 at 15:48:49
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 107852 uv High Value: 624308 uv Scale factor: 1.0



INTERNAL STANDARD TABLE

********** 03-21-1990 10:43:26 Version 4.1 **********

* Sample Name: 90FD10S38 PCB SPK Data File: W:2FT27 *
* Date: 03-20-1990 07:22:18 Method: W:CONF42 03-21-1990 08:44:03 # 21 *
* Interface: 0 Cycle#: 27 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: SINGLE PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C *
* Detector 0: ECD CONF Detector 1: *
* Misc. Information: TREKKER SF 7035 *

****

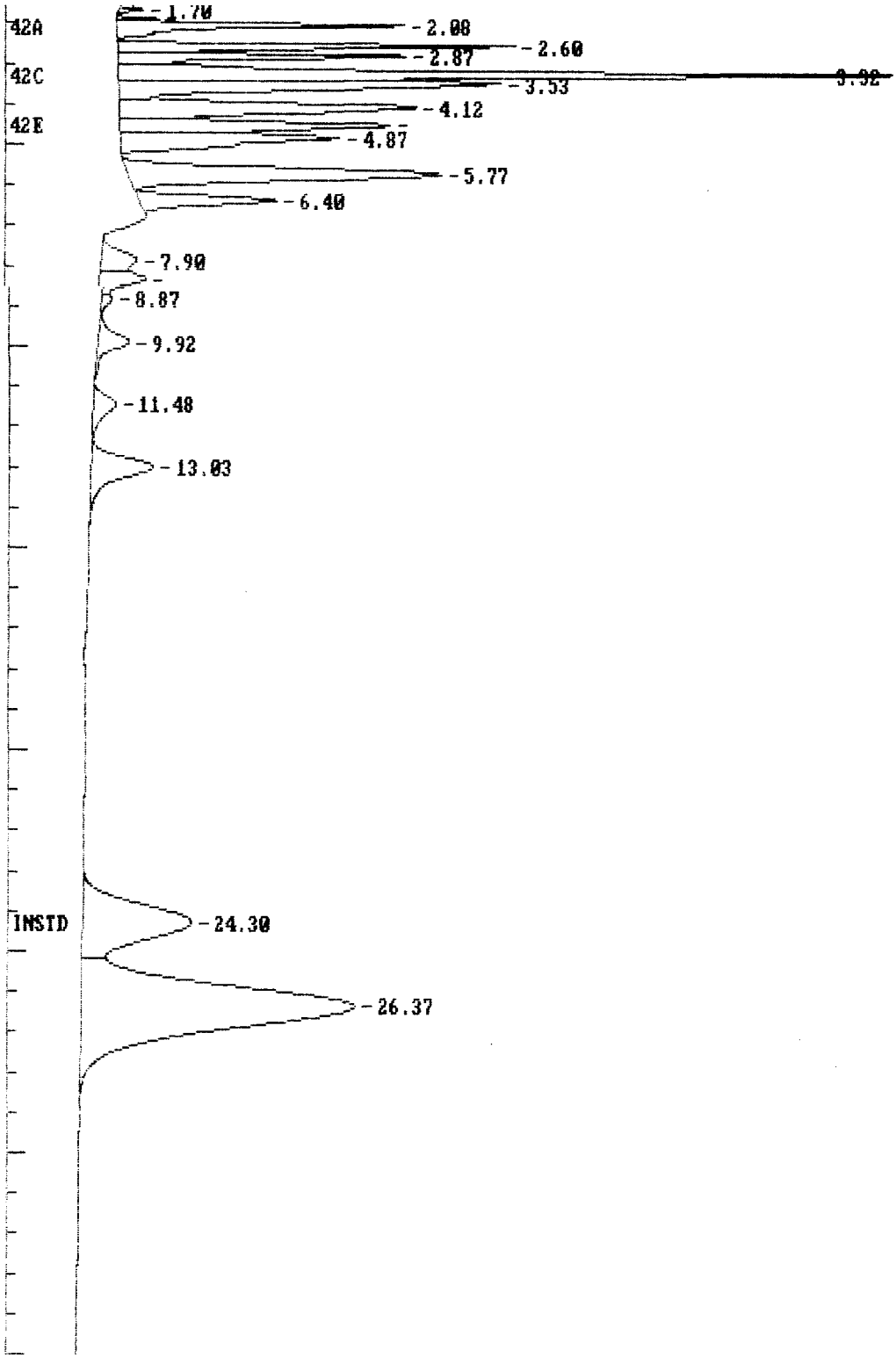
Starting Delay: 1.50 Ending retention time: 40.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

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	2.08	42A	2.7022	19.7447%	1659685	187557	8.8	2	3	19	0	1.6281E-06
4	2.60	42B	2.2666	16.5620%	2206557	259308	8.5	2	4	19	0	1.0272E-06
6	3.32	42C	2.8581	20.8837%	5866733	505206	11.6	2	6	19	0	4.8716E-07
8	4.12	42D	2.8178	20.5895%	3505389	193665	18.1	2	8	19	0	8.0385E-07
9	4.57	42E	3.0410	22.2201%	2553887	176124	14.5	2	9	19	0	1.1907E-06
19	24.30	INSTD MIREX	1.0000	0.0000%	4375587	70888	61.7	2	19	19	0	2.2854E-07

TOTAL AMOUNT = 13.6856

Avg 2.74 ug/l

Data File = W:2FT27.PTS Printed on 03-21-1990 at 10:43:45
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 98536 uv High Value: 631422 uv Scale factor: 1.0



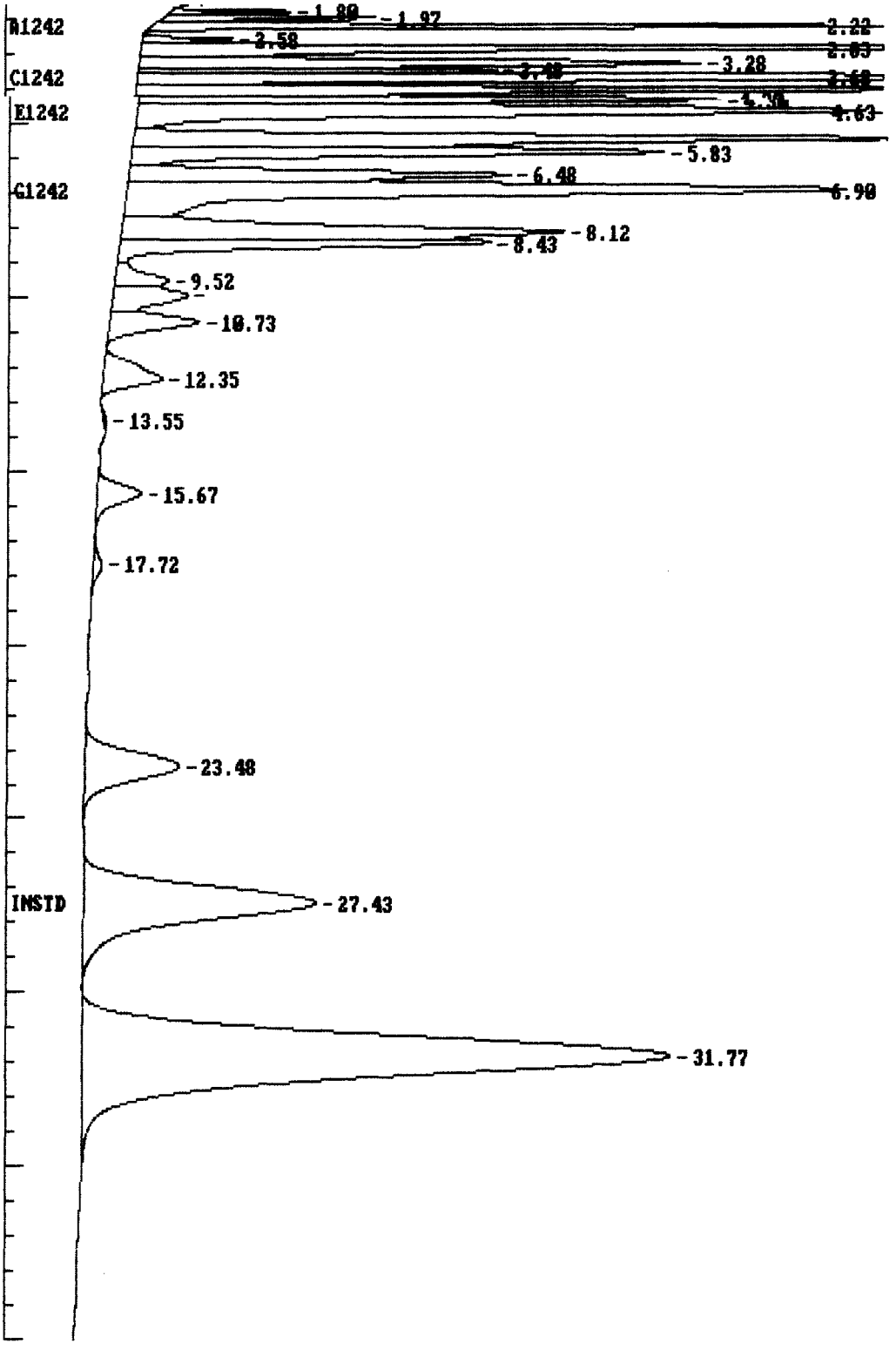
```
******   INTERNAL STANDARD TABLE   ******
******************** 03-21-1990 15:18:39 Version 4.1 **********************
* Sample Name: 90FD10S38 PCB SPK D                Data File: E:QP50        *
* Date: 03-20-1990 22:39:11 Method: K:GMET42  03-21-1990 15:06:49  #  48   *
* Interface: 0   Cycle#:  50   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD QUANT          Detector 1:                   *
* Misc. Information: TREKKER SF 7035                    PE PCBs           *
*************************************************************************
Starting Delay:    1.50                    Ending retention time:    45.00
Area reject:        0                      One sample per   1.000 sec.
Amount injected:        5.00               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	2.22	A1242	2.6504	11.6654%	1441538	200225	7.2	2	3	26	0	1.8386E-06
5	2.83	B1242	2.9867	13.1458%	2769743	299412	9.3	2	5	26	0	1.0783E-06
8	3.68	C1242	3.1960	14.0671%	4897737	504401	9.7	2	8	26	0	6.5256E-07
9	4.02	D1242	3.2436	14.2766%	2419111	212257	11.4	2	9	26	0	1.3408E-06
11	4.63	E1242	3.3834	14.8918%	3693759	179805	20.5	2	11	26	0	9.1598E-07
12	5.43	F1242	3.5856	15.7819%	3098005	191691	16.2	2	12	26	0	1.1574E-06
15	6.90	G1242	3.6742	16.1715%	4494468	177987	25.3	2	15	26	0	8.1749E-07
26	27.43	INSTD	1.0000	0.0000%	3986923	57457	69.4	1	26	26	0	2.5082E-07

TOTAL AMOUNT = 22.7201

Avg Conc 3.25 ug/l

Data File = E:QP50.PTS Printed on 03-21-1990 at 15:18:59
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Full Range: 200 millivolts



```
******   INTERNAL STANDARD TABLE   ******
******************** 03-21-1990 15:49:47 Version 4.1 **********************
* Sample Name: 90FD10S38 PCB SPK D                Data File: E:QP50        *
* Date: 03-20-1990 22:39:11 Method: K:1PESTA2  03-21-1990 15:38:40  #  61 *
* Interface: 0   Cycle#:  50   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
***************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*             Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information: TREKKER SF 7035                    PE PCBs            *
***************************************************************************
Starting Delay:    1.50                      Ending retention time:    45.00
Area reject:         0                       One sample per   1.000 sec.
Amount injected:        5.00                 Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

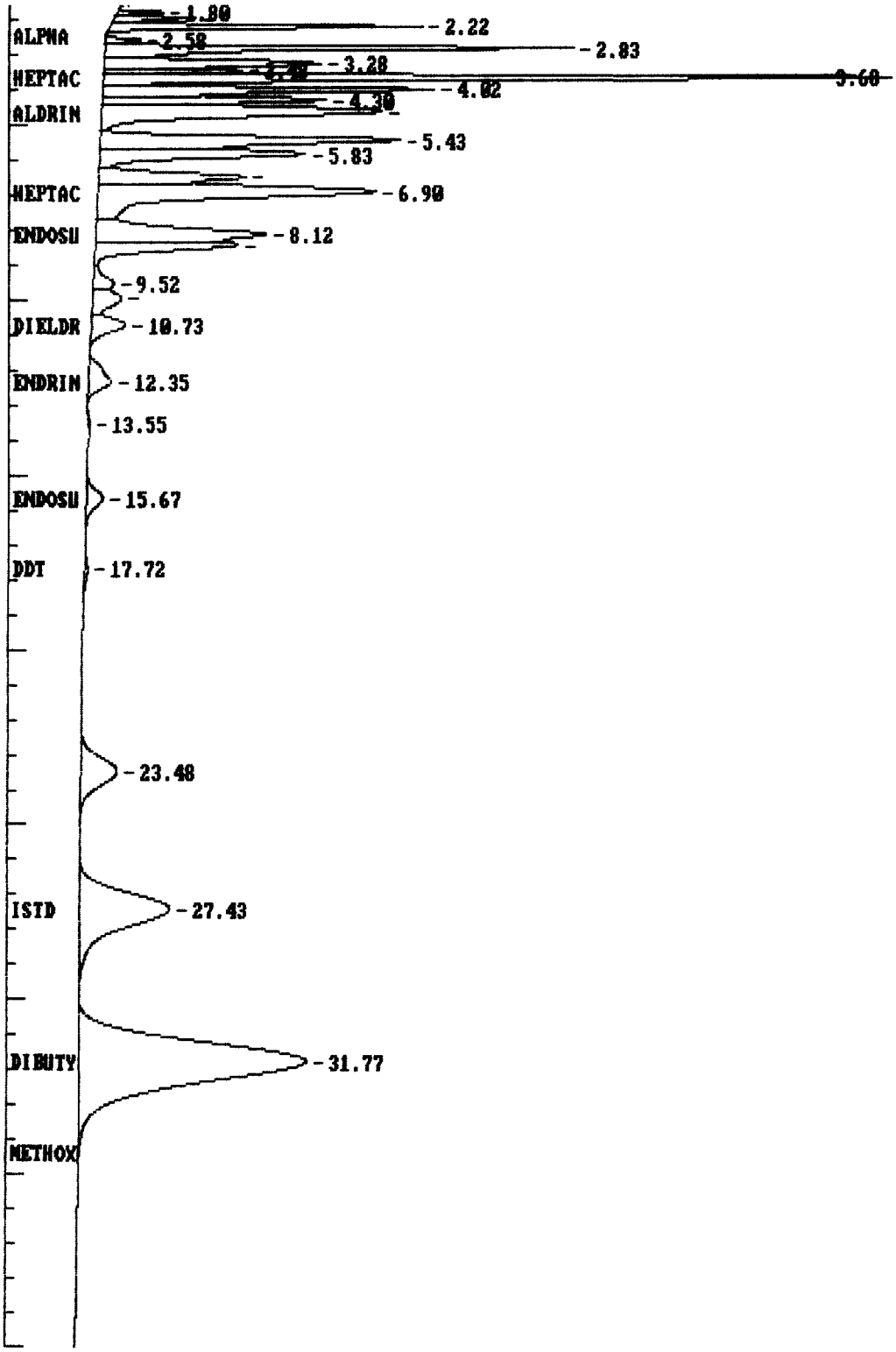
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
8	3.68	HEPTACHLOR	0.2254	14.0469%	4897737	504401	9.7	2	8	26	0	4.6031E-08
11	4.63	ALDRIN	0.1662	10.3539%	3693759	179805	20.5	2	11	26	0	4.4988E-08
15	6.90	HEPTACHLOR EPOXIDE	0.2089	13.0191%	4494468	177987	25.3	2	15	26	0	4.6490E-08
16	8.12	ENDOSULFAN I	0.1157	7.2081%	2480245	109325	22.7	2	16	26	0	4.6643E-08
20	10.73	DIELDRIN	0.0272	1.6927%	646139	22247	29.0	2	20	26	0	4.2045E-08
21	12.35	ENDRIN	0.0383	2.3882%	576125	14691	39.2	1	21	26	0	6.6530E-08
23	15.67	ENDOSULFAN II	0.0118	0.7362%	393316	10710	36.7	2	23	26	0	3.0041E-08
24	17.72	DDT	0.0147	0.9188%	83423	1931	43.2	2	24	26	0	1.7677E-07
26	27.43	ISTD	1.0000	0.0000%	3986923	57457	69.4	1	26	26	0	2.5082E-07
27	31.77	DIBUTYLCHLOR	0.7966	49.6361%	11857389	145467	81.5	1	27	26	0	6.7185E-08

TOTAL AMOUNT = 1.6049

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALPHA BHC	2.43	ALPHA BHC
LINDANE	3.07	LINDANE
METHOXYCHLOR	34.35	METHOXYCHLOR

Data File = E:QP50.PTS Printed on 03-21-1990 at 15:50:11
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 109142 uv High Value: 628926 uv Scale factor: 1.0



INTERNAL STANDARD TABLE

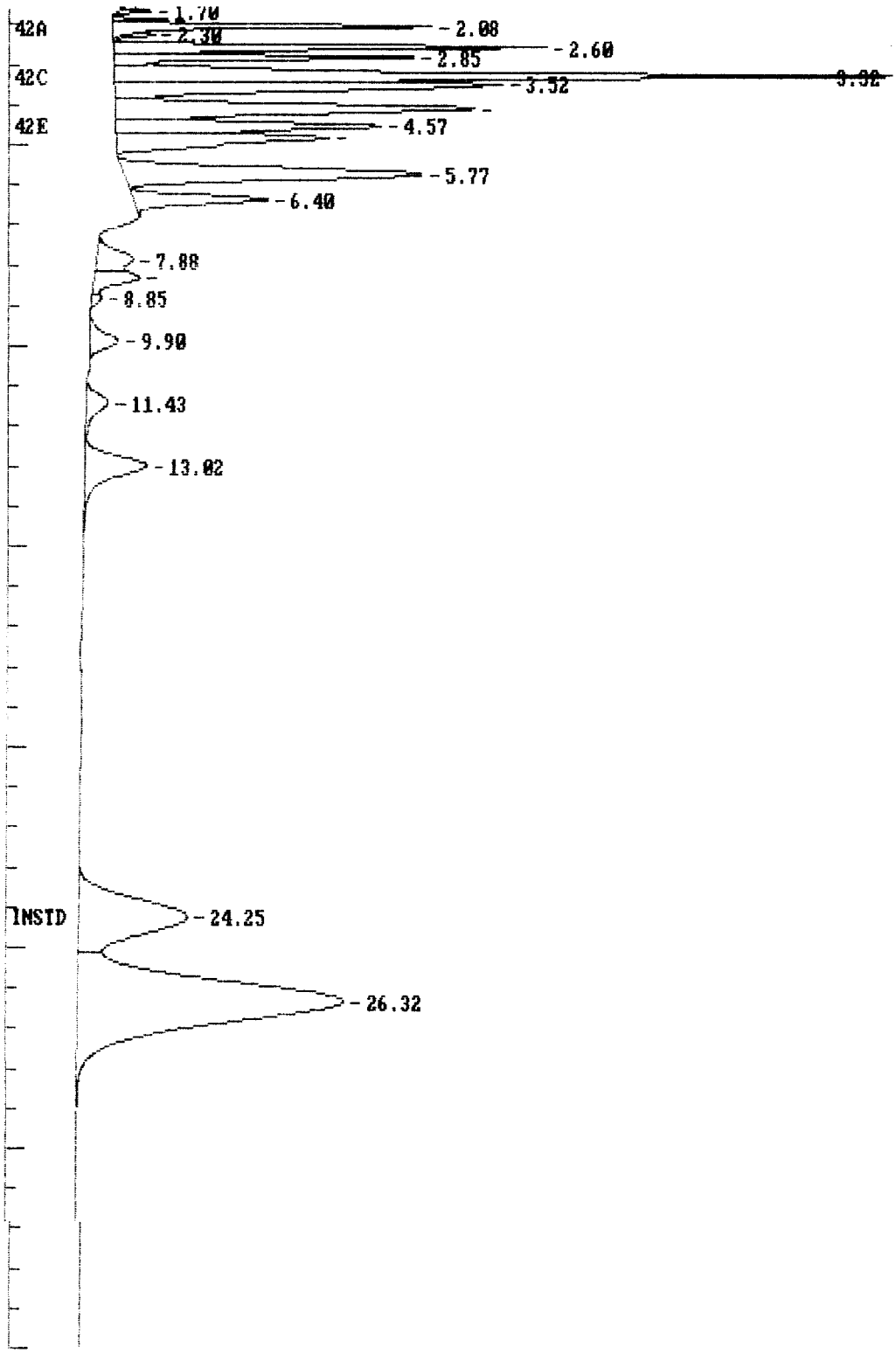
```
******************** 03-21-1990 11:02:33 Version 4.1 ********************
* Sample Name: 90FD10S38 PCB SPK D                Data File: W:2FT29      *
* Date: 03-20-1990 09:05:29 Method: W:CONF42  03-21-1990 08:44:03  #  21  *
* Interface: 0   Cycle#:  29   Operator AK  Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE         *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                         *
*             Detector 0: ECD CONF            Detector 1:                 *
* Misc. Information: TREKKER SF 7035                                      *
*************************************************************************
Starting Delay:    1.50                    Ending retention time:    40.00
Area reject:         0                     One sample per    1.000 sec.
Amount injected:        5.00               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	2.08	42A	2.6299	18.6611%	1628270	208879	7.8	3	3	20	0	1.6152E-06
5	2.60	42B	2.4094	17.0963%	2364385	282864	8.4	2	5	20	0	1.0190E-06
7	3.32	42C	2.8177	19.9935%	5830315	509238	11.4	2	7	20	0	4.8329E-07
9	4.12	42D	3.2343	22.9496%	4055836	234970	17.3	2	9	20	0	7.9745E-07
10	4.57	42E	3.0017	21.2994%	2541189	173371	14.7	2	10	20	0	1.1812E-06
20	24.25	INSTD MIREX	1.0000	0.0000%	4410699	71414	61.8	2	20	20	0	2.2672E-07

TOTAL AMOUNT = 14.0931

Avg 2.82 ug/l

Data File = W:2FT29.PTS Printed on 03-21-1990 at 11:02:51
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 97976 uv High Value: 630139 uv Scale factor: 1.0



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

********** 03-21-1990 10:37:16 Version 4.1 **********

* Sample Name: METHOD BLANK SF 7035 Data File: E:QP33 *
* Date: 03-20-1990 11:07:50 Method: K:1PESTA 03-21-1990 10:25:56 # 59 *
* Interface: 0 Cycle#: 33 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER SF 7035 PE PCBs *

****

Starting Delay: 1.50 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

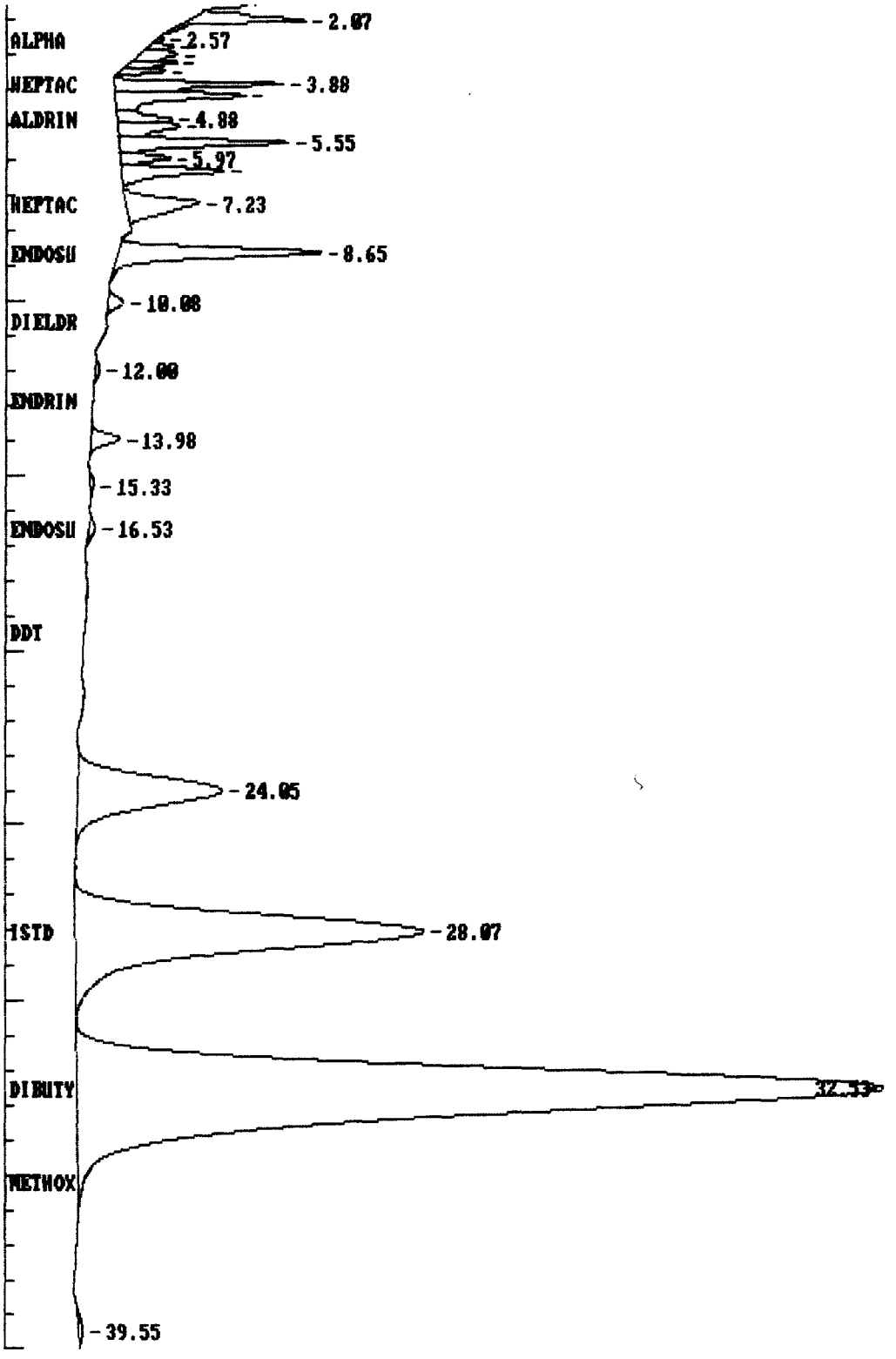
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	2.57	~~ALPHA BHC~~ BCS	~~0.0016~~	0.1942%	10423	1056	9.9	2	2	22	0	1.5524E-07
5	3.27	~~LINDANE~~ BCS	~~0.0011~~	0.1261%	90564	7929	11.4	2	5	22	0	1.1598E-08
7	3.88	~~HEPTACHLOR~~ BCS	~~0.0086~~	1.0278%	319725	28660	11.2	2	7	22	0	2.6788E-08
9	4.88	~~ALDRIN~~ BCS	~~0.0012~~	0.1454%	144060	9348	15.4	2	9	22	0	8.4075E-09
14	7.23	~~HEPTACHLOR EPOXIDE~~ BCS	~~0.0067~~	0.7989%	348846	12601	27.7	1	14	22	0	1.9083E-08
15	8.65	~~ENDOSULFAN~~ I BCS	~~0.0258~~	3.0964%	689202	34471	20.0	1	15	22	0	3.7437E-08
16	10.08	~~DIELDRIN~~ BCS	~~0.0010~~	-0.1180%	55282	2566	21.5	1	15	22	-4.721	-1.7791E-08
20	16.53	~~ENDOSULFAN~~ II BCS	~~0.0072~~	-0.8582%	32337	1113	29.1	1	20	22	0	-2.2115E-07
22	28.07	ISTD	1.0000	0.0000%	4175878	59041	70.7	2	22	22	0	2.3947E-07
23	32.53	DIBUTYLCHLOR	0.7965	95.5875%	12397080	136630	90.7	2	23	22	0	6.4250E-08

TOTAL AMOUNT = 0.8333

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ENDRIN	12.85	ENDRIN
DDT	19.47	DDT
METHOXYCHLOR	35.17	METHOXYCHLOR

Data File = E:QP33.PTS Printed on 03-21-1990 at 10:37:39
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 102031 uv High Value: 239060 uv Scale factor: 1.0



INTERNAL STANDARD TABLE

```
******************** 03-21-1990 10:52:16 Version 4.1 ************************
* Sample Name: METHOD BLANK                          Data File: W:2FT21       *
* Date: 03-20-1990 03:43:47 Method: W:CONFA  03-21-1990 08:43:31  #  31      *
* Interface: 0   Cycle#:  21   Operator AK  Channel#: 0    Vial#: N.A.       *
* Starting Peak Width:  10   Threshold: 5  Area Threshold: 1000              *
*****************************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE            *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                            *
*             Detector 0: ECD CONF            Detector 1:                    *
* Misc. Information:                                                         *
*****************************************************************************
Starting Delay:    1.50                      Ending retention time:    40.00
Area reject:     30000                       One sample per    1.000 sec.
Amount injected:        1.00                 Dilution factor:        10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

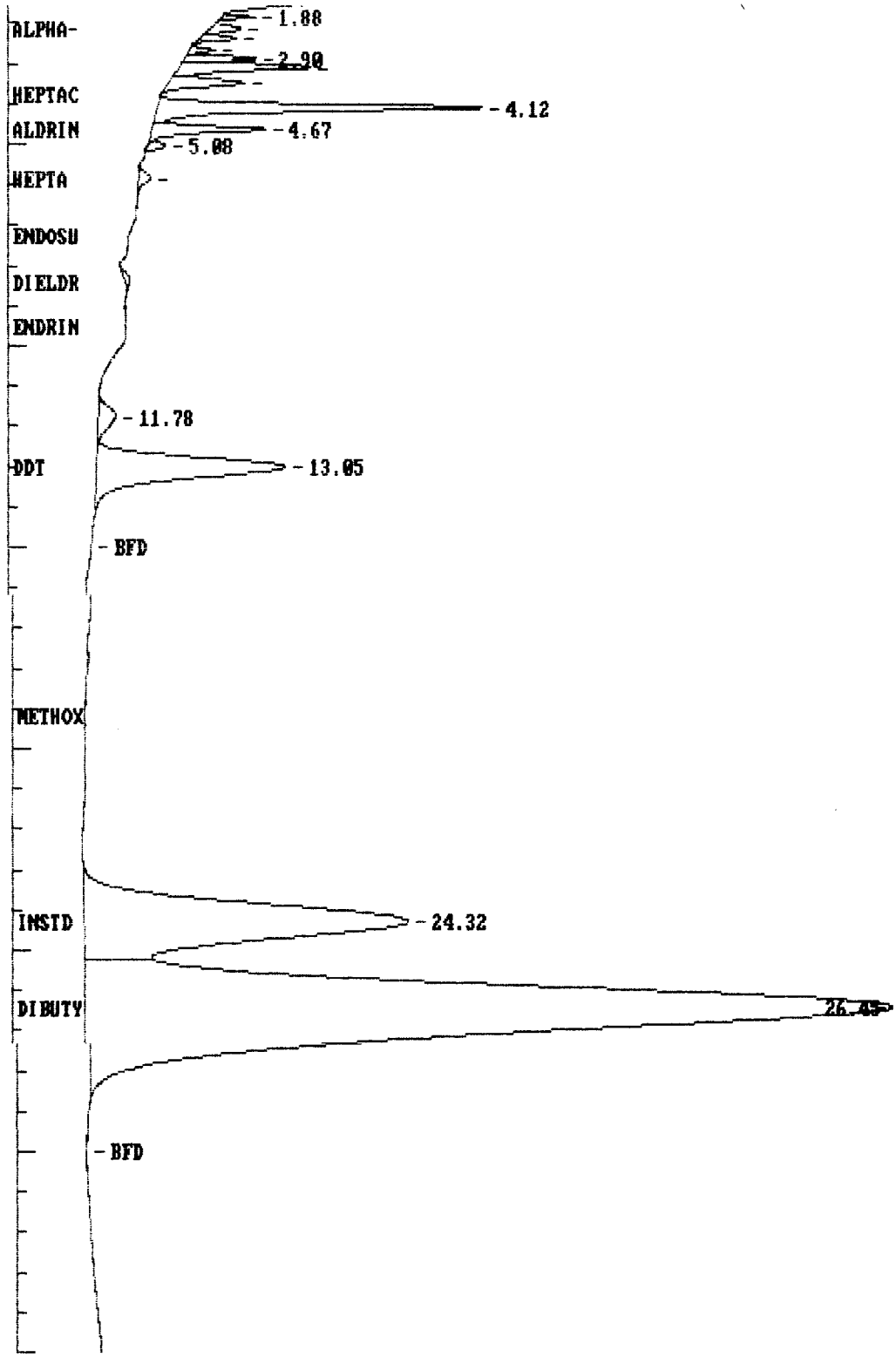
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug\L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
1	1.88		0.0000	0.0012%	41005	7660	5.4	2		15		2.3051E-10
2	2.17	ALPHA-BHC	0.0026	0.3419%	79694	7172	11.1	2	2	15	0	3.2744E-08
3	2.42	LINDANE	0.0027	0.3483%	71283	8387	8.5	2	3	15	0	3.7289E-08
4	2.70		0.0000	0.0013%	42061	5927	7.1	2		15		2.3051E-10
5	2.90		0.0000	0.0039%	130410	15839	8.2	2		15		2.3051E-10
6	3.12		0.0001	0.0112%	370457	28842	12.8	2		15		2.3051E-10
7	3.52		0.0001	0.0068%	224291	16759	13.4	2		15		2.3051E-10
8	4.12		0.0002	0.0282%	933487	70493	13.2	2		15		2.3051E-10
9	4.67	ALDRIN	0.0116	1.5176%	303702	24915	12.2	3	9	15	0	3.8136E-08
10	5.08		0.0000	0.0014%	46592	4368	10.7	4		15		2.3051E-10
11	5.87	HEPTA EPOXIDE	0.0015	0.2014%	42016	2399	17.5	1	11	15	0	3.6578E-08
13	11.78		0.0000	0.0041%	136754	3752	36.5	2		15		2.3051E-10
14	13.05	DDT	0.0878	11.5091%	1442248	41105	35.1	2	14	15	0	6.0901E-08
15	24.32	INSTD MIREX	1.0000	0.0000%	4338150	70223	61.8	2	15	15	0	2.3051E-07
16	26.45	DIBUTYLCHLORENDATE	0.6565	86.0236%	14193432	174928	81.1	2	16	15	0	4.6254E-08

TOTAL AMOUNT = 0.7632

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
HEPTACHLOR	3.81	HEPTACHLOR
ENDOSULFAN I	7.27	ENDOSULFAN I
DIELDRIN	8.42	DIELDRIN
ENDRIN+ENDO II	9.54	ENDRIN+ENDO II
METHOXYCHLOR	19.16	METHOXYCHLOR

Data File = W:2FT21.PTS Printed on 03-21-1990 at 10:52:46
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 98423 uv High Value: 274028 uv Scale factor: 1.0



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

```
******************** 03-21-1990 13:24:24 Version 4.1 **********************
* Sample Name: METHOD BLANK SF 7035                Data File: E:QP33        *
* Date: 03-20-1990 11:07:50 Method: K:1PESTB  03-21-1990 12:44:36  #  32   *
* Interface: 0   Cycle#:  33   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
***********************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*             Detector 0: ECD QUANT            Detector 1:                 *
* Misc. Information: TREKKER SF 7035                    PE PCBs            *
***********************************************************************
Starting Delay:    1.50                    Ending retention time:    45.00
Area reject:        0                      One sample per   1.000 sec.
Amount injected:        5.00               Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

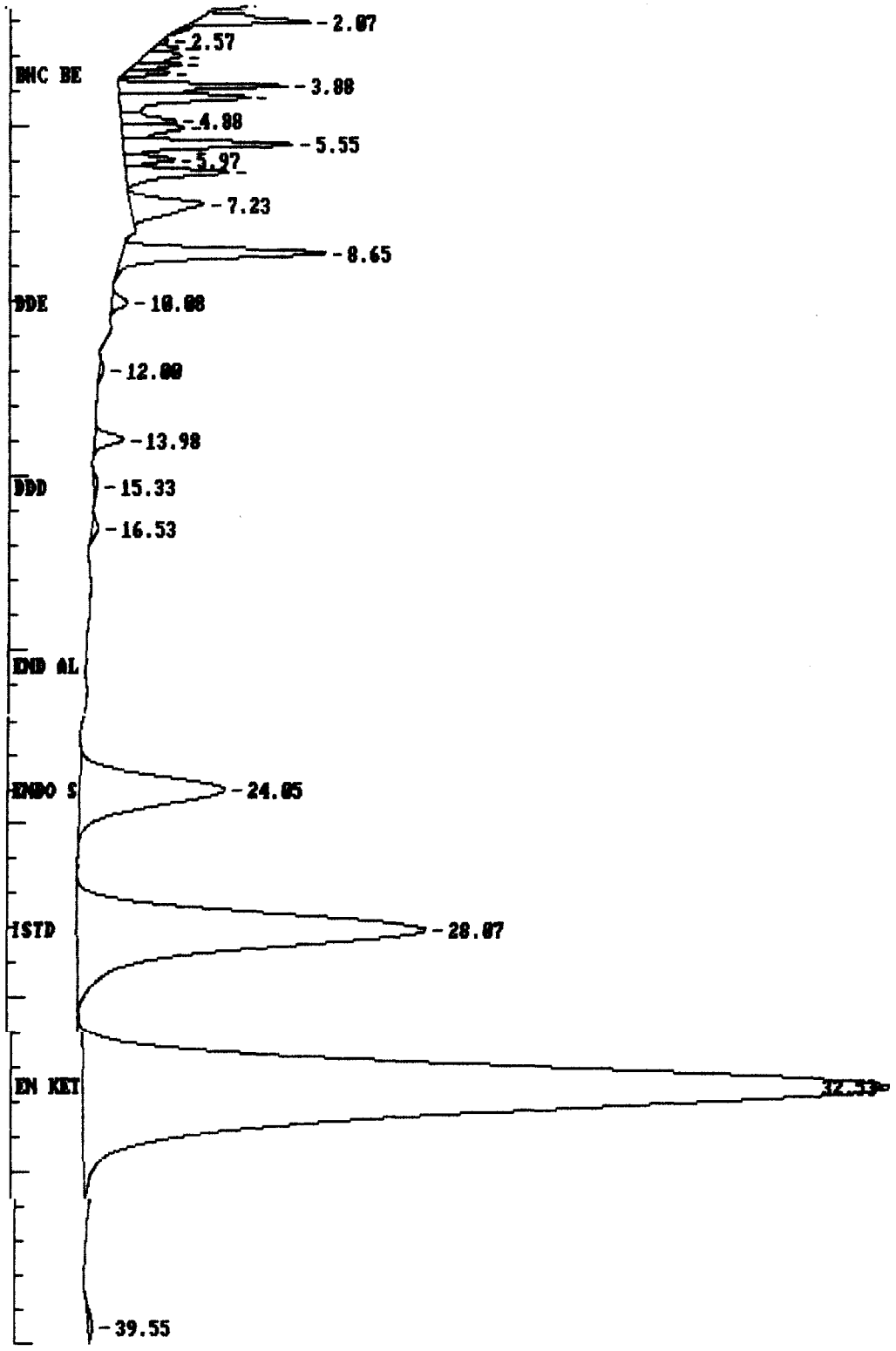
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
6	3.50	~~BHC-BETA~~ BLS	~~-0.0023~~	-0.2206%	82567	7547	10.9	2	6	22	0	-2.7443E-08
8	4.22	~~BHC-DELTA~~ BLS	~~0.0164~~	1.5916%	385463	22282	17.3	2	8	22	0	4.2418E-08
16	10.08	~~DDE~~ BLS	~~0.0011~~	0.1055%	55282	2566	21.5	1	16	22	0	1.9606E-08
19	15.33	~~DDD~~ BLS	~~0.0032~~	0.3120%	23425	742	31.6	1	19	22	0	1.3684E-07
21	24.05	~~ENDO SULFATE~~ N.C.	0.0921	8.9658%	1433310	24533	58.4	1	21	22	0	6.4259E-08
22	28.07	ISTD	1.0000	0.0000%	4175878	59041	70.7	2	22	22	0	2.3947E-07
23	32.53	~~EN KETONE~~ DBC	~~0.9168~~	89.2456%	12397080	136630	90.7	2	23	22	0	7.3952E-08

TOTAL AMOUNT = 1.0273

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
END ALDEHYDE	20.46	END ALDEHYDE

Data File = E:QP33.PTS Printed on 03-21-1990 at 13:24:43
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 102031 uv High Value: 239060 uv Scale factor: 1.0



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

********** 03-21-1990 10:44:41 Version 4.1 **********

* Sample Name: METHOD BLANK Data File: W:2FT21 *
* Date: 03-20-1990 03:43:47 Method: W:CONFB 03-21-1990 08:43:48 # 23 *
* Interface: 0 Cycle#: 21 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 5 Area Threshold: 1000 *

****

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

****

Starting Delay: 1.50 Ending retention time: 40.00
Area reject: 30000 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

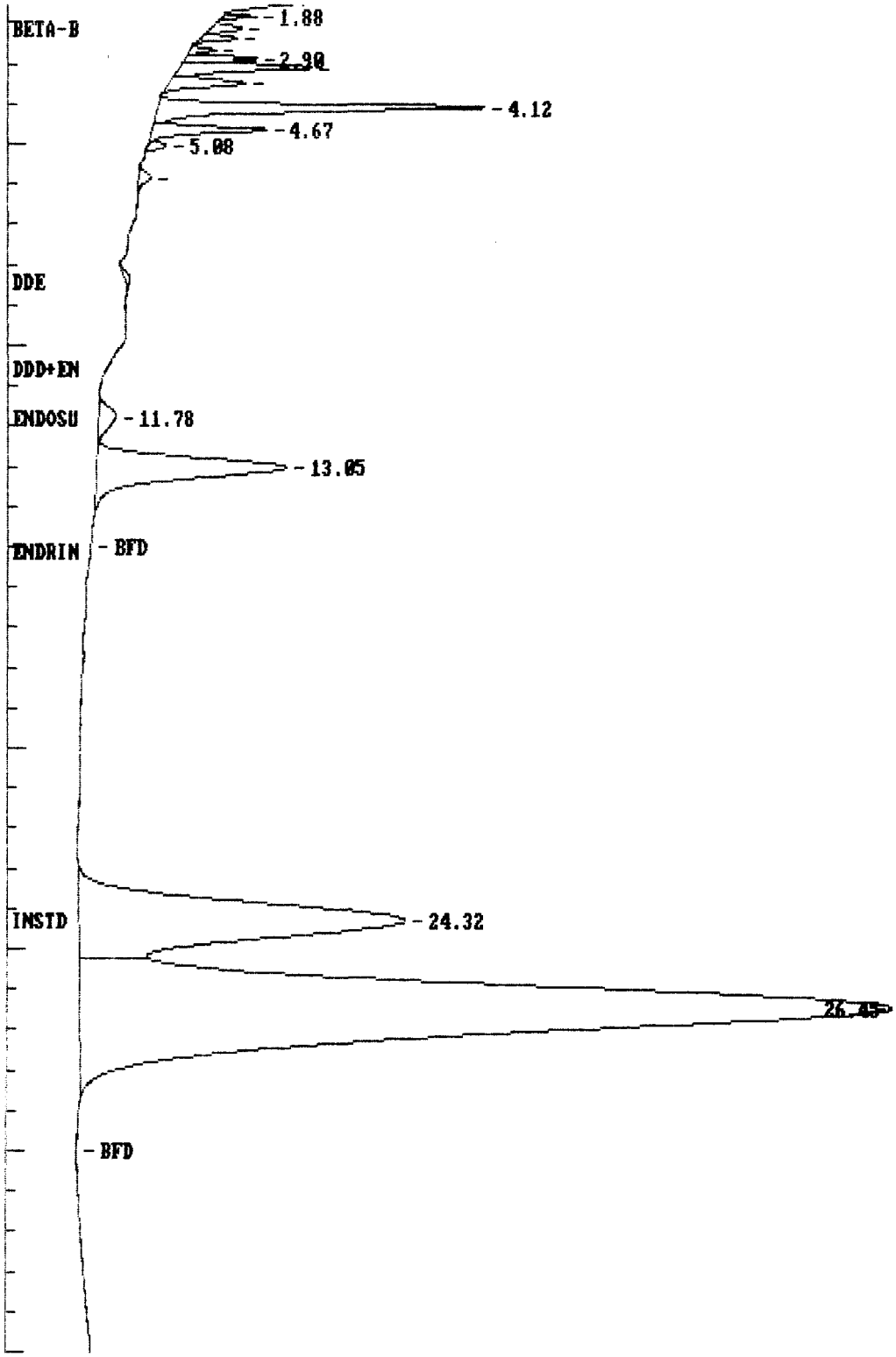
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug\L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
1	1.88		0.0000	0.0279%	41005	7660	5.4	2		15		2.3051E-10
2	2.17	BETA-BHC	0.0049	14.3462%	79694	7172	11.1	2	2	15	0	6.0985E-08
3	2.42	DELTA-BHC	0.0054	16.0851%	71283	8387	8.5	2	3	15	0	7.6445E-08
4	2.70		0.0000	0.0286%	42061	5927	7.1	2		15		2.3051E-10
5	2.90		0.0000	0.0887%	130410	15839	8.2	2		15		2.3051E-10
6	3.12		0.0001	0.2521%	370457	28842	12.8	2		15		2.3051E-10
7	3.52		0.0001	0.1526%	224291	16759	13.4	2		15		2.3051E-10
8	4.12		0.0002	0.6352%	933487	70493	13.2	2		15		2.3051E-10
9	4.67		0.0001	0.2066%	303702	24915	12.2	3		15		2.3051E-10
10	5.08		0.0000	0.0317%	46592	4368	10.7	4		15		2.3051E-10
11	5.87		0.0000	0.0286%	42016	2399	17.5	1		15		2.3051E-10
13	11.78	~~ENDOSULFAN SO4~~ Noise	0.0195	57.4775%	136754	3752	36.5	2	13	15	0	1.4239E-07
14	13.05		0.0003	0.9814%	1442248	41105	35.1	2		15		2.3051E-10
15	24.32	INSTD MIREX	1.0000	0.0000%	4338150	70223	61.8	2	15	15	0	2.3051E-07
16	26.45		0.0033	9.6577%	14193432	174928	81.1	2		15		2.3051E-10

TOTAL AMOUNT = 0.0339

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
DDE	8.42	DDE
DDD+ENDRINALDE	10.61	DDD+ENDRINALDE
ENDRIN KETONE	15.12	ENDRIN KETONE

Data File = W:2FT21.PTS Printed on 03-21-1990 at 10:45:13
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 98423 uv High Value: 274028 uv Scale factor: 1.0



```
******   INTERNAL STANDARD TABLE   ******
******************** 03-22-1990 08:52:05 Version 4.1 **********************
* Sample Name: METHOD BLANK SF 7035                Data File: E:QP33        *
* Date: 03-20-1990 11:07:50 Method: K:GMET42  03-21-1990 15:06:49  #  48   *
* Interface: 0   Cycle#:  33   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*             Detector 0: ECD QUANT           Detector 1:                 *
* Misc. Information: TREKKER SF 7035                    PE PCBs           *
*************************************************************************
Starting Delay:    1.50                        Ending retention time:    45.00
Area reject:         0                         One sample per    1.000 sec.
Amount injected:        5.00                   Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

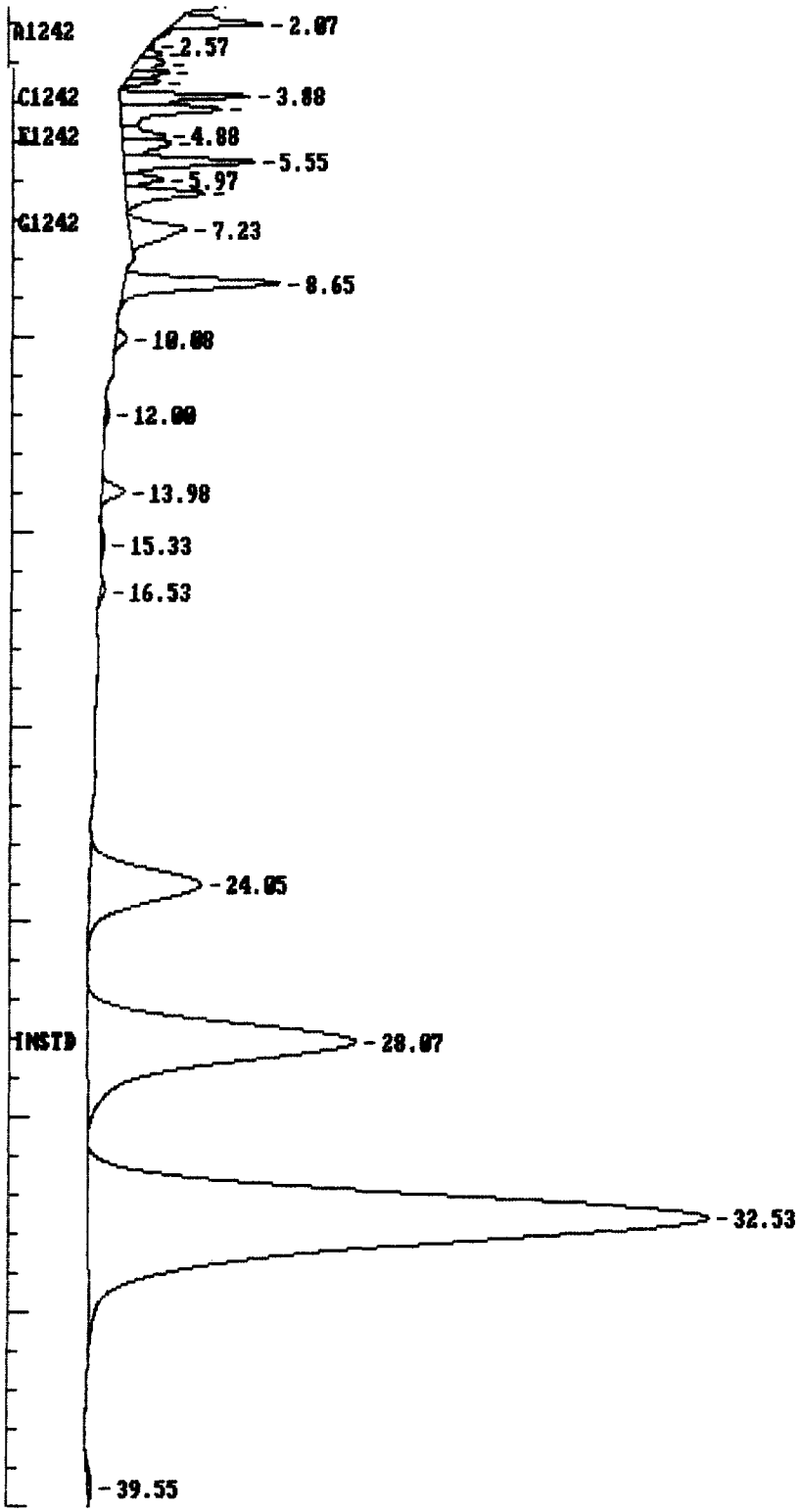
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	2.78	B1242	-0.2513	77.8714%	40746	4032	10.1	2	3	22	0	-6.1678E-06
7	3.88	C1242	-0.1843	57.1211%	319725	28660	11.2	2	7	22	0	-5.7657E-07
8	4.22	D1242	0.2587	-80.1623%	385463	22282	17.3	2	8	22	0	6.7115E-07
9	4.88	E1242	-0.1771	54.8883%	144060	9348	15.4	2	8	22	.7591	-1.2296E-06
11	5.55	F1242	-0.0370	11.4757%	426544	28805	14.8	2	11	22	0	-8.6826E-08
14	7.23	G1242	0.0684	-21.1942%	348846	12601	27.7	1	11	22	2.875	1.9607E-07
22	28.07	INSTD	1.0000	0.0000%	4175878	59041	70.7	2	22	22	0	2.3947E-07

TOTAL AMOUNT = -0.3227

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A1242	2.22	A1242

Data File = E:QP33.PTS Printed on 03-22-1990 at 08:52:25
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Full Range: 200 millivolts



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

********** 03-21-1990 10:28:48 Version 4.1 **********

* Sample Name: SOLVENT BLANK Data File: E:QP20 *
* Date: 03-20-1990 02:03:01 Method: K:1PESTA 03-21-1990 10:25:56 # 59 *
* Interface: 0 Cycle#: 20 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER SF7035 PE PCBs *

****

Starting Delay: 1.50 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

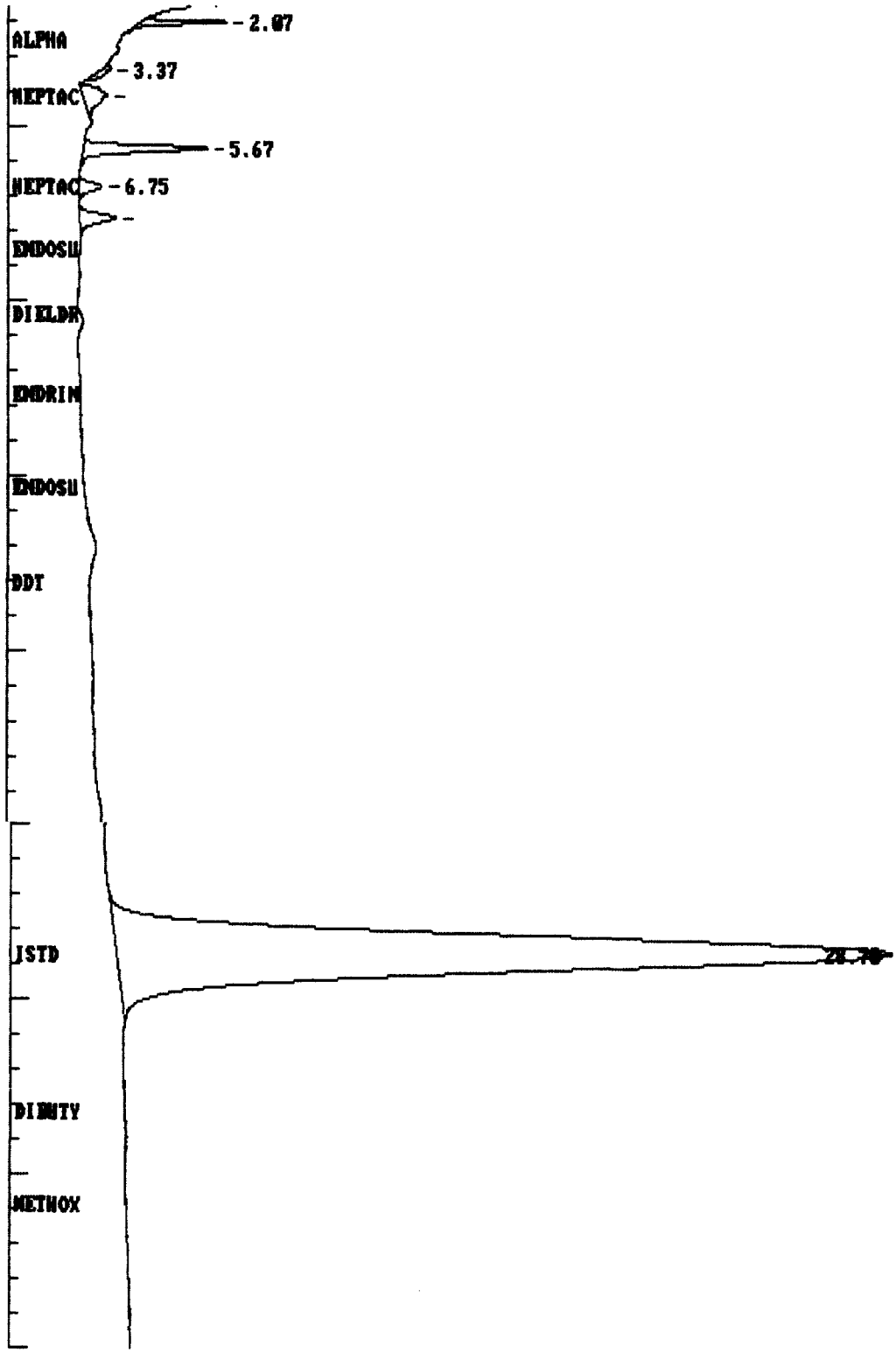
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	3.37	LINDANE	-0.0002	13.6942%	21471	768	28.0	1	2	7	0	-8.5446E-09
3	4.10	HEPTACHLOR	-0.0003	24.7389%	51638	1764	29.3	1	3	7	0	-6.4181E-09
5	6.75	HEPTACHLOR EPOXIDE	-0.0008	61.5669%	27180	1615	16.8	1	5	7	0	-3.0346E-08
7	28.70	ISTD	1.0000	0.0000%	3807769	55782	68.3	1	7	7	0	2.6262E-07

TOTAL AMOUNT = -0.0013

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALPHA BHC	2.55	ALPHA BHC
ALDRIN	4.95	ALDRIN
ENDOSULFAN I	8.51	ENDOSULFAN I
DIELDRIN	10.41	DIELDRIN
ENDRIN	12.64	ENDRIN
ENDOSULFAN II	15.35	ENDOSULFAN II
DDT	18.08	DDT
DIBUTYLCHLOR	33.19	DIBUTYLCHLOR
METHOXYCHLOR	35.89	METHOXYCHLOR

Data File = E:QP20.PTS Printed on 03-21-1990 at 10:29:07
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 85360 uv High Value: 143816 uv Scale factor: 1.0



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

********** 03-21-1990 12:46:54 Version 4.1 **********

* Sample Name: SOLVENT BLANK Data File: E:QP20 *
* Date: 03-20-1990 02:03:01 Method: K:1PESTB 03-21-1990 12:44:36 # 32 *
* Interface: 0 Cycle#: 20 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER SF7035 PE PCBs *

****

Starting Delay: 1.50 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

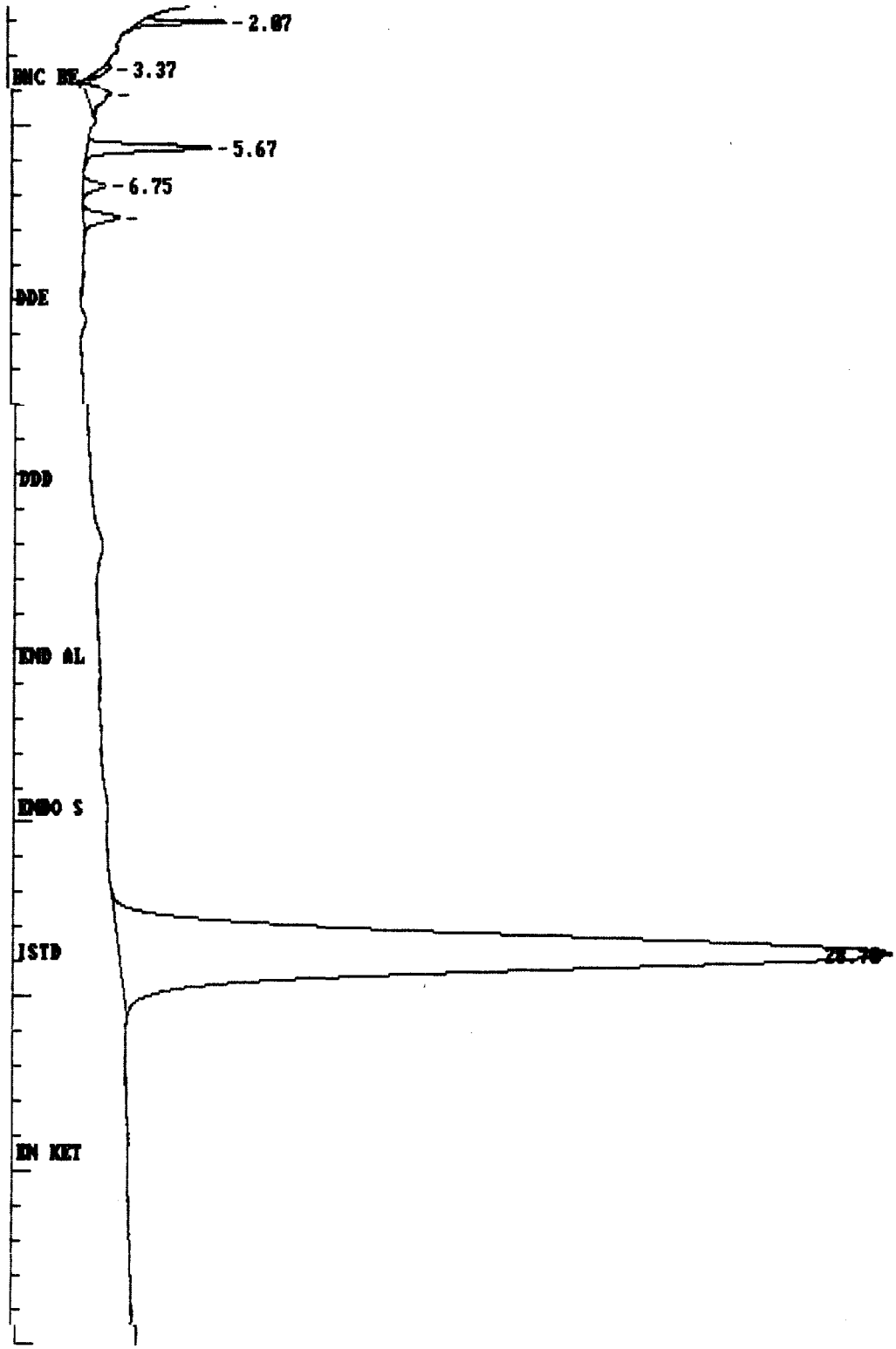
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	HEIGHT BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	4.10	BHC DELTA	0.0002	100.0000%	51638	1764	29.3	1	3	7	0	4.5968E-09
7	28.70	ISTD	1.0000	0.0000%	3807769	55782	68.3	1	7	7	0	2.6262E-07

TOTAL AMOUNT = 0.0002

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
BHC BETA	3.57	BHC BETA
DDE	9.91	DDE
DDD	15.17	DDD
END ALDEHYDE	20.24	END ALDEHYDE
ENDO SULFATE	24.55	ENDO SULFATE
EN KETONE	34.44	EN KETONE

Data File = E:QP20.PTS Printed on 03-21-1990 at 12:47:09
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 85360 uv High Value: 143816 uv Scale factor: 1.0



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

********** 03-21-1990 11:18:53 Version 4.1 **********

* Sample Name: 90FD10S38 Data File: E:QP36 *
* Date: 03-20-1990 13:02:10 Method: K:1PESTA 03-21-1990 10:25:56 # 59 *
* Interface: 0 Cycle#: 36 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER SF 7035 PE PCBs *

****

Starting Delay: 1.50 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

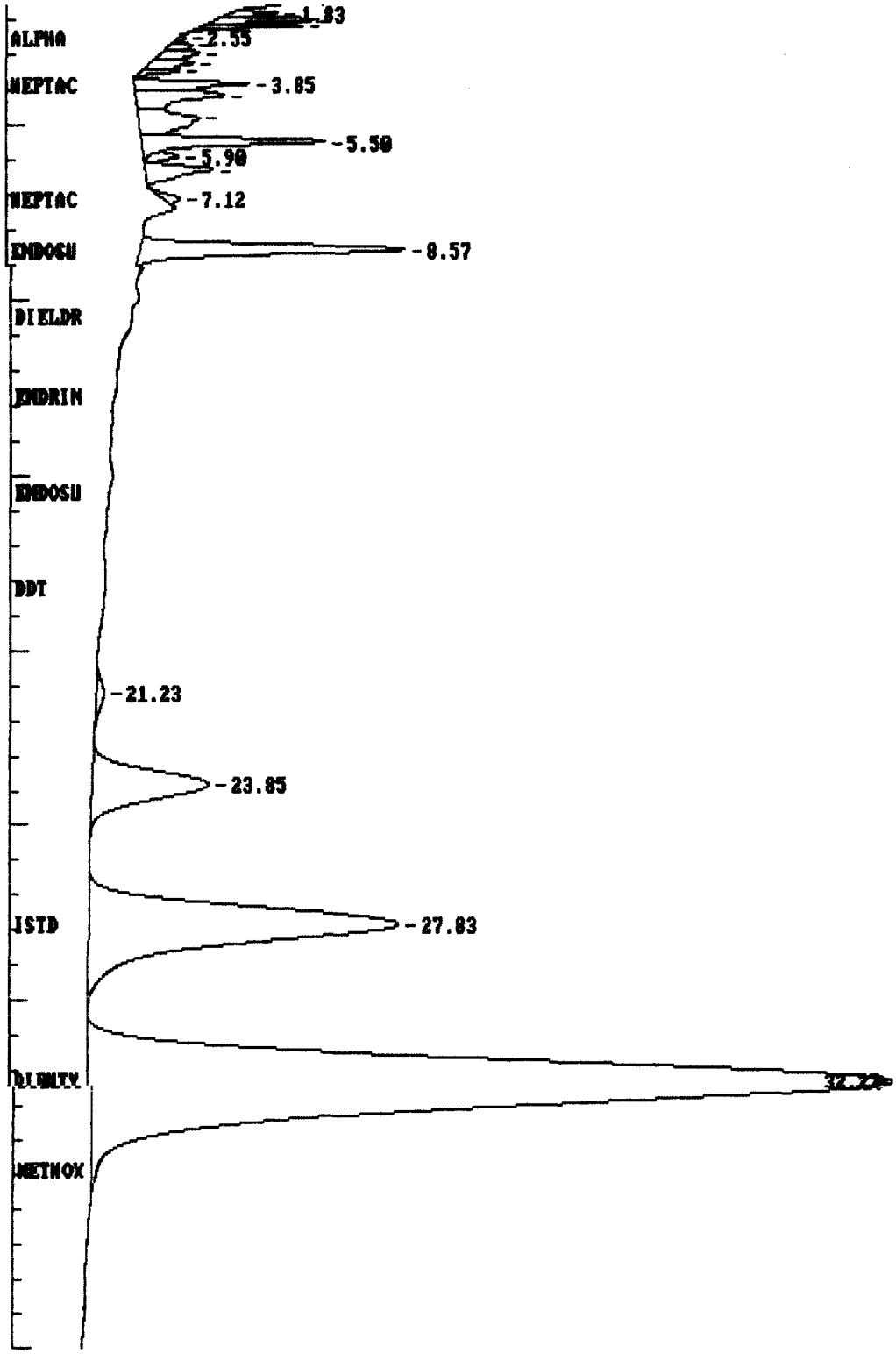
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	2.55	~~ALPHA BHC~~ BLS	~~0.0018~~	0.1881%	14164	1703	8.3	2	4	19	0	1.2532E-07
7	3.23	~~LINDANE~~ BLS	~~0.0014~~	0.1522%	95872	8315	11.5	2	7	19	0	1.4981E-08
9	3.85	~~HEPTACHLOR~~ BLS	~~0.0057~~	0.6055%	247159	21259	11.6	2	9	19	0	2.3119E-08
11	4.82	~~ALDRIN~~ BLS	~~0.0107~~	1.1353%	344034	11354	30.3	2	11	19	0	3.1142E-08
15	7.12	~~HEPTACHLOR EPOXIDE~~ BLS	~~-0.0076~~	-0.8019%	42729	2784	15.3	1	15	19	0	-1.7712E-07
16	8.57	~~ENDOSULFAN I~~ N.C.	~~0.0398~~	4.2187%	946900	48874	19.4	1	16	19	0	4.2045E-08
19	27.83	ISTD	1.0000	0.0000%	4022422	57145	70.4	1	19	19	0	2.4861E-07
20	32.27	DIBUTYLCHLOR	0.8918	94.5022%	13308022	148522	89.6	1	20	19	0	6.7015E-08

TOTAL AMOUNT = 0.9437

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
DIELDRIN	10.48	DIELDRIN
ENDRIN	12.73	ENDRIN
ENDOSULFAN II	15.46	ENDOSULFAN II
DDT	18.20	DDT
METHOXYCHLOR	34.88	METHOXYCHLOR

Data File = E:QP36.PTS Printed on 03-21-1990 at 11:19:15
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 106275 uv High Value: 256233 uv Scale factor: 1.0



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

********** 03-21-1990 11:34:38 Version 4.1 **********

* Sample Name: 90FD10S38 Data File: W:2FT24 *
* Date: 03-20-1990 05:33:02 Method: W:CONFA 03-21-1990 08:43:31 # 31 *
* Interface: 0 Cycle#: 24 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 5 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: SINGLE PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C *
* Detector 0: ECD CONF Detector 1: *
* Misc. Information: TREKKER SF 7035 *

****

Starting Delay: 1.50 Ending retention time: 40.00
Area reject: 30000 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

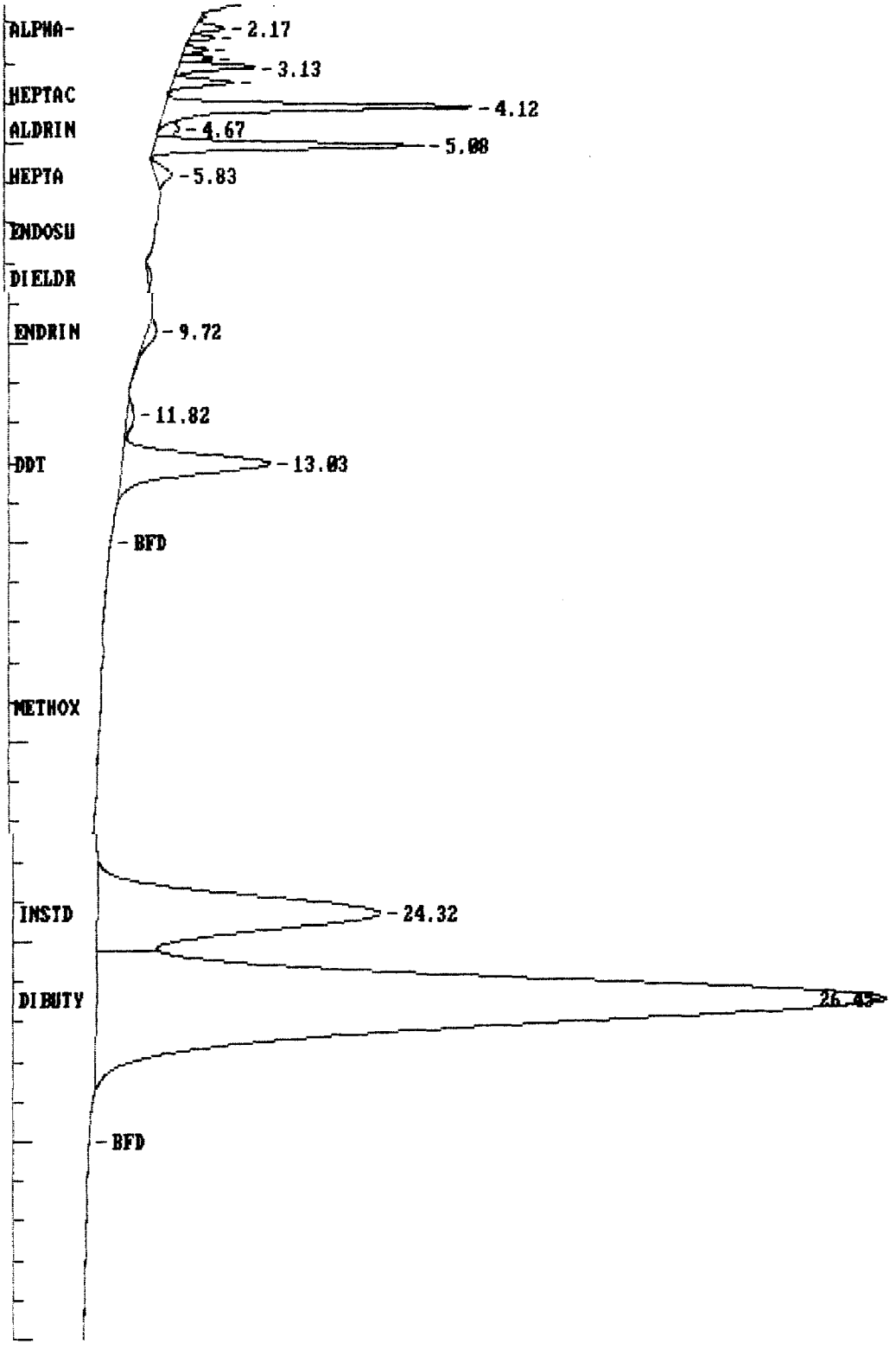
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug\L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	2.17	ALPHA-BHC	0.0025	0.2973%	74130	7439	10.0	2	2	16	0	3.3406E-08
3	2.42	LINDANE	0.0020	0.2449%	53623	6386	8.4	2	3	16	0	3.8043E-08
4	2.70		0.0000	0.0014%	50395	6102	8.3	2		16		2.3517E-10
5	2.90		0.0000	0.0019%	66374	7758	8.6	2		16		2.3517E-10
6	3.13		0.0001	0.0061%	214442	19114	11.2	2		16		2.3517E-10
7	3.52		0.0000	0.0052%	184494	15379	12.0	2		16		2.3517E-10
8	4.12		0.0002	0.0282%	999573	75233	13.3	3		16		2.3517E-10
9	4.67	ALDRIN	0.0029	0.3508%	75103	4976	15.1	4	9	16	0	3.8907E-08
10	5.08		0.0002	0.0238%	842678	65730	12.8	2		16		2.3517E-10
11	5.83	HEPTA EPOXIDE	0.0038	0.4557%	101707	3951	25.7	1	11	16	0	3.7318E-08
13	9.72	ENDRIN+ENDO II	0.0038	0.4618%	91903	2243	41.0	1	13	16	0	4.1850E-08
14	11.82		0.0000	0.0020%	71468	1669	42.8	2		16		2.3517E-10
15	13.03	DDT	0.0786	9.4357%	1264870	36503	34.7	2	15	16	0	6.2132E-08
16	24.32	INSTD MIREX	1.0000	0.0000%	4252171	69079	61.6	2	16	16	0	2.3517E-07
17	26.45	DIBUTYLCHLORENDATE	0.7386	88.6851%	15652816	193032	81.1	2	17	16	0	4.7190E-08

TOTAL AMOUNT = 0.8329

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
HEPTACHLOR	3.81	HEPTACHLOR
ENDOSULFAN I	7.23	ENDOSULFAN I
DIELDRIN	8.38	DIELDRIN
METHOXYCHLOR	19.14	METHOXYCHLOR

Data File = W:2FT24.PTS Printed on 03-21-1990 at 11:35:10
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 100827 uv High Value: 297117 uv Scale factor: 1.0



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

********** 03-21-1990 13:25:42 Version 4.1 **********

* Sample Name: 90FD10S38 Data File: E:QP36 *
* Date: 03-20-1990 13:02:10 Method: K:1PESTB 03-21-1990 12:44:36 # 32 *
* Interface: 0 Cycle#: 36 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER SF 7035 PE PCBs *

****

Starting Delay: 1.50 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

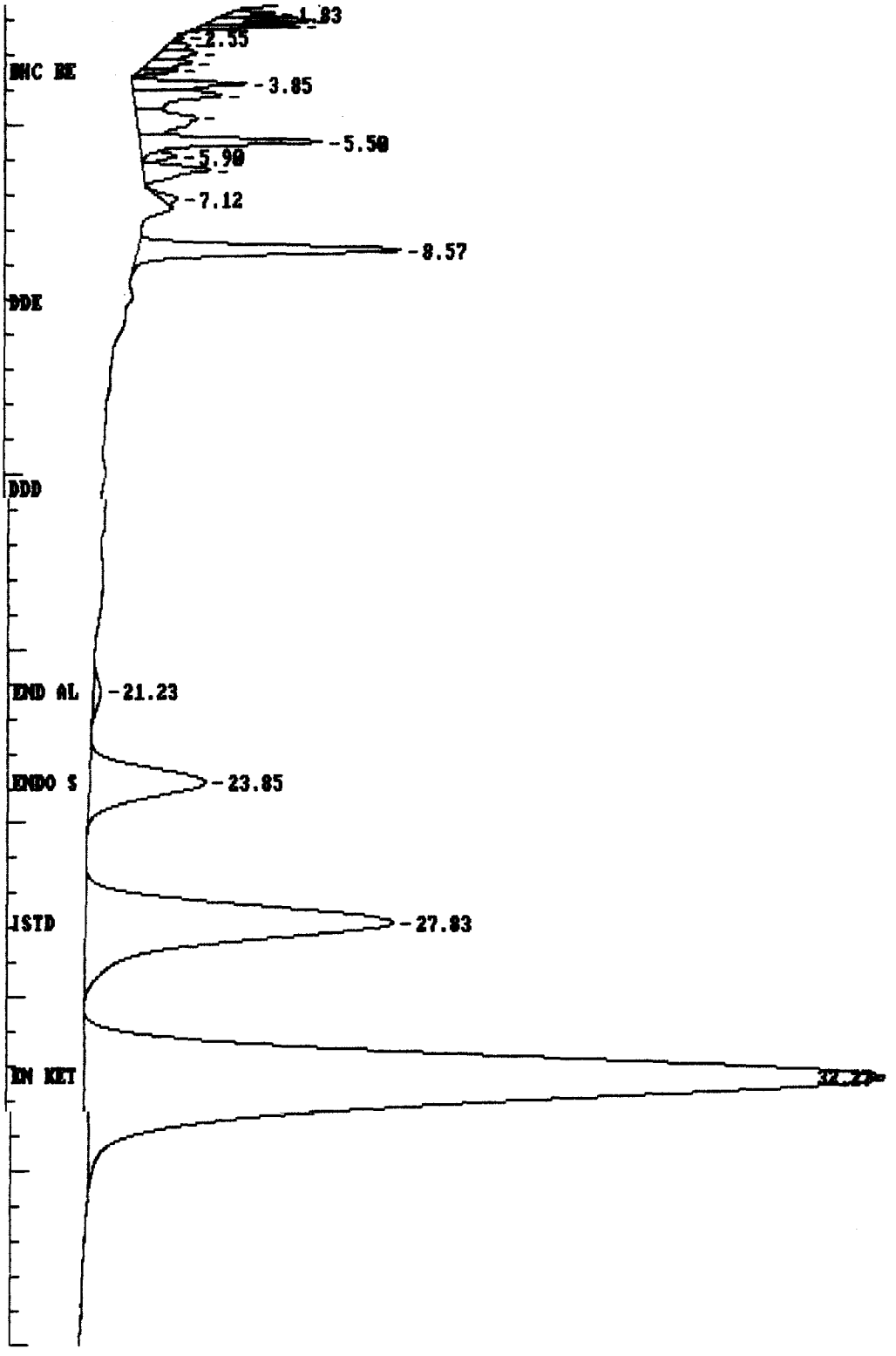
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
8	3.45	~~BHC BETA~~ BCS	~~0.0018~~	-0.1625%	85822	7280	11.8	2	8	19	0	-2.1118E-08
10	4.17	~~BHC DELTA~~ BCS	~~0.0160~~	1.4358%	363664	16392	22.2	2	10	19	0	4.4034E-08
17	21.23	~~END ALDEHYDE~~ BCS	~~0.0047~~	-0.4254%	83451	1429	58.4	1	17	19	0	-5.6849E-08
18	23.85	~~ENDO SULFATE~~ BCS	~~0.0821~~	7.3569%	1215912	21576	56.4	1	18	19	0	6.7481E-08
19	27.83	ISTD	1.0000	0.0000%	4022422	57145	70.4	1	19	19	0	2.4861E-07
20	32.27	~~EN KETONE~~ DBC	~~1.0238~~	91.7952%	13308022	148522	89.6	1	20	19	0	7.6930E-08

TOTAL AMOUNT = 1.1153

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
DDE	10.07	DDE
DDD	15.41	DDD

Data File = E:QP36.PTS Printed on 03-21-1990 at 13:26:02
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 106275 uv High Value: 256233 uv Scale factor: 1.0



INTERNAL STANDARD TABLE

```
******************** 03-21-1990 10:56:58 Version 4.1 ********************
* Sample Name: 90FD10S38                          Data File: W:2FT24      *
* Date: 03-20-1990 05:33:02 Method: W:CONFB  03-21-1990 08:43:48  #  23   *
* Interface: 0   Cycle#:  24   Operator AK  Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 5  Area Threshold: 1000           *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE         *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                         *
*             Detector 0: ECD CONF            Detector 1:                 *
* Misc. Information: TREKKER SF 7035                                      *
*************************************************************************
Starting Delay:    1.50                    Ending retention time:    40.00
Area reject:     30000                     One sample per    1.000 sec.
Amount injected:        5.00               Dilution factor:        10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

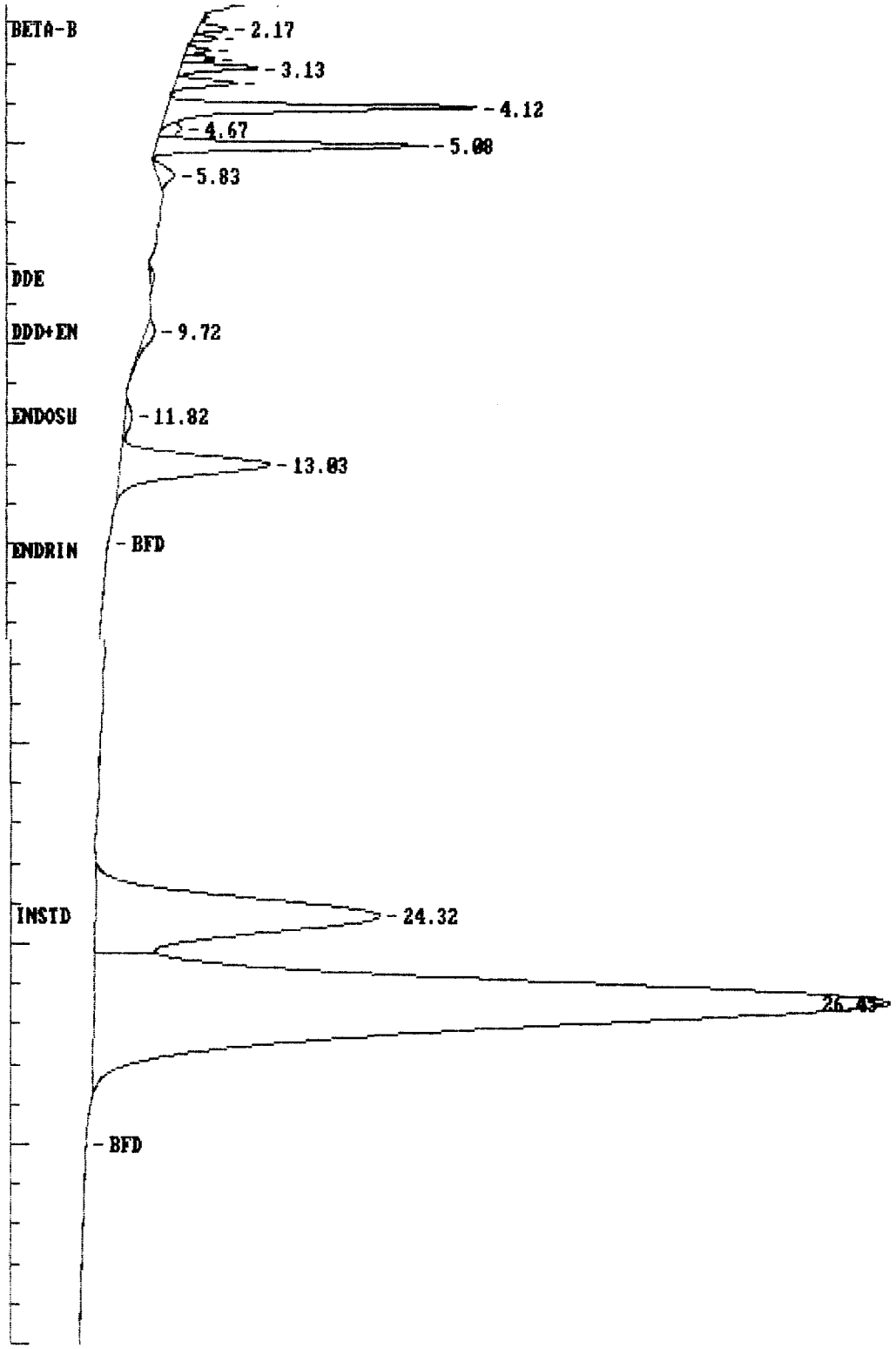
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug\L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	2.17	BETA-BHC	0.0046	15.5262%	74130	7439	10.0	2	2	16	0	6.2218E-08
3	2.42	DELTA-BHC	0.0042	14.0782%	53623	6386	8.4	2	3	16	0	7.7991E-08
4	2.70		0.0000	0.0399%	50395	6102	8.3	2		16		2.3517E-10
5	2.90		0.0000	0.0525%	66374	7758	8.6	2		16		2.3517E-10
6	3.13		0.0001	0.1698%	214442	19114	11.2	2		16		2.3517E-10
7	3.52		0.0000	0.1461%	184494	15379	12.0	2		16		2.3517E-10
8	4.12		0.0002	0.7913%	999573	75233	13.3	3		16		2.3517E-10
9	4.67		0.0000	0.0595%	75103	4976	15.1	4		16		2.3517E-10
10	5.08		0.0002	0.6671%	842678	65730	12.8	2		16		2.3517E-10
11	5.83		0.0000	0.0805%	101707	3951	25.7	1		16		2.3517E-10
13	9.72	DDD+ENDRINALDE	0.0060	20.0473%	91903	2243	41.0	1	13	16	0	6.4799E-08
14	11.82	ENDOSULFAN S04	0.0104	34.9484%	71468	1669	42.8	2	14	16	0	1.4526E-07
15	13.03		0.0003	1.0014%	1264870	36503	34.7	2		16		2.3517E-10
16	24.32	INSTD MIREX	1.0000	0.0000%	4252171	69079	61.6	2	16	16	0	2.3517E-07
17	26.45		0.0037	12.3919%	15652816	193032	81.1	2		16		2.3517E-10

TOTAL AMOUNT = 0.0297

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
DDE	8.38	DDE
ENDRIN KETONE	15.17	ENDRIN KETONE

Data File = W:2FT24.PTS Printed on 03-21-1990 at 10:57:28
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 100827 uv High Value: 297117 uv Scale factor: 1.0

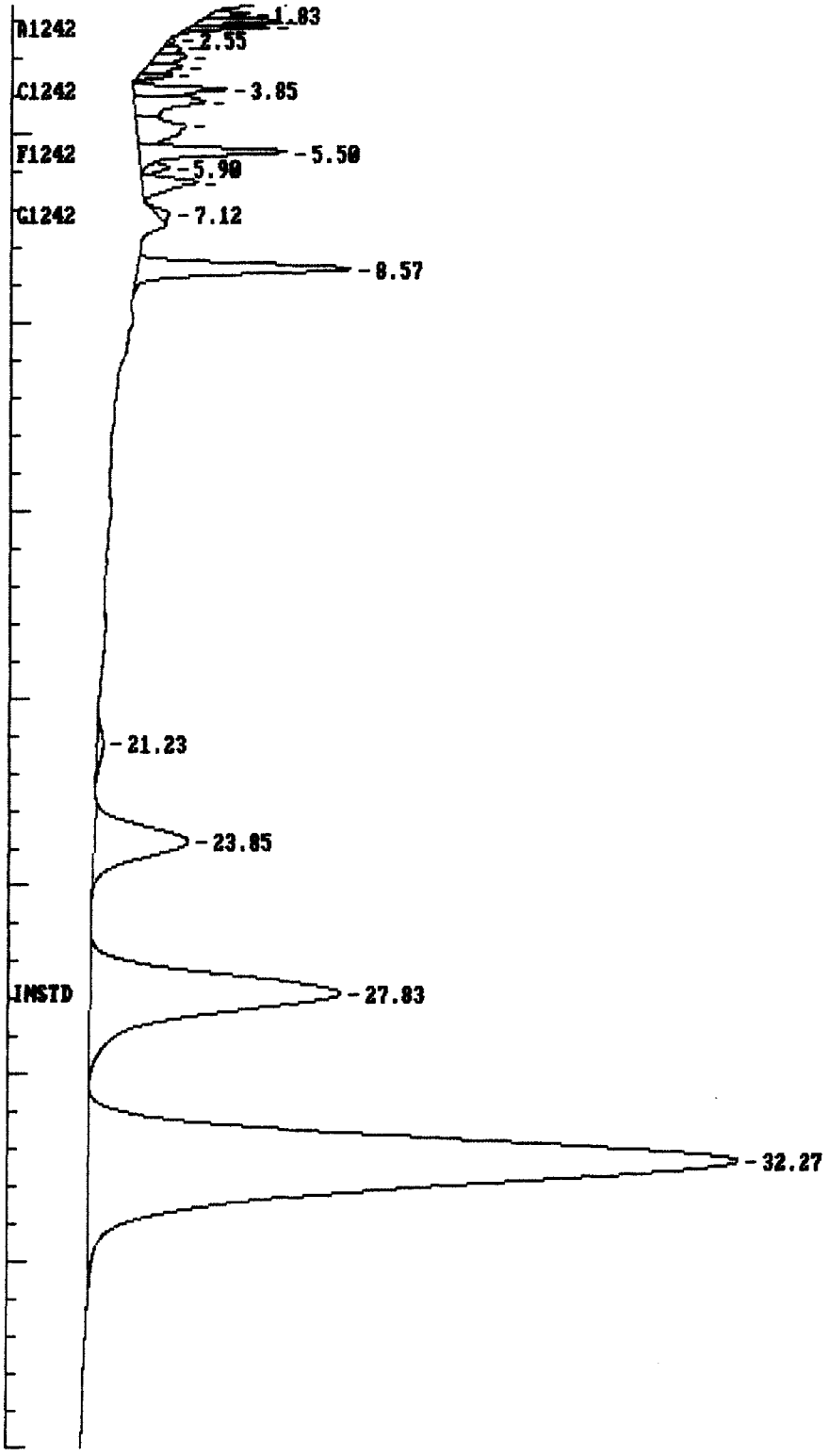


```
******    INTERNAL STANDARD TABLE    ******
******************** 03-21-1990 15:20:05 Version 4.1 **********************
* Sample Name: 90FD10S3B                          Data File: E:QP36        *
* Date: 03-20-1990 13:02:10 Method: K:GMET42  03-21-1990 15:06:49  #  48  *
* Interface: 0   Cycle#:  36   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
***************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*             Detector 0: ECD QUANT           Detector 1:                 *
* Misc. Information: TREKKER SF 7035                     PE PCBs          *
***************************************************************************
Starting Delay:    1.50                        Ending retention time:    45.00
Area reject:         0                         One sample per    1.000 sec.
Amount injected:        5.00                   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	2.20	A1242	-0.0191	6.5800%	127983	18847	6.8	2	3	19	0	-1.4899E-07
5	2.75	B1242	-0.2501	86.3134%	40258	4339	9.3	2	5	19	0	-6.2130E-06
9	3.85	C1242	-0.2287	78.9253%	247159	21259	11.6	2	9	19	0	-9.2538E-07
10	4.17	D1242	0.2477	-85.4741%	363664	16392	22.2	2	10	19	0	6.8111E-07
11	4.82	E1242	0.0266	-9.1674%	344034	11354	30.3	2	11	19	0	7.7219E-08
12	5.50	F1242	0.1174	-40.4974%	526565	33792	15.6	3	12	19	0	2.2287E-07
15	7.12	G1242	-0.1835	63.3202%	42729	2784	15.3	1	15	19	0	-4.2944E-06
19	27.83	INSTD	1.0000	0.0000%	4022422	57145	70.4	1	19	19	0	2.4861E-07

TOTAL AMOUNT = -0.2898

Data File = E:QP36.PTS Printed on 03-21-1990 at 15:20:25
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Full Range: 200 millivolts



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

********** 03-21-1990 11:20:13 Version 4.1 **********

* Sample Name: 90FD10S39 Data File: E:QP37 *
* Date: 03-20-1990 13:43:23 Method: K:1PESTA 03-21-1990 10:25:56 # 59 *
* Interface: 0 Cycle#: 37 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER SF7035 PE PCBs *

****

Starting Delay: 1.50 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

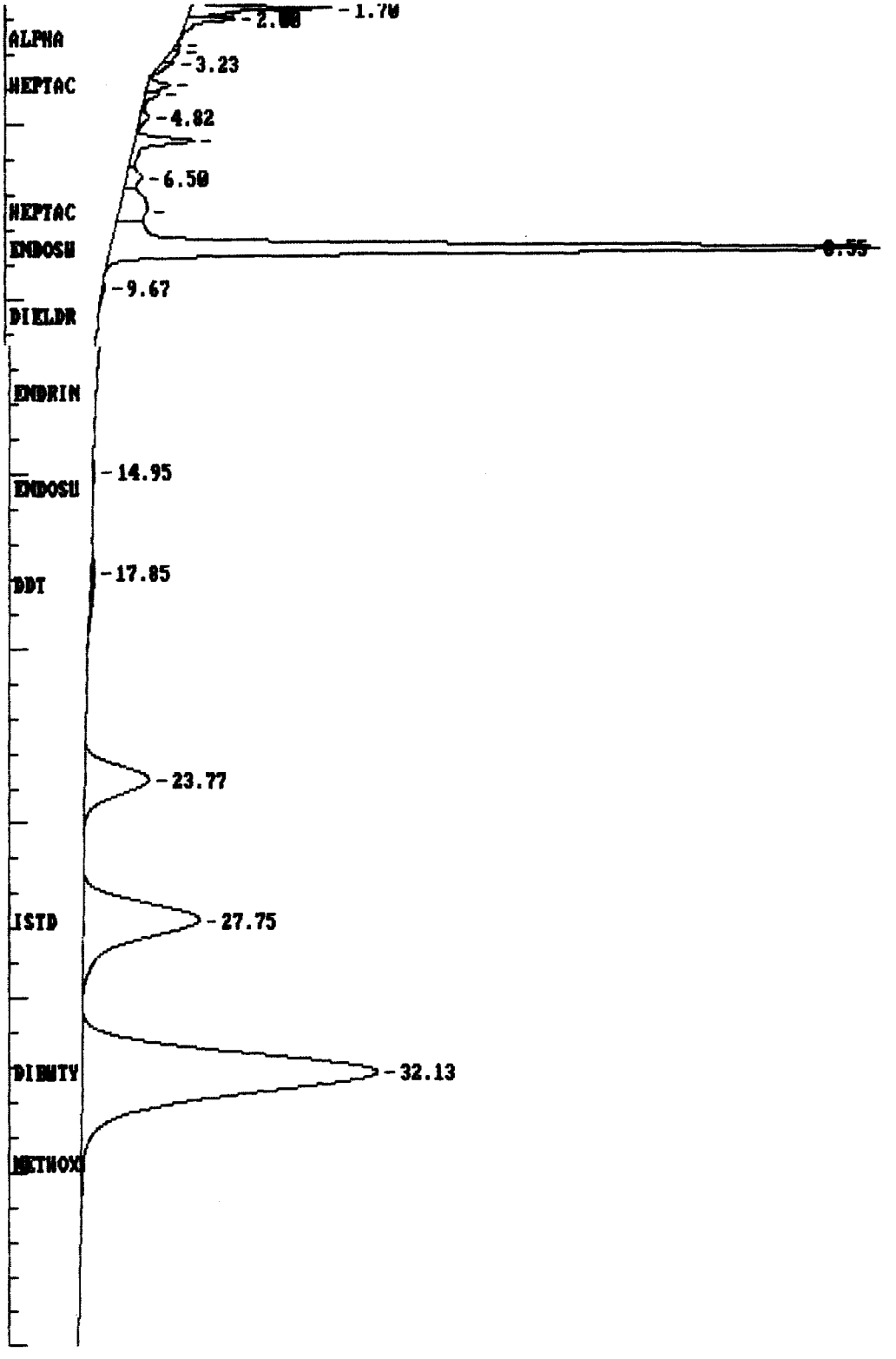
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
5	3.23	~~LINDANE~~ BLS	~~0.0028~~	0.2320%	126067	6478	19.5	2	5	17	0	2.2064E-08
6	3.88	~~HEPTACHLOR~~ BLS	~~0.0017~~	0.1453%	162542	11580	14.0	2	6	17	0	1.0718E-08
8	4.82	~~ALDRIN~~ BLS	~~-0.0007~~	-0.0577%	97738	4680	20.9	2	8	17	0	-7.0751E-09
11	7.43	~~HEPTACHLOR EPOXIDE~~ BLS	~~0.0234~~	1.9503%	681457	13958	48.8	2	11	17	0	3.4318E-08
12	8.55	~~ENDOSULFAN I~~ N,C,	~~0.3528~~	29.4231%	7275227	378287	19.2	2	12	17	0	4.8496E-08
14	14.95	~~ENDOSULFAN II~~ BLS	~~-0.0077~~	-0.6404%	19124	626	30.5	1	12	17	-3.099	-4.0154E-07
15	17.85	~~DDT~~ BLS	~~-0.0138~~	1.1490%	136419	1214	112.4	1	12	17	-1.743	1.0099E-07
17	27.75	ISTD	1.0000	0.0000%	4025398	57325	70.2	1	17	17	0	2.4842E-07
18	32.13	DIBUTYLCHLOR	0.8130	67.7984%	12186730	145357	83.8	1	18	17	0	6.6711E-08

TOTAL AMOUNT = 1.1991

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALPHA BHC	2.55	ALPHA BHC
DIELDRIN	10.46	DIELDRIN
ENDRIN	12.71	ENDRIN
METHOXYCHLOR	34.74	METHOXYCHLOR

Data File = E:QP37.PTS Printed on 03-21-1990 at 11:20:38
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 109063 uv High Value: 504825 uv Scale factor: 1.0



```
*****    INTERNAL STANDARD TABLE    *****
******************** 03-21-1990 10:58:24 Version 4.1 **********************
* Sample Name: 90FD10S39                          Data File: W:2FT25       *
* Date: 03-20-1990 06:09:27 Method: W:CONFA  03-21-1990 08:43:31  #  31    *
* Interface: 0   Cycle#:  25   Operator AK  Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 5  Area Threshold: 1000            *
***************************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE          *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                          *
*            Detector 0: ECD CONF            Detector 1:                   *
* Misc. Information: TREKKER SF 7035                                       *
***************************************************************************
Starting Delay:    1.50                      Ending retention time:    40.00
Area reject:     30000                       One sample per    1.000 sec.
Amount injected:        5.00                 Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

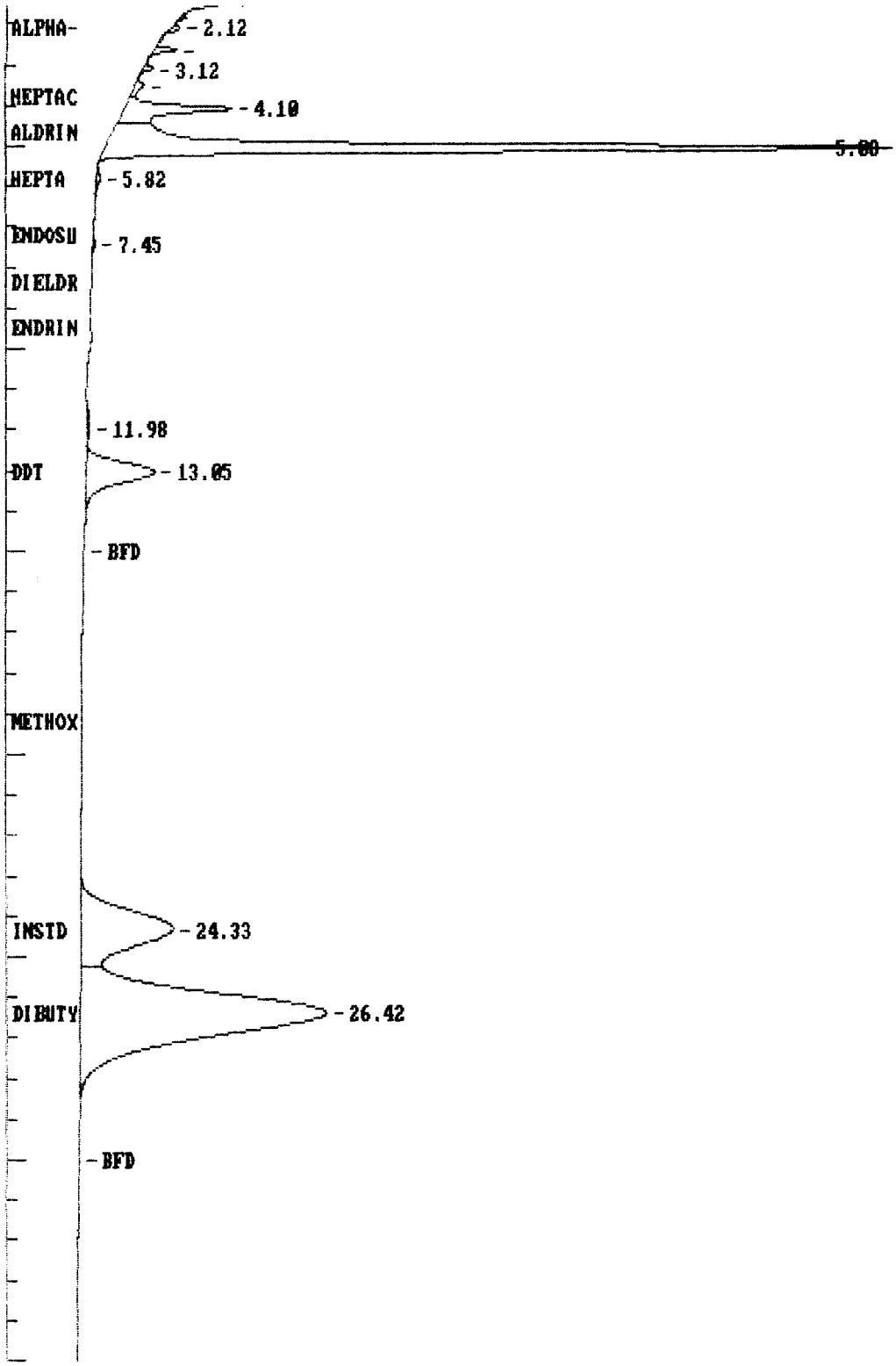
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug\L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	2.12	ALPHA-BHC	0.0025	0.3207%	73211	7063	10.4	2	2	13	0	3.3877E-08
4	2.67		0.0000	0.0041%	132775	17706	7.5	2		13		2.3849E-10
5	3.12		0.0000	0.0020%	66295	7294	9.1	1		13		2.3849E-10
6	3.53		0.0000	0.0038%	122774	7596	16.2	2		13		2.3849E-10
7	4.10		0.0003	0.0407%	1320360	79836	16.5	2		13		2.3849E-10
8	5.08		0.0020	0.2638%	8553068	582355	14.7	2		13		2.3849E-10
9	5.82	HEPTA EPOXIDE	0.0021	0.2721%	55617	2459	22.6	1	9	13	0	3.7844E-08
10	7.45		0.0000	0.0009%	30267	1831	16.5	1		13		2.3849E-10
11	11.98		0.0000	0.0022%	71049	1777	40.0	2		13		2.3849E-10
12	13.05	DDT	0.1104	14.2805%	1752844	50245	34.9	2	12	13	0	6.3008E-08
13	24.33	INSTD MIREX	1.0000	0.0000%	4193046	68090	61.6	2	13	13	0	2.3849E-07
14	26.42	DIBUTYLCHLORENDATE	0.6559	84.8092%	13706092	181646	75.5	2	14	13	0	4.7855E-08

TOTAL AMOUNT = 0.7734

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
LINDANE	2.40	LINDANE
HEPTACHLOR	3.78	HEPTACHLOR
ALDRIN	4.67	ALDRIN
ENDOSULFAN I	7.21	ENDOSULFAN I
DIELDRIN	8.39	DIELDRIN
ENDRIN+ENDO II	9.51	ENDRIN+ENDO II
METHOXYCHLOR	19.16	METHOXYCHLOR

Data File = W:2FT25.PTS Printed on 03-21-1990 at 10:58:54
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 100013 uv High Value: 703398 uv Scale factor: 1.0



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

********** 03-21-1990 13:27:00 Version 4.1 **********

* Sample Name: 90FD10S39 Data File: E:QP37 *
* Date: 03-20-1990 13:43:23 Method: K:1PESTB 03-21-1990 12:44:36 # 32 *
* Interface: 0 Cycle#: 37 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER SF7035 PE PCBs *

****

Starting Delay: 1.50 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

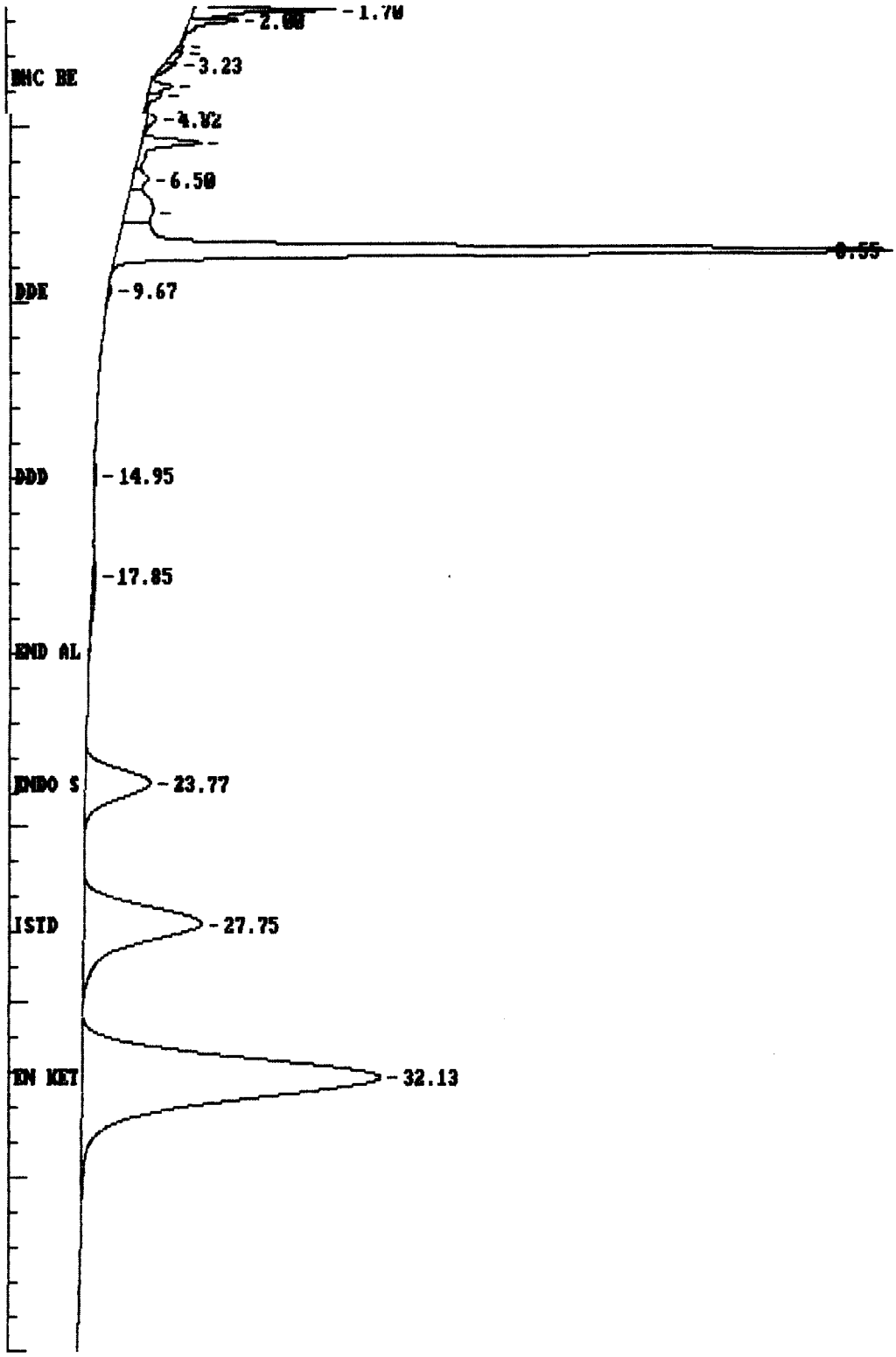
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
7	4.15	~~BHC DELTA~~ BLS	~~0.0052~~	0.4941%	119630	7225	16.6	2	7	17	0	4.3815E-08
13	9.67	~~DDE~~ BLS	~~0.0001~~	-0.0066%	27858	1305	21.3	1	13	17	0	-2.5316E-09
14	14.95	~~DDD~~ BLS	~~0.0030~~	0.2849%	19124	626	30.5	1	14	17	0	1.5803E-07
16	23.77	~~ENDO SULFATE~~ N.C.	~~0.1174~~	11.0687%	1797011	31841	56.4	1	16	17	0	6.5347E-08
17	27.75	ISTD	1.0000	0.0000%	4025398	57325	70.2	1	17	17	0	2.4842E-07
18	32.13	~~EN KETONE~~ DBC	~~0.9353~~	88.1590%	12186730	145357	83.8	1	18	17	0	7.6746E-08

TOTAL AMOUNT = 1.0609

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
BHC BETA	3.57	BHC BETA
END ALDEHYDE	19.95	END ALDEHYDE

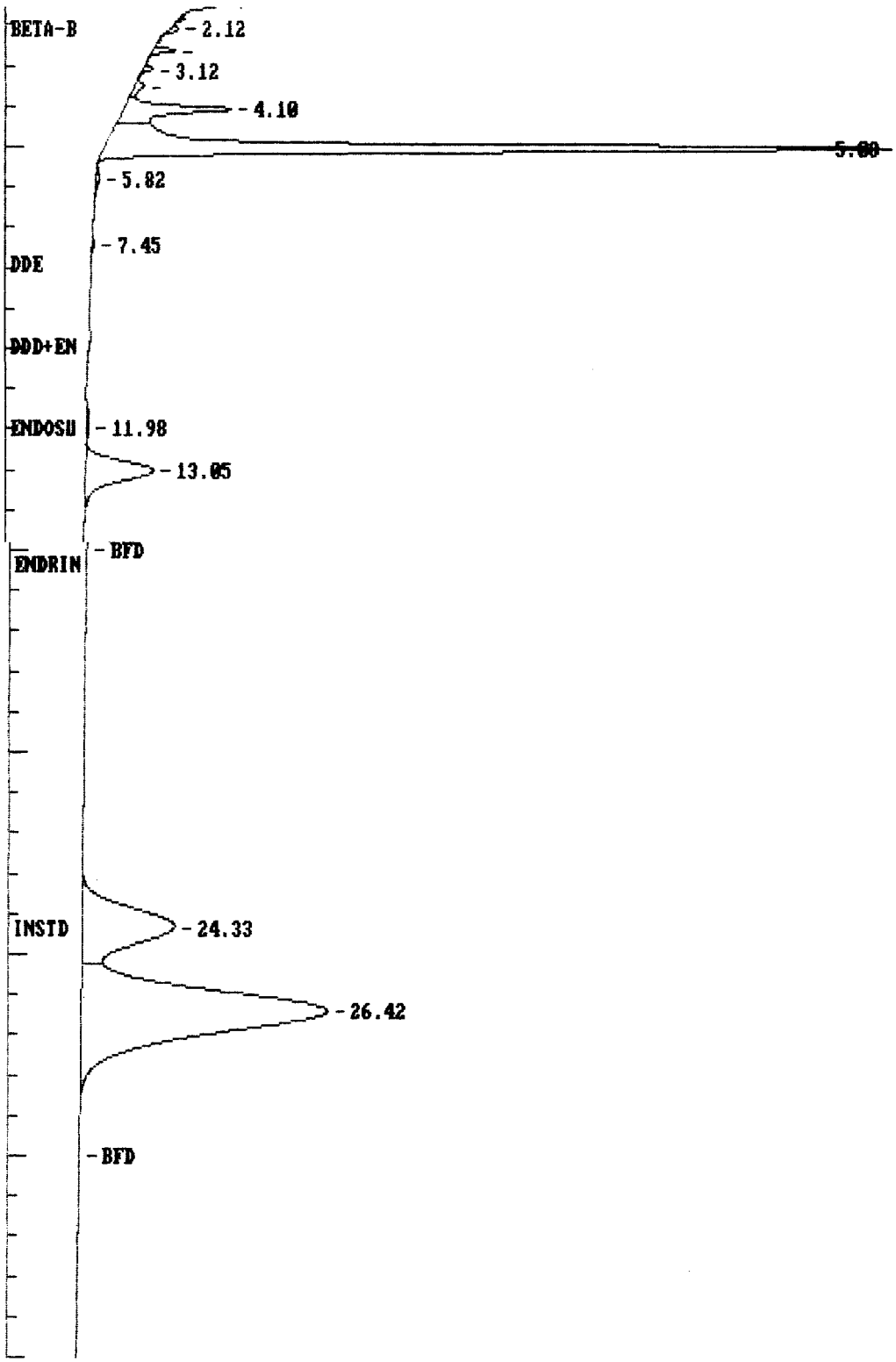
Data File = E:QP37.PTS Printed on 03-21-1990 at 13:27:20
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 109063 uv High Value: 504825 uv Scale factor: 1.0



```
******   INTERNAL STANDARD TABLE   ******
******************** 03-21-1990 10:40:52 Version 4.1 **********************
* Sample Name: 90FD10S39                          Data File: W:2FT25        *
* Date: 03-20-1990 06:09:27 Method: W:CONFB  03-21-1990 08:43:48  #  23    *
* Interface: 0   Cycle#:  25   Operator AK  Channel#: 0    Vial#: N.A.      *
* Starting Peak Width:  10   Threshold: 5  Area Threshold: 1000             *
*****************************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE           *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                           *
*            Detector 0: ECD CONF            Detector 1:                    *
* Misc. Information: TREKKER SF 7035                                        *
*****************************************************************************
Starting Delay:    1.50                      Ending retention time:    40.00
Area reject:     30000                       One sample per    1.000 sec.
Amount injected:        5.00                 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	2.12	BETA-BHC	0.0046	21.7640%	73211	7063	10.4	2	2	13	0	6.3096E-08
4	2.67		0.0000	0.1492%	132775	17706	7.5	2		13		2.3849E-10
5	3.12		0.0000	0.0745%	66295	7294	9.1	1		13		2.3849E-10
6	3.53		0.0000	0.1380%	122774	7596	16.2	2		13		2.3849E-10
7	4.10		0.0003	1.4836%	1320360	79836	16.5	2		13		2.3849E-10
8	5.08		0.0020	9.6108%	8553068	582355	14.7	2		13		2.3849E-10
9	5.82		0.0000	0.0625%	55617	2459	22.6	1		13		2.3849E-10

Data File = W:2FT25.PTS Printed on 03-21-1990 at 10:41:20
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 100013 uv High Value: 703398 uv Scale factor: 1.0



```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 15:21:21 Version 4.1 **********************
* Sample Name: 90FD10S39                          Data File: E:QP37        *
* Date: 03-20-1990 13:43:23 Method: K:GMET42  03-21-1990 15:06:49  #  48  *
* Interface: 0   Cycle#:  37   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
***********************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD QUANT            Detector 1:                 *
* Misc. Information: TREKKER SF7035                      PE PCBs          *
***********************************************************************
Starting Delay:    1.50                        Ending retention time:    45.00
Area reject:         0                         One sample per    1.000 sec.
Amount injected:        5.00                   Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

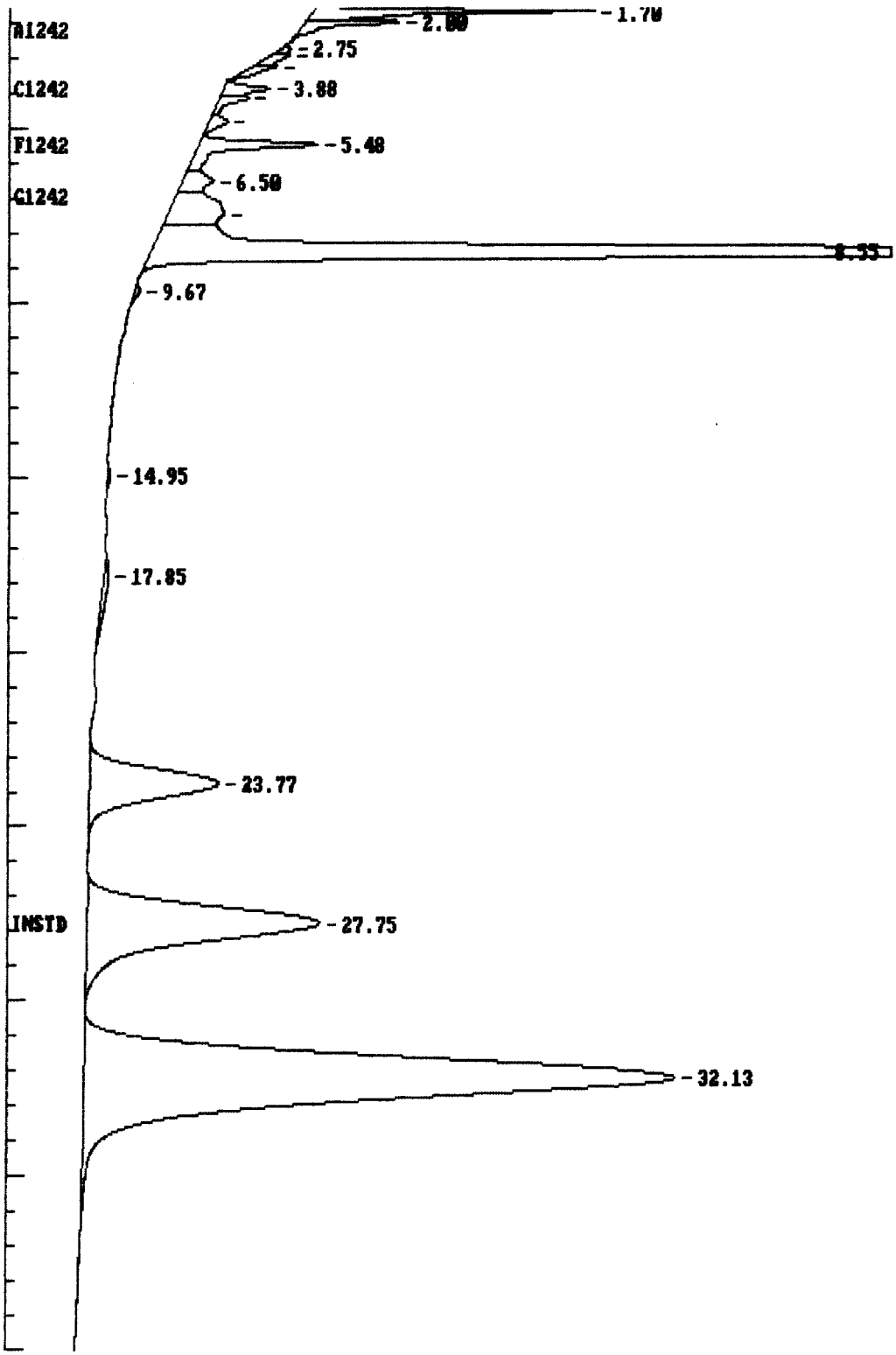
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	2.92	B1242	-0.1822	30.7895%	98126	4892	20.1	2	4	17	0	-1.8568E-06
6	3.88	C1242	-0.2905	49.0970%	162542	11580	14.0	2	6	17	0	-1.7875E-06
8	4.82	E1242	-0.2179	36.8267%	97738	4680	20.9	2	8	17	0	-2.2297E-06
9	5.48	F1242	0.0989	-16.7132%	513116	29456	17.4	2	9	17	0	1.9275E-07
17	27.75	INSTD	1.0000	0.0000%	4025398	57325	70.2	1	17	17	0	2.4842E-07

TOTAL AMOUNT = -0.5918

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A1242	2.22	A1242
D1242	3.88	D1242
G1242	6.95	G1242

Data File = E:QP37.PTS Printed on 03-21-1990 at 15:21:40
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Full Range: 200 millivolts



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

********** 03-21-1990 11:21:32 Version 4.1 **********

* Sample Name: 90FD10D39 Data File: E:QP38 *
* Date: 03-20-1990 14:24:34 Method: K:1PESTA 03-21-1990 10:25:56 # 59 *
* Interface: 0 Cycle#: 38 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER SF 7035 PE PCBs *

Starting Delay: 1.50 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

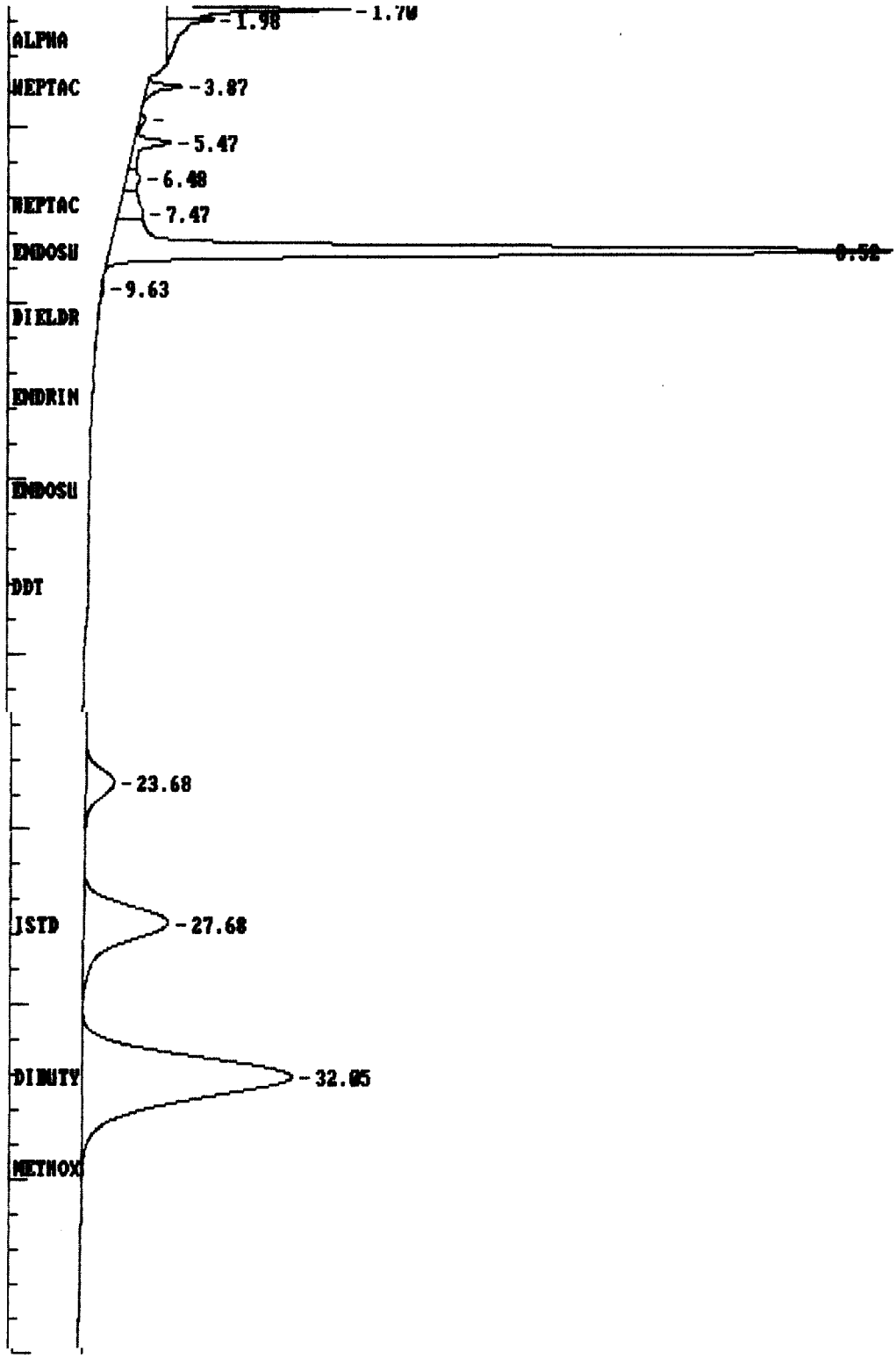
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	3.87	~~HEPTACHLOR~~ BLS	~~0.0071~~	0.6762%	319998	24271	13.2	2	3	11	0	2.8300E-08
4	4.80	~~ALDRIN~~ BLS	~~-0.0007~~	-0.0529%	97768	4866	20.1	2	4	11	0	-7.2479E-09
7	7.47	~~HEPTACHLOR EPOXIDE~~ BLS	~~0.0241~~	1.7983%	698704	17490	39.9	2	4	11	4.068	3.4469E-08
8	8.52	~~ENDOSULFAN I~~ N.C.	~~0.5132~~	38.3173%	10559882	533859	19.8	2	8	11	0	4.8596E-08
11	27.68	ISTD	1.0000	0.0000%	4041926	57667	70.1	1	11	11	0	2.4741E-07
12	32.05	DIBUTYLCHLOR	0.7937	59.2612%	11958344	142905	83.7	1	12	11	0	6.6368E-08

TOTAL AMOUNT = 1.3393

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALPHA BHC	2.55	ALPHA BHC
LINDANE	3.22	LINDANE
DIELDRIN	10.42	DIELDRIN
ENDRIN	12.66	ENDRIN
ENDOSULFAN II	15.37	ENDOSULFAN II
DDT	18.10	DDT
METHOXYCHLOR	34.65	METHOXYCHLOR

Data File = E:QP38.PTS Printed on 03-21-1990 at 11:21:54
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 111440 uv High Value: 666459 uv Scale factor: 1.0



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

********** 03-21-1990 10:59:46 Version 4.1 **********

* Sample Name: 90FD10D39 Data File: W:2FT30 *
* Date: 03-20-1990 10:01:10 Method: W:CONFA 03-21-1990 08:43:31 # 31 *
* Interface: 0 Cycle#: 30 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 5 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: SINGLE PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C *
* Detector 0: ECD CONF Detector 1: *
* Misc. Information: TREKKER SF 7035 *

****

Starting Delay: 1.50 Ending retention time: 40.00
Area reject: 30000 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

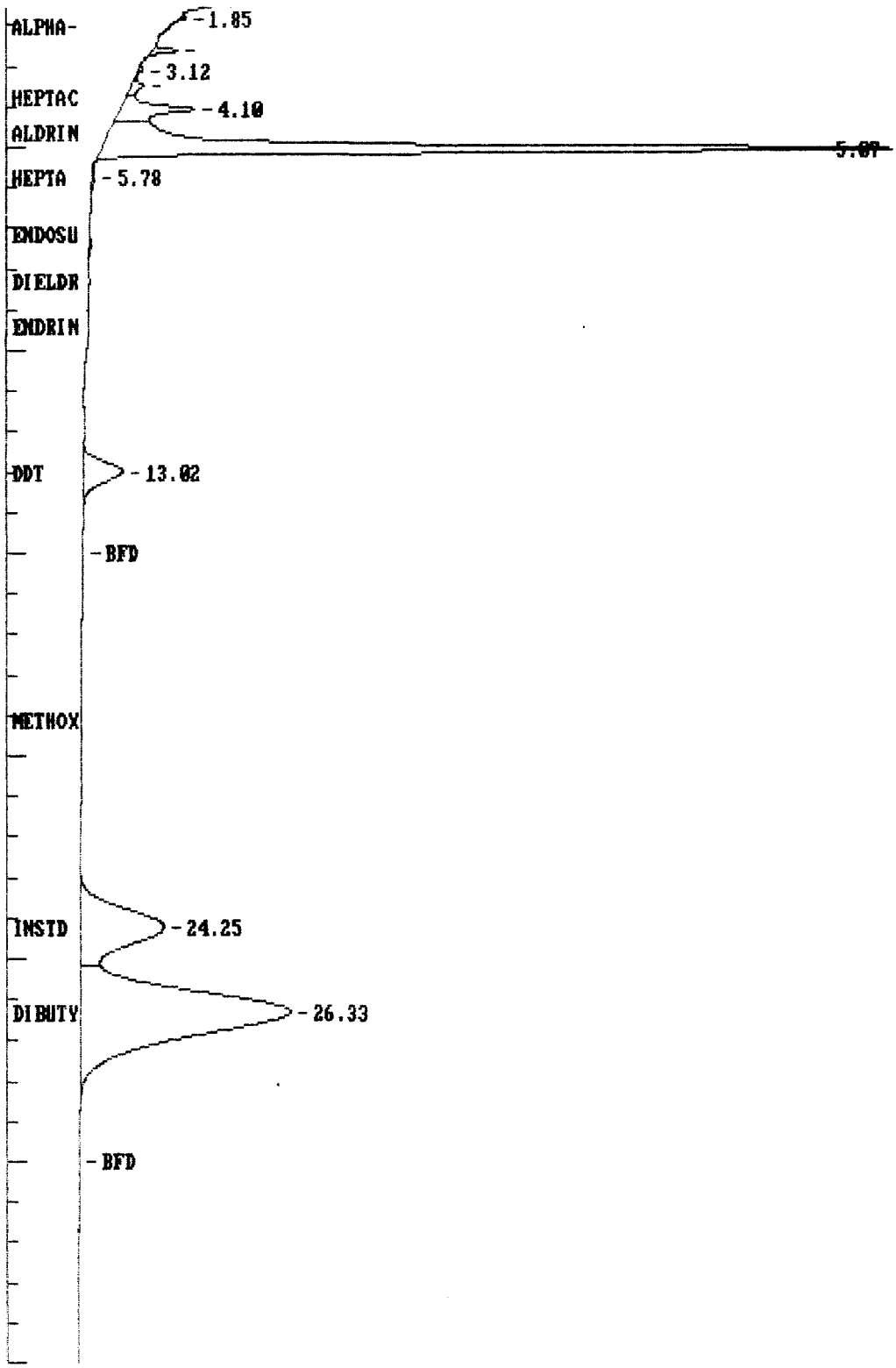
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug\L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
1	1.85		0.0000	0.0018%	56756	6026	9.4	1		10		2.2291E-10
2	2.65		0.0000	0.0061%	189048	23738	8.0	1		10		2.2291E-10
3	3.12		0.0000	0.0018%	54857	4493	12.2	2		10		2.2291E-10
4	3.52		0.0000	0.0064%	199916	11678	17.1	2		10		2.2291E-10
5	4.10		0.0003	0.0390%	1211706	66083	18.3	2		10		2.2291E-10
6	5.07		0.0023	0.3364%	10444234	686768	15.2	2		10		2.2291E-10
7	5.78	HEPTA EPOXIDE	0.0015	0.2191%	42879	1781	24.1	1	7	10	0	3.5372E-08
9	13.02	DDT	0.0671	9.6927%	1139096	33366	34.1	1	9	10	0	5.8892E-08
10	24.25	INSTD MIREX	1.0000	0.0000%	4486134	72446	61.9	2	10	10	0	2.2291E-07
11	26.33	DIBUTYLCHLORENDATE	0.6208	89.6966%	13879068	181852	76.3	2	11	10	0	4.4728E-08

TOTAL AMOUNT = 0.6921

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALPHA-BHC	2.05	ALPHA-BHC
LINDANE	2.40	LINDANE
HEPTACHLOR	3.78	HEPTACHLOR
ALDRIN	4.67	ALDRIN
ENDOSULFAN I	7.17	ENDOSULFAN I
DIELDRIN	8.34	DIELDRIN
ENDRIN+ENDO II	9.45	ENDRIN+ENDO II
METHOXYCHLOR	19.11	METHOXYCHLOR

Data File = W:2FT30.PTS Printed on 03-21-1990 at 11:00:13
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 97477 uv High Value: 804321 uv Scale factor: 1.0



```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 13:01:00 Version 4.1 **********************
* Sample Name: 90FD10D39                          Data File: E:QF38        *
* Date: 03-20-1990 14:24:34 Method: K:1PESTB  03-21-1990 12:44:36  #  32   *
* Interface: 0   Cycle#:  38   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
***********************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*             Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information: TREKKER SF 7035                     PE PCBs           *
***********************************************************************
Starting Delay:    1.50                    Ending retention time:    45.00
Area reject:          0                    One sample per    1.000 sec.
Amount injected:        5.00               Dilution factor:        10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

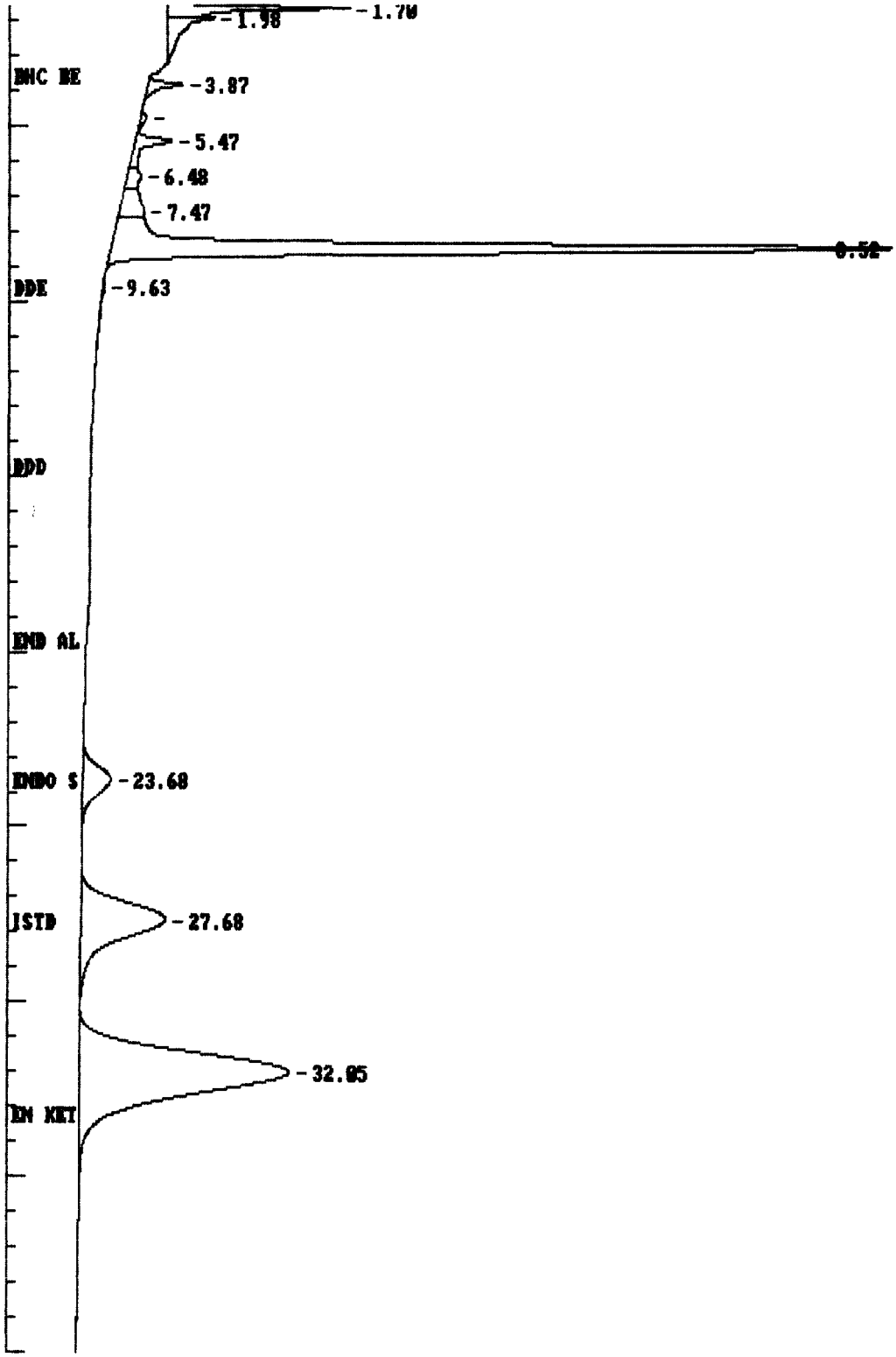
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
9	9.63	~~DDE~~ BLS	~~0.0007~~	0.0707%	44952	987	45.6	1	9	11	0	1.5507E-08
10	23.68	~~ENDO SULFATE~~ BLS	~~0.0723~~	7.3263%	1060899	19178	55.3	1	10	11	0	6.8130E-08
11	27.68	ISTD	1.0000	0.0000%	4041926	57667	70.1	1	11	11	0	2.4741E-07
12	32.05	~~EN KETONE~~ DBC	~~0.9136~~	92.6030%	11958344	142905	83.7	1	11	11	-3.531	7.6398E-08

TOTAL AMOUNT = 0.9866

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
BHC BETA	3.57	BHC BETA
BHC DELTA	4.15	BHC DELTA
DDD	14.74	DDD
END ALDEHYDE	19.67	END ALDEHYDE

Data File = E:QP38.PTS Printed on 03-21-1990 at 13:01:19
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 111440 uv High Value: 666459 uv Scale factor: 1.0



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

********** 03-21-1990 11:09:56 Version 4.1 **********

* Sample Name: 90FD10D39 Data File: W:2FT30 *
* Date: 03-20-1990 10:01:10 Method: W:CONFB 03-21-1990 08:43:48 # 23 *
* Interface: 0 Cycle#: 30 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 5 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: SINGLE PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C *
* Detector 0: ECD CONF Detector 1: *
* Misc. Information: TREKKER SF 7035 *

****

Starting Delay: 1.50 Ending retention time: 40.00
Area reject: 30000 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

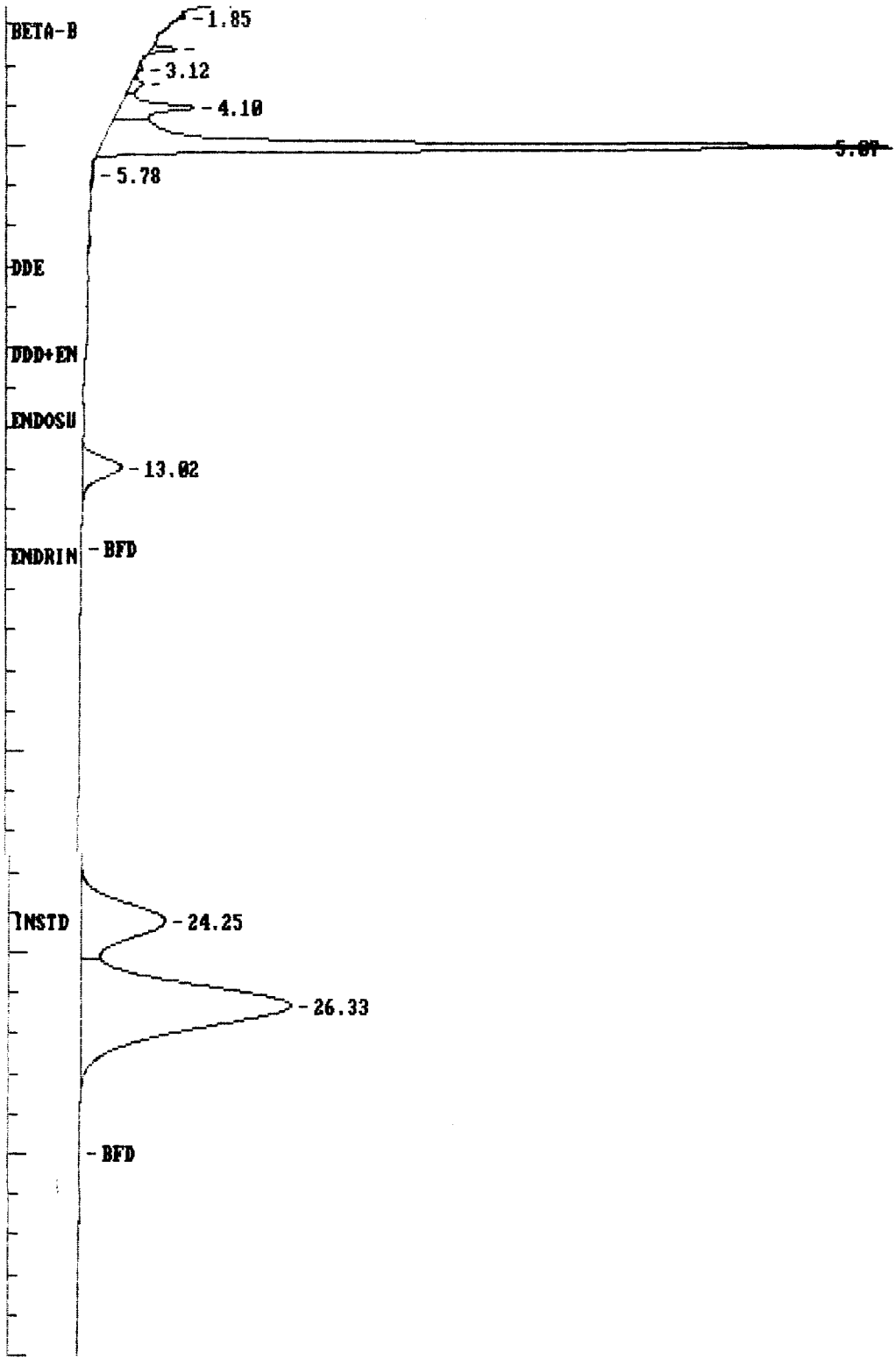
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug\L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
1	1.85		0.0000	0.2085%	56756	6026	9.4	1		10		2.2291E-10
2	2.65		0.0000	0.6946%	189048	23738	8.0	1		10		2.2291E-10
3	3.12		0.0000	0.2015%	54857	4493	12.2	2		10		2.2291E-10
4	3.52		0.0000	0.7345%	199916	11678	17.1	2		10		2.2291E-10
5	4.10		0.0003	4.4519%	1211706	66083	18.3	2		10		2.2291E-10
6	5.07		0.0023	38.3732%	10444234	686768	15.2	2		10		2.2291E-10
7	5.78		0.0000	0.1575%	42879	1781	24.1	1		10		2.2291E-10
9	13.02		0.0003	4.1852%	1139096	33366	34.1	1		10		2.2291E-10
10	24.25	INSTD MIREX	1.0000	0.0000%	4486134	72446	61.9	2	10	10	0	2.2291E-07
11	26.33		0.0031	50.9931%	13879068	181852	76.3	2		10		2.2291E-10

TOTAL AMOUNT = 0.0061

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
BETA-BHC	2.18	BETA-BHC
DELTA-BHC	2.45	DELTA-BHC
DDE	8.05	DDE
DDD+ENDRINALDE	10.15	DDD+ENDRINALDE
ENDOSULFAN SO4	11.82	ENDOSULFAN SO4
ENDRIN KETONE	15.17	ENDRIN KETONE

Data File = W:2FT30.PTS Printed on 03-21-1990 at 11:10:21
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 97477 uv High Value: 804321 uv Scale factor: 1.0



```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 15:51:08 Version 4.1 **********************
* Sample Name: 90FD10D39                          Data File: E:QP38        *
* Date: 03-20-1990 14:24:34 Method: K:GMET42  03-21-1990 15:06:49  #  48  *
* Interface: 0   Cycle#:  38   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
***************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD QUANT            Detector 1:                 *
* Misc. Information: TREKKER SF 7035                     PE PCBs          *
***************************************************************************
Starting Delay:    1.50                        Ending retention time:    45.00
Area reject:         0                         One sample per    1.000 sec.
Amount injected:        5.00                   Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

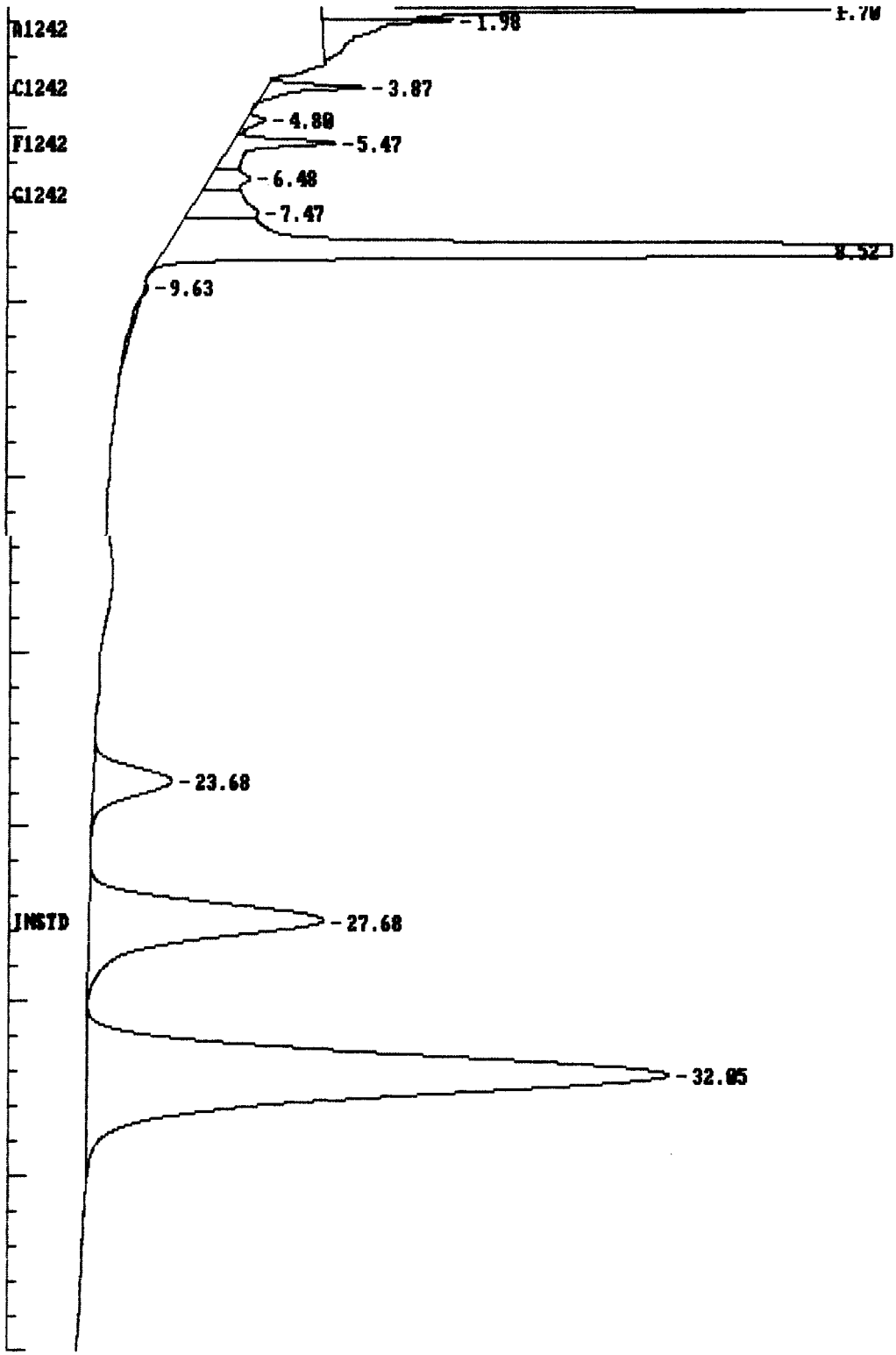
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	3.87	C1242	-0.1767	66.2238%	319998	24271	13.2 2	3	11	0	-5.5219E-07
4	4.80	E1242	-0.2183	81.8121%	97768	4866	20.1 2	4	11	0	-2.2328E-06
5	5.47	F1242	0.1282	-48.0358%	537261	25604	21.0 2	5	11	0	2.3856E-07
11	27.68	INSTD	1.0000	0.0000%	4041926	57667	70.1 1	11	11	0	2.4741E-07

TOTAL AMOUNT = -0.2668

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A1242	2.22	A1242
B1242	2.82	B1242
D1242	3.87	D1242
G1242	6.93	G1242

Data File = E:QP38.PTS Printed on 03-21-1990 at 15:51:28
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Full Range: 200 millivolts



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

********** 03-21-1990 15:47:07 Version 4.1 **********

* Sample Name: 90FD02R08 Data File: E:QP43 *

* Date: 03-20-1990 17:50:38 Method: K:1PESTA2 03-21-1990 15:38:40 # 61 *

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

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

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD QUANT Detector 1: *

* Misc. Information: TREKKER SF 7035 PE PCBs *

****

Starting Delay: 1.50 Ending retention time: 45.00

Area reject: 0 One sample per 1.000 sec.

Amount injected: 5.00 Dilution factor: 10.00

Internal Standard Amount: 1

Sample Weight: 1.000000

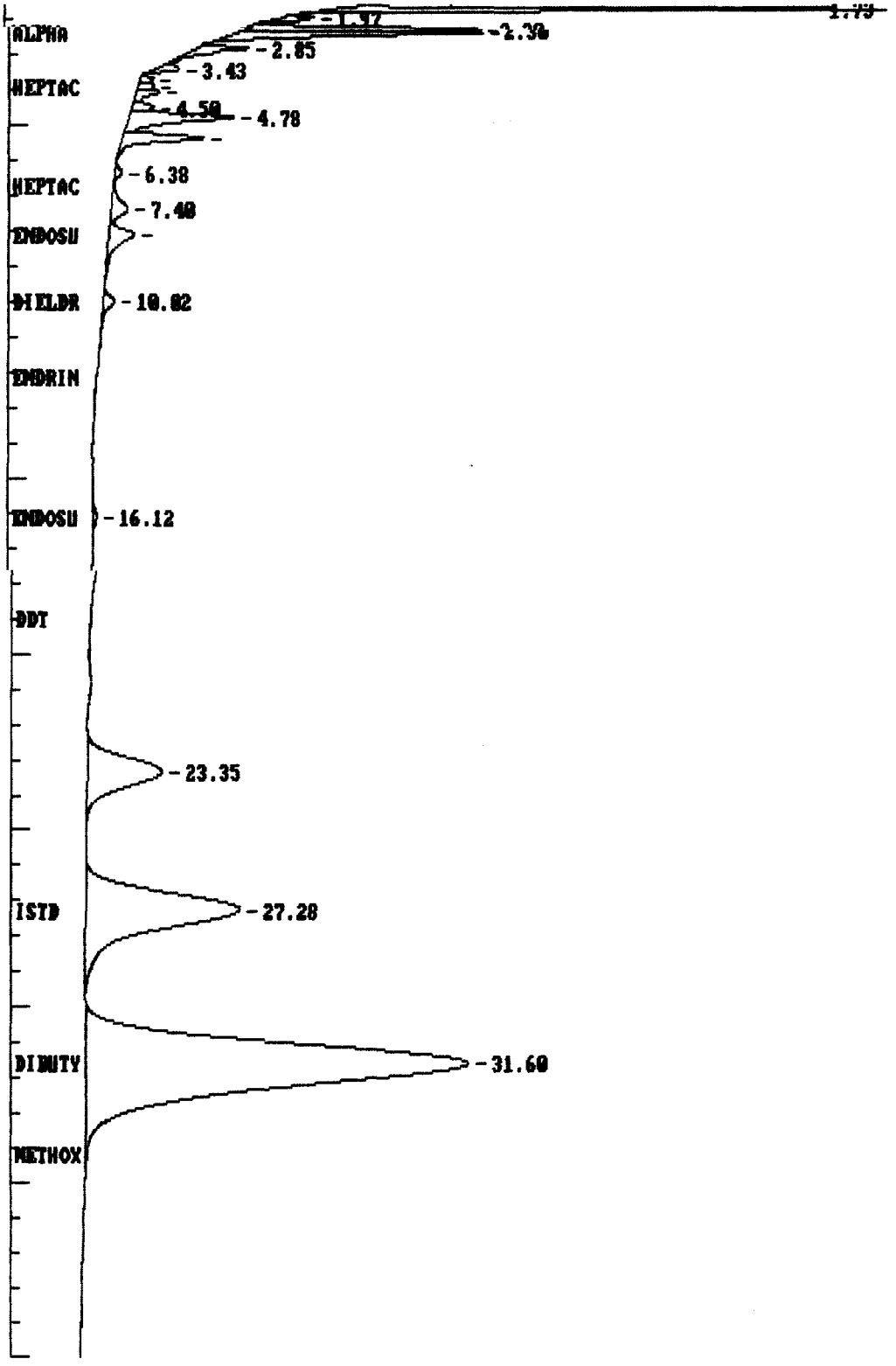
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	2.40	~~ALPHA BHC~~ N.C.	~~0.0347~~	4.1697%	910256	94738	9.6	2	4	19	0	3.8130E-08
8	3.90	~~HEPTACHLOR~~ BLS	~~-0.0038~~	-0.4506%	56573	5703	9.9	2	8	19	0	-6.6294E-08
10	4.50	~~ALDRIN~~ BLS	~~-0.0020~~	-0.2387%	99663	8040	12.4	2	10	19	0	-1.9932E-08
13	6.38	~~HEPTACHLOR EPOXIDE~~ BLS	~~-0.0093~~	-1.1182%	39541	2758	14.3	1	10	19	-4.966	-2.3539E-07
15	8.13	~~ENDOSULFAN I~~ BLS	0.0058	0.7024%	289111	9698	29.8	2	15	19	0	2.0224E-08
16	10.02	~~DIELDRIN~~ BLS	~~-0.0003~~	-0.0344%	97246	4021	24.2	1	16	19	0	-2.9472E-09
17	16.12	~~ENDOSULFAN II~~ BLS	~~-0.0037~~	-0.4390%	44131	1461	30.2	1	17	19	0	-8.2799E-08
19	27.28	ISTD	1.0000	0.0000%	4079926	58755	69.4	1	19	19	0	2.4510E-07
20	31.60	DIBUTYLCHLOR	0.8108	97.4087%	12340016	146186	84.4	1	20	19	0	6.5706E-08

TOTAL AMOUNT = 0.8324

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
LINDANE	3.02	LINDANE
ENDRIN	12.16	ENDRIN
DDT	18.99	DDT
METHOXYCHLOR	34.17	METHOXYCHLOR

Data File = E:QP43.PTS Printed on 03-21-1990 at 15:47:31
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 108912 uv High Value: 418888 uv Scale factor: 1.0



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

********** 03-21-1990 11:16:29 Version 4.1 **********

* Sample Name: 90FD02R08 Data File: W:2FT34 *
* Date: 03-20-1990 11:54:20 Method: W:CONFA 03-21-1990 08:43:31 # 31 *
* Interface: 0 Cycle#: 34 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 5 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: SINGLE PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C *
* Detector 0: ECD CONF Detector 1: *
* Misc. Information: TREKKER SF 7035 *

****

Starting Delay: 1.50 Ending retention time: 40.00
Area reject: 30000 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

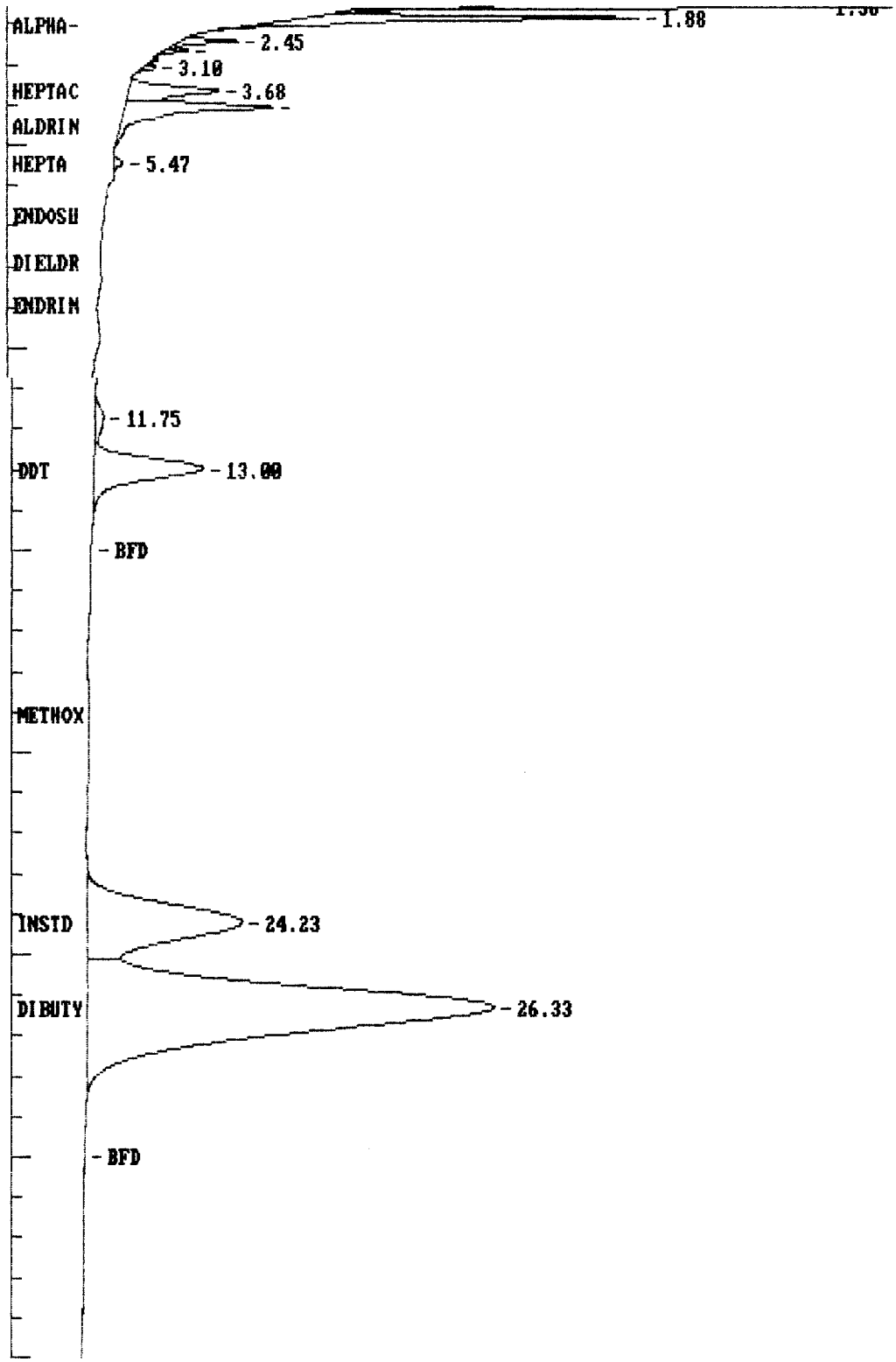
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug\L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
1	1.58		0.0002	0.0279%	980644	207335	4.7	1		12		2.2951E-10
2	1.88		0.0003	0.0381%	1341274	155296	8.6	1		12		2.2951E-10
3	2.45	LINDANE	0.0068	0.8455%	183789	26527	6.9	2	3	12	0	3.7127E-08
4	2.68		0.0000	0.0023%	81792	11516	7.1	2		12		2.2951E-10
6	3.10		0.0000	0.0016%	55395	6079	9.1	2		12		2.2951E-10
7	3.68	HEPTACHLOR	0.0201	2.4884%	673556	41584	16.2	2	7	12	0	2.9815E-08
8	4.08		0.0003	0.0337%	1183543	67927	17.4	2		12		2.2951E-10
9	5.47	HEPTA EPOXIDE	0.0016	0.1959%	43406	3765	11.5	1	9	12	0	3.6418E-08
10	11.75		0.0000	0.0043%	150400	3534	42.6	2		12		2.2951E-10
11	13.00	DDT	0.1063	13.1773%	1753808	49857	35.2	2	11	12	0	6.0635E-08
12	24.23	INSTD MIREX	1.0000	0.0000%	4357163	70737	61.6	2	12	12	0	2.2951E-07
13	26.33	DIBUTYLCHLORENDATE	0.6713	83.1851%	14577126	185916	78.4	2	13	12	0	4.6052E-08

TOTAL AMOUNT = 0.8070

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALPHA-BHC	2.05	ALPHA-BHC
ALDRIN	4.54	ALDRIN
ENDOSULFAN I	6.77	ENDOSULFAN I
DIELDRIN	7.89	DIELDRIN
ENDRIN+ENDO II	8.93	ENDRIN+ENDO II
METHOXYCHLOR	19.09	METHOXYCHLOR

Data File = W:2FT34.PTS Printed on 03-21-1990 at 11:16:58
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 96406 uv High Value: 468538 uv Scale factor: 1.0



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

********** 03-22-1990 08:50:49 Version 4.1 **********

* Sample Name: 90FD02R08 Data File: E:QP43 *
* Date: 03-20-1990 17:50:38 Method: K:1PESTB 03-21-1990 12:44:36 # 32 *
* Interface: 0 Cycle#: 43 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER SF 7035 PE PCBs *

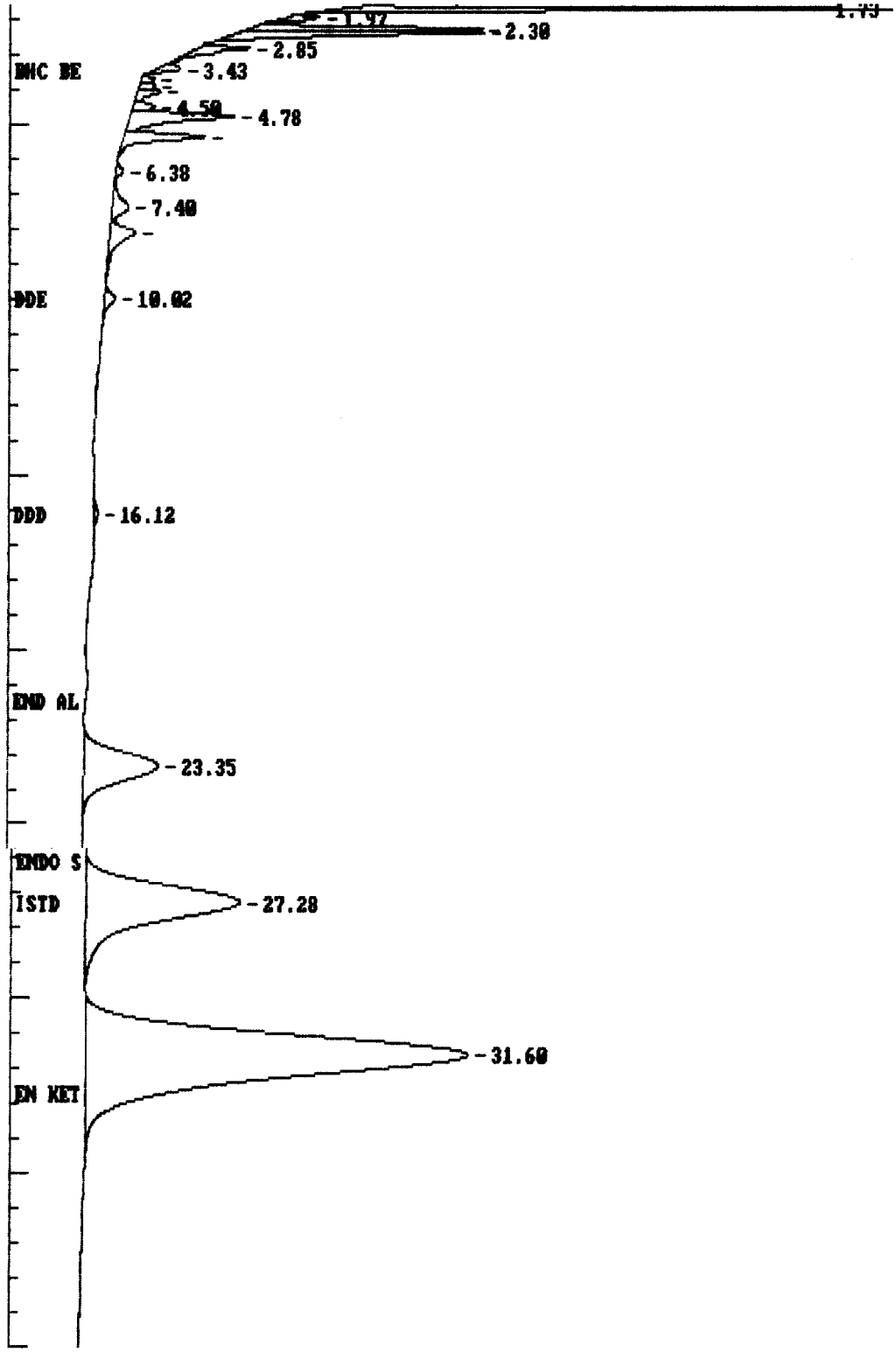
****

Starting Delay: 1.50 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 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	3.43	~~BHC BETA~~ BCS	~~0.0005~~	0.0342%	117094	9957	11.8	2	6	19	0	2.7649E-09
9	4.08	~~BHC DELTA~~ BCS	~~0.0055~~	0.5542%	121452	8784	13.8	2	9	19	0	4.3229E-08
16	10.02	~~DDE~~ BCS	~~0.0030~~	0.3188%	97246	4021	24.2	1	16	19	0	3.1056E-08
17	16.12	~~DDD~~ BCS	~~0.0043~~	0.4557%	44131	1461	30.2	1	17	19	0	9.7819E-08
19	27.28	ISTD	1.0000	0.0000%	4079926	58755	69.4	1	19	19	0	2.4510E-07
20	31.60	~~EN KETONE~~ DBC	~~0.9344~~	98.6371%	12340016	146186	84.4	1	19	19	-3.491	7.5719E-08

TOTAL AMOUNT = 0.9473

Data File = E:QP43.PTS Printed on 03-22-1990 at 08:51:10
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 108912 uv High Value: 418888 uv Scale factor: 1.0



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

********** 03-21-1990 11:17:52 Version 4.1 **********

* Sample Name: 90FD02R08 Data File: W:2FT34 *
* Date: 03-20-1990 11:54:20 Method: W:CONFB 03-21-1990 08:43:48 # 23 *
* Interface: 0 Cycle#: 34 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 5 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: SINGLE PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C *
* Detector 0: ECD CONF Detector 1: *
* Misc. Information: TREKKER SF 7035 *

****

Starting Delay: 1.50 Ending retention time: 40.00
Area reject: -30000 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 10.00
Internal Standard Amount: 1
Sample Weight: 1.000000

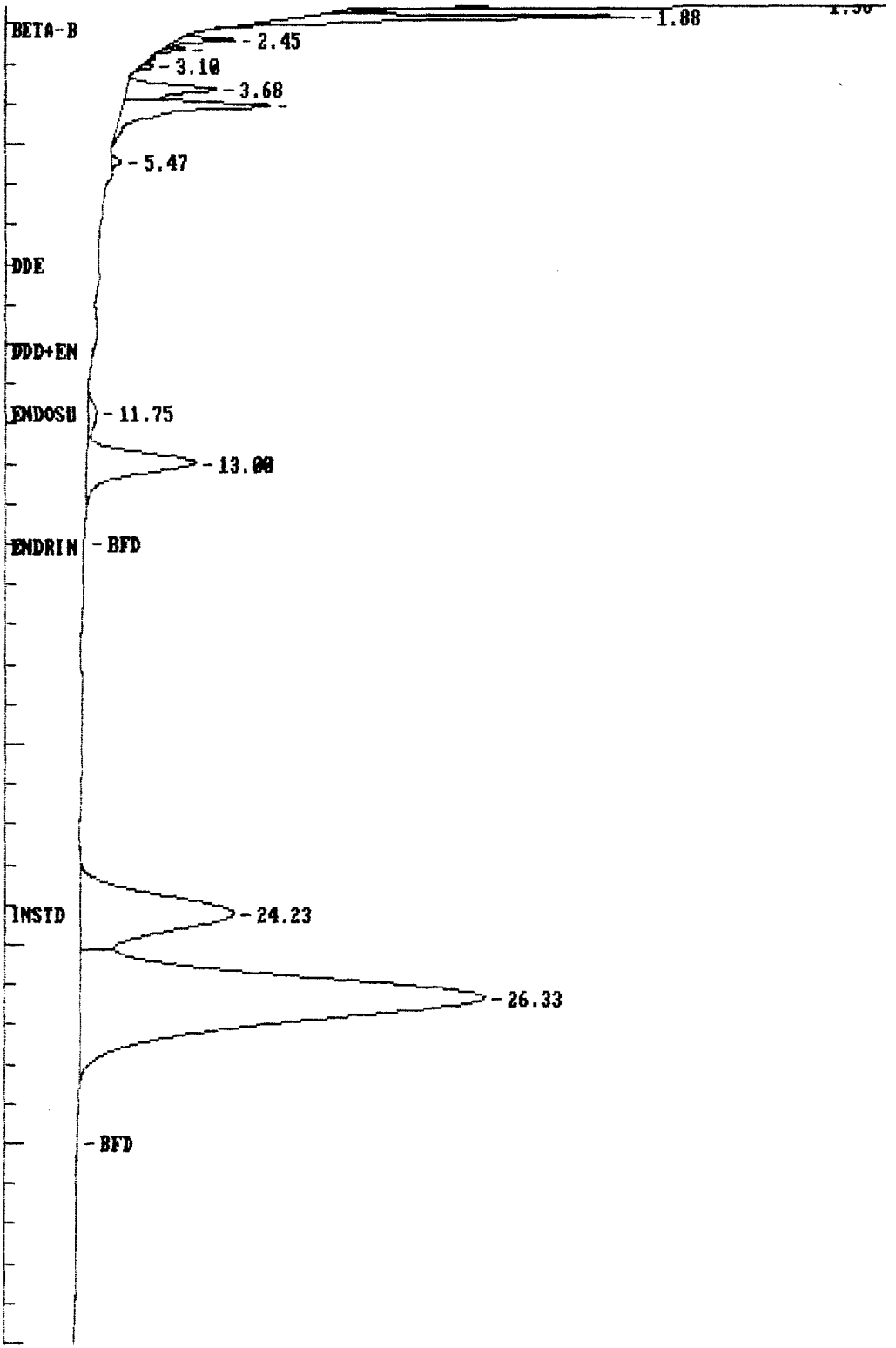
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug\L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
1	1.58		0.0002	0.5618%	980644	207335	4.7	1		12		2.2951E-10
2	1.88		0.0003	0.7685%	1341274	155296	8.6	1		12		2.2951E-10
3	2.45	DELTA-BHC	0.0140	34.9202%	183789	26527	6.9	2	3	12	0	7.6112E-08
4	2.68		0.0000	0.0469%	81792	11516	7.1	2		12		2.2951E-10
6	3.10		0.0000	0.0317%	55395	6079	9.1	2		12		2.2951E-10
7	3.68		0.0002	0.3859%	673556	41584	16.2	2		12		2.2951E-10
8	4.08		0.0003	0.6781%	1183543	67927	17.4	2		12		2.2951E-10
9	5.47		0.0000	0.0249%	43406	3765	11.5	1		12		2.2951E-10
10	11.75	ENDOSULFAN S04	0.0213	53.2255%	150400	3534	42.6	2	10	12	0	1.4176E-07
11	13.00		0.0004	1.0048%	1753808	49857	35.2	2		12		2.2951E-10
12	24.23	INSTD MIREX	1.0000	0.0000%	4357163	70737	61.6	2	12	12	0	2.2951E-07
13	26.33		0.0033	8.3517%	14577126	185916	78.4	2		12		2.2951E-10

TOTAL AMOUNT = 0.0401

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
BETA-BHC	2.18	BETA-BHC
DDE	8.05	DDE
DDD+ENDRINALDE	10.15	DDD+ENDRINALDE
ENDRIN KETONE	15.08	ENDRIN KETONE

Data File = W:2FT34.PTS Printed on 03-21-1990 at 11:18:21
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 96406 uv High Value: 468538 uv Scale factor: 1.0



```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-22-1990 08:49:32 Version 4.1 **********************
* Sample Name: 90FD02R08                          Data File: E:QP43        *
* Date: 03-20-1990 17:50:38 Method: K:GMET42  03-21-1990 15:06:49  #  48  *
* Interface: 0   Cycle#:  43   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
***************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*             Detector 0: ECD QUANT           Detector 1:                 *
* Misc. Information: TREKKER SF 7035                    PE PCBs           *
***************************************************************************
Starting Delay:    1.50                      Ending retention time:    45.00
Area reject:        0                        One sample per   1.000 sec.
Amount injected:        5.00                 Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

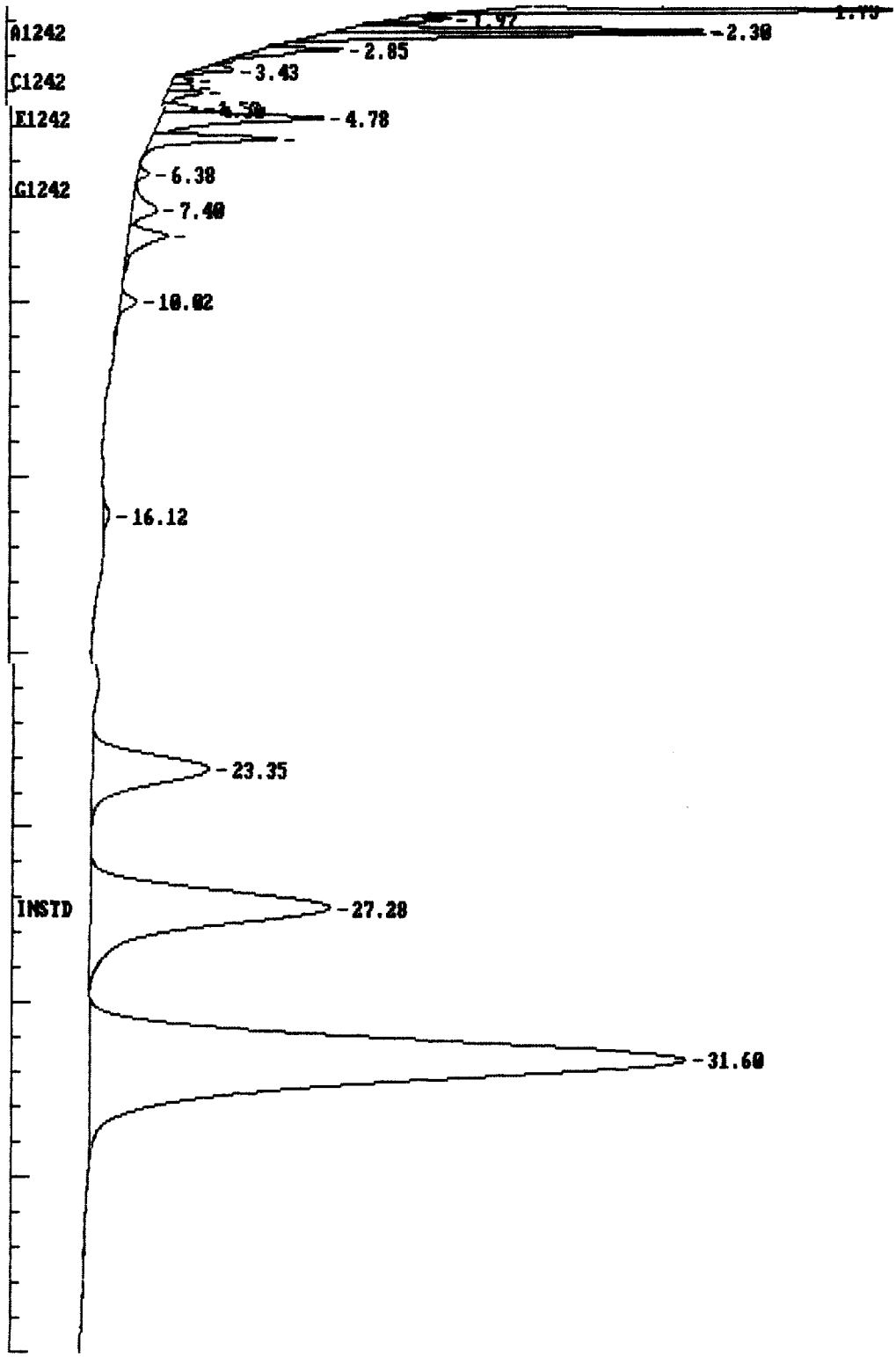
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	2.30	A1242	1.0583	110.4362%	672799	90288	7.5	2	3	19	0	1.5730E-06
5	2.85	B1242	0.0159	1.6564%	270400	21267	12.7	2	5	19	0	5.8705E-08
7	3.72	C1242	-0.3787	-39.5216%	42117	4888	8.6	2	7	19	0	-8.9926E-06
9	4.08	D1242	-0.1042	-10.8684%	121452	8784	13.8	2	9	19	0	-8.5757E-07
11	4.78	E1242	0.3546	37.0023%	684227	39948	17.1	2	11	19	0	5.1825E-07
12	5.38	F1242	0.0124	1.2951%	454326	31095	14.6	2	12	19	0	2.7317E-08
19	27.28	INSTD	1.0000	0.0000%	4079926	58755	69.4	1	19	19	0	2.4510E-07

TOTAL AMOUNT = 0.9583

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
G1242	6.82	G1242

Data File = E:QP43.PTS Printed on 03-22-1990 at 08:49:52
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Full Range: 200 millivolts



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

```
******************** 03-21-1990 11:24:17 Version 4.1 ********************
* Sample Name: 90FD10S40                          Data File: E:QP41        *
* Date: 03-20-1990 16:28:12 Method: K:1PESTA  03-21-1990 10:25:56  #  59  *
* Interface: 0   Cycle#:  41   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*            Detector 0: ECD QUANT           Detector 1:                   *
* Misc. Information: TREKKER SF 7035                      PE PCBs          *
*************************************************************************
Starting Delay:    1.50                      Ending retention time:   45.00
Area reject:        0                        One sample per   1.000 sec.
Amount injected:        5.00                 Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

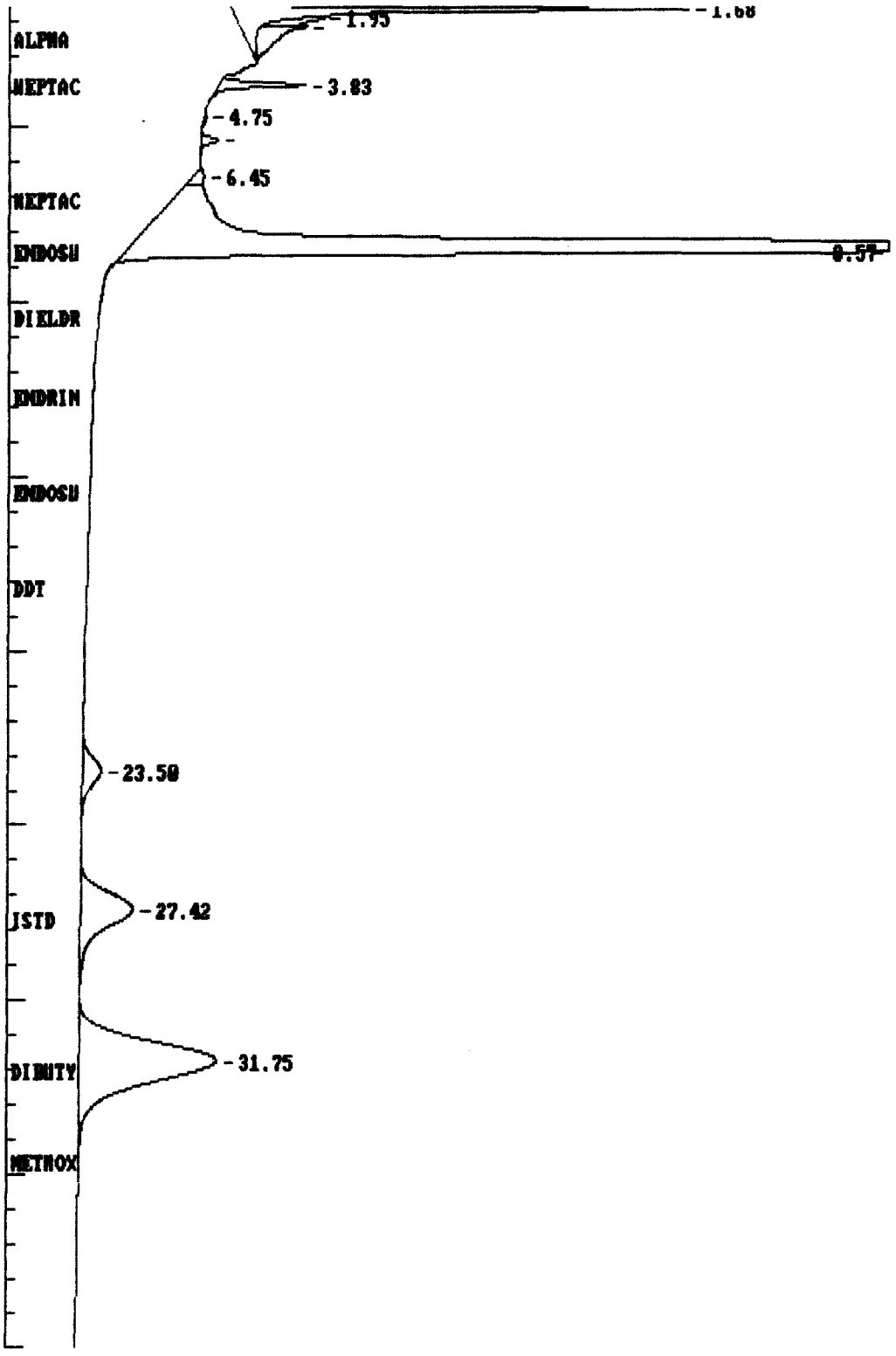
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	3.83	~~HEPTACHLOR~~ N.C.	~~0.0387~~	1.6838%	907367	91836	9.9	1	4	10	0	4.2663E-08
5	4.75	~~ALDRIN~~ BLS	~~-0.0027~~	-0.1161%	52440	2785	18.8	1	5	10	0	-5.0879E-08
8	8.57	~~ENDOSULFAN I~~ N.C.	~~1.4303~~	62.2116%	27700004	811863	34.1	2	8	10	0	5.1635E-08
10	27.42	ISTD	1.0000	0.0000%	3837410	55286	69.4	1	8	10	-1.058	2.6059E-07
11	31.75	DIBUTYLCHLOR	0.8327	36.2206%	11887726	145963	81.4	1	8	10	-.9336	7.0050E-08

TOTAL AMOUNT = 2.2991

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALPHA BHC	2.55	ALPHA BHC
LINDANE	3.22	LINDANE
HEPTACHLOR EPOXIDE	7.10	HEPTACHLOR EPOXIDE
DIELDRIN	10.48	DIELDRIN
ENDRIN	12.73	ENDRIN
ENDOSULFAN II	15.46	ENDOSULFAN II
DDT	18.20	DDT
METHOXYCHLOR	34.65	METHOXYCHLOR

Data File = E:QP41.PTS Printed on 03-21-1990 at 11:24:37
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 114766 uv High Value: 975185 uv Scale factor: 1.0



```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 11:11:13 Version 4.1 **********************
* Sample Name: 90FD10S40                          Data File: W:2FT31       *
* Date: 03-20-1990 10:01:51 Method: W:CONFA  03-21-1990 08:43:31  #  31    *
* Interface: 0   Cycle#:  31   Operator AK  Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 5  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE         *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                         *
*             Detector 0: ECD CONF            Detector 1:                 *
* Misc. Information: TREKKER SF 7035                                      *
*************************************************************************
Starting Delay:    1.50                      Ending retention time:    40.00
Area reject:     30000                       One sample per    1.000 sec.
Amount injected:        5.00                 Dilution factor:        10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

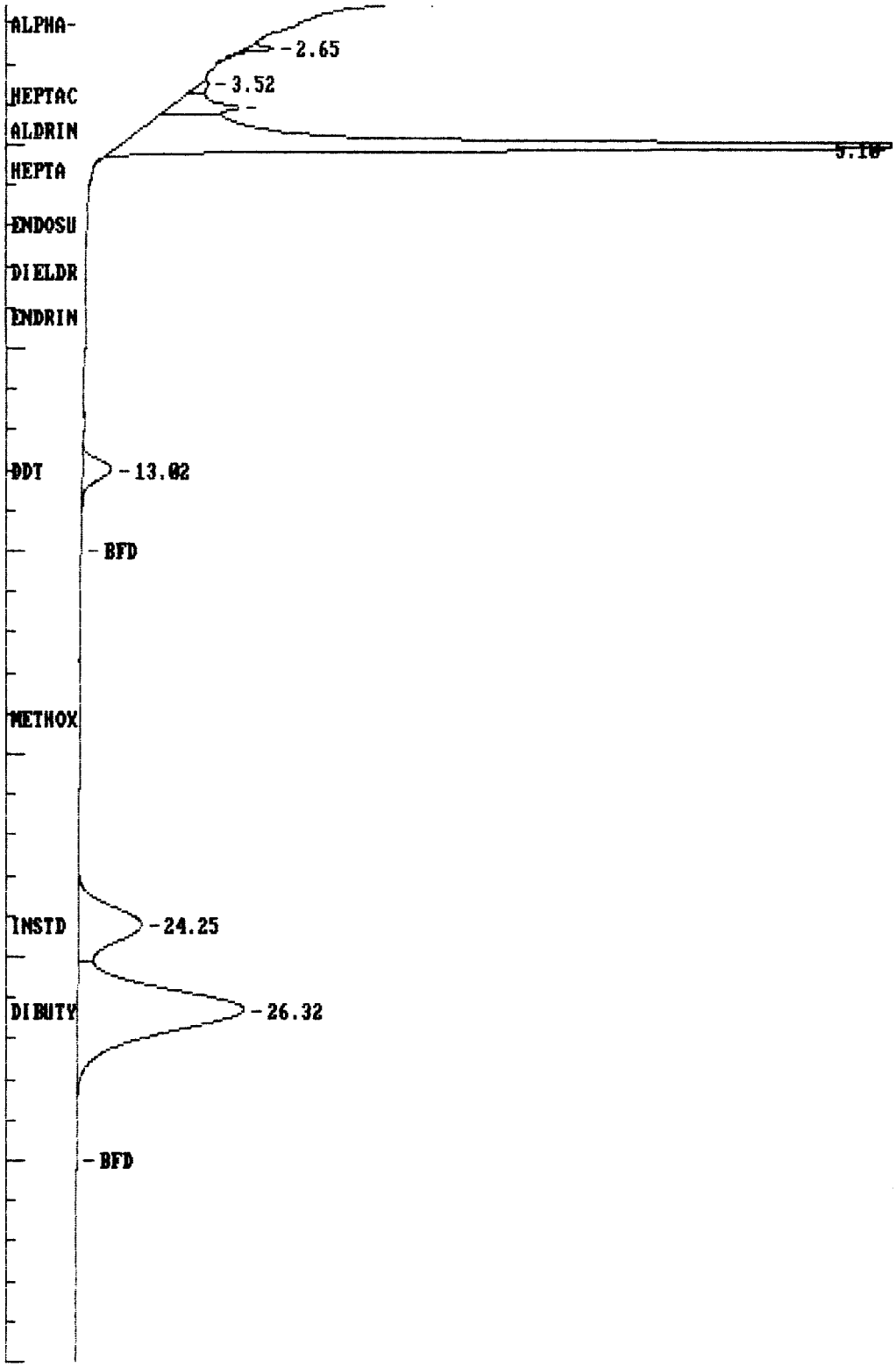
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug\L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
1	2.65		0.0001	0.0085%	253829	31767	8.0	1		7		2.3860E-10
2	3.52		0.0001	0.0082%	243632	10781	22.6	2		7		2.3860E-10
3	4.10		0.0004	0.0554%	1650559	77422	21.3	2		7		2.3860E-10
4	5.10		0.0044	0.6213%	18493910	841232	22.0	2		7		2.3860E-10
6	13.02	DDT	0.0678	9.5463%	1075630	31564	34.1	1	6	7	0	6.3036E-08
7	24.25	INSTD MIREX	1.0000	0.0000%	4191179	68285	61.4	2	7	7	0	2.3860E-07
8	26.32	DIBUTYLCHLORENDATE	0.6375	89.7602%	13316180	179988	74.0	2	8	7	0	4.7876E-08

TOTAL AMOUNT = 0.7103

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
ALPHA-BHC	2.05	ALPHA-BHC
LINDANE	2.40	LINDANE
HEPTACHLOR	3.78	HEPTACHLOR
ALDRIN	4.67	ALDRIN
HEPTA EPOXIDE	5.65	HEPTA EPOXIDE
ENDOSULFAN I	7.00	ENDOSULFAN I
DIELDRIN	8.15	DIELDRIN
ENDRIN+ENDO II	9.23	ENDRIN+ENDO II
METHOXYCHLOR	19.11	METHOXYCHLOR

Data File = W:2FT31.PTS Printed on 03-21-1990 at 11:11:38
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 99628 uv High Value: 982673 uv Scale factor: 1.0



```
******   INTERNAL STANDARD TABLE   ******
******************** 03-22-1990 08:44:25 Version 4.1 **********************
* Sample Name: 90FD10S40                          Data File: E:QP41        *
* Date: 03-20-1990 16:28:12 Method: K:1PESTB  03-21-1990 12:44:36  #  32  *
* Interface: 0   Cycle#:  41   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
***********************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD QUANT            Detector 1:                 *
* Misc. Information: TREKKER SF 7035                      PE PCBs         *
***********************************************************************
Starting Delay:    1.50                        Ending retention time:    45.00
Area reject:         0                         One sample per   1.000 sec.
Amount injected:        5.00                   Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

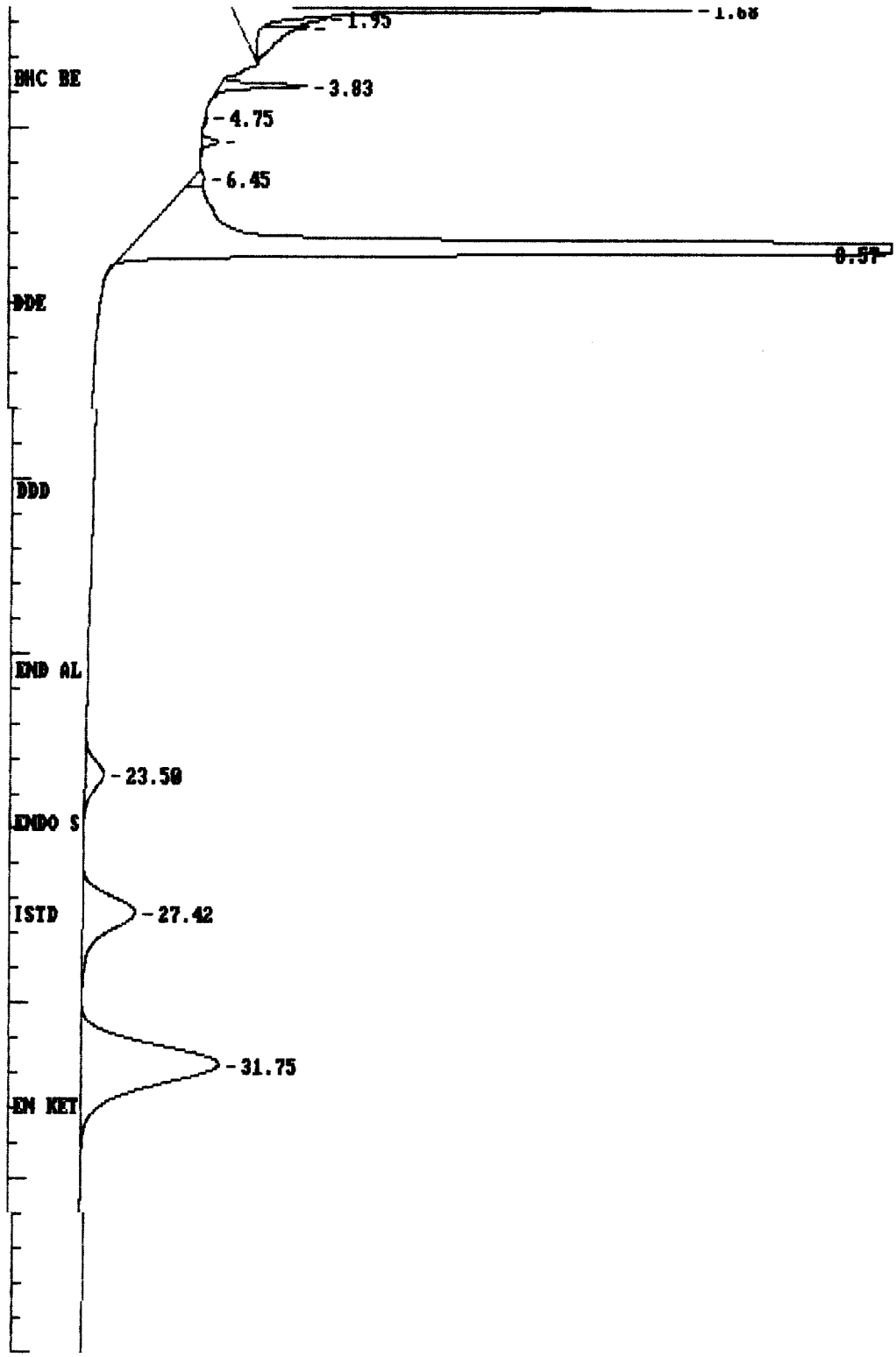
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
10	27.42	ISTD	1.0000	0.0000%	3837410	55286	69.4	1	10	10	0	2.6059E-07
11	31.75	~~EN KETONE~~ DBC	~~0.9575~~	100.0000%	11887726	145963	81.4	1	10	10	-3.504	8.0542E-08

TOTAL AMOUNT = 0.9575

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
BHC BETA	3.57	BHC BETA
BHC DELTA	4.15	BHC DELTA
DDE	10.03	DDE
DDD	15.35	DDD
END ALDEHYDE	20.48	END ALDEHYDE
ENDO SULFATE	24.85	ENDO SULFATE

Data File = E:QP41.PTS Printed on 03-22-1990 at 08:44:40
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 114766 uv High Value: 975185 uv Scale factor: 1.0



```
******   INTERNAL STANDARD TABLE   ******
******************** 03-21-1990 11:12:30 Version 4.1 **********************
* Sample Name: 90FD10S40                          Data File: W:2FT31        *
* Date: 03-20-1990 10:01:51 Method: W:CONFB  03-21-1990 08:43:48  #  23    *
* Interface: 0   Cycle#:  31   Operator AK  Channel#: 0    Vial#: N.A.      *
* Starting Peak Width:  10   Threshold: 5  Area Threshold: 1000             *
***************************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE          *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                          *
*             Detector 0: ECD CONF            Detector 1:                  *
* Misc. Information: TREKKER SF 7035                                       *
***************************************************************************
Starting Delay:    1.50                      Ending retention time:    40.00
Area reject:     30000                       One sample per    1.000 sec.
Amount injected:        5.00                 Dilution factor:        10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

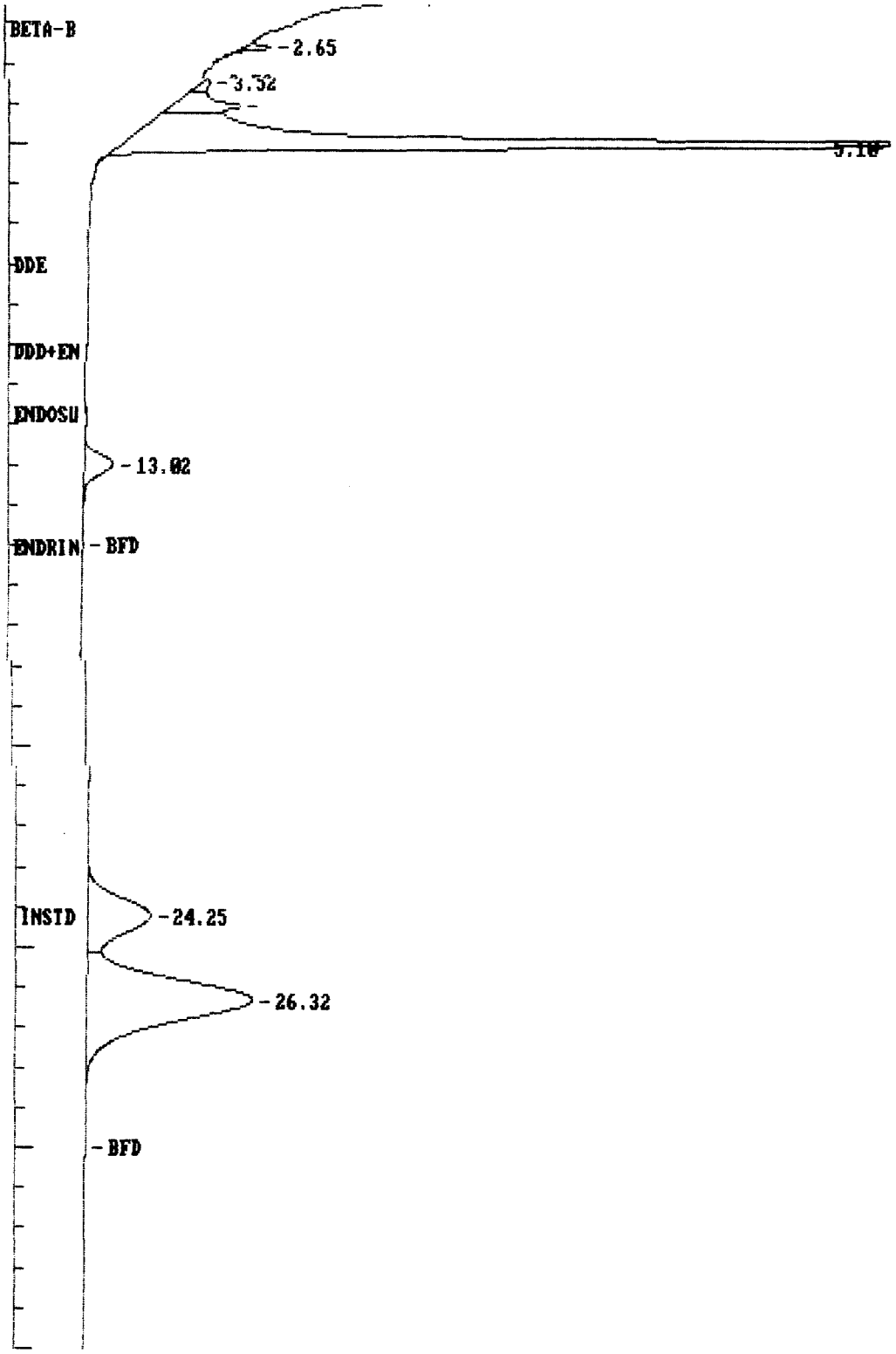
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug\L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
1	2.65		0.0001	0.7245%	253829	31767	8.0	1		7		2.3860E-10
2	3.52		0.0001	0.6954%	243632	10781	22.6	2		7		2.3860E-10
3	4.10		0.0004	4.7113%	1650559	77422	21.3	2		7		2.3860E-10
4	5.10		0.0044	52.7889%	18493910	841232	22.0	2		7		2.3860E-10
6	13.02		0.0003	3.0703%	1075630	31564	34.1	1		7		2.3860E-10
7	24.25	INSTD MIREX	1.0000	0.0000%	4191179	68285	61.4	2	7	7	0	2.3860E-07
8	26.32		0.0032	38.0096%	13316180	179988	74.0	2		7		2.3860E-10

TOTAL AMOUNT = 0.0084

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
BETA-BHC	2.18	BETA-BHC
DELTA-BHC	2.45	DELTA-BHC
DDE	8.05	DDE
DDD+ENDRINALDE	10.15	DDD+ENDRINALDE
ENDOSULFAN SO4	11.75	ENDOSULFAN SO4
ENDRIN KETONE	15.08	ENDRIN KETONE

Data File = W:2FT31.PTS Printed on 03-21-1990 at 11:12:53
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 99628 uv High Value: 982673 uv Scale factor: 1.0



```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-22-1990 08:45:36 Version 4.1 **********************
* Sample Name: 90FD10S40                          Data File: E:QP41        *
* Date: 03-20-1990 16:28:12 Method: K:GMET42  03-21-1990 15:06:49  #  48   *
* Interface: 0   Cycle#:  41   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
***************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*             Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information: TREKKER SF 7035                     PE PCBs           *
***************************************************************************
Starting Delay:    1.50                      Ending retention time:    45.00
Area reject:        0                        One sample per   1.000 sec.
Amount injected:        5.00                 Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

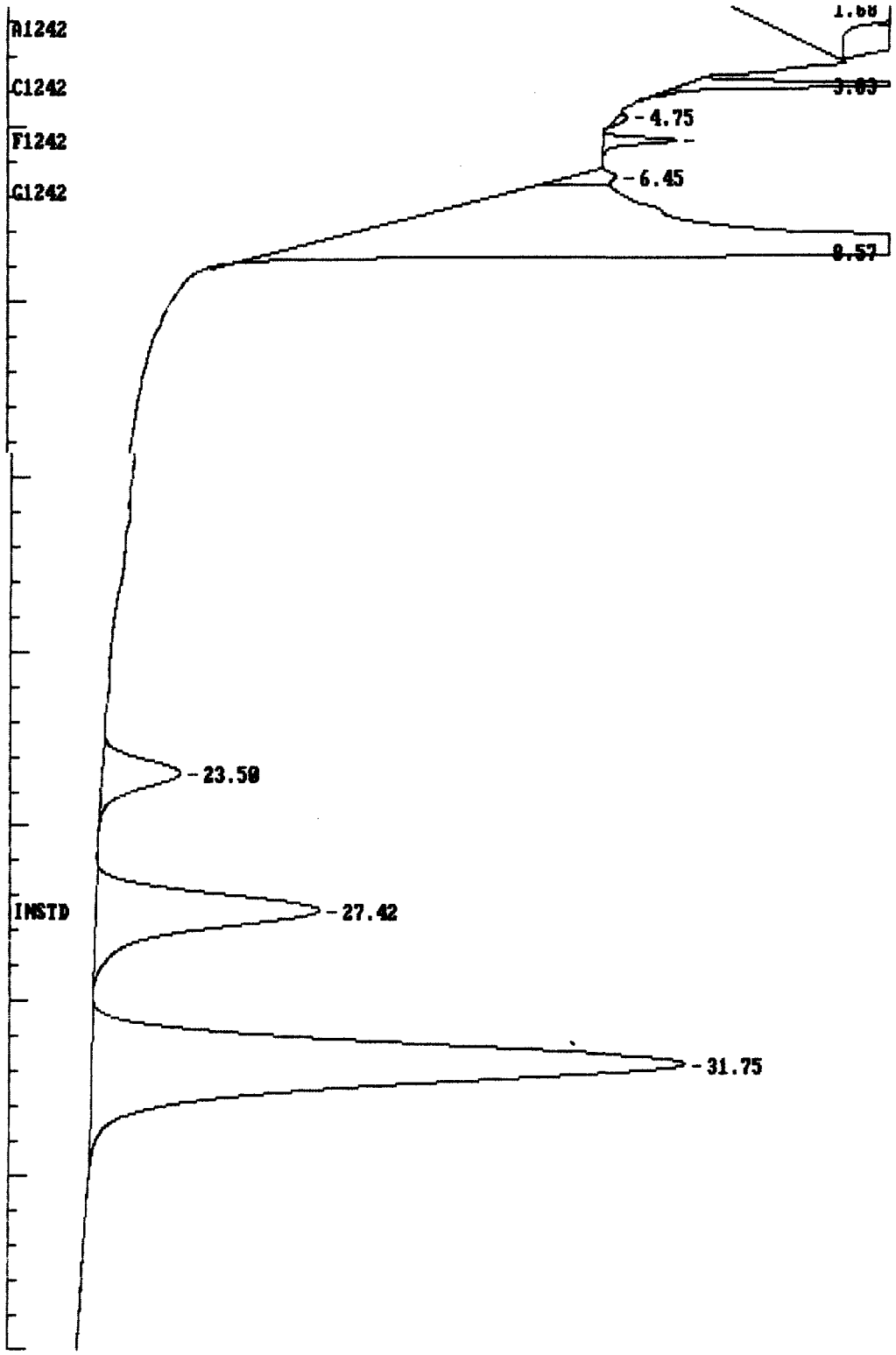
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	2.17	A1242	2.5642	109.0991%	1346619	49960	27.0 4	3	10	0	1.9042E-06
4	3.83	C1242	0.2849	12.1205%	907367	91836	9.9 1	4	10	0	3.1395E-07
5	4.75	E1242	-0.2603	-11.0750%	52440	2785	18.8 1	5	10	0	-4.9637E-06
6	5.42	F1242	-0.2384	-10.1446%	247992	18200	13.6 1	6	10	0	-9.6145E-07
10	27.42	INSTD	1.0000	0.0000%	3837410	55286	69.4 1	10	10	0	2.6059E-07

TOTAL AMOUNT = 2.3503

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
B1242	2.75	B1242
D1242	3.83	D1242
G1242	6.86	G1242

Data File = E:QP41.PTS Printed on 03-22-1990 at 08:45:55
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Full Range: 200 millivolts



```
******    INTERNAL STANDARD TABLE    ******
******************** 03-21-1990 15:45:46 Version 4.1 **********************
* Sample Name: 90FD10S41                          Data File: E:QP42        *
* Date: 03-20-1990 17:09:26 Method: K:1PESTA2  03-21-1990 15:38:40  #  61 *
* Interface: 0   Cycle#:  42   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD QUANT            Detector 1:                 *
* Misc. Information: TREKKER SF 7035                    PE PCBs           *
*************************************************************************
Starting Delay:    1.50                      Ending retention time:    45.00
Area reject:        0                        One sample per   1.000 sec.
Amount injected:        5.00                 Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

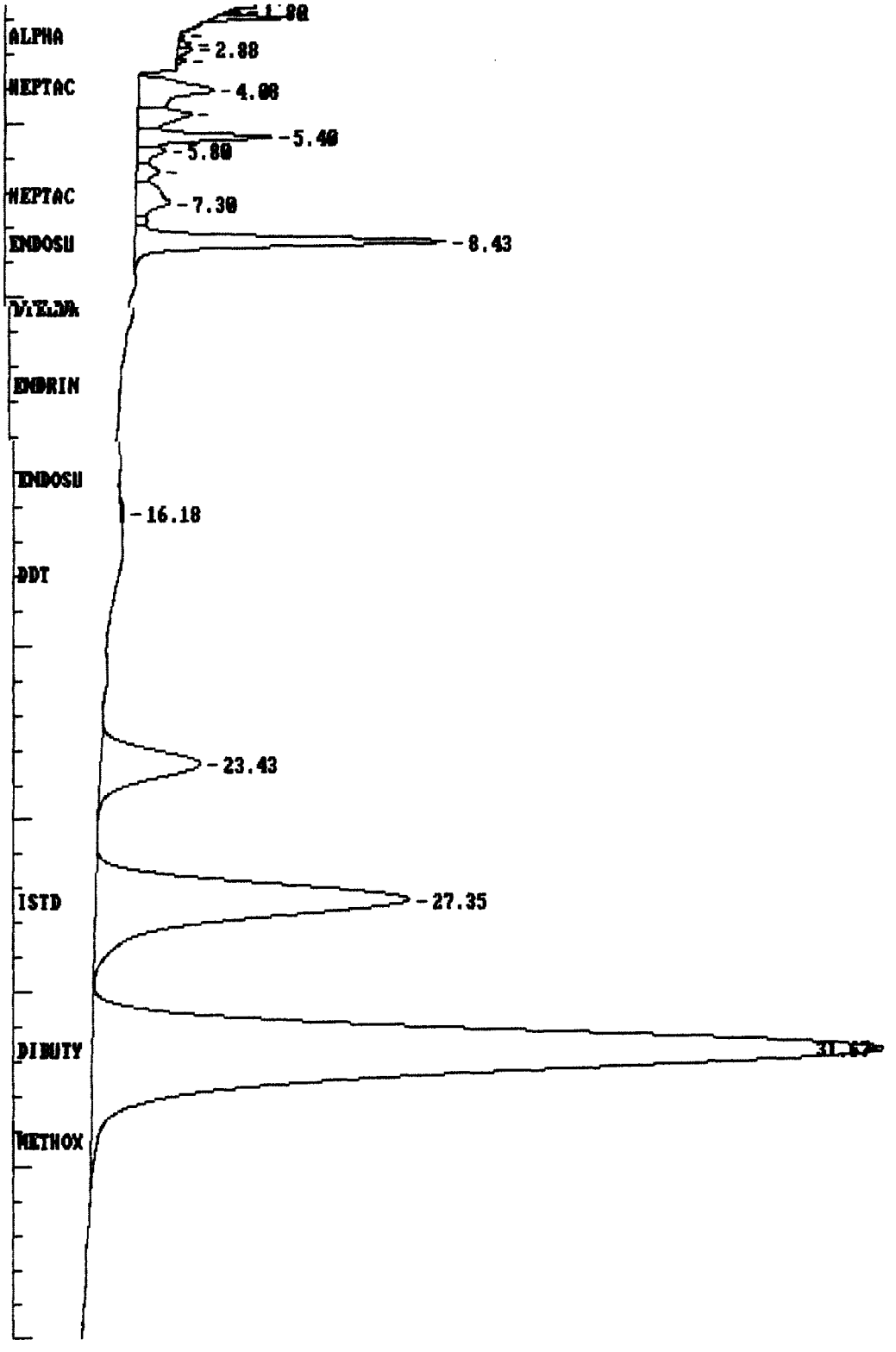
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	2.48	~~ALPHA BHC~~ BCS	~~0.0007~~	0.0827%	5133	944	5.4	1	3	16	0	1.4025E-07
6	3.18	~~LINDANE~~ BCS	~~0.0029~~	-0.3353%	14251	1789	8.0	2	6	16	0	-2.0474E-07
7	4.08	~~HEPTACHLOR~~ BCS	~~0.0146~~	1.6761%	451435	14125	32.0	2	6	16	4.898	3.2313E-08
8	4.73	~~ALDRIN~~ BCS	~~0.0055~~	0.6294%	262091	10072	26.0	2	8	16	0	2.0901E-08
12	7.30	~~HEPTACHLOR EPOXIDE~~ BCS	~~0.0014~~	0.1624%	262586	6458	40.7	2	8	16	3.323	5.3836E-09
13	8.43	~~ENDOSULFAN I~~ BCS	~~0.0477~~	5.4758%	1141111	57920	19.7	2	13	16	0	4.1764E-08
16	27.35	ISTD	1.0000	0.0000%	4065407	58472	69.5	1	16	16	0	2.4598E-07
17	31.67	DIBUTYLCHLOR	0.8034	92.3088%	12188437	147391	82.7	1	17	16	0	6.5913E-08

TOTAL AMOUNT = 0.8703

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
DIELDRIN	10.33	DIELDRIN
ENDRIN	12.53	ENDRIN
ENDOSULFAN II	15.22	ENDOSULFAN II
DDT	17.94	DDT
METHOXYCHLOR	34.25	METHOXYCHLOR

Data File = E:QP42.PTS Printed on 03-21-1990 at 15:46:08
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 111511 uv High Value: 260908 uv Scale factor: 1.0



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

********** 03-21-1990 11:15:07 Version 4.1 **********

* Sample Name: 90FD10S41 Data File: W:2FT33 *
* Date: 03-20-1990 11:43:45 Method: W:CONFA 03-21-1990 08:43:31 # 31 *
* Interface: 0 Cycle#: 33 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 5 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #1 Column Type: SINGLE PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C *
* Detector 0: ECD CONF Detector 1: *
* Misc. Information: TREKKER SF 7035 *

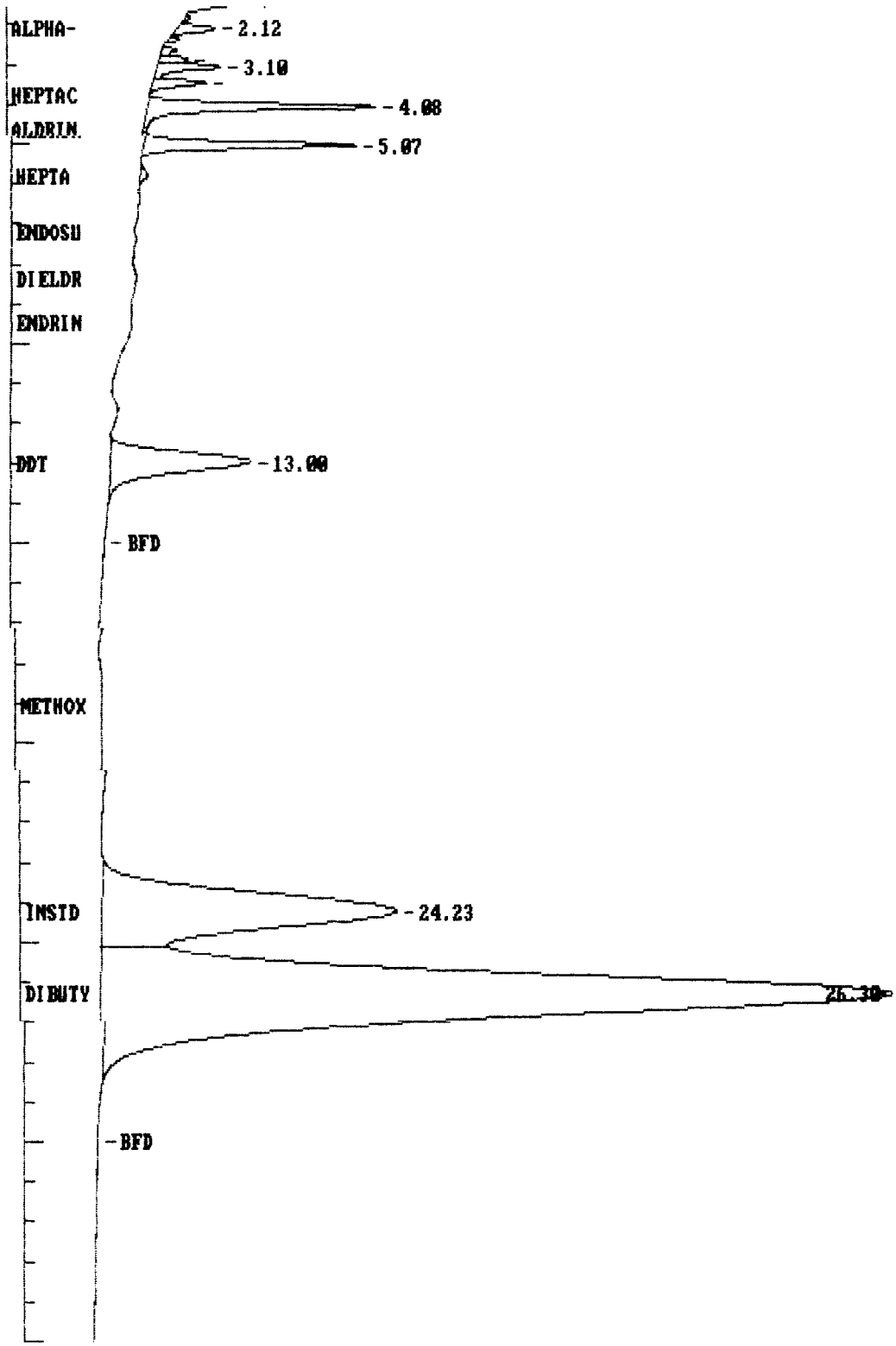
****

Starting Delay: 1.50 Ending retention time: 40.00
Area reject: 30000 One sample per 1.000 sec.
Amount injected: 5.00 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	2.12	ALPHA-BHC	0.0036	0.4982%	110189	9233	11.9	2	2	12	0	3.3079E-08
5	2.90		0.0000	0.0020%	61549	6625	9.3	2		12		2.3287E-10
6	3.10		0.0000	0.0061%	190097	15067	12.6	2		12		2.3287E-10
7	3.50		0.0000	0.0046%	143381	12793	11.2	2		12		2.3287E-10
8	4.08		0.0002	0.0226%	710777	54020	13.2	2		12		2.3287E-10
9	5.07		0.0001	0.0197%	618654	50095	12.3	2		12		2.3287E-10
11	13.00	DDT	0.0699	9.5565%	1136452	33201	34.2	1	11	12	0	6.1523E-08
12	24.23	INSTD MIREX	1.0000	0.0000%	4294237	69580	61.7	2	12	12	0	2.3287E-07
13	26.30	DIBUTYLCHLORENDATE	0.6577	89.8904%	14074575	186787	75.4	2	13	12	0	4.6727E-08

TOTAL AMOUNT = 0.7316

Data File = W:2FT33.PTS Printed on 03-21-1990 at 11:15:34
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 97737 uv High Value: 287074 uv Scale factor: 1.0



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

```
******************** 03-22-1990 08:47:00 Version 4.1 **********************
* Sample Name: 90FD10S41                          Data File: E:QP42        *
* Date: 03-20-1990 17:09:26 Method: K:1PESTB  03-21-1990 12:44:36  #  32  *
* Interface: 0   Cycle#:  42   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
***********************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*             Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information: TREKKER SF 7035                    PE PCBs            *
***********************************************************************
Starting Delay:    1.50                    Ending retention time:    45.00
Area reject:        0                      One sample per   1.000 sec.
Amount injected:        5.00               Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

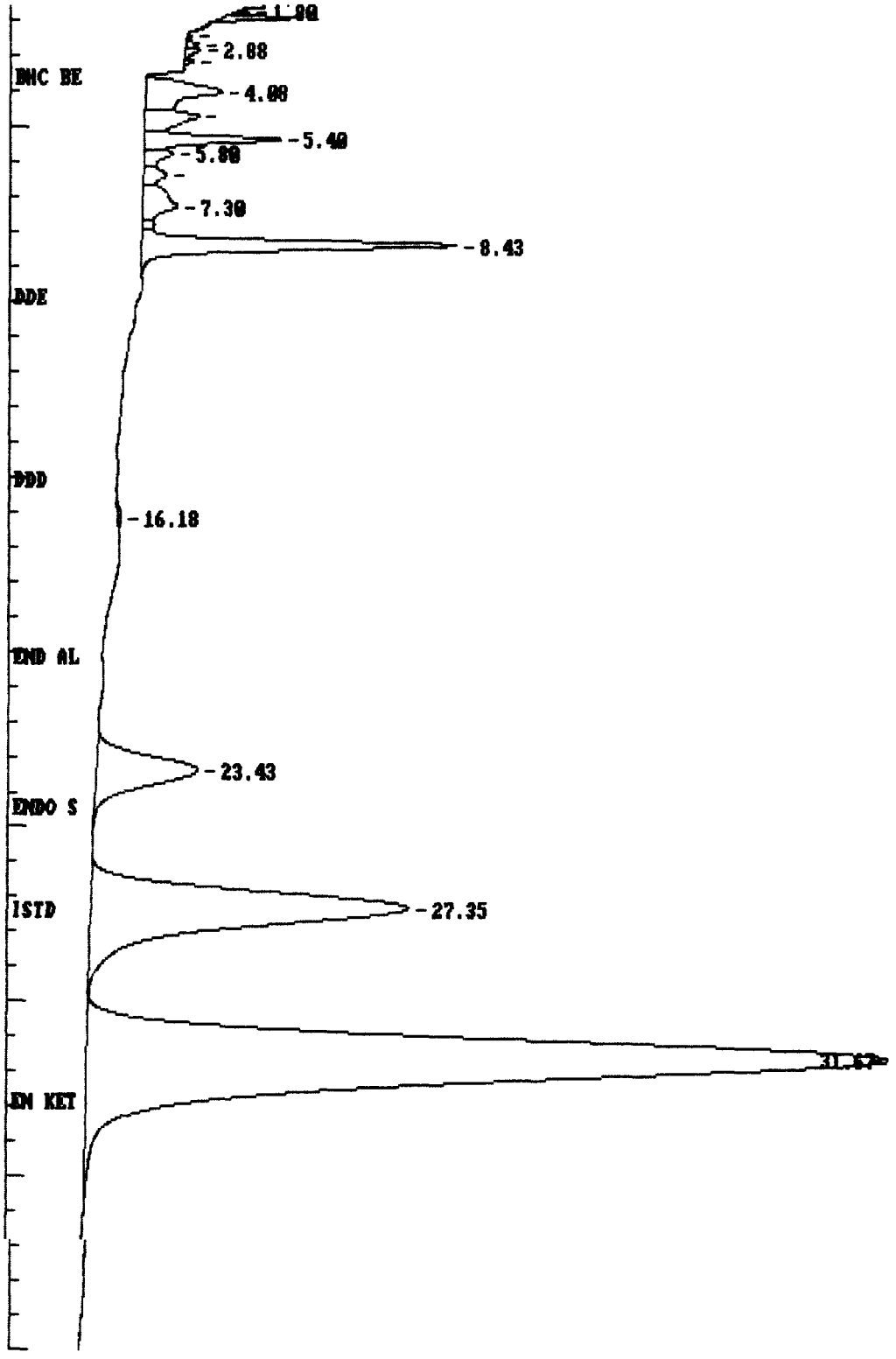
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
7	4.08	~~BHC DELTA~~ BCS	~~0.0197~~	1.9369%	451435	14125	32.0	2	7	16	0	4.3585E-08
15	23.43	~~ENDO SULFATE~~ BCS	~~0.0701~~	6.9046%	1031638	18639	55.3	1	7	16	-4.161	6.7989E-08
16	27.35	ISTD	1.0000	0.0000%	4065407	58472	69.5	1	16	16	0	2.4598E-07
17	31.67	~~EN KETONE~~ DBC	~~0.9260~~	91.1585%	12188437	147391	82.7	1	16	16	-3.523	7.5977E-08

TOTAL AMOUNT = 1.0159

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
BHC BETA	3.57	BHC BETA
DDE	9.87	DDE
DDD	15.10	DDD
END ALDEHYDE	20.15	END ALDEHYDE

Data File = E:QP42.PTS Printed on 03-22-1990 at 08:47:19
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 111511 uv High Value: 260908 uv Scale factor: 1.0



```
******   INTERNAL STANDARD TABLE   ******
******************** 03-21-1990 11:13:46 Version 4.1 **********************
* Sample Name: 90FD10S41                          Data File: W:2FT33        *
* Date: 03-20-1990 11:43:45 Method: W:CONFB  03-21-1990 08:43:48  #  23    *
* Interface: 0   Cycle#:  33   Operator AK  Channel#: 0    Vial#: N.A.      *
* Starting Peak Width:  10   Threshold: 5  Area Threshold: 1000             *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE          *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN               *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                          *
*            Detector 0: ECD CONF            Detector 1:                   *
* Misc. Information: TREKKER SF 7035                                       *
*************************************************************************
Starting Delay:    1.50                        Ending retention time:    40.00
Area reject:     30000                         One sample per    1.000 sec.
Amount injected:        5.00                   Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

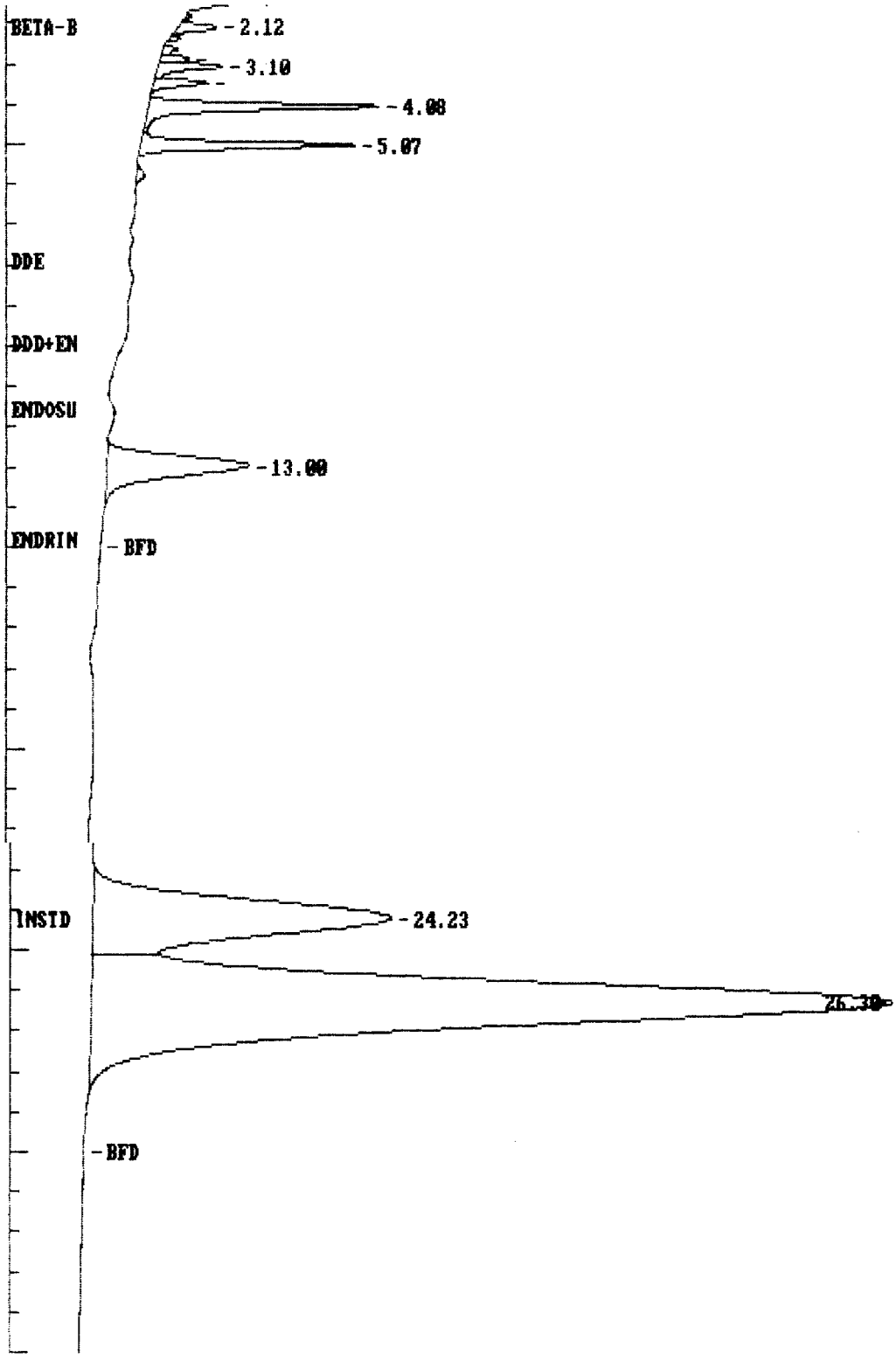
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug\L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	HEIGHT BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
2	2.12	BETA-BHC	0.0068	63.2535%	110189	9233	11.9	2	2	12	0	6.1609E-08
5	2.90		0.0000	0.1335%	61549	6625	9.3	2		12		2.3287E-10
6	3.10		0.0000	0.4125%	190097	15067	12.6	2		12		2.3287E-10
7	3.50		0.0000	0.3111%	143381	12793	11.2	2		12		2.3287E-10
8	4.08		0.0002	1.5422%	710777	54020	13.2	2		12		2.3287E-10
9	5.07		0.0001	1.3423%	618654	50095	12.3	2		12		2.3287E-10
11	13.00		0.0003	2.4659%	1136452	33201	34.2	1		12		2.3287E-10
12	24.23	INSTD MIREX	1.0000	0.0000%	4294237	69580	61.7	2	12	12	0	2.3287E-07
13	26.30		0.0033	30.5389%	14074575	186787	75.4	2		12		2.3287E-10

TOTAL AMOUNT = 0.0107

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
DELTA-BHC	2.40	DELTA-BHC
DDE	7.89	DDE
DDD+ENDRINALDE	9.94	DDD+ENDRINALDE
ENDOSULFAN S04	11.58	ENDOSULFAN S04
ENDRIN KETONE	14.86	ENDRIN KETONE

Data File = W:2FT33.PTS Printed on 03-21-1990 at 11:14:11
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 97737 uv High Value: 287074 uv Scale factor: 1.0



```
******    INTERNAL STANDARD TABLE    ******
******************** 03-22-1990 08:48:17 Version 4.1 **********************
* Sample Name: 90FD10S41                          Data File: E:QP42        *
* Date: 03-20-1990 17:09:26 Method: K:GMET42  03-21-1990 15:06:49  #  48  *
* Interface: 0   Cycle#:  42   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
***************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*             Detector 0: ECD QUANT           Detector 1:                 *
* Misc. Information: TREKKER SF 7035                    PE PCBs           *
***************************************************************************
Starting Delay:    1.50                      Ending retention time:    45.00
Area reject:        0                        One sample per   1.000 sec.
Amount injected:        5.00                 Dilution factor:       10.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

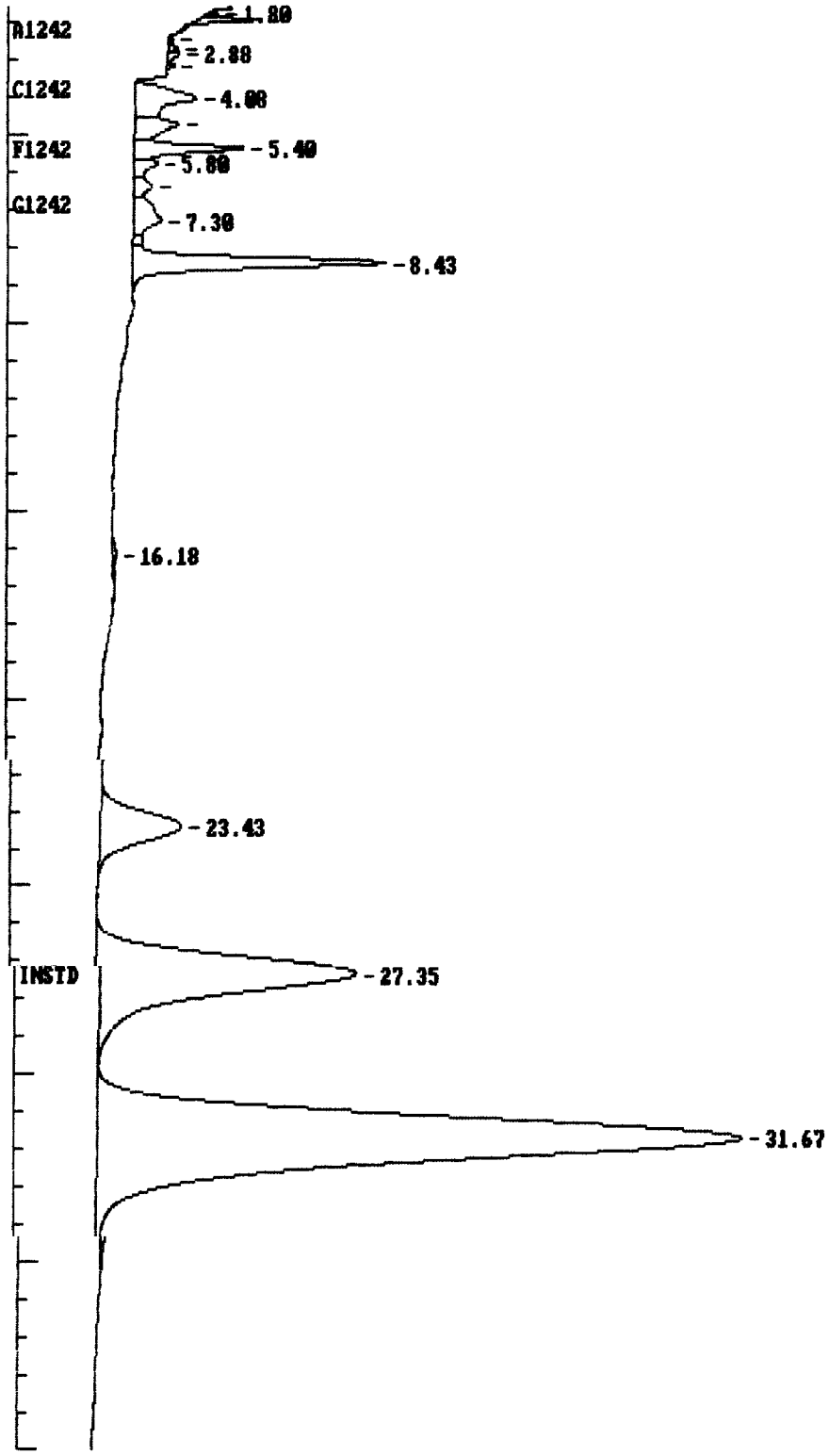
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
5	2.88	B1242	-0.2553	4606.3330%	36280	2839	12.8	2	5	16	0	-7.0357E-06
7	4.08	D1242	0.3674	-6630.4146%	451435	14125	32.0	2	7	16	0	8.1388E-07
8	4.73	E1242	-0.0575	1037.7108%	262091	10072	26.0	2	8	16	0	-2.1940E-07
9	5.40	F1242	-0.0602	1086.3702%	397716	25114	15.8	2	9	16	0	-1.5136E-07
16	27.35	INSTD	1.0000	0.0000%	4065407	58472	69.5	1	16	16	0	2.4598E-07

TOTAL AMOUNT = -0.0055

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
A1242	2.22	A1242
C1242	3.79	C1242
G1242	6.84	G1242

Data File = E:QP42.PTS Printed on 03-22-1990 at 08:48:36
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Full Range: 200 millivolts



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

********** 03-21-1990 15:10:34 Version 4.1 **********

* Sample Name: STD 1242 2 Data File: E:QP44 *
* Date: 03-20-1990 18:31:50 Method: K:GMET42 03-21-1990 15:06:49 # 48 *
* Interface: 0 Cycle#: 44 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

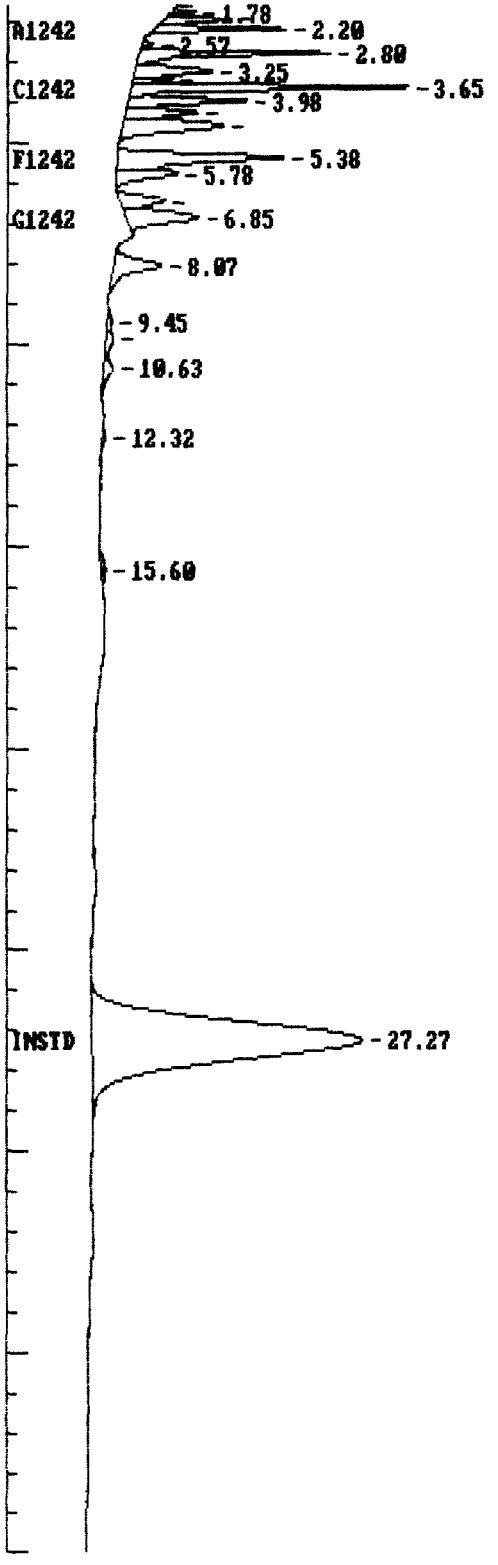
* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER PE PCBs *

Starting Delay: 1.50 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 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	2.20	A1242	0.0131	18.8760%	194613	28587	6.8	2	3	22	0	6.7366E-08
5	2.80	B1242	0.0117	16.7753%	338334	41009	8.3	2	5	22	0	3.4437E-08
8	3.65	C1242	-0.0011	-1.5623%	524261	59628	8.8	2	8	22	0	-2.0697E-09
9	3.98	D1242	0.0136	19.6217%	275135	25550	10.8	2	9	22	0	4.9533E-08
11	4.58	E1242	0.0113	16.2192%	413797	21748	19.0	2	11	22	0	2.7224E-08
12	5.38	F1242	0.0165	23.7537%	540088	36052	15.0	2	12	22	0	3.0547E-08
15	6.85	G1242	0.0044	6.3164%	295345	15417	19.2	2	15	22	0	1.4854E-08
22	27.27	INSTD	1.0000	0.0000%	3863847	58123	66.5	1	22	22	0	2.5881E-07

TOTAL AMOUNT = 0.0695

Data File = E:QP44.PTS Printed on 03-21-1990 at 15:10:53
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Full Range: 200 millivolts

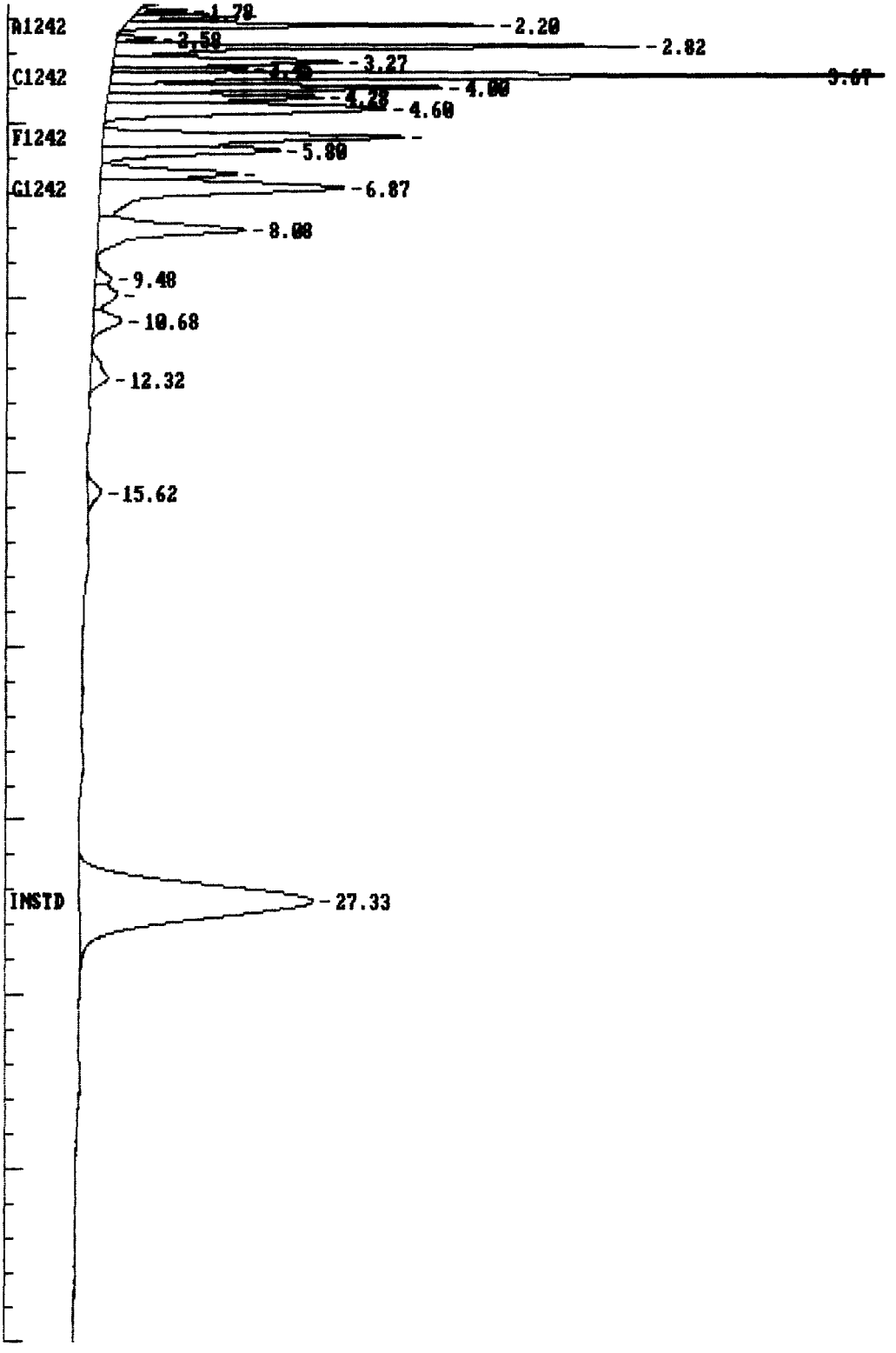


```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 15:11:45 Version 4.1 **********************
* Sample Name: STD 1242 3                          Data File: E:QP45        *
* Date: 03-20-1990 19:13:03 Method: K:GMET42  03-21-1990 15:06:49  #  48   *
* Interface: 0   Cycle#:  45   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
***************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*             Detector 0: ECD QUANT            Detector 1:                 *
* Misc. Information: TREKKER                              PE PCBs          *
***************************************************************************
Starting Delay:    1.50                      Ending retention time:    45.00
Area reject:          0                      One sample per    1.000 sec.
Amount injected:        5.00                 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	2.20	A1242	0.1091	14.4455%	653350	91160	7.2	2	3	22	0	1.6705E-07
5	2.82	B1242	0.1082	14.3176%	1127926	129674	8.7	2	5	22	0	9.5905E-08
8	3.67	C1242	0.1015	13.4320%	1875847	197816	9.5	2	8	22	0	5.4100E-08
9	4.00	D1242	0.1085	14.3566%	907260	82536	11.0	2	9	22	0	1.1956E-07
11	4.60	E1242	0.1066	14.1116%	1337575	69611	19.2	2	11	22	0	7.9709E-08
12	5.40	F1242	0.1074	14.2122%	1194990	74852	16.0	2	12	22	0	8.9856E-08
15	6.87	G1242	0.1143	15.1245%	1525281	60585	25.2	2	15	22	0	7.4917E-08
22	27.33	INSTD	1.0000	0.0000%	3866213	57953	66.7	1	22	22	0	2.5865E-07

TOTAL AMOUNT = 0.7555

Data File = E:QP45.PTS Printed on 03-21-1990 at 15:12:06
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Full Range: 200 millivolts

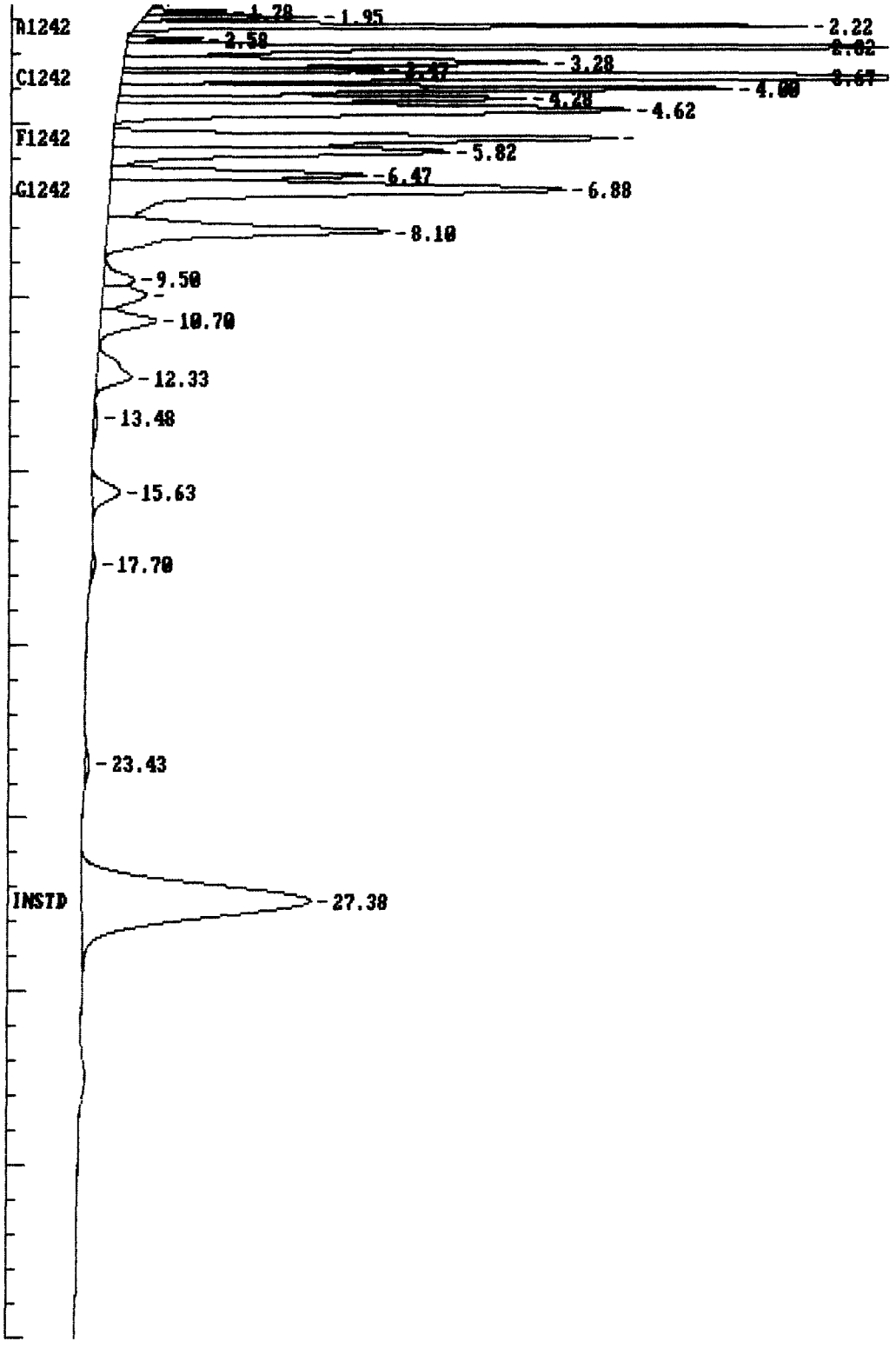


```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 15:13:02 Version 4.1 **********************
* Sample Name: STD 1242 4                          Data File: E:QF46        *
* Date: 03-20-1990 19:54:18 Method: K:GMET42  03-21-1990 15:06:49  #  48   *
* Interface: 0   Cycle#:  46   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
***************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                    *
*             Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information: TREKKER                                PE PCBs        *
***************************************************************************
Starting Delay:    1.50                      Ending retention time:   45.00
Area reject:        0                        One sample per   1.000 sec.
Amount injected:       5.00                  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	2.22	A1242	0.2289	14.0582%	1199696	166228	7.2	2	3	25	0	1.9079E-07
5	2.82	B1242	0.2314	14.2114%	2091032	236443	8.8	2	5	25	0	1.1065E-07
8	3.67	C1242	0.2367	14.5369%	3580747	371394	9.6	2	8	25	0	6.6098E-08
9	4.00	D1242	0.2318	14.2359%	1692899	151703	11.2	2	9	25	0	1.3691E-07
11	4.62	E1242	0.2334	14.3333%	2511709	127299	19.7	2	11	25	0	9.2911E-08
12	5.42	F1242	0.2320	14.2505%	2049114	124870	16.4	2	12	25	0	1.1323E-07
15	6.88	G1242	0.2340	14.3739%	2805807	112920	24.8	2	15	25	0	8.3408E-08
25	27.38	INSTD	1.0000	0.0000%	3785616	56693	66.8	1	25	25	0	2.6416E-07

TOTAL AMOUNT = 1.6281

Data File = E:QP46.PTS Printed on 03-21-1990 at 15:13:23
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Full Range: 200 millivolts

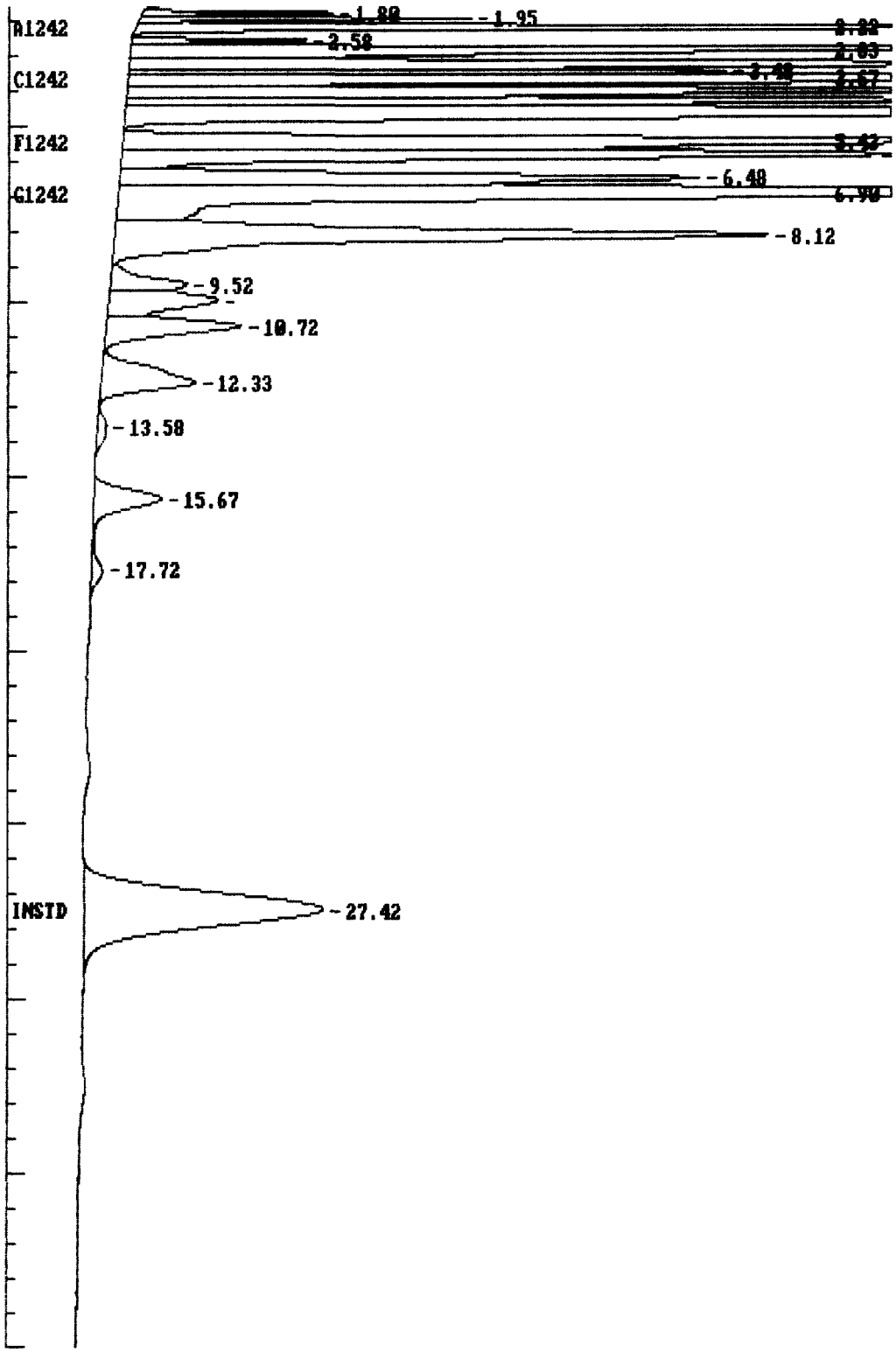


```
******     INTERNAL STANDARD TABLE     ******
******************** 03-21-1990 15:14:23 Version 4.1 **********************
* Sample Name: STD 1242 5                        Data File: E:QP47         *
* Date: 03-20-1990 20:35:33 Method: K:GMET42  03-21-1990 15:06:49  #  48  *
* Interface: 0   Cycle#:  47   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*             Detector 0: ECD QUANT            Detector 1:                *
* Misc. Information: TREKKER                                PE PCBs       *
*************************************************************************
Starting Delay:    1.50                      Ending retention time:    45.00
Area reject:         0                       One sample per    1.000 sec.
Amount injected:        5.00                 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	2.22	A1242	0.5259	14.1732%	2671596	369249	7.2	2	3	24	0	1.9686E-07
5	2.83	B1242	0.5271	14.2050%	4601845	512264	9.0	2	5	24	0	1.1454E-07
8	3.67	C1242	0.5693	15.3415%	8123086	816530	9.9	2	8	24	0	7.0083E-08
9	4.02	D1242	0.5198	14.0075%	3686286	335237	11.0	2	9	24	0	1.4101E-07
11	4.62	E1242	0.5279	14.2273%	5475056	276493	19.8	2	11	24	0	9.6427E-08
12	5.43	F1242	0.5153	13.8874%	4176654	254416	16.4	2	12	24	0	1.2338E-07
15	6.90	G1242	0.5254	14.1581%	6190370	249914	24.8	2	15	24	0	8.4870E-08
24	27.42	INSTD	1.0000	0.0000%	3906719	58911	66.3	1	24	24	0	2.5597E-07

TOTAL AMOUNT = 3.7108

Data File = E:QP47.PTS Printed on 03-21-1990 at 15:14:44
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Full Range: 200 millivolts

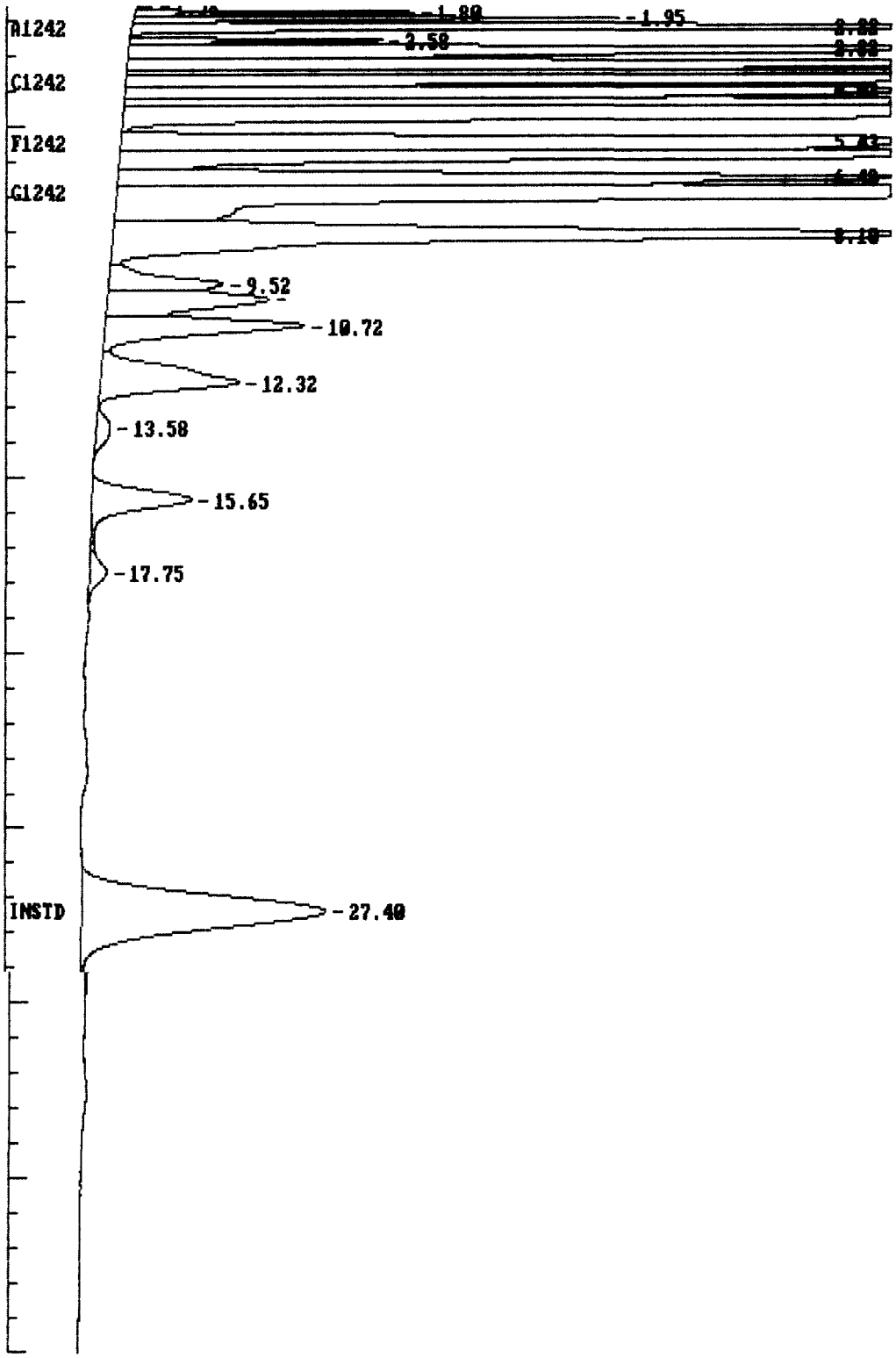


```
******    INTERNAL STANDARD TABLE    ******
******************** 03-21-1990 15:15:47 Version 4.1 **********************
* Sample Name: STD 1242 6                          Data File: E:QP48        *
* Date: 03-20-1990 21:16:46 Method: K:GMET42  03-21-1990 15:06:49  #  48   *
* Interface: 0   Cycle#:  48   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD QUANT            Detector 1:                 *
* Misc. Information: TREKKER                            PE PCBs           *
*************************************************************************
Starting Delay:    1.50                      Ending retention time:    45.00
Area reject:        0                        One sample per   1.000 sec.
Amount injected:        5.00                 Dilution factor:        1.00
Internal Standard Amount:  1
Sample Weight:          1.000000
```

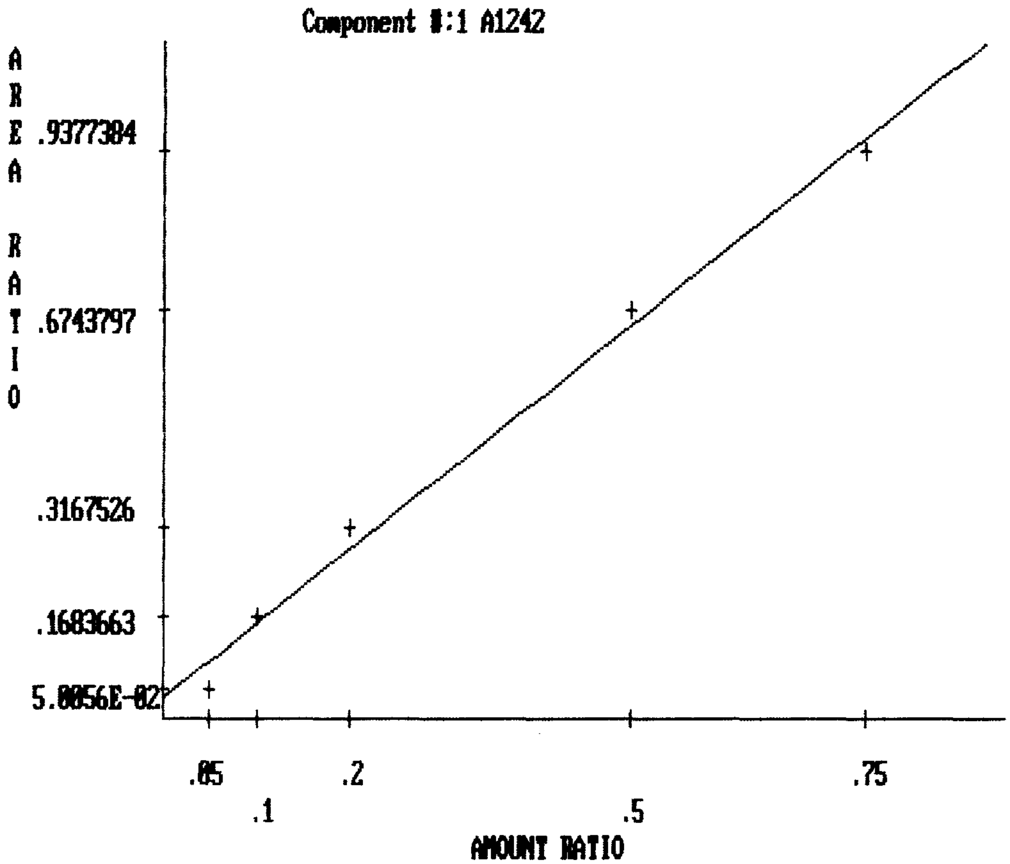
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	2.22	A1242	0.7336	14.3500%	3766791	514799	7.3	2	4	25	0	1.9476E-07
6	2.82	B1242	0.7324	14.3267%	6457902	713532	9.1	2	6	25	0	1.1342E-07
9	3.70	C1242	0.7051	13.7920%	10182220	858444	11.9	2	9	25	0	6.9248E-08
10	4.02	D1242	0.7370	14.4152%	5278780	470452	11.2	2	10	25	0	1.3961E-07
12	4.62	E1242	0.7316	14.3107%	7657252	387245	19.8	2	12	25	0	9.5546E-08
13	5.43	F1242	0.7402	14.4785%	5960275	358228	16.6	2	13	25	0	1.2419E-07
16	6.88	G1242	0.7324	14.3269%	8747860	352559	24.8	2	16	25	0	8.3729E-08
25	27.40	INSTD	1.0000	0.0000%	4005509	60034	66.7	1	25	25	0	2.4966E-07

TOTAL AMOUNT = 5.1124

Data File = E:QP48.PTS Printed on 03-21-1990 at 15:16:08
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Full Range: 200 millivolts



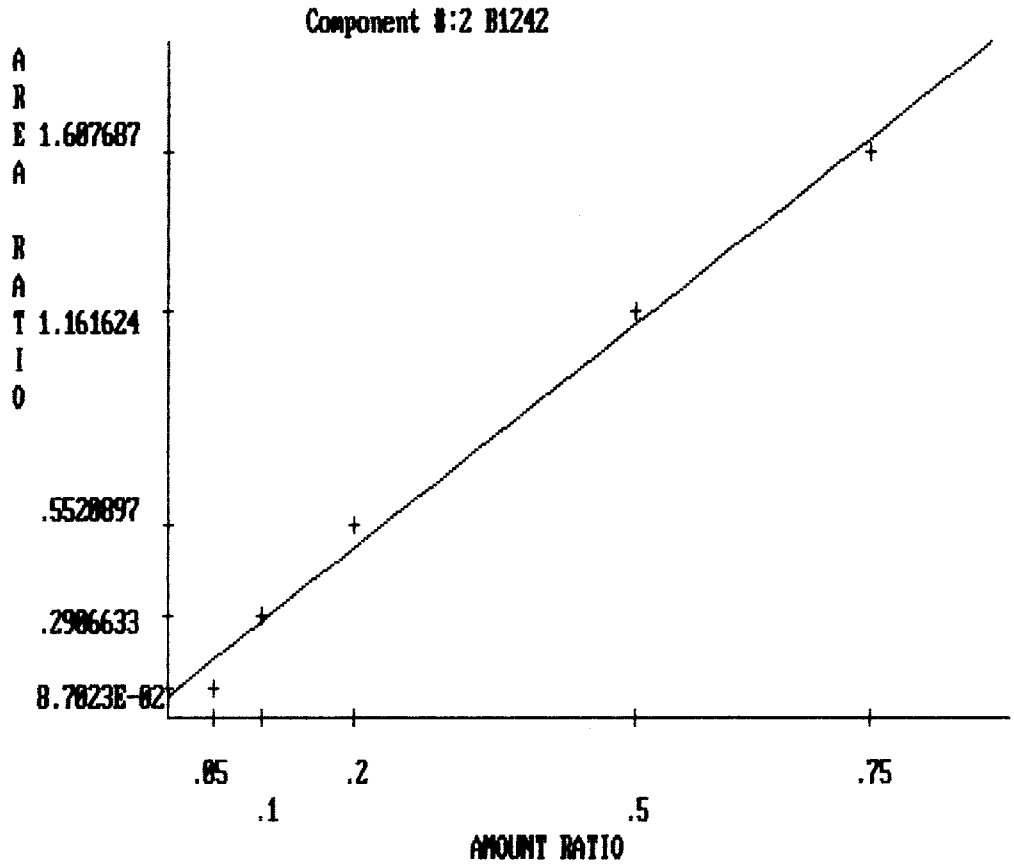
Method K:GMET42
Sample
Operator JV
Run date 03-21-1990 15:06:49 version: 48
Printed on 03-22-1990 AT 09:07:02
Straight Line fit



Component 1 = A1242
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	194613	0.0500	0.0501
2	0.1000	653350	0.1000	0.1684
3	0.2000	1199696	0.2000	0.3168
4	0.5000	2671596	0.5000	0.6744
5	0.7500	3766791	0.7500	0.9377

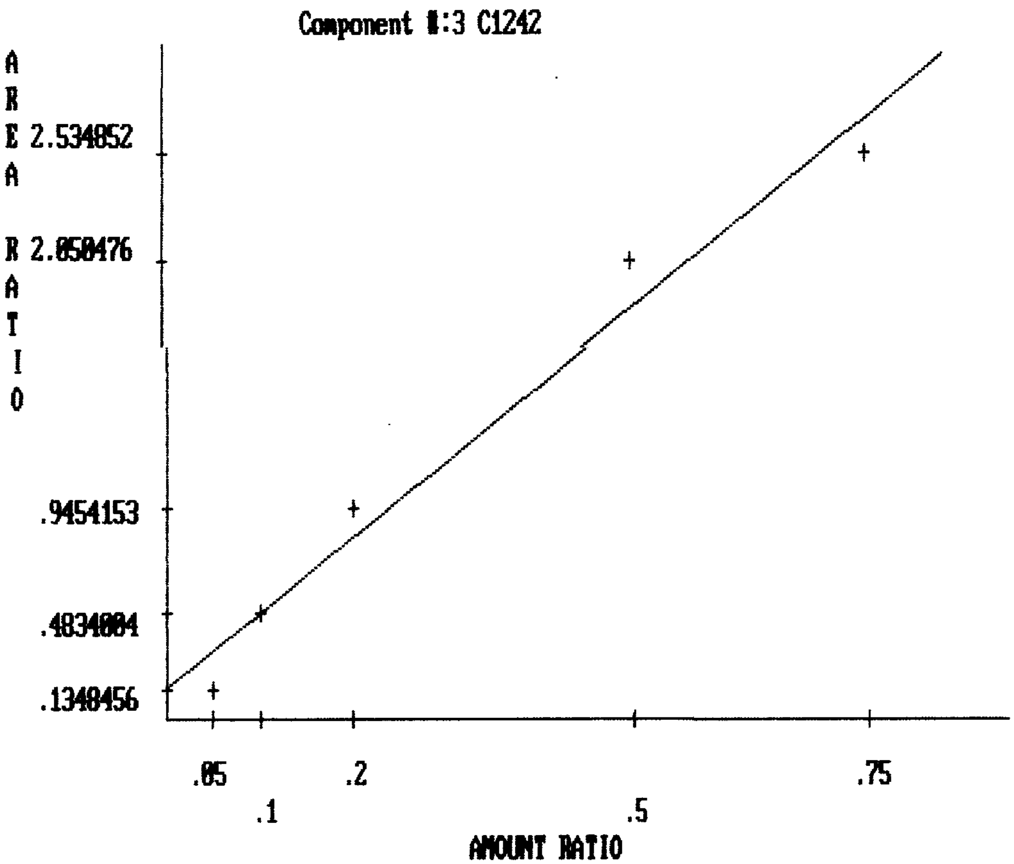
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.2353E+00 * Amt ratio + 3.4173E-02
Amt ratio = 8.0954E-01 * Area ratio + -2.7664E-02
Correlation Coefficient = 0.9917



Component 2 = B1242
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	338334	0.0500	0.0870
2	0.1000	1127926	0.1000	0.2907
3	0.2000	2091032	0.2000	0.5521
4	0.5000	4601845	0.5000	1.1616
5	0.7500	6457902	0.7500	1.6077

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.1153E+00 * Amt ratio + 6.2918E-02
Amt ratio = 4.7274E-01 * Area ratio + -2.9744E-02
Correlation Coefficient = 0.9908



Component 3 = C1242
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	524261	0.0500	0.1348
2	0.1000	1875847	0.1000	0.4834
3	0.2000	3580747	0.2000	0.9454
4	0.5000	8123086	0.5000	2.0505
5	0.7500	10182220	0.7500	2.5349

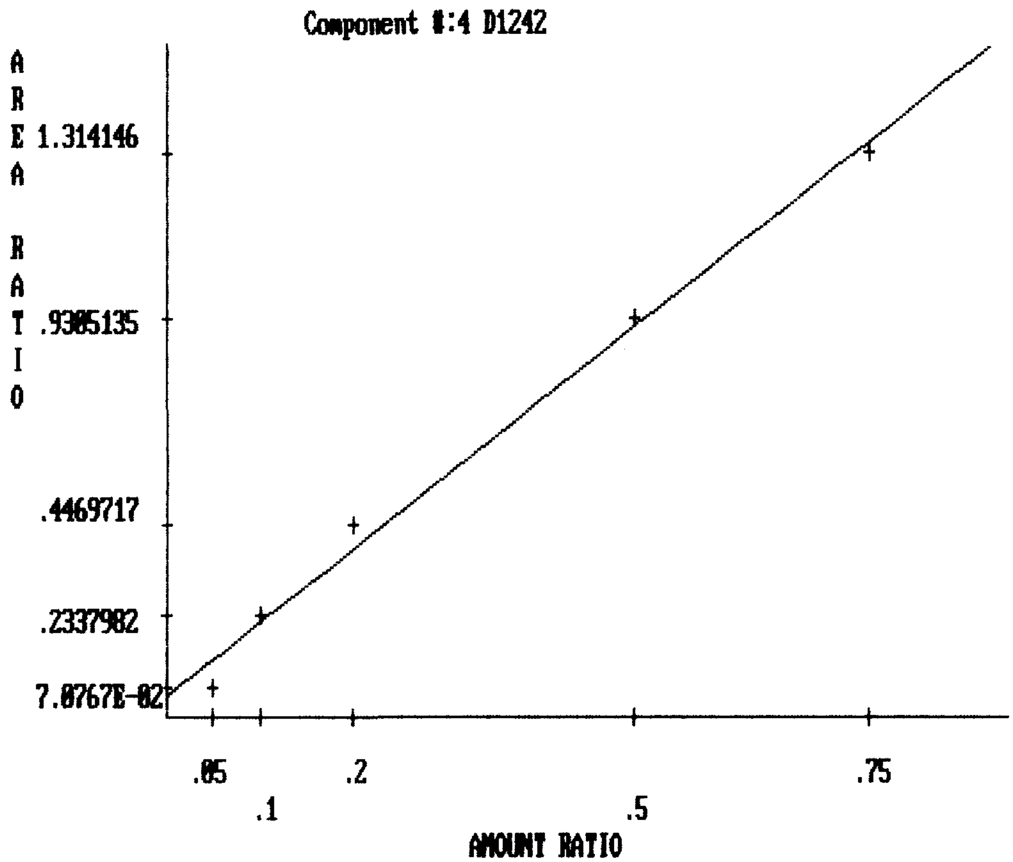
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 3.4076E+00 * Amt ratio + 1.3938E-01

Amt ratio = 2.9347E-01 * Area ratio + -4.0904E-02

Correlation Coefficient = 0.9728



Component 4 = D1242

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	275135	0.0500	0.0708
2	0.1000	907260	0.1000	0.2338
3	0.2000	1692899	0.2000	0.4470
4	0.5000	3686286	0.5000	0.9305
5	0.7500	5278780	0.7500	1.3141

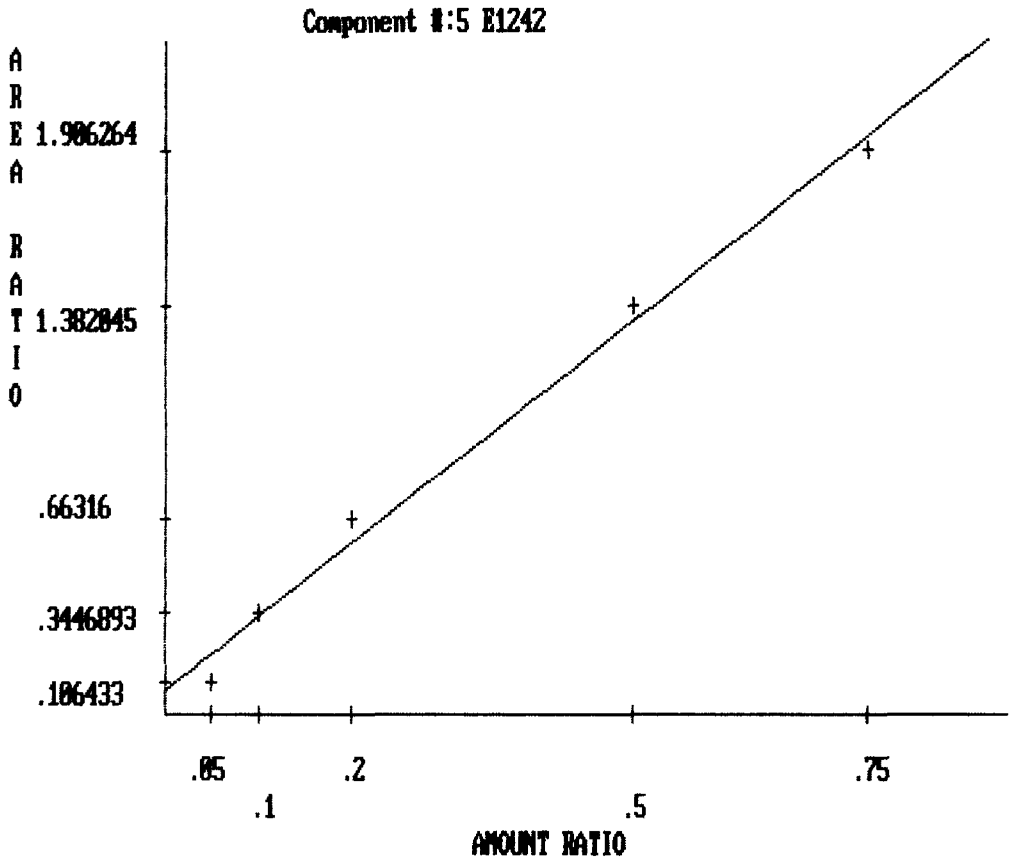
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 1.7235E+00 * Amt ratio + 4.7719E-02

Amt ratio = 5.8021E-01 * Area ratio + -2.7687E-02

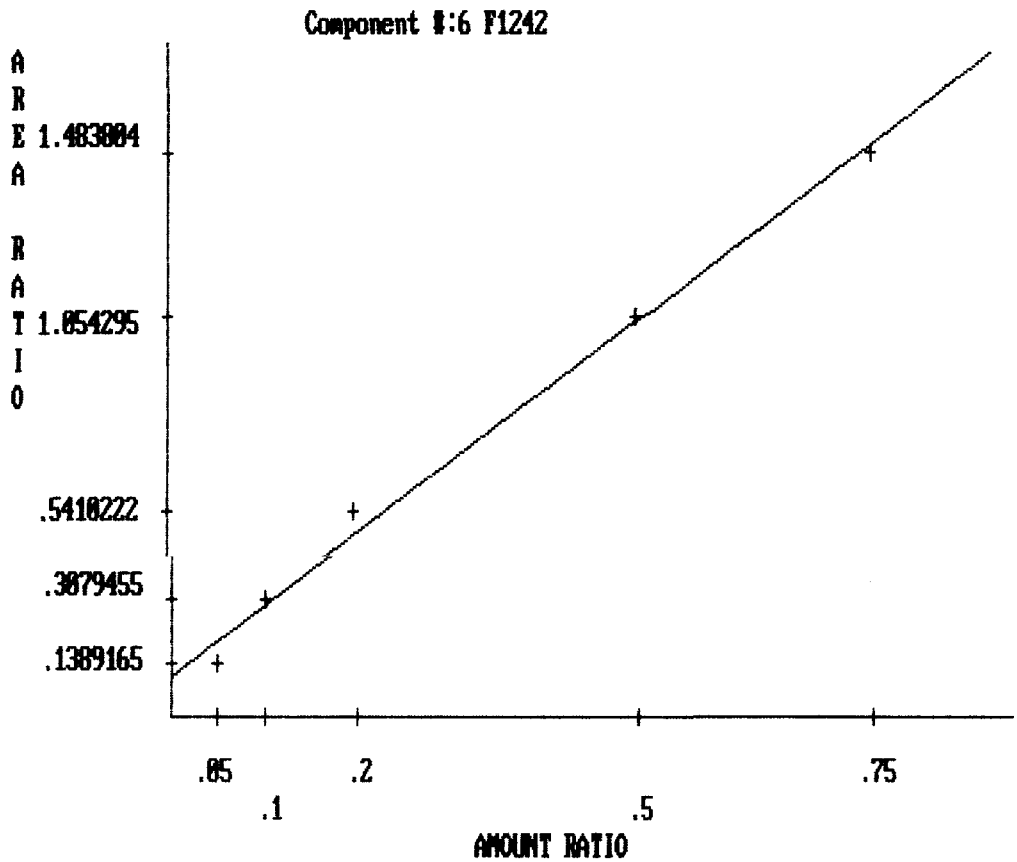
Correlation Coefficient = 0.9922



Component 5 = E1242
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	413797	0.0500	0.1064
2	0.1000	1337575	0.1000	0.3447
3	0.2000	2511709	0.2000	0.6632
4	0.5000	5475056	0.5000	1.3820
5	0.7500	7657252	0.7500	1.9063

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 2.5051E+00 * Amt ratio + 7.8874E-02
Amt ratio = 3.9918E-01 * Area ratio + -3.1485E-02
Correlation Coefficient = 0.9902



Component 6 = F1242
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	540088	0.0500	0.1389
2	0.1000	1194990	0.1000	0.3079
3	0.2000	2049114	0.2000	0.5410
4	0.5000	4176654	0.5000	1.0543
5	0.7500	5960275	0.7500	1.4838

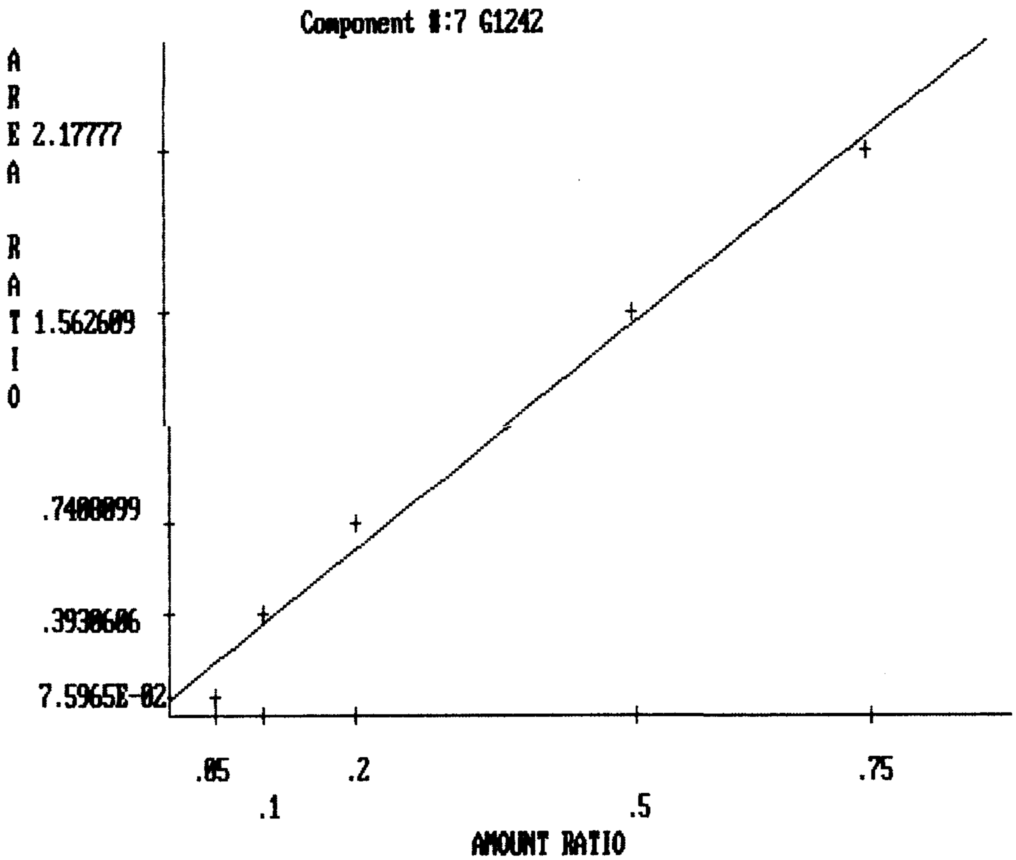
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 1.8630E+00 * Amt ratio + 1.0904E-01

Amt ratio = 5.3678E-01 * Area ratio + -5.8532E-02

Correlation Coefficient = 0.9932



Component 7 = G1242

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0500	295345	0.0500	0.0760
2	0.1000	1525281	0.1000	0.3931
3	0.2000	2805807	0.2000	0.7408
4	0.5000	6190370	0.5000	1.5626
5	0.7500	8747860	0.7500	2.1778

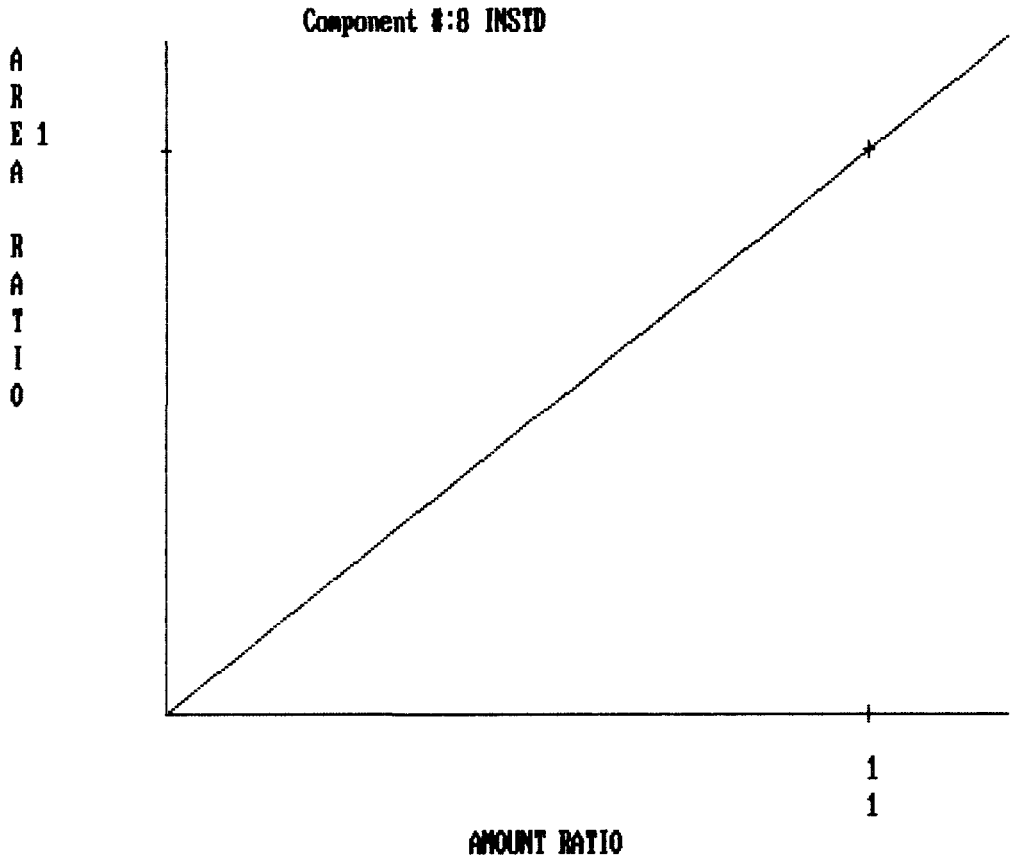
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.8947E+00 * Amt ratio + 6.3739E-02

Amt ratio = 3.4546E-01 * Area ratio + -2.2019E-02

Correlation Coefficient = 0.9884



Component 8 = INSTD
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	1.0000	3887864	1.0000	1.0000
2	1.0000	3880524	1.0000	1.0000
3	1.0000	3787486	1.0000	1.0000
4	1.0000	3961561	1.0000	1.0000
5	1.0000	4016889	1.0000	1.0000

Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 1.0000E+00 * Amt ratio + 0.0000E+00

Amt ratio = 1.0000E+00 * Area ratio + 0.0000E+00

Correlation Coefficient = 0.0000

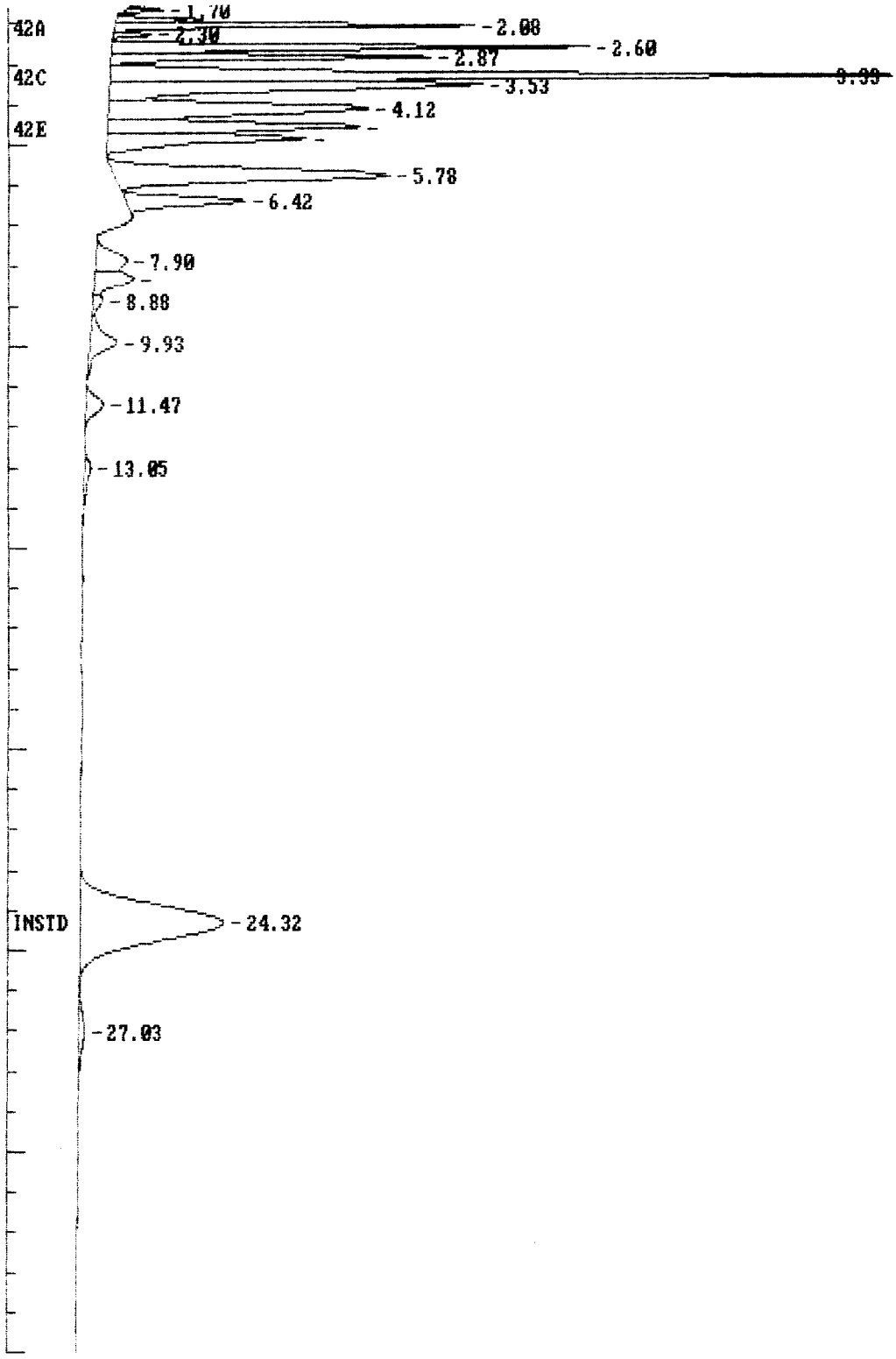
INTERNAL STANDARD TABLE

```
******************** 03-21-1990 10:42:12 Version 4.1 ************************
* Sample Name: STD 1242 2                          Data File: W:2FT26        *
* Date: 03-20-1990 06:45:54 Method: W:CONF42  03-21-1990 08:44:03  #  21    *
* Interface: 0   Cycle#:  26   Operator AK  Channel#: 0    Vial#: N.A.       *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000              *
*****************************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE           *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                           *
*             Detector 0: ECD CONF            Detector 1:                   *
* Misc. Information: TREKKER                                                *
*****************************************************************************
Starting Delay:    1.50                      Ending retention time:    40.00
Area reject:         0                       One sample per    1.000 sec.
Amount injected:        5.00                 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	2.08	42A	0.1990	19.4715%	1268754	183469	6.9	2	3	20	0	1.5685E-07
5	2.60	42B	0.2054	20.0978%	2075641	243359	8.5	2	5	20	0	9.8958E-08
7	3.33	42C	0.2071	20.2673%	4413542	399371	11.1	2	7	20	0	4.6932E-08
9	4.12	42D	0.1959	19.1702%	2530003	132551	19.1	2	9	20	0	7.7439E-08
10	4.58	42E	0.2146	20.9932%	1870408	128880	14.5	2	10	20	0	1.1471E-07
20	24.32	INSTD MIREX	1.0000	0.0000%	4542000	73180	62.1	2	20	20	0	2.2017E-07

TOTAL AMOUNT = 1.0220

Data File = W:2FT26.PTS Printed on 03-21-1990 at 10:42:30
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 97206 uv High Value: 512958 uv Scale factor: 1.0



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

****

INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7035 DATE: 3/21/90 GC # 2

COLUMN TYPE MIXED PHASE FILE NAME QP

VERSION: 59 STANDARD NA NAME: A 3

COMPOUND	INITIAL AREA QP25	CONT AREA QP39	% RPD	INITIAL RT	CONTIN. RT	% RPD
ALPHA BHC	1916236	1921353	-0	2.53	2.43	4
LINDANE	1408166	1422692	-1	3.20	3.07	4
HEPTACHLOR	1452070	1436768	1	3.92	3.75	4
ALDRIN	2750129	2768166	-1	4.73	4.53	4
HEPT EPOX	3423542	3427286	-0	7.08	6.77	4
ENDO I	3877138	3816829	2	8.93	8.53	5
DIELDRIN	3801636	3767488	1	10.92	10.45	4
ENDRIN	4191870	4245515	-1	13.25	12.68	4
ENDO II	8808138	8000907	10	16.10	15.40	4
DDT	6236056	5557620	12	18.97	18.15	4
ISTD	5009364	4746235	5	28.88	27.58	5
DBC	6110466	5906029	3	33.43	31.92	5
METHOX	4744156	4583860	0	36.15	34.52	5

Output redirected to LPT1:
NEW TIMED EVENTS FROM K:Q23

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

********** 03-21-1990 14:07:16 Version 4.1 **********

* Sample Name: STD A 1 Data File: E:QP23 *
* Date: 03-20-1990 04:06:39 Method: K:1PESTA 03-21-1990 10:25:56 # 59 *
* Interface: 0 Cycle#: 23 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

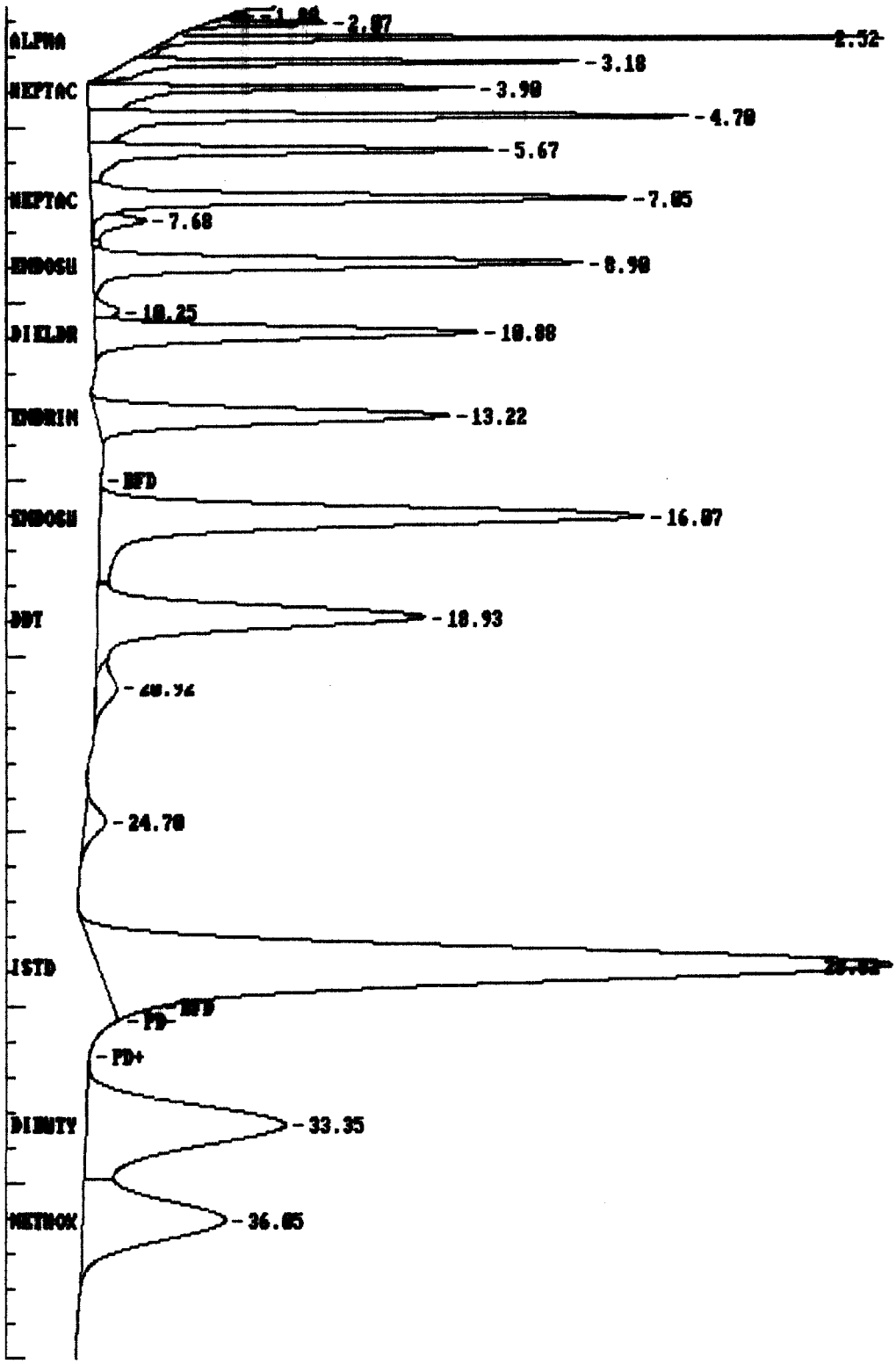
* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER SF 7035 PE PCBs *

Starting Delay: 1.50 Ending retention time: 40.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 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	2.52	ALPHA BHC	0.0015	3.1169%	547601	80035	6.8	2	3	18	0	2.6979E-09
4	3.18	LINDANE	0.0012	2.6155%	525016	52063	10.1	2	4	18	0	2.3613E-09
5	3.90	HEPTACHLOR	0.0012	2.4567%	575095	44145	13.0	2	5	18	0	2.0248E-09
6	4.70	ALDRIN	0.0024	5.1518%	985099	68463	14.4	2	6	18	0	2.4789E-09
8	7.05	HEPTACHLOR EPOXIDE	0.0026	5.4566%	1126618	61157	18.4	3	8	18	0	2.2957E-09
10	8.90	ENDOSULFAN I	0.0032	6.7749%	1217903	55922	21.8	2	10	18	0	2.6367E-09
12	10.88	DIELDRIN	0.0032	6.8416%	1124240	43719	25.7	2	12	18	0	2.8845E-09
13	13.22	ENDRIN	0.0056	11.9184%	1201914	40424	29.7	1	13	18	0	4.7002E-09
14	16.07	ENDOSULFAN II	0.0062	13.0929%	2478586	62265	39.8	2	14	18	0	2.5038E-09
15	18.93	DDT	0.0070	14.8240%	1709977	37580	45.5	3	15	18	0	4.1091E-09
18	28.82	ISTD	1.0000	0.0000%	6190502	90881	68.1	1	18	18	0	1.6154E-07
19	33.35	DIBUTYLCHLOR	0.0051	10.8547%	1941701	22847	85.0	2	19	18	0	2.6498E-09
20	36.05	METHOXYCHLOR	0.0080	16.8960%	1351921	16400	82.4	2	20	18	0	5.9239E-09

TOTAL AMOUNT = 0.0474

Data File = E:QP23.PTS Printed on 03-21-1990 at 14:09:32
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 101070 uv High Value: 194446 uv Scale factor: 1.0

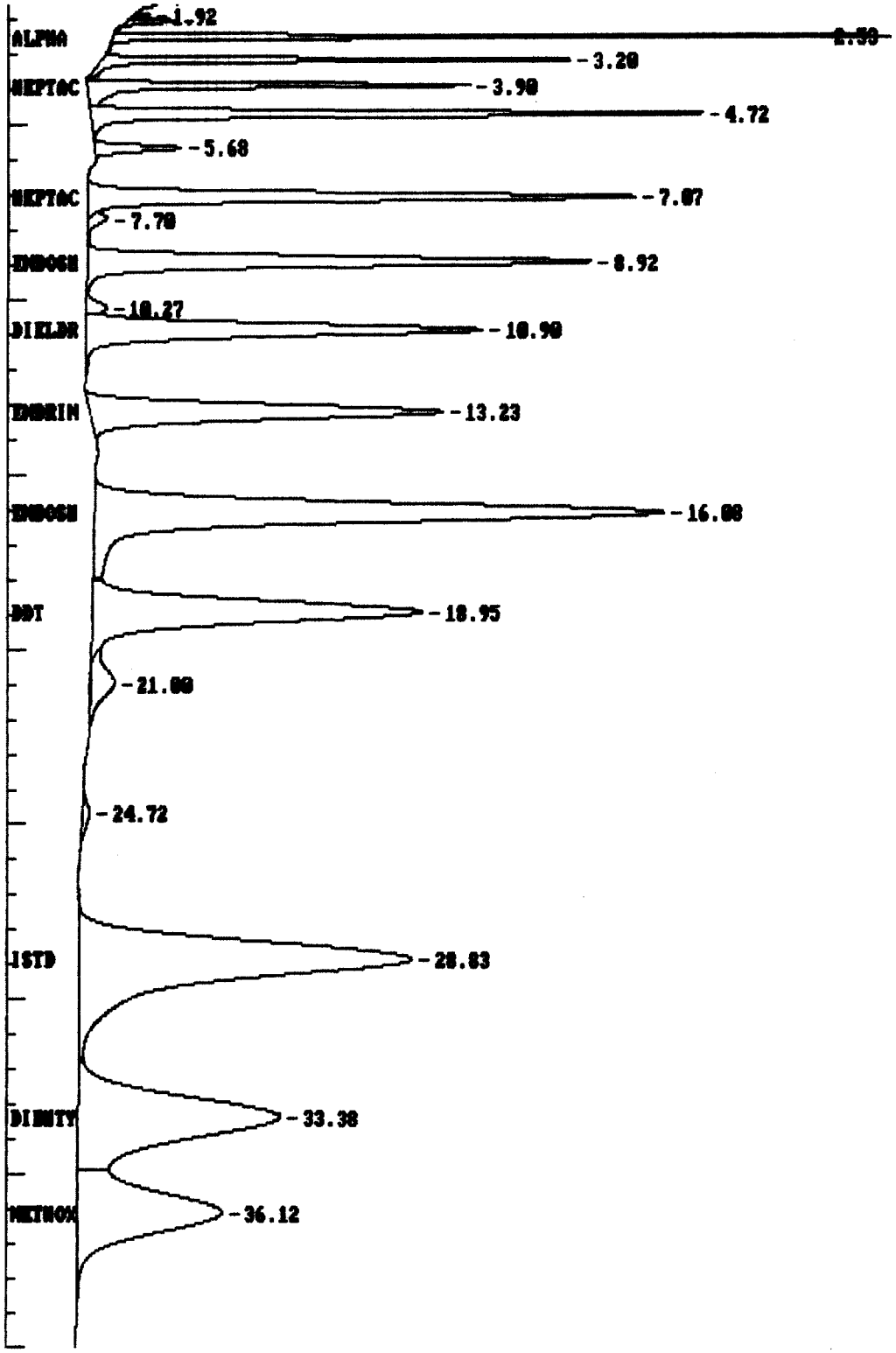


```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 10:26:18 Version 4.1 ********************
* Sample Name: STD A 2                          Data File: E:QP24        *
* Date: 03-20-1990 04:47:50 Method: K:1PESTA  03-21-1990 10:25:56  #  59  *
* Interface: 0   Cycle#:  24   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD QUANT          Detector 1:                   *
* Misc. Information: TREKKER SF 7035                    PE PCBs           *
*************************************************************************
Starting Delay:    1.50                    Ending retention time:    45.00
Area reject:        0                      One sample per    1.000 sec.
Amount injected:        5.00               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	2.53	ALPHA BHC	0.0030	2.7457%	854839	139763	6.1	1	3	18	0	3.5247E-09
4	3.20	LINDANE	0.0025	2.2350%	689515	84273	8.2	1	4	18	0	3.5571E-09
5	3.90	HEPTACHLOR	0.0025	2.2607%	736758	68612	10.7	2	5	18	0	3.3673E-09
6	4.72	ALDRIN	0:0049	4.4382%	1311007	109718	11.9	2	6	18	0	3.7151E-09
8	7.07	HEPTACHLOR EPOXIDE	0.0063	5.7279%	1682585	98401	17.1	3	8	18	0	3.7358E-09
10	8.92	ENDOSULFAN I	0.0077	6.9853%	1903616	90476	21.0	2	10	18	0	4.0268E-09
12	10.90	DIELDRIN	0.0077	6.9809%	1830239	71195	25.7	2	12	18	0	4.1856E-09
13	13.23	ENDRIN	0.0122	11.0781%	1877391	63424	29.6	1	13	18	0	6.4754E-09
14	16.08	ENDOSULFAN II	0.0148	13.4683%	4015222	102244	39.3	2	14	18	0	3.6810E-09
15	18.95	DDT	0.0141	12.8501%	2624970	59305	44.3	3	15	18	0	5.3721E-09
18	28.83	ISTD	1.0000	0.0000%	4527787	59759	75.8	2	18	18	0	2.2086E-07
19	33.38	DIBUTYLCHLOR	0.0156	14.2383%	3111118	36281	85.8	2	19	18	0	5.0223E-09
20	36.12	METHOXYCHLOR	0.0186	16.9914%	2175398	25925	83.9	2	20	18	0	8.5714E-09

TOTAL AMOUNT = 0.1097

Data File = E:QP24.PTS Printed on 03-21-1990 at 10:26:42
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 101831 uv High Value: 247707 uv Scale factor: 1.0

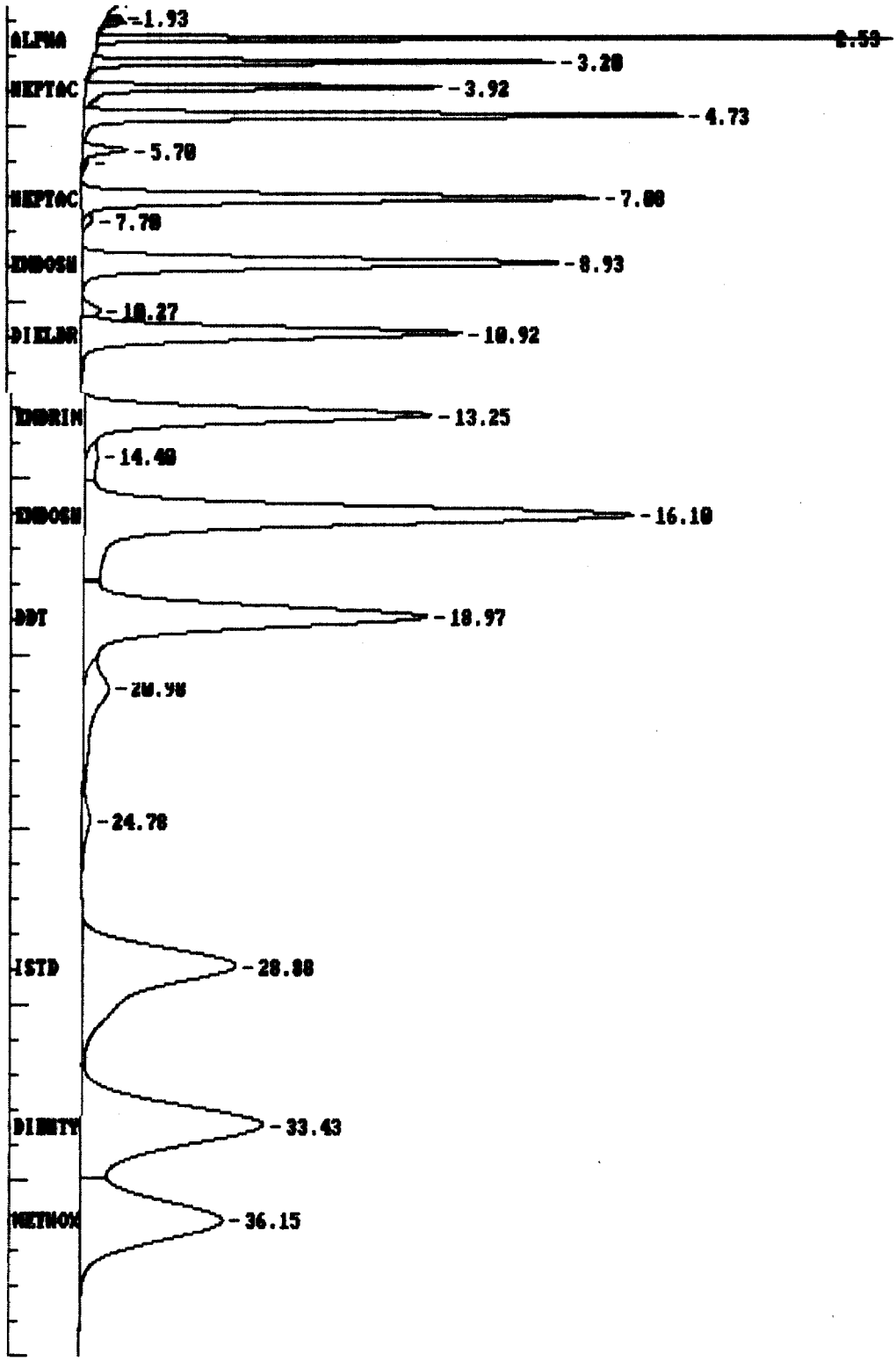


```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 13:59:42 Version 4.1 **********************
* Sample Name: STD A 3                          Data File: E:QP25          *
* Date: 03-20-1990 05:29:02 Method: K:1PESTA  03-21-1990 10:25:56  #  59   *
* Interface: 0   Cycle#:  25   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD QUANT            Detector 1:                 *
* Misc. Information: TREKKER                                PE PCBs       *
*************************************************************************
Starting Delay:    1.50                    Ending retention time:    45.00
Area reject:        0                      One sample per    1.000 sec.
Amount injected:        5.00               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	2.53	ALPHA BHC	0.0060	2.7219%	1916236	317400	6.0	1	3	20	0	3.1196E-09
4	3.20	LINDANE	0.0048	2.1711%	1408166	184772	7.6	1	4	20	0	3.3862E-09
5	3.92	HEPTACHLOR	0.0049	2.2212%	1450070	142391	10.2	2	5	20	0	3.3595E-09
6	4.73	ALDRIN	0.0097	4.4174%	2709129	238548	11.5	2	6	20	0	3.5277E-09
9	7.08	HEPTACHLOR EPOXIDE	0.0124	5.6318%	3423942	205899	16.6	3	9	20	0	3.6129E-09
11	8.93	ENDOSULFAN I	0.0147	6.6957%	3877138	189452	20.5	2	11	20	0	3.7929E-09
13	10.92	DIELDRIN	0.0147	6.6929%	3801636	151662	25.1	2	13	20	0	3.8666E-09
14	13.25	ENDRIN	0.0246	11.2089%	4191870	138450	30.3	3	14	20	0	5.8727E-09
16	16.10	ENDOSULFAN II	0.0301	13.7246%	8808138	218777	40.3	2	16	20	0	3.4221E-09
17	18.97	DDT	0.0296	13.4801%	6236056	137086	45.5	3	17	20	0	4.7475E-09
20	28.88	ISTD	1.0000	0.0000%	5009344	61263	81.8	2	20	20	0	1.9963E-07
21	33.43	DIBUTYLCHLOR	0.0306	13.9206%	6110466	72621	84.1	2	21	20	0	5.0034E-09
22	36.15	METHOXYCHLOR	0.0376	17.1136%	4744156	56806	83.5	2	22	20	0	7.9225E-09

TOTAL AMOUNT = 0.2196

Data File = E:QP25.PTS Printed on 03-21-1990 at 14:00:06
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 103445 uv High Value: 428830 uv Scale factor: 1.0



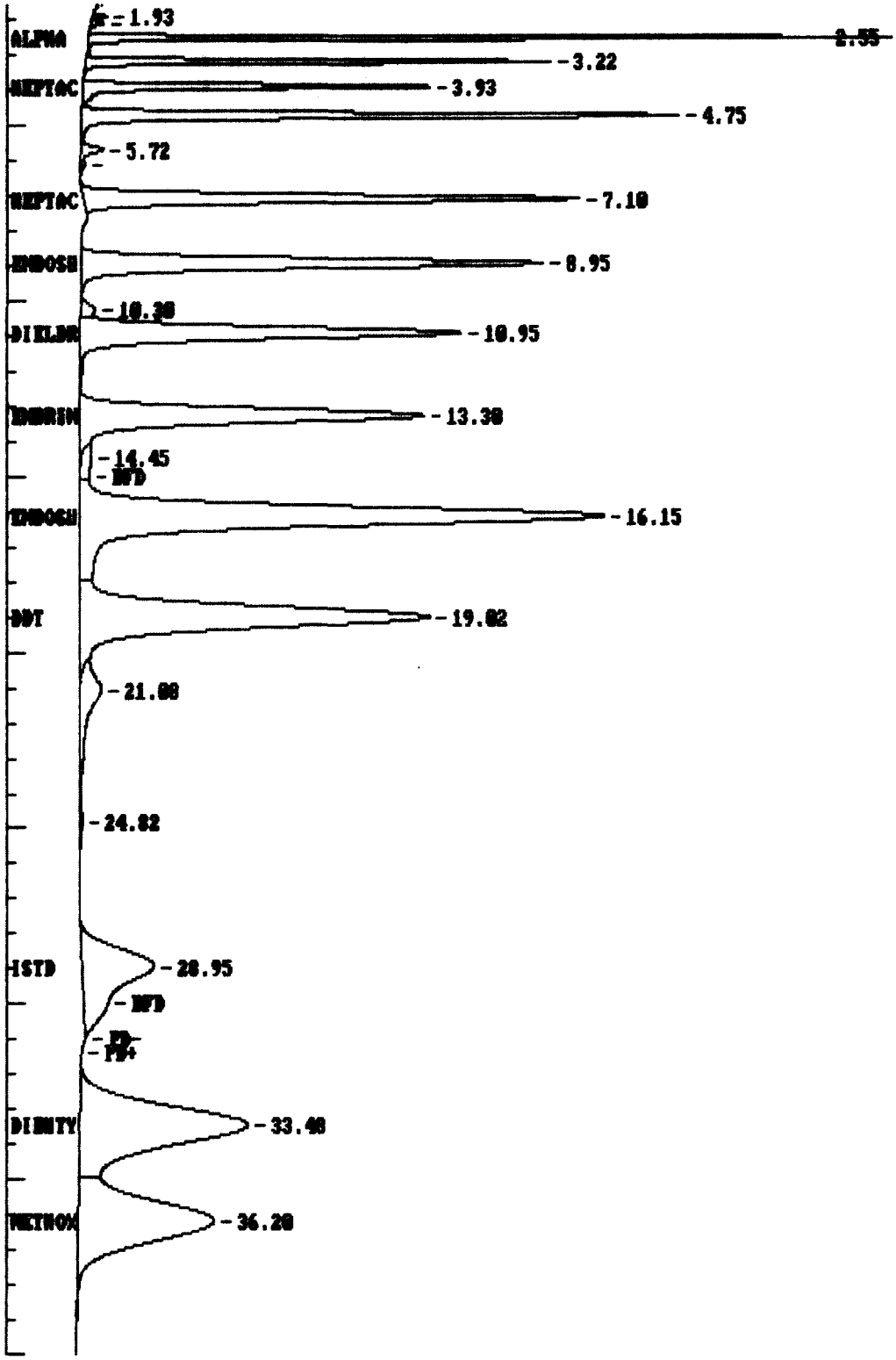
NEW TIMED EVENTS FROM K:Z27

```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 14:14:01 Version 4.1 **********************
* Sample Name: STD A 5                          Data File: E:QP27          *
* Date: 03-20-1990 06:51:27 Method: K:1PESTA 03-21-1990 10:25:56  #  59    *
* Interface: 0   Cycle#:  27   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information: TREKKER                              PE PCBs         *
*************************************************************************
Starting Delay:    1.50                      Ending retention time:    40.00
Area reject:        0                        One sample per   1.000 sec.
Amount injected:        5.00                 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	0.0128	2.8624%	4255635	693289	6.1	1	3	19	0	3.0068E-09
4	3.22	LINDANE	0.0103	2.2971%	3017358	400817	7.5	1	4	19	0	3.4032E-09
5	3.93	HEPTACHLOR	0.0102	2.2899%	2950386	298872	9.9	2	5	19	0	3.4695E-09
6	4.75	ALDRIN	0.0205	4.5937%	5811684	513973	11.3	2	6	19	0	3.5334E-09
9	7.10	HEPTACHLOR EPOXIDE	0.0252	5.6348%	6889992	427254	16.1	1	9	19	0	3.6559E-09
10	8.95	ENDOSULFAN I	0.0305	6.8227%	8054441	397507	20.3	2	10	19	0	3.7866E-09
12	10.95	DIELDRIN	0.0306	6.8382%	8010374	328083	24.4	2	12	19	0	3.8161E-09
13	13.30	ENDRIN	0.0505	11.2929%	8804728	296331	29.7	3	13	19	0	5.7336E-09
15	16.15	ENDOSULFAN II	0.0603	13.4910%	17832732	451229	39.5	2	15	19	0	3.3819E-09
16	19.02	DDT	0.0609	13.6223%	13297322	301475	44.1	3	16	19	0	4.5795E-09
19	28.95	ISTD	1.0000	0.0000%	5139564	61914	83.0	1	19	19	0	1.9457E-07
20	33.48	DIBUTYLCHLOR	0.0598	13.3861%	11629599	144802	80.3	2	20	19	0	5.1455E-09
21	36.20	METHOXYCHLOR	0.0754	16.8690%	9656690	117154	82.4	2	21	19	0	7.8090E-09

TOTAL AMOUNT = 0.4470

Data File = E:QP27.PTS Printed on 03-21-1990 at 14:14:39
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 104791 uv High Value: 807768 uv Scale factor: 1.0

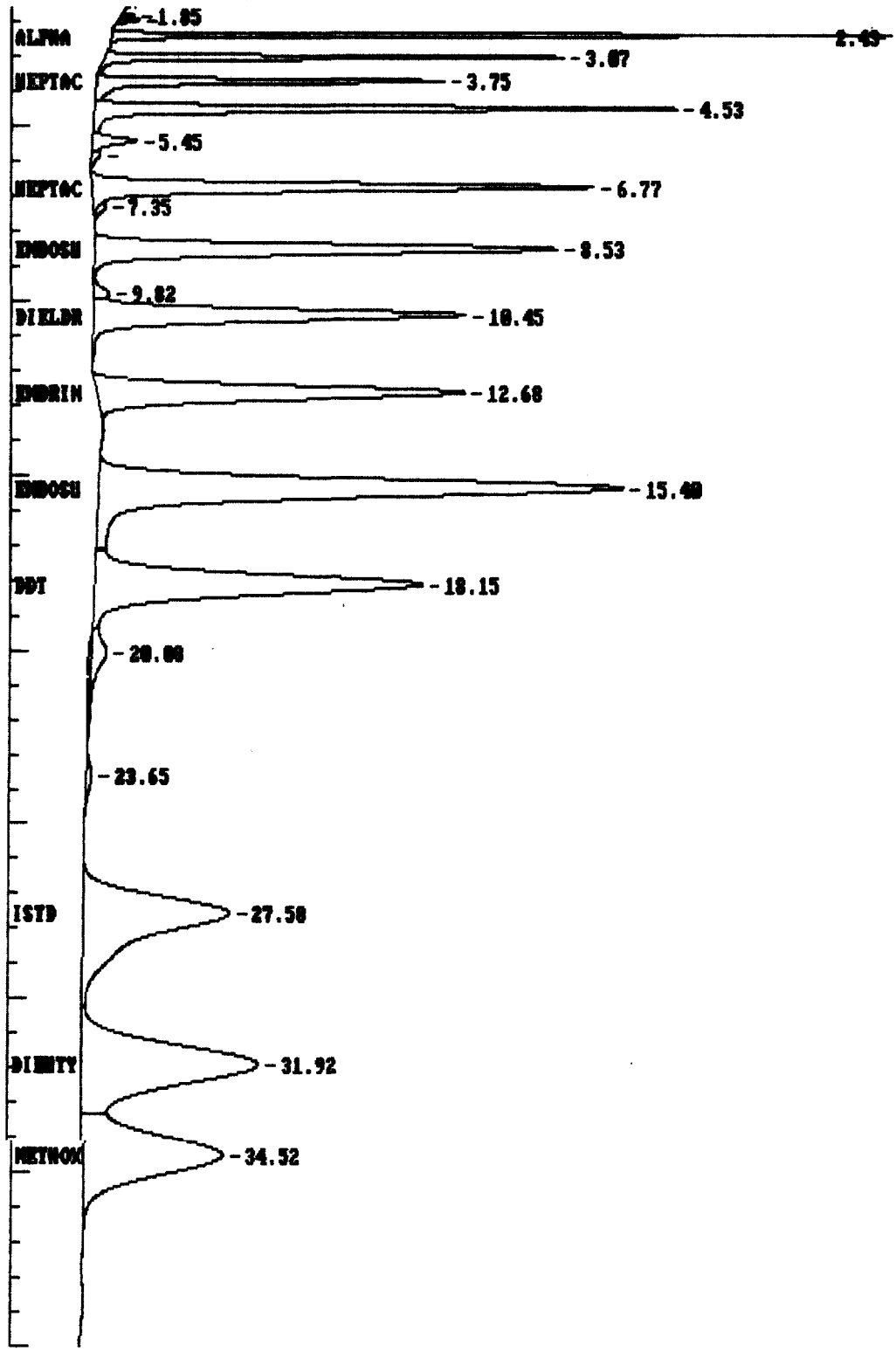


```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 11:22:48 Version 4.1 **********************
* Sample Name: STD A 3                          Data File: E:QP39          *
* Date: 03-20-1990 15:05:45 Method: K:1PESTA  03-21-1990 10:25:56  #  59  *
* Interface: 0   Cycle#:  39   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN             *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD QUANT            Detector 1:                 *
* Misc. Information: TREKKER                                PE PCBs       *
*************************************************************************
Starting Delay:    1.50                    Ending retention time:    45.00
Area reject:        0                      One sample per    1.000 sec.
Amount injected:        5.00               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	2.43	ALPHA BHC	0.0063	2.8289%	1921353	319660	6.0	1	3	19	0	3.2888E-09
4	3.07	LINDANE	0.0051	2.2847%	1422692	187703	7.6	1	4	19	0	3.5872E-09
5	3.75	HEPTACHLOR	0.0051	2.2923%	1436768	142325	10.1	2	5	19	0	3.5639E-09
6	4.53	ALDRIN	0.0103	4.6286%	2768166	238284	11.6	2	6	19	0	3.7351E-09
9	6.77	HEPTACHLOR EPOXIDE	0.0131	5.8750%	3427286	205571	16.7	3	9	19	0	3.8291E-09
11	8.53	ENDOSULFAN I	0.0153	6.8525%	3816829	189590	20.1	2	11	19	0	4.0104E-09
13	10.45	DIELDRIN	0.0154	6.8903%	3767488	152646	24.7	2	13	19	0	4.0854E-09
14	12.68	ENDRIN	0.0263	11.7829%	4245515	150688	28.2	1	14	19	0	6.1996E-09
15	15.40	ENDOSULFAN II	0.0289	12.9211%	8000907	214606	37.3	2	15	19	0	3.6075E-09
16	18.15	DDT	0.0279	12.4821%	5557620	134056	41.5	3	16	19	0	5.0170E-09
19	27.58	ISTD	1.0000	0.0000%	4746235	59932	79.2	2	19	19	0	2.1069E-07
20	31.92	DIBUTYLCHLOR	0.0313	13.9951%	5906029	72666	81.3	2	20	19	0	5.2932E-09
21	34.52	METHOXYCHLOR	0.0383	17.1664%	4583860	56652	80.9	2	21	19	0	8.3654E-09

TOTAL AMOUNT = 0.2234

Data File = E:QP39.PTS Printed on 03-21-1990 at 11:23:14
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 108611 uv High Value: 440527 uv Scale factor: 1.0



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

********** 03-21-1990 14:01:11 Version 4.1 **********

* Sample Name: STD A 4 Data File: E:QP26 *
* Date: 03-20-1990 06:10:15 Method: K:1PESTA 03-21-1990 10:25:56 # 59 *
* Interface: 0 Cycle#: 26 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER PE PCBs *

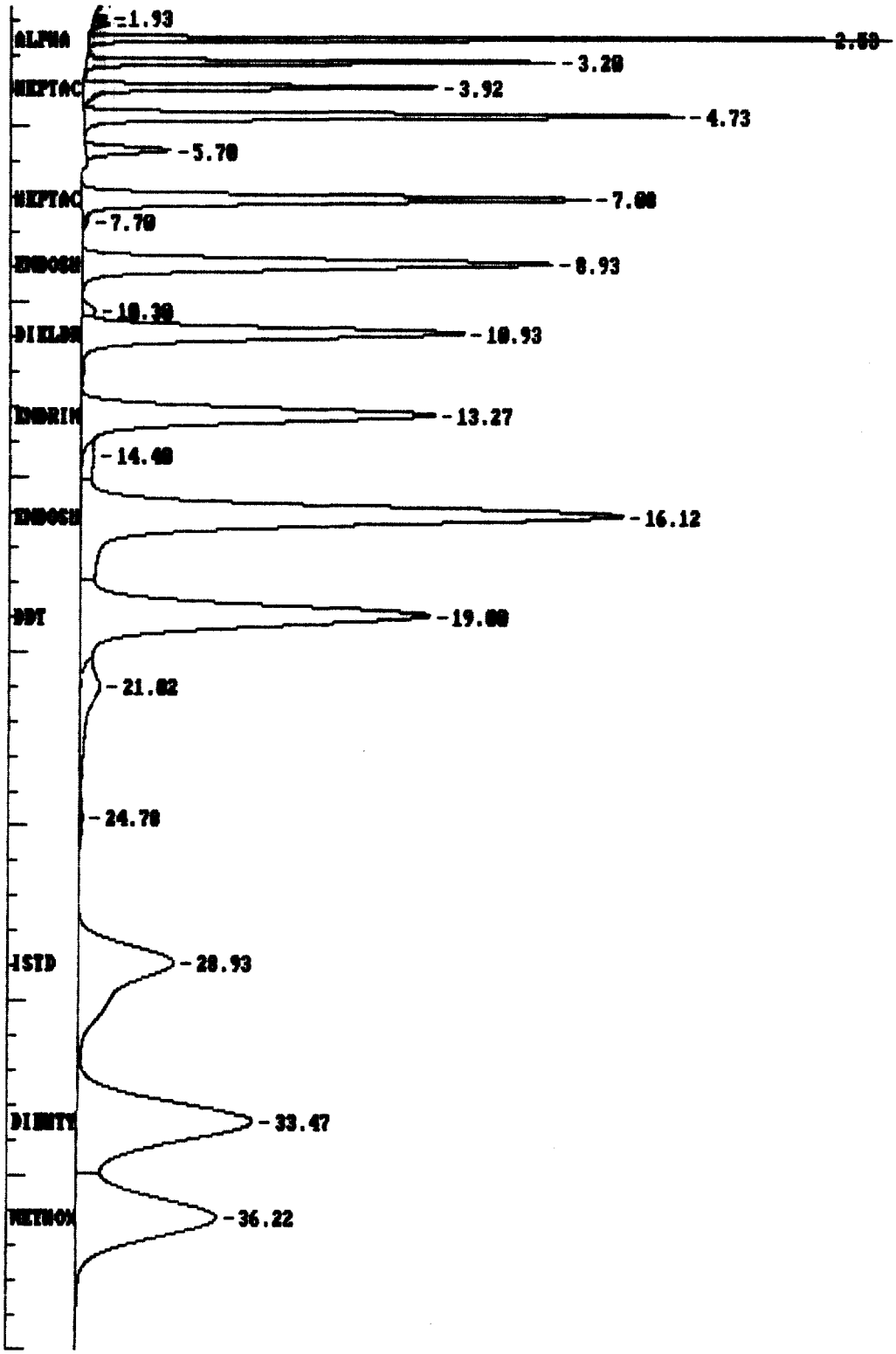
****

Starting Delay: 1.50 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 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	2.53	ALPHA BHC	0.0092	2.8041%	3168092	514018	6.2	1	3	19	0	2.8995E-09
4	3.20	LINDANE	0.0073	2.2326%	2261649	299994	7.5	1	4	19	0	3.2339E-09
5	3.92	HEPTACHLOR	0.0073	2.2241%	2234108	226220	9.9	2	5	19	0	3.2613E-09
6	4.73	ALDRIN	0.0145	4.4375%	4326476	383893	11.3	2	6	19	0	3.3600E-09
8	7.08	HEPTACHLOR EPOXIDE	0.0186	5.6724%	5360528	325325	16.5	3	8	19	0	3.4665E-09
10	8.93	ENDOSULFAN I	0.0220	6.7307%	6114145	301341	20.3	2	10	19	0	3.6063E-09
12	10.93	DIELDRIN	0.0220	6.7022%	6016720	244630	24.6	2	12	19	0	3.6492E-09
13	13.27	ENDRIN	0.0373	11.3875%	6776892	226289	29.9	3	13	19	0	5.5047E-09
15	16.12	ENDOSULFAN II	0.0447	13.6397%	13820720	346909	39.8	2	15	19	0	3.2330E-09
16	19.00	DDT	0.0443	13.5298%	10038388	223856	44.8	3	16	19	0	4.4153E-09
19	28.93	ISTD	1.0000	0.0000%	5350222	61071	87.6	2	19	19	0	1.8691E-07
20	33.47	DIBUTYLCHLOR	0.0447	13.6525%	9224360	112150	82.3	2	20	19	0	4.8485E-09
21	36.22	METHOXYCHLOR	0.0556	16.9868%	7447665	89594	83.1	2	21	19	0	7.4718E-09

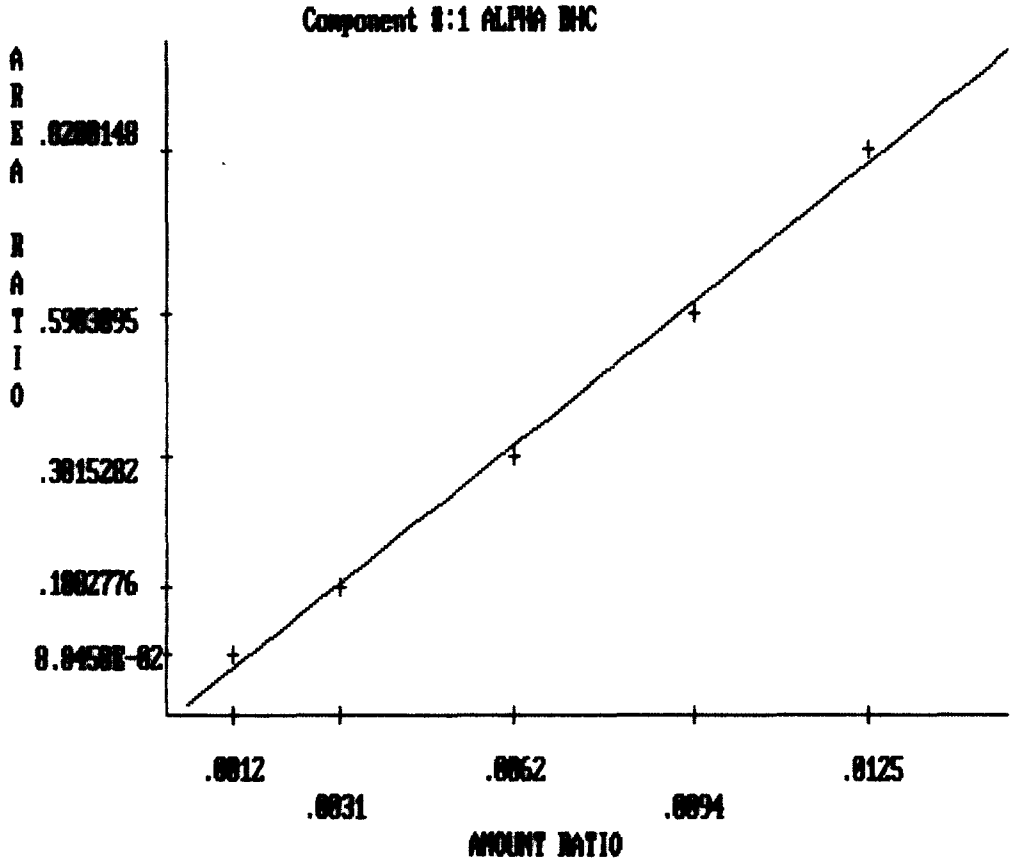
TOTAL AMOUNT = 0.3276

Data File = E:QP26.PTS Printed on 03-21-1990 at 14:01:35
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 104686 uv High Value: 624290 uv Scale factor: 1.0



ticide A Sample pes

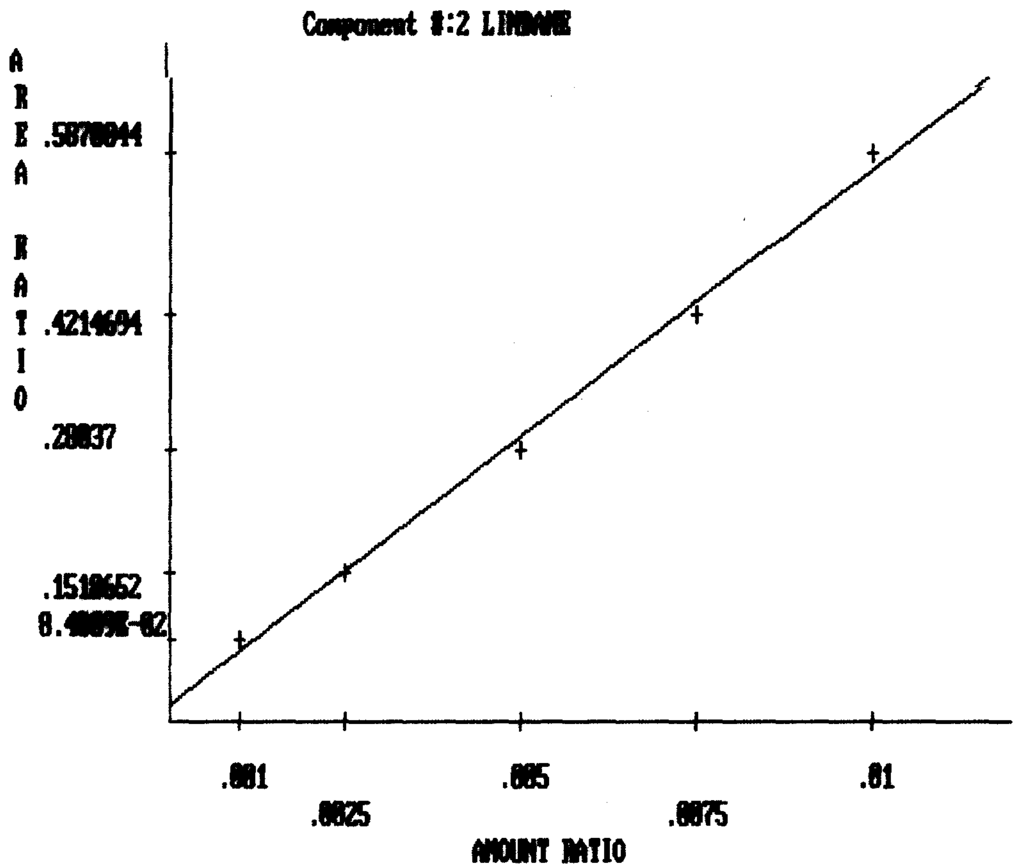
Operator JV,WF,PS
Run date 03-21-1990 10:25:56 version: 59
Printed on 03-21-1990 AT 14:44:04
Straight Line fit



Component 1 = ALPHA BHC
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0012	547601	0.0012	0.0885
2	0.0031	854839	0.0031	0.1883
3	0.0062	1916236	0.0062	0.3815
4	0.0094	3168092	0.0094	0.5904
5	0.0125	4255635	0.0125	0.8280

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 6.5341E+01 * Amt ratio + -8.0765E-03
Amt ratio = 1.5304E-02 * Area ratio + 1.2360E-04
Correlation Coefficient = 0.9966



Component 2 = LINDANE

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0010	525016	0.0010	0.0848
2	0.0025	689515	0.0025	0.1519
3	0.0050	1408166	0.0050	0.2804
4	0.0075	2261649	0.0075	0.4215
5	0.0100	3017358	0.0100	0.5871

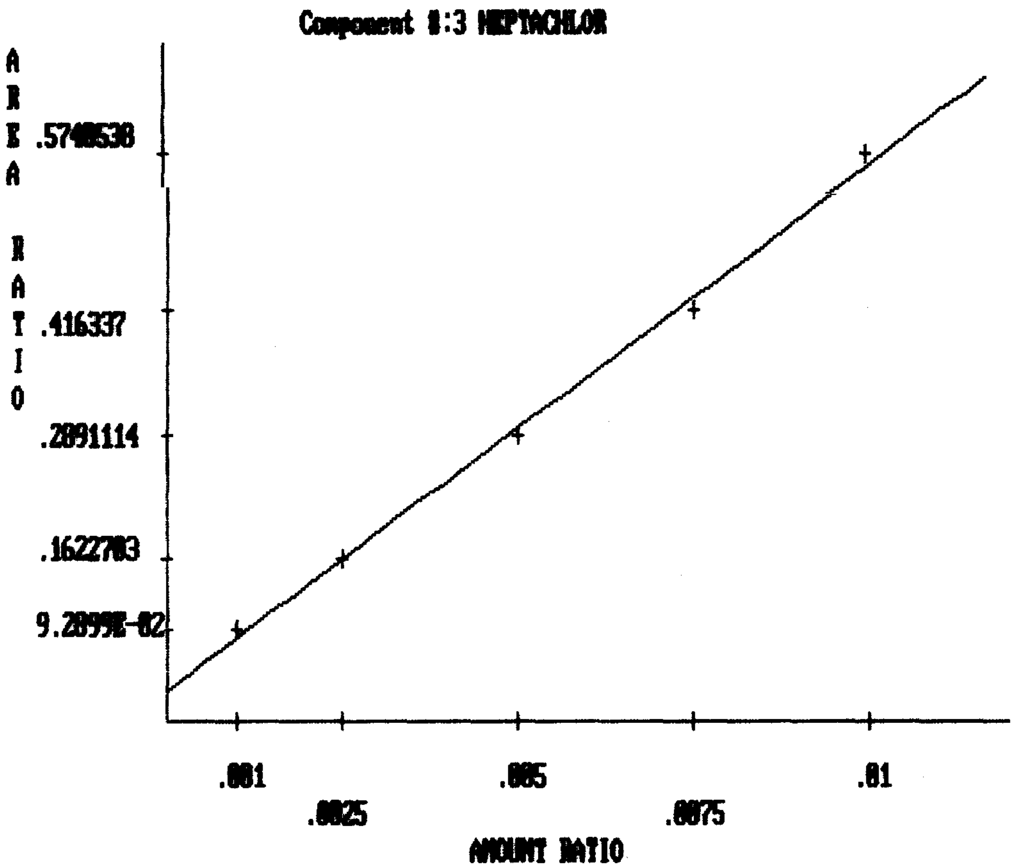
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 5.5630E+01 * Amt ratio + 1.5844E-02

Amt ratio = 1.7976E-02 * Area ratio + -2.8482E-04

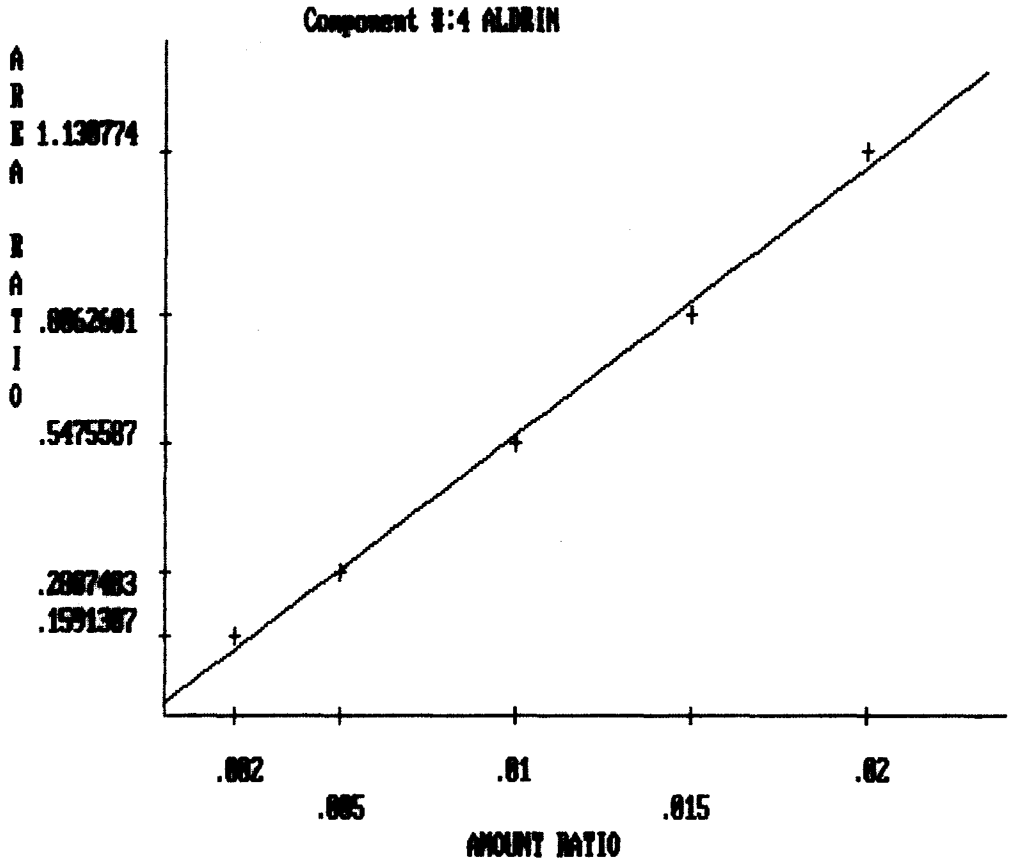
Correlation Coefficient = 0.9956



Component 3 = HEPTACHLOR
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0010	575095	0.0010	0.0929
2	0.0025	736758	0.0025	0.1623
3	0.0050	1452070	0.0050	0.2891
4	0.0075	2234108	0.0075	0.4163
5	0.0100	2950386	0.0100	0.5741

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 5.3038E+01 * Amt ratio + 3.1139E-02
Amt ratio = 1.8855E-02 * Area ratio + -5.8711E-04
Correlation Coefficient = 0.9970



Component 4 = ALDRIN

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0020	985099	0.0020	0.1591
2	0.0050	1311007	0.0050	0.2887
3	0.0100	2750129	0.0100	0.5476
4	0.0150	4326476	0.0150	0.8063
5	0.0200	5811684	0.0200	1.1308

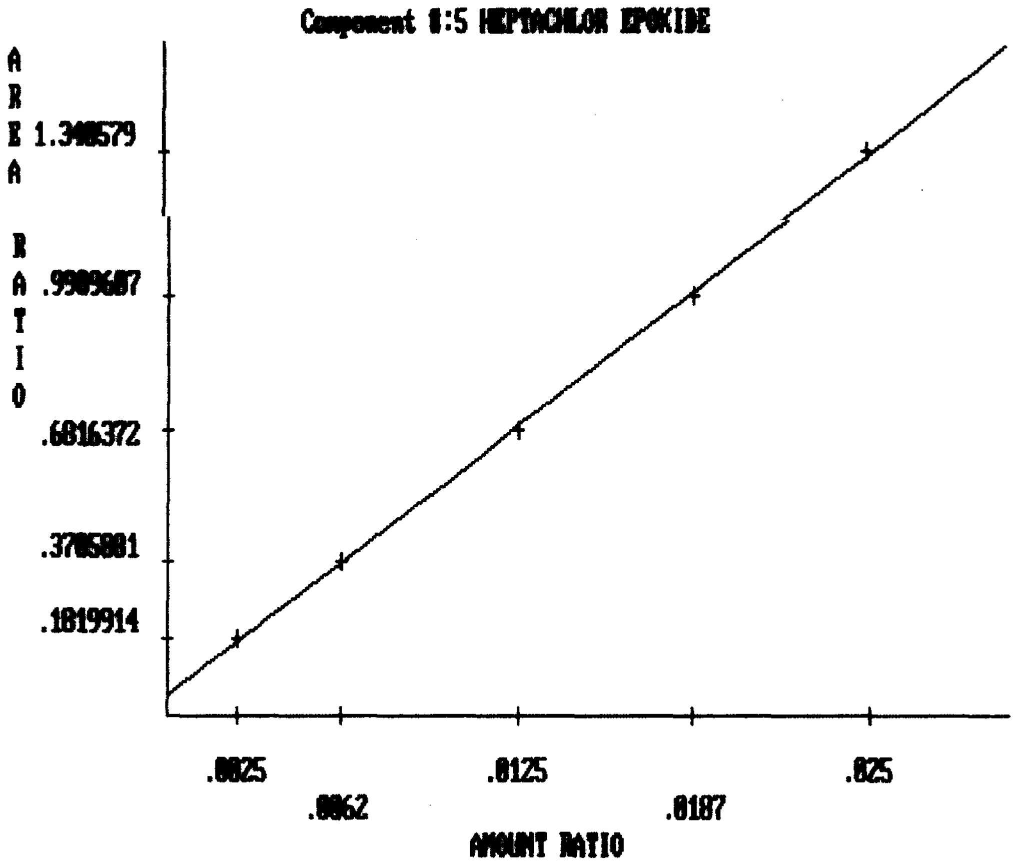
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 5.3702E+01 * Amt ratio + 2.7994E-02

Amt ratio = 1.8621E-02 * Area ratio + -5.2128E-04

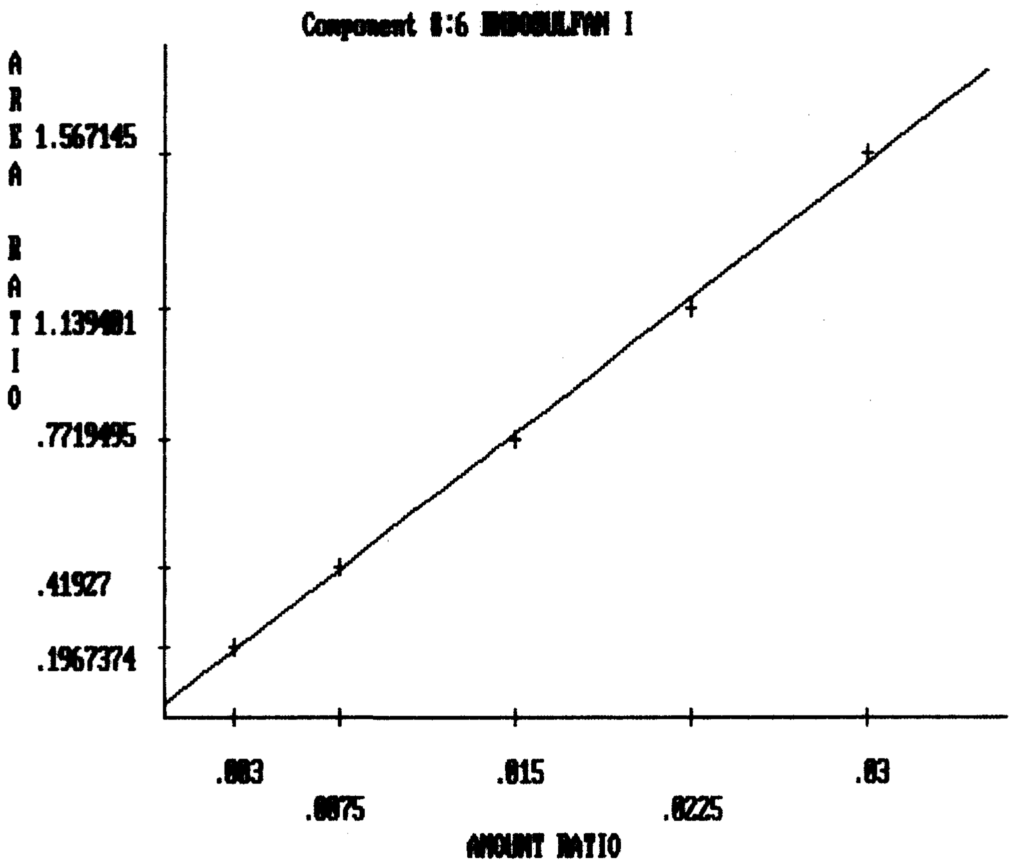
Correlation Coefficient = 0.9960



Component 5 = HEPTACHLOR EPOXIDE
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0025	1126618	0.0025	0.1820
2	0.0062	1682585	0.0062	0.3706
3	0.0125	3423542	0.0125	0.6816
4	0.0187	5360528	0.0187	0.9990
5	0.0250	6889992	0.0250	1.3406

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 5.1259E+01 * Amt ratio + 4.9416E-02
Amt ratio = 1.9509E-02 * Area ratio + -9.6405E-04
Correlation Coefficient = 0.9997



Component 6 = ENDOSULFAN I

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0030	1217903	0.0030	0.1967
2	0.0075	1903616	0.0075	0.4193
3	0.0150	3877138	0.0150	0.7719
4	0.0225	6114145	0.0225	1.1394
5	0.0300	8054441	0.0300	1.5671

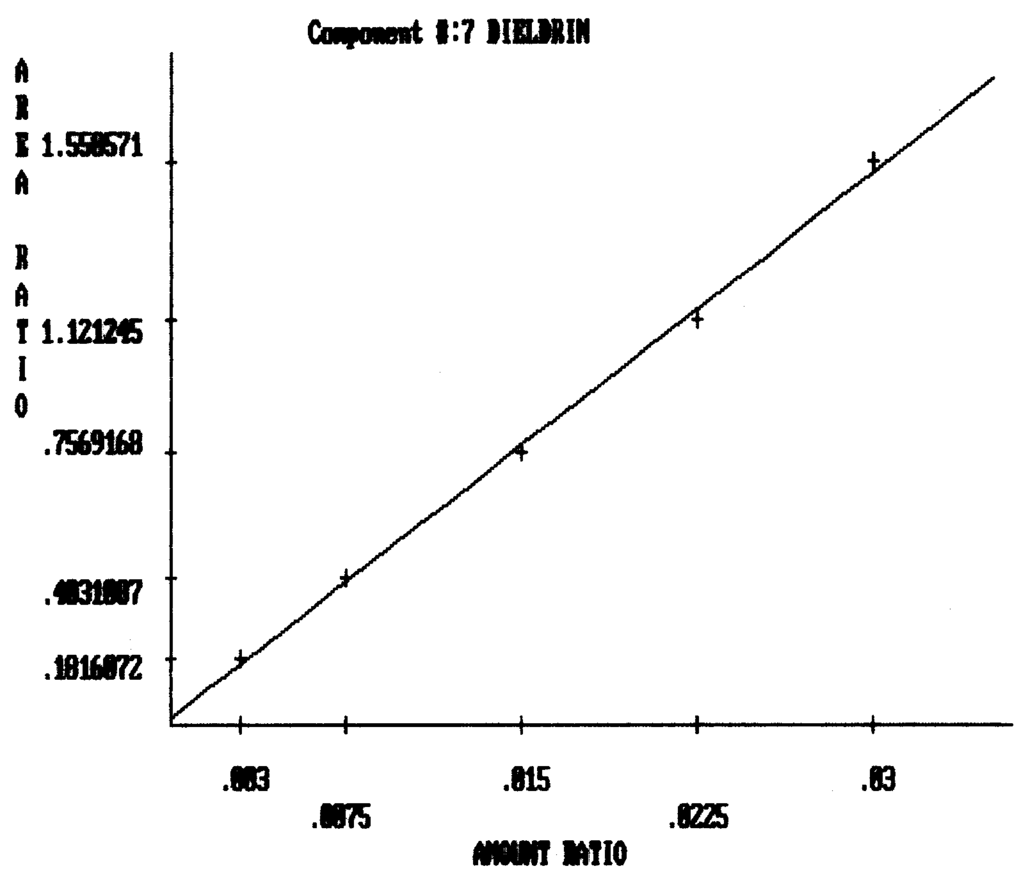
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 5.0220E+01 * Amt ratio + 3.5466E-02

Amt ratio = 1.9912E-02 * Area ratio + -7.0621E-04

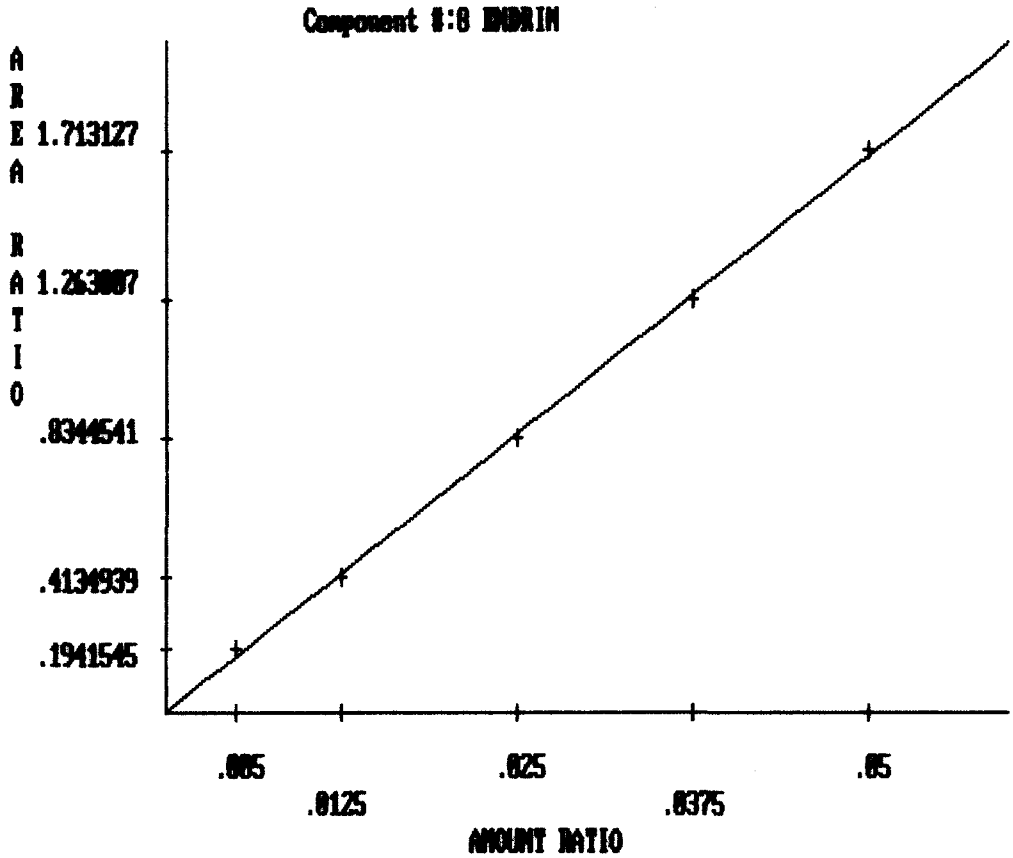
Correlation Coefficient = 0.9986



Component 7 = DIELDRIN
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0030	1124240	0.0030	0.1816
2	0.0075	1830239	0.0075	0.4031
3	0.0150	3801636	0.0150	0.7569
4	0.0225	6016720	0.0225	1.1212
5	0.0300	8010374	0.0300	1.5586

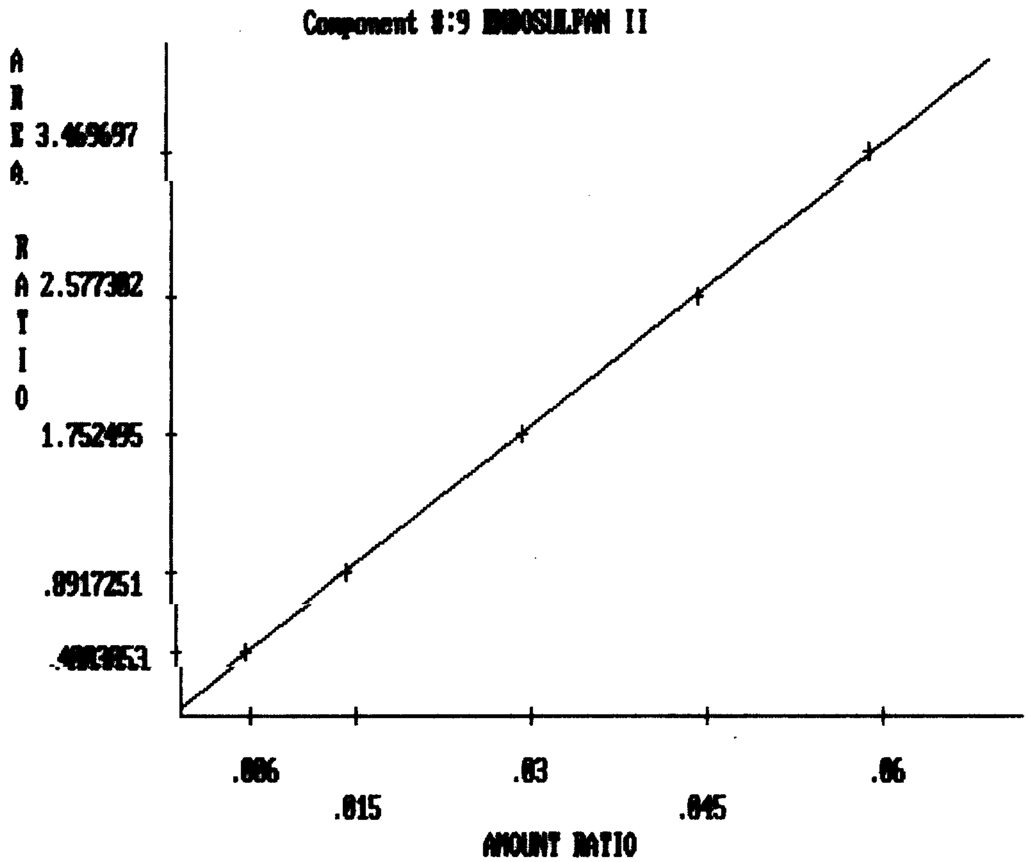
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 5.0391E+01 * Amt ratio + 1.8195E-02
Amt ratio = 1.9845E-02 * Area ratio + -3.6107E-04
Correlation Coefficient = 0.9981



Component 8 = ENDRIN
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0050	1201914	0.0050	0.1942
2	0.0125	1877391	0.0125	0.4135
3	0.0250	4191069	0.0250	0.8345
4	0.0375	6777427	0.0375	1.2630
5	0.0500	8804728	0.0500	1.7131

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.3881E+01 * Amt ratio + 2.7543E-03
Amt ratio = 2.9515E-02 * Area ratio + -8.1295E-05
Correlation Coefficient = 0.9992



Component 9 = ENDOSULFAN II

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0060	2478586	0.0060	0.4004
2	0.0150	4048709	0.0150	0.8917
3	0.0300	8801956	0.0300	1.7525
4	0.0450	13830070	0.0450	2.5773
5	0.0600	17832730	0.0600	3.4697

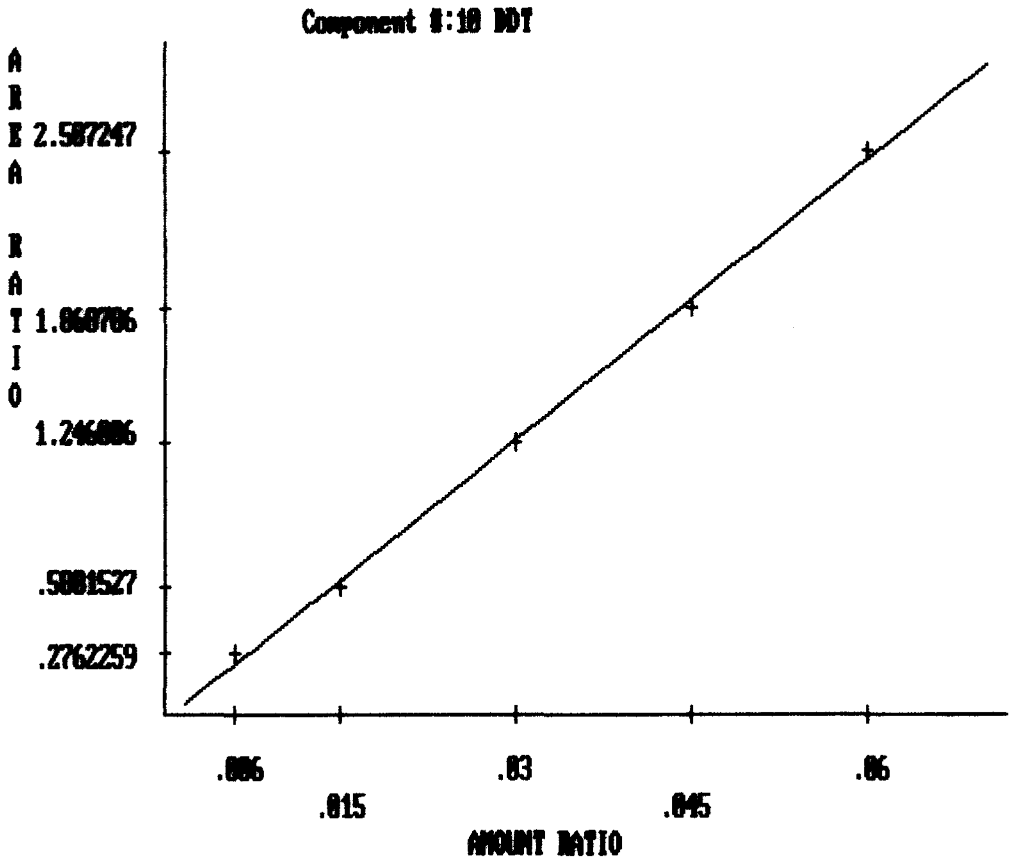
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 5.6731E+01 * Amt ratio + 4.8315E-02

Amt ratio = 1.7627E-02 * Area ratio + -8.5164E-04

Correlation Coefficient = 0.9998



Component 10 = DDT

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0060	1709977	0.0060	0.2762
2	0.0150	2670396	0.0150	0.5882
3	0.0300	6258100	0.0300	1.2460
4	0.0450	10028100	0.0450	1.8688
5	0.0600	13297320	0.0600	2.5872

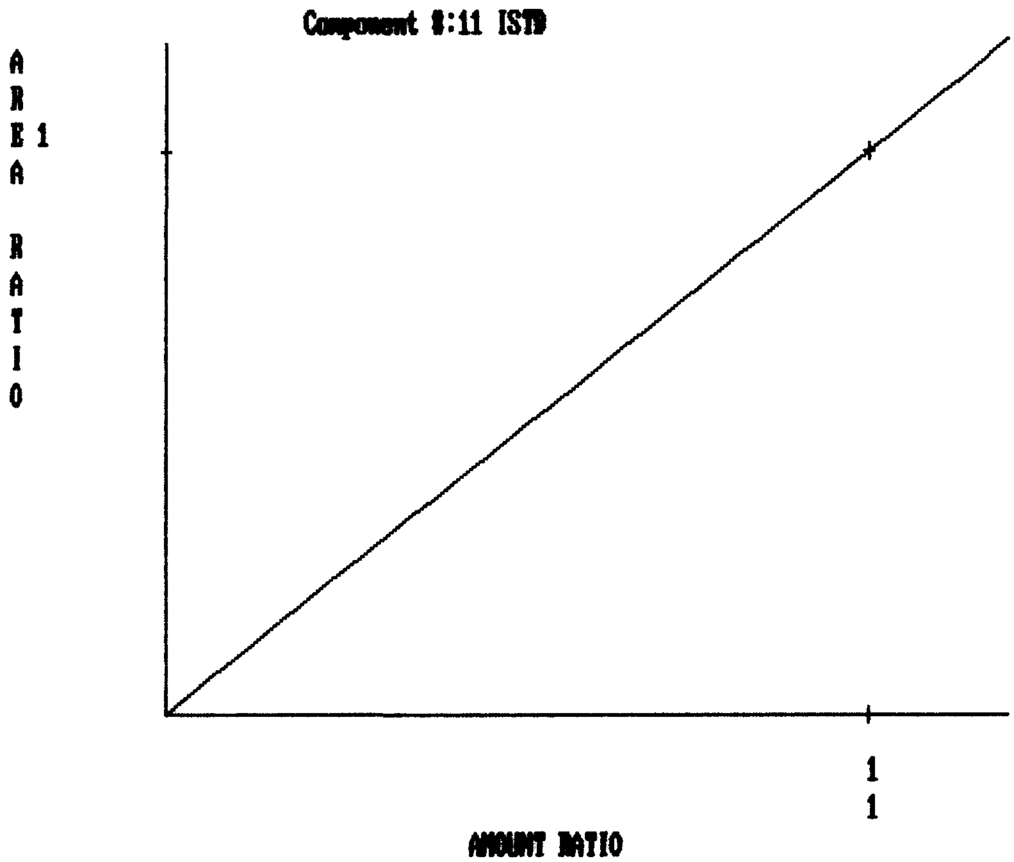
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 4.2901E+01 * Amt ratio + -2.5217E-02

Amt ratio = 2.3310E-02 * Area ratio + 5.8780E-04

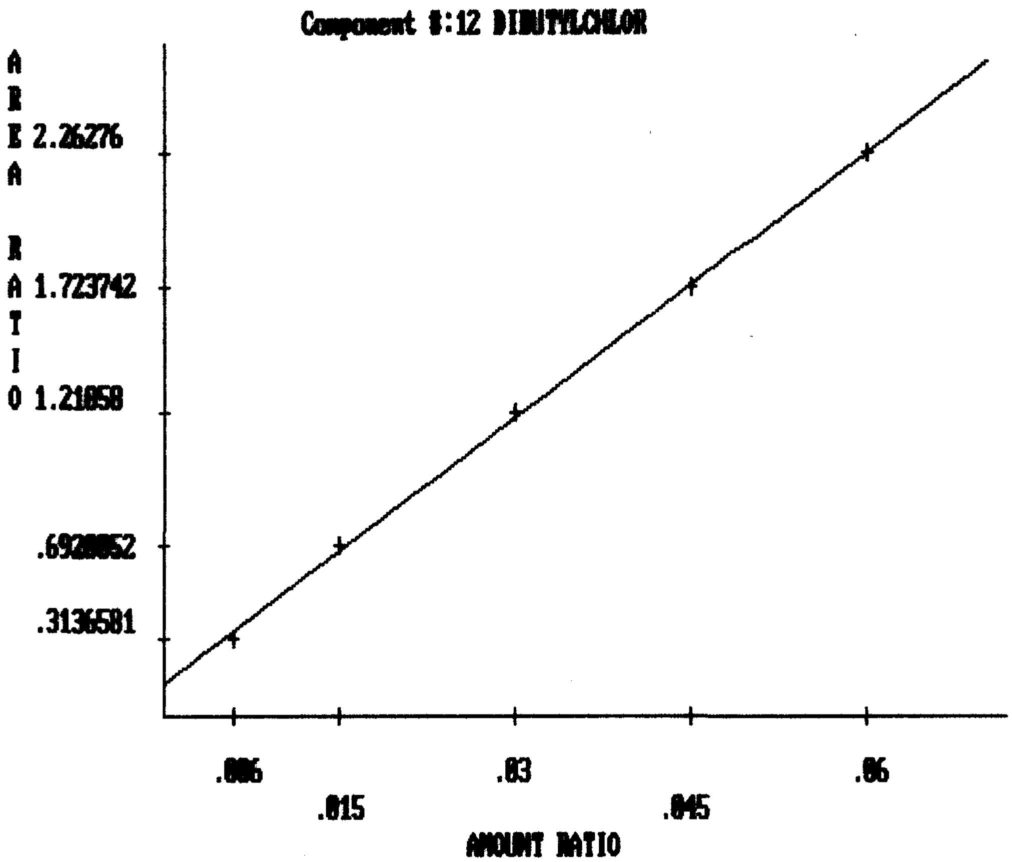
Correlation Coefficient = 0.9983



Component 11 = ISTD
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	1.0000	6190502	1.0000	1.0000
2	1.0000	4540311	1.0000	1.0000
3	1.0000	5022528	1.0000	1.0000
4	1.0000	5366105	1.0000	1.0000
5	1.0000	5139564	1.0000	1.0000

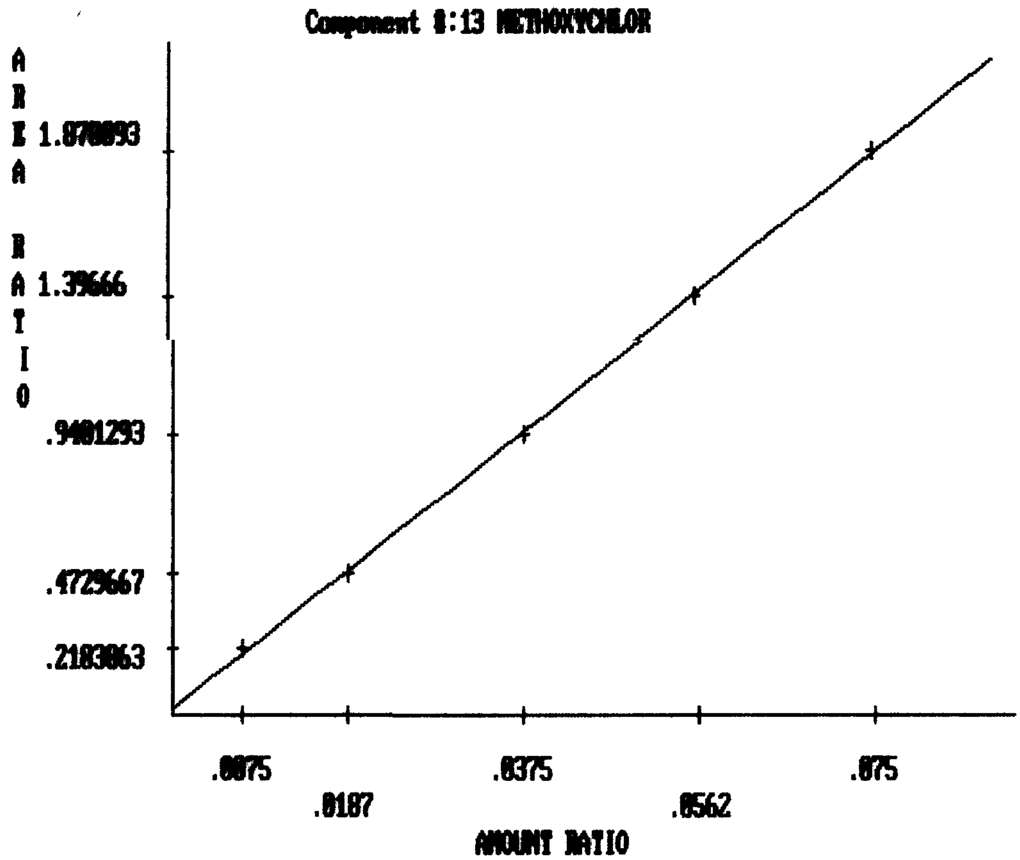
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 1.0000E+00 * Amt ratio + 0.0000E+00
Amt ratio = 1.0000E+00 * Area ratio + 0.0000E+00
Correlation Coefficient = 0.0000



Component 12 = DIBUTYLCHLOR
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0060	1941701	0.0060	0.3137
2	0.0150	3141919	0.0150	0.6920
3	0.0300	6120351	0.0300	1.2186
4	0.0450	9249780	0.0450	1.7237
5	0.0600	11629600	0.0600	2.2628

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.5636E+01 * Amt ratio + 1.3031E-01
Amt ratio = 2.8062E-02 * Area ratio + -3.6567E-03
Correlation Coefficient = 0.9991



Component 13 = METHOXYCHLOR

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0075	1351921	0.0075	0.2184
2	0.0187	2147416	0.0187	0.4730
3	0.0375	4721826	0.0375	0.9401
4	0.0562	7494623	0.0562	1.3967
5	0.0750	9656690	0.0750	1.8789

Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 2.4636E+01 * Amt ratio + 2.1083E-02

Amt ratio = 4.0590E-02 * Area ratio + -8.5577E-04

Correlation Coefficient = 0.9998

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

****

INITIAL AND CONTINUING CALIBRATION FORM

DATA SET: SF 7035 DATE: 3/21/90 GC # 2

COLUMN TYPE MIXED PHASE FILE NAME QP

VERSION: 32 STANDARD NA NAME: B 3

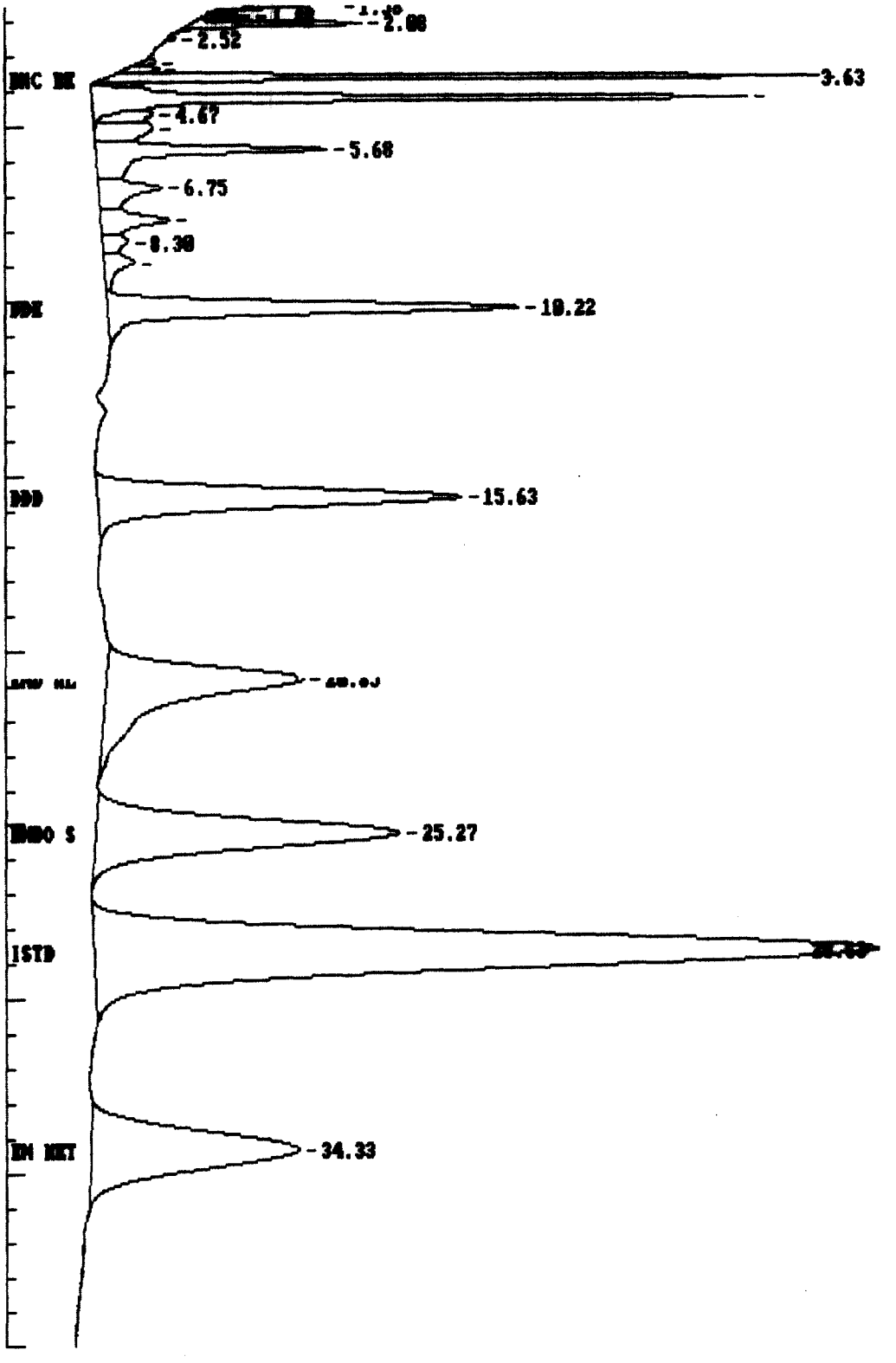
	INITIAL QP30	CONT QP40	%	INITIAL	CONTIN.	%
COMPOUND	AREA	AREA	RPD	RT	RT	RPD
BETA BHC	1948090	1897537	3	3.58	3.48	3
DELTA BHC	2183608	2264083	-4	4.17	4.05	3
DDE	3481537	3486238	-0	10.08	9.80	3
DDD	4689365	4728847	-1	15.43	15.00	3
END ALD	4233138	4252221	-0	20.62	20.02	3
ENDO SO4	6467948	6684522	-3	24.98	24.27	3
ISTD	4198448	4164737	1	28.32	27.50	3
EN KETONE	5669008	5626360	1	33.98	33.02	3

```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 13:28:16 Version 4.1 ********************
* Sample Name: STD B 1                          Data File: E:QP28        *
* Date: 03-20-1990 07:32:37 Method: K:1PESTB  03-21-1990 12:44:36  #  32  *
* Interface: 0   Cycle#:  28   Operator DDF Channel#: 0    Vial#: N.A.   *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000          *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                  *
*            Detector 0: ECD QUANT           Detector 1:                 *
* Misc. Information: TREKKER                          PE PCBs            *
*************************************************************************
Starting Delay:    1.50                    Ending retention time:   45.00
Area reject:        0                      One sample per   1.000 sec.
Amount injected:       5.00                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	3.63	BHC BETA	0.0026	7.2926%	470910	53692	8.8	2	7	20	0	5.5147E-09
8	4.22	BHC DELTA	0.0028	7.9580%	642770	49243	13.1	3	8	20	0	4.4088E-09
16	10.22	DDE	0.0033	9.3031%	758444	30834	24.6	2	16	20	0	4.3680E-09
17	15.63	DDD	0.0057	15.8977%	1028705	27359	37.6	1	17	20	0	5.5032E-09
18	20.85	END ALDEHYDE	0.0050	13.9954%	981799	14809	66.3	1	18	20	0	5.0762E-09
19	25.27	ENDO SULFATE	0.0089	24.9529%	1327019	22848	58.1	1	19	20	0	6.6960E-09
20	28.63	ISTD	1.0000	0.0000%	4021092	58969	68.2	1	20	20	0	2.4869E-07
21	34.33	EN KETONE	0.0073	20.6003%	1169285	15652	74.7	1	21	20	0	6.2738E-09

TOTAL AMOUNT = 0.0356

Data File = E:QP28.PTS Printed on 03-21-1990 at 13:28:36
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 100019 uv High Value: 160423 uv Scale factor: 1.0

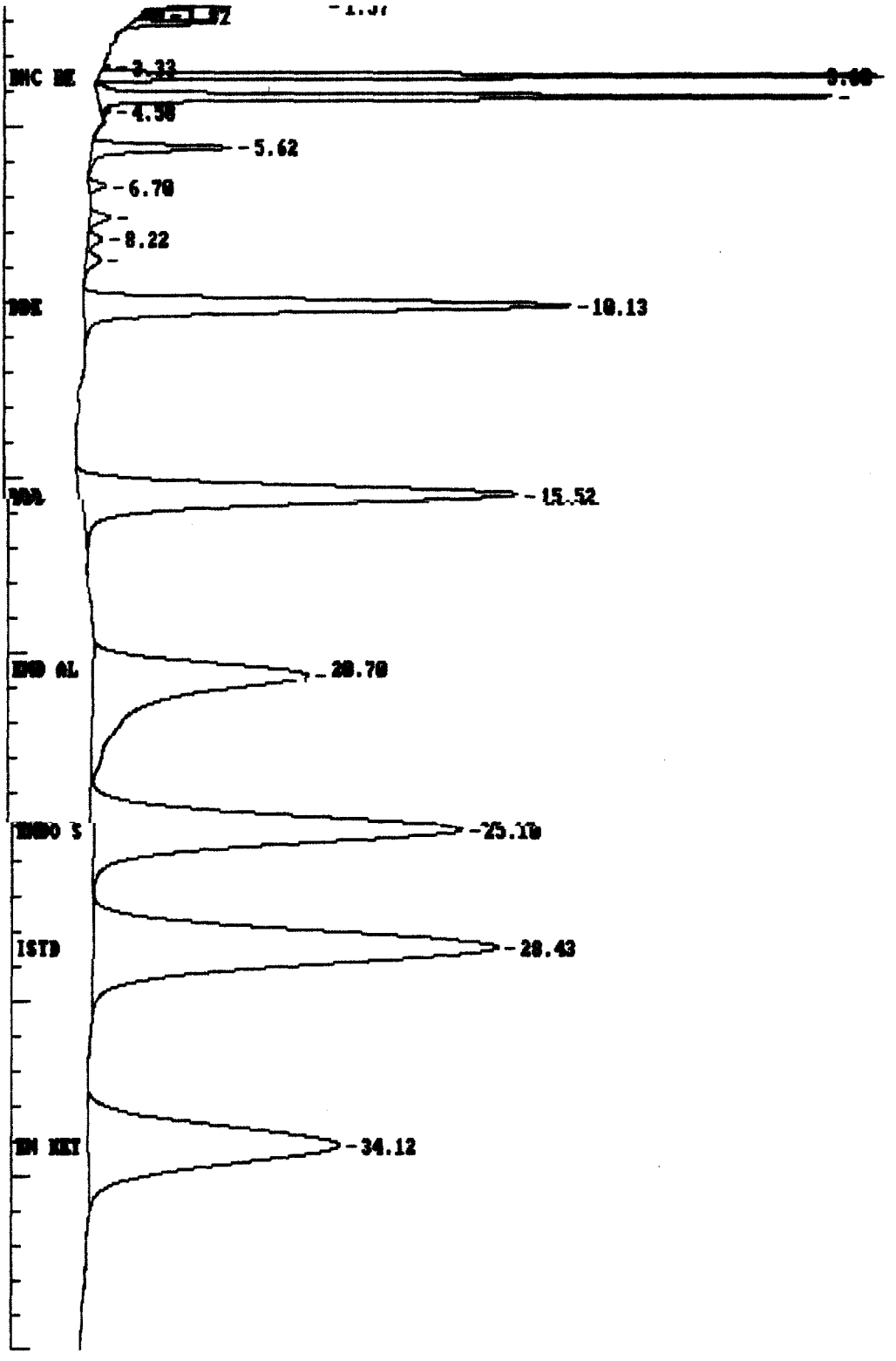


```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 13:29:40 Version 4.1 **********************
* Sample Name: STD B 2                          Data File: E:QP29         *
* Date: 03-20-1990 08:13:49 Method: K:1PESTB  03-21-1990 12:44:36  #  32  *
* Interface: 0   Cycle#:  29   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*             Detector 0: ECD QUANT           Detector 1:                 *
* Misc. Information: TREKKER                            PE PCBs           *
*************************************************************************
Starting Delay:    1.50                    Ending retention time:    45.00
Area reject:        0                      One sample per   1.000 sec.
Amount injected:       5.00                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	3.60	BHC BETA	0.0062	7.5054%	1013867	120069	8.4	2	5	17	0	6.1074E-09
6	4.18	BHC DELTA	0.0047	5.6673%	1108778	111916	9.9	3	6	17	0	4.2169E-09
13	10.13	DDE	0.0075	9.0777%	1754722	74303	23.6	1	13	17	0	4.2681E-09
14	15.52	DDD	0.0127	15.3989%	2463947	67151	36.7	1	14	17	0	5.1561E-09
15	20.70	END ALDEHYDE	0.0118	14.2883%	2198418	33025	66.6	2	15	17	0	5.3621E-09
16	25.10	ENDO SULFATE	0.0197	23.8199%	3232913	56266	57.5	2	16	17	0	6.0787E-09
17	28.43	ISTD	1.0000	0.0000%	4206083	61949	67.9	1	17	17	0	2.3775E-07
18	34.12	EN KETONE	0.0200	24.2426%	2914391	38411	75.9	1	18	17	0	6.8627E-09

TOTAL AMOUNT = 0.0825

Data File = E:QP29.PTS Printed on 03-21-1990 at 13:29:59
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 100285 uv High Value: 224040 uv Scale factor: 1.0

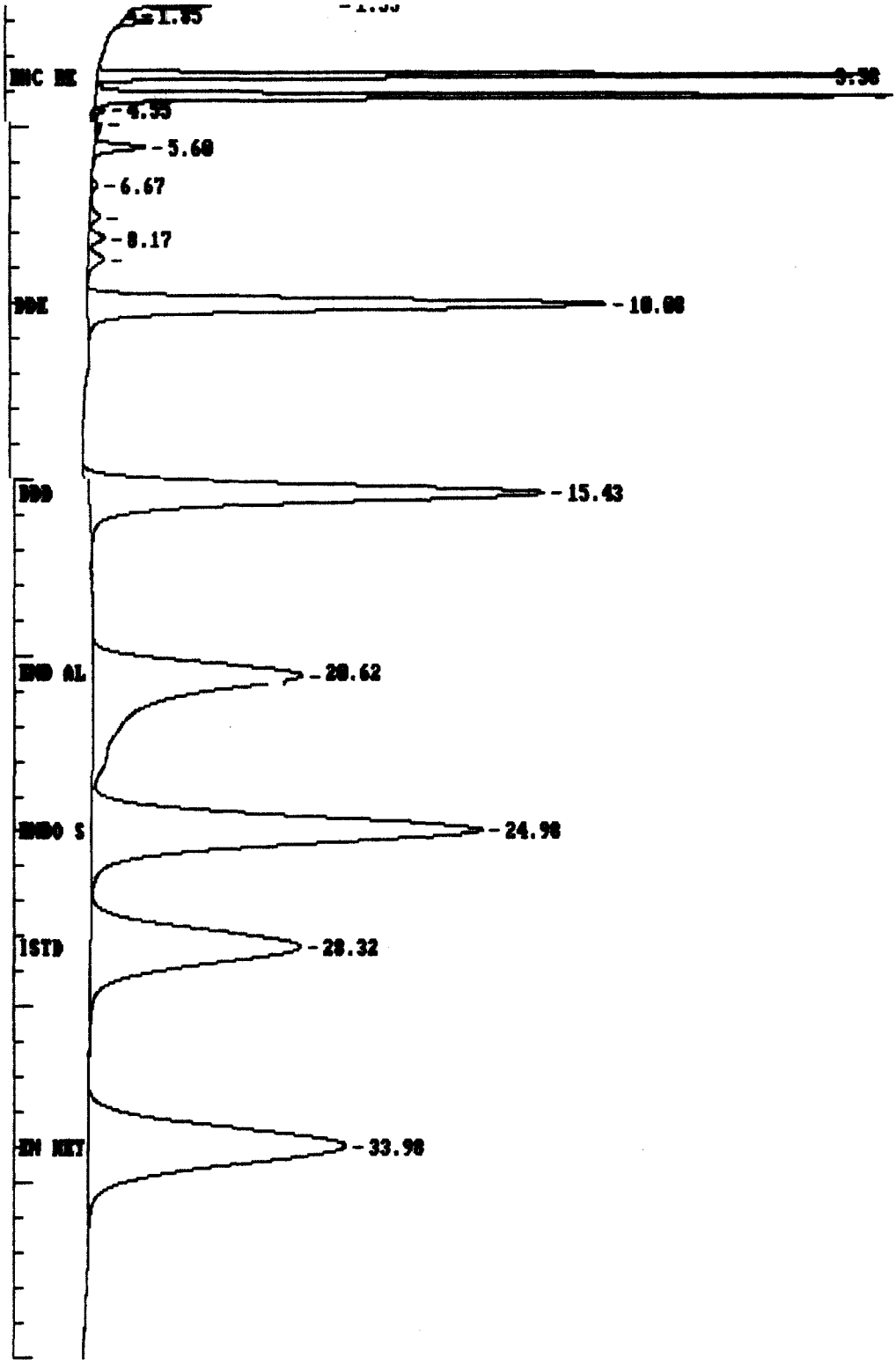


```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 13:31:01 Version 4.1 **********************
* Sample Name: STD B 3                          Data File: E:QP30          *
* Date: 03-20-1990 08:55:00 Method: K:1PESTB  03-21-1990 12:44:36  #  32  *
* Interface: 0   Cycle#:  30   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*             Detector 0: ECD QUANT           Detector 1:                 *
* Misc. Information: TREKKER                              PE PCBs         *
*************************************************************************
Starting Delay:    1.50                    Ending retention time:    45.00
Area reject:        0                      One sample per    1.000 sec.
Amount injected:        5.00               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	3.58	BHC BETA	0.0127	7.7238%	1948090	228669	8.5	2	4	17	0	6.4984E-09
5	4.17	BHC DELTA	0.0092	5.6302%	2183608	233558	9.3	3	5	17	0	4.2260E-09
13	10.08	DDE	0.0150	9.1630%	3481537	151668	23.0	1	13	17	0	4.3137E-09
14	15.43	DDD	0.0240	14.6677%	4687345	133213	35.2	1	14	17	0	5.1266E-09
15	20.62	END ALDEHYDE	0.0237	14.4302%	4233138	61567	68.8	2	15	17	0	5.5872E-09
16	24.98	ENDO SULFATE	0.0386	23.5503%	6467948	114581	56.4	2	16	17	0	5.9678E-09
17	28.32	ISTD	1.0000	0.0000%	4198448	61350	68.4	2	17	17	0	2.3818E-07
18	33.98	EN KETONE	0.0407	24.8348%	5669008	75337	75.2	1	18	17	0	7.1802E-09

TOTAL AMOUNT = 0.1639

Data File = E:QP30.PTS Printed on 03-21-1990 at 13:31:20
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 101181 uv High Value: 340653 uv Scale factor: 1.0

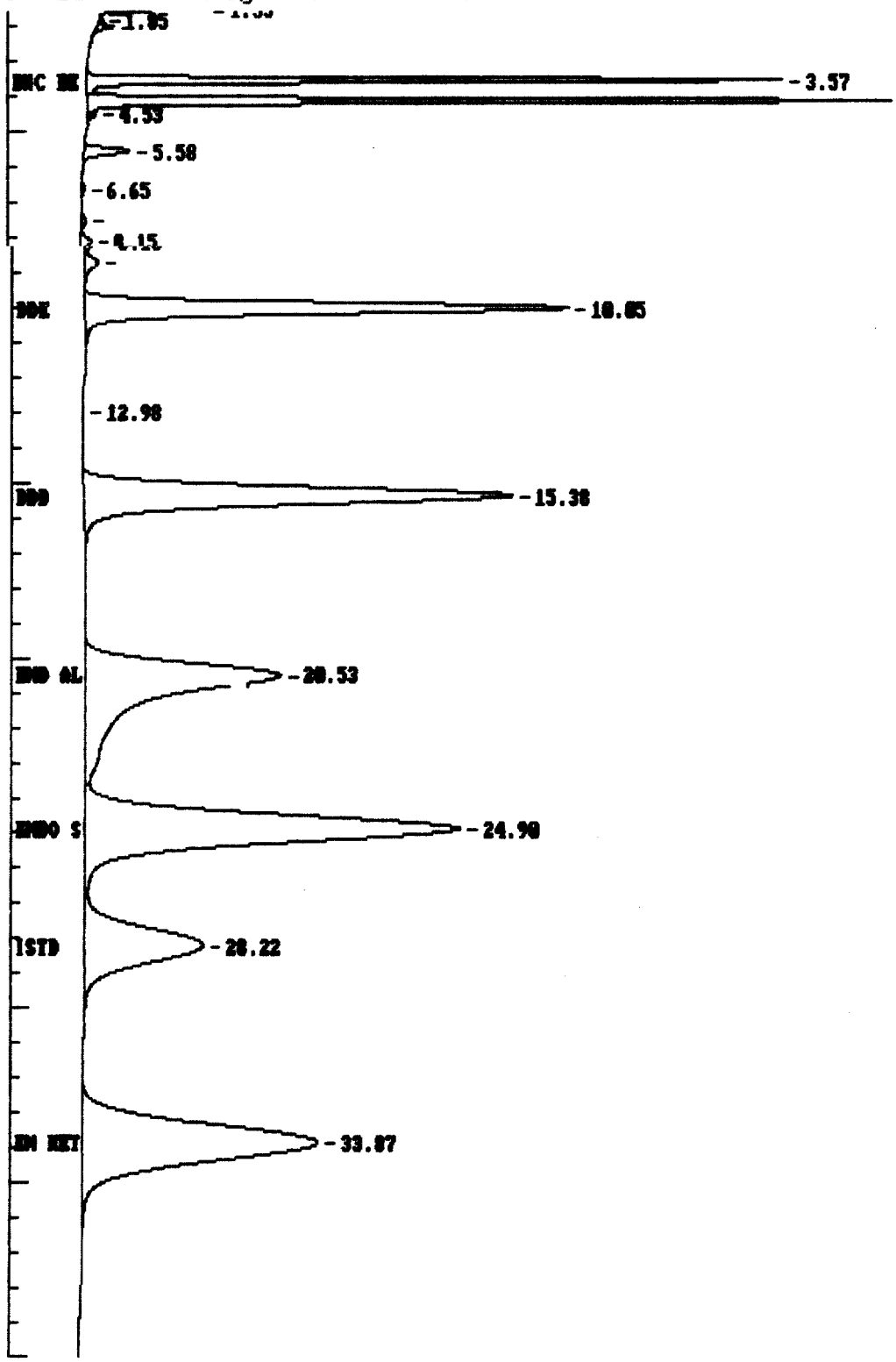


```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 13:32:20 Version 4.1 **********************
* Sample Name: STD B 4                          Data File: E:QP31          *
* Date: 03-20-1990 09:48:06 Method: K:1PESTB  03-21-1990 12:44:36  #  32  *
* Interface: 0   Cycle#:  31   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
***************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information: TREKKER                          PE PCBs             *
***************************************************************************
Starting Delay:    1.50                    Ending retention time:    45.00
Area reject:         0                     One sample per    1.000 sec.
Amount injected:        5.00               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	3.57	BHC BETA	0.0203	7.6618%	2982224	342095	8.7	2	4	17	0	6.8184E-09
5	4.15	BHC DELTA	0.0162	6.0887%	3727283	396134	9.4	3	5	17	0	4.3354E-09
12	10.05	DDE	0.0239	9.0091%	5386089	237872	22.6	1	12	17	0	4.4392E-09
14	15.38	DDD	0.0385	14.4980%	7340307	211215	34.8	1	14	17	0	5.2419E-09
15	20.53	END ALDEHYDE	0.0388	14.6066%	6659268	96474	69.0	2	15	17	0	5.8212E-09
16	24.90	ENDO SULFATE	0.0633	23.8619%	10429637	184826	56.4	2	16	17	0	6.0720E-09
17	28.22	ISTD	1.0000	0.0000%	4093197	58668	69.8	2	17	17	0	2.4431E-07
18	33.87	EN KETONE	0.0644	24.2740%	8609261	115908	74.3	1	18	17	0	7.4829E-09

TOTAL AMOUNT = 0.2654

Data File = E:QP31.PTS Printed on 03-21-1990 at 13:32:39
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 101587 uv High Value: 502532 uv Scale factor: 1.0



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

********** 03-21-1990 13:33:37 Version 4.1 **********

* Sample Name: STD B 5 Data File: E:QP32 *
* Date: 03-20-1990 11:06:11 Method: K:1PESTB 03-21-1990 12:44:36 # 32 *
* Interface: 0 Cycle#: 32 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER PE PCBs *

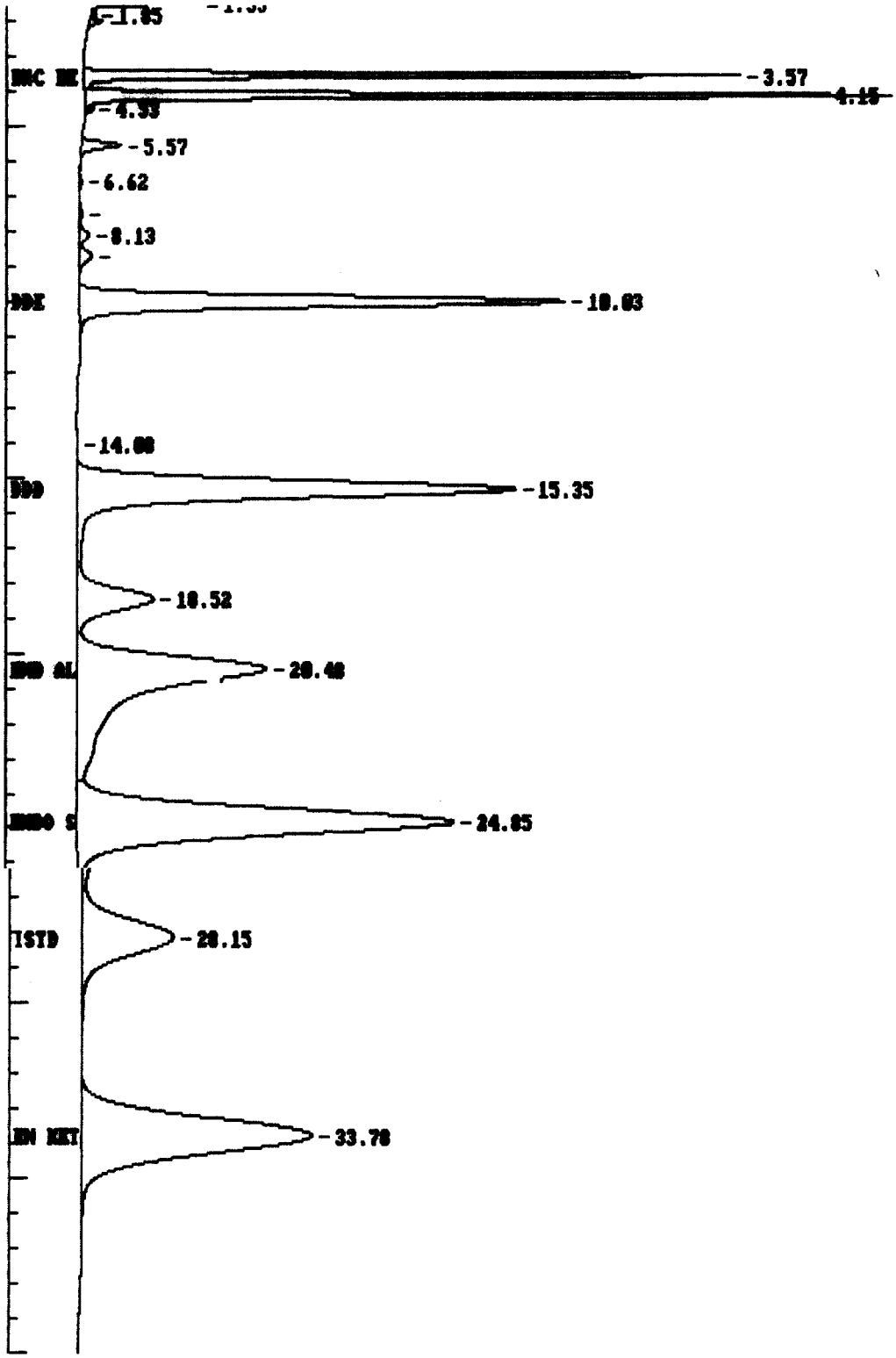
****

Starting Delay: 1.50 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 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	AREA/ HEIGHT	HEIGHT BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
4	3.57	BHC BETA	0.0254	7.4276%	3955467	447097	8.8 2	4	18	0	6.4316E-09
5	4.15	BHC DELTA	0.0209	6.0899%	5139412	550253	9.3 3	5	18	0	4.0585E-09
12	10.03	DDE	0.0309	9.0332%	7436037	330235	22.5 1	12	18	0	4.1607E-09
14	15.35	DDD	0.0520	15.1772%	10608242	298818	35.5 2	14	18	0	4.9002E-09
16	20.48	END ALDEHYDE	0.0502	14.6575%	9161025	128565	71.3 2	16	18	0	5.4801E-09
17	24.85	ENDO SULFATE	0.0817	23.8513%	14413017	256317	56.2 2	17	18	0	5.6679E-09
18	28.15	ISTD	1.0000	0.0000%	4372636	61978	70.6 2	18	18	0	2.2870E-07
19	33.78	EN KETONE	0.0814	23.7633%	11552802	156746	73.7 1	19	18	0	7.0451E-09

TOTAL AMOUNT = 0.3425

Data File = E:QP32.PTS Printed on 03-21-1990 at 13:33:57
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 101759 uv High Value: 657153 uv Scale factor: 1.0



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

********** 03-21-1990 13:02:13 Version 4.1 **********

* Sample Name: STD B 3 Data File: E:QP40 *
* Date: 03-20-1990 15:46:58 Method: K:1PESTB 03-21-1990 12:44:36 # 32 *
* Interface: 0 Cycle#: 40 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER PE PCBs *

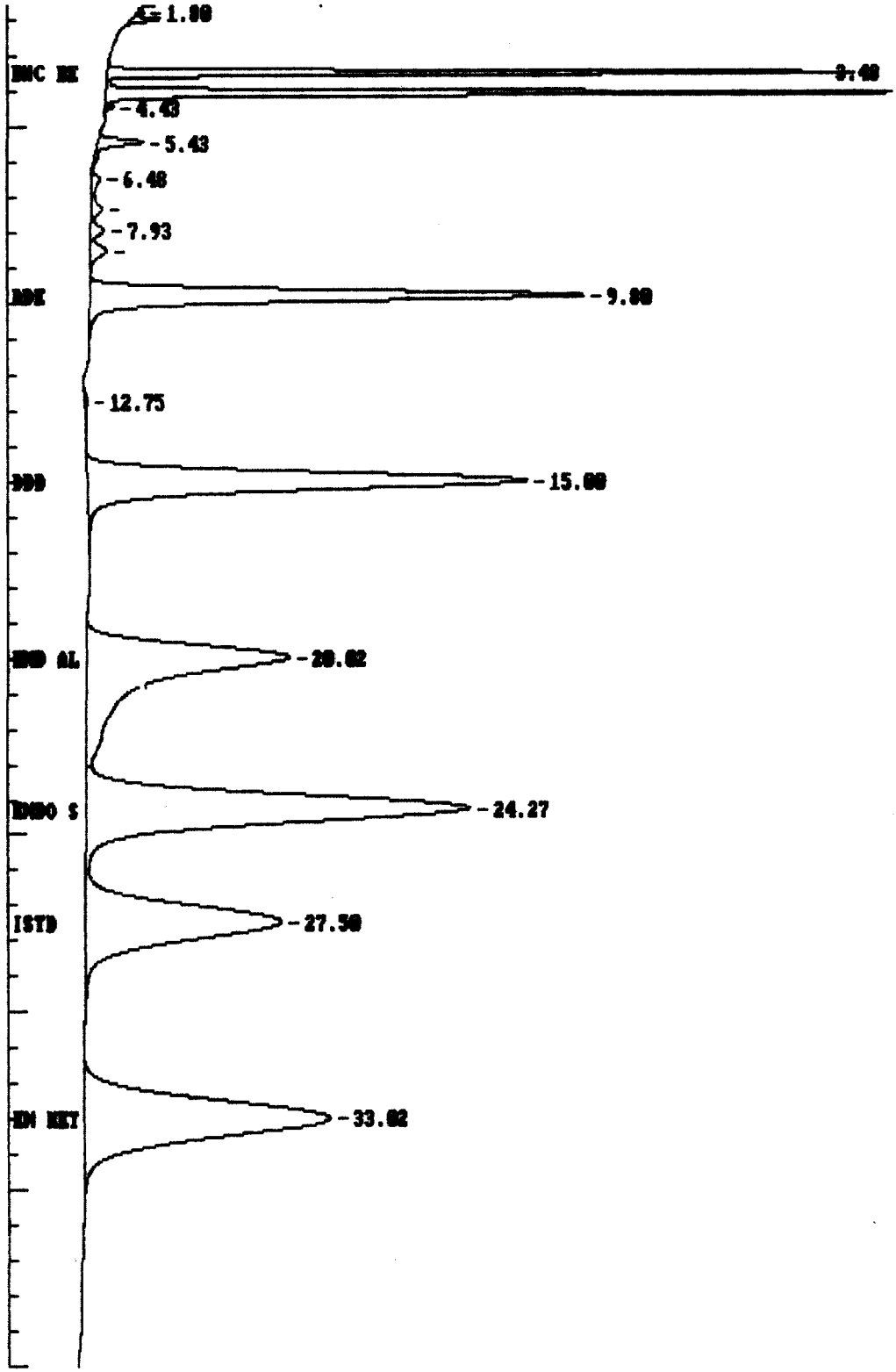
****

Starting Delay: 1.50 Ending retention time: 45.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 Dilution factor: 1.00
Internal Standard Amount: 1
Sample Weight: 1.000000

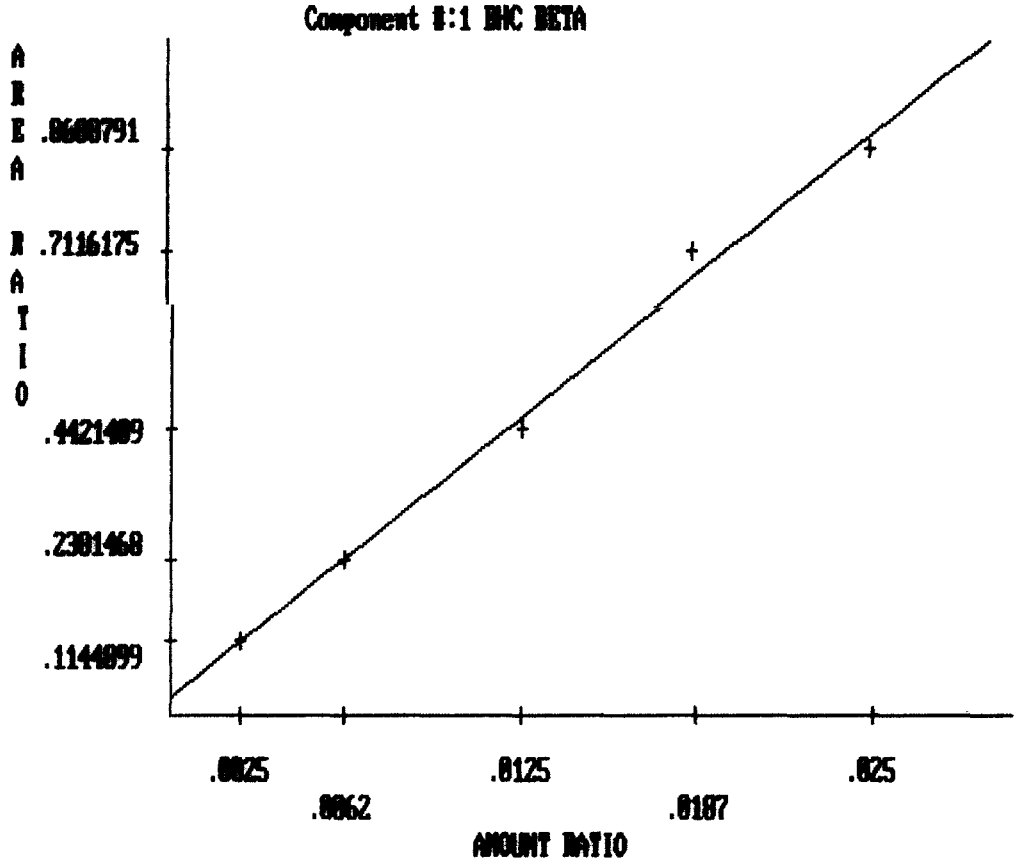
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in UG/L	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	INT.STD PEAK	% DELTA RET TIME	CONC/AREA
3	3.48	BHC BETA	0.0124	7.4559%	1897537	226679	8.4	2	3	16	0	6.5433E-09
4	4.05	BHC DELTA	0.0096	5.7921%	2264083	244198	9.3	3	4	16	0	4.2603E-09
11	9.80	DDE	0.0152	9.1044%	3486238	153126	22.8	1	11	16	0	4.3490E-09
13	15.00	DDD	0.0244	14.6736%	4728847	136492	34.6	1	13	16	0	5.1674E-09
14	20.02	END ALDEHYDE	0.0240	14.3893%	4252221	62971	67.5	2	14	16	0	5.6353E-09
15	24.27	ENDO SULFATE	0.0402	24.1288%	6684522	119350	56.0	2	15	16	0	6.0112E-09
16	27.50	ISTD	1.0000	0.0000%	4164737	60956	68.3	2	16	16	0	2.4011E-07
17	33.02	EN KETONE	0.0407	24.4558%	5626360	76407	73.6	1	17	16	0	7.2385E-09

TOTAL AMOUNT = 0.1665

Data File = E:QP40.PTS Printed on 03-21-1990 at 13:02:33
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 106128 uv High Value: 359144 uv Scale factor: 1.0



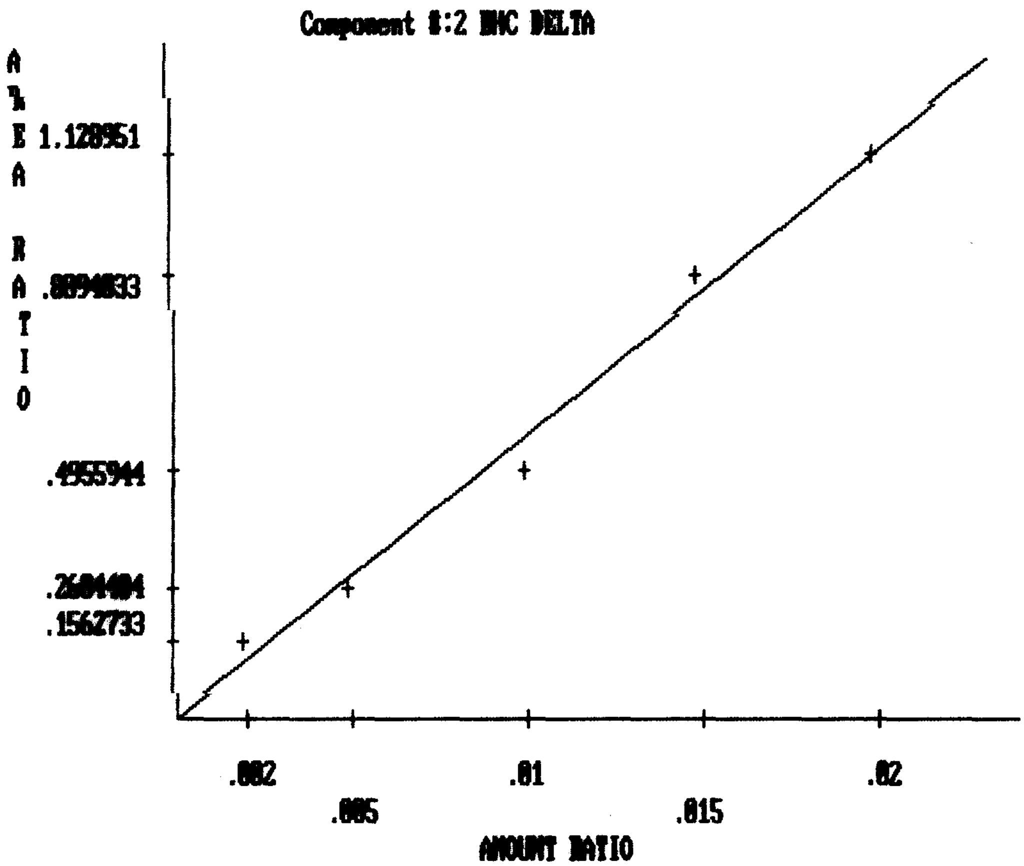
Method K:1PESTB
Sample PESTICIDE B
Operator WF,JV,PS
Run date 03-21-1990 12:44:36 version: 32
Printed on 03-22-1990 AT 08:58:40
Straight Line fit



Component 1 = BHC BETA
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0025	470910	0.0025	0.1145
2	0.0062	1013867	0.0062	0.2381
3	0.0125	1948090	0.0125	0.4421
4	0.0187	2982224	0.0187	0.7116
5	0.0250	3955467	0.0250	0.8689

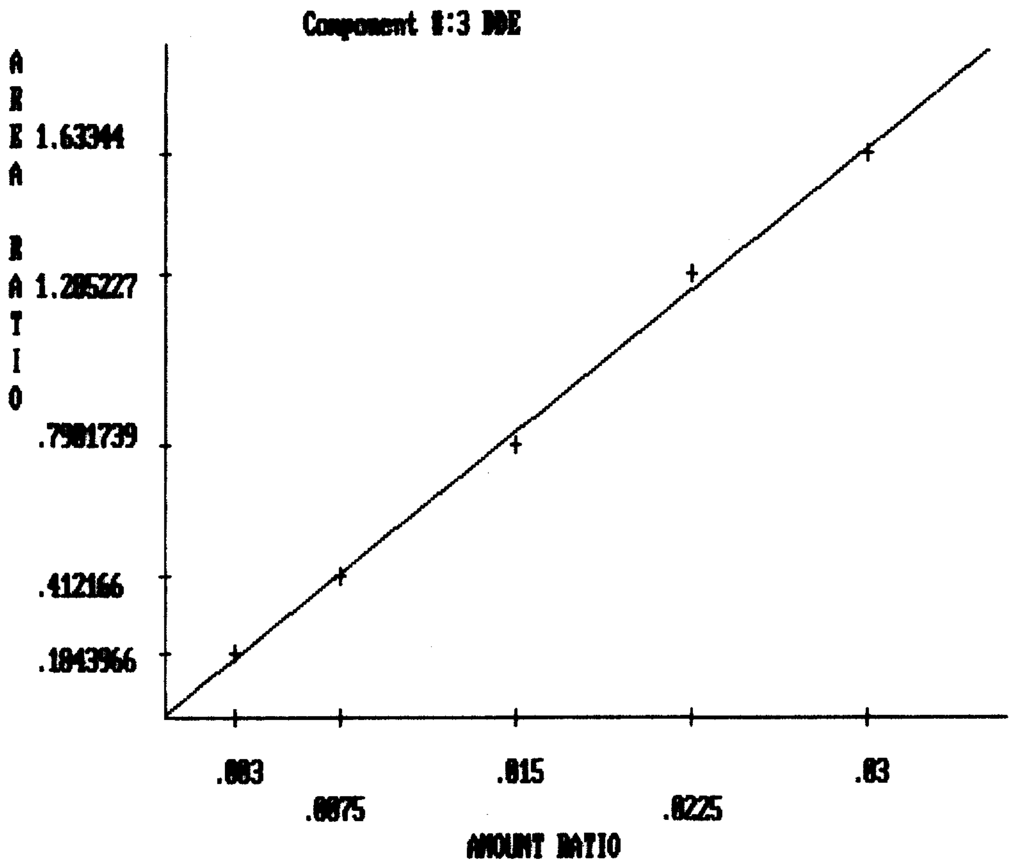
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 3.4474E+01 * Amt ratio + 2.7584E-02
Amt ratio = 2.9007E-02 * Area ratio + -8.0014E-04
Correlation Coefficient = 0.9943



Component 2 = BHC DELTA
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0020	642770	0.0020	0.1563
2	0.0050	1108778	0.0050	0.2604
3	0.0100	2183608	0.0100	0.4956
4	0.0150	3727283	0.0150	0.8894
5	0.0200	5139412	0.0200	1.1290

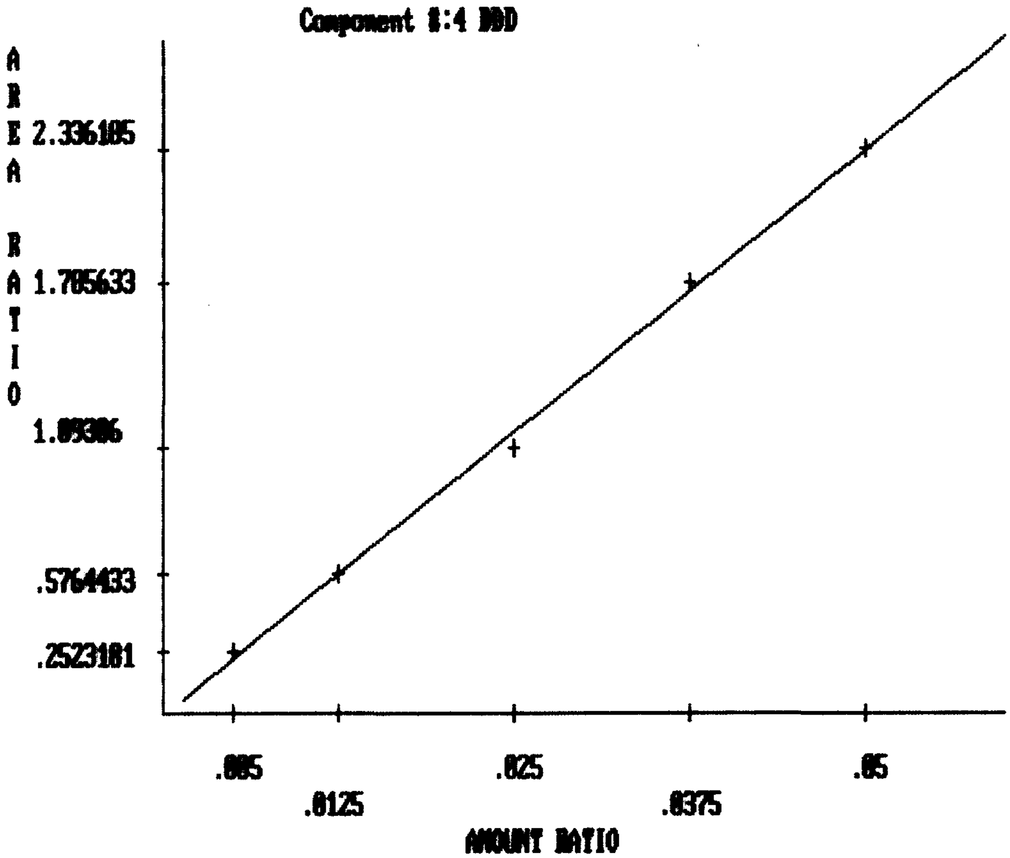
Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 5.6341E+01 * Amt ratio + 1.8750E-04
Amt ratio = 1.7749E-02 * Area ratio + -3.3280E-06
Correlation Coefficient = 0.9870



Component 3 = DDE
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0030	758444	0.0030	0.1844
2	0.0075	1754722	0.0075	0.4122
3	0.0150	3481537	0.0150	0.7902
4	0.0225	5386089	0.0225	1.2852
5	0.0300	7436037	0.0300	1.6334

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 5.4729E+01 * Amt ratio + 7.3065E-03
Amt ratio = 1.8272E-02 * Area ratio + -1.3350E-04
Correlation Coefficient = 0.9972



Component 4 = DDD

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0050	1037813	0.0050	0.2523
2	0.0125	2454103	0.0125	0.5764
3	0.0250	4816067	0.0250	1.0931
4	0.0375	7483175	0.0375	1.7856
5	0.0500	10635200	0.0500	2.3362

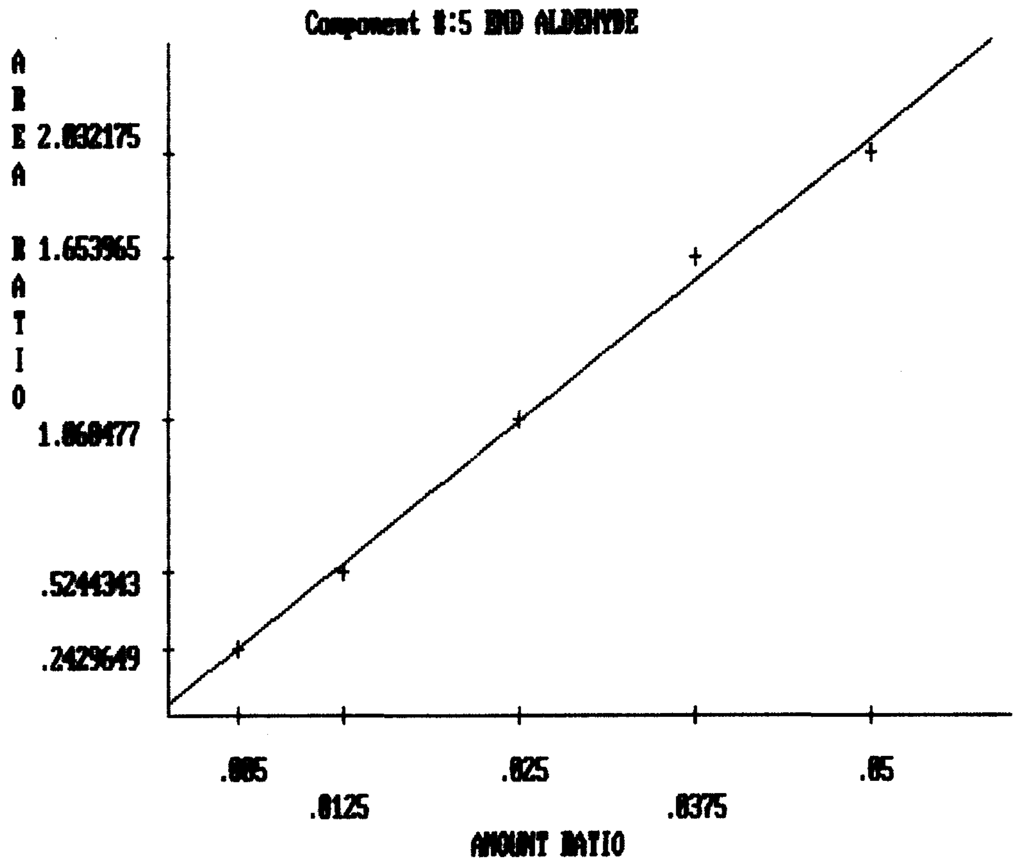
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 4.6851E+01 * Amt ratio + -9.4085E-03

Amt ratio = 2.1344E-02 * Area ratio + 2.0082E-04

Correlation Coefficient = 0.9976



Component 5 = END ALDEHYDE

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0050	999342	0.0050	0.2430
2	0.0125	2232684	0.0125	0.5244
3	0.0250	4707753	0.0250	1.0685
4	0.0375	6931383	0.0375	1.6540
5	0.0500	9251232	0.0500	2.0322

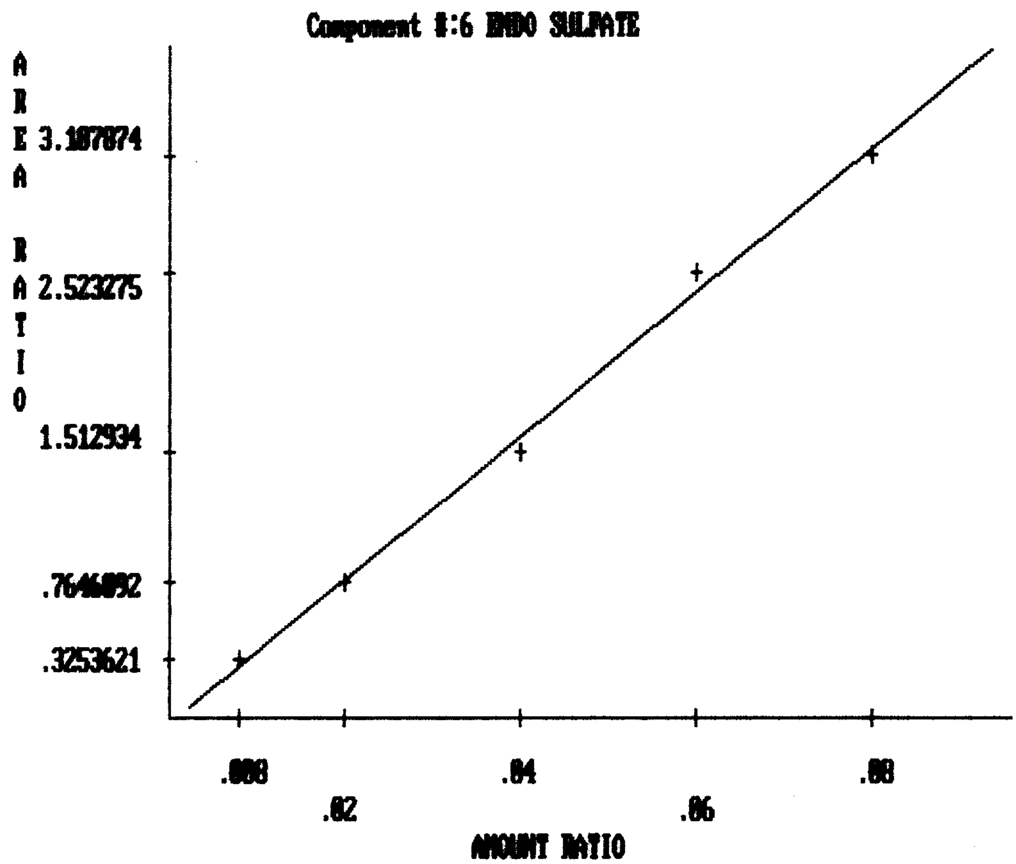
Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 4.0932E+01 * Amt ratio + 4.0165E-02

Amt ratio = 2.4431E-02 * Area ratio + -9.8126E-04

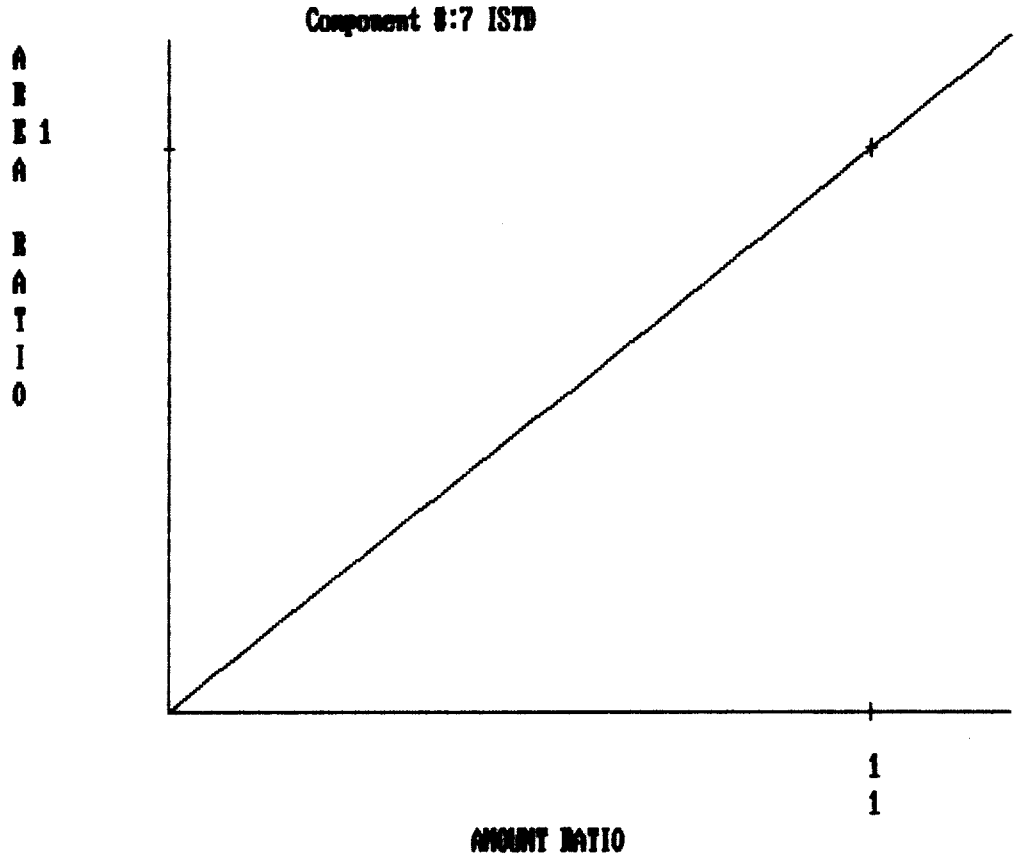
Correlation Coefficient = 0.9956



Component 6 = ENDO SULFATE
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0080	1338251	0.0080	0.3254
2	0.0200	3255185	0.0200	0.7646
3	0.0400	6666047	0.0400	1.5129
4	0.0600	10574460	0.0600	2.5233
5	0.0800	14512410	0.0800	3.1879

Y = SLOPE * X + INTERCEPT
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Area ratio = 4.0741E+01 * Amt ratio + -3.1996E-02
Amt ratio = 2.4546E-02 * Area ratio + 7.8537E-04
Correlation Coefficient = 0.9961



Component 7 = ISTD
INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	1.0000	4113113	1.0000	1.0000
2	1.0000	4257319	1.0000	1.0000
3	1.0000	4406039	1.0000	1.0000
4	1.0000	4190768	1.0000	1.0000
5	1.0000	4552379	1.0000	1.0000

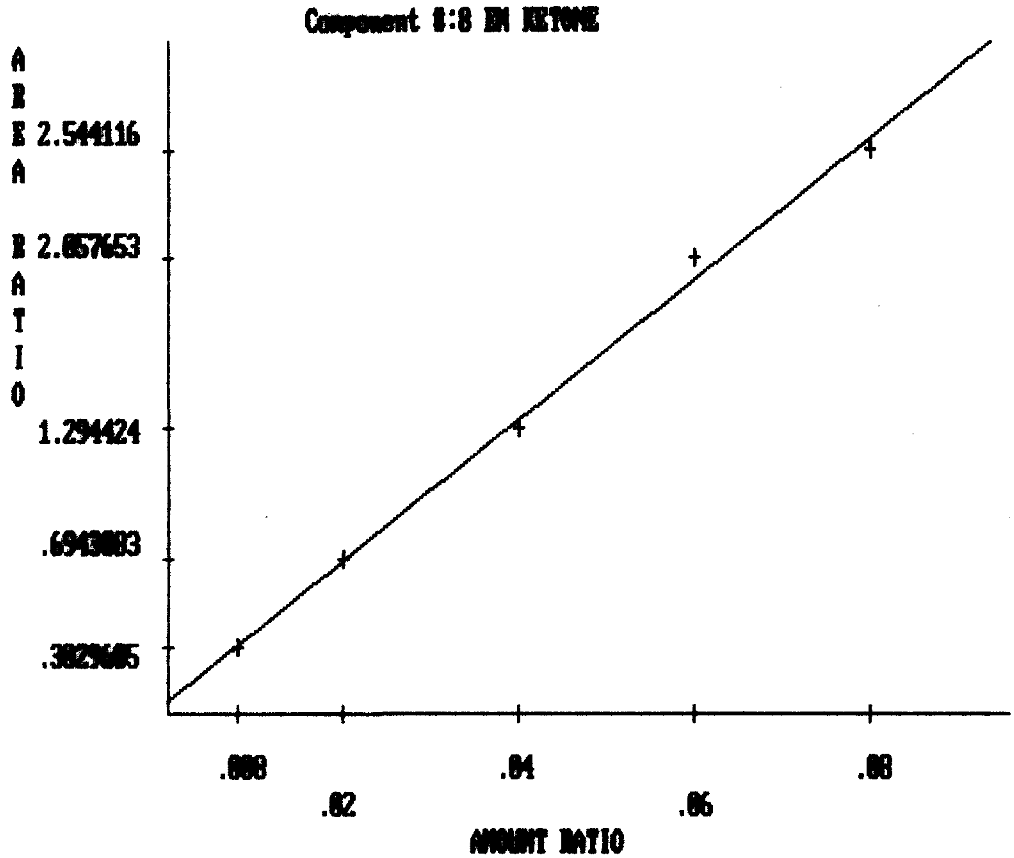
Y = SLOPE * X + INTERCEPT

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 8 = EN KETONE

INTERNAL STANDARD CALIBRATION

LEVEL	AMOUNT	AREA	AMOUNT Ratio	AREA Ratio
1	0.0080	1246111	0.0080	0.3030
2	0.0200	2955892	0.0200	0.6943
3	0.0400	5703282	0.0400	1.2944
4	0.0600	8623146	0.0600	2.0577
5	0.0800	11581780	0.0800	2.5441

Y = SLOPE * X + INTERCEPT

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

Area ratio = 3.1750E+01 * Amt ratio + 5.7872E-02

Amt ratio = 3.1496E-02 * Area ratio + -1.8227E-03

Correlation Coefficient = 0.9962

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

********** 03-21-1990 11:28:57 Version 4.1 **********

* Sample Name: PEST STD A LEVEL 3 Data File: W:2FT19 *
* Date: 03-20-1990 02:30:53 Method: W:CONFA 03-21-1990 08:43:31 # 31 *
* Interface: 0 Cycle#: 19 Operator AK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 5 Area Threshold: 1000 *

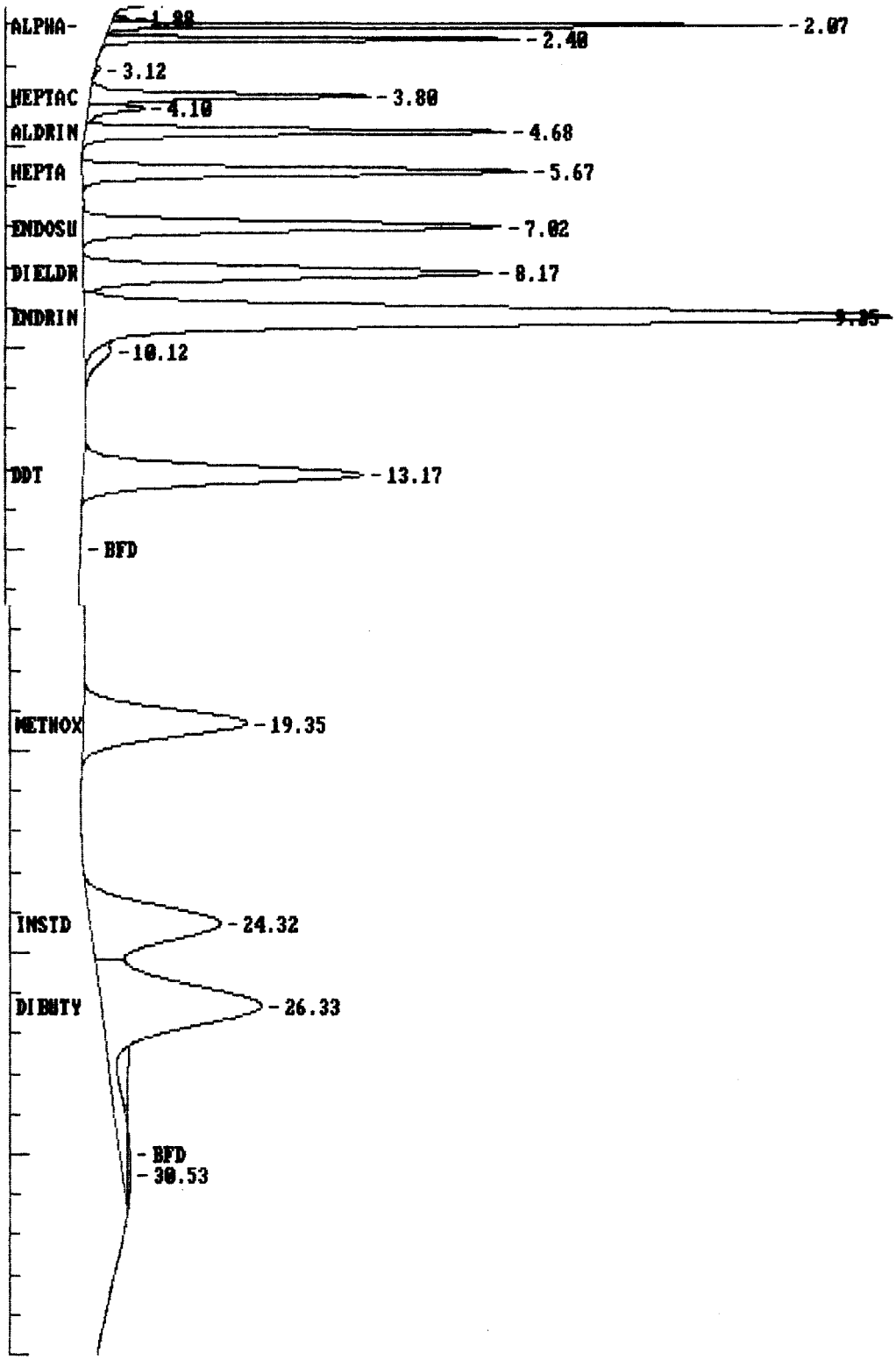
* Instrument Type: HP 5890A #1 Column Type: SINGLE PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS INJ 250C *
* Detector 0: ECD CONF Detector 1: *
* Misc. Information: *

Starting Delay: 1.50 Ending retention time: 40.00
Area reject: 30000 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
1	1.88		0.0000	0.0004%	41264	7904	5.2	2		15		2.3436E-11
2	2.07	ALPHA-BHC	0.0065	2.9078%	1955043	357413	5.5	2	2	15	0	3.3290E-09
3	2.40	LINDANE	0.0052	2.3435%	1383536	221277	6.3	2	3	15	0	3.7912E-09
4	3.12		0.0000	0.0003%	30486	2955	10.3	1		15		2.3436E-11
5	3.80	HEPTACHLOR	0.0049	2.1852%	1606453	149435	10.8	2	5	15	0	3.0445E-09
6	4.10		0.0000	0.0040%	386454	29973	12.9	2		15		2.3436E-11
7	4.68	ALDRIN	0.0104	4.6412%	2679206	223912	12.0	2	7	15	0	3.8773E-09
8	5.67	HEPTA EPOXIDE	0.0128	5.7004%	3430803	236603	14.5	1	8	15	0	3.7189E-09
9	7.02	ENDOSULFAN I	0.0152	6.8055%	3927490	222413	17.7	1	9	15	0	3.8784E-09
10	8.17	DIELDRIN	0.0146	6.5264%	4457307	217432	20.5	2	10	15	0	3.2772E-09
11	9.25	ENDRIN+ENDO II	0.0560	25.0193%	13427221	430264	31.2	3	11	15	0	4.1706E-09
12	10.12		0.0000	0.0035%	338115	9938	34.0	4		15		2.3436E-11
13	13.17	DDT	0.0293	13.0713%	4725125	149329	31.6	1	13	15	0	6.1917E-09
14	19.35	METHOXYCHLOR	0.0352	15.7388%	4168328	87816	47.5	1	14	15	0	8.4512E-09
15	24.32	INSTD MIREX	1.0000	0.0000%	4266916	69407	61.5	2	15	15	0	2.3436E-07
16	26.33	DIBUTYLCHLORENDATE	0.0337	15.0513%	7163704	85659	83.6	3	16	15	0	4.7026E-09
17	30.53		0.0000	0.0009%	88597	1210	73.2	4		15		2.3436E-11

TOTAL AMOUNT = 0.2238

Data File = W:2FT19.PTS Printed on 03-21-1990 at 11:29:26
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 102062 uv High Value: 536611 uv Scale factor: 1.0

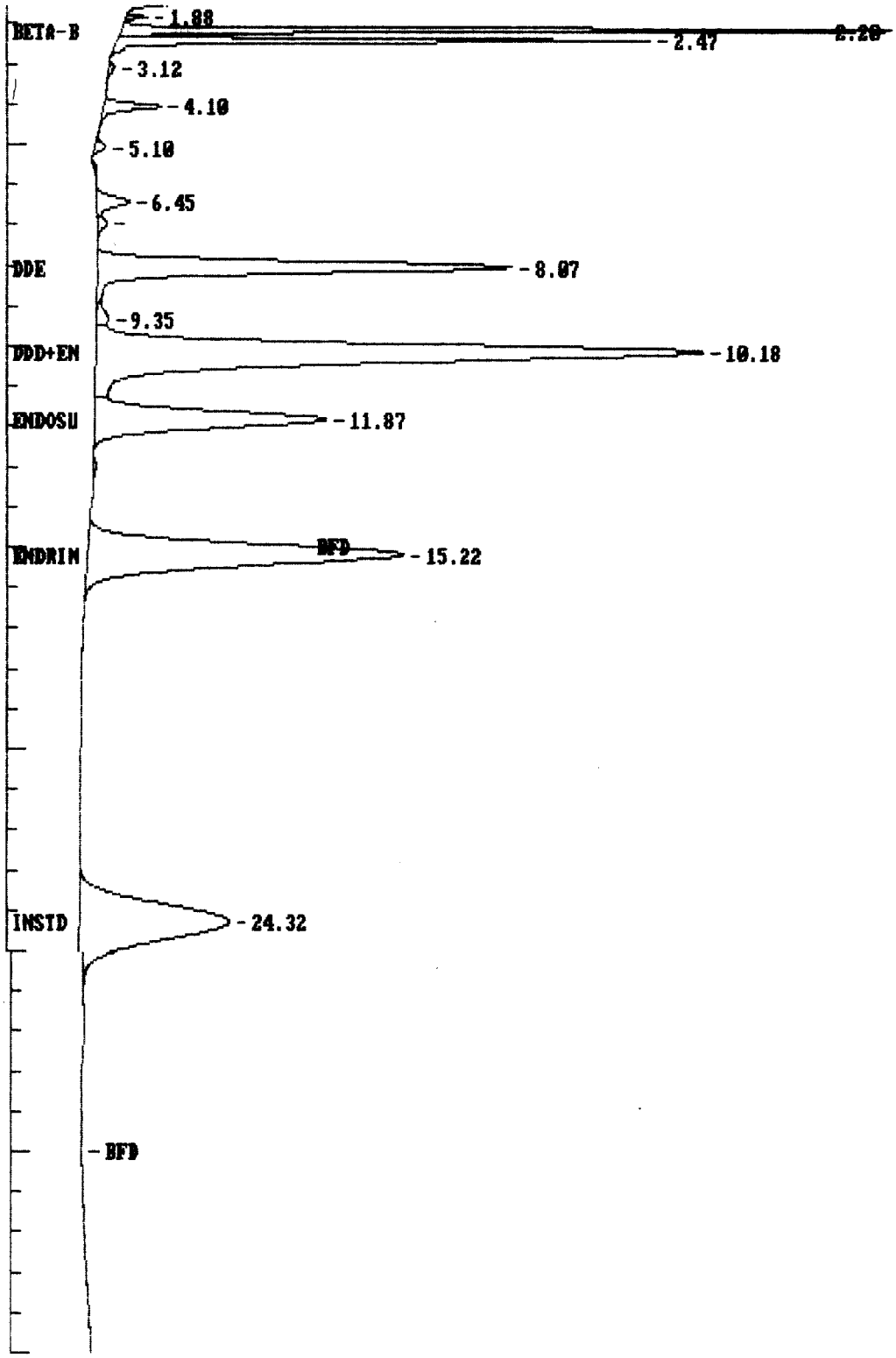


```
*****   INTERNAL STANDARD TABLE   *****
******************** 03-21-1990 11:30:28 Version 4.1 **********************
* Sample Name: PEST STD B LEVEL 3                Data File: W:2FT20        *
* Date: 03-20-1990 03:07:20 Method: W:CONFB  03-21-1990 08:43:48  #  23    *
* Interface: 0   Cycle#:  20   Operator AK  Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 5  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE          *
*             Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                          *
*            Detector 0: ECD CONF            Detector 1:                   *
* Misc. Information:                                                       *
*************************************************************************
Starting Delay:   1.50                      Ending retention time:   40.00
Area reject:    30000                       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
1	1.88		0.0000	0.0007%	53729	9900	5.4	2		16		2.4559E-11
2	2.20	BETA-BHC	0.0141	7.2381%	2173518	339770	6.4	2	2	16	0	6.4975E-09
3	2.47	DELTA-BHC	0.0126	6.4780%	1551857	234883	6.6	2	3	16	0	8.1446E-09
4	3.12		0.0000	0.0005%	39182	2622	14.9	1		16		2.4559E-11
5	4.10		0.0000	0.0043%	341055	25681	13.3	2		16		2.4559E-11
6	5.10		0.0000	0.0010%	81550	5408	15.1	2		16		2.4559E-11
8	6.45		0.0000	0.0035%	278992	14706	19.0	2		16		2.4559E-11
9	7.00		0.0000	0.0010%	80915	4543	17.8	2		16		2.4559E-11
10	8.07	DDE	0.0175	8.9785%	3669321	182749	20.1	3	10	16	0	4.7742E-09
11	9.35		0.0000	0.0016%	129265	5576	23.2	4		16		2.4559E-11
12	10.18	DDD+ENDRINALDE	0.0585	29.9959%	8648683	267730	32.3	2	12	16	0	6.7670E-09
13	11.87	ENDOSULFAN SO4	0.0463	23.7470%	3054264	102772	29.7	2	13	16	0	1.5170E-08
15	15.22	ENDRIN KETONE	0.0459	23.5499%	5168261	138784	37.2	1	15	16	0	8.8906E-09
16	24.32	INSTD MIREX	1.0000	0.0000%	4071760	65921	61.8	1	16	16	0	2.4559E-07

TOTAL AMOUNT = 0.1951

Data File = W:2FT20.PTS Printed on 03-21-1990 at 11:30:54
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 98988 uv High Value: 457527 uv Scale factor: 1.0

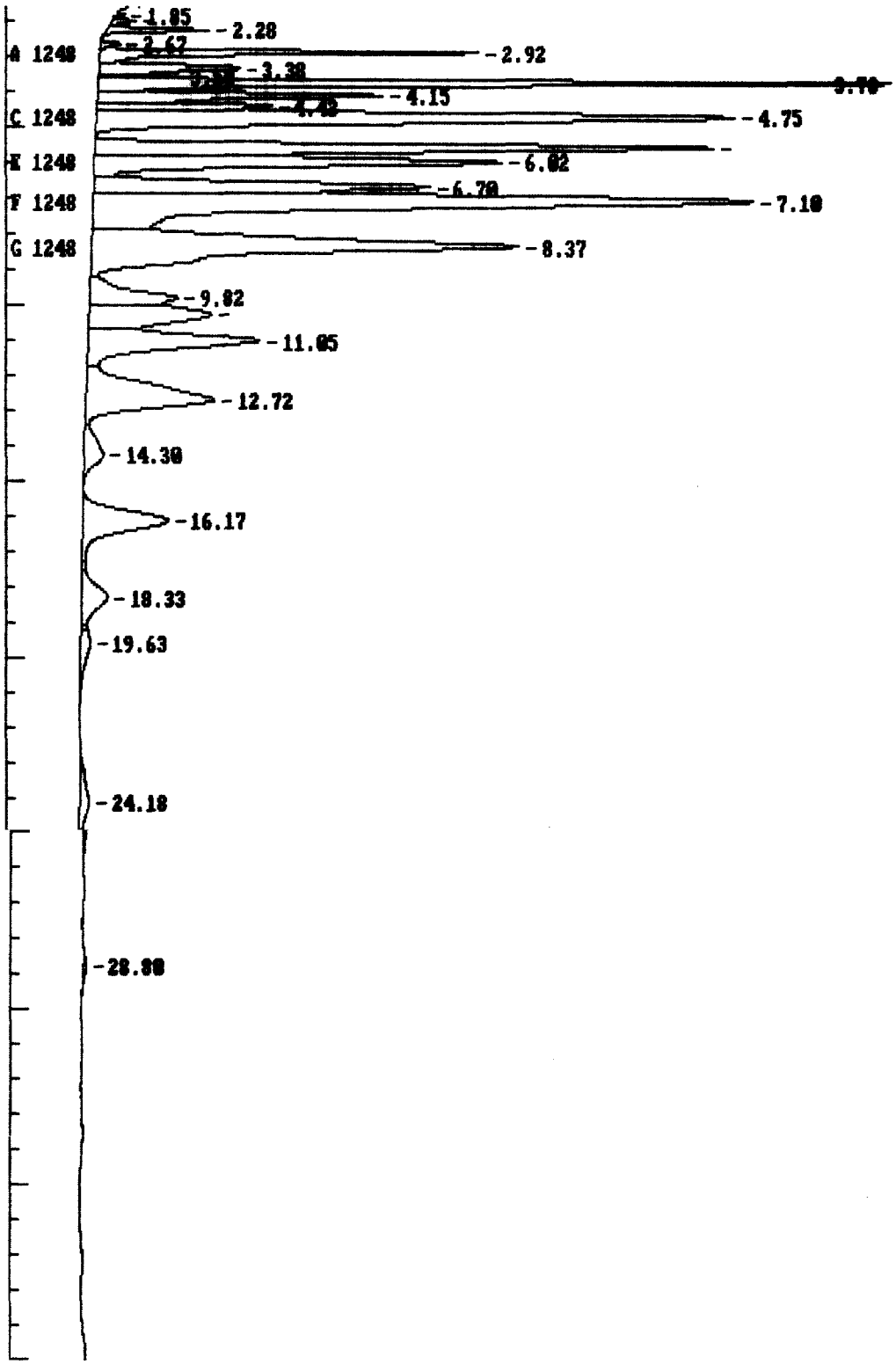


```
*****   EXTERNAL STANDARD TABLE   *****
******************** 03-27-1990 14:32:33 Version 4.1 **********************
* Sample Name: PCB 1248 L4                        Data File: A:QP15        *
* Date: 03-19-1990 22:36:56 Method: A:GMET48 03-27-1990 14:31:49  #  2     *
* Interface: 0   Cycle#:  15   Operator DDF Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000            *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*             Detector 0: ECD QUANT           Detector 1:                 *
* Misc. Information: PE PCBs                                LPT1:      *  *
*************************************************************************
Starting Delay:    1.50                      Ending retention time:    40.00
Area reject:        0                        One sample per   1.000 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	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA
5	2.92	A 1248	0.5000	16.3943%	983803	118639	8.3	2	5	0	5.0823E-07
8	3.78	B 1248	0.5000	16.3943%	2440592	248425	9.8	2	8	0	2.0487E-07
11	4.75	C 1248	0.5000	16.3943%	3901003	200021	19.5	2	11	0	1.2817E-07
12	5.60	D 1248	0.5000	16.3941%	2945512	193796	15.2	2	12	0	1.6975E-07
13	6.02	E 1248	0.0500	1.6394%	2207210	127780	17.3	2	13	0	2.2652E-08
15	7.10	F 1248	0.5000	16.3930%	5570832	206651	27.0	2	15	0	8.9746E-08
16	8.37	G 1248	0.4999	16.3907%	4113253	133966	30.7	2	16	0	1.2153E-07

TOTAL AMOUNT = 3.0498

Data File = A:QP15.PTS Printed on 03-27-1990 at 14:33:31
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 93299 uv High Value: 348670 uv Scale factor: 1.0



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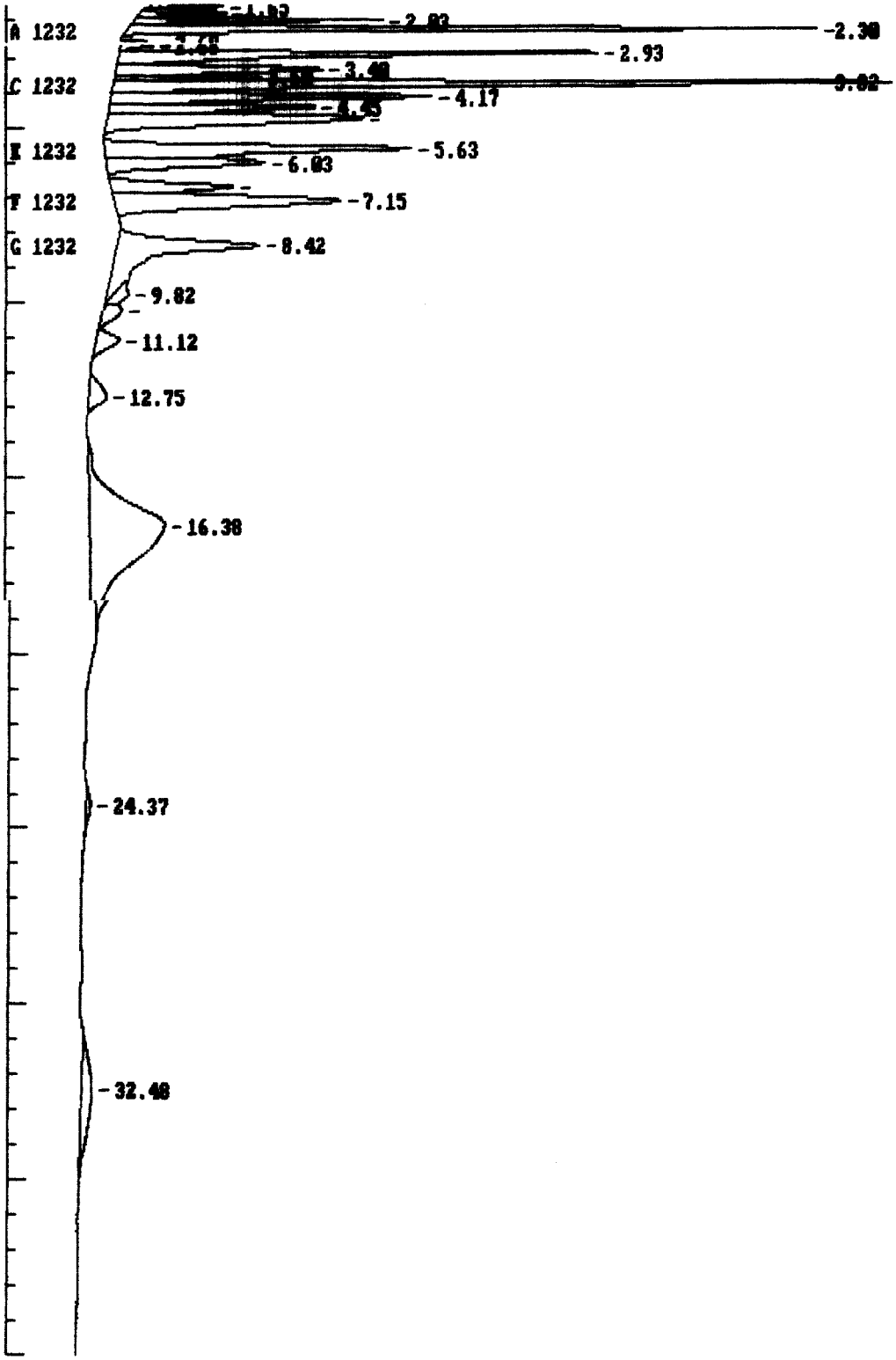
*****   EXTERNAL STANDARD TABLE   *****
******************** 03-27-1990 14:56:19 Version 4.1 **********************
* Sample Name: PCB 1232 ~~14~~ 5                    Data File: A:QP17        *
* Date: 03-19-1990 23:59:24 Method: A:GMET32 03-27-1990 14:55:39  #  4      *
* Interface: 0   Cycle#:  17   Operator DDF Channel#: 0    Vial#: N.A.      *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000             *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE   *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                     *
*             Detector 0: ECD QUANT           Detector 1:                   *
* Misc. Information: PE PCBs                          LPT1:          *     *
*************************************************************************
Starting Delay:    1.50                    Ending retention time:    40.00
Area reject:        0                      One sample per   1.000 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
4	2.30	A 1232	0.5000	16.3934%	1526910	197111	7.7	2	4	0	3.2746E-07
6	2.93	B 1232	0.5000	16.3934%	1355342	137010	9.9	2	6	0	3.6891E-07
9	3.82	C 1232	0.5000	16.3934%	2241912	222937	10.1	2	9	0	2.2302E-07
10	4.17	D 1232	0.5000	16.3934%	1100514	92053	12.0	2	10	0	4.5433E-07
13	5.63	E 1232	0.0500	1.6393%	1420763	87785	16.2	2	13	0	3.5192E-08
16	7.15	F 1232	0.5000	16.3934%	1429028	64675	22.1	2	16	0	3.4989E-07
17	8.42	G 1232	0.5000	16.3934%	1328510	40873	32.5	3	17	0	3.7636E-07

TOTAL AMOUNT = 3.0500

Data File = A:QP17.PTS Printed on 03-27-1990 at 14:57:12
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 96150 uv High Value: 329593 uv Scale factor: 1.0



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

********** 03-27-1990 14:48:57 Version 4.1 **********

* Sample Name: PCB 1254 ~~1.0~~ .5 Data File: A:QP3 *

* Date: 03-19-1990 14:21:54 Method: A:GMET54 03-27-1990 14:48:18 # 4 *

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

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

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *

* Solvent Description: ULTRA HIGH PURITY NITROGEN *

* Conditions: ISOTHERMAL AT 200 CELSIUS *

* Detector 0: ECD QUANT Detector 1: *

* Misc. Information: PE PCBs LPT1: * *

****

Starting Delay: 1.50 Ending retention time: 40.00

Area reject: 0 One sample per 1.000 sec.

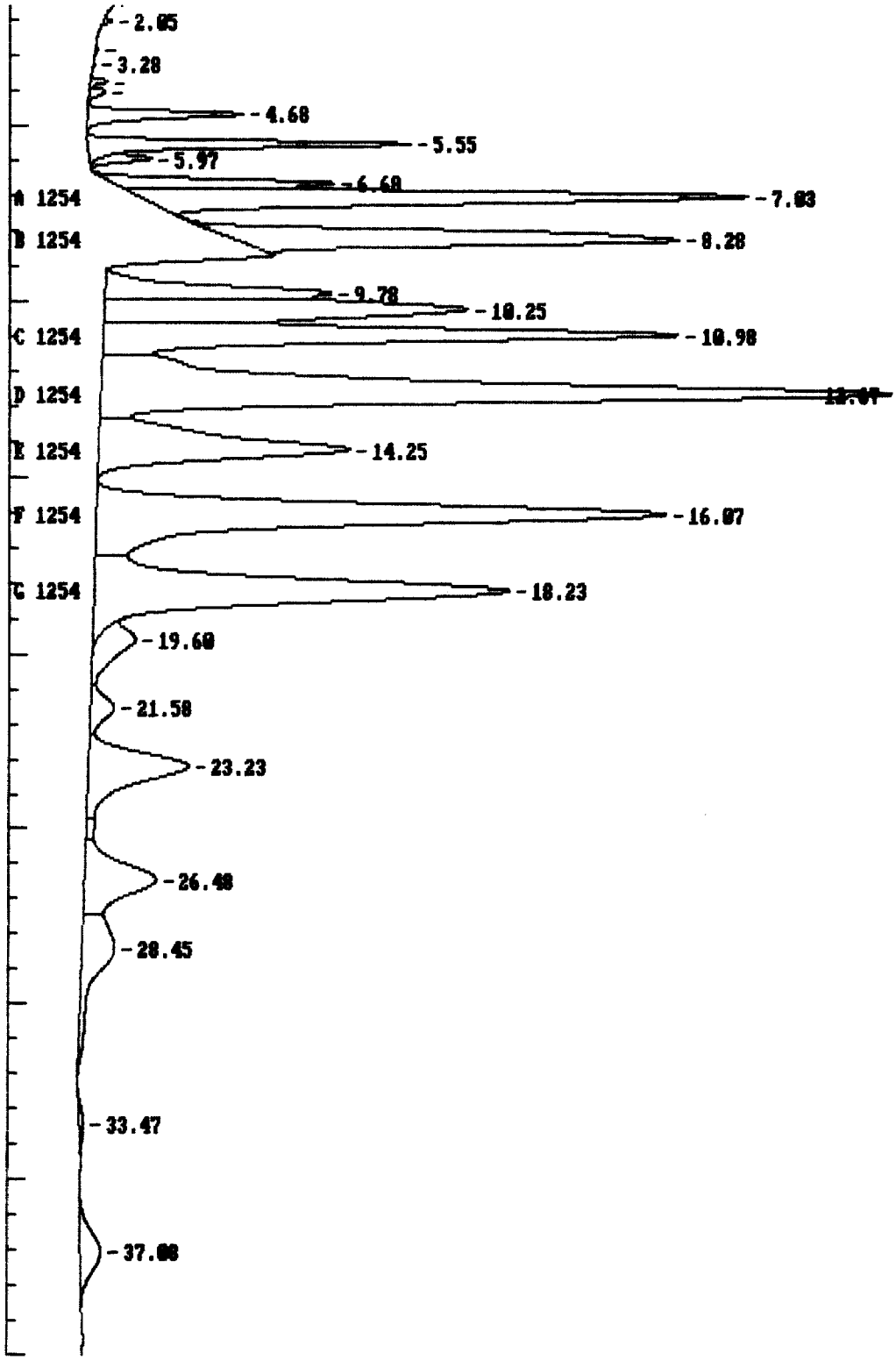
Amount injected: 1.00 Dilution factor: 1.00

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
10	7.03	A 1254	0.5000	14.2860%	7830387	331867	23.6	2	10	0	6.3854E-08
11	8.28	B 1254	0.5000	14.2860%	6497114	239141	27.2	1	11	0	7.6957E-08
14	10.98	C 1254	0.5000	14.2860%	8785591	314039	28.0	2	14	0	5.6911E-08
15	12.67	D 1254	0.5000	14.2860%	17403976	432639	40.2	2	15	0	2.8729E-08
16	14.25	E 1254	0.5000	14.2860%	6129447	137180	44.7	2	16	0	8.1573E-08
17	16.07	F 1254	0.4993	14.2667%	13201036	311114	42.4	2	17	0	3.7825E-08
18	18.23	G 1254	0.5006	14.3034%	11017684	226913	48.6	3	18	0	4.5437E-08

TOTAL AMOUNT = 3.4999

Data File = A:QP3.PTS Printed on 03-27-1990 at 14:49:25
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 89287 uv High Value: 533956 uv Scale factor: 1.0



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

********** 03-27-1990 14:41:25 Version 4.1 **********

* Sample Name: PCB 1260 .5 Data File: A:QP16 *
* Date: 03-19-1990 23:18:10 Method: A:GMET60 03-27-1990 14:40:44 # 4 *
* Interface: 0 Cycle#: 16 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

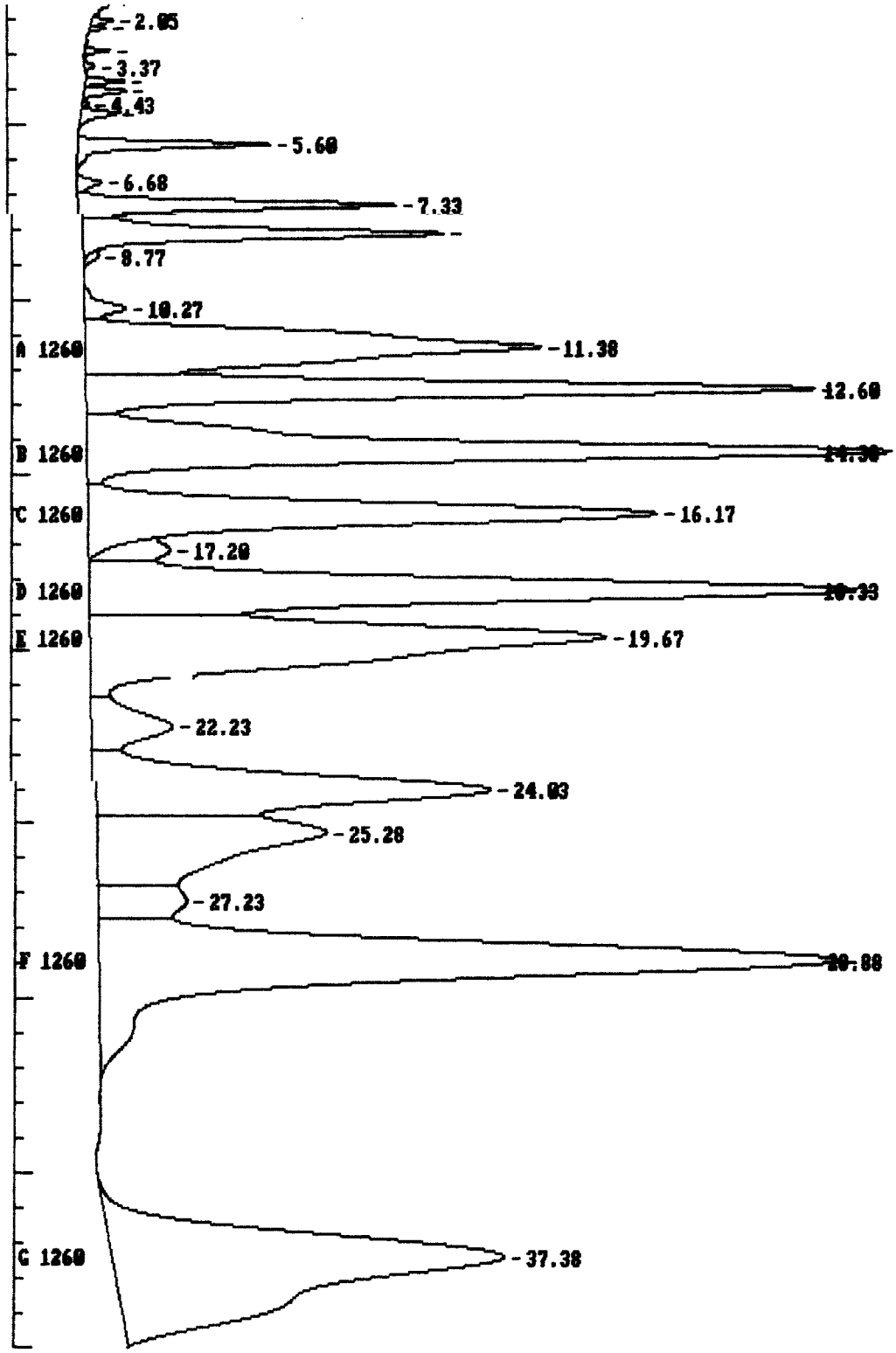
* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: PE PCBs LPT1: * *

Starting Delay: 1.50 Ending retention time: 40.00
Area reject: 0 One sample per 1.000 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
15	11.38	A 1260	0.4999	16.4014%	4665587	89272	52.3	2	15	0	1.0715E-07
17	14.38	B 1260	0.4996	16.3900%	6481725	157712	41.1	2	17	0	7.7073E-08
18	16.17	C 1260	0.4996	16.3919%	5102321	111436	45.8	3	18	0	9.7921E-08
20	18.33	D 1260	0.4985	16.3565%	7098504	150214	47.3	2	20	0	7.0232E-08
21	19.67	E 1260	0.0502	1.6459%	6926264	101165	68.5	2	21	0	7.2428E-09
26	28.88	F 1260	0.4993	16.3820%	10753155	144971	74.2	2	26	0	4.6435E-08
27	37.38	G 1260	0.5009	16.4323%	8712444	76770	113.5	1	27	0	5.7487E-08

TOTAL AMOUNT = 3.0480

Data File = A:QP16.PTS Printed on 03-27-1990 at 14:41:54
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 94829 uv High Value: 253643 uv Scale factor: 1.0

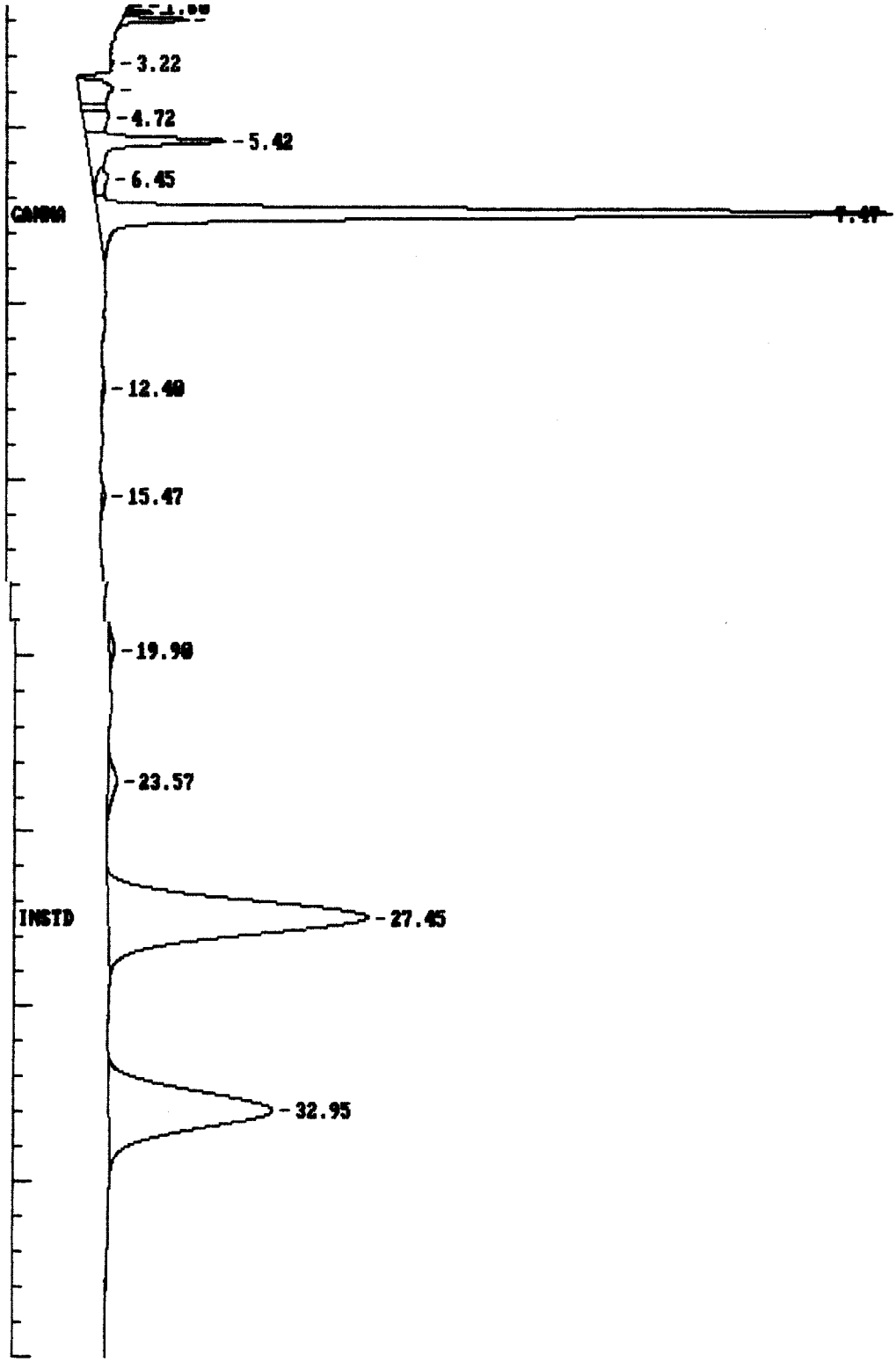


```
******   INTERNAL STANDARD TABLE   ******
******************** 03-27-1990 15:27:20 Version 4.1 **********************
* Sample Name: GAMMA CHLORDANE                    Data File: A:QP52        *
* Date: 03-21-1990 00:01:41 Method: A:G-CHLOR 03-27-1990 15:26:37  #  6   *
* Interface: 0   Cycle#:  52   Operator DDF Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
*************************************************************************
* Instrument Type: HP 5890A #2          Column Type: QUANT.  MIXED PHASE  *
*              Solvent Description: ULTRA HIGH PURITY NITROGEN            *
* Conditions: ISOTHERMAL AT 200 CELSIUS                                   *
*            Detector 0: ECD QUANT           Detector 1:                  *
* Misc. Information: TREKKER                              PE PCBs         *
*************************************************************************
Starting Delay:    1.50                      Ending retention time:    40.00
Area reject:        0                        One sample per   1.000 sec.
Amount injected:        5.00                 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	7.47	GAMMA CHLOR	0.2011	100.0000%	3644860	192157	19.0	2	9	14	0	5.5180E-08
14	27.45	INSTD	1.0000	0.0000%	4205204	62954	66.8	1	14	14	0	2.3780E-07

TOTAL AMOUNT = 0.2011

Data File = A:QP52.PTS Printed on 03-27-1990 at 15:27:55
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 100096 uv High Value: 297283 uv Scale factor: 1.0



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

********** 03-27-1990 15:06:58 Version 4.1 **********

* Sample Name: ALPHA CHLORDANE Data File: A:QP51 *
* Date: 03-20-1990 23:20:27 Method: A:A-CHLOR 03-27-1990 15:06:03 # 4 *
* Interface: 0 Cycle#: 51 Operator DDF Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 1000 *

****

* Instrument Type: HP 5890A #2 Column Type: QUANT. MIXED PHASE *
* Solvent Description: ULTRA HIGH PURITY NITROGEN *
* Conditions: ISOTHERMAL AT 200 CELSIUS *
* Detector 0: ECD QUANT Detector 1: *
* Misc. Information: TREKKER PE PCBs *

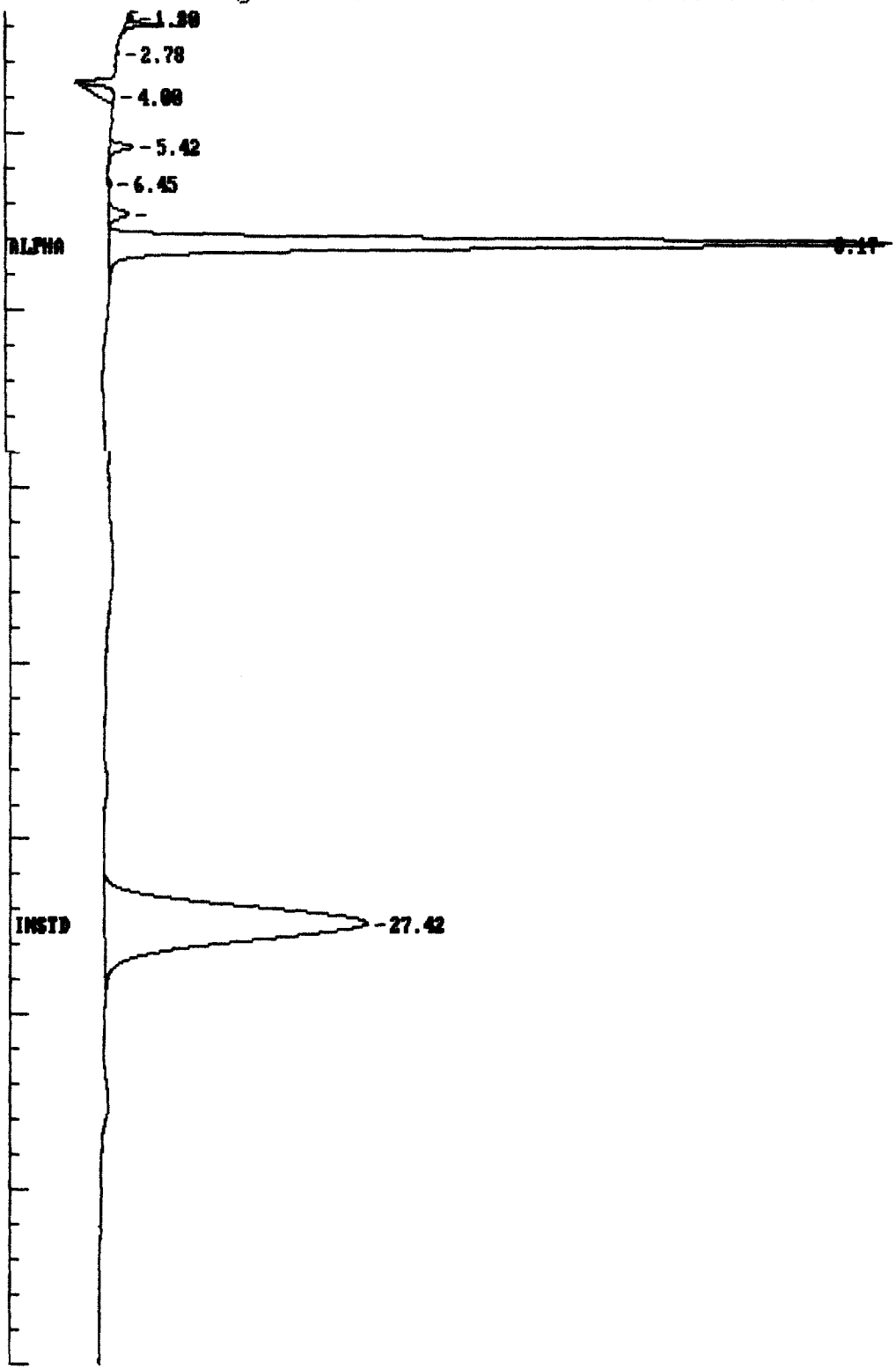
****

Starting Delay: 1.50 Ending retention time: 40.00
Area reject: 0 One sample per 1.000 sec.
Amount injected: 5.00 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	8.17	ALPHA CHLOR	0.2005	100.0000%	3495747	177040	19.7	2	8	9	0	5.7345E-08
9	27.42	INSTD	1.0000	0.0000%	3997064	59590	67.1	1	9	9	0	2.5018E-07

TOTAL AMOUNT = 0.2005

Data File = A:QP51.PTS Printed on 03-27-1990 at 15:07:24
Start time: 1.50 min. Stop time: 40.00 min. Offset: 0 mv.
Low Value: 101547 uv High Value: 286262 uv Scale factor: 1.0

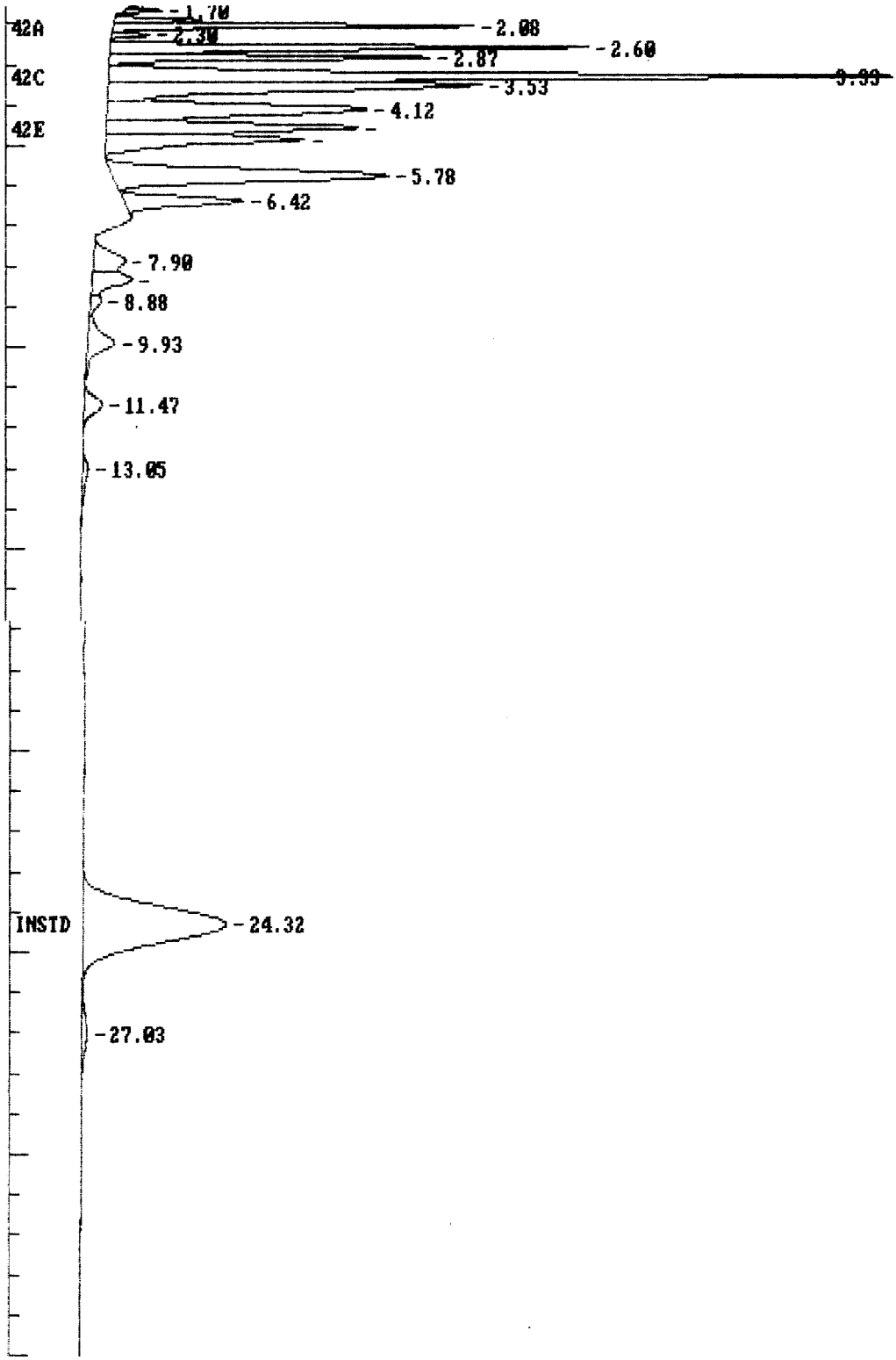


```
*****     INTERNAL STANDARD TABLE     *****
******************** 03-21-1990 11:33:25 Version 4.1 ********************
* Sample Name: STD 1242 2                          Data File: W:2FT26      *
* Date: 03-20-1990 06:45:54 Method: W:CONF42  03-21-1990 08:44:03  #  21  *
* Interface: 0   Cycle#:  26   Operator AK  Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  10   Threshold: 1  Area Threshold: 1000           *
*************************************************************************
* Instrument Type: HP 5890A #1          Column Type: SINGLE PHASE         *
*            Solvent Description: ULTRA HIGH PURITY NITROGEN              *
* Conditions: ISOTHERMAL AT 200 CELSIUS  INJ 250C                         *
*            Detector 0: ECD CONF            Detector 1:                  *
* Misc. Information: TREKKER                                              *
*************************************************************************
Starting Delay:    1.50                      Ending retention time:    40.00
Area reject:        0                        One sample per   1.000 sec.
Amount injected:        5.00                 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	2.08	42A	0.1990	19.4715%	1268754	183469	6.9	2	3	20	0	1.5685E-07
5	2.60	42B	0.2054	20.0978%	2075641	243359	8.5	2	5	20	0	9.8958E-08
7	3.33	42C	0.2071	20.2673%	4413542	399371	11.1	2	7	20	0	4.6932E-08
9	4.12	42D	0.1959	19.1702%	2530003	132551	19.1	2	9	20	0	7.7439E-08
10	4.58	42E	0.2146	20.9932%	1870408	128880	14.5	2	10	20	0	1.1471E-07
20	24.32	INSTD MIREX	1.0000	0.0000%	4542000	73180	62.1	2	20	20	0	2.2017E-07

TOTAL AMOUNT = 1.0220

Data File = W:2FT26.PTS Printed on 03-21-1990 at 11:33:43
Start time: 1.50 min. Stop time: 35.00 min. Offset: 0 mv.
Low Value: 97206 uv High Value: 512958 uv Scale factor: 1.0



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: APR 09 1990

SUBJECT: Review of Region 5 data for Trekker Chemical

FROM: Curtis Ross, Director
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF 7035
Sample Numbers: 90 FD10538 - 541 / R08
Parameter(s): CN
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 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)

TRANSMITTED BY
APR 09 1990
U.S. EPA CENTRAL REGIONAL LAB

RECEIVED BY/DATE:

Comments:

DATA SET	SITE	OU/ACT.
SF7035	Trekker Chemical	TFA

SAMPLES	PARAMETER(S)
90FD10538 - 541/R08	CN

SAMPLED	RECEIVED	DUE	LAB
3/7-8/90	3/9/90	3/30/90	CRL

SHIPPED	DATA RECEIVED	CONTRACT
—	N/A	—

Comments By Reviewer:

(✓) REVIEWED	( ) UNREVIEWED	BP 4/9/90 TEAM LEADER/DATE
(✓) REVIEWED	( ) UNREVIEWED	SECTION CHIEF/DATE Chi Yang 4/9/90
( ) REVIEWED	( ) UNREVIEWED	QC COORDINATOR/DATE

REVIEWED BY CONTRACT COORDINATOR/DATE

RECEIVED	TRANSMITTED	DATA MANAGEMENT COORDINATOR
4-9-90	4-9-90	Griffin

OK-DB
4/9/90

TFA302

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS - NUTRIENTS

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE ~~3/5/90~~ TN 3/8/90 3/7/90 LAB ARRIVAL DATE 3/9/90 DUE DATE 3/~~29~~ 30/90

DU NUMBER TFA-[redacted] DATA SET NUMBER 7035 STUDY TreKker Chemical 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 76020	WATER CR^{+6} UG CR^{+6}/L MIN 74616	WATER MERCURY UG HG/L MIN 74717
90FD10538	RW1 5-082054		X 5 u			
39	RW2 5-082062		X 5 u			
40	RW3 5-082078		X 5 u			
41	RW4 5-082086		X 5 u			
D 39	DUP 5-082070		X 5 u			
90FD02R08	BLANK 5-082094		X 5 u.			
			H. Pham			
			3/21/90			
	These samples are tested by Auto U.V screening method # 335.3 NS					
	SHIPMENT (IS) / ~~IS NOT~~ COMPLETE					

* REGRESSION ANALYSIS * CSC VERSION 2.00 *

NAME OF ANALYST ---: HP
PARAMETER NAME ----: CN (Auto U.V)
DATE OF ANALYSIS --: 03-21-1990

DATA SET NUMBER ---: SF7035
DU NUMBER ---------: Y905

DEGREE OF FIT : 1

EQUATION : CONCENTRATION = -2.46952E-01
+5.73804E-01 * SIGNAL

COEFFICIENT OF DETERMINATION : .999932

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	-0.247
2	+9.500	+5.000	+5.204
3	+18.000	+10.000	+10.081
4	+44.000	+25.000	+25.000
5	+87.500	+50.000	+49.960

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

SAMPLE I.D.	SIGNAL	CONCENTRATION	
BLK	+0.000	-0.247	limit ≤ 5.00
AQC TV=5.00	+10.000	+5.491	
AQC TV=20.00	+38.000	+21.557	limit 20 ± 5
90FD10R08	+0.000	-0.247	
S38	+0.000	-0.247	
S39	+0.000	-0.247	
S40	+0.000	-0.247	
S41	+0.000	-0.247	
D39	+0.000	-0.247	
S38 DUP.	+0.000	-0.247	
BLK	+0.000	-0.247	
S38 SPK. +20	+37.000	+20.983	(20.98-(-.2))/20 = 106% rec. limit 100 ± 20%.
BLK	+0.000	-0.247	limit ≤ 5.0
AQC TV=5.00	+10.200	+5.605	
AQC TV=20.00	+36.000	+20.409	limit 20 ± 5.

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: APR 24 1990

SUBJECT: Review of Region 5 data for Trekker Chemical Co.

FROM: Curtis Ross, Director
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF 7035
Sample Numbers: 90FD10 538 – 541, D39, 90FD02R08
Parameter(s): As, Cd, Pb, Sb, Se, Tl
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 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)

TRANSMITTED BY
APR 24 1990
U.S. EPA CENTRAL
REGIONAL LAB

RECEIVED BY/DATE:
Comments:

DATA SET	SITE	DU/ACT.
SF7035	Trekker Chemical	TFA302

OTFA 05 WUZZ

SAMPLES	PARAMETER(S)
90FD10538-541, D39, 90FD02R08	As, Cd, Pb, Sb, Se, Tl

SAMPLED	RECEIVED	DUE	LAB
8 Mar 90	9 Mar 90	30 Mar 90	CRL

SHIPPED	DATA RECEIVED	CONTRACT
NA →	→	→

Comments By Reviewer:

(✓) REVIEWED ( ) UNREVIEWED TEAM LEADER/DATE [signature] 23 Apr 90

(✓) REVIEWED ( ) UNREVIEWED SECTION CHIEF/DATE Eli Tang 4/24/90

( ) REVIEWED ( ) UNREVIEWED QC COORDINATOR/DATE

REVIEWED BY CONTRACT COORDINATOR/DATE

RECEIVED	TRANSMITTED	DATA MANAGEMENT COORDINATOR
4-24-90	4-24-90	S Duffin

OTFA05WUZZ

JVM 27 Apr 90

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

TFA302

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 3/8/90 LAB ARRIVAL DATE 3/9/90 DUE DATE 3/~~29~~ 30/90

DU NUMBER TFA[redacted] DATA SET NUMBER 7035 STUDY Trekker Chemical 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 MET181	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
90FD10S38	RW1 5-082-053	X 0.2u	X	X 3.8	X 2u	X 2u	X 2u	X 2u
39	RW2 5-082-061	X 0.2u	X	X 2.9	X 2u	X 2u	X 2u	X 2u
40	RW3 5-082-077	X 0.2u	X	X 2u	X 2u	X 2u	X 2u	X 2u
41	RW4 5-082-085	X 0.2u	X	X 18.9	X 2u	X 2u	X 2u	X 2u
↓ D39	DUP 5-082-069	X 0.2u	X	X 2.2	X 2u	X 2u	X 2u	X 2u
90FD02R08	BLANK 5-082-013	X 0.2u	X	X 2u	X 2u	X 2u	X 2u	X 2u
		4/19/90		3/28/90	3/21/90	JVM	3/27/90	3/22/90
		H. Pham		H. Pham	H. Pham	5 Apr 90	H. Pham	H. Pham
			SHIPMENT (IS) / IS NOT COMPLETE					

JMM
23 Apr 90

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* FLAMELESS * CSC VERSION 1.00 *

NAME OF ANALYST ---: HP
DATE OF ANALYSIS --: 03-28-1990
PARAMETER NAME ----: AS
DATA SET # --------: SF7035

SAMPLE NO.	CONC.	R VALUE	SLOPE
BLK	0	.9998932	.0075 limit ≤ 2.0
AQC TV=20.00	19.48851	.9992286	.01349 19.48/20 = 98% rec, limit 100±10%
90FD02R08	-.2859161	.9989307	.01434
FD10S38	3.798144	.9995624	.01298
S39	2.879023	.9957984	.01306
S40	1.712057	.9996881	.01285
S41	18.90805	.996209	.01392
D39	2.168679	.998547	.01328
~~S41 DUP.~~	~~22.30192~~	~~.9947499~~	~~.01199~~
AQC TV=20.00	20.96304	.9974937	.01163 20.9/20 = 104% rec, limit 100±10%.

BLK

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	0	0	0	1.701412E+38 %
10	.074	.075	9.999946E-04	1.333326 %
20	.152	.15	-2.000004E-03	-1.333336 %
30	.224	.225	9.999871E-04	.4444388 %

AQC TV=20.00

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.26	.2629	2.900034E-03	1.103094 %
10	.406	.3978	-8.19999E-03	-2.061335 %
20	.525	.5327	7.699967E-03	1.44546 %
30	.67	.6676	-.0024001	-.3595118 %

90FD02R08

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.004	-4.100037E-03	-8.100036E-03	197.5601 %
10	.129	.1393	1.029997E-02	7.394092 %
20	.279	.2827	3.699929E-03	1.308783 %
30	.432	.4261	-5.900055E-03	-1.384665 %

FD10S38

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.049	4.929993E-02	2.999269E-04	.6083718 %
10	.183	.1791	-3.900051E-03	-2.177584 %

10	.183	.1791	-3.900051E-03	-2.177584 %
20	.302	.3089	6.899983E-03	2.233727 %
30	.442	.4387	-3.299981E-03	-.7522182 %

JVM
23Apr90

S39

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.046	3.760004E-02	-8.399963E-03	-22.34031 %
10	.166	.1682	2.200022E-03	1.30798 %
20	.278	.2988	.0208	6.961177 %
30	.444	.4294	-1.460004E-02	-3.400103 %

S40

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.021	2.199994E-02	9.999387E-04	4.545189 %
10	.149	.1505	1.499981E-03	.996665 %
20	.285	.279	-5.999983E-03	-2.150531 %
30	.404	.4075001	3.500044E-03	.8589064 %

S41

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.276	.2632001	-1.279992E-02	-4.86319 %
10	.391	.4024001	1.140004E-02	2.833013 %
20	.526	.5416	1.559997E-02	2.880348 %
30	.695	.6808	-1.419997E-02	-2.085777 %

D39

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.031	2.880005E-02	-2.199952E-03	-7.638708 %
10	.165	.1616	-3.399983E-03	-2.10395 %
20	.281	.2944	1.340002E-02	4.551637 %
30	.435	.4272	-7.800013E-03	-1.825846 %

S41 DUP.

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.257	.2674	1.040003E-02	3.889314 %
10	.393	.3873001	-5.699963E-03	-1.471718 %
20	.527	.5072001	-1.979995E-02	-3.903775 %
30	.612	.6271001	1.510012E-02	2.407929 %

AQC TV=20.00

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.234	.2438001	9.800106E-03	4.01973 %
10	.375	.3601001	-1.489991E-02	-4.137714 %
20	.476	.4764001	4.000366E-04	8.397072E-02 %
30	.588	.5927	4.700005E-03	.7929821 %

¿BEGIN DATA FILE: AS008.DF

SF 7027 / SF 7035.

Jvm
23 Apr 90

Begin Element - AS
0.001
0.000 AZ
0.005
0.233
0.494
0.948
0.499
-0.000
0.074
0.152
0.224 PIK.
0.153
0.233
0.321
0.403 ADC
-0.001
0.066
0.151
0.235
0.029
0.106
0.182
0.263
0.018
0.087
0.157
0.225
0.007
0.072
0.142
0.214
0.132
0.196
0.273
0.349
0.017
0.082
0.150
0.211
0.131
0.205
0.279
0.343 ADC.
0.143
0.223
0.309
0.385 ~~ADC~~ HP
0.287
0.446
0.611
0.788
0.290
0.445
0.612
0.775
~~-0.002~~
0.260
0.406
0.525
LSC.

	A&C.
0.670	
0.004	90FD002R08
0.129	
0.279	
0.432	
0.049	FD10 S38
0.183	
0.302	
0.442	
0.046	S39
0.166	
0.278	
0.444	
0.021	S40
0.149	
0.285	
0.404	
0.276	S41
0.391	
0.526	
0.695	
0.031	D39
0.165	
0.281	
0.435	
0.257	S41 Dup.
0.393	
0.527	
0.612	
0.234	A&C.
0.375	
0.476	
0.588	
0.001	#1
0.113	
0.280	
0.399	
0.003	#2
0.105	
0.228	
0.316	
0.288	ZF16562
0.399	
0.527	
0.625	
0.303	S64
0.407	
~~0.536~~	
0.576	
0.301	D64
0.381	
0.502	
0.616	
-0.001	R19
0.088	
0.176	
0.272	
0.002	#1 Dup.
0.103	
0.197	
0.284	
0.173	

Jm
~3/Apr 90

JM
23 Apr 90

0.358
0.459

0.403
0.567
0.780
0.944 Acc.

-0.001
0.181
0.366
0.555 #1

-0.003
0.160
0.338
0.513 #2

0.397
0.568
0.747
0.913 S62

0.487
0.648
0.801
0.962 S64

0.452
0.630
0.798
0.976 D64

-0.003
0.151
0.313
0.485 R19

-0.001
0.161
0.337
0.523 #1 Dmp.

0.386
0.545
0.726
0.951 Arc.

0.476
0.651
0.829
1.016

02 ER
02 ER

-0.003
0.138
0.274
0.408

-0.006
0.127
0.285
0.417

1.656
1.961

0.635
0.694
0.741

1.057
0.645
1.043
1.155
1.590
0.364

0.538
0.721
0.909

aal.

JVM
23 Apr 90

* REGRESSION ANALYSIS * CSC VERSION 2.00 *

NAME OF ANALYST ---: HP
PARAMETER NAME ----: CD
DATE OF ANALYSIS --: 04-20-1990

DATA SET NUMBER ---: SF7027-70
DU NUMBER ---------: Y905/B304

jvm
~3Apr90

DEGREE OF FIT : 1

EQUATION : CONCENTRATION = +3.25475E-02
+7.31810E+00 * SIGNAL

COEFFICIENT OF DETERMINATION : .998189

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

STANDARD	SIGNAL	CONCENTRATION	CALCULATED
1	-0.007	+0.000	-0.019
2	+0.065	+0.500	+0.508
3	+0.133	+1.000	+1.005
4	+0.207	+1.500	+1.547
5	+0.263	+2.000	+1.957

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

SAMPLE I.D.	SIGNAL	CONCENTRATION	
AQC TV=0.975	+0.135	+1.020	105% rec. limit 100±10%.
BLK	-0.001	+0.025	limit ≤0.2
90ZF16S62 FIL.	+0.009	+0.098	
S62 +1	+0.154	+1.159	106% rec. limit 100 ±10%.
S64 FIL.	-0.002	+0.017	
S64 S.	+0.144	+1.086	107% rec.
D64 FIL.	+0.012	+0.120	
D64 S.	+0.163	+1.225	110 % rec.
R19 FIL. HP.	+0.004	+0.061	
R19 S.	+0.152	+1.144	108% rec.
~~S62 UNFIL.~~	~~+0.193~~	~~+1.444~~	HP
~~S62 S.~~	~~+0.280~~	~~+2.081~~	~~64% rec.~~
S64 UNFIL. HP.	+0.032	+0.266	
S64 S.	+0.174	+1.305	104% rec.
D64 UNFIL.	+0.044	+0.354	
D64 S.	+0.187	+1.401	105% rec
R19 UNFIL.	-0.003	+0.010	
R19 S.	+0.170	+1.276*	126% rec.
S62 UNFIL. DUP.	+0.207	+1.547	
S62 S.	+0.329	+2.440	90% rec.
~~BLK DIG.~~	~~+0.000~~	~~+0.032~~	error data entry.
BLK DIG.	+0.019	+0.171	
BLK S.	+0.169	+1.269	110% rec.
S62 UNF. SPK. 10X.	+0.161	+1.210	X10 = (12.1 - 1.89)/10 = 102% rec. limit 100 ±15%.
S62 S. 10X	+0.301	+2.235	102% rec.
S62 FIL. DUP.	-0.003	+0.010	
S62 S.	+0.155	+1.166	*115% rec.
BLK	-0.005	-0.005	limit ≤ 0.2
AQC TV=0.975	+0.129	+0.976	100% rec limit 100 ±10%.
FD10S38	+0.001	+0.039	
S38 S.	+0.142	+1.071	103 % rec.
S39	+0.000	+0.032	
S39 S.	+0.156	+1.174*	114 % rec.

BLK	-0.005	-0.005	Limit ≤ 0.2
AQC TV=0.975	+0.129	+0.976	100% rec limit 100 ± 10%.
FD10S38	+0.001	+0.039	
S38 S.	+0.142	+1.071	103 % rec.
S39	+0.000	+0.032	
S39 S.	+0.156	+1.174*	114 % rec.
D39	-0.001	+0.025	
D39 S.	+0.139	+1.049	103% rec.
S40	-0.007	-0.019	
S40 S.	+0.144	+1.086	110% rec.
S41	-0.001	+0.025	
S41 S.	+0.141	+1.064	104 % rec.
R08	-0.002	+0.017	
R08 S.	+0.152	+1.144*	112% rec.
S38 DUP.	+0.004	+0.061	
S38 D. S.	+0.148	+1.115	105 % rec.
~~S62 UNFIL.~~	~~+0.160~~	~~+1.203~~	
~~S62 S.~~	~~+0.269~~	~~+2.001~~	~~80% rec.~~ MP
BLK	+0.004	+0.061	limit ≤ 0.2
AQC TV=0.975	+0.141	+1.064	109 % rec. limit 100 ± 10%.
~~S62 UNFIL.~~	~~+0.183~~	~~+1.371~~	
~~S62 S.~~	~~+0.301~~	~~+2.235~~	~~86% rec.~~ MP
FR02R19	+0.001	+0.039	
R19 S.	+0.155	+1.166*	113 % rec.
FR11S26	+0.001	+0.039	
S26 S.	+0.154	+1.159*	112 % rec.
S27	+0.010	+0.105	
S27 S.	+0.166	+1.247*	115 % rec.
~~D27~~	~~+0.024~~	~~+0.208~~	
~~D27 S.~~	~~+0.179~~	~~+1.342~~	~~114 % rec.~~ MP. (rerun).
S28	+0.001	+0.039	
S28 S.	+0.162	+1.218*	118 % rec
S28 DUP.	-0.003	+0.010	
S28 D. S.	+0.167	+1.254*	124 % rec.
~~S62 UNFIL.~~	~~+0.151~~	~~+1.137~~	
~~S62 S.~~	~~+0.310~~	~~+2.301~~	~~116% rec.~~ MP
BLK	+0.005	+0.069	limit ≤ 0.2
AQC TV=0.975	+0.135	+1.020	105 % rec. limit 100 ± 10%.
D27	+0.009	+0.098	
D27 S.	+0.170	+1.276*	117% rec.
FZ11S22	+0.004	+0.061	
S22 S.	+0.156	+1.174*	111% rec.
D22	+0.005	+0.069	
D22 S.	+0.151	+1.137	107% rec.
S23	-0.006	-0.012	
S23 S.	+0.159	+1.196*	120% rec.
S24	+0.003	+0.054	
S24 S.	+0.154	+1.159	110% rec.
S25	+0.011	+0.113	
S25 S.	+0.169	+1.269*	115 % rec.
R18	-0.001	+0.025	
R18 S.	+0.159	+1.196*	117% rec.
S25 DUP.	+0.010	+0.105	
S25 D. S.	+0.165	+1.240*	114 % rec.
BLK diz.	+0.005	+0.069	
BLK S. MP.	+0.142	+1.071	101% rec.
BLK	+0.004	+0.061	limit ≤ 0.2
AQC TV=0.975	+0.133	+1.005	103% rec.
S62 UNFIL. 3X	+0.082	+0.632	X3 = 1.896
S62 S. 3X	+0.221	+1.649	100% rec.
S62 UNFIL. 3X D	+0.071	+0.552	X3 = 1.66
S62 3X S.	+0.218	+1.627	107% rec.
BLK	+0.002	+0.047	limit ≤ 0.2
AQC TV=0.975	+0.142	+1.071	110% rec.

sp 7035

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* The analytical spk. rec. is higher than control limit (100±10%), but the conc. of Cd is lower than IDL; data are accep

JVM
23 Apr 90

SBEGIN DATA FILE: CD007.DF

7027 / 70

Analyst: H. Pham.

4/19/90.

Begin Element - CD
0.000 AZ
-0.007
0.065
0.133
0.207
0.263
} std. cal. curve.
0.135 A&C
-0.001 BIK
0.009
0.154
) 90ZF16 S62 filtered.
-0.002
0.144
) S64
0.012
0.163
) D64
0.004
0.152
) R19
0.193
0.280
) S62 unfil.
0.032
0.174
) S64
0.044
0.187
) D64
-0.003
0.170
) R19
0.207
0.329
) S62 dup.
0.019
0.169
) BIK dig.
0.161
0.301
) S62 spk. 1/10
-0.003
0.155
) S62 filtered dup.
-0.005 BIK
0.129 A&C
0.001
0.142
) 90 FD10 S38
-0.000
0.155
) S39

0.004) R19
0.152
0.193) S62 unfil.
0.280
0.032) S64
0.174
0.044) D64
0.187
-0.003) R19
0.170
0.207) S62 dup.
0.329
0.019) BIK dig.
0.169
0.161) S62 spk. 1/10
0.301
-0.003) S62 filtered dup.
0.155
-0.005 BIK
0.129 A&C
0.001) 90 FD10 S38
0.142
-0.000) S39
0.156
-0.001) D39
0.139
-0.007) S40
0.144
-0.001) S41
0.141
-0.002) R08
0.152
0.004) S38 dup.
0.148
0.160) S62 unfil.
0.269
0.004 BIK
0.141 A&C
0.183) S62 unfil.
0.301
0.001) 90 FR02R19
0.155
0.001) FR11 S26
0.154
0.010) S27
0.166
0.024) D27
0.179
0.001) S28
0.162
-0.003) S28 dup.
0.167
0.151) S62 unfil.
0.310
0.005 BIK
0.135 A&C.
0.009) D27
0.170
0.156) 90FZ11 S22
0.004
0.151) D22
0.005

JVM
23Apr90

) 90 + KQ2K14
0.155
FR11
0.001) S26
0.154
0.010
) S27
0.166
0.024) D27
0.179
0.001) S28
0.162
-0.003) S28 drop.
0.167
0.151) S62 unfil.
0.310
0.005 BIK
0.135 ADC.
0.009
0.170) D27
0.156) 90FZ11 S22
0.004
0.151) D22
0.005
0.159) S23
-0.006
~~0.155~~) error cup entries
0.154) S24
0.003
0.169) S25
0.011
0.159) R18
-0.001
0.165) S25 drop.
0.010
0.005) BIK dig.
0.142
0.004 BIK
0.133 ADC
0.140 ADC
0.082) S62 unfil 1/3 drop.
0.221
0.071) S62 unfil 1/3
0.218
0.002 BIK
0.142 ADC.

NM
23 Apr 93

* REGRESSION ANALYSIS * CSC VERSION 2.00 *

NAME OF ANALYST ---: HP
PARAMETER NAME ----: PB
DATE OF ANALYSIS --: 03-21-1990

DATA SET NUMBER ---: SF7027-7035
DU NUMBER ---------: Y905

JVM
23 Apr 90

DEGREE OF FIT : 1

EQUATION : CONCENTRATION = -5.67493E-01
+1.06900E+02 * SIGNAL

COEFFICIENT OF DETERMINATION : .9995134

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

STANDARD	SIGNAL	CONCENTRATION	CALCULATED
1	+0.004	+0.000	-0.140
2	+0.100	+10.000	+10.122
3	+0.191	+20.000	+19.850
4	+0.291	+30.000	+30.540
5	+0.376	+40.000	+39.626

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

SAMPLE I.D.	SIGNAL	CONCENTRATION	
AQC TV=22.4	+0.219	+22.843	22.8 /22.4 = 102% rec. limit 100±10%
BLK	+0.008	+0.287	limit ≤ 2.00
90FD10S38	-0.001	-0.675	
S38 +20	+0.193	+20.064	(20.1-(-.7))/20 = 104 % rec.
S39	+0.011	+0.608	
S39 +20	+0.189	+19.636	(19.6 - .6)/20 = 95% rec.
S40	+0.009	+0.394	
S40 +20	+0.206	+21.453	(21.4 - 0.4)/20 = 105 % rec.
S41	-0.002	-0.782	
S41 +20	+0.217	+22.629	(22.6 -(-0.8))/20 = 117% rec.*
R08	+0.007	+0.180	
R08 +20	+0.214	+22.309	(22.3 - .2)/20 = 111% rec*
S41 DUP.	+0.001	-0.461	
S41 D. +20	+0.207	+21.560	(21.5 (- .5))/20 = 110% rec.
90ZF16R19	+0.010	+0.501	
R19 +20	+0.212	+22.095	(22.1 - .5)/20 = 108% rec.
S62	+0.006	+0.073	
S62 +20	+0.211	+21.988	(21.9 - 0.1)/20 = 109% rec.
~~S64~~	~~-0.003~~	~~-0.889~~	
S64 +20	+0.176	+18.246	(18.2 -(-.9))/20 = 96% rec.
D64	+0.019	+1.463	
D64 +20	+0.214	+22.309	(22.3 - 1.5)/20 = 104 % rec.
~~S64~~ D39 HP SF7035	+0.002	-0.354	
~~S64 +20~~ D39 +20 HP	+0.194	+20.171	(20.2 -(-0.4))/20 = 103% rec.
AQC TV=22.4	+0.226	+23.591	23.6/22.4 = 105 % rec. limit 100±10%
BLK	+0.001	-0.461	limit ≤ 2.00
BLK REG.	+0.008	+0.287	
BLK +20	+0.205	+21.346	(21.3 - .3) /20 = 105 % rec.
90DI07S01 1/3	+0.330	+34.709	X3 = 104.1
S01 1/3 +20	+0.518	+54.806	(54.8 - 34.7)/20 = 101% rec.
S02 1/3	+0.849	+90.190	
S02 1/3 +20	+0.976	+103.766	DO NOT ACCOUNT, OFF THE RANGE
S01 1/4	+0.251	+26.264	X4 = 104.8
S01 1/4 +20	+0.442	+46.682	[illegible]

S39	+0.011	[illegible]	
S39 +20	+0.189	+19.636	(19.6 − .6) /20 = 95% rec.
S40	+0.009	+0.394	
S40 +20	+0.206	+21.453	(21.4 − 0.4) / 20 = 105% rec.
S41	−0.002	−0.782	
S41 +20	+0.217	+22.629	(22.6 − (−0.8)) /20 = 117% rec.*
R08	+0.007	+0.180	
R08 +20	+0.214	+22.309	(22.3 − .2) / 20 = 111% rec*
S41 DUP.	+0.001	−0.461	
S41 D. +20	+0.207	+21.560	(21.5 (− .5)) /20 = 110% rec.
90ZF16R19	+0.010	+0.501	
R19 +20	+0.212	+22.095	(22.1 − .5) / 20 = 108% rec.
S62	+0.006	+0.073	
S62 +20	+0.211	+21.988	(21.9 − 0.1) / 20 = 109% rec.
S64	−0.003	−0.889	
S64 +20	+0.176	+18.246	(18.2 − (−.9)) / 20 = 96% rec.
D64	+0.019	+1.463	
D64 +20	+0.214	+22.309	(22.3 − 1.5) / 20 = 104% rec.
S64	+0.002	−0.354	
S64 +20	+0.194	+20.171	(20.2 − (−0.4)) / 20 = 103% rec.
AQC TV=22.4	+0.226	+23.591	23.6/22.4 = 105% rec. limit 100±10%
BLK	+0.001	−0.461	limit ≤ 2.00
BLK REG.	+0.008	+0.287	
BLK +20	+0.205	+21.346	(21.3 − .3) / 20 = 105% rec.
900I07S01 1/3	+0.330	+34.709	X3 = 104.1
S01 1/3 +20	+0.518	+54.806	(54.8 − 34.7) / 20 = 101% rec.
S02 1/3	+0.849	+90.190	)
S02 1/3 +20	+0.976	+103.766	) DO NOT ACCOUNT, OFF THE RANGE
S01 1/4	+0.251	+26.264	X4 = 104.8
S01 1/4 +20	+0.442	+46.682	(46.7 − 26.2) / 20 = 102% rec.
S02 1/10	+0.272	+28.509	
S02 1/10 +20	+0.452	+47.751	(47.7 − 28.5) / 20 = 96% rec.
BLK DIG.	+0.009	+0.394	
BLK DIG. +20	+0.198	+20.598	(20.5 − 0.4) / 20 = 101% rec.
BLK	+0.007	+0.180	limit ≤ 2.00
AQC TV=22.4	+0.194	+20.171	20.2 / 22.4 = 90% rec. limit 100±10%

JVM

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BEGIN DATA FILE: PB007.DF

Begin Element - PB

0.001
0.000 AZ
0.004
0.100
0.191
0.291
0.375 std cal. curve.
0.219 AQC.
0.008 BIK
-0.001
0.193) 90 FD10 S38
0.011
0.189) S39
0.009
0.206) S40
-0.002
0.217) S41
0.007
0.214) R08
0.001
0.207) S41 Dup.
0.010
0.212) 90ZF16 R19
0.006
0.211) S62
-0.003
0.176) S64
0.019
0.214) D64
0.002
0.194) ~~S64 Dup~~ D39 HP.
0.226 AQC
0.001 BIK.
0.008
0.205) BIK reg.
0.330
0.518] 90OI07 S01 1/3
0.849
0.976) S02 1/3
0.251
0.442] S01 1/4
0.272
0.452] S02 1/10
0.009
0.198) BIK dig.
0.007
0.194) ~~F19 dig~~ BIK AQC. HP.
-0.032
0.000
-0.002 DO NOT ACCOUNT.
0.007
0.001 THE POWER SOURCE IS OFF.

SF 7027 - 7035

Analyst: H. Pham.

3/14/90.

JW
23 Apr 90

* FLAMELESS * CSC VERSION 1.00 *

NAME OF ANALYST ---: JVM 4
DATE OF ANALYSIS --: 04-05-1990
PARAMETER NAME ----: SB
DATA SET # --------: SF7035/SF7027/CD07042

SAMPLE NO.	CONC.	R VALUE	SLOPE	
BLANK	-.9489074	.9998402	.00411	
AQC (BAD)	15.74712	.9978139	4.350001E-03	attempt to make new aqc b
AQC 20	20.43166	.9979192	.00417	102.2%
FD10S38	-.5263158	.9989599	.00475	
~~FD10S39~~	~~1~~	~~1.701412E+38~~	~~1.701412E+38~~	
FD10S39	-.106383	.9995928	4.700001E-03	
FD10D39	-.8879485	.9982923	4.730001E-03	
FD10S40	-.638298	.9986446	.0047	
FD10S41	-.5434783	.9976924	.0046	
FD02R08	-.9785181	.9975766	.00419	
AQC 20	21.65413	.9972037	3.990002E-03	108.3%
ZF16S62 TOT	-.360364	.9981742	6.660001E-03	
ZF16S62 DIG DUP				
	-.4135876	.9981656	.00677	
ZF16S62 SPIKE 1/3				no spike recovery
	6.163233E-02	.9988457	6.490002E-03	
ZF16S64 TOT	-5.789066E-02	.9989816	.00691	
ZF16D64 TOT	-.4006219	.9990826	6.490001E-03	
CD04R01 DIG	2.057425E-02	.9998222	.00486	
CD04S09 DIG	-.3112881	.9842842	2.570001E-03	
AQC 20	21.72841	.9968756	4.049999E-03	108.6%
CD04S09 1/2	-.4729736	.9987241	.00296	
DIG BLK RUN765	-.477179	.9994066	4.820001E-03	
CD04S08 DIG	1.457283	.9968082	3.980001E-03	
CD04S08 DUP	3.224926	.9980447	3.690001E-03	$\frac{25.5-3}{25} = 90\%$
CD04S08 SPIKE	25.53027	.9994766	3.960003E-03	
ZF16R19 DISS	2.100968E-02	.9961299	4.760001E-03	
ZF16S62 DISS	-.2996266	.9991175	.00534	
AQC 20	20.32864	.997847	4.260001E-03	101.6%
ZF16S64 DISS	-.675182	.9987439	.00548	
ZF16D64 DISS	-.5108037	.9985866	.00509	
CD04S08 RPT	2.936295	.9997931	3.609999E-03	
AQC 20	21.22195	.9990864	.00401	106.1%

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BLANK

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.003	-3.900009E-03	-9.000092E-04	23.07711 %
10	.036	3.719999E-02	1.199987E-03	3.225772 %
20	.078	7.829998E-02	2.999827E-04	.3831198 %
30	.12	.1194	-6.000176E-04	-.5025274 %

AQC (BAD)

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.065	6.849997E-02	3.49997E-03	5.109448 %
10	.117	.112	-5.000025E-03	-4.464309 %
20	.156	.1555	-5.000234E-04	-.3215585 %
30	.197	.199	1.999989E-03	1.00502 %

AQC 20

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.083	8.520001E-02	2.200015E-03	2.582177 %
10	.128	.1269	-1.099989E-03	-.8668153 %
20	.173	.1686	-4.39997E-03	-2.609709 %
30	.207	.2103	3.300011E-03	1.569192 %

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FD10S38

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	0	-.0025	-.0025	100 %
10	.041	.045	3.999997E-03	8.888882 %
20	.093	.0925	-5.00001E-04	-.5405416 %
30	.141	.14	-1.000002E-03	-.7142872 %

FD10S39

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	1.701412E+38	1.701412E+38	1 %
0	0	1.701412E+38	1.701412E+38	1 %
0	0	1.701412E+38	1.701412E+38	1 %
0	0	1.701412E+38	1.701412E+38	1 %

FD10S39

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	-.0005	.0005	-100 %
10	.046	4.650001E-02	5.000085E-04	1.075287 %
20	.096	9.350002E-02	-2.499983E-03	-2.673778 %
30	.139	.1405	1.50004E-03	1.067644 %

FD10D39

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	-4.199997E-03	-3.199997E-03	76.19046 %
10	.038	4.310001E-02	5.100012E-03	11.83297 %
20	.091	9.040002E-02	-5.999804E-04	-.663695 %
30	.139	.1377	-1.299977E-03	-.9440648 %

FD10S40

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	-.003	-.002	66.66666 %
10	.043	.044	9.999983E-04	2.272724 %
20	.087	.091	4.000001E-03	4.395605 %
30	.141	.138	-3.000006E-03	-2.173918 %

FD10S41

SPIKE	MEASURED	CALC.	ERROR	PER CENT

0	0	-.0025	-.0025	100 %
10	.038	.0435	.0055	12.64368 %
20	.093	8.949999E-02	-3.500007E-03	-3.910623 %
30	.135	.1355	4.999936E-04	.368999 %

FD02R08

jm 23 Apr 90

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	-4.099991E-03	-3.099991E-03	75.6097 %
10	.035	3.780001E-02	2.800007E-03	7.407423 %
20	.076	7.970001E-02	3.700011E-03	4.642422 %
30	.125	.1216	-3.399998E-03	-2.796051 %

AQC 20

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	9.000001E-02	8.639999E-02	-3.600009E-03	-4.166677 %
10	.121	.1263	5.300008E-03	4.196364 %
20	.166	.1662	2.000332E-04	.1203569 %
30	.208	.2061001	-1.899958E-03	-.9218618 %

ZF16S62 TOT

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.001	-2.400024E-03	-3.400025E-03	141.6663 %
10	.057	6.419998E-02	7.199984E-03	11.21493 %
20	.135	.1308	-4.200012E-03	-3.211018 %
30	.197	.1974	4.000068E-04	.2026377 %

ZF16S62 DIG DUP

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	-2.799988E-03	-1.799988E-03	64.28555 %
10	.066	6.490001E-02	-1.099996E-03	-1.69491 %
20	.125	.1326	7.599995E-03	5.73152 %
30	.205	.2003	-4.700005E-03	-2.346483 %

ZF16S62 SPIKE 1

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	0	3.999939E-04	3.999939E-04	100 %
10	.063	.0653	2.300002E-03	3.522208 %
20	.136	.1302	-5.799994E-03	-4.45468 %
30	.192	.1951	3.100038E-03	1.588948 %

ZF16S64 TOT

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	0	-4.000244E-04	-4.000244E-04	99.99999 %
10	.071	6.869997E-02	-2.300032E-03	-3.347937 %
20	.132	.1378	5.799979E-03	4.208984 %
30	.21	.2069	-3.100008E-03	-1.498312 %

ZF16D64 TOT

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.002	-2.600037E-03	-6.000365E-04	23.078 %
10	.059	6.229997E-02	3.299967E-03	5.2969 %
20	.132	.1272	-4.800022E-03	-3.773603 %
30	.19	.1921	2.099991E-03	1.093176 %

km
23 Apr 90

CD04R01 DIG

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.001	9.999084E-05	-9.000092E-04	-900.0916 %
10	.047	4.869999E-02	1.699988E-03	3.490736 %
20	.098	9.729999E-02	-7.000119E-04	-.7194368 %
30	.146	.1459	-1.000166E-04	-6.855148E-02 %

CD04S09 DIG

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	0	-8.000107E-04	-8.000107E-04	100 %
10	.028	.0249	-3.100004E-03	-12.44982 %
20	.042	5.060001E-02	8.600004E-03	16.99605 %
30	.081	7.630001E-02	-4.69999E-03	-6.159882 %

AQC 20

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.087	8.800003E-02	1.000032E-03	1.136399 %
10	.127	.1285	1.500011E-03	1.167323 %
20	.175	.169	-5.999983E-03	-3.550285 %
30	.206	.2095	3.500015E-03	1.670651 %

CD04S09 1/2

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.003	-1.400002E-03	1.599999E-03	-114.2855 %
10	.031	.0282	-2.800001E-03	-9.929082 %
20	.057	.0578	7.999987E-04	1.384081 %
30	.087	8.739999E-02	3.999993E-04	.4576652 %

DIG BLK RUN765

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	-2.300003E-03	-1.300003E-03	56.5218 %
10	.043	4.590001E-02	2.900005E-03	6.318092 %
20	.096	9.410001E-02	-1.899988E-03	-2.019115 %
30	.142	.1423	3.000051E-04	.2108258 %

CD04S08 DIG

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	8.999999E-03	5.799988E-03	-3.200012E-03	-55.17274 %

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	8.999999E-03	5.799988E-03	-3.200012E-03	-55.17274 %
10	.043	4.559999E-02	2.599988E-03	5.70173 %
20	.081	8.539999E-02	4.399993E-03	5.152217 %
30	.129	.1252	-3.79999E-03	-3.035136 %

CD04S08 DUP

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.011	1.189998E-02	8.999789E-04	7.562861 %
10	.048	4.879999E-02	7.999838E-04	1.639311 %
20	9.000001E-02	8.569999E-02	-4.300013E-03	-5.017519 %
30	.12	.1226	2.599999E-03	2.120717 %

ym
23 Apr 90

CD04S08 SPIKE

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.1	.1010999	1.099944E-03	1.087977 %
10	.143	.1407	-2.300039E-03	-1.634712 %
20	.179	.1803	1.299992E-03	.7210163 %
30	.22	.2199	-9.997189E-05	-4.546243E-02 %

ZF16R19 DISS

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.002	1.000061E-04	2.100006E-03	2099.878 %
10	.047	4.770001E-02	7.000119E-04	1.46753 %
20	.103	9.530002E-02	-7.699982E-03	-8.079727 %
30	.138	.1429	4.900009E-03	3.428977 %

ZF16S62 DISS

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	0	-1.600006E-03	-1.600006E-03	100 %
10	.048	.0518	3.799997E-03	7.335902 %
20	.108	.1052	-2.800003E-03	-2.6616 %
30	.158	.1586	5.999804E-04	.3782979 %

AQC 20

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.084	8.660001E-02	2.600007E-03	3.002317 %
10	.131	.1292	-1.799986E-03	-1.393178 %
20	.176	.1718	-4.199982E-03	-2.444692 %
30	.211	.2144	3.400013E-03	1.585827 %

ZF16S64 DISS

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	-3.699997E-03	-2.699997E-03	72.97295 %
[illegible]	.046	.0511	5.099997E-03	9.980425 %
[illegible]	.108	.1059	-2.100013E-03	-1.983016 %

			2.899997E-03	72.97295 %
			5.099997E-03	9.980425 %
		.1059	-2.100013E-03	-1.983016 %
		.1607	-3.0002E-04	-.1866957 %

jm 28Apr90

ZF16D64 DISS

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	-2.599991E-03	-1.599991E-03	61.53833 %
10	.044	4.830001E-02	4.30001E-03	8.90271 %
20	.103	9.920001E-02	-3.79999E-03	-3.830635 %
30	.149	.1501	1.100019E-03	.7328571 %

CD04S08 RPT

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.01	1.060002E-02	6.000214E-04	5.660568 %
10	.047	4.670002E-02	-2.999827E-04	-.6423611 %
20	.084	8.280001E-02	-1.199991E-03	-1.449264 %
30	.118	.1189	8.999929E-04	.7569327 %

AQC 20

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.084	.0851	1.100004E-03	1.292601 %
10	.128	.1252	-2.800003E-03	-2.236424 %
20	.163	.1653	2.300009E-03	1.391415 %
30	.206	.2054	-5.999804E-04	-.2921034 %

BEGIN DATA FILE: SB404.DF

Begin Element - SB Az off collect data not started untill after AZ

-0.003
0.036
0.078
0.120
blank

0.065
0.117
0.156
0.197
Aac band

0.083
0.128
0.173
0.207
Aac 2°

-0.001 blank cup

-0.000
0.041
0.093
0.141
FD10538

-0.001
0.046
0.096
0.139
S39

-0.001
0.038
0.091
0.139
D39 SF7030

-0.001
0.043
0.087
0.141
S40

0.000
0.038
0.093
0.135
S41

-0.001
0.035
0.076
0.125
FD02Rod

0.090
0.121
0.166
0.208
Aac

-0.004 blank cup

0.001
0.057
0.135
0.197
ZF16562 Digested

-0.001
0.066
0.125
0.205
S62 Pur SF7027

0.000
0.063
0.136
0.192
S62 spike 1/3

0.000
0.071
0.132
0.210
S64

-0.002 B64

JLW
23 Apr 9?

0.059	D64	Digested
0.132		
0.190		
0.001	CD04R01	
0.047		
0.098		
0.146		
0.000	CD04509	CD 7042
0.028		
0.042		
0.081		
0.087	Aac	
0.127		
0.175		
0.206		
-0.000	blank cup	
-0.003	CD04509 2x	Digested
0.031		
0.057		
0.087		
-0.001	Digest blank	run 765
0.043		
0.096		
0.142		
0.009	CD04508	
0.043		
0.081		
0.129		
0.011	508 Dup	
0.048		
0.090		
0.120		
0.100	508 spike	
0.143		
0.179		
0.220		
-0.002	ZF16R19	dissolved
0.047		
0.103		
0.138		
0.000	ZF16562	
0.048		
0.108		
0.158		
0.084	Aac	
0.131		
0.176		
0.211		
-0.002	blank cup	
-0.001	ZF16564	Dissolved
0.046		
0.108		
0.161		
-0.001	ZF16D64	
0.044		
0.103		
0.149		
0.010	CD04508 repeat	
0.047		
0.084		
0.118		
0.084	Aac	
0.128		

JVM
23 Apr 93

0.163
0.206

JVM
23Apr90

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* FLAMELESS * CSC VERSION 1.00 *

NAME OF ANALYST ---: HP
DATE OF ANALYSIS --: 03-27-1990
PARAMETER NAME ----: SE
DATA SET # --------: SF7035

JVM
~3 Apr 90

SAMPLE NO.	CONC.	R VALUE	SLOPE
ADC TV=25.00	22.77029	.9998364	7.399998E-03
90FD02R08	0	.9999402	7.650001E-03
S38	.1666641	.9999999	.006
S39	-.1010124	.9999553	.00792
S40	-.2649006	.9989228	.00755
S41	-.1735026	.9999949	6.339999E-03
D39	-.3855692	.999935	8.039999E-03
S41 DUP.	-.146098	.999468	.00616
ADC TV=25.00	27.63394	.9996952	6.719997E-03

22.77/25 = 91 % rec
limit 100 ± 10%.

27.6 /25 = 110% rec.
limit 100 ± 10%.

110.5% <110 but all samples <2

ADC TV=25.00

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.167	.1685001	1.50007E-03	.8902489 %
10	.244	.2425	-1.499966E-03	-.6185425 %
20	.318	.3165	-1.499981E-03	-.4739276 %
30	.389	.3905	1.500011E-03	.3841256 %

90FD02R08

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.001	0	-.001	-1.701412E+38 %
10	.075	7.650001E-02	1.500003E-03	1.960788 %
20	.153	.153	1.490116E-08	9.739321E-06 %
30	.23	.2295	-4.999936E-04	-.2178621 %

S38

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.001	9.999848E-04	-1.525041E-08	-1.525064E-03 %
10	.061	6.099999E-02	-1.490116E-08	-2.442814E-05 %
20	.121	.121	-7.450581E-09	-6.157505E-06 %
30	.181	.181	0	0 %

S39

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	0	-8.000183E-04	-8.000183E-04	100 %
10	.077	7.839998E-02	1.399979E-03	1.785688 %
20	.158	.1576	-4.000217E-04	-.2538209 %
30	.237	.2368	-2.000183E-04	-8.446719E-02 %

20	.158	.1576	-4.000217E-04	-.2538209 %
30	.237	.2368	-2.000183E-04	-8.446719E-02 %

S40

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	0	-.002	-.002	100 %
10	6.800001E-02	7.350001E-02	5.500004E-03	7.482998 %
20	.154	.149	-4.999995E-03	-3.355702 %
30	.223	.2245	1.499996E-03	.6681495 %

Jun 23 Aug

S41

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.001	-1.100006E-03	-1.00006E-04	9.091404 %
10	.062	6.229998E-02	2.99979E-04	.4815074 %
20	.126	.1257	-3.000349E-04	-.2386913 %
30	.189	.1891	9.997189E-05	5.286722E-02 %

D39

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.002	-3.099976E-03	-1.099976E-03	35.48336 %
10	.076	7.730001E-02	1.300015E-03	1.681778 %
20	.157	.1577	6.99997E-04	.4438789 %
30	.239	.2381	-9.000003E-04	-.3779926 %

S41 DUP.

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.001	-8.999634E-04	-1.899964E-03	211.1157 %
10	.057	6.070004E-02	3.700037E-03	6.095608 %
20	.124	.1223	-1.699962E-03	-1.389993 %
30	.184	.1839	-9.997189E-05	-5.436209E-02 %

AQC TV=25.00

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.187	.1857	-1.299992E-03	-.7000496 %
10	.25	.2529	2.900005E-03	1.1467 %
20	.322	.3201	-1.900047E-03	-.5935793 %
30	.387	.3872999	2.999306E-04	7.744143E-02 %

BEGIN DATA FILE: [illegible]

PEWP024 / SF7035 / 7027 - 7052.

Analyst: H. Pham.

3/27/90.

JVA 23 Apr 90

Begin Event - FE

-0.001	
0.001 AC	
0.001	BIK
0.087	
0.183	
0.308	
0.184	ARC.
0.288	
0.800	
0.871	
0.015	BIK reg.
0.088	
0.17[illegible]	
0.212	
0.118	90OI07S01 1/4
0.183	
0.251	
0.322	
0.108	SO2
0.178	
0.249	
0.307	
0.008	CM16
0.083	R19
0.188	
0.208	
-0.001	S62
0.077	
0.155	
0.244	
0.001	S64
0.071	
0.144	
0.222	
0.001	O64
0.088	
0.151	
0.232	
0.184	ARC
0.287	
0.808	
0.870	
0.001	90FZ02R18
0.085	
0.185	
0.207	
-0.001	FZ11S22
0.054	
0.112	
0.175	
0.001	S23
0.070	
0.145	
0.218	
-0.001	

JVM
23 Apr 90

0.093	S24
0.184	
0.200	
0.001	
0.055	S25
0.118	
0.171	
-0.000	
0.087	D22
0.135	
0.211	
0.000	
0.055	S25 Dup.
0.114	
0.178	
0.149	
0.232	A&C.
0.298	
0.356	
~~0.147~~	
0.199	
0.343	A&C.
0.929	
0.398	
0.187	
0.244	A&C
0.313	
0.388	
0.001	
0.073	F002 R03
0.153	
0.230	
0.001	
0.061	S38
0.121	
0.181	
0.000	
0.077	S39
0.158	
0.237	
-0.000	
0.093	S40
0.154	
0.229	
-0.001	
0.062	S41
0.125	
0.189	
-0.002	
0.075	D39
0.157	
0.239	
0.001	
0.057	S41 Dup.
0.124	
0.184	
0.187	
0.250	A&C.
0.322	
0.387	
0.177	
0.253	
0.325	

0.402	A2C
-0.010 0.025 0.127 0.3[illegible]	90 FZ02 R18
-0.001 0.052 0.138 0.1[illegible]	FZ 11 S22
0.010 0.[illegible] 0.1[illegible] 0.3[illegible]	S23
-0.006 0.053 0.137 0.2[illegible]	S24
0.002 0.[illegible] 0.145 0.215	S25
0.001 0.074 0.188 0.2[illegible]	D22
-0.001 0.072 0.141 0.202	S25 dup.
0.168 0.2[illegible] 0.238 0.370	A2C.
0.010 0.071 0.144 0.310	B1K dig.
0.007 0.071 0.135 0.199	CM16 R19 dig.
0.010 0.092 0.177 0.250	S62
0.007 0.088 0.172 0.259	S64
0.007 0.090 0.176 0.252	D64
0.012 0.095 0.189 0.255	S62 dup.
0.099 0.199 0.243 0.312	S62 spk. 1/4
0.157 0.[illegible]	

JWM
25 Apr 94

0.222

ARC.

0.304
0.352
0.168
0.232
0.293
0.349
0.159
0.227
0.291
0.353
0.008
0.074
0.145
0.216
0.007
0.064
0.105
0.152
0.008
0.074 DO NOT ACCOUNT.
0.150
0.198
0.011
0.055
0.107
0.141
0.010
0.049
0.107
0.190
0.006
0.079
0.154
0.228
0.009
0.059
0.137
0.205
0.153
0.217
0.259
0.337

ARC. is out.

JM
23Apr90

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* FLAMELESS * CSC VERSION 1.00 *

NAME OF ANALYST ---: HP
DATE OF ANALYSIS --: 03-21-1990
PARAMETER NAME ----: TL
DATA SET # --------: SF7035 HP.

JVM 23 Apr 90

SAMPLE NO.	CONC.	R VALUE	SLOPE
BLK	-.2429746	.9990147	.02099 limit ≤ 2.0
AQC TV=25.00	24.82178	.9981907	1.852001E-02 24.8/25 = 99% rec. limit 100 ± 10%
90FD10S38	-.7814751	.995327	6.910001E-03
S39	-.1302495	.9971909	6.910002E-03
S40	-.146098	.9990472	.00616
S41	7.751939E-02	.9984771	6.449999E-03
D39	-.5846762	.9993422	.00496
R08	.4026205	.9998791	.01068
D39 DUP.	.4301042	.9980862	4.650001E-03
AQC TV=25	26	.9976023	.0125 26/25 = 104% rec. limit 100±10

BLK

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.006	-5.100037E-03	-1.110004E-02	217.6462 %
10	.188	.2048	1.679997E-02	8.203113 %
20	.415	.4147	-3.0002E-04	-7.234627E-02 %
30	.63	.6246	-5.400062E-03	-.8645633 %

AQC TV=25.00

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.459	.4596997	6.99699E-04	.1522078 %
10	.656	.6448999	-1.110017E-02	-1.721224 %
20	.81	.8301	2.009994E-02	2.421388 %
30	1.025	1.0153	-9.699941E-03	-.9553768 %

90FD10S38

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.001	-5.399994E-03	-6.399994E-03	118.5186 %
10	.059	6.370001E-02	4.700013E-03	7.378354 %
20	.123	.1328	9.800009E-03	7.379525 %
30	.21	.2019	-8.099958E-03	-4.011866 %

S39

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.002	-9.000244E-04	1.099976E-03	-122.2162 %
10	.065	.0682	3.200002E-03	4.692086 %
20	.147	.1373	-9.699986E-03	-7.064811 %
30	.201	.2064	5.400017E-03	2.616287 %

0	-.002	-9.000244E-04	1.099976E-03	-122.2162 %
10	.065	.0682	3.200002E-03	4.692086 %
20	.147	.1373	-9.699986E-03	-7.064811 %
30	.201	.2064	5.400017E-03	2.616287 %

S40

JVM 23Apr90

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.002	-8.999634E-04	-2.899964E-03	322.2313 %
10	.058	6.070004E-02	2.700038E-03	4.448166 %
20	.119	.1223	3.300034E-03	2.69831 %
30	.187	.1839	-3.099978E-03	-1.685687 %

S41

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.003	.0005	-.0025	-500.0001 %
10	.059	6.499999E-02	5.99999E-03	9.230755 %
20	.134	.1295	-4.500032E-03	-3.474929 %
30	.193	.194	9.999573E-04	.515442 %

D39

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	-.002	-2.899994E-03	-8.999938E-04	31.03433 %
10	.047	4.670001E-02	-2.999902E-04	-.6423771 %
20	.093	9.630001E-02	3.300004E-03	3.426795 %
30	.148	.1459	-2.099991E-03	-1.439336 %

R08

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.004	4.299988E-03	2.999874E-04	6.976471 %
10	.11	.1111	1.100011E-03	.9901089 %
20	.221	.2179	-3.099978E-03	-1.422661 %
30	.323	.3247001	1.700044E-03	.5235736 %

D39 DUP.

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	0	1.999985E-03	1.999985E-03	100 %
10	.049	4.849999E-02	-5.000085E-04	-1.030946 %
20	.1	9.499999E-02	-5.00001E-03	-5.263169 %
30	.138	.1415	3.500015E-03	2.473508 %

AQC TV=25

SPIKE	MEASURED	CALC.	ERROR	PER CENT
0	.329	.325	-4.000008E-03	-1.230772 %
10	.452	.45	-2.000004E-03	-.4444454 %
20	.559	.575	1.599997E-02	2.782604 %
30	.71	.7	-9.999991E-03	-1.42857 %

BEGIN DATA FILE: TL017.DF

CRL 7019

SF 7027 – 7035.

Analyst: H. Pham

3/17/90.

JVM ~3/21/90

Begin Element - TL

0.007
0.000 AZ

0.006
0.188
0.415
0.630 BIK.

0.459
0.656
0.810
1.025 ABC.

0.001
0.059
0.123
0.210 90FD10S38

-0.002
0.055
0.147
0.201 S39

0.002
0.058
0.119
0.187 S40

0.003
0.059
0.134
0.198 S41

-0.002
0.047
0.093
0.148 D39

0.004
0.110
0.221
0.323 R08

-0.000
0.049
0.100
0.138 D39 Dup.

0.329
0.452
0.559
0.710 ABC.

-0.001
0.017
0.049
0.068 90ZF16S62 unfiltered samples.

0.002
0.063
0.130
0.207 S64

-0.005
0.063
0.132
0.187 D64

0.001
0.217
0.435
R19

0.668	R19
-0.000	S64 Dup.
0.059	
0.138	
0.205	
-0.002	S62
0.025	
0.067	
0.088	
0.068	S62 1/2.
0.146	
0.236	
-0.001	
0.484	ADC.
0.677	
0.833	
1.085	
-0.005	90 ZF16 R19
0.178	
0.389	
0.557	
0.002	S62
0.188	
0.371	
0.570	
-0.002	S64
0.055	
0.108	
0.176	
0.001	D64
0.071	
0.133	
0.238	
0.004	S64 Dup'
0.072	
0.135	
0.206	
0.003	D64
0.080	
0.134	
0.173	
0.128	S62 spk. 1/3.
0.190	
0.289	
0.333	
0.478	ADC.
0.703	
0.893	
1.097	
0.000	D64 1/2.
0.084	
0.176	
0.281	
-0.003	D64 Dup 1/2
0.086	
0.187	
0.315	
0.007	90 OI 06 R01
0.094	
0.200	

filtered samples.

filtered samples.

unfiltered sample

JM 27 Apr 90

0.893
1.097] ADC.

0.000
0.084
0.176
0.281] D64 1/2.

-0.003
0.086
0.187
0.315] D64 Dmp 1/2

filtered samples.

JWM
~3 Apr 97

0.007
0.094
0.200
0.265] 900I06 R01

-0.002
0.071
0.168
0.248] S09

0.002
0.059
0.138
0.216] ZF16 S64

-0.007
0.181
0.367
0.541] S09

0.112
0.206
0.253
0.325] S62 spk. 1/3.

0.513
0.725
0.925
1.137] S62 spk. 1/2.

unfiltered samples

0.344
0.473
0.621
0.737] ADC.

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

ATE: APR 05 1990

UBJECT: Review of Region 5 data for Spreker Chem. Co.

ROM: Curtis Ross, Director L. Evangelista for
Region 5 Central Regional Laboratory

O - Data User:

ached are the results for:

CRL Data Set Numbers: SF 7035
Sample Numbers: 90FD10 S38 - S41; D39 + R08
Parameter(s): PCB/Pesticides
Laboratory: CRL

sults 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.

mments by the Quality Control Coordinator:

If there are any questions regarding the data, refer them to ~~Steve Parker~~, Dave Payne - the Quality Control Coordinator, at ~~353-3885~~. 886-1970

ease 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
APR 05 1990
U.S. EPA CENTRAL REGIONAL LAB

ECEIVED BY/DATE: 4/6/90
Comments:

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

APR 0 9 1990

DATE:

SUBJECT: Review of Region 5 data for Trekker Chemical

FROM: Curtis Ross, Director
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF 7035
Sample Numbers: 90 FD10538 - 541 / R08
Parameter(s): CN
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 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)

TRANSMITTED BY
APR 09
U.S. EPA CENTRAL REGIONAL LAB

RECEIVED BY/DATE: 4/10/90

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: APR 24 1990

SUBJECT: Review of Region 5 data for Trekker Chemical Co.

FROM: Curtis Ross, Director
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF 7035
Sample Numbers: 90FD10 538-541, D39, 90FD02R08
Parameter(s): As, Cd, Pb, Sb, Se, Tl
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 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)

TRA[illegible] BY
APR 24 1990
U.S. EPA CENTRAL REGIONAL LAB

RECEIVED BY/DATE: 4/24/90
Comments:

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

MAR 27 1990

DATE:

SUBJECT: Review of Region 5 data for TREKKER CHEMICAL CO.

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

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF 7035
Sample Numbers: 90FD10538-41, D39 and 90FD02R08
Parameter(s): ORGANICS - ABNs
Laboratory: 5SCRL - ESD - USEPA

Results Status:

(✓) DATA ACCEPTABLE FOR USE* Baby
( ) 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 ~~Steve Ryder~~, 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)

TRANSMITTED BY
MAR 27 1990
U.S. EPA CENTRAL REGIONAL LAB

RECEIVED BY/DATE: 3/28/90

Comments:

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: APR 09 1990

SUBJECT: Review of Region 5 data for Trekko Chemical Co.

FROM: Curtis Ross, Director
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF 7035
Sample Numbers: 90FD10538-541, D39, 90FD02R08
Parameter(s): ICP
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 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)

TRANSMITTED BY
APR 09 1990
U.S. EPA CENTRAL
REGIONAL LAB

RECEIVED BY/DATE: 4/10/90
Comments: