

5. PESTICIDE / PCB DATA

A. QC SUMMARY

B. SAMPLE DATA

C. STANDARDS DATA

D. RAW QC DATA

CASE RA789 317 ORGANICS

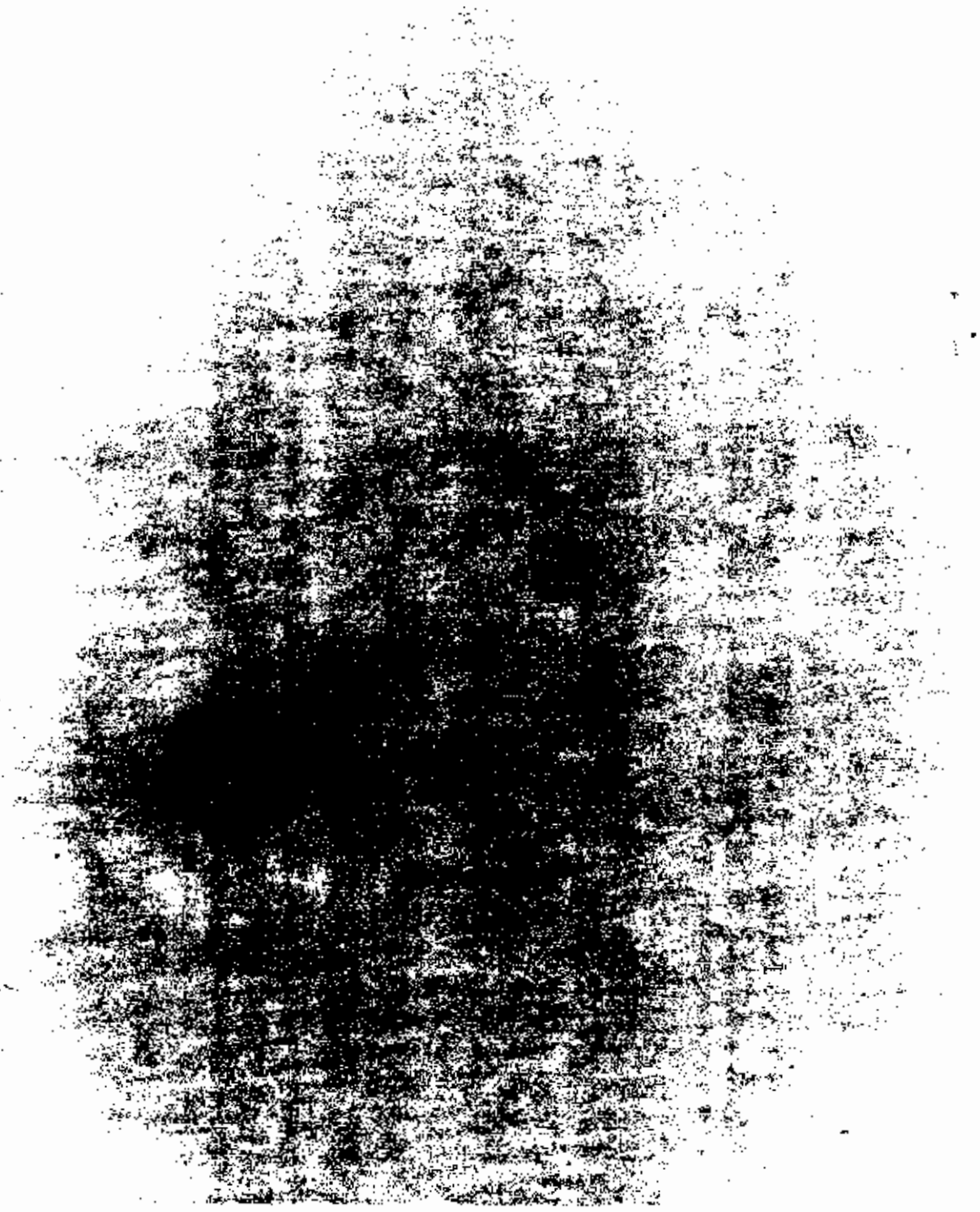
A. QC SUMMARY

(A) QC Summary

- (1) Surrogate Percent Recovery Summary (Form II PEST)**
- (2) Matrix Spike / Matrix Spike Duplicate Summary (Form III PEST)**
- (3) Method Blank Summary (Form IV PEST)**

(If more than a single form is necessary, forms must be arranged in chronological order by date of analysis of the blank)

(1) Surrogate Percent Recovery Summary (Form II PEST)



2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5

	EPA SAMPLE NO.	S1 (DBC) #	OTHER
01	PBLK03	96	0
02	738001-03	100	0
03	738001-06	89	0
04	738001-12	97	0
05	738001-02	126	0
06	738001-01	102	0
07	738001-08	100	0
08	738001-05	99	0
09	PBLK25	98	0
10	738001-15	73	0
11	738001-16	92	0
12	738001-22	84	0
13	738001-25	82	0
14	738001-26	68	0
15	738001-17	51	0
16	738001-18	102	0
17	738001-13	80	0
18	738001-14	64	0
19	738001-21	139	0
20	738001-24	91	0
21	738001-23	78	0
22	PBLK98	96	0
23	738001-01MS	112	0
24	738001-01MSD	64	0
25	738001-10	70	0
26	PBLK19	97	0
27			
28			
29			
30			

ADVISORY
QC LIMITS
(24-154)

S1 (DBC) = Dibutylchloroendate

Column used to flag recovery values

* Values outside of QC limits

D Surrogates diluted out

(2) Matrix Spike / Matrix Spike Duplicate Summary (Form III PEST)



3E
WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix Spike - EPA Sample No.: 738001-01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.200	0.000	0.160	80	56-123
Heptachlor	0.200	0.000	0.180	90	40-131
Aldrin	0.200	0.000	0.180	90	40-120
Dieldrin	0.500	0.000	0.470	94	52-126
Endrin	0.500	0.000	0.480	96	56-121
4,4'-DDT	0.500	0.000	0.360	72	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
gamma-BHC (Lindane)	0.200	0.030	15 *	137 *	15 56-123
Heptachlor	0.200	0.190	95	5	20 40-131
Aldrin	0.200	0.200	100	11	22 40-120
Dieldrin	0.500	0.520	104	10	18 52-126
Endrin	0.500	0.560	112	15	21 56-121
4,4'-DDT	0.500	0.400	80	11	27 38-127

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

* Values outside of QC limits

RPD: 1 out of 6 outside limits
 Spike Recovery: 1 out of 12 outside limits

COMMENTS: _____

(3) Method Blank Summary (Form IV PEST)

(If more than a single form is necessary, forms must be arranged in chronological order by date of analysis of the blank.)

4C
PESTICIDE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Lab Sample ID: 301989 Lab File ID: _____
 Matrix:(soil/water) WATER Level:(low/med) LOW
 Date Extracted: 11/15/89 Extraction: (SepF/Cont/Sonc)SEPF
 Date Analyzed (1): 11/16/89 Date Analyzed (2): 11/17/89
 Time Analyzed (1): 0108 Time Analyzed (2): 1336
 Instrument ID (1): 03 Instrument ID (2): 07
 GC Column ID (1): OV-101 GC Column ID (2): 2250/2401

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	738001-03	301918	11/16/89	
02	738001-06	301939	11/16/89	11/17/89
03	738001-12	301909	11/15/89	11/17/89
04	738001-02	301910	11/15/89	
05	738001-01	301917	11/15/89	
06				
07				
08				
09				
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12				
13				
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21				
22				
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24				
25				
26				

COMMENTS: _____

4C
PESTICIDE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Lab Sample ID: 302880 Lab File ID: _____
 Matrix:(soil/water) WATER Level:(low/med) LOW
 Date Extracted: 11/17/89 Extraction: (SepF/Cont/Sonc)SEPF
 Date Analyzed (1): 11/17/89 Date Analyzed (2): 11/22/89
 Time Analyzed (1): 1749 Time Analyzed (2): 0810
 Instrument ID (1): 01 Instrument ID (2): 12
 GC Column ID (1): 2250/2401 GC Column ID (2): 2250/2401

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	738001-15	302150	11/17/89	
02	738001-16	302154	11/17/89	
03	738001-22	302155	11/17/89	
04	738001-25	302157	11/17/89	
05	738001-26	302156	11/17/89	
06	738001-17	302172	11/18/89	
07	738001-18	302173	11/18/89	
08	738001-13	302174	11/18/89	
09	738001-14	302175	11/18/89	
10	738001-21	302168		11/22/89
11	738001-24	302176		11/22/89
12	738001-23	302182		11/22/89
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

4C
PESTICIDE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Lab Sample ID: 302880 Lab File ID: _____
 Matrix:(soil/water) WATER Level:(low/med) LOW
 Date Extracted: 11/17/89 Extraction: (SepF/Cont/Sonc)SEPF
 Date Analyzed (1): 11/28/89 Date Analyzed (2): _____
 Time Analyzed (1): 2122 Time Analyzed (2): _____
 Instrument ID (1): 22 Instrument ID (2): _____
 GC Column ID (1): OV-101 GC Column ID (2): _____

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	738001-14	302175	11/28/89	
02	738001-24	302176	11/28/89	
03	738001-23	302182	11/29/89	
04				
05				
06				
07				
08				
09				
10				
11				
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13				
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17				
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21				
22				
23				
24				
25				
26				

COMMENTS: _____

4C
PESTICIDE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Lab Sample ID: 303176 Lab File ID: _____
 Matrix: (soil/water) WATER Level: (low/med) LOW
 Date Extracted: 11/17/89 Extraction: (SepF/Cont/Sonc) SEPF
 Date Analyzed (1): 11/21/89 Date Analyzed (2): 12/01/89
 Time Analyzed (1): 2250 Time Analyzed (2): 1442
 Instrument ID (1): 22 Instrument ID (2): 07
 GC Column ID (1): OV-101 GC Column ID (2): 2250/2401

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	738001-08	301922		11/30/89
02	738001-05	301937	12/01/89	11/30/89
03	738001-10	301938	11/21/89	
04				
05				
06				
07				
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COMMENTS: _____

4C
PESTICIDE METHOD BLANK SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Lab Sample ID: 304452 Lab File ID: _____
 Matrix:(soil/water) WATER Level:(low/med) LOW
 Date Extracted: 11/28/89 Extraction: (SepF/Cont/Sonc)SEPF
 Date Analyzed (1): 11/28/99 Date Analyzed (2): _____
 Time Analyzed (1): 0920 Time Analyzed (2): _____
 Instrument ID (1): 22 Instrument ID (2): _____
 GC Column ID (1): OV-101 GC Column ID (2): _____

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	738001-01MS	301926	11/29/89	
02	738001-01MSD	301927	11/29/89	
03				
04				
05				
06				
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COMMENTS: _____

B. SAMPLE DATA

Sample data shall be arranged in packets with the Traffic Report copy, the Organic Analysis Data Sheet (Form I PEST), followed by the raw data for pesticide samples. These sample packets should then be placed in increasing EPA number order, considering both letters and numbers in ordering samples.

. TCL Results - Organic Analysis Data Sheet (Form I PEST)

Tabulated results (identification and quantitation) of the specified target compounds (Exhibit C). The validation and release of these results is authorized by a specific, signed statement in the Case Narrative (reference C.1). In the event that the Laboratory Manager cannot validate all data reported for each sample, the Laboratory Manager shall provide a detailed description of the problems associated with the sample in the Case Narrative.

On Form I PEST, the appropriate concentration units shall be entered. For example, ug/L for water samples or ug/kg for soil/sediment samples. No other units are acceptable. NOTE: Report analytical results to two significant figures for all pesticide/PCB samples.

. Copies of pesticide chromatograms

All chromatograms must be labeled with the following information:

- Sample ID (EPA sample number from Traffic Report) or blank ID
- Volume injected (ul)
- Date and time of injection
- GC column identification (by stationary phase)
- GC instrument identification
- Positively identified compound must be labeled with the names of compounds, either directly out from the peak, or on a print-out if retention times are printed over the peak.

. Copies of pesticide chromatograms for second GC column confirmation Chromatograms to be labeled as in (2) above

GC integration report or data system printout and calibration plots (area vs concentration) for 4,4'-DDT, 4,4'-DDE, 4,4'-DDE or Toxaphene (when appropriate).

. Manual work sheets

. GPC chromatograms (if GPC performed)

If pesticide/PCBs are confirmed by GC/MS, the contractor shall submit copies of raw spectra and copies of background-subtracted mass spectra of target compounds listed in Exhibit C (TCL) that are identified in the sample and corresponding background-subtracted TCL standard mass spectra. Compound names must be clearly marked on all spectra. For multicomponent pesticides/PCBs confirmed GC/MS, the contractor shall submit mass spectra of 3 major peaks of multicomponent compounds from samples and standards.

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-01

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 301917
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/15/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/15/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	<u>Q</u>
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee # 819 on Fri Nov 17, 1989 8:33 am using EPACA 1.51

CompuChem Number: 301917 Case#: 18410 SDG #: 5 EPA#: 738001-01
 Matrix = Water Level = L Compound List = 175

Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

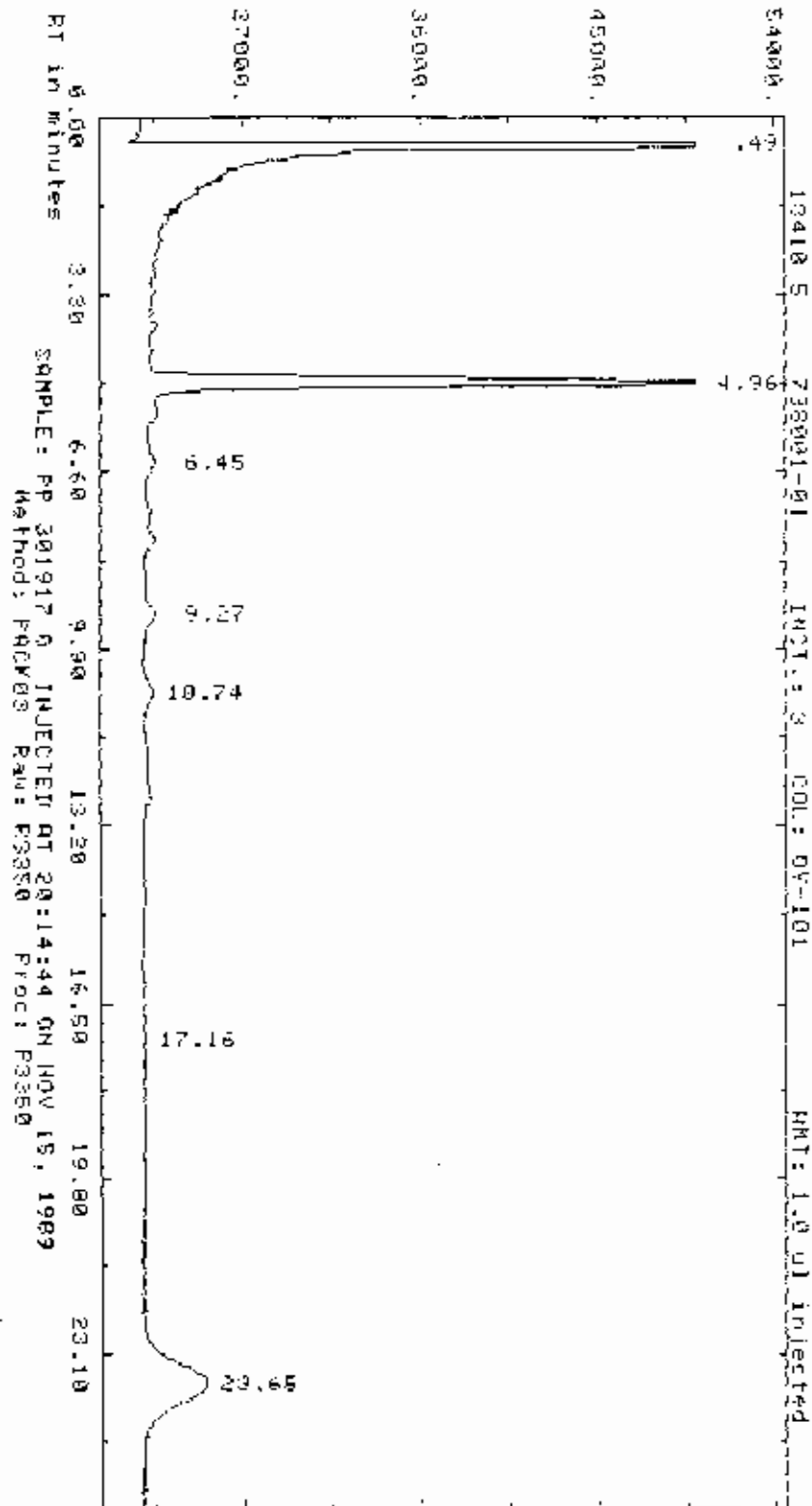
Concentration = $\frac{\text{Sample Area} * \text{Standard Conc} * \text{Multiplication Factor} * \text{Split} * \text{Final Volume} * \text{Dry Weight Factor}}{\text{Standard Area} * \text{Volume or Weight of Sample}}$

File : P3350 Column : OV-101 Multiplication Factor : 5.0 Detection Level Factor : 1.00

Compound	Standard RT window	Standard Area	Standard Conc (ug/ml)	Sample RT	Sample Area	Sample Conc (ug/L)	Sample ng on col	Notes
Aroclor-1254	9.16 - 9.33	712137	0.300	9.27	33455	0.70 (BDU)	0.014093	
OBC	23.45 - 24.41	438416	0.100	23.65	89201	1.02	0.020346	Primary/Reported OAS 101.73 % Recovery

Analyst Comments:

AMPLITUDE 0.25 uV-second (Enlarged) 8.000



Report: 13488.00 Channel: 3 18410 % 750001-01
 Sample: PP 301217 0 Injected on 20 14:44 00 NOV 15, 1989
 ZERO Method: PACK03 Sec: CE433 Subseq/Samp: 1/50 811: 50
 Sl-width MV/Min Delay Filter Gain Search
 .500 300 0.00 3000 6000
 Sup-Bank Det ID-Lvl Ref RTM RTU 2011-0 Iso
 MC 0.00 0 1.30 0.0 500.00 80

Actual run time: 25 068 minutes

Ended not on baseline

RT	ITM	Factor	Area	Area %	Name
.39	0.00	.10000E+01	454174.	88	320.631
4.96	0.00	.10000E+01	161830.	88	106.968
6.15	0.00	.10000E+01	3259.	88	3.476
9.27	0.00	.10000E+01	6596.	88	4.360
10.74	0.00	.10000E+01	6333.	88	4.186
17.16	0.00	.10000E+01	3054.	88	2.012
23.65	0.00	.10000E+01	69200.	88	58.950
Total Area = 756447			Total AREA % = 89299.500		
Processed data file: 03350			Raw data file: R3350		

REPORT: 13488.11 CHANNEL: 3

SAMPLE: PP 301917 0 INJECTED AT 20:14:44 ON NOV 15, 1989

ESTD METHOD: ARS433 SEQ: SEQ33 SUBSQ/SAMP: 1/ 50 BTL: 50

SL-WIDTH MV/MIN DELAY MIN-RR BUNCH
.500 .300 0.00 1000 AUTO

SUP-LNK DVT ID-LVL REF-RTW %RTW %DIL-F I
YES 0.00 2 .500 5.000 500.00 NO

ACTUAL RUN TIME: 25.000 MINUTES

ENDED NOT ON BL

RT	ITM	FACTOR	AREA	RATIO	NAME
3.89			36440 **	4.137	+ARS433
TOTAL AREA = 773030 * TOTAL RATIO = 3583252.45					

SUMMED PEAK COMPONENTS

RT	ITM	FACTOR	AREA	RATIO	NAME
3.89	3.91	3.2635E- 5	1670 98	.256	+ARS433
5.53	5.61	1.1719E- 5	2103 88	.123	+ARS433
6.45	6.49	9.0396E- 6	5259 98	.239	+ARS433
7.41	7.41	1.6208E- 5	1431 86	.115	+ARS433
7.86	7.66	3.2920E- 5	2873 98	.472	+ARS433
9.27	9.44	7.9195E- 5	6526 88	.250	+ARS433
10.74	10.97	8.0078E- 5	6333 88	.254	+ARS433
11.94	11.97	1.3940E- 4	1554 88	1.083	+ARS433
12.55	13.07	6.5454E- 6	2294 88	.098	+ARS433
14.47	14.99	2.5903E- 5	1540 88	.199	+ARS433
17.16	17.84	3.5097E- 5	3054 88	.536	+ARS433
19.61	20.08	5.6000E- 5	1834 98	.504	+ARS433

PROCESSED DATA FILE: Q3350 RAW DATA FILE: R3350

PASS 1

MEAN = .365522 STD DEV = .267044 REL STD DEV = .730581 N=11
SUM OF STANDARD AREAS = 219311 SUM OF SAMPLE AREAS = 35000.9

RT	ITM	AREA	RATIO	NAME
3.8071	3.9078	1569.94	.256173	+ARS433
5.52917	5.6097	2102.94	.123223	+ARS433
6.44762	6.48997	5259.37	.237713	+ARS433
7.86193	7.66371	2872.94	.471568	+ARS433
9.26578	9.43611	6595.75	.257844	+ARS433
10.7402	10.9698	6332.75	.253558	+ARS433
12.5452	13.0697	2293.82	9.79993E-02	+ARS433
14.4694	14.9919	1539.75	.199421	+ARS433
17.165	17.8356	3054.25	.535979	+ARS433
19.6098	20.0813	1834	.504421	+ARS433

PASS 2

MEAN = .365522 STD DEV = .267044 REL STD DEV = .730581 N=11

SLM OF STANDARD AREA

DONE

LAB INSTRUCTIONS:

INORGANIC GET J DELIVERABLES. BILL AND SHIP AS CASE
CASE NO. RA 789 SDG 317. PLEASE PRESERVE METALS IN-HOUSE

WORKSHEETS
RECEIPT DATE 11/14/89

CASE # ^{18410.5} ~~18410.5~~ COMPUchem # 3019170E

Sample Prep Code--- -55
Instrument Code-----144
Compound List-----499
Surrogate Std-----395

GC/ECD; PEST/PCB; WATER SOW 2/88

ORIGINAL

SAMPLE ID# T38001-01
Blank Associated with Case _____
Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 mlx

portion of Vol. in pesticide _____

ANALYSIS INFORMATION: COMMENTS Send to QA
 GA Approved
Inst. # / Date Sequence Dil. Fact. Need GC/MS Confirmation
15 3 33 5 BDL

Analyst: 201189 Date 11/16/89

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 102 X Recovery
AREA IN STD

X Recovery X 0.1 ug/ml = _____ ug/ml

- +EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.
- JA = reinject acceptable
- QA = repeat confirmed original results
- OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+= OK
- NS = insufficient sample for repeat
- DL = DBC low ((20% Recovery)
- DA = Dilution Acceptable
- BF = Blank Requires Florisil
- CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

QANA QAN3 GA notice included.

SAMPLE DISPOSITION Code

- Complete.....
- Requires Re-extraction.. -55
- Requires cleanup..... 901

Audited By _____ Date _____

ASSIGNED TO David Williams
 EMPLOYER ID # 1777

COMPUCHEN LABORATORIES
 EXTRACTION WORKSHEET
 EPR LOW LEVEL PESTICIDE WATER

DATE EXTRACTED/POSTED 11-15-85

CASE # 18410.5

-055

QUEUE # 10

(2-88) RCU

SAMPLE NUMBER	EPR ID #	DC TYPE	SAMPLE ORIG #	SAMPLE VOLUME	FLUORINE START VOL.	FINAL VOL.	COMMENTS
1	301926	SS	301917	500	1.0	5.0	Use 500ul sample vol. for SS only. Add 0.5ml surf. Add 50ul spike. cont. to 5.0ml final volume.
2	301927	SS	301917	500	1.0	5.0	
3	301928	BS		1000	1.0	10.0	
4	301909			1000	1.0	10.0	
5	301910			1000	1.0	10.0	
6	301917			1000	1.0	10.0	
7	301918			1000	1.0	10.0	
8	301922			1000	1.0	10.0	
9	301937			1000	1.0	10.0	
10	301938			1000	1.0	10.0	
11	301939			1000	1.0	10.0	
12							
13	BLANK BLK			1.0	1.0	1.0	LOT # 30391 AMOUNT 1.0 ML # 50
14							
15							
16							
17							
18							
19							
20							
21	301989	PBLK 03		1000	1.0	10.0	
22	301990	PBLK 04		1000	1.0	10.0	

SURE 395 1 ML 30412
 SPIKE 4016 100 UL 30313
 RUMOUNT LOT
 CHECKED AND VERIFIED 11/15/85 (GC LAB)
 CRSE DONE (GC LAB)

FLUORINE BATCH # 11-5-79



REC'D GC 11-15-85
 AUTO. COUNTER 718 / 41
 MANUAL COUNTER 735 / 505

COMPOUND LIST NO. - 499

COMPUCHEM # 301917 DATE
 IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA 504 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ /5 = 1.0
 AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----		0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I -----		0.050
12.	0712	ENDOSULFAN II -----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-02

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 301910
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LQW Date Received: 11/14/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/15/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/15/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	<u>UG/L</u>
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM 1 PEST

1787 Rev.

Analysis Worksheet

By employee #1221 on Thu Nov 16, 1989 10:13 pm using EPACA 1.51

CompuChem Number:301910 Case#:18410 SDG #:5 EPA#:738001-02
 Matrix = Water Level = L Compound List = 175

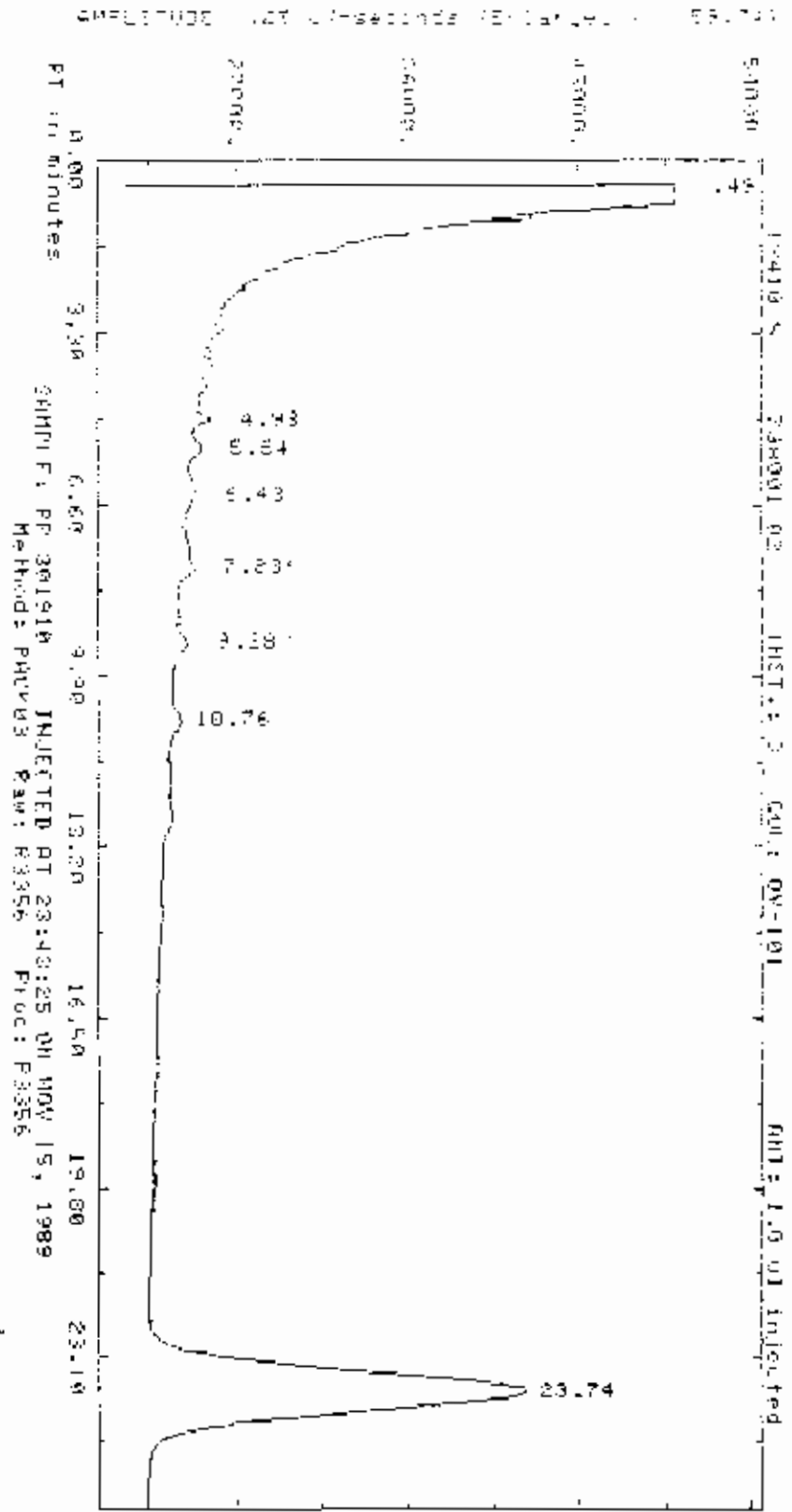
Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} \times \text{Standard Conc} \times \text{Multiplication Factor} \times \text{Split} \times \text{Final Volume} \times \text{Dry Weight Factor}}{\text{Standard Area} \times \text{Volume or Weight of Sample}}$

File : P3356 Column : OV-101 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Compound	Standard RT window	Standard Area	Standard Conc(ug/ml)	Sample RT	Sample Area	Sample Conc(ug/L)	Sample ng on col
Dieldrin	7.56 - 7.87	109688	0.020	7.83	10818	0.02 (BDL)	0.001973
Aroclor-1254	9.16 - 9.53	127902	0.300	9.28	5859	0.14 (BDL)	0.013696
OBC	23.45 - 24.41	438416	0.100	23.74	550344	1.26	0.125530

Analyst Comments:



Report: 13424 11 Channel: 3 Level: 5 Method: 000000
 Sample: BP 301910 Injection: 10.234125 00 000 10.1.02
 FID Method: P00003 Inj: 0.1073 Sample Temp: 1.55 1.1.00
 Sl-width: 500 MV/Min: 0.300 Delay: 0.00 0.000 0.000
 Sub-Dir: NO Int: 0.00 [T-1.0] 0.00 0.00 0.00 0.00
 NO 0.00 0.00 0.00 0.00 0.00 0.00

Actual run time: 26.017 minutes

Reading(s) missed
 Ended not on baseline

RT	TH	Factor	Area	Area %	Time
1.49	0.00	1.0000E+01	5202900.	89.511	
4.99	0.00	1.0000E+01	4135	0.071	
5.54	0.00	1.0000E+01	4545	0.080	
6.43	0.00	1.0000E+01	2502	0.042	
7.83	0.00	1.0000E+01	10318.	1.737	
9.28	0.00	1.0000E+01	5318	0.091	
11.76	0.00	1.0000E+01	2509	0.042	
23.74	0.00	1.0000E+01	570343	9.191	

Total Area = 5798224 Total Area % = 99.643.500

Processed data file: P3756 Raw data file: R3756

LAB INSTRUCTIONS:

INORGANICS GET J DELIVERABLES. BILL AND SHIP AS CASE
CASE NO. RA 789 SDG 317. PLEASE PRESERVE METALS IN-HOUSE

WORKSHEETS

CASE # ^{15410.5} ~~104~~ COMPUCHEM # 301910UE

RECEIPT DATE 11/14/89

Sample Prep Code--- -55
Instrument Code-----144
Compound List-----499
Surrogate Std-----395

GC/ECD; PEST/PCB; WATER SOW 2/88

=====

SAMPLE ID# 738001-02
Blank Associated with Case _____
Associated Blank _____

=====

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 ml

portion of Vol. in pesticide _____

=====

ANALYSIS INFORMATION: COMMENTS Send to QA
 GA Approved
 Need GC/MS Confirmation

Inst. # / Date Sequence Dil. Fact.

11/15 3 33 1 LOL

Analyst 102/819 Date 11/15/89

=====

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 126 % Recovery
AREA IN STD _____

X Recovery X 0.1 ug/ml = _____ ug/ml

=====

+EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE
JA = reinject acceptable FROM REPEAT REQUEST FORM IN BOX.
GA = repeat confirmed original results
OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+ = OK
NS = insufficient sample for repeat
DL = DBC low ((20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

GANA GANJ GA notice included.

=====

SAMPLE DISPOSITION Code

Complete.....
 Requires Re-extraction.. -55
 Requires cleanup..... 901

=====

Audited By _____ Date _____

ASSIGNED TO David Williams
 EMPLOYEE ID # 18910.5

COMPUCHER LABORATORIES
 EXTRACTION WORKSHEET
 EPR LOW LEVEL PESTICIDE WRITER

DATE EXTRACTED/POSTED 11-15-89

CRSE # 18910.5 -955 QUEUE # 10 (2-88) Rows

SAMPLE NUMBER	EPR ID #	QC TYPE	SAMPLE ORIG #	SAMPLE VOLUME	ALUMINUM START VOL.	FINPL VOL.	COMMENTS
1	301926	SS	301917	500	1.0	6.0	Use 500ul sample vol. for SS only. Add 0.5ul surr.
2	301927	SS	301917	500	1.0	5.0	Add 50ul water. Conc. to 5.0ul final volume.
3	301928	BS		1000	1.0	10.0	718/441 USE. 301909, 917, 918, 937, 939, 698, 905
4	301909		738001-12	1000	1.0	10.0	
5	301910		738001-02	1000	1.0	10.0	
6	301917		738001-07	1000	1.0	10.0	
7	301918		738001-03	1000	1.0	10.0	
8	301922		738001-08	1000	1.0	10.0	
9	301937		738001-05	1000	1.0	10.0	
10	301938		738001-10	1000	1.0	10.0	
11	301939		738001-06	1000	1.0	10.0	
12							
13	ALUMINUM BLK				1.0	1.0	LOT# 30391 AMOUNT 1.0 ml # 50
14							
15							
16							
17							
18							
19							
20							
21	301989	BLNK 03	BLNK	1000	1.0	10.0	
22	301990	BLNK 04	BLNK	1000	1.0	10.0	

SURR 395 1 ML 30412
 SPIKE 4016 100 UL 30313
 ALUMINUM BATCH # 11-3-89
 CHECKED AND VERIFIED 11/15/89 (GC LAB)
 CRSE DONE (GC LAB)
 AUTO. COUNTER 718/441
 MANUAL COUNTER 735/505



COMPOUND LIST NO. - 499

COMPUCHEM # 301910 DATE
IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA 504 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ /5 = 1.0
AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----		0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I -----		0.050
12.	0712	ENDOSULFAN II -----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	07E0	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

Box

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-03

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 301918
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/15/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/16/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1221 on Thu Nov 16, 1989 10:14 pm using EPACA 1.51

CompuChem Number: 301918 Case #: 18410 SDG #: 5 EPA #: 738001-03
 Matrix = Water Level = L Compound List = 175

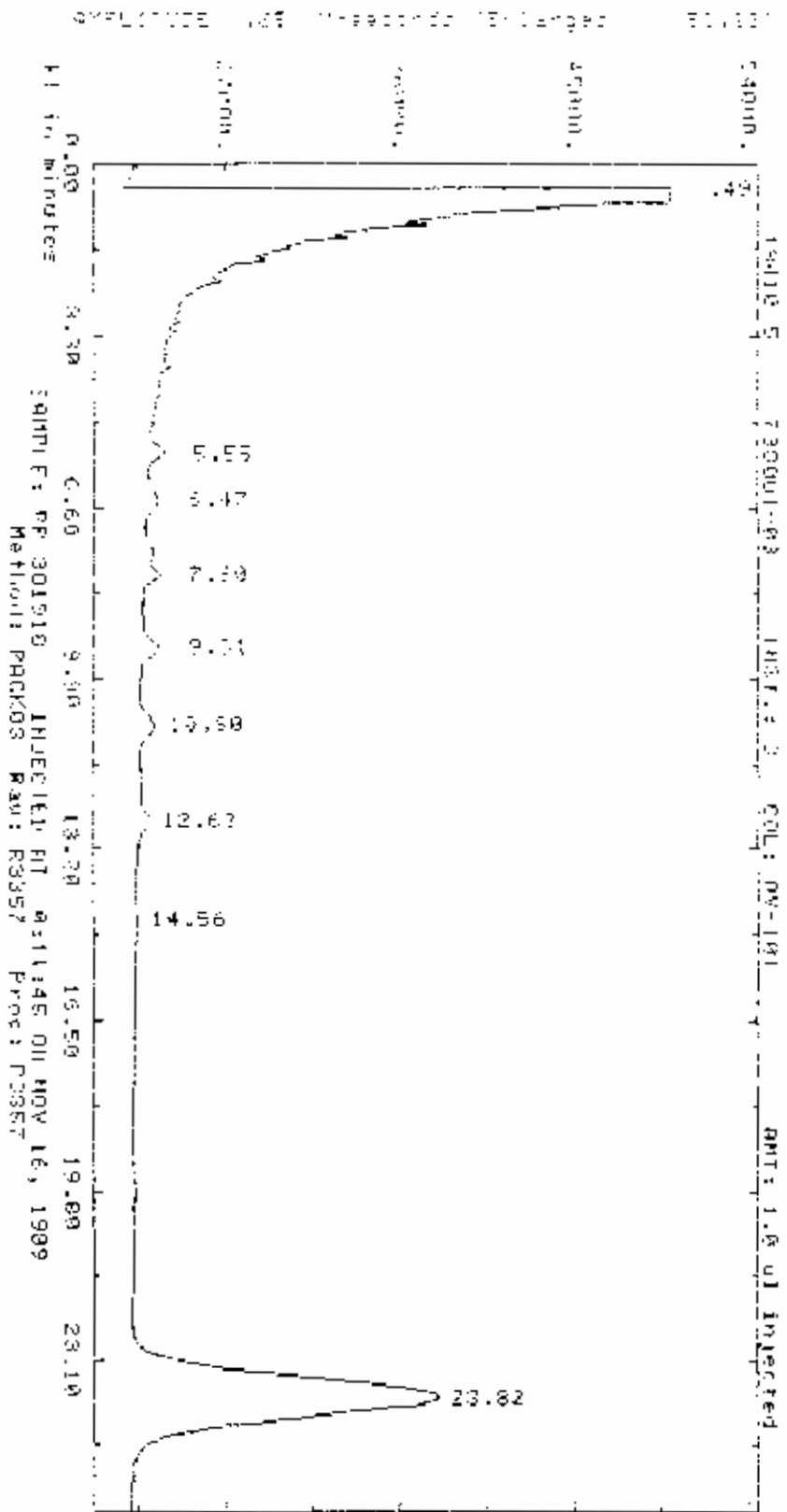
Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 mL Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} \times \text{Standard Conc} \times \text{Multiplication Factor} \times \text{Split} \times \text{Final Volume} \times \text{Dry Weight Factor}}{\text{Standard Area} \times \text{Volume or Weight of Sample}}$

File : P3357 Column : OV-101 Multiplication Factor : 1.0 Detection Level Factor : 1.00

	Standard RT window - 9.16 - 9.33	Sample RT - 9.31	
Aroclor-1254	Standard Area - 127908	Sample Area - 10651	
	Standard Conc(ug/ml) - 0.300	Sample Conc(ug/L) - 0.25 (BDL)	
		Sample ng on col - 0.024982	
	Standard RT window - 23.49 - 24.41	Sample RT - 23.82	Primary/Reported GMS
DIC	Standard Area - 438616	Sample Area - 440619	
	Standard Conc(ug/ml) - 0.100	Sample Conc(ug/L) - 1.00	100.46 % Recovery
		Sample ng on col - 0.100457	

Analyst Comments:



Report: 13405.DR - Chloroform - 3/13/97 - 13586111
 Sample: RA-304918 - Injection #1 - 11/22/95 - 14.500000000000000
 Method: PAK013 - Run: 01113 - Sample Name: 14.500000000000000
 Retention: 10.800000000000000 - Date: 03/13/97 - 10.800000000000000
 5.550000000000000 - 1.000000000000000
 6.470000000000000 - 0.000000000000000
 7.790000000000000 - 0.000000000000000
 9.310000000000000 - 0.000000000000000
 10.800000000000000 - 0.000000000000000
 12.670000000000000 - 0.000000000000000
 14.540000000000000 - 1.000000000000000
 23.820000000000000 - 0.000000000000000
 Std Dev: 0.00 - 10.000000000000000 - Ref: STD - 10.800000000000000 - 10.800000000000000 - 10.800000000000000 - 10.800000000000000

Actual run time: 24.000 minutes
 0.000 not on baseline

RT	ITM	Factor	Area	AREA %	Name
4.9	0.00	1.0000E+01	413481.7	85	09-101
5.55	1.00	1.0000E+01	5793.88	.145	
6.47	0.00	1.0000E+01	8359.88	.180	
7.79	0.00	1.0000E+01	3035.88	.083	
9.31	0.00	1.0000E+01	10451.88	.230	
10.80	0.00	1.0000E+01	10000.88	.236	
12.67	0.00	1.0000E+01	3875.88	.100	
14.54	1.00	1.0000E+01	3230.88	.082	
23.82	0.00	1.0000E+01	143418.88	9.505	
Total Area =		4433956	Total AREA % =		440413.000
Processed data file: P3357			Raw data file: 33357		

LAB INSTRUCTIONS:

INORGANICS GET 3 DELIVERABLES. BILL AND SHIP AS CASE
CASE NO. RA 789 606 317. PLEASE PRESERVE METALS IN-HOUSE

WORKSHEETS
RECEIPT DATE 11/14/89

CASE # ^{18410.5} ~~1841~~ COMPUchem # 301918UE
Sample Prep Code--- -55
Instrument Code-----144
Compound List-----499
Surrogate Std-----395

GC/ECD; PEST/PCB; WATER SOW 2/88

=====

SAMPLE ID# T38001-03
Blank Associated with Case _____
Associated Blank _____

=====

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 ml
portion of Vol. in pesticide _____

=====

ANALYSIS INFORMATION: COMMENTS | | Send to QA
| | QA Approved
| | Need GC/MS Confirmation

Inst. # /
Date Sequence Oil. Fact. PDC

1/10 3 33 1 MT 11/14/89

Analyst 122/879 Date 11/16/89

=====

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 100 X Recovery
AREA IN STD

X Recovery X 0.1 ug/ml = _____ ug/ml

- =====
- +EA = re-extract acceptable
 - JA = reinject acceptable
 - QA = repeat confirmed original results
 - OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+= OK
 - NS = insufficient sample for repeat
 - DL = DBC low ((20% Recovery)
 - DA = Dilution Acceptable
 - BF = Blank Requires Florisil
 - CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

QANA QANS QA notice included.

=====

SAMPLE DISPOSITION Code

- Complete.....
- Requires Re-extraction.. -55
- Requires cleanup..... 901

=====

Audited By _____ Date _____

ASSIGNED TO Angie Williams
 EMPLOYEE ID # 1177

COMPUCHEM LABORATORIES
 EXTRACTIION WORKSHEET
 EPR LOW LEVEL PESTICIDE WRITER

DATE EXTRACTED/POSTED 11-15-85

CRASE # 184105

-Q55

QUEUE # 10

(2-88) Revs

SAMPLE NUMBER	EPR ID #	DC TYPE	SAMPLE ORIG #	SAMPLE VOLUME	ALUMINA START VOL	FINAL VUL.	COMMENTS
1	301926	SS	301912	500	1.0	5.0	Use 500ul sample vol. for SS only. Add 0.5ul surr.
2	301927	SS	301912	500	1.0	5.0	Add 50ul spiker. Conc. to 5.0ml final volume.
3	301928	BS		1000	1.0	10.0	718/441 USE. 301909, 917, 918, 937, 939, 608, 609
4	301909			1000	1.0	10.0	
5	301910			1000	1.0	10.0	
6	301917			1000	1.0	10.0	
7	301918			1000	1.0	10.0	
8	301922			1000	1.0	10.0	
9	301937			1000	1.0	10.0	
10	301938			1000	1.0	10.0	
11	301939			1000	1.0	10.0	
12							
13	BLANK BLK			1.0	1.0	1.0	LOT # 30591 AMOUNT 1.0 ML # 50
14							
15							
16							
17							
18							
19							
20	301989	BLK 03		1000	1.0	10.0	
21	301990	BLK 04		1000	1.0	10.0	
22							

* AMOUNT LOT
 SURR 395 1 ML 30412
 SPIKE 4016 100 UL 30313

CHECKED AND VERIFIED 11/15/85 (GC LAB)
 CRASE DOME 11-3-89 (GC LAB)



RECD GC 11-15-85
 Rec'd in Nov 85
 Date 12 Dec 89
 AUTO. COUNTER 718/441
 MANUAL COUNTER 735/505

COMPOUND LIST NO. - 499

COMPUCHEM # 301918 DATE
IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA SOW 2/88

DIL FACT _____ DRY WT _____ 1.0_SPLIT _____ FINAL VOL _____ /5 = 1.0
AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----	BCL	0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I-----		0.050
12.	0712	ENDOSULFAN II-----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-05

Lab Name: COMPUCHEM LABORATORIES Contract: (2-881-REVS)
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 301937
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/30/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	<u>Q</u>
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1221 on Sat Dec 2, 1989 3:14 pm using EPACA 1.51

CompuChem Number: 301937 Case#: 18410 SDG #: 5 EPA#: 738001-05
 Matrix = Water Level = L Compound List = 175

Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 mL Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} \times \text{Standard Conc} \times \text{Multiplication Factor} \times \text{Split} \times \text{Final Volume} \times \text{Dry Weight Factor}}{\text{Standard Area} \times \text{Volume or Weight of Sample}}$

File : P7827 Column : 2250/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

4,4'-DDE	Standard RT window - 7.20 - 7.49	Standard Area - 293475	Standard Conc(ug/mL) - 0.020	Sample RT - 7.22	Sample Area - 980895	Sample Conc(ug/L) - 0.67	Sample ng on col - 0.066847
DBC	Standard RT window - 20.24 - 21.07	Standard Area - 1207364	Standard Conc(ug/mL) - 0.100	Sample RT - 20.71	Sample Area - 1281045	Sample Conc(ug/L) - 1.06	Sample ng on col - 0.106103

106.10 % Recovery

File : P22816 Column : OV-101 Multiplication Factor : 1.0 Detection Level Factor : 1.00

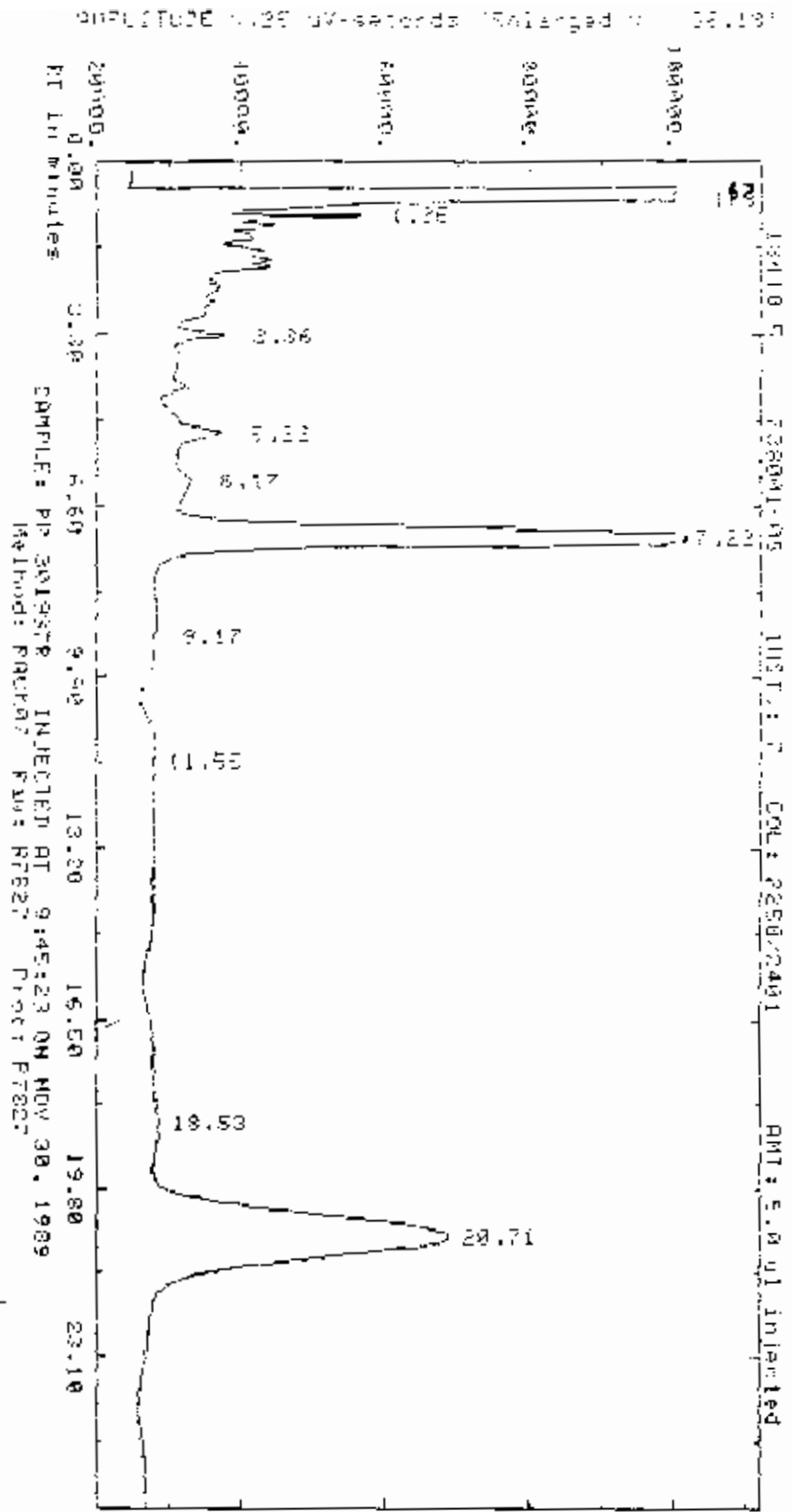
DBC	Standard RT window - 22.07 - 22.97	Standard Area - 604768	Standard Conc(ug/mL) - 0.100	Sample RT - 22.61	Sample Area - 600644	Sample Conc(ug/L) - 0.99	Sample ng on col - 0.099318
-----	------------------------------------	------------------------	------------------------------	-------------------	----------------------	--------------------------	-----------------------------

99.32 % Recovery

Analyst Comments:

4,4'-DDE did NOT confirm on sequence 228.

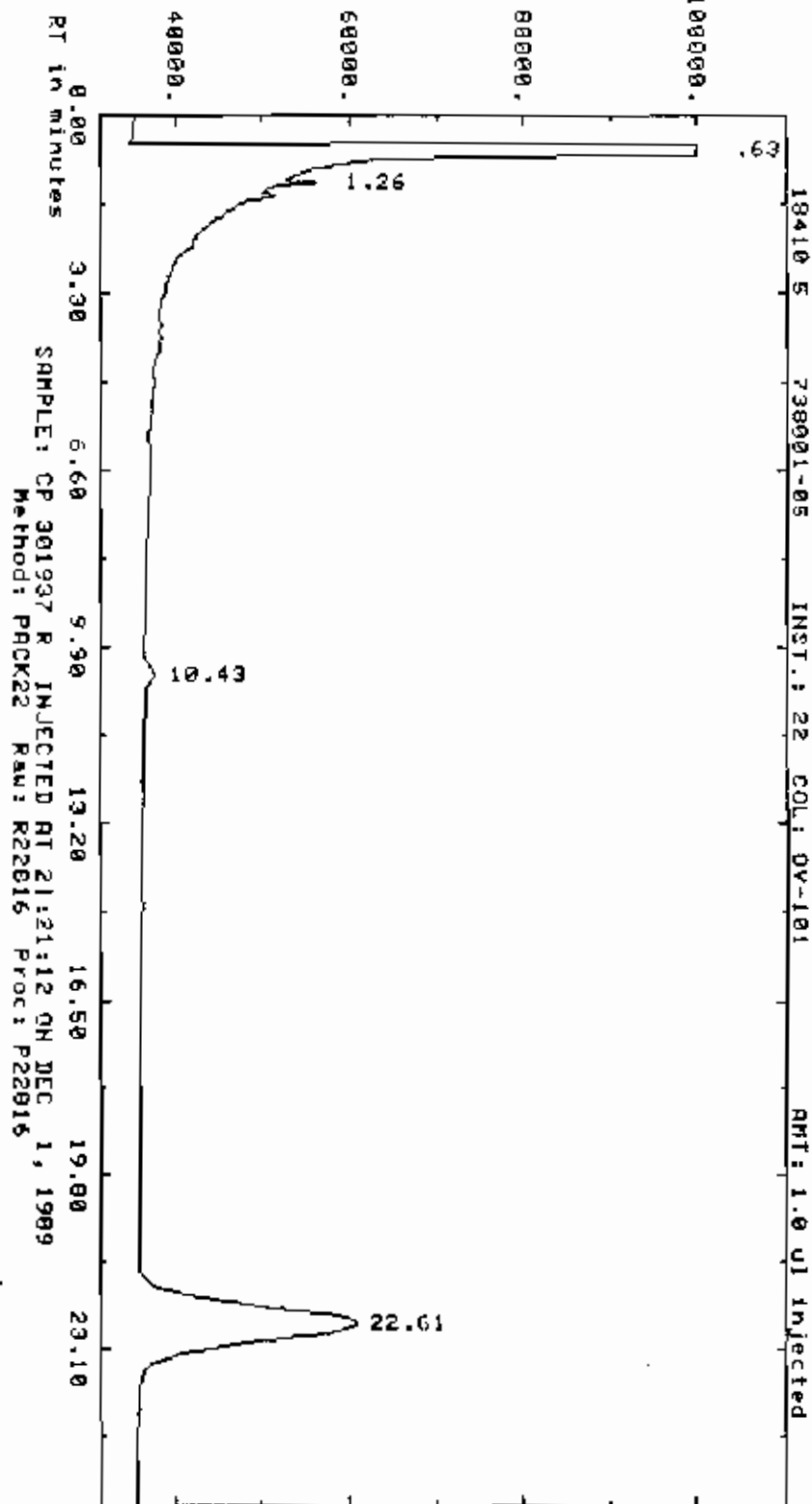
CEE
12/02/89



Report 19812 PP Channel 7 10412 5 0001-05
 Sample: PP 3019378 Injected at 9 45 33 on 05/ 30, 1989
 ZFPD Method: PAK607 Seq: 30078 S Amp: 750p 1.25 812 7.
 Sl-Width HV/Min Delay 0.00 0.0000 0.00
 .500 .300
 Slo-Hsk 0.00 10-Lo1 20-RTM 30TU 30-1-1 100 30 100
 80 0.00 0 30 5.2 100 30 80
 Actual run time: 26.008 minutes

RT	ITM	Factor	Area	AREA %	Range
0.77	0.00	1.0000E+04	1061.050	2.9	20 517
1.43	0.00	1.0000E+04	2789.13	5.9	7.515
1.73	0.00	1.0000E+04	351.78	0.9	2.120
1.17	0.00	1.0000E+04	3832.6	10.0	200
3.34	0.00	1.0000E+04	210.17	0.6	1.771
5.22	0.00	1.0000E+04	740.78	2.0	1.507
6.17	0.00	1.0000E+04	2576.1	7.0	1.554
7.22	0.00	1.0000E+04	9509.95	25.5	24.253
9.17	0.00	1.0000E+04	2138.6	5.8	1.519
11.55	0.00	1.0000E+04	2161.0	5.9	1.526
18.53	0.00	1.0000E+04	716.22	1.9	1.323
20.71	0.00	1.0000E+04	12010.44	32.6	32.640
Total Area =		39247.65	Total AREA % =		100.000
Processed data file: P7827			Raw data file: R7827		

AMPLITUDE x.25 uV-seconds (Enlarged x 28.90)



Report: 1778.00 Channel: 22 10410 5 738001-05
 Sample: CP 301937 R Injected at 21:21:12 ON DEC 1, 1989
 ZERO Method: PACK22 Seq: SEQ228 Subsq/Samp: 1/16 Rt1: 16
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DuT ID-Lvl Ref-RTW XRTW XDil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.63	0.00	.10000E+01	7190650.	92.072	BS
1.26	0.00	.10000E+01	7052.	.090	BB
10.43	0.00	.10000E+01	11473.	.147	BB
22.61	0.00	.10000E+01	600644.	7.691	BF
Total Area =		7809820.	Total AREA % =		600644.000
Processed data file: P22816			Raw data file: R22816		

LAB INSTRUCTIONS:
PESTICIDES
WORKSHEET
RECEIPT DATE

CASE # 184105 SAS: DATE DUE:
CPE COMPUCHEM # 301937R
12/01/89

Sample Prep Code--- -55
Instrument Code----144
Compound List-----499
Surrogate Std-----395

LOW LEVEL WATER, EPA SQW 2/88

===== SDG:05 EPA# 798001-25 =====
Blank Associated with Case _____
Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 ml

portion of Vol. in pesticide _____

===== ANALYSIS INFORMATION: COMMENTS Send to QA

Inst. # / Date Sequence Dil. Fact. QA Approved

1/30 7 78 1 BOL Need GC/MS Confirmation

1/1 22 228 1

Analyst 1221 Date 12/2/89

===== SURROGATE INFORMATION DIBUTYL CHLDRDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 99 X Recovery
AREA IN STD

% Recovery X 0.1 ug/ml = _____ ug/ml

- +EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.
 - JA = reinject acceptable
 - QA = repeat confirmed original results
 - DK = original data acceptable (not for REPEATS) FINAL STATUS CODE = EA
 - NS = insufficient sample for repeat
 - DL = DBC low ((20% Recovery)
 - DA = Dilution Acceptable
 - BF = Blank Requires Floriell
 - CT = Contamination Suspected
- IF MULTIPLE PACKAGES EXIST, REPRT THIS DATA: _____

QANA QAN3 QA notice included.

===== SAMPLE DISPDISITION Code

- Complete.....
- Requires Re-extraction.. -55
- Requires cleanup..... 901

===== Audited By _____ Date _____

ASSIGNED TO *Dr. ...*
 EMPLOYEE ID *...*
 COMPUTER LABORATORIES
 EXTRACTION WORKSHEET
 EPR LOW LEVEL PESTICIDE WATER
 DATE EXTRACTED/POSTED *11-12-89*

SAMPLE NUMBER	EPR ID #	DC TYPE	SAMPLE ORIG #	SAMPLE VOLUME	ALUMINA STRAT VOL.	FIMRL VOL.	COMMENTS
301926R	55	SS	301917	500	1.0	5.0	<i>7/1/91 use serial sample vol. for SS only. Add 0.5ml water.</i>
301927R	55	SS	301917	500	1.0	5.0	<i>Add 500 µl water. Conc. to 5.0ml final volume.</i>
301928R	45	BS		1000	1.0	10.0	<i>use 301917 See DC by out of house</i>
301909R				1000	1.0	10.0	<i>(use 301909, 910, 912 for DC)</i>
301910R				1000	1.0	10.0	
301917R				1000	1.0	10.0	
301928R				1000	1.0	10.0	
301922R				1000	1.0	10.0	
<u>301927R</u>	<u>73801-05</u>			1000	1.0	10.0	
301938R	73801-10			1000	1.0	10.0	
301939R	73801-06			1000	1.0	10.0	
<i>of the 300528R</i>							
<i>Amount Dred</i>		B			1.0	1.0	<i>LOT #30391 Amount 7.0 ml # 58</i>
<i>BLK</i>	19	BLNK		1000	1.0	10.0	
<i>PBLK</i>	20	BLNK		1000	1.0	10.0	

CRSE # *12/10-5, 1907-1993* (11-18-84)
 SUPP. 395 1 ML *30/12*
 SPIKE 40'S 100 UL *30313*
 AMOUNT LOT *MGC 11-20-84
 CHECKED AND VERIFIED *11-13-89* (GC LRB)
 CASE DONE (GC LRB)
 AUTO. COUNTED 718.9%
 MANUAL COUNTED 715.51%
 Rec'd 14 Nov 89
 Date 11 Dec 89
 Doc'd P.C. 11-18-89

POSTER
 1/030

COMPOUND LIST NO. - 499

COMPUCHEM # 301937R DATE
IDENTIFIER PESTICIDES (LOW LEVEL WATER) EPA 504 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ / 5 = 1.0
AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----		0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-ODE-----		0.10
9.	0709	4,4'-ODD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I-----		0.050
12.	0712	ENDOSULFAN II-----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

BCL

ANALYST'S COMMENTS:

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-06

Lab Name: COMPUCREM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 301939
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/15/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/16/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee # 819 on Mon Nov 20, 1989 2:57 pm using EPACA 1.51

CompuChem Number:301939 Case#:18410 SDG #:5 EPA#:738001-06
 Matrix = Water Level = L Compound List = 175

Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} \times \text{Standard Conc} \times \text{Multiplication Factor} \times \text{Split} \times \text{Final Volume} \times \text{Dry Weight Factor}}{\text{Standard Area} \times \text{Volume or Weight of Sample}}$

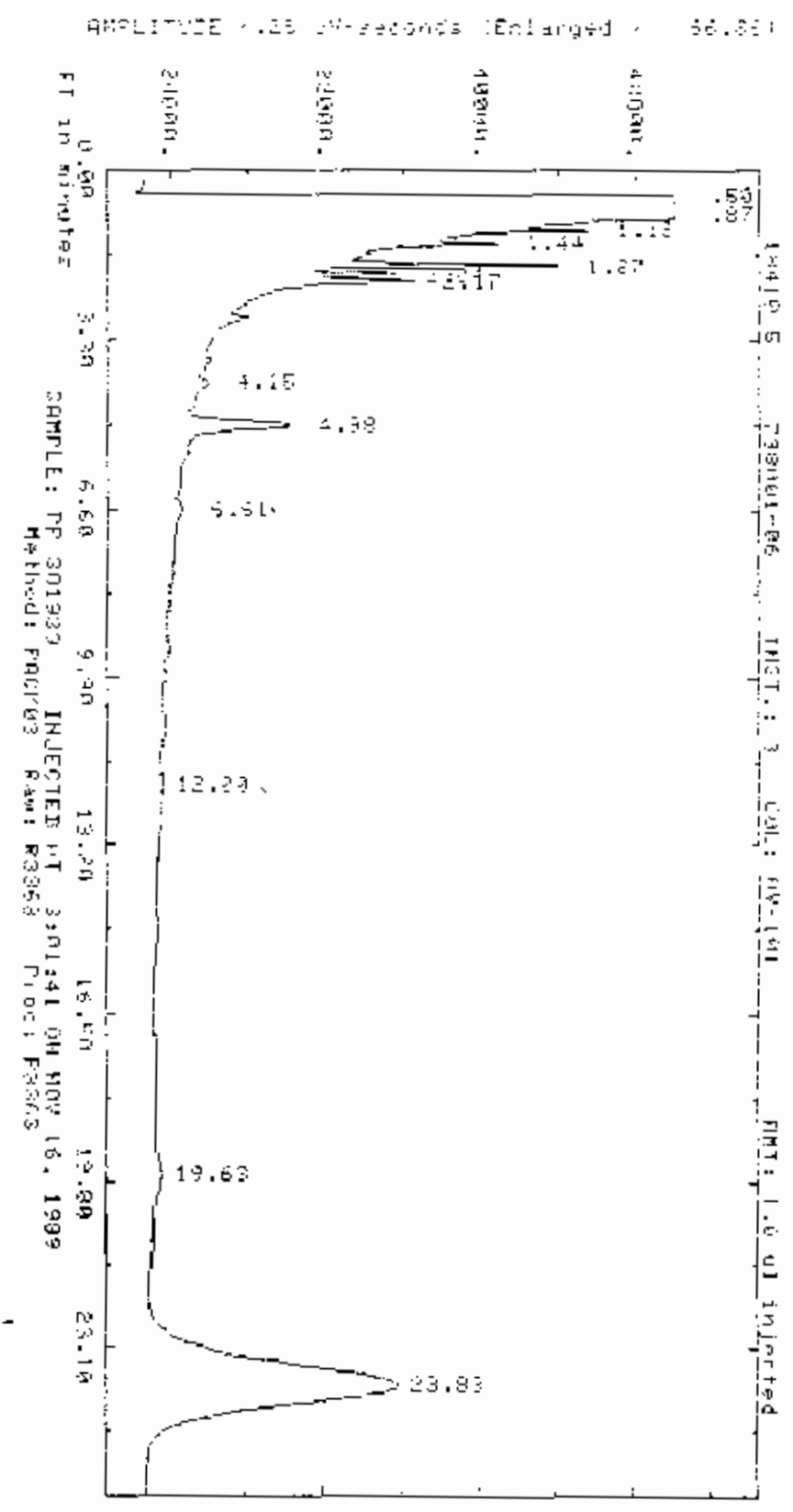
File : P3363 Column : DR-101 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Compound	Standard RT window	Standard Area	Standard Conc(ug/ml)	Sample RT	Sample Area	Sample Conc(ug/l)	Sample ng on col
alpha-BHC	2.00 - 2.08	59674	0.010	2.04	7759	0.01 (Bdx)	0.001300
beta-BHC	2.14 - 2.22	49592	0.020	2.17	11525	0.05 (Did not detect or require 74)	0.004648
Endosulfan I	6.53 - 6.80	103698	0.010	6.61	4023	0.00 (Bdx)	0.000388
4,4'-DDT	12.00 - 12.49	225061	0.060	12.00	3444	0.01 (Bdx)	0.000918
DDE	23.43 - 24.41	438416	0.100	23.83	389756	0.89 Primary/Reported DADR	0.088901 88.90 % Recovery

File : P7456 Column : 225Q/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Compound	Standard RT window	Standard Area	Standard Conc(ug/ml)	Sample RT	Sample Area	Sample Conc(ug/l)	Sample ng on col
DDE	20.22 - 21.04	1487512	0.100	20.62	754278	0.51	0.050707 50.71 % Recovery

Analyst Comments:



Report: 13591.00 Channel: 3 (F419.5 70111-15)
 Sample: PP 301979 Injected at 00:00:00 on 06/10/1997
 METHOD Method: P00X03 Seq: 00213 Temp/Pres: 170 1.15
 Sl. width MU/Min Delay Time (s) Gain
 500 1.700 0.10 3.57 20.0
 Suppl. 50T CO-LEI 964-374 0.014 201-2 100
 NO 0.00 C 1.3 1.01 0.0 0.0

Actual run time: 06:01:41 minutes

Ended not on baseline

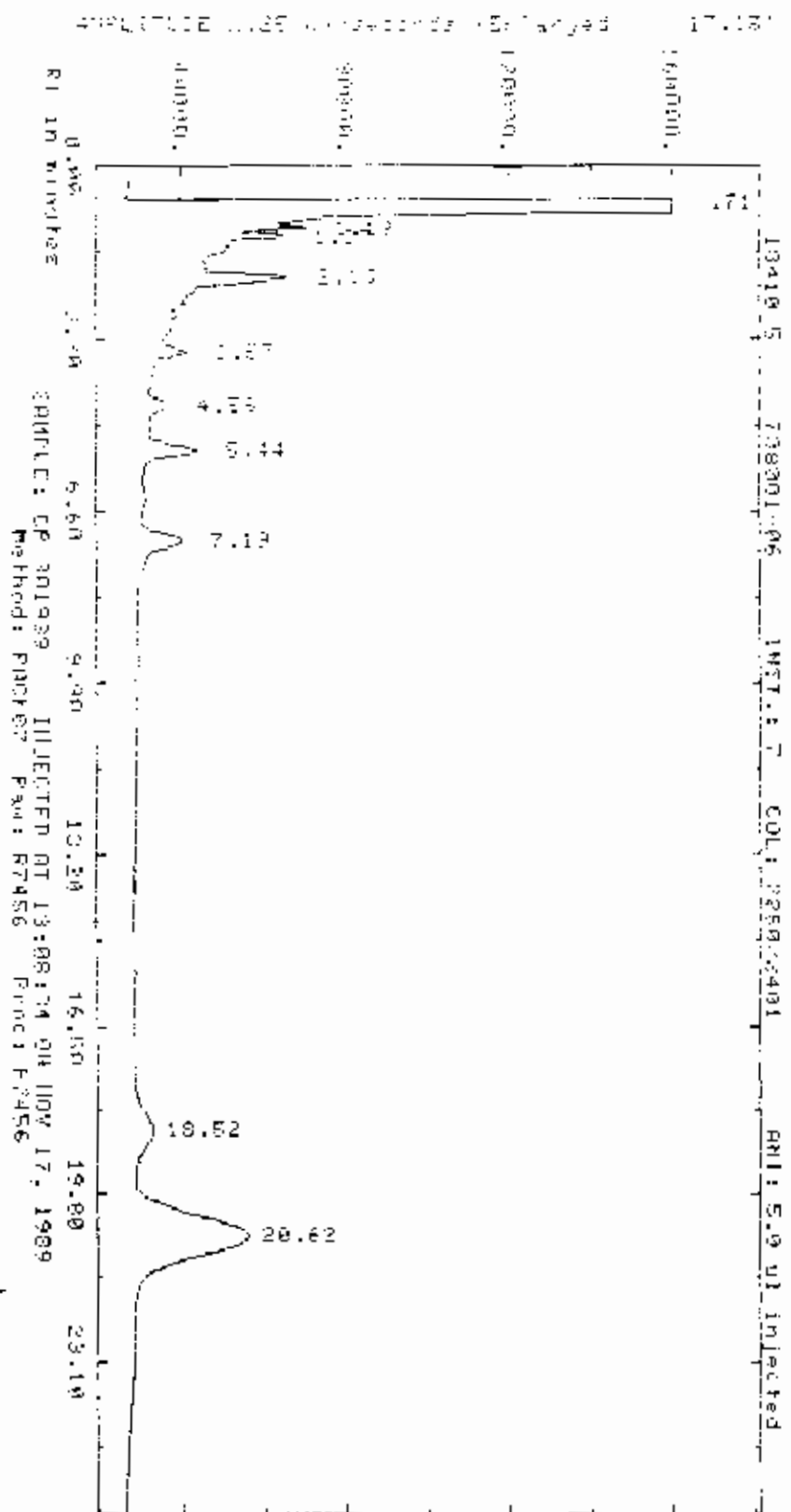
RT	TM	Factor	Area	Area %	Gain
5.1	0.00	1.0000E+01	3362694	67	20.709
5.87	0.00	1.0000E+01	3407	0.007	0.006
1.19	0.00	1.0000E+01	3911	0.008	0.004
1.24	0.00	1.0000E+01	4324	0.009	0.004
1.87	0.00	1.0000E+01	34757	0.7	0.009
2.04	0.00	1.0000E+01	7740	0.015	0.009
2.17	0.00	1.0000E+01	15125	0.03	0.009
4.15	0.00	1.0000E+01	3474	0.007	0.007
4.95	0.00	1.0000E+01	34071	6.7	0.007
5.51	0.00	1.0000E+01	4023	0.008	0.006
12.07	0.00	1.0000E+01	3448	0.007	0.007
19.53	0.00	1.0000E+01	3467	0.007	0.006
23.93	0.00	1.0000E+01	79275	1.6	0.001

Total Area = 6070372

Total AREA % = 70256.800

Processed data file: 73363

Raw data file: R3363



Report: 13833 00 Channel: 7 16BIT 7
 Sample CP 30193P
 ZERO Method: PACK07 Scan: 200000 Success: 7000000 20000000
 Simulation: 30000 HX/MIN: 3000 Delay: 0.01 R1: 100000 R2: 100000
 Sup-Hsk: 0.01 10-B/L: 0 PAF: 0.01 100.00 1.0
 H7: 0.00 0
 Actual run time: 25 000 minutes
 Ended next on baseline

RT	TTH	Factor	Area	Height	name
71	0.00	1.00000E+01	1420713.	93	53 561
1 19	0.00	1.00000E+01	28270.	PL	226
1 37	0.00	1.00000E+01	47058.	PS	1 449
2 15	0.00	1.00000E+01	131167.	PE	4 715
3 57	0.00	1.00000E+01	28772.	PR	1 109
4 58	0.00	1.00000E+01	28281.	PE	1 145
5 14	0.00	1.00000E+01	79352.	PS	2 133
7 19	0.00	1.00000E+01	111753.	PS	4 317
18 53	0.00	1.00000E+01	54427.	PS	1 133
20 32	0.00	1.00000E+01	754277.	PS	27 161

Total Area = 2732162 Total AREA X = 55457.000
 Processed data file: P7456 Raw data file: P7456

LAB INSTRUCTIONS:

INORGANICCS GET J DELIVERABLES. BILL AND SHIP AS CASE
CASE NO. RA 789 SDG 317. PLEASE PRESERVE METALS IN-HOUSE

WORKSHEETS
RECEIPT DATE 11/14/89

CASE # ^{19410.5} ~~484~~ COMPUCHER # 301939E

Sample Prep Code--- -55
Instrument Code----144
Compound List-----499
Surrogate Std-----395

GC/ECD; PEST/PCB; WATER SOW 2/88

=====

SAMPLE ID# 738001-06
Blank Associated with Case _____
Associated Blank _____

=====

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 ml

portion of Vol. in pesticide _____

=====

ANALYSIS INFORMATION: COMMENTS Send to QA
 QA Approved
 Need QC/MS Confirmation

Inst. # / Date Sequence Dil. Fact. 13 DC

<u>11/16</u>	<u>3</u>	<u>33</u>	<u>1</u>
<u>11/17</u>	<u>7</u>	<u>74</u>	<u>1</u>

Analyst 819/1221 Date 11-20-89

=====

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 89 % Recovery
AREA IN STD

X Recovery X 0.1 ug/ml = _____ ug/ml

- =====
- +EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE
 - JA = reinject acceptable FROM REPEAT REQUEST FORM IN BOX.
 - QA = repeat confirmed original results
 - OK = original data acceptable (not for REPEATS) FINAL STATUS CODE += OK
 - NS = insufficient sample for repeat
 - DL = DBC low (<20% Recovery)
 - DA = Dilution Acceptable
 - BF = Blank Requires Florisil
 - CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

QANA QAN3 QA notice included.

=====

SAMPLE DISPOSITION Code

- Complete.....
- Requires Re-extraction.. -55
- Requires cleanup..... 901

=====

Audited By _____ Date _____

ASSIGNED TO *Andy Williams*
 EMPLOYEE ID # *18410.5*

COMPUCHEN LABORATORIES
 EXTRACTOR WORKSHEET
 EPR LOW LEVEL PESTICIDE WATER

DATE EXTRACTED/POSTED *11-15-89*
 QUEUE # 10

(2-88) Rows

SAMPLE NUMBER	EPR ID #	QC TYPE	SAMPLE ORIG #	SAMPLE VOLUME	ALUMINUM STRT VOL.	FINAL VOL.	COMMENTS
1	301926	SS	301917	500	1.0	6.0	Use 500ml sample vol. for SS only. Add 0.5ml surf. Add 50ul spike. Conc. to 5.0ml final volume.
2	301927	SS	301917	500	1.0	5.0	
3	301928	SS		1000	1.0	10.0	118/441 USE 301909, 917, 918, 937, 989 FOR QC
4	301909			1000	1.0	10.0	
5	301910			1000	1.0	10.0	
6	301917			1000	1.0	10.0	
7	301918			1000	1.0	10.0	
8	301922			1000	1.0	10.0	
9	301937			1000	1.0	10.0	
10	301938			1000	1.0	10.0	
11	301939			1000	1.0	10.0	
12							
13	ALUMINUM			1.0	1.0	1.0	LOT # 30391 AMOUNT 1.0ML # 50
14							
15							
16							
17							
18							
19							
20							
21	301989	PBLK 03	BLENK	1000	1.0	10.0	
22	301990	PBLK 04	BLENK	1000	1.0	10.0	ADD GC 11-15-89

* AMOUNT LOT
 SURE 395 1 ML 30412
 SPIKE 4016 100 UL 30313

CHECKED AND VERIFIED *11-15-89* (GC LAB)
 CASE DONE (GC LAB)

REC'D 14 NOV 89
 AUTO. COUNTER 718/441
 MANUAL COUNTER 735/505

ALUMINUM BATCH # *11-3-89*



COMPOUND LIST NO. - 499

COMPUCHEM # 301939 DATE
IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA 804 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ / 5 = 1.0
AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----	ISDL	0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I -----		0.050
12.	0712	ENDOSULFAN II -----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-08

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5

Matrix: (soil/water) WATER Lab Sample ID: 301922

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

Level: (low/med) LOW Date Received: 11/14/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/30/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1569 on Fri Dec 1, 1989 4:49 pm using EPACA 1.51

CompuChem Number: 301922 Case#: 18410 SDG #: 5 EPA#: 738001-08
Matrix = Water Level = L Compound List = 175

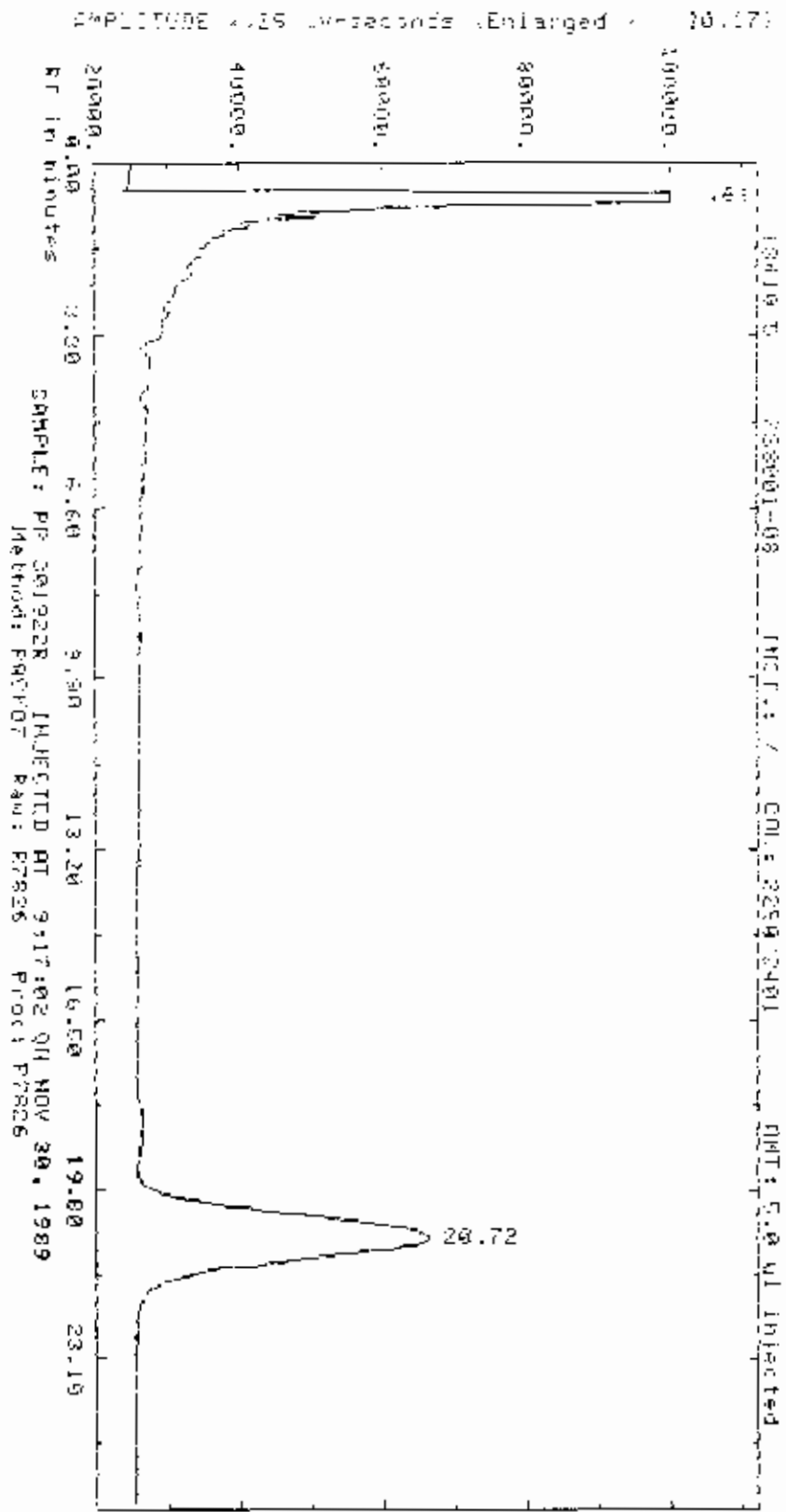
Volume/weight extracted = 1000.00 mL Final Extract Volume = 10.00 mL Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} \times \text{Standard Conc} \times \text{Multiplication Factor} \times \text{Split}}{\text{Standard Area} \times \text{Volume or Weight of Sample}} \times \text{Final Volume} \times \text{Dry Weight Factor}$

File : P7826 Column : 2250/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

DBC	Standard RT window - 20.24 - 21.07	Sample RT - 20.72	Primary/Reported OAS
	Standard Area - 1207364	Sample Area - 1209523	
	Standard Conc(ug/mL) - 0.100	Sample Conc(ug/L) - 1.00	100.18 % Recovery
		Sample ng on col - 0.100179	

Analyst Comments:



Report 14863 00 Channel: 7 10A:0 S 755001-02
 Sample: P7 301902R Injected at 9 17:42 24 NOV 80, 100 µl
 ZEDD Method: PACK07 Seq: S8873 9000/5000 1/25 0%I 1e
 Sl-Width MV/Min Delay Filter Speed
 .500 .300 0.00 20000 50.0
 Stop-Unit Det ID-Lvl Ref-PMW NRTW %20:1-4 1.00
 NO 0.00 0 50 5.0 100.00 20

Actual run time: 26.817 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.61	0 00	.10000E+01	8950926. B3	85.233	
20.72	0 00	.10000E+01	1209523. BF	14.767	
Total Area =			9190519.	Total AREA % = 100.000	
Processed data file: P7826			Raw data file: R7826		

LAB INSTRUCTIONS:
PESTICIDES
WORKSHEET
RECEIPT DATE

CASE # 184105 SAS:
188 COMPUchem # 301922R
12/04/89

DATE DUE:
Sample Prep Code--- -55
Instrument Code----144
Compound List-----499
Surrogate Std-----195

LOW LEVEL WATER, EPA 504 2/88

SDG: 05 EPA# 738001-08

Blank Associated with Case _____
Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 ml

portion of Vol. in pesticide _____

ANALYSIS INFORMATION: COMMENTS Send to QA
 QA Approved
 Need GC/MS Confirmation

Inst. # /
Date Sequence Dil. Fact.

1130 7 78 1

OK

Analyst 1569 Date 12/1/89

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 100 X Recovery
AREA IN STD

X Recovery X 0.1 ug/ml = _____ ug/ml

- +EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN 90X.
- JA = reinject acceptable
- QA = repeat confirmed original results
- OK = original data acceptable (not for REPEATS) FINAL STATUS CODE +=
- NS = insufficient sample for repeat
- DL = DBC low ((20% Recovery)
- QA = Dilution Acceptable
- BF = Blank Requires Florisil
- CT = Contamination Suspected

OK
EX
12/1/89

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

QANA QAN3 QA notice included.

SAMPLE DISPOSITION Code

Complete.....

Requires Re-extraction.. -55

Requires cleanup..... 901

Audited By _____ Date _____

ASSIGNED TO: Deanna England
 EMPLOYEE ID: 18410.5
 COMPUTER LABORATORIES
 EXTRACTION WORKSHEET
 EPN LOW LEVEL PESTICIDE WATER

DATE EXTRACTED/POSTED: 12-27-89

CRSE # 18410.5 1800-0000 1-18-84 -055

Back-up QUEUE # 10
2382 Bus

SAMPLE NUMBER	EPN ID	OC TYPE	SAMPLE DRIG #	SAMPLE VOLUME	ALUMINUM START VOL.	FIND VOL.	COMMENTS
301908R	55	55	301917	500	1.0	5.0	7/14/91 use 50ml sample vol. for 58 only. Add 0.5ml surf. Add 50ul spikes. Conc. to 5.0ml final volume.
301922R	55	55	301917	500	1.0	5.0	
301920R	55	BS		1000	1.0	10.0	use 301917 See DC by odd of levels (use 301904, 919, 918 for DC)
301909R	738001-12			1000	1.0	10.0	
301910R	738001-02			1000	1.0	10.0	
301917R	738001-01			1000	1.0	10.0	
301928R	738001-03			1000	1.0	10.0	
301922R	738001-08			1000	1.0	10.0	
301937R	738001-05			1000	1.0	10.0	
301938R	738001-10			1000	1.0	10.0	
301939R	738001-06			1000	1.0	10.0	
301940R	738001-12			1000	1.0	10.0	
301941R	738001-07			1000	1.0	10.0	
301942R	738001-08			1000	1.0	10.0	
301943R	738001-09			1000	1.0	10.0	
301944R	738001-10			1000	1.0	10.0	
301945R	738001-11			1000	1.0	10.0	
301946R	738001-12			1000	1.0	10.0	
301947R	738001-01			1000	1.0	10.0	
301948R	738001-02			1000	1.0	10.0	
301949R	738001-03			1000	1.0	10.0	
301950R	738001-04			1000	1.0	10.0	
301951R	738001-05			1000	1.0	10.0	
301952R	738001-06			1000	1.0	10.0	
301953R	738001-07			1000	1.0	10.0	
301954R	738001-08			1000	1.0	10.0	
301955R	738001-09			1000	1.0	10.0	
301956R	738001-10			1000	1.0	10.0	
301957R	738001-11			1000	1.0	10.0	
301958R	738001-12			1000	1.0	10.0	
301959R	738001-01			1000	1.0	10.0	
301960R	738001-02			1000	1.0	10.0	
301961R	738001-03			1000	1.0	10.0	
301962R	738001-04			1000	1.0	10.0	
301963R	738001-05			1000	1.0	10.0	
301964R	738001-06			1000	1.0	10.0	
301965R	738001-07			1000	1.0	10.0	
301966R	738001-08			1000	1.0	10.0	
301967R	738001-09			1000	1.0	10.0	
301968R	738001-10			1000	1.0	10.0	
301969R	738001-11			1000	1.0	10.0	
301970R	738001-12			1000	1.0	10.0	
301971R	738001-01			1000	1.0	10.0	
301972R	738001-02			1000	1.0	10.0	
301973R	738001-03			1000	1.0	10.0	
301974R	738001-04			1000	1.0	10.0	
301975R	738001-05			1000	1.0	10.0	
301976R	738001-06			1000	1.0	10.0	
301977R	738001-07			1000	1.0	10.0	
301978R	738001-08			1000	1.0	10.0	
301979R	738001-09			1000	1.0	10.0	
301980R	738001-10			1000	1.0	10.0	
301981R	738001-11			1000	1.0	10.0	
301982R	738001-12			1000	1.0	10.0	
301983R	738001-01			1000	1.0	10.0	
301984R	738001-02			1000	1.0	10.0	
301985R	738001-03			1000	1.0	10.0	
301986R	738001-04			1000	1.0	10.0	
301987R	738001-05			1000	1.0	10.0	
301988R	738001-06			1000	1.0	10.0	
301989R	738001-07			1000	1.0	10.0	
301990R	738001-08			1000	1.0	10.0	
301991R	738001-09			1000	1.0	10.0	
301992R	738001-10			1000	1.0	10.0	
301993R	738001-11			1000	1.0	10.0	
301994R	738001-12			1000	1.0	10.0	
301995R	738001-01			1000	1.0	10.0	
301996R	738001-02			1000	1.0	10.0	
301997R	738001-03			1000	1.0	10.0	
301998R	738001-04			1000	1.0	10.0	
301999R	738001-05			1000	1.0	10.0	
302000R	738001-06			1000	1.0	10.0	

AMOUNT LOT *76 GC 11-20-89
 SURR 395 I ML 30412
 SPIKE 400's 100 UL 30313
 0 to GC 11-18-89
 CHECKED AND VERIFIED 11-18-89 (GC LAB)
 CRSE DONE (GC LAB)
 AUTD. COUNTER 738 / 441
 MANUAL COUNTER 735 / 513
 DEC 15 14 NOV 94
 DEC 12 1989

POSTER 10
 1630

COMPOUND LIST NO. - 499

COMPUCHEM # 301922R DATE IDENTIFIER PESTICIDES (LOW LEVEL WATER) EPA SDW 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ /5 = 1.0 AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----		0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I -----		0.050
12.	0712	ENDOSULFAN II -----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLDR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

Handwritten vertical line and signature 'BBL' in the results column.

ANALYST'S COMMENTS:

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-10

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 301938
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/21/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

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

CAS NO.	COMPOUND	Q
319-84-6	alpha-BHC	0.050 U
319-85-7	beta-BHC	0.050 U
319-86-8	delta-BHC	0.050 U
58-89-9	gamma-BHC (Lindane)	0.050 U
76-44-8	Heptachlor	0.050 U
309-00-2	Aldrin	0.050 U
1024-57-3	Heptachlor epoxide	0.050 U
959-98-8	Endosulfan I	0.050 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
1031-07-8	Endosulfan sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin ketone	0.10 U
5103-71-9	alpha-Chlordane	0.50 U
5103-74-2	gamma-Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

Analysis Worksheet

By employee #1569 on Tue Nov 28, 1989 2:25 pm using EPACA 1.51

CompuChem Number:301910 Case#:10410 SDG #:5 EPA#:738001-10
Matrix = Water Level = L Compound List = 175

Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

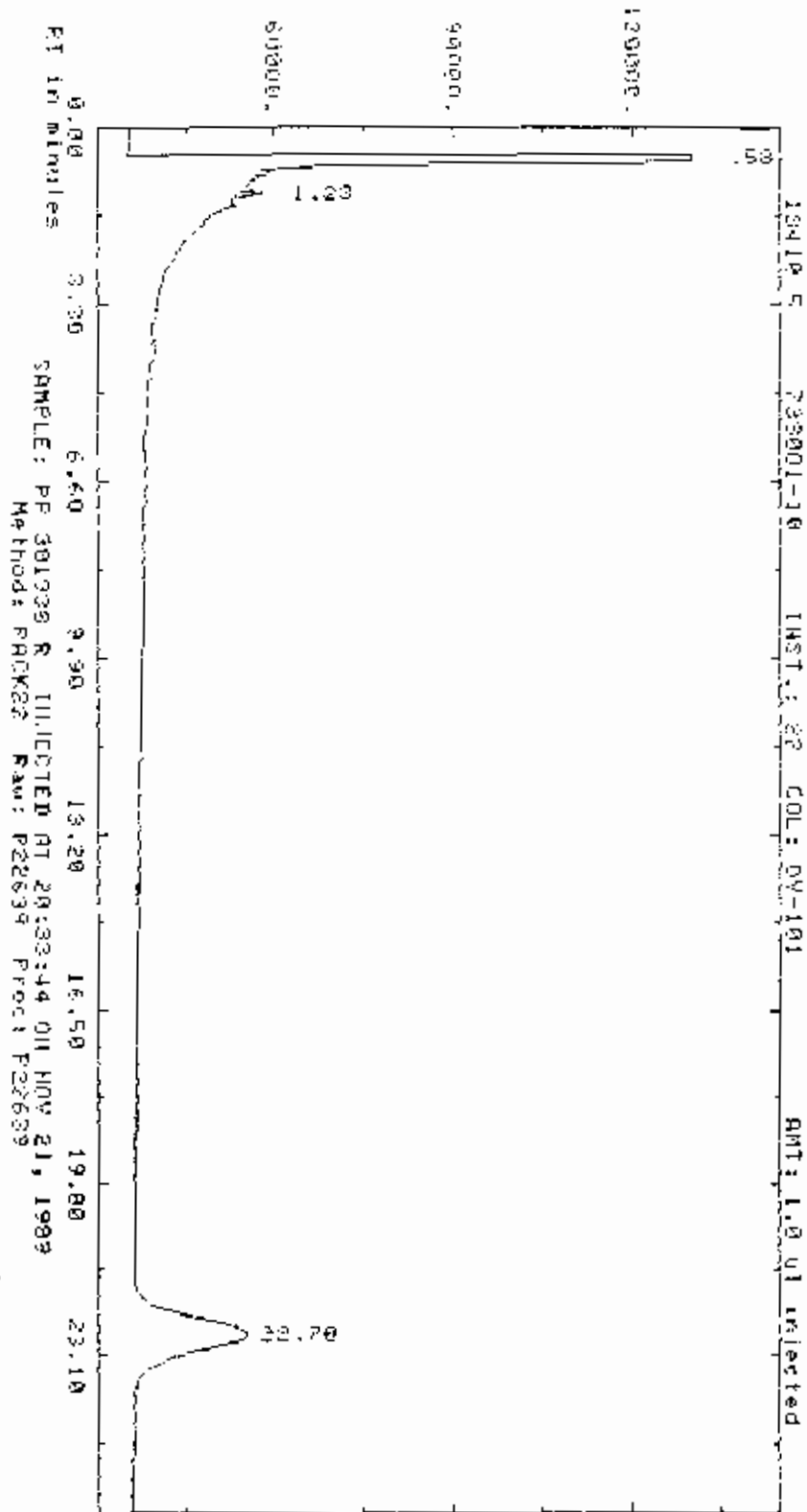
Concentration = $\frac{\text{Sample Area} \times \text{Standard Conc} \times \text{Multiplication Factor} \times \text{Split} \times \text{Final Volume} \times \text{Dry Weight Factor}}{\text{Standard Area} \times \text{Volume or Weight of Sample}}$

File : P22639 Column : OV-101 Multiplication Factor : 1.0 Detection Level Factor : 1.00

DBC _____	Standard RT window - 22.38 - 23.30	Sample RT - 22.70	Primary/Reported QADS
	Standard Area - 631395	Sample Area - 446032	
	Standard Conc(ug/ml) - 0.100	Sample Conc(ug/l) - 0.70	70.33 X Recovery
		Sample ng on cal - 0.070326	

Analyst Comments:

AMPLITUDE 0.29 07seconds (Enlarged) 19.00



Report #: 1610.00 Channel: 22 13110 S 136761-16
 Sample: PP 381938 R Injected at 20:33:44 ON NOV 21, 1989
 ZERO Method: PAKK22 Seq: 580326 Subtag/Comp: 1-37 611-37
 Sl-Width 0.500 MV/Min 0.300 Delay 0.000 K10-Gr 5000 Bunch auto
 Supp/Unk NO D/T 0.00 ID-Lo 0 Ref:RTU 1.50 25.00 2011-f 100.00 Tso NO
 Actual run time: 26.000 minutes
 Ended not on baseline

RT	LTM	Factor	Area	AREA %	Name
0.58	0.00	.10000E+01	6270405	93.300	RS
1.23	0.00	.10000E+01	6567	.097	RS
22.70	0.00	.10000E+01	444032	6.531	RF
Total Area =		6747084	Total AREA % =		444032.000
Processed data file: P22637			Raw data file: R22635		

LAB INSTRUCTIONS:
PESTICIDES
WORKSHEET
RECEIPT DATE

CASE #18410-5 SAS:
CEC
12/02/89
COMPUCHEM #301938R

DATE DUE:
Sample Prep Code--- -55
Instrument Code----144
Compound List-----499
Surrogate Std-----395

LOW LEVEL WATER, EPA 80W 2/88

SDG: 05 EPA# 738001-10
Blank Associated with Case _____
Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes | |

Vol. of sample 1000 ml final volume of extract 10 ml

portion of Vol. in pesticide _____

ANALYSIS INFORMATION: COMMENTS | | Send to QA
| | QA Approved
| | Need QC/HS Confirmation

Inst. # /
Date Sequence Dil. Fact.
11/21/89 22 226 1

BDL

Analyst 1569/819 Date 11/28/89

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 70 X Recovery
AREA IN STD

% Recovery X 0.1 ug/ml = _____ ug/ml

+EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.
JA = reinject acceptable
QA = repeat confirmed original results
OK = original data acceptable (not for REPEATS) FINAL STATUS CODE = QA
NS = insufficient sample for repeat
DL = DBC low (<20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

| | QANA | | QAN3 | QA notice included.

SAMPLE DISPOSITION Code

| | Complete.....
| | Requires Re-extraction.. -55
| | Requires cleanup..... 901

Audited By _____ Date _____

ASSIGNED TO Deanna England
 EMPLOYEE ID # 13009-00853 (141-89)

COMPUTER LABORATORIES
 EXTRACTOR WORKSHEET
 EPR LUM LEVEL PESTICIDE WATER
 DATE EXTRACTED/POSTED 11-27-89

CASE # 18410.5, 13009-00853 (141-89) -055
 QUEUE # 10
2-881 Reqs

SAMPLE NUMBER	EPR ID #	DC TYPE	SAMPLE DRIG #	SAMPLE VOLUME	ALUMINUM STRAIT VOL.	FINRL VOL.	COMMENTS
301900R	55	55	301917	500	1.0	5.0	7/8/91 Use 500ul sample vol. for 50 only. Add 0.5ml surf. Add 50ul water, cont. to 5.0ml final volume.
301927R	55	55	301917	500	1.0	5.0	
301928R	45	BS		1000	1.0	10.0	Use 301917 for DC by odd/evens
301909R	73801-12			1000	1.0	10.0	(Use 301908, 910, 918 for DC)
301910R	73801-02			1000	1.0	10.0	
301917R	73801-01			1000	1.0	10.0	
301928R	73801-03			1000	1.0	10.0	
301922R	73801-08			1000	1.0	10.0	
301927R	73801-05			1000	1.0	10.0	
301938R	73801-10			1000	1.0	10.0	
301939R	73801-06			1000	1.0	10.0	
301940R	73801-07			1000	1.0	10.0	
301941R	73801-04			1000	1.0	10.0	
301942R	73801-09			1000	1.0	10.0	
301943R	73801-11			1000	1.0	10.0	
301944R	73801-13			1000	1.0	10.0	
301945R	73801-14			1000	1.0	10.0	
301946R	73801-15			1000	1.0	10.0	
301947R	73801-16			1000	1.0	10.0	
301948R	73801-17			1000	1.0	10.0	
301949R	73801-18			1000	1.0	10.0	
301950R	73801-19			1000	1.0	10.0	
301951R	73801-20			1000	1.0	10.0	
303177	BLNK	BLNK		1000	1.0	10.0	
303178	BLNK	BLNK		1000	1.0	10.0	
303179	BLNK	BLNK		1000	1.0	10.0	
303180	BLNK	BLNK		1000	1.0	10.0	

AMOUNT LOT
 30412
 30313
 CHECKED AND VERIFIED 11/18/89 (GC LAB)
 (GC LAB)
 AUTO. COUNTER 718, 741
 MANUAL COUNTER 735, 613

POSTER 10
 1630

COMPOUND LIST NO. - 499

COMPUCHEM #30/238R DATE
IDENTIFIER PESTICIDES (LOW LEVEL WATER) EPA 60W 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ /5 = 1.0
AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----	<i>BOL</i>	0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLDRANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDDSULFAN I -----		0.050
12.	0712	ENDDSULFAN II -----		0.10
13.	0713	ENDDSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLDR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLDR 123B-----		0.50
23.	0718	AROCHLDR 1242-----		0.50
24.	0722	AROCHLDR 1248-----		0.50
25.	0719	AROCHLDR 1254-----		1.0
26.	0723	AROCHLDR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-12

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 301909
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/15/89
 Extraction: (SepF/Cont/Sonc) SEPP Date Analyzed: 11/15/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>		Q
319-84-6	alpha-BHC	0.050	U	
319-85-7	beta-BHC	0.050	U	
319-86-8	delta-BHC	0.050	U	
58-89-9	gamma-BHC (Lindane)	0.050	U	
76-44-8	Heptachlor	0.050	U	
309-00-2	Aldrin	0.050	U	
1024-57-3	Heptachlor epoxide	0.050	U	
959-98-8	Endosulfan I	0.050	U	
60-57-1	Dieldrin	0.10	U	
72-55-9	4,4'-DDE	0.10	U	
72-20-8	Endrin	0.10	U	
33213-65-9	Endosulfan II	0.10	U	
72-54-8	4,4'-DDD	0.10	U	
1031-07-8	Endosulfan sulfate	0.10	U	
50-29-3	4,4'-DDT	0.10	U	
72-43-5	Methoxychlor	0.50	U	
53494-70-5	Endrin ketone	0.10	U	
5103-71-9	alpha-Chlordane	0.50	U	
5103-74-2	gamma-Chlordane	0.50	U	
8001-35-2	Toxaphene	1.0	U	
12674-11-2	Aroclor-1016	0.50	U	
11104-28-2	Aroclor-1221	0.50	U	
11141-16-5	Aroclor-1232	0.50	U	
53469-21-9	Aroclor-1242	0.50	U	
12672-29-6	Aroclor-1248	0.50	U	
11097-69-1	Aroclor-1254	1.0	U	
11096-82-5	Aroclor-1260	1.0	U	

Analysis Worksheet

By employee # 819 on Mon Nov 20, 1989 3:14 pm using EPACA 1.51

CompuChem Number: 301909
Matrix = Water

Case #: 18410
Level = L

SDG #: 5

EPA #: 738001-12
Compound List = 175

Volume/Weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} \times \text{Standard Conc} \times \text{Multiplication Factor} \times \text{Split} \times \text{Final Volume} \times \text{Dry Weight Factor}}{\text{Standard Area} \times \text{Volume or Weight of Sample}}$

File : P3355 Column : OV-101 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Aroclor-1254	Standard RT window - 9.16 - 9.53	Standard Area - 695529	Standard Conc(ug/ml) - 0.300	Sample RT - 9.30	Sample Area - 115870	Sample Conc(ug/l) - 0.50 (R.D.)	Sample ng on col - 0.049978
DBC	Standard RT window - 23.45 - 24.41	Standard Area - 438416	Standard Conc(ug/ml) - 0.100	Sample RT - 23.76	Sample Area - 567767	Sample Conc(ug/l) - 1.30	Sample ng on col - 0.129504

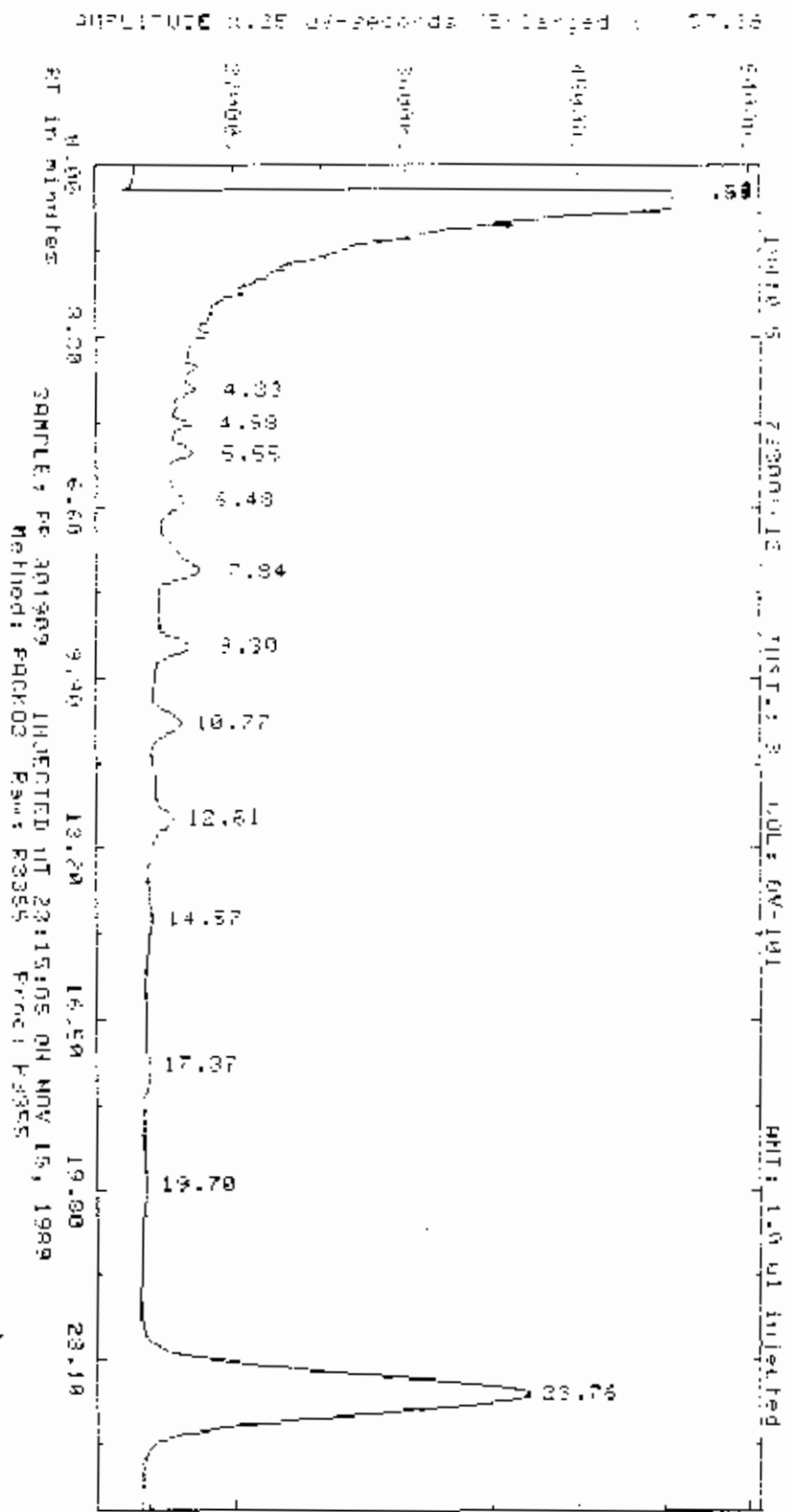
129.50 % Recovery

File : P7433 Column : 2230/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Aroclor-1254	Standard RT window - 9.21 - 9.59	Standard Area - 1336720	Standard Conc(ug/ml) - 0.300	Sample RT - 9.35	Sample Area - 148084	Sample Conc(ug/l) - 0.33 (R.D.)	Sample ng on col - 0.033234
DBC	Standard RT window - 20.22 - 21.04	Standard Area - 1487512	Standard Conc(ug/ml) - 0.100	Sample RT - 20.58	Sample Area - 1443467	Sample Conc(ug/l) - 0.97	Sample ng on col - 0.097039

97.04 % Recovery

Analyst Comments:

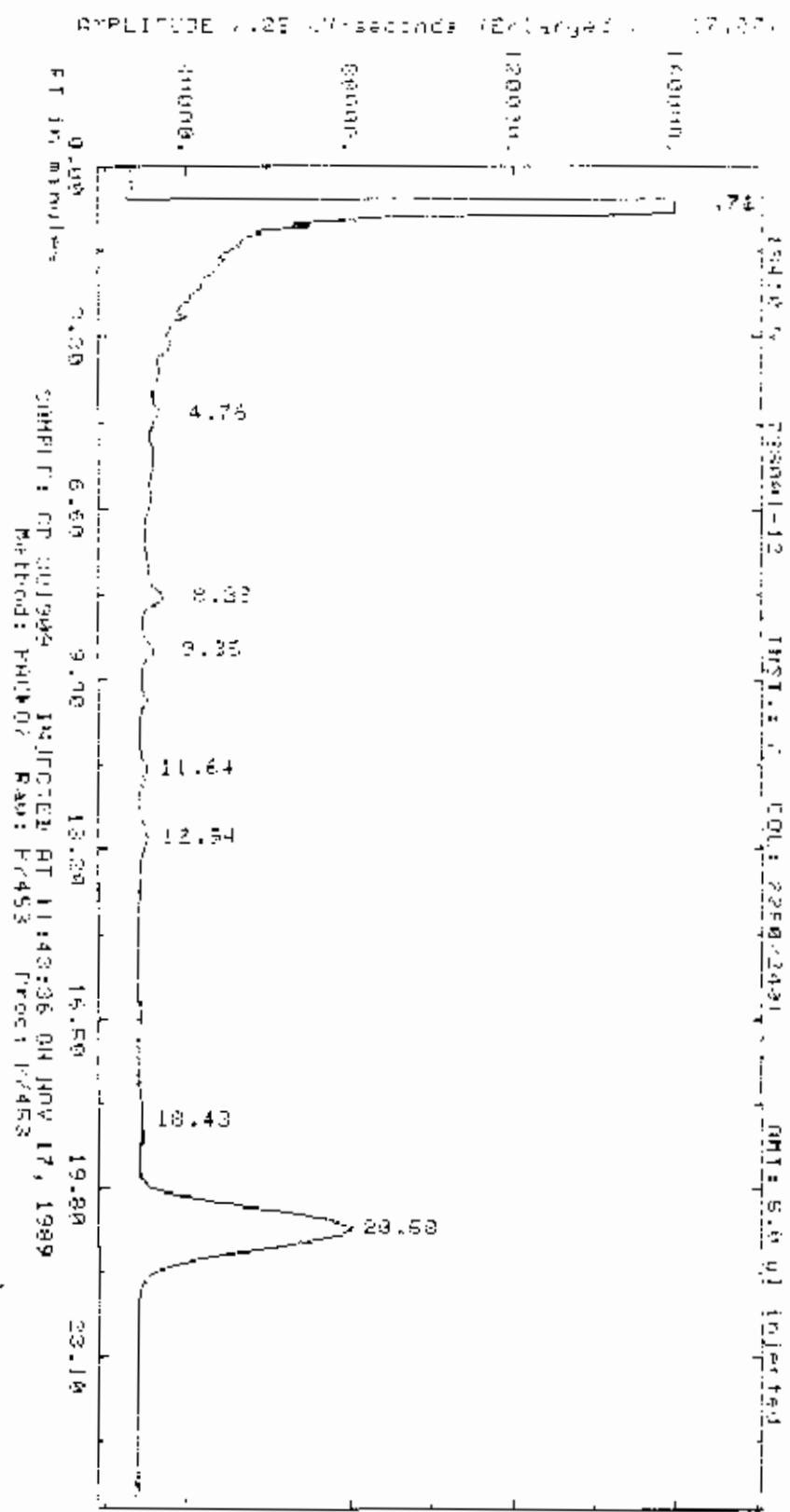


Review: 13483.00 Sample: 301909
 Sample: RP 301909
 ZPRC Method: PAK03 Sec: WPCX Subj: Samp. 10/8/83 P. 10/83
 Sl. Width 40.0 Min Delay 50.000 50.000
 500 300 3.000
 Sp. Inj. 0.00 10-0.01 Ref. Inj. 0.00 20.000 1.00
 NR 0.00 2 0.00 100.00 0.00

Actual run time: 24.12 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
4.49	0.00	1.0000E+01	1012033	23	103.461
4.45	0.00	1.0000E+01	0	0	0.000
4.33	0.00	1.0000E+01	3401	08	1.196
4.98	0.00	1.0000E+01	5131	13	1.296
5.55	0.00	1.0100E+01	9750	08	1.263
6.48	0.00	1.0000E+01	15520	00	1.579
7.94	0.00	1.0000E+01	32313	08	1.691
9.30	0.00	1.1000E+01	21504	00	1.164
10.77	0.00	1.0000E+01	20715	08	1.137
12.51	0.00	1.1000E+01	23659	00	1.367
14.57	0.00	1.0000E+01	3518	00	0.377
17.37	0.00	1.0000E+01	9111	00	0.970
19.70	0.00	1.0000E+01	4552	00	0.484
23.76	0.00	1.0000E+01	567767	00	58.797

Total Area = 1731131 Total AREA % = 587267.000
 Processed data file: P3355 Raw data file: P3355



Report: 17030 00 Channel: 7 Date: 1/11/89
Sample: PC 301969 Injection at 10.00, 5.00, 0.00, 0.00, 0.00
MSD Method: P0007 Cond: 100% Inert Gas, 10.00, 10.00, 10.00
SL-Width: 500 MV/Min: 500 Delay: 0.00 Gain: 10.00
Scan Delay: 0.00 (0.00) Ret: 0.00 Area: 0.00
PC 0.00 0.00 0.00 0.00 (0.00) 0.00

Actual run time: 25.017 minutes
Ended not on baseline

RT	ITH	Factor	Area	Area %	Area
7.1	0.00	1.0000E+04	14475.19	33	33.973
7.6	0.00	1.0000E+04	96088.80	22	21.953
4.76	0.00	1.0000E+04	31213.38	7	7.523
8.28	0.00	1.0000E+04	4422.30	1	1.113
9.35	0.00	1.0000E+04	5425.40	1	1.251
11.64	0.00	1.0000E+04	7423.40	2	1.702
12.94	0.00	1.0000E+04	15127.00	4	3.474
18.43	0.00	1.0000E+04	29227.00	7	6.741
20.58	0.00	1.0000E+04	14475.19	3	3.291
Total Area =		4648959	Total Area % =		44.467310
Processed data file:		37453	Raw data file:		37453

REPORT: 13433.11 CHANNEL: 3

SAMPLE: RP 501309 INJECTED AT 23:15:05 ON NOV 15, 1989

ESTD METHOD: AR5433 SEQ: SEQ33 SUBSQ/SAMP: 17 55 BTL: 55

SL-WDTH HV/MIN DELAY MIN-AR BUNCH
.500 .300 2.00 1000 AUTO

SJP-JNK OUT ID-LVL REF-RTW XRTW %DIL-F ?
YES 0.00 0 .300 5.000 100.00 NO

ACTUAL RUN TIME: 26.017 MINUTES

ENDED HCT ON BL

RT	ITM	FACTOR	AREA	RATIO	NAME
3.91			149728 **	2.377	+AR5433
TOTAL AREA = 1739155 * TOTAL RATIO = 1590428.88					

SUMMED PEAK COMPONENTS

RT	ITM	FACTOR	AREA	RATIO	NAME
3.91	3.73	3.2635E- 5	2527 88	.002	+AR5433
4.33	4.20	7.2185E- 5	3401 88	.024	+AR5433
5.35	5.50	1.1713E- 5	9753 88	.114	+AR5433
6.48	6.31	9.0396E- 6	15220 88	.130	+AR5433
7.84	7.84	1.6008E- 5	32858 88	.533	+AR5433
9.30	9.21	7.8105E- 6	20504 88	.160	+AR5433
10.77	10.71	8.0079E- 6	20715 88	.166	+AR5433
12.81	12.58	8.5454E- 6	23559 88	.202	+AR5433
14.57	14.48	2.5303E- 5	6510 88	.169	+AR5433
17.37	17.12	3.5097E- 5	9010 88	.315	+AR5433
19.70	19.58	5.5008E- 5	4562 88	.251	+AR5433

PROCESSED DATA FILE: Q3355 RAW DATA FILE: R3355

PASS 1

MEAN =.184425 STD DEV =6.67254E-02 REL STD DEV =.361803 N=10
SUM OF STANDARD AREAS =695529. SUM OF SAMPLE AREAS =115370.

DONE

REPORT: 13230.11 CHANNEL: 7

SAMPLE: CP 301909 INJECTED AT 11:43:36 ON NOV 17, 1969

ESTD METHOD: AR5474 SEQ: SEQ74 SUBSQ/SAMP: 17 53 BTL: 63

SL-WIDTH MV/MIN DELAY MIN-AR BUNCH
.500 .300 0.00 1000 AUTO

SUP-LNK CUT IS-LVL REF-RTW %RTW %DIL-F I
YES 0.00 0 .300 5.000 :20.00 NO

ACTUAL RUN TIME: 25.017 MINUTES

ENDED NOT ON BL

RT	ITM	FACTOR	AREA	RATIO	NAME
3.97			1257231 **	2.780	+AR5474
TOTAL AREA = 4164952 * TOTAL RATIO = 2507722.47					

SUMMED PEAK COMPONENTS

RT	ITM	FACTOR	AREA	RATIO	NAME
3.97	4.00	1.4310E- 5	9216 88	.132	+AR5474
4.76	4.67	3.4755E- 5	20700 88	.720	+AR5474
5.72	5.64	9.4775E- 6	13742 88	.130	+AR5474
6.35	6.34	8.2559E- 6	9928 88	.082	+AR5474
7.63	7.83	1.1996E- 5	5590 88	.067	+AR5474
8.28	8.35	5.9553E- 6	44972 88	.268	+AR5474
9.35	9.36	3.5538E- 6	34354 88	.122	+AR5474
10.30	10.30	6.3964E- 6	15196 88	.097	+AR5474
11.64	11.65	4.2481E- 6	24734 88	.108	+AR5474
12.94	12.94	3.4590E- 6	35325 88	.122	+AR5474
20.58	20.58*	6.6172E- 7	1443467 88	.941	+AR5474

PROCESSED DATA FILE: Q7453 RAW DATA FILE: R7453

PASS 1

MEAN =.184767 STD DEV =.185667 REL STD DEV =1.00487 N=10
SUM OF STANDARD AREAS =1.53241E+06 SUM OF SAMPLE AREAS =213764.

RT	ITM	AREA	RATIO	NAME
3.97435	4.00229	9216.37	.13189	+AR5474
5.71907	5.84247	13741.9	.130238	+AR5474
6.35052	6.34091	9927.75	8.13623E-02	+AR5474
7.62064	7.8266	5589.62	6.70504E-02	+AR5474
8.2808	8.35077	44971.9	.26762	+AR5474
9.35338	9.35791	34354.	.122079	+AR5474
10.2997	10.3037	15195.9	.097199	+AR5474
11.6381	11.6478	24734	.107545	+AR5474
12.9391	12.9421	35325.	.122188	+AR5474

PASS 2

MEAN =.12533 STD DEV =5.45444E-02 REL STD DEV =.435086 N=9
SUM OF STANDARD AREAS =1.50464E+06 SUM OF SAMPLE AREAS =193056.

RT	ITM	AREA	RATIO	NAME
3.97435	4.00219	3016.37	.13189	+AR5474
5.71907	5.34047	13741.9	.100238	+AR5474
6.35252	6.04051	3527.75	3.12613E-02	+AR5474
7.62864	7.3266	5599.62	3.70504E-02	+AR5474
9.35336	9.35791	34354.	.122075	+AR5474
10.2357	10.3037	15135.9	.057139	+AR5474
11.6381	11.6478	24734	.107545	+AR5474
12.5391	12.5421	35325.	.122188	+AR5474

PASS 3
MEAN = .107519 STD DEV = 2.21772E-02 REL STD DEV = .205263 N=8
SUM OF STANDARD AREAS = 1.33672E+05 SUM OF SAMPLE AREAS = 148334.

DONE

LAB INSTRUCTIONS:

INORGANICS GET J DELIVERABLES. BILL AND SHIP AS CASE
CASE NO. RA 789 SDG 317. PLEASE PRESERVE METALS IN-HOUSE

WORKSHEETS
RECEIPT DATE 11/14/89

CASE # ^{18410.5} ~~1011~~ COMPUCHEN # 301909UE

Sample Prep Code--- -55
Instrument Code-----144
Compound List-----499
Surrogate Std-----395

GC/ECD; PEST/PCB; WATER SOW 2/88

SAMPLE ID# T38001-12

Blank Associated with Case _____
Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes | |

Vol. of sample 100 ml final volume of extract 10 ml

portion of Vol. in pesticide _____

ANALYSIS INFORMATION:

COMMENTS

- Send to QA
- QA Approved
- Need GC/MS Confirmation

Inst. # /
Date Sequence Dil. Fact.

11/15 3 35 1

SDC

11/17 7 74 1

Analyst S/19/1201 Date 11-20-89

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 97 % Recovery
AREA IN STD

X Recovery X 0.1 ug/ml = _____ ug/ml

- +EA = re-extract acceptable
- JA = reinject acceptable
- QA = repeat confirmed original results
- OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+= OK
- NS = Insufficient sample for repeat
- DL = DBC low ((20X Recovery)
- DA = Dilution Acceptable
- BF = Blank Requires Florisil
- CT = Contamination Suspected

IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

QANA QANJ QA notice included.

SAMPLE DISPOSITION Code

- Complete.....
- Requires Re-extraction.. -55
- Requires cleanup..... 901

Audited By _____ Date _____

ASSIGNED TO David Williams
 EMPLOYEE ID # 1272
 CRSE # 18410.5

COMPUCHEM LABORATORIES
 EXTRACTION WORKSHEET
 EPR LOW LEVEL PESTICIDE WATER

DATE EXTRACTED/POSTED 11-15-85
 QUEUE # 10

(2-88) Rows

SAMPLE NUMBER	EPR ID #	DC TYPE	SAMPLE ORIG #	SAMPLE VOLUME	ALUMINA STRRT VOL.	FINAL VOL.	COMMENTS
1	301926	SS	301917	500	1.0	5.0	Use 500ul sample vol. for 50 only. Add 0.5ul surf.
2	301927	SS	301912	500	1.0	5.0	Add 50ul spike. Conc. to 5.0ul final volume.
3	301928	SS		1000	1.0	10.0	718/41 USE 301909, 917, 918, 937, 939 FOR QC
4	301909			1000	1.0	10.0	
5	301910			1000	1.0	10.0	
6	301917			1000	1.0	10.0	
7	301918			1000	1.0	10.0	
8	301922			1000	1.0	10.0	
9	301937			1000	1.0	10.0	
10	301938			1000	1.0	10.0	
11	301939			1000	1.0	10.0	
12							
13	ALUMINA BLK			1.0	1.0	1.0	LOT# 30591 APPROX 1.0ml # 50
14							
15							
16							
17							
18							
19							
20							
21	301989	BLK 03	BLNK	1000	1.0	10.0	
22	301990	BLK 04	BLNK	1000	1.0	10.0	

* AMOUNT LOT
 SURR 395 1 ML 30412
 SPIKE 4016 100 UL 30313
 ALUMINA BATCH # 11-3-89

CHECKED AND VERIFIED 11-15-85 (GC LAB)
 CRSE DONE
 (GC LAB)



REC'D GC 11-15-85
 REC'D 14 Nov 85
 DEC 12 Dec 85
 AUTO. COUNTER 710/41
 MANUAL COUNTER 735/505

COMPOUND LIST NO. - 499

COMPUCHEM # 301909 DATE
IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA SDW 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ /5 = 1.0
AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----	BDL	0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I -----		0.050
12.	0712	ENDOSULFAN II -----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-13

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REYS
 Lab Code: COMPU Case No.: 10410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 302174
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/18/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

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

CAS NO.	COMPOUND	UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1569 on Tue Nov 28, 1989 8:58 am using EPACA 1.51

CompuChem Number:302174 Case#:18410 SDG #:5 EPA#:738001-13
Matrix = Water Level = L Compound List = 175

Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

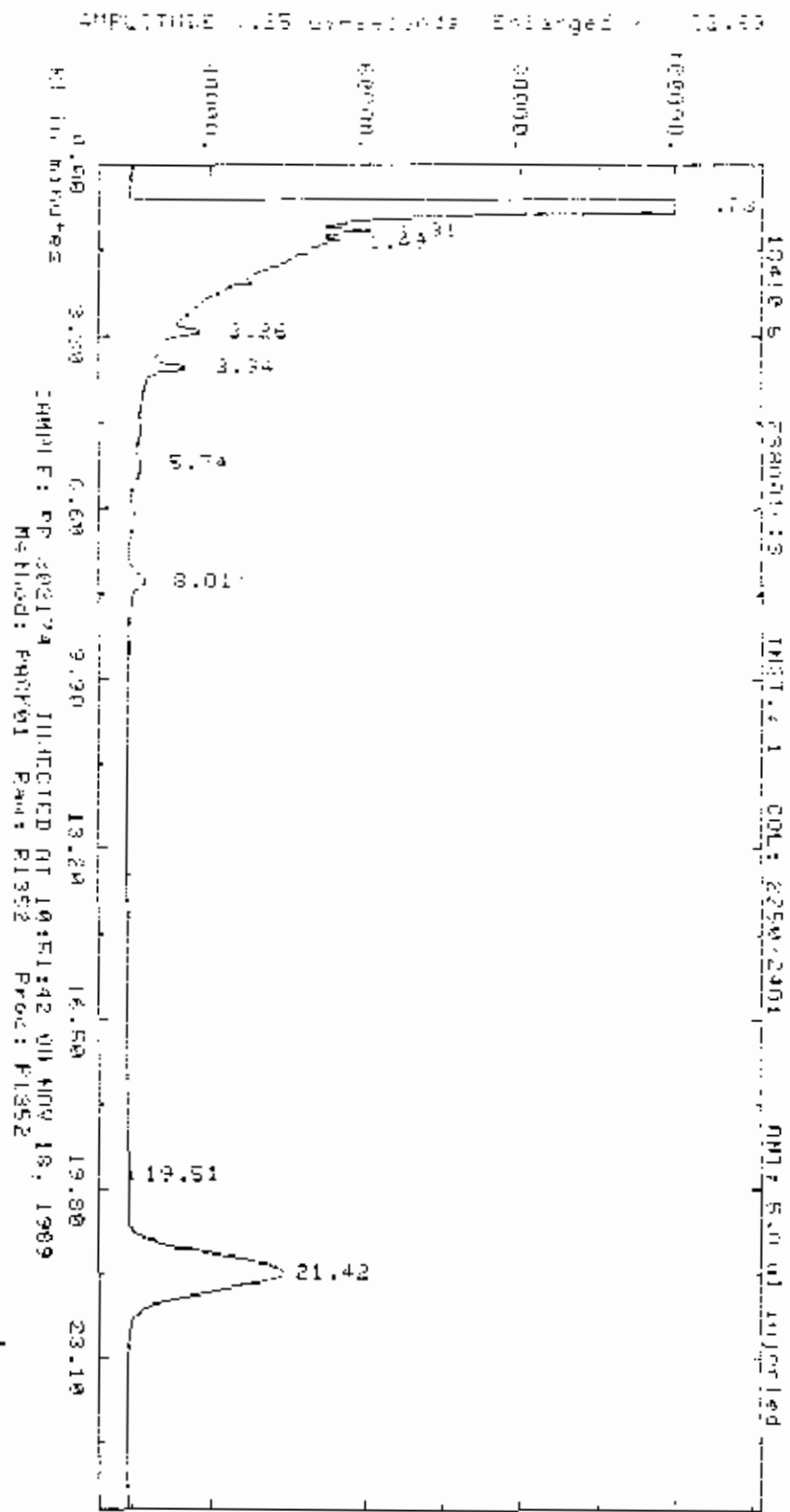
Concentration = $\frac{\text{Sample Area} * \text{Standard Conc} * \text{Multiplication Factor} * \text{Split} * \text{Final Volume} * \text{Dry Weight Factor}}{\text{Standard Area} * \text{Volume or Weight of Sample}}$

File : P1352 Column : 2250/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

4,4'-DDE _____ Standard RT window - 7.73 - 8.05 Sample RT - 8.01
Standard Area - 156901 Sample Area - 21738
Standard Conc(ug/ml) - 0.020 Sample Conc(ug/l) - 0.03 (BCL)
Sample ng on col - 0.002736

DBC _____ Standard RT window - 21.03 - 21.89 Sample RT - 21.42 Primary/Reported GMS
Standard Area - 620526 Sample Area - 499442
Standard Conc(ug/ml) - 0.100 Sample Conc(ug/l) - 0.80 80.49 % Recovery
Sample ng on col - 0.080487

Analyst Comments:



Release: 17084 00 Channel: 1 15.000 100.000
 Sample: 00 310104 100.000 10.000 10.000 10.000
 ZPOO Method: PACY01 Date: 0000 00.00.00 00.00.00
 DT: 01.00 00.00 00.00 00.00 00.00
 00.00 00.00 00.00 00.00 00.00
 00.00 00.00 00.00 00.00 00.00
 00.00 00.00 00.00 00.00 00.00
 00.00 00.00 00.00 00.00 00.00
 00.00 00.00 00.00 00.00 00.00
 00.00 00.00 00.00 00.00 00.00
 00.00 00.00 00.00 00.00 00.00
 00.00 00.00 00.00 00.00 00.00
 Actual run time: 15.000 100.000

RT	W%	Factor	Area	Area %	Name
0.70	0.00	1.0000E+00	1000000.00	100.00	
1.31	0.00	1.0000E+00	1000000.00	100.00	
1.42	0.00	1.0000E+00	1000000.00	100.00	
2.96	0.00	1.0000E+00	1000000.00	100.00	
3.94	0.00	1.0000E+00	1000000.00	100.00	
5.24	0.00	1.0000E+00	1000000.00	100.00	
9.04	0.00	1.0000E+00	1000000.00	100.00	
19.51	0.00	1.0000E+00	1000000.00	100.00	
21.42	0.00	1.0000E+00	1000000.00	100.00	

Total Area = 10000000.00 Total Area % = 100.000000

Processed data file: P135P raw data file: K135P

LAB INSTRUCTIONS:
INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

WORKSHEETS CASE # ^{18410.5} ~~4811~~ COMPUchem # 3021740E-
RECEIPT DATE 11/15/89 Sample Prep Code--- -55
Instrument Code-----144
GC/ECD; PEST/PCB; WATER SOW 2/88 Compound List-----499
Surrogate Std-----395

=====

SAMPLE ID# 738001-13
Blank Associated with Case _____
Associated Blank _____

=====

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 mls
portion of Vol. in pesticide _____

=====

ANALYSIS INFORMATION: COMMENTS Send to QA
 QA Approved
Inst. # / Date Sequence Dil. Fact. Need QC/MS Confirmation

11/18 1 13 1 *DBC*

Analyst 1569/819 Date 11/28/89

=====

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 80 % Recovery
AREA IN STD

% Recovery X 0.1 ug/ml = _____ ug/ml

=====

+EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.
JA = reject acceptable
QA = repeat confirmed original results
OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+= OK
MS = insufficient sample for repeat
DL = DBC low (<20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
GT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

QANA QAN3 QA notice included.

=====

SAMPLE DISPOSITION Cjde

Complete.....
 Requires Re-extraction.. -55
 Requires cleanup..... 901

=====

Audited By _____ Date _____

ASSIGNED TO Mark Pitt
 EMPLOYEE ID # 1858
 CASE # 18410.5

COMPUCHER LABORATORIES
 EXTRACTION WORKSHEET
 EPR LOW LEVEL PESTICIDE WATER

DATE EXTRACTED/POSTED 11-17-89
 QUEUE # 10 (2-88) Reus

SRMPLE NUMBER	EPR ID #	QC SAMPLE TYPE	ORIG #	SAMPLE VOLUME	ALUMINUM START VOL.	FINAL VOL.	COMMENTS
1	302150	738001-15		1000ml.	1.0ml.	10ml.	<u>Use 500ml sample vol. Use 58 only. Add 1.0ml water.</u>
2	302154	738001-16		1000ml.	1.0ml.	10ml.	<u>Use 500ml sample vol. Use 58 only. Add 1.0ml water.</u>
3	302155	738001-20		1000ml.	1.0ml.	10ml.	
4	302157	738001-25		1000ml.	1.0ml.	10ml.	
5	302166	738001-24		1000ml.	1.0ml.	10ml.	
6	302168	738001-21		1000ml.	1.0ml.	10ml.	
7	302172	738001-17		1000ml.	1.0ml.	10ml.	
8	302173	738001-18		1000ml.	1.0ml.	10ml.	
9	302174	738001-13		1000ml.	1.0ml.	10ml.	
10	302175	738001-14		1000ml.	1.0ml.	10ml.	
11	302176	738001-24		1000ml.	1.0ml.	10ml.	
12	302182	738001-23		1000ml.	1.0ml.	10ml.	
13							
14	ALUMINA BULK		B	1.0ml.	1.0ml.	1.0ml.	<u>LOT # 30391 amount 1.0ml # 57</u>
15							
16							
17							
18							
19							
20							
21	303880	PBLK 25	BLANK	1000ml.	1.0ml.	10ml.	
22	303881	PBLK 26	BLANK	1000ml.	1.0ml.	10ml.	

SURB 395 1 ML 30412
 SPIKE 4016 100 UL XX

CHECKED AND VERIFIED III
 CASE DONE (GC LBB)

ROUT. COUNTER 718/
 MANUAL COUNTER 735/511

ALUMINA BATCH # 11-10-89-7C

1057

rec'd GC 11-17-89
 Date 13 Dec 89

COMPOUND LIST NO. - 499

COMPUCHEM # 302174 DATE
 IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA 509 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ / 5 = 1.0
 AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----	 	0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I -----		0.050
12.	0712	ENDOSULFAN II -----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-14

Lab Name: COMPUCHEM LABORATORIES Contract: (2-881-REVS)
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 302175
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/18/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee # 819 on Wed Nov 29, 1989 12:36 pm using EPACA 1.51

CompuChem Number: 302175 Case #: 10410 SDG #: 5 EPA #: 738001-14
 Matrix = Water Level = L Compound List = 175

Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} \times \text{Standard Conc} \times \text{Multiplication Factor} \times \text{Split} \times \text{Final Volume} \times \text{Dry Weight Factor}}{\text{Standard Area} \times \text{Volume or Weight of Sample}}$

File : P1353 Column : 2290/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

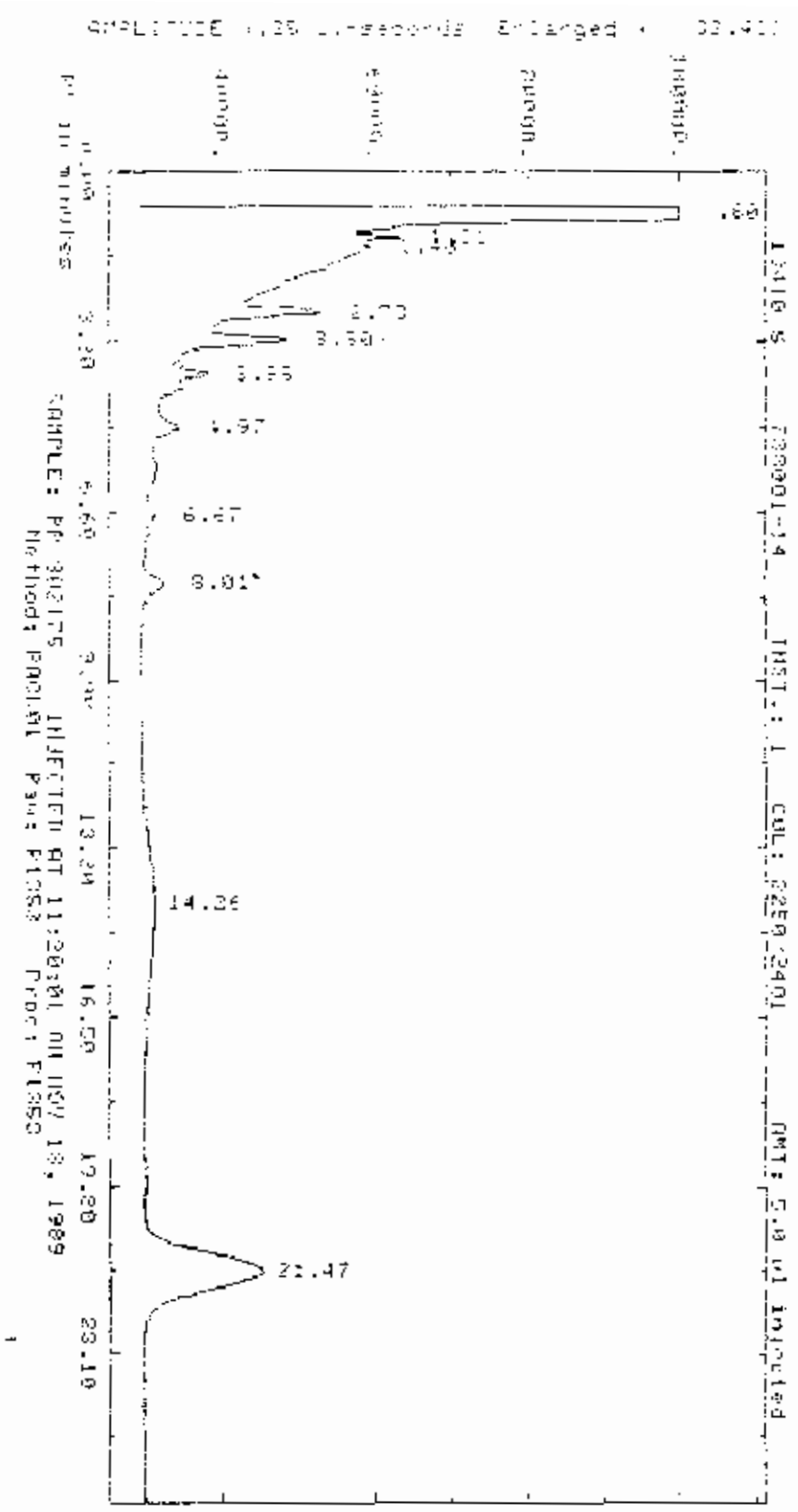
Sample Name	Standard RT window	Standard Area	Standard Conc (ug/ml)	Sample RT	Sample Area	Sample Conc (ug/l)	Sample ng on col	Recovery
beta-BHC	3.27 - 3.41	66680	0.020	3.30	69523	0.21	0.020853	
4,4'-DDE	7.73 - 8.05	158901	0.020	8.01	28669	0.04 (BCL)	0.003608	
OBC	21.03 - 21.89	620926	0.100	21.47	391815	0.63	0.065142	63.14 % Recovery

File : P22716 Column : OV-101 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Sample Name	Standard RT window	Standard Area	Standard Conc (ug/ml)	Sample RT	Sample Area	Sample Conc (ug/l)	Sample ng on col	Recovery
OBC	22.90 - 23.42	630668	0.100	23.15	406676	0.64	0.063532	63.53 % Recovery

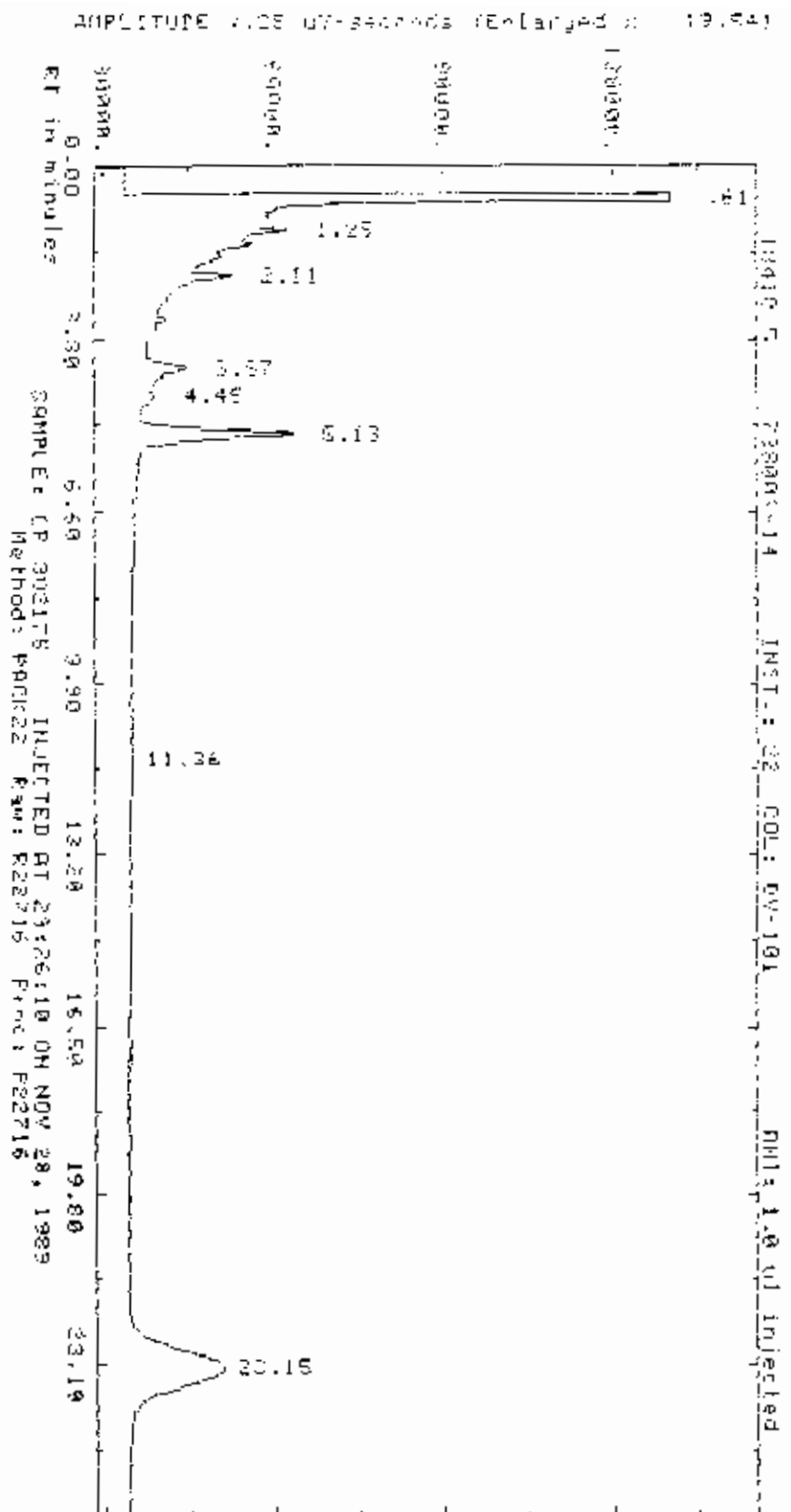
Analyst Comments:

beta-BHC did not confirm on sequence 13.
 CFF
 12/06/89



Report: 13205 80 Channel: 1 19210 07 726711-14
 Sample: 85 302175 Injection: 1 1001 1A 12 19, 1769
 ZAPP Method: PACX01 Seq: 88012 Acquisition: 191 101.12
 Standard: MUMin Delay: 4.00 5.00 1.000
 500 700 0.00 5.00 0.00
 Sample: 90T 10.00 24.00 24.00 24.00 24.00 24.00
 NO 0.00 0 0 0 0 0 0
 Active run time: 24.025 minutes

RT	ITM	Factor	Area	Area %	Name
0.00	0.00	1.0000E+01	10171060	83	52.694
4.74	0.00	1.0000E+01	10111	58	0.01
1.49	0.00	1.0000E+01	21457	69	0.018
2.79	0.00	1.0000E+01	53870	10	0.044
3.30	0.00	1.0000E+01	52134	65	0.027
3.95	0.00	1.0000E+01	17373	66	0.017
4.77	0.00	1.0000E+01	25146	33	0.023
6.67	0.00	1.0000E+01	11987	38	0.012
8.91	0.00	1.0000E+01	28668	33	0.026
14.26	0.00	1.0000E+01	143405	18	0.014
21.47	0.00	1.0000E+01	371614	68	0.033
Total Area =		10906238	Total Area % =		321214.60
Processed data file: P1353			Raw data file: P1353		



Report: 1577 00 Channel 01 10416 S 722001-11
 Sample: 00302170 Injected at 23 25.15 on 02/17/1967
 ZERO Method: P4CR02 Seq: 569317 Tubes/Samp: 1.15 Box: 10
 Slope: 519 HV/Min: .300 Delay: 0.00 Gain: 2100 Bias: 0.00
 Sup-Dub: 00 ID-Lvl: 0 Ref-RTW: 20 X2: 1.0 100.00/100.00
 10 0.00 0

Actual run time: 26.008 minutes

Faded not in baseline

RT	IFM	Factor	Area	AREA %	Name
0.51	0.00	.10000E+01	6367270. 59	20.672	
1.25	0.00	.10000E+01	11823. 00	.165	
2.11	0.00	.10000E+01	13578. 88	.264	
3.07	0.00	.10000E+01	23523. 00	.332	
4.15	0.00	.10000E+01	5146. 88	.072	
5.13	0.00	.10000E+01	137549. 00	2.674	
11.56	0.00	.10000E+01	6641. 00	.095	
23.15	0.00	.10000E+01	400676. 00	5.703	

Total Area = 7925294. Total AREA % = 406626.000

Processed data file: 722716 Raw data file: R22716

LAB INSTRUCTIONS:

INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

WORKSHEETS CASE # ^{18410.5} ~~1044~~COMPUCHEM # 302175BE-
RECEIPT DATE 11/15/89 Sample Prep Code--- -55
GC/ECD; PEST/PCB; WATER SOW 2/88 Instrument Code-----144
Compound List-----499
Surrogate Std-----395

=====

SAMPLE ID# 738001-14
Blank Associated with Case _____
Associated Blank _____

=====

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 ml

portion of Vol. in pesticide _____

=====

ANALYSIS INFORMATION: COMMENTS Send to QA

Inst. # / QA Approved
Date Sequence Dil. Fact. Need QC/MS Confirmation

11/18 1 13 1

BDL

11/28 32 227 1

Analyst 5/19/89 Date 11/29/89

=====

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 64% Recovery
AREA IN STD

% Recovery X 0.1 ug/ml = _____ ug/ml

=====

+EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE
JA = reinject acceptable FROM REPEAT REQUEST FORM IN BOX.

QA = repeat confirmed original results
OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+= CIC
NS = insufficient sample for repeat

DL = DBC low (<20% Recovery)

DA = Dilution Acceptable

BF = Blank Requires Florisil

CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

QANA QAN3 QA notice included.

=====

SAMPLE DISPOSITION Code

Complete.....

Requires Re-extraction.. -55

Requires cleanup..... 901

=====

Audited By _____ Date _____

ASSIGNED TO Mark Bick
 EMPLOYEE ID # 1853
 CASE # 18410.5

COMPUSCHEN LABORATORIES
 EXTRACTION WORKSHEET
 EPH LOW LEVEL PESTICIDE WATER

DATE EXTRACTED/POSTED 11-17-79
 QUEUE # 10 (2-88) Rev 9

SAMPLE NUMBER	EPR ID #	DC TYPE	SAMPLE DRIG #	SAMPLE VOLUME	ALUMINA STRAT VOL.	FINAL VOL.	COMMENTS
1	302150	738001-15		1000ml.	1.0ml.	10ml.	
2	302154	738001-16		1000ml.	1.0ml.	10ml.	
3	302155	738001-20		1000ml.	1.0ml.	10ml.	
4	302157	738001-25		1000ml.	1.0ml.	10ml.	
5	302166	738001-24		1000ml.	1.0ml.	10ml.	
6	302168	738001-21		1000ml.	1.0ml.	10ml.	
7	302172	738001-17		1000ml.	1.0ml.	10ml.	
8	302173	738001-18		1000ml.	1.0ml.	10ml.	
9	302174	738001-23		1000ml.	1.0ml.	10ml.	
10	302175	738001-14		1000ml.	1.0ml.	10ml.	
11	302176	738001-24		1000ml.	1.0ml.	10ml.	
12	302182	738001-23		1000ml.	1.0ml.	10ml.	
13							
14	ALUMINA BK		B	2.0ml.	1.0ml.	1.0ml.	LOT # 30391 amount 1.0ml # 57
15							
16							
17							
18							
19							
20							
21	302880	PBLK 25	BLPINK	1000ml.	1.0ml.	10ml.	
22	302881	PBLK 26	BLPINK	1000ml.	1.0ml.	10ml.	

AMOUNT LOT
 395 1 ML 30412
 SPIKE 4016 100 UL XX

CHECKED RMD VERIFIED
 CASE DONE (GC LAB)

RUTO. COUNTER 718 /
 MINURL COUNTER 725 / 211

RECEIVED
 11/17/79

Rec'd 19 Nov 84
 Done 13 Dec 84

COMPOUND LIST NO. - 499

COMPUCHEM # 302175 DATE
 IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA 80W 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ /5 = 1.0
 AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----		0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I-----		0.050
12.	0712	ENDOSULFAN II-----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----	BDL	0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----	0.50	
25.	0719	AROCHLOR 1254-----	1.0	
26.	0723	AROCHLOR 1260-----	1.0	
27.	0725	TOXAPHENE-----	1.0	

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-15

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 302150
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89
 Extraction: (SepF/Cont/Sonc) SEPP Date Analyzed: 11/17/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

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

CAS NO.	COMPOUND	UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1569 on Tue Nov 28, 1989 8:50 am using EPACA 1.51

CompuChem Number:302150 Case#:10410 SDG #:5 EPA#:738001-15
Matrix = Water Level = L Compound List = 175

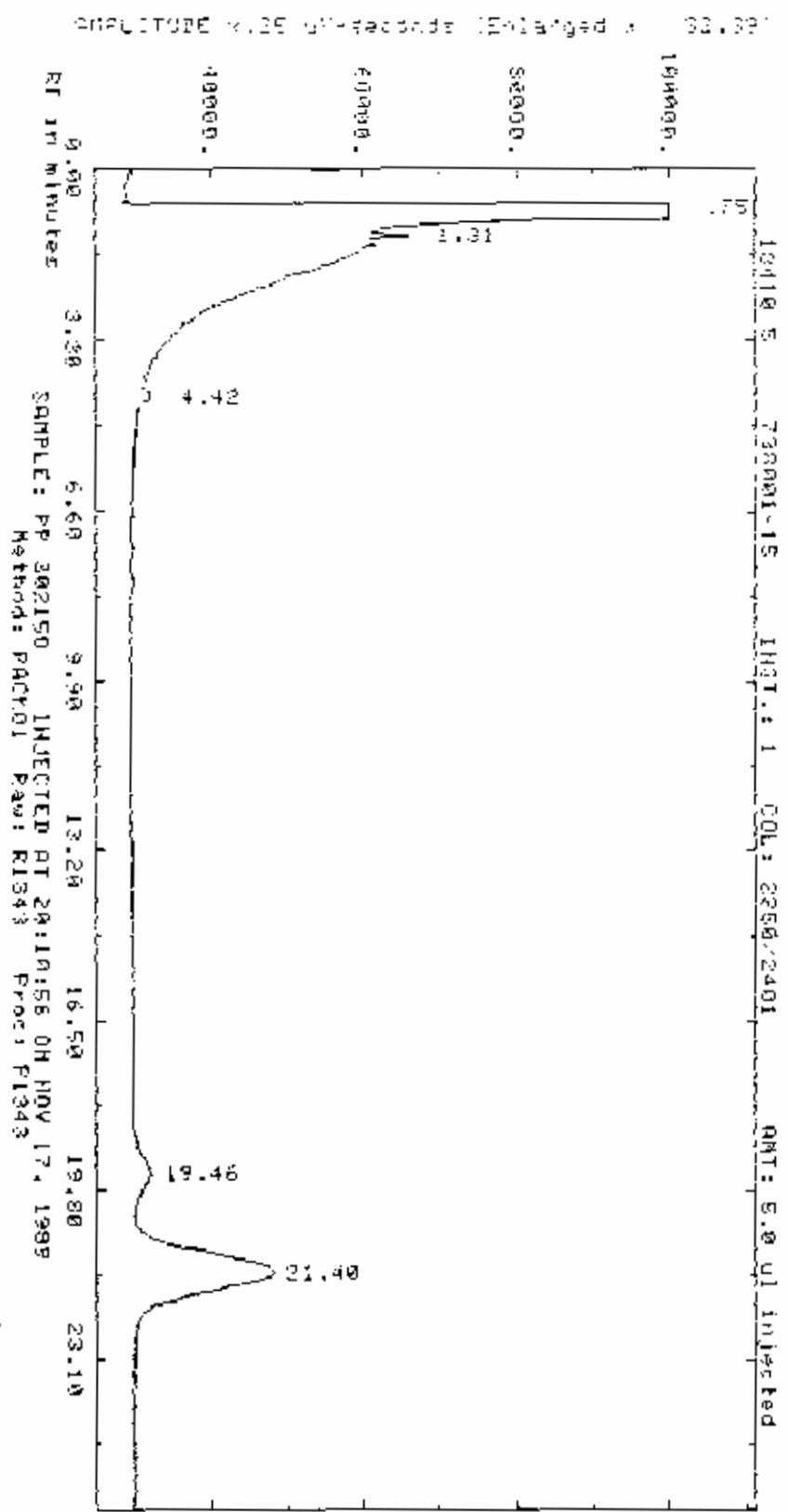
Volume/weight extracted = 1000.00 mL Final Extract Volume = 10.00 mL Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} \times \text{Standard Conc} \times \text{Multiplication Factor} \times \text{Split} \times \text{Final Volume} \times \text{Dry Weight Factor}}{\text{Standard Area} \times \text{Volume or Weight of Sample}}$

File : P1343 Column : 2250/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

DBC_____	Standard RT window - 21.03 - 21.89	Sample RT -	21.40	Primary/Reported OADS
	Standard Area -	620526	Sample Area -	451432
	Standard Conc(ug/mL) -	0.100	Sample Conc(ug/L) -	0.75 72.75 % Recovery
			Sample ng on cat -	0.072750

Analyst Comments:



Report: 13888.00 Channel: 1 19:10 5 /35P01-15
 Sample: PP 302150 Injected: 1: 50 18.50 60 sec/ 17, 1802
 ZERO Method: PACK91 Seq. 00013 Sub-4/5amp 1.93 611.43
 Sl-Width HV/Min Delay Cap. Sec. 0.00 40.00
 Sub-Unit Det ID-Lvl Ref. TW %RTN %Dil-f Tot
 NO 0.00 0 1.00 5.0 100.00 NO

Actual run time: 28 017 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
0.75	0.00	.10000E+01	412975.00	45.018	
1.31	0.00	.10000E+01	10124.00	1.088	
4.42	0.00	.10000E+01	5683.00	.612	
19.46	0.00	.10000E+01	42264.00	4.560	
21.40	0.00	.10000E+01	451432.00	48.822	
Total Area = 928459			Total AREA % = 451432.000		
Processed data file: P1343			Raw data file: R1343		

LAB INSTRUCTIONS:

INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

WORKSHEETS CASE # ^{14910.5} ~~144~~ COMPUCHER # 30215006
RECEIPT DATE 11/15/89 Sample Prep Code--- -55
Instrument Code-----144
GC/ECD; PEST/PCB; WATER SOW 2/88 Compound List-----499
Surrogate Std-----395

=====

SAMPLE ID# 738001-15
Blank Associated with Case _____
Associated Blank _____

=====

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 ml
portion of Vol. in pesticide _____

=====

ANALYSIS INFORMATION: COMMENTS: Send to QA
 QA Approved
 Need GC/MS Confirmation

Inst. # /
Date Sequence Dil. Fact. 11/19 1 13 1 *DBC*

Analyst 1569/819 Date 11/28/89

=====

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 73 X Recovery
AREA IN STD

X Recovery X 0.1 ug/ml = _____ ug/ml

- =====
- +EA = re-extract acceptable
 - JA = reinject acceptable
 - QA = repeat confirmed original results
 - OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+= ok
 - NS = insufficient sample for repeat
 - DL = DBC low (<20% Recovery)
 - DA = Dilution Acceptable
 - BF = Blank Requires Florisil
 - CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

QANA QANJ GA notice included.

=====

SAMPLE DISPOSITION Code

- Complete.....
- Requires Re-extraction.. -55
- Requires cleanup..... 901

=====

Audited By _____ Date _____

ASSIGNED TO Mark J. Jester
 EMPLOYEE ID # 18410.5
 CASE # 18410.5

COMPUCHEM LABORATORIES
 EXTRACTION WORKSHEET
 EPR LOW LEVEL PESTICIDE WRITER
 -055
 DATE EXTRACTED/POSTED 11-17-89
 QUEUE # 10
 (2-88) Reus

SAMPLE NUMBER	EPA ID #	DC TYPE	SAMPLE ORIG #	SAMPLE VOLUME	ALUMINA STRAT VOL	FINL VOL.	COMMENTS
1	302150	738001-15		1000ml.	1.0ml.	10ml.	USE 500ml sample vol for GC only. Add 8ml conc. Add 50ul spike conc. to 50ml final volume.
2	302154	738001-16		1000ml.	1.0ml.	10ml.	
3	302155	738001-22		1000ml.	1.0ml.	10ml.	
4	302157	738001-23		1000ml.	1.0ml.	10ml.	
5	302166	738001-24		1000ml.	1.0ml.	10ml.	
6	302168	738001-21		1000ml.	1.0ml.	10ml.	
7	302172	738001-17		1000ml.	1.0ml.	10ml.	
8	302173	738001-18		1000ml.	1.0ml.	10ml.	
9	302174	738001-13		1000ml.	1.0ml.	10ml.	
10	302175	738001-14		1000ml.	1.0ml.	10ml.	
11	302176	738001-24		1000ml.	1.0ml.	10ml.	
12	302182	738001-23		1000ml.	1.0ml.	10ml.	
13							
14	ALUMINA BK		B	1.0ml.	1.0ml.	1.0ml.	LOT # 30391 AMOUNT 1.0ML # 57
15							
16							
17							
18							
19							
20							
21	303880	PBLK 25	BLANK	1000ml.	1.0ml.	10ml.	
22	303891	PBLK 26	BLANK	1000ml.	1.0ml.	10ml.	rec'd GC 11-17-89

RNDUNT 30412 LOT
 SARR 995 1 ML
 SPIKE 4016 100 UL
 CHECKED RND VERIFIED 11/17/89 (GC LAB)
 CASE DONE
 AUTO. COUNTER 728
 MANUAL COUNTER 735 / 511
 RECEIVED 15 NOV 89
 DUE 13 DEC 89
 RECEIVED 11/17/89
 DUE 13 DEC 89
 RECEIVED 11/17/89
 DUE 13 DEC 89

COMPOUND LIST NO. - 499

COMPUCHER # 302150 DATE
 IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA SOW 2/88

DIL FACT _____ DRY WT _____ 1.0_SPLIT _____ FINAL VOL _____ /5 = $\frac{1.0}{1.0}$
 AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHER COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----	BDL	0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I -----		0.050
12.	0712	ENDOSULFAN II -----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-16

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 10410 SAS No.: _____ SDG No.: 5

Matrix: (soil/water) WATER Lab Sample ID: 302154

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

Level: (low/med) LOW Date Received: 11/15/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	<u>Q</u>
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1569 on Tue Nov 28, 1989 8:51 am using EPACA 1.51

CompuChem Number:302154 Case#:18410 SDG #:5 EPA#:738001-16
 Matrix = Water Level = L Compound List = 175

Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

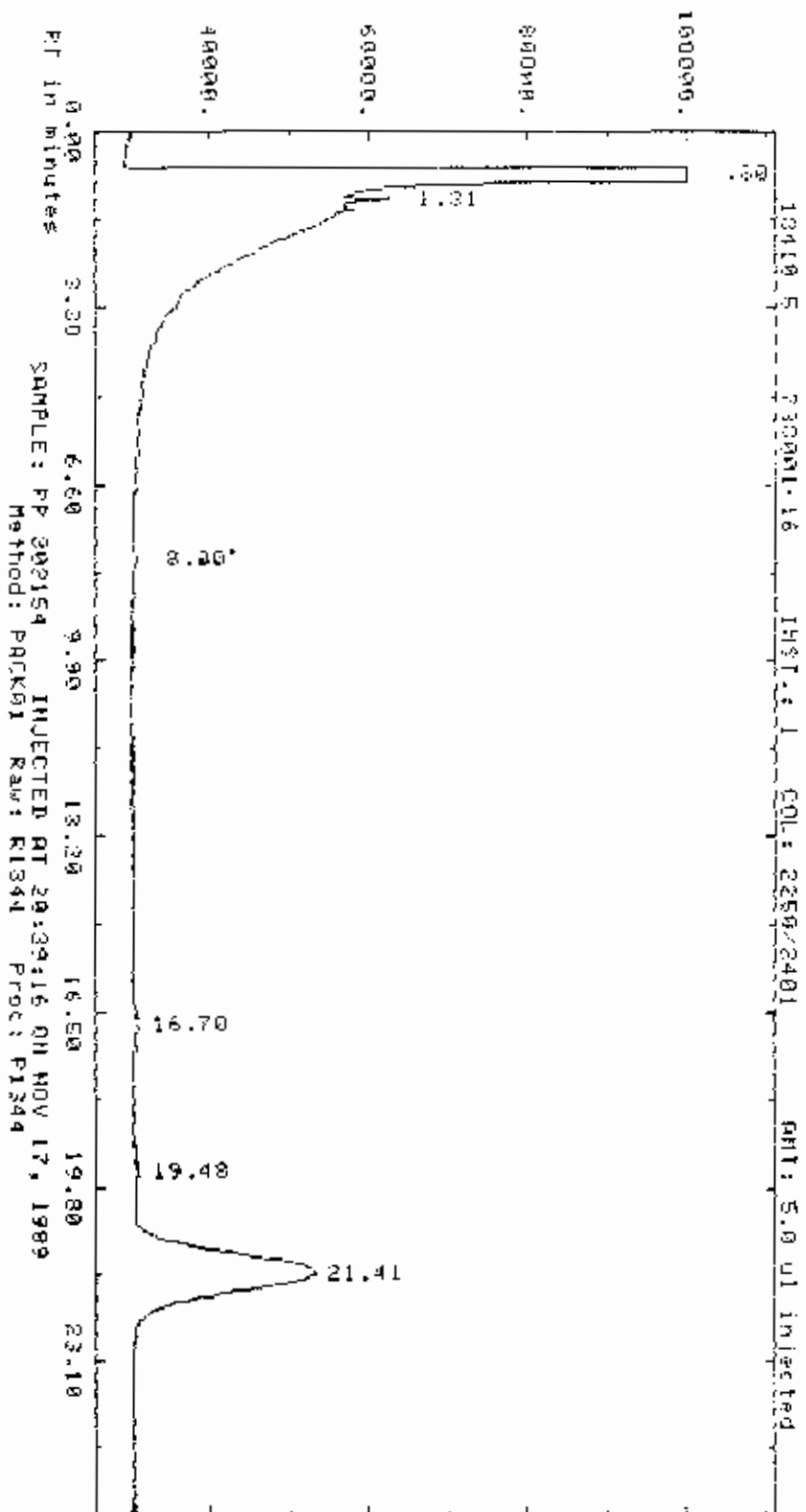
Concentration = $\frac{\text{Sample Area} \times \text{Standard Conc} \times \text{Multiplication Factor} \times \text{Split} \times \text{Final Volume} \times \text{Dry Weight Factor}}{\text{Standard Area} \times \text{Volume or Weight of Sample}}$

File : P1344 Column : 2250/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

4,4'-DDE	Standard RT window - 7.75 - 8.05	Standard Area - 158901	Standard Conc(ug/ml) - 0.020	Sample RT - 8.00	Sample Area - 3125	Sample Conc(ug/l) - 0.01 (BDC)	Sample ng on col - 0.000645
DDE	Standard RT window - 21.03 - 21.89	Standard Area - 620526	Standard Conc(ug/ml) - 0.100	Sample RT - 21.41	Sample Area - 573168	Sample Conc(ug/l) - 0.92	Sample ng on col - 0.092368

92.37 % Recovery

Analyst Comments:



Report: 13897 00 Casacal: 1 1844 3 756031-16
 Sample PP 302154 Injected at 10:39:15 01 00 17, 1967
 ZERO Method: PACK01 Seq: 05013 Subseq: 1344 Rtl: 34
 Sl-width 1500 MU/Min 300 Delay 0.00 Run-Or 5000 Bunch 600
 Sub-Unit NO QVT 0.00 ID-Loi 0 Ref-RTU 30 KRTU 5 0 ZB1-? 100.00 Iso 80
 Actual run time: 26.117 minutes
 Ended net as baseline

RT	LTH	Factor	Area	AREA %	Gain
30	0.00	1.0000E+01	2992620	50	94.207
31	0.00	1.0000E+01	11175	16	.186
32	0.00	1.0000E+01	5126	83	1.049
33	0.00	1.0000E+01	11225	26	1.027
34	0.00	1.0000E+01	2609	38	1.032
35	0.50	1.0000E+01	573168	86	5.647
Total Area =			10519032.	Total AREA % = 573168.000	
Processed data file: P1344			Raw data file: R1344		

LAB INSTRUCTIONS:

INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

WORKSHEETS

CASE # ^{18410.5} ~~484~~ +COMPUchem # 302154WE-

RECEIPT DATE 11/15/89

Sample Prep Code--- -55
Instrument Code----144
Compound List-----499
Surrogate Std-----395

GC/ECD; PEST/PCB; WATER SOW 2/88

=====

SAMPLE ID# 738001-15
Blank Associated with Case _____
Associated Blank _____

=====

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 mls

portion of Vol. in pesticide _____

=====

ANALYSIS INFORMATION: COMMENTS Send to QA
 QA Approved
 Need GC/MS Confirmation

Inst. # / Date Sequence Dil. Fact. 1117 1 13 1 *BDL*

=====

Analyst 1569/819 Date 11/28/89

=====

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 92 % Recovery
AREA IN STD

% Recovery X 0.1 ug/ml = _____ ug/ml

=====

+EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE
JA = reinject acceptable FROM REPEAT REQUEST FORM IN BOX.
QA = repeat confirmed original results
OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+= OK
NS = insufficient sample for repeat
DL = DBC low (<20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

GANA GAN3 QA notice included.

=====

SAMPLE DISPOSITION Code

Complete.....
 Requires Re-extraction.. -55
 Requires cleanup..... 901

=====

Audited By _____ Date _____

ASSIGNED TO *Mark Bisset*
 EMPLOYEE ID # *1852*

COMPUCHER LABORATORIES
 EXTRACTION WORKSHEET
 EPR LOW LEVEL PESTICIDE WATER

DATE EXTRACTED/POSTED *11-17-89*

CASE # *18410.5*

-055

QUEUE # 10 (2-89) Reus

SAMPLE NUMBER	EPR ID #	OC TYPE	SAMPLE ORIG #	SAMPLE VOLUME	ALUMINA START VOL.	FINAL VOL.	COMMENTS
1	302150	738001-15		1000ml.	1.0ml.	10ml.	<i>Non-Solvent sample vol. for St. Colic. Add 1.0ml. solvent.</i>
2	302154	738001-16		1000ml.	1.0ml.	10ml.	<i>Non-Solvent sample vol. for St. Colic. Add 1.0ml. solvent.</i>
3	302155	738001-22		1000ml.	1.0ml.	10ml.	
4	302157	738001-21		1000ml.	1.0ml.	10ml.	
5	302166	738001-24		1000ml.	1.0ml.	10ml.	
6	302168	738001-21		1000ml.	1.0ml.	10ml.	
7	302172	738001-17		1000ml.	1.0ml.	10ml.	
8	302173	738001-18		1000ml.	1.0ml.	10ml.	
9	302174	738001-13		1000ml.	1.0ml.	10ml.	
10	302175	738001-14		1000ml.	1.0ml.	10ml.	
11	302176	738001-24		1000ml.	1.0ml.	10ml.	
12	302182	738001-23		1000ml.	1.0ml.	10ml.	
13							
14	ALUMINA BLKS	B		1.0ml.	1.0ml.	1.0ml.	<i>Lot # 30391 amount 1.0ml # 57</i>
15							
16							
17							
18							
19							
20							
21	302880	BLK 25	BLNK	1000ml.	1.0ml.	10ml.	
22	302881	BLK 26	BLNK	1000ml.	1.0ml.	10ml.	

* AMOUNT LDT
 SUBR 395 1 ML *30412*
 SPIKE 4016 100 UL *XX*
 CHECKED RND VERIFIED *11/18/89* (GG LAB)
 CASE DONE (GG LAB)
 AUTO. COUNTER 718/
 MANUAL COUNTER 735/511

FLUORINE BATCH # *11-10-89-92*

11/18/89
1852

Rec'd GC 11-17-89
Dec 15 Nov 89
Dec 13 Dec 89

COMPOUND LIST NO. - 499

COMPUCHEN # 302154 DATE
 IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA 504 2/88

DIL FACT _____ DRY WT _____ 1.0_SPLIT _____ FINAL VOL _____ /5 = 1.0
 AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEN COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----		0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I -----		0.050
12.	0712	ENDOSULFAN II -----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0719	ENDRIN KETONE-----	<i>BDL</i>	0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-17

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5

Matrix: (soil/water) WATER Lab Sample ID: 302172

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

Level: (low/med) LOW Date Received: 11/15/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/18/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1569 on Tue Nov 28, 1989 8:56 am using EPACA 1.51

CompuChem Number:302172 Case#:18410 SDG #:5 EPA#:738001-17
Matrix = Water Level = L Compound List = 175

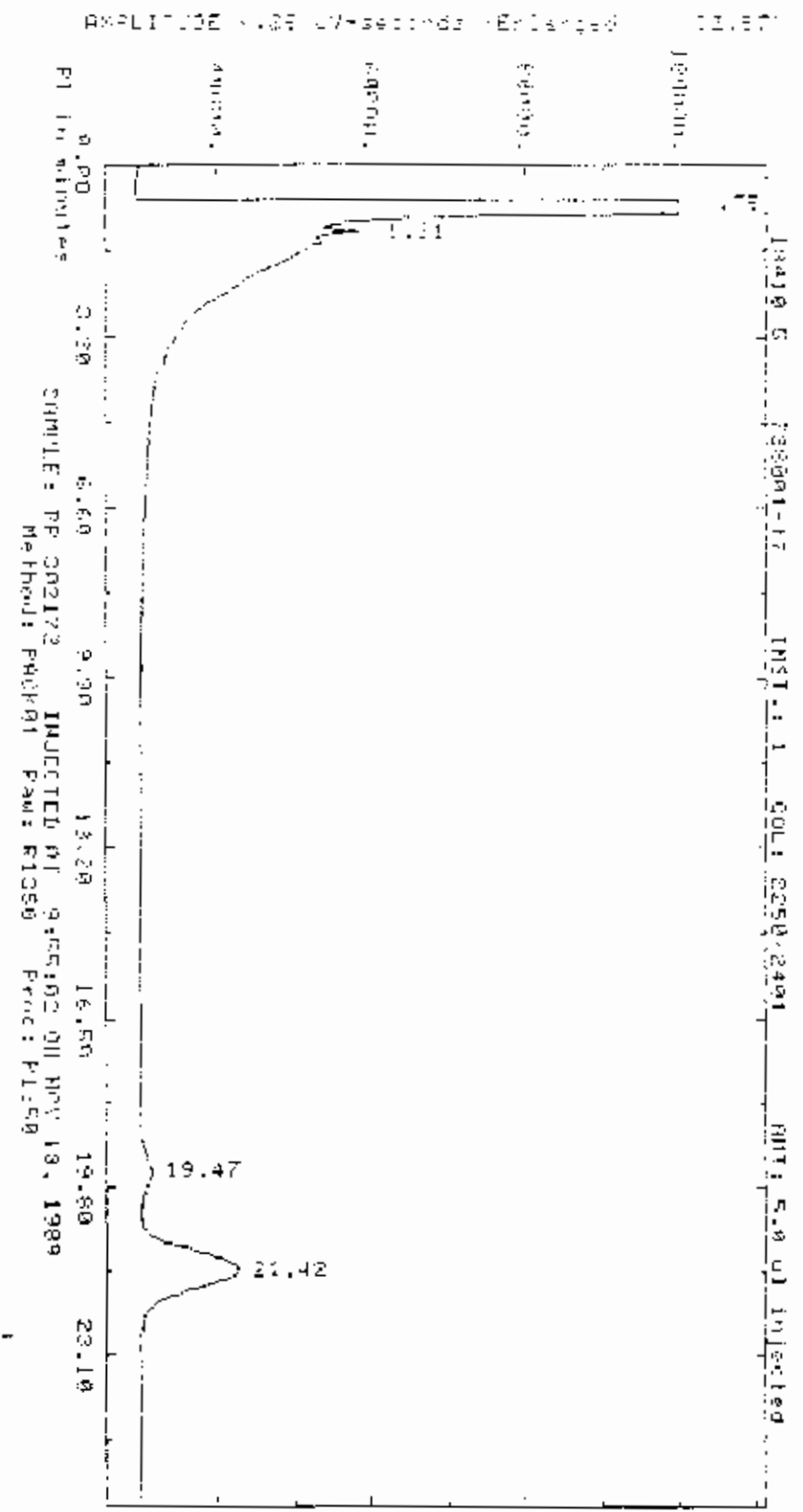
Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} \times \text{Standard Conc} \times \text{Multiplication Factor} \times \text{Split} \times \text{Final Volume} \times \text{Dry Weight Factor}}{\text{Standard Area} \times \text{Volume or Weight of Sample}}$

File : P1350 Column : 225D/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

OBC_____	Standard RT window - 21.03 - 21.89	Sample RT -	21.42	Primary/Reported OADS
	Standard Area - 620326	Sample Area -	51318	
	Standard Conc(ug/ml) - 0.100	Sample Conc(ug/L) -	0.51	50.78 % Recovery
		Sample ng on col -	0.050782	

Analyst Comments:



Report: 13903 04 Channel: 4 13411 5 200001 11
 Sample: RP 302172 Inject: 1 at 10:55:02 on 10/13/78
 ZSRD Method: PAK01 Seq: 0017 Sub: 000000 1000 000000
 El-width: 500 MPXMin: .300 Delay: 0.00 Inj-Port: 1000 Inj-Port: 0000
 Sup-Hab: 001 10-101 240-111 4812 201100 100
 00 0.00 1 100 0.0 100.00 00
 Actual run time: 26.009 minutes

RT	IMP	Factor	Area	AREA %	Name
05.00		.10000E+01	9505714	08	76.445
1.31	0.00	.10000E+01	9200	00	0.000
19.17	0.00	.10000E+01	26984	03	1.273
21.42	0.00	.10000E+01	34517	03	3.164
Total Area =		9597604	Total AREA % =		31517.600
Processed data file: PAK50			Raw data file: 01350		

LAB INSTRUCTIONS:
INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

WORKSHEETS CASE # ^{18410.5} ~~18410.5~~ COMPUCHEM # 3021720E
RECEIPT DATE 11/15/89 Sample Prep Code--- -55
Instrument Code-----144
GC/ECD; PEST/PCB; WATER SOW 2/88 Compound List-----499
Surrogate Std-----395

=====

SAMPLE ID# 738001-17
Blank Associated with Case _____
Associated Blank _____

=====

EXTRACTION INFORMATION: CALC Used? yes |___|

Vol. of sample 1000 ml final volume of extract 10 ml

portion of Vol. in pesticide _____

=====

ANALYSIS INFORMATION:	COMMENTS:	___ Send to QA
Inst. # /		___ GA Approved
Date Sequence Dil. Fact.		___ Need GC/MS Confirmation
<u>11/18</u> <u>1</u> <u>13</u> <u>1</u>	<u>BOX</u>	

=====

Analyst 1569/5/19 Date 11/28/89

=====

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 51 % Recovery
AREA IN STD

% Recovery X 0.1 ug/ml = _____ ug/ml

=====

+EA = re-extract acceptable	IF DATA FAILS, INSERT CONDITION CODE
JA = reinject acceptable	FROM REPEAT REQUEST FORM IN BOX.
QA = repeat confirmed original results	
OK = original data acceptable (not for REPEATS)	FINAL STATUS CODE+= <u>OK</u>
NS = insufficient sample for repeat	
DL = DBC low (<20% Recovery)	
DA = Dilution Acceptable	
BF = Blank Requires Florisil	
CT = Contamination Suspected	

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

|___| QANA |___| QAN3 QA notice included.

=====

SAMPLE DISPOSITION Code

|___| Complete.....

|___| Requires Re-extraction.. -55

|___| Requires cleanup..... 901

=====

Audited By _____ Date _____

ASSIGNED TO Mark Biss
 EMPLOYEE ID # 1258

COMPUCHER LABORATORIES
 EXTRACTION MDRSHEET
 EPA LDM LEVEL PESTICIDE WRITER

DATE EXTRACTED/POSTED 11-17-79

CRSE # 18410.5

-055

QUEUE # 10

(2-98) Reus

SAMPLE NUMBER	EPA ID	DC TYPE	SAMPLE ORIG	SAMPLE VOLUME	ALUMINA START VOL	FINAL VOL	COMMENTS
302150	738001-15			1000ml.	1.0ml.	10ml.	Use small sample vol for SS only - Add 8.0ml water. Add 5.0ml water. Cap. 2x. 5.0ml final volume.
302154	738001-16			1000ml.	1.0ml.	10ml.	
302155	738001-22			1000ml.	1.0ml.	10ml.	
302157	738001-25			1000ml.	1.0ml.	10ml.	
302166	738001-24			1000ml.	1.0ml.	10ml.	
302168	738001-21			1000ml.	1.0ml.	10ml.	
302172	738001-17			1000ml.	1.0ml.	10ml.	
302173	738001-18			1000ml.	1.0ml.	10ml.	
302174	738001-13			1000ml.	1.0ml.	10ml.	
302175	738001-14			1000ml.	1.0ml.	10ml.	
302176	738001-24			1000ml.	1.0ml.	10ml.	
302182	738001-23			1000ml.	1.0ml.	10ml.	
ALUMINA BKS		B		2.0ml.	1.0ml.	1.0ml.	LOT # 30391 amount 1.0ml. # 57
303880	BLK 25	BLANK		1000ml.	1.0ml.	10ml.	
303881	BLK 26	BLANK		1000ml.	1.0ml.	10ml.	

* RMOUNT LOT 30412
 SURQ 395 I ML
 SPIKE 4016 100 UL XX
 CHECKED RMR VERIFIED LGT:SA (GC LAB)
 CASE DONE (GC LAB)
 AUTO. COUNTER 710 /
 MANUAL COUNTER 735 / 511

ALUMINA BATCH # 11-10-89-9C

RECEIVED
 11-17-79

Rec'd 15 Nov 89
 Done 13 Dec 89

COMPOUND LIST NO. - 499

COMPUCHEM # 302172 DATE
IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA 504 2/88

DIL FACT _____ DRY WT _____ 1.0_SPLIT _____ FINAL VOL _____ /5 = 1.0
AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----	/	0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I-----		0.050
12.	0712	ENDOSULFAN II-----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-18

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: CONPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 302173
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/18/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1569 on Tue Nov 28, 1989 8:57 am using EPACA 1.51

CompuChem Number:302173 Case#:18410 SDG #:5 EPA#:738001-18
 Matrix = Water Level = L Compound List = 175

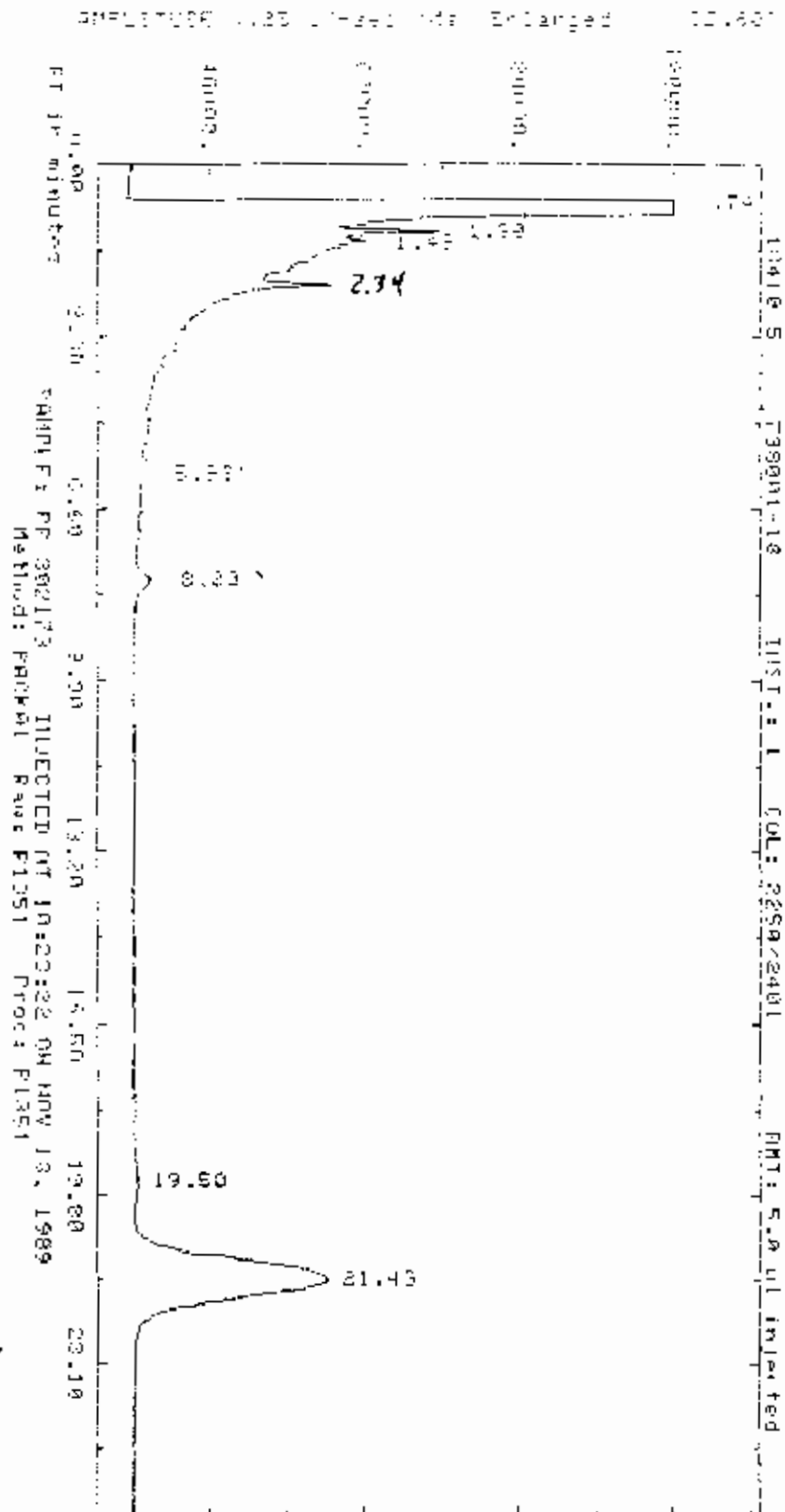
Volume/weight extracted = 1000.00 mL Final Extract Volume = 10.00 mL Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} \times \text{Standard Conc} \times \text{Multiplication Factor} \times \text{Split} \times \text{Final Volume} \times \text{Dry Weight Factor}}{\text{Standard Area} \times \text{Volume or Weight of Sample}}$

File : P1351 Column : 2250/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Compound	Standard RT window	Standard Area	Standard Conc(ug/ml)	Sample RT	Sample Area	Sample Conc(ug/L)	Sample ng on col
Heptachlor epoxide	5.90 - 6.14	89428	0.010	5.93	6002	0.01 (BDL)	0.000671
4,4'-DDE	7.73 - 8.05	158901	0.020	8.00	19921	0.03 (BDL)	0.002907
DDE	21.03 - 21.89	620526	0.100	21.43	631872	1.02	0.101829

Analyst Comments:



Report: 13973.70 Channel: 1 Date: 11/11/12 Time: 10:15

Operator: PP 302173 Project: 12-12-12-00-00-10-000

SEED Method: BACKST Seed: 557.0 Sample Size: 1000000

RT=0.00	NU=300	Rel=0.00	Area=0.00	AREA %		
0.00	300	0.00	0.00	0.00		
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00

Actual run time: 26.917 minutes

RT	ITM	Factor	Area	AREA %	Name
0.74	0.00	1.0000E+01	10529748	53	13.60%
1.30	0.00	1.0000E+01	37639	53	0.22%
1.42	1.00	1.0000E+01	5843	53	0.14%
5.93	0.00	1.0000E+01	6000	53	0.16%
8.00	0.00	1.0000E+01	19921	53	1.0%
19.50	0.00	1.0000E+01	9744	53	0.91%
21.43	0.00	1.0000E+01	631872	53	7.33%

Total Area = 19779754. Total AREA % = 631872.00%

Processed data file: P1351 Raw data file: F1351

LAB INSTRUCTIONS:

INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

WORKSHEETS
RECEIPT DATE 11/15/89

18410.5
CASE # ~~184~~ COMPUchem # 3021730E

Sample Prep Code--- -55
Instrument Code-----144
Compound List-----499
Surrogate Std-----395

GC/ECD; PEST/PCB; WATER SOW 2/88

=====

SAMPLE ID# 738001-18
Blank Associated with Case _____
Associated Blank _____

=====

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 ml

portion of Vol. in pesticide _____

=====

ANALYSIS INFORMATION: COMMENTS | | Send to QA
| | QA Approved
| | Need GC/MS Confirmation

Inst. # / Date Sequence Dil. Fact. | 1118 | 1 | 13 | 1 | BDL

_____ | _____ | _____ | _____ | _____

Analyst 1529/819 Date 11/28/89

=====

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 102 % Recovery
AREA IN STD

% Recovery X 0.1 ug/ml = _____ ug/ml

=====

+EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE
JA = reinject acceptable FROM REPEAT REQUEST FORM IN BOX.
QA = repeat confirmed original results
OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+= OK
NS = insufficient sample for repeat
DL = DBC low (<20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

QANA QAN3 QA notice included.

=====

SAMPLE DISPOSITION Code

Complete.....
 Requires Re-extraction.. -55
 Requires cleanup..... 901

=====

Audited By _____ Date _____

ASSIGNED TO *Mark Davis*
 EMPLOYEE ID *1155*

COMPUCHER LABORATORIES
 EXTRACTOR WORKSHEET
 EPA LOW LEVEL PESTICIDE WATER

DATE EXTRACTED/POSTED *11-17-79*

CASE # *18410.5*

-055

QUEUE # 10 *(2-88) Revis*

SAMPLE NUMBER	EPA ID #	OC TYPE	SAMPLE ORIG	SAMPLE VOLUME	ALUMINA STRT VOL	FINAL VOL.	COMMENTS
1	302150	738001-15		1000ml.	1.0ml.	10ml.	<i>Use 500ml sample vol for 50 only and 0.5ml for water.</i>
2	302154	738001-16		1000ml.	1.0ml.	10ml.	<i>Use 500ml sample vol for 50 only and 0.5ml for water.</i>
3	302155	738001-22		1000ml.	1.0ml.	10ml.	<i>Use 500ml sample vol for 50 only and 0.5ml for water.</i>
4	302157	738001-23		1000ml.	1.0ml.	10ml.	<i>Use 500ml sample vol for 50 only and 0.5ml for water.</i>
5	302166	738001-24		1000ml.	1.0ml.	10ml.	<i>Use 500ml sample vol for 50 only and 0.5ml for water.</i>
6	302168	738001-21		1000ml.	1.0ml.	10ml.	<i>Use 500ml sample vol for 50 only and 0.5ml for water.</i>
7	302172	738001-17		1000ml.	1.0ml.	10ml.	<i>Use 500ml sample vol for 50 only and 0.5ml for water.</i>
8	302173	738001-18		1000ml.	1.0ml.	10ml.	<i>Use 500ml sample vol for 50 only and 0.5ml for water.</i>
9	302174	738001-13		1000ml.	1.0ml.	10ml.	<i>Use 500ml sample vol for 50 only and 0.5ml for water.</i>
10	302175	738001-14		1000ml.	1.0ml.	10ml.	<i>Use 500ml sample vol for 50 only and 0.5ml for water.</i>
11	302176	738001-24		1000ml.	1.0ml.	10ml.	<i>Use 500ml sample vol for 50 only and 0.5ml for water.</i>
12	302182	738001-23		1000ml.	1.0ml.	10ml.	<i>Use 500ml sample vol for 50 only and 0.5ml for water.</i>
13							
14	ALUMINA BULK		B	2.0ml.	1.0ml.	1.0ml.	<i>LOT # 30391 PREPARED 1.0ML. # 57</i>
15							
16							
17							
18							
19							
20	302880	PBLK 25	BULK	1000ml.	1.0ml.	10ml.	
21	302881	PBLK 26	BULK	1000ml.	1.0ml.	10ml.	
22							

AMOUNT LOT
 SUPR 395 1 ML *30412*
 SPIKE 4016 100 U/L *XX*
 CHECKED AND VERIFIED *11/17/79* (GC LAB)
 CASE DONE *11-18-89-79* (GC LAB)
 AUTO. COUNTED 718/
 MANUAL COUNTED 725/*511*

11/17/79
MSK

COMPOUND LIST NO. - 499

COMPUCEM # 302173 DATE IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA SOW 2/88

DIL FACT _____ DRY WT _____ 1.0_SPLIT _____ FINAL VOL _____ /S = 1.0 AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----	 	0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I -----		0.050
12.	0712	ENDOSULFAN II -----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

BDL

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-21

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5

Matrix: (soil/water) WATER Lab Sample ID: 302168

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

Level: (low/med) LOW Date Received: 11/15/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/22/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1569 on Tue Nov 28, 1989 11:10 am using EPACA 1.51

CompuChem Number: 302168 Case#: 18410 SDG #: 5 EPA#: 738001-21
 Matrix = Water Level = L Compound List = 175

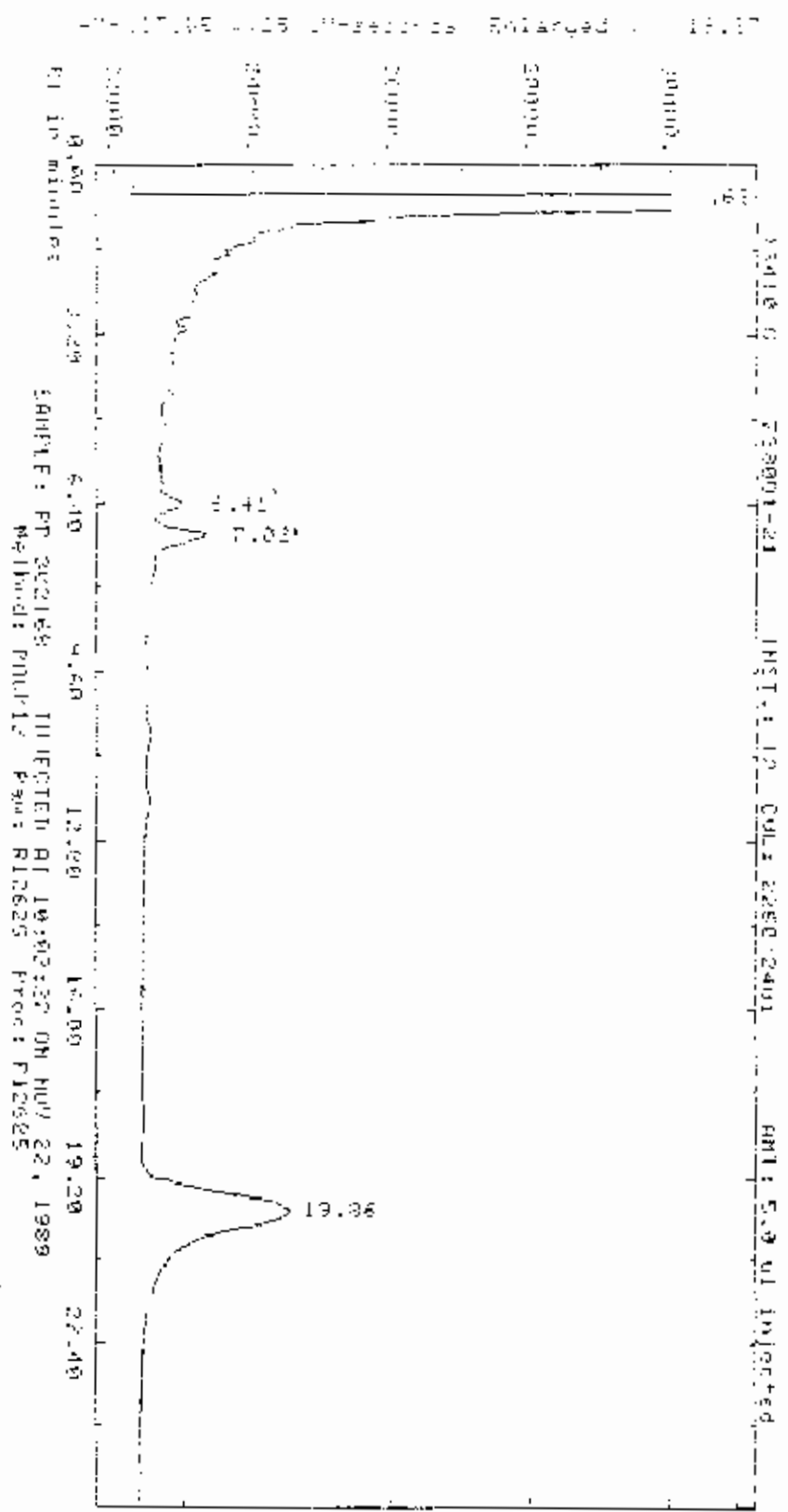
Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} * \text{Standard Conc} * \text{Multiplication Factor} * \text{Split} * \text{Final Volume} * \text{Dry Weight Factor}}{\text{Standard Area} * \text{Volume or Weight of Sample}}$

File : P12625 Column : 2250/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

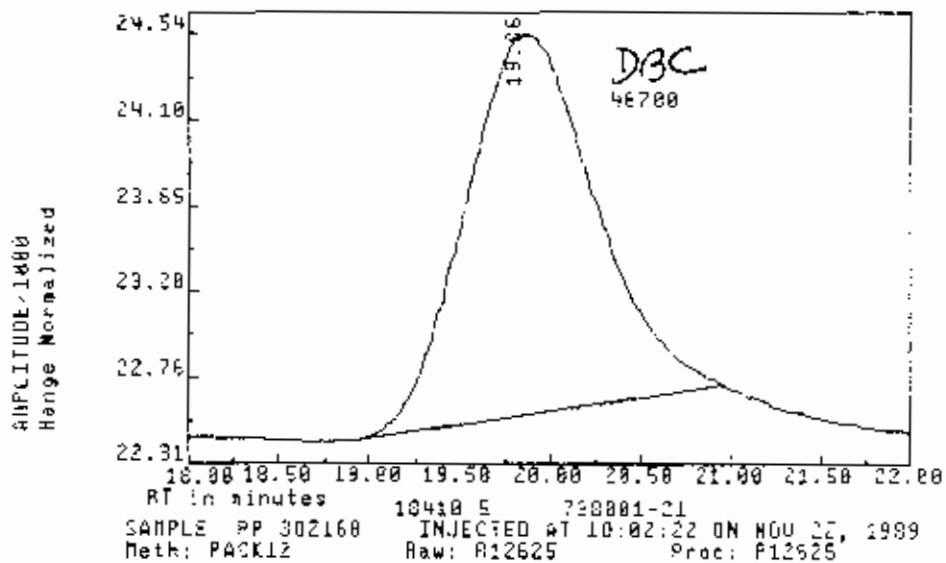
Erdosulfan I _____	Standard RT window -	6.36 - 6.62	Sample RT -	6.41	
	Standard Area -	18711	Sample Area -	3860	
	Standard Conc(ug/ml) -	0.010	Sample Conc(ug/l) -	0.02 (BDL)	Sample ng on col - 0.002063
4,4'-DDE _____	Standard RT window -	6.85 - 7.15	Sample RT -	7.02	
	Standard Area -	16106	Sample Area -	7172	
	Standard Conc(ug/ml) -	0.020	Sample Conc(ug/l) -	0.09 (BDL)	Sample ng on col - 0.008906
DDE _____	Standard RT window -	19.57 - 20.37	Sample RT -	19.86	Primary/Reported QADS
	Standard Area -	35004	Sample Area -	48700	
	Standard Conc(ug/ml) -	0.100	Sample Conc(ug/l) -	1.39	139.15 X Recovery Sample ng on col - 0.139126

Analyst Comments:



Report: 4842.DD Channel: 12 1/20/92 11:11 AM
 Sample: PD 289168 Injection: 1.000ml at 10.00, 1.00
 Method: PAK12 Sec: 180.00 2.00 min. 10.00 5.00
 RT=10.00 H/M/In Delay 0.100 0.100 0.100
 000 300 1.00
 Qual: 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 NO 0.00 0.00 0.00 0.00 0.00 0.00 0.00
 Actual Samples: 35.517 samples

RT	ITM	Factor	Area	Area%	Mass
1.42	0.00	1.0000E+01	545177	83	107.085
6.41	0.00	1.0000E+01	7000	85	1.400
7.02	0.00	1.0000E+01	7000	88	1.400
19.86	0.00	1.0000E+01	65534	93	13.107
Total Area =			621873.	Total Area % = 6534.000	
Processed data file: P12625			Raw data file: P12625		



LAB INSTRUCTIONS:
INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

WORKSHEETS CASE # 18410.5 ~~4844~~COMPUCHEM # 3021680E
RECEIPT DATE 11/15/89 Sample Prep Code---- -55
Instrument Code-----144
GC/ECD; PEST/PCB; WATER SOW 2/88 Compound List-----499
Surrogate Std-----395

=====

SAMPLE ID# T38001-21
Blank Associated with Case _____
Associated Blank _____

=====

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 mls
portion of Vol. in pesticide _____

=====

ANALYSIS INFORMATION: COMMENTS Send to QA
 QA Approved
Inst. # / Date Sequence Dil. Fact. Need QC/MS Confirmation

11/22 12 126 1 *BDC*

Analyst 1569/819 Date 11/28/89

=====

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 139 X Recovery
AREA IN STD

% Recovery X 0.1 ug/ml = _____ ug/ml

=====

+EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE
JA = reinject acceptable FROM REPEAT REQUEST FORM IN BOX.
QA = repeat confirmed original results
OK = original data acceptable (not for REPEATS) FINAL STATUS CODE += ok
NS = insufficient sample for repeat
DL = DBC low ((20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

GANA GANJ GA notice included.

=====

SAMPLE DISPOSITION Code

Complete.....

Requires Re-extraction.. -55

Requires cleanup..... 901

=====

Audited By _____ Date _____

ASSIGNED TO Mark J. Jett
 EMPLOYEE ID # 1852

COMPUCHEN LABORATORIES
 EXTRACTION WORKSHEET
 EPR LUM LEVEL PESTICIDE WATER

DATE EXTRACTED/POSTED 11-17-79

CASE # 18410.5

-055

QUEUE # 10 (2-88) Reys

SAMPLE NUMBER	EPR ID #	QC TYPE	SAMPLE ORIG #	SAMPLE VOLUME	ALUMINA START VOL.	FINRL VOL.	COMMENTS
1	738001-15			1000ml.	1.0ml.	10ml.	Use 500ml sample vol. for 50 ml. Add 50ml water.
2	738001-16			1000ml.	1.0ml.	10ml.	add 50ml water. Use 50ml water.
3	738001-22			1000ml.	1.0ml.	10ml.	
4	738001-23			1000ml.	1.0ml.	10ml.	
5	738001-24			1000ml.	1.0ml.	10ml.	
6	738001-21			1000ml.	1.0ml.	10ml.	
7	738001-17			1000ml.	1.0ml.	10ml.	
8	738001-18			1000ml.	1.0ml.	10ml.	
9	738001-13			1000ml.	1.0ml.	10ml.	
10	738001-14			1000ml.	1.0ml.	10ml.	
11	738001-24			1000ml.	1.0ml.	10ml.	
12	738001-23			1000ml.	1.0ml.	10ml.	
13							
14	ALUMINA BULK	B		1.0ml.	1.0ml.	1.0ml.	LOT # 30391 amount 1.0ml. # 57
15							
16							
17							
18							
19							
20	PBLK 25	BLANK		1000ml.	1.0ml.	10ml.	
21	PBLK 26	BLANK		1000ml.	1.0ml.	10ml.	
22							

AMOUNT LOT 30412
 SURR 395 1 ML
 SPIKE 4016 100 UL
 CHECKED AND VERIFIED BY LL
 CASE DONE GC LAB
 AUTO. COUNTER 718/
 MINNURL COUNTER 735/511

ALUMINA BATCH # 11-10-89-PL

[Signature]

Rec'd 15 Nov 89
 Dec 13 Dec 89

COMPOUND LIST NO. - 499

COMPUCHEM # 302168 DATE
IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA 804 2/88

DIL FACT _____ DRY WT _____ 1.0_SPLIT _____ FINAL VOL _____ /5 = 1.0
AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----		0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I -----		0.050
12.	0712	ENDOSULFAN II -----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

BDL

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-22

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMP Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 302155
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1569 on Tue Nov 28, 1989 8:53 am using EPACA 1.51

CompuChem Number:302155 Case#:18410 SDG #:5 EPA#:738001-22
Matrix = Water Level = L Compound List = 175

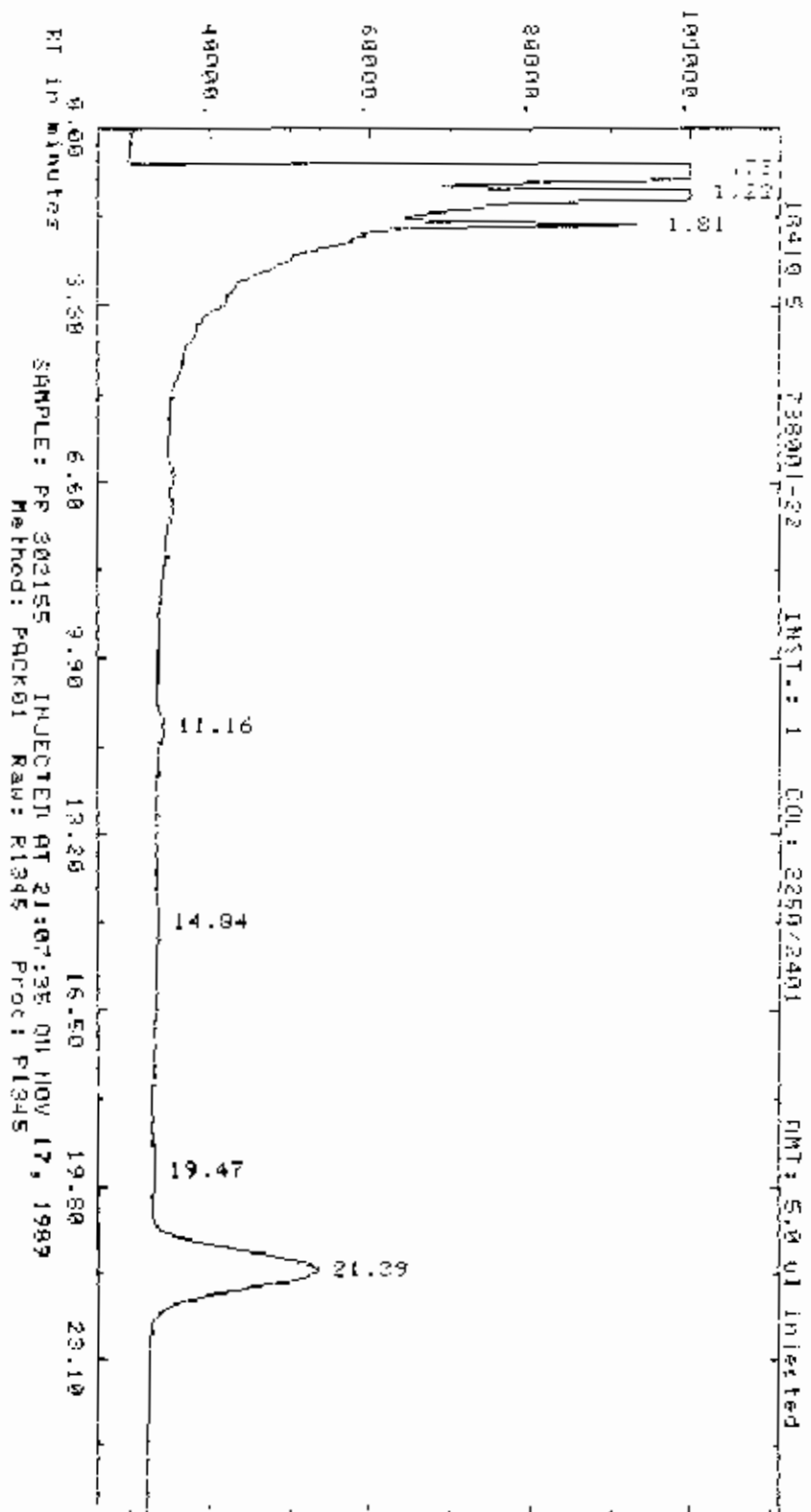
Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} \times \text{Standard Conc} \times \text{Multiplication Factor} \times \text{Split} \times \text{Final Volume} \times \text{Dry Weight Factor}}{\text{Standard Area} \times \text{Volume or Weight of Sample}}$

File : P1345 Column : 2250/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Standard RT window - 21.03 - 21.89	Sample RT -	21.39	Primary/Reported QADS
Standard Area - 620526	Sample Area -	519231	
Standard Conc(ug/ml) - 0.100	Sample Conc(ug/L) -	0.84	83.68 % Recovery
	Sample ng on col -	0.083676	

Analyst Comments:



Report: 13590 00 Channel: 1 13410 S 733901-22
 Sample: PP 302175 Injected at 21:07:35 04 NOV 17, 1967
 ZEPG Method: PAKK01 Seq: 5013 Subsq/Samp: 1/45 S+1. 45
 Sl-Width MV/Min Delay Min-Ap SconA
 .500 300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTU ZRTU ZD11-C Ica
 NO 0 00 0 30 S.0 100.00 NO

Actual run time: 26.017 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.73	0.00	.10000E+01	9	0.000	BS
1.22	0.00	.10000E+01	1507957	70.650	BS
1.31	0.00	.10000E+01	82103	3.809	BB
11.16	0.00	.10000E+01	17249	.833	BB
14.04	0.00	.10000E+01	19850	.921	BB
19.47	0.00	.10000E+01	6453	.299	BB
21.39	0.00	.10000E+01	517231	24.088	BF
Total Area = 2155545.			Total AREA % = 519231.000		
Processed data file: R1345			Raw data file: R1345		

LAB INSTRUCTIONS:
INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

WORKSHEETS CASE # ^{18410.S}~~1841~~COMPUCHEM # 3021550E
RECEIPT DATE 11/15/89 Sample Prep Code--- -55
Instrument Code----144
GC/ECD; PEST/PCB; WATER SOW 2/88 Compound List-----499
Surrogate Std-----395

=====

SAMPLE ID# 738001-22
Blank Associated with Case _____
Associated Blank _____

=====

EXTRACTION INFORMATION: CALC Used? yes | |
Vol. of sample 1000 ml final volume of extract 10 mls
portion of Vol. in pesticide _____

=====

ANALYSIS INFORMATION: COMMENTS | | Send to QA
Inst. # / | | QA Approved
Date Sequence Dil. Fact. | | Need GC/MS
11/17 1 12 1 *DBC* Confirmation

Analyst 1569/819 Date 11/28/89

=====

SURROGATE INFORMATION DIBUTYL CHLORENDATE
AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 84 X Recovery
AREA IN STD

% Recovery X 0.1 ug/ml = _____ ug/ml

=====

+EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE
JA = reinject acceptable FROM REPEAT REQUEST FORM IN BOX.
QA = repeat confirmed original results
OK = original data acceptable (not for REPEATS) FINAL STATUS CODE += OK
NS = insufficient sample for repeat
DL = DBC low (<20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

| | QANA | | QAN3 | QA notice included.

=====

SAMPLE DISPOSITION Code
| | Complete.....
| | Requires Re-extraction.. -55
| | Requires cleanup..... 901

=====

Audited By _____ Date _____

ASSIGNED TO *Mark Biss*
 EMPLOYEE ID # *1853*

COMPUCHEN LABORATORIES
 EXTRACTION WORKSHEET
 EPA LOW LEVEL PESTICIDE WATER

DATE EXTRACTED/POSTED *11-17-79*

CRSE # *1840.5*

-055

QUEUE # 10 *(2-88) Rens*

SAMPLE NUMBER	EPR ID #	QC SAMPLE TYPE	ORIG #	SAMPLE VOLUME	ALUMINA START VOL.	FINL VOL.	COMMENTS
1	738001-15			1000ml.	1.0ml.	10ml.	
2	731001-16			1000ml.	1.0ml.	10ml.	
3	738001-20			1000ml.	1.0ml.	10ml.	
4	738001-21			1000ml.	1.0ml.	10ml.	
5	738001-26			1000ml.	1.0ml.	10ml.	
6	738001-21			1000ml.	1.0ml.	10ml.	
7	738001-17			1000ml.	1.0ml.	10ml.	
8	738001-18			1000ml.	1.0ml.	10ml.	
9	738001-13			1000ml.	1.0ml.	10ml.	
10	738001-14			1000ml.	1.0ml.	10ml.	
11	738001-24			1000ml.	1.0ml.	10ml.	
12	738001-23			1000ml.	1.0ml.	10ml.	
13							
14	ALUMINA BKS		B	2.0ml.	1.0ml.	10ml.	LOT # 30391 AMOUNT 1.0ML. # 57
15							
16							
17							
18							
19							
20	BLK 25		BLK	1000ml.	1.0ml.	10ml.	
21	303880		BLK	1000ml.	1.0ml.	10ml.	
22	303881		BLK	1000ml.	1.0ml.	10ml.	

AMOUNT LOT
 SURR 995 1 ML *30412*
 SPIKE 4016 100 UL *XX*
 CHECKED AND VERIFIED *lll*
 CRSE DONE (GC LNB)
 RUTG. COUNTER *918*
 MANUAL COUNTER *735/511*

ALUMINA BATCH # *11-10-89-91*

RECEIVED
MSL

Rec'd 12 Nov 89
Done 13 Dec 89

COMPOUND LIST NO. - 499

COMPUCHEN # 302155 DATE
 IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA SOW 2/88

DIL FACT _____ DRY WT _____ AMT SAMPLE _____ 1.0 SPLIT _____ FINAL VOL _____ /5 = 1.0
 CORRECTION FACTOR

COUNTER	COMPUCHEN COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----	 	0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I-----		0.050
12.	0712	ENDOSULFAN II-----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ADC

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-23

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REYS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 302182
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/22/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	D
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-23

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REYS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 302182
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89
 Extraction: (Sep/Cont/Sonc) SEPE Date Analyzed: 11/22/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1569 on Wed Dec 6, 1989 4:00 pm using EPACA 1.51

CompuChem Number: 302182
Matrix = Water

Case#: 18410
Level = L

SDG #: 5

EPA#: 738001-23
Compound List = 175

Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} \times \text{Standard Conc} \times \text{Multiplication Factor} \times \text{Split} \times \text{Final Volume} \times \text{Dry Weight Factor}}{\text{Standard Area} \times \text{Volume or Weight of Sample}}$

File : P12622 Column : 2250/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Heptachlor epoxide	Standard RT window - 5.14 - 5.39	Sample RT - 5.26	
	Standard Area - 9676	Sample Area - 4698	
	Standard Conc(ug/ml) - 0.010	Sample Conc(ug/l) - 0.05	Sample ng on col - 0.004855
Endosulfan I	Standard RT window - 6.36 - 6.62	Sample RT - 6.43	
	Standard Area - 18711	Sample Area - 25589	
	Standard Conc(ug/ml) - 0.010	Sample Conc(ug/l) - 0.14	Sample ng on col - 0.013676
4,4'-DDE	Standard RT window - 6.85 - 7.13	Sample RT - 7.07	
	Standard Area - 16106	Sample Area - 15786	
	Standard Conc(ug/ml) - 0.020	Sample Conc(ug/l) - 0.20	Sample ng on col - 0.019602
DDE	Standard RT window - 19.57 - 20.37	Sample RT - 20.04	
	Standard Area - 35004	Sample Area - 55253	
	Standard Conc(ug/ml) - 0.100	Sample Conc(ug/l) - 1.58	157.85 % Recovery Sample ng on col - 0.157847

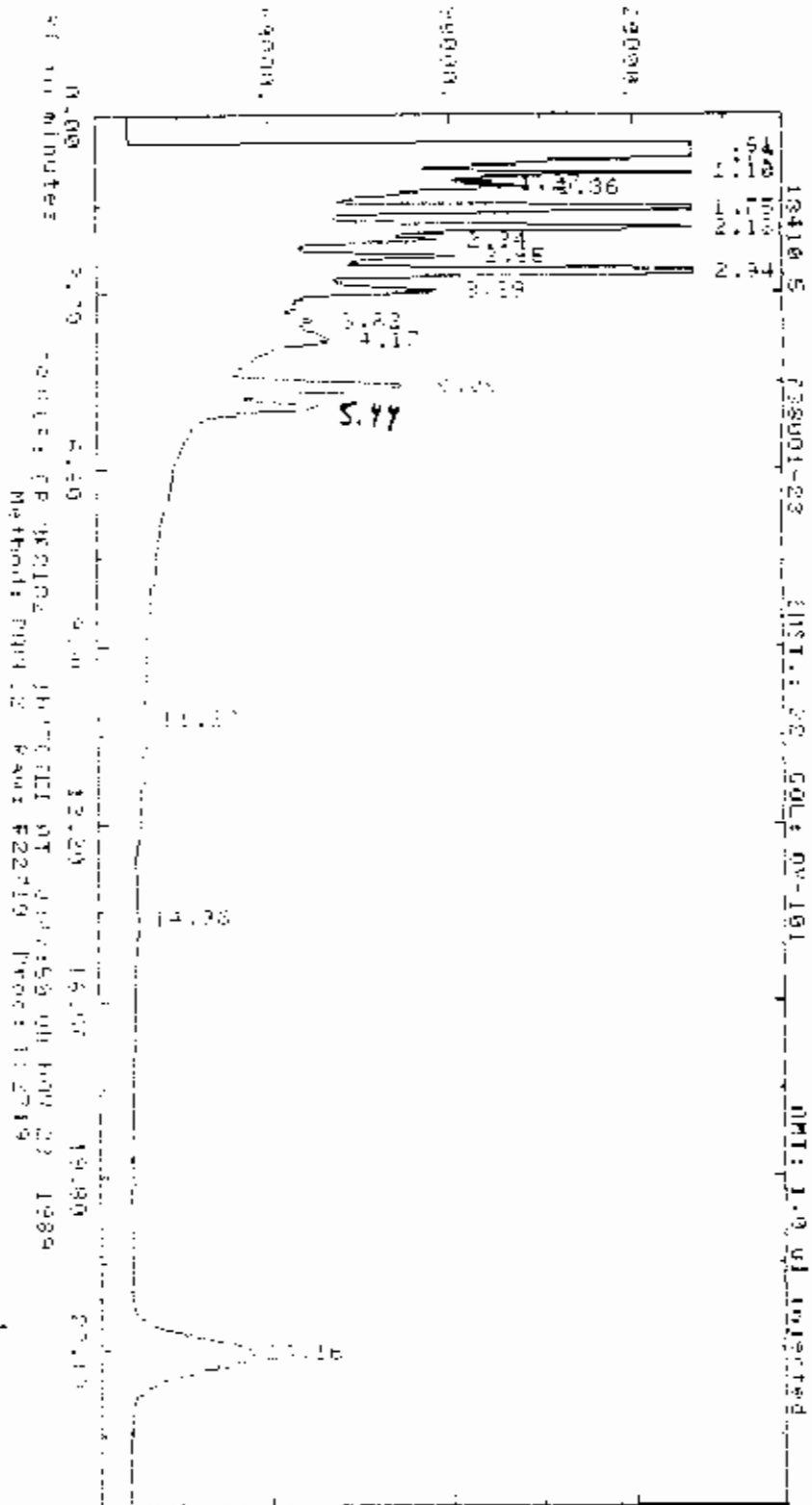
File : P22719 Column : OV-101 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Heptachlor epoxide	Standard RT window - 5.26 - 5.58	Sample RT - 5.44	
	Standard Area - 94442	Sample Area - 107191	
	Standard Conc(ug/ml) - 0.010	Sample Conc(ug/l) - 0.11	Sample ng on col - 0.011350
DDE	Standard RT window - 22.27 - 23.65	Sample RT - 23.16	Primary/Reported OADS
	Standard Area - 630668	Sample Area - 491244	
	Standard Conc(ug/ml) - 0.100	Sample Conc(ug/l) - 0.78	77.89 % Recovery Sample ng on col - 0.077893

Analyst Comments:

* The actual concentration value for Heptachlor epoxide is 0.048 ug/l.
This value is below reportable detection limits.

CEE
12/06/89



Report: 1480 00 Channel 22 (S410 5) 7/20/82
 Sample CP 302182 Injection 1 0.40 0.00 0.17, 1.77
 ZFR0 Method: PACK22 Seq: SFC227 Sample Temp 120.00 311.10
 SL-width MU/Min Delay 11.11 8.00
 5.00 1.00
 Gps-Pk Det TO Lvl 14.00 1.00 100.00 1.00
 0.00 0.00 0

Actual run time: 28.493 minutes

Failed out on baseline

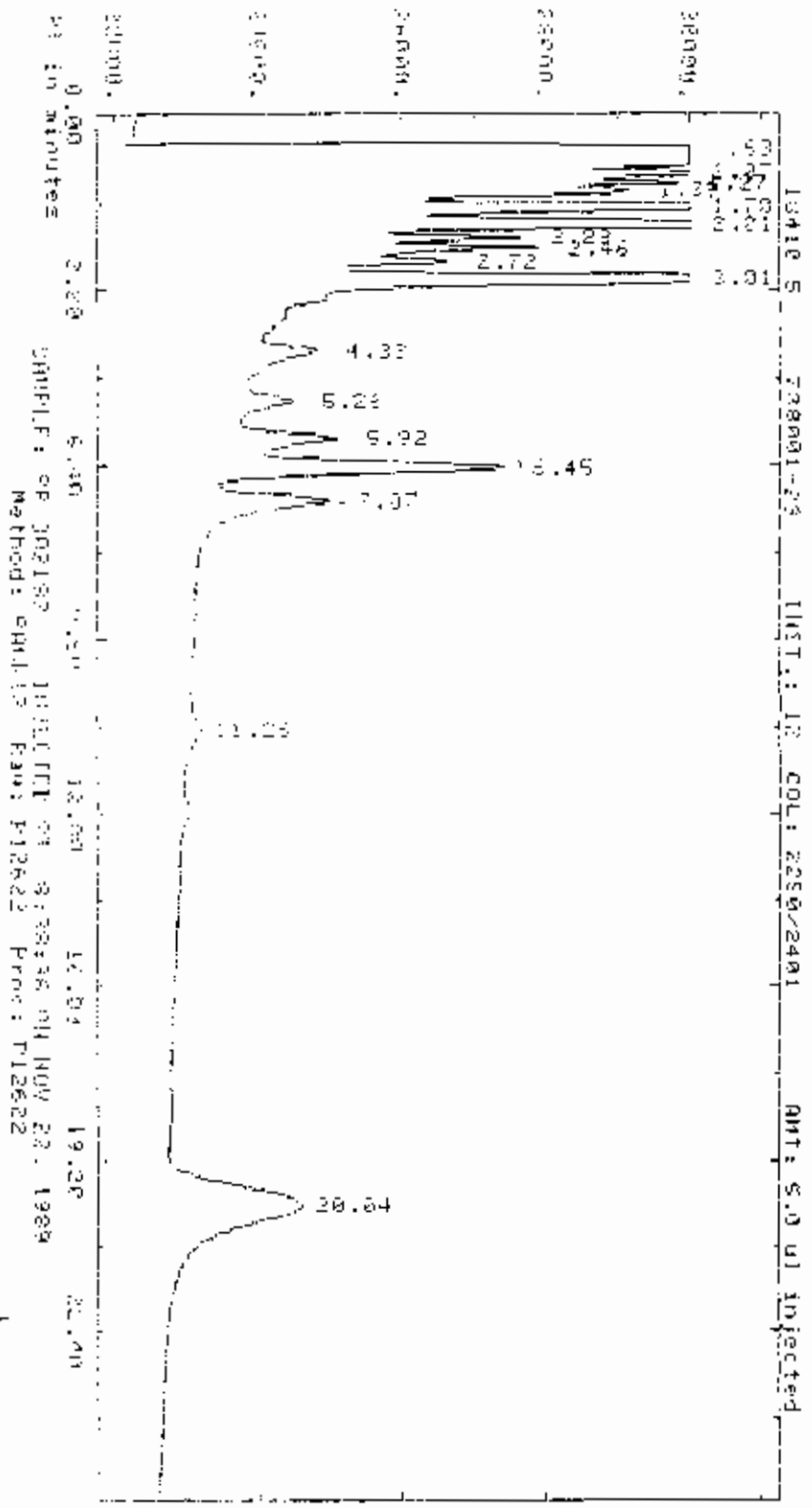
RT	TM	Factor	Area	AREA %	Name
0.51	0.00	1.0000E+01	5181073.	23	01.454
0.79	0.00	1.0000E+01	25942.	00	.256
1.10	0.00	1.0000E+01	162124.	08	1.418
1.27	0.00	1.0000E+01	7261.	00	.107
1.36	0.00	1.0000E+01	27395.	00	.380
1.75	0.00	1.0000E+01	331437.	03	4.574
2.13	0.00	1.0000E+01	125078.	06	2.565
2.34	0.00	1.0000E+01	24663.	00	.340
2.65	0.00	1.0000E+01	68882.	03	.923
2.94	0.00	1.0000E+01	423987.	11	5.847
3.29	0.00	1.0000E+01	73764.	03	1.036
3.82	0.00	1.0000E+01	13097.	00	.182
4.17	0.00	1.0000E+01	49590.	02	.683
5.06	0.00	1.0000E+01	133553.	06	2.512
11.27	0.00	1.0000E+01	24193.	00	.330
14.96	0.00	1.0000E+01	31881.	03	.446
23.16	0.00	1.0000E+01	452344.	05	6.175

Total Area = 2450918.

Total AREA % = 471244.000

Processed data file: P22719

Raw data file: R22719



Report: 12409 00 Channel: 42 (Scan 5) (778.000)

Sample: PR 302132 (Injection Volume: 1.00 µl) (100.000 µg/l) (100.000)

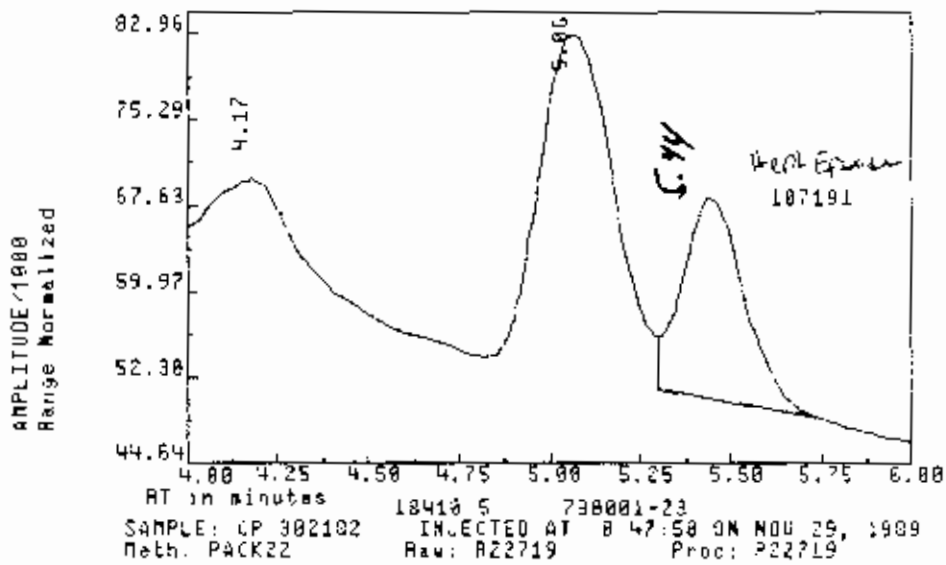
MSD Method: PAK12 Sec: 80631 (Injection Vol: 1.00) (100.00)

Standard: N/A (Conc: 0.00) (Area: 0.00)

Sup-Int: 0.01 (T0-Int: 0) (Peak Int: 0) (RT: 0.00) (Area: 0.00)

Actual run time: 25.508 minutes

RT	INT	Factor	Area	AREA %	Name
0.63	0.00	1.0000E+01	587597.00	66.705	
1.07	0.00	1.0000E+01	16185.00	1.825	
1.27	0.00	1.0000E+01	2635.00	0.315	
1.37	0.00	1.0000E+01	5195.00	0.610	
1.70	0.00	1.0000E+01	41550.00	4.682	
2.01	0.00	1.0000E+01	28195.00	3.200	
2.29	0.00	1.0000E+01	4758.00	0.559	
2.46	0.00	1.0000E+01	6765.00	0.772	
2.72	0.00	1.0000E+01	3125.00	0.357	
3.01	0.00	1.0000E+01	6724.00	0.771	
3.33	0.00	1.0000E+01	7119.00	0.813	
5.26	0.00	1.0000E+01	4692.00	0.538	
5.92	0.00	1.0000E+01	3079.00	0.354	
6.45	0.00	1.0000E+01	25589.00	2.936	
7.07	0.00	1.0000E+01	15780.00	1.804	
11.26	0.00	1.0000E+01	2965.00	0.340	
20.04	0.00	1.0000E+01	55253.00	6.300	
Total Area =		351348	Total AREA % =		55253.000
Processed data file: P12622			Raw data file: R12622		



LAB INSTRUCTIONS:
INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

WORKSHEETS CASE # ^{18410.5} ~~704~~ COMPUCHEM # 3021820E
RECEIPT DATE 11/15/89 Sample Prep Code--- -55
Instrument Code-----144
GC/ECD; PEST/PCB; WATER 504 2/89 Compound List-----499
Surrogate Std-----395

=====

SAMPLE ID# 738001-23
Blank Associated with Case _____
Associated Blank _____

=====

EXTRACTION INFORMATION: CALC Used? yes |___|

Vol. of sample 1000 ml final volume of extract 10 ml
portion of Vol. in pesticide _____

=====

ANALYSIS INFORMATION: COMMENTS |___| Send to QA

Inst. # / |___| QA Approved
Date Sequence Dil. Fact. BDL
11/22 12 126 1 ~~Heptachlor Epoxide~~ |___| Need GC/MS
11/29 22 227 1 BDL MT 12/1/89 Confirmation

Analyst 8/19/89 Date 11-29-89

=====

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 78 % Recovery
AREA IN STD

X Recovery X 0.1 ug/ml = _____ ug/ml

=====

+EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE
JA = reinject acceptable FROM REPEAT REQUEST FORM IN BOX.
GA = repeat confirmed original results
OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+= OK
NS = insufficient sample for repeat
DL = DBC low ((20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

|___| QANA |___| QANJ QA notice included.

=====

SAMPLE DISPOSITION Code

|___| Complete.....

|___| Requires Re-extraction.. -55

|___| Requires cleanup..... 901

=====

Audited By _____ Date _____

ASSIGNED TO Mark Hill
 EMPLOYEE ID # 1457
 CASE # 18410.5
 COMPUTHER LABORATORIES
 EXTRACTION WORKSHEET
 EPR LUM LEVEL PESTICIDE METER
 -055
 DATE EXTRACTED/POSTED 11-17-79
 QUEUE # 10 (2-88) Reus

SAMPLE NUMBER	EPR ID #	QC SAMPLE TYPE	SAMPLE ORIG #	SAMPLE VOLUME	ALUMINA START VOL.	FINAL VOL.	COMMENTS
1	302150		738001-15	1000ul.	1.0ul.	10ul.	
2	302154		738001-14	1000ul.	1.0ul.	10ul.	
3	302155		738001-22	1000ul.	1.0ul.	10ul.	
4	302157		738001-25	1000ul.	1.0ul.	10ul.	
5	302166		738001-24	1000ul.	1.0ul.	10ul.	
6	302168		738001-21	1000ul.	1.0ul.	10ul.	
7	302172		738001-17	1000ul.	1.0ul.	10ul.	
8	302173		738001-18	1000ul.	1.0ul.	10ul.	
9	302174		738001-13	1000ul.	1.0ul.	10ul.	
10	302175		738001-14	1000ul.	1.0ul.	10ul.	
11	302176		738001-24	1000ul.	1.0ul.	10ul.	
12	302182		738001-23	1000ul.	1.0ul.	10ul.	
13							
14	ALUMINA BAK			1.0ul.	1.0ul.	1.0ul.	LOT # 30391 AMOUNT 1.0ML # 57
15							
16							
17							
18							
19							
20							
21	303880	PBLK 75	BLANK	1000ul.	1.0ul.	10ul.	
22	303881	PBLK 26	BLANK	1000ul.	1.0ul.	10ul.	

SURR 995 1 ML 30412 RHOUMT LOT
 SPIKE 4016 100 UL XX
 CHECKED AND VERIFIED 11-17-79 (GC LAB)
 CASE DONE 11-10-89-RL (GC LAB)
 AUTO. COUNTER 716 /
 MANUAL COUNTER 735 / 511


RECEIVED
 11-17-79

Rec'd 15 Nov 81
 Due 13 Dec 81

COMPOUND LIST NO. - 499

COMPUCHER # 302182 DATE
IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA 504 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ /5 = 1.0
AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHER COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----		0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I-----		BDL 0.050
12.	0712	ENDOSULFAN II-----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		BDL 0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-24

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 302176
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/22/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L Q
319-84-5	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee # 819 on Wed Nov 29, 1989 12:38 pm using EPACA 1.51

CompuChem Number: 302176 Case#: 18410 SDG #: 5 EPA#: 738001-24
 Matrix = Water Level = L Compound List = 175

Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 mL Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} * \text{Standard Conc} * \text{Multiplication Factor} * \text{Split} * \text{Final Volume} * \text{Dry Weight Factor}}{\text{Standard Area} * \text{Volume or Weight of Sample}}$

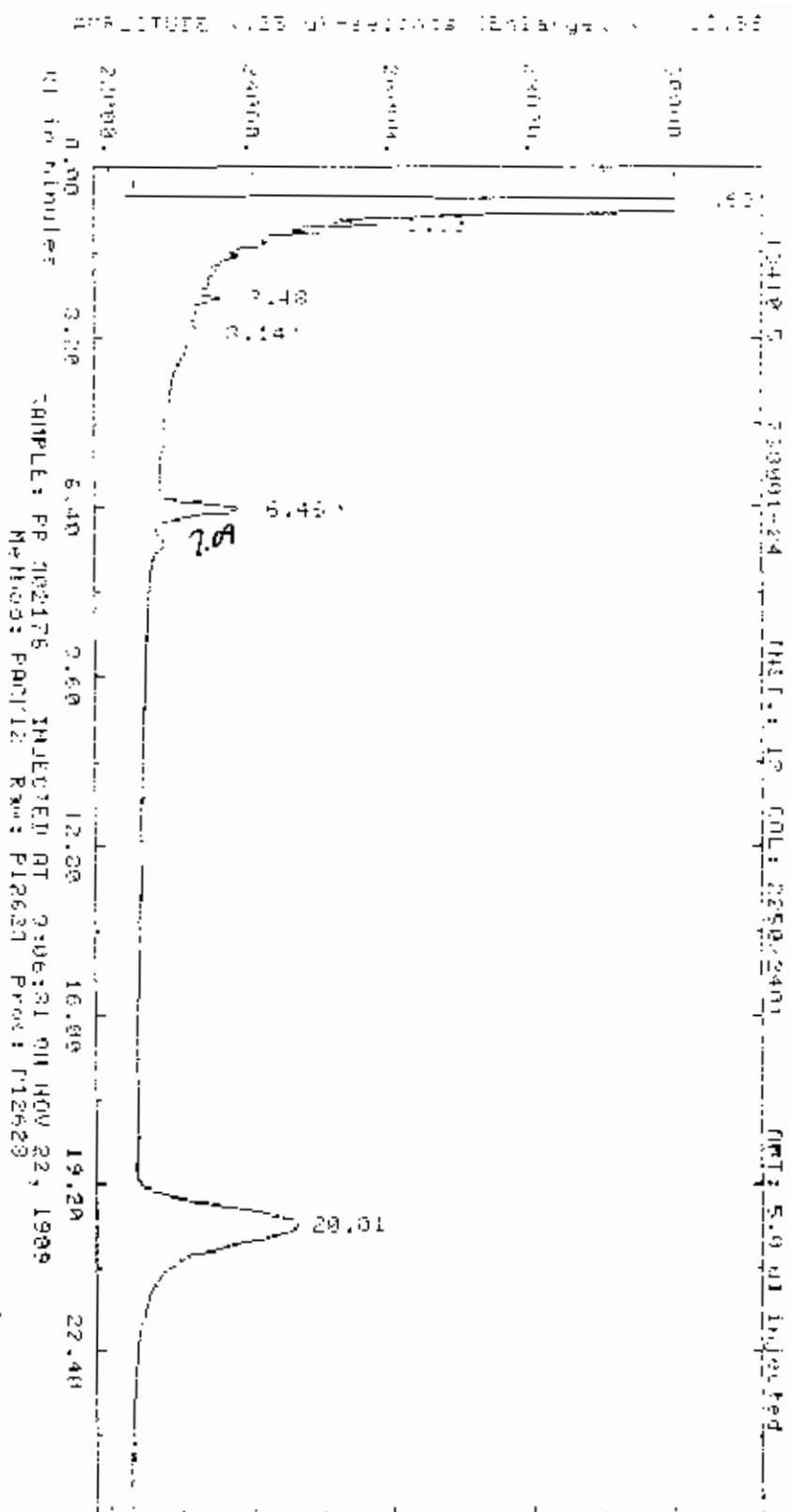
File : P12623 Column : 2290/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Compound	Standard RT window	Standard Area	Standard Conc(ug/ml)	Sample RT	Sample Area	Sample Conc(ug/l)	Sample ng on col	Recovery
Heptachlor	3.08 - 3.21	10324	0.010	3.16	2081	0.02 (BPL)	0.002016	
Endosulfan I	6.36 - 6.62	18711	0.010	6.66	8979	0.01 (did not confirm on sequence 227)	0.004709	
DDC	19.57 - 20.37	33004	0.100	20.01	69117	1.97	0.197453	197.45 % Recovery CFL 12/06/89

File : P22717 Column : OV-101 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Compound	Standard RT window	Standard Area	Standard Conc(ug/ml)	Sample RT	Sample Area	Sample Conc(ug/l)	Sample ng on col	Recovery
DDC	22.50 - 23.42	630668	0.100	23.16	572405	0.91	0.090762	90.76 % Recovery Primary/Reported OADS

Analyst Comments:



Report: 12410 00 Date: 01/17/83 Time: 10:00 AM

Sample: PP ZIR176 Weight: 0.1000g Volume: 10.00 mL Dil: 100

ZERO Matrix: BAK12 Seq: 1007 Injection: 123 Peak: 1

RT	Area	Height	Width	Area%	Height%
0.43	121.0	1.0	0.10	0.0001	0.0001
1.10	173.0	1.0	0.10	0.0002	0.0002
2.48	100.0	1.0	0.10	0.0001	0.0001
3.14	100.0	1.0	0.10	0.0001	0.0001
5.46	100.0	1.0	0.10	0.0001	0.0001
90.04	100.0	1.0	0.10	0.0001	0.0001

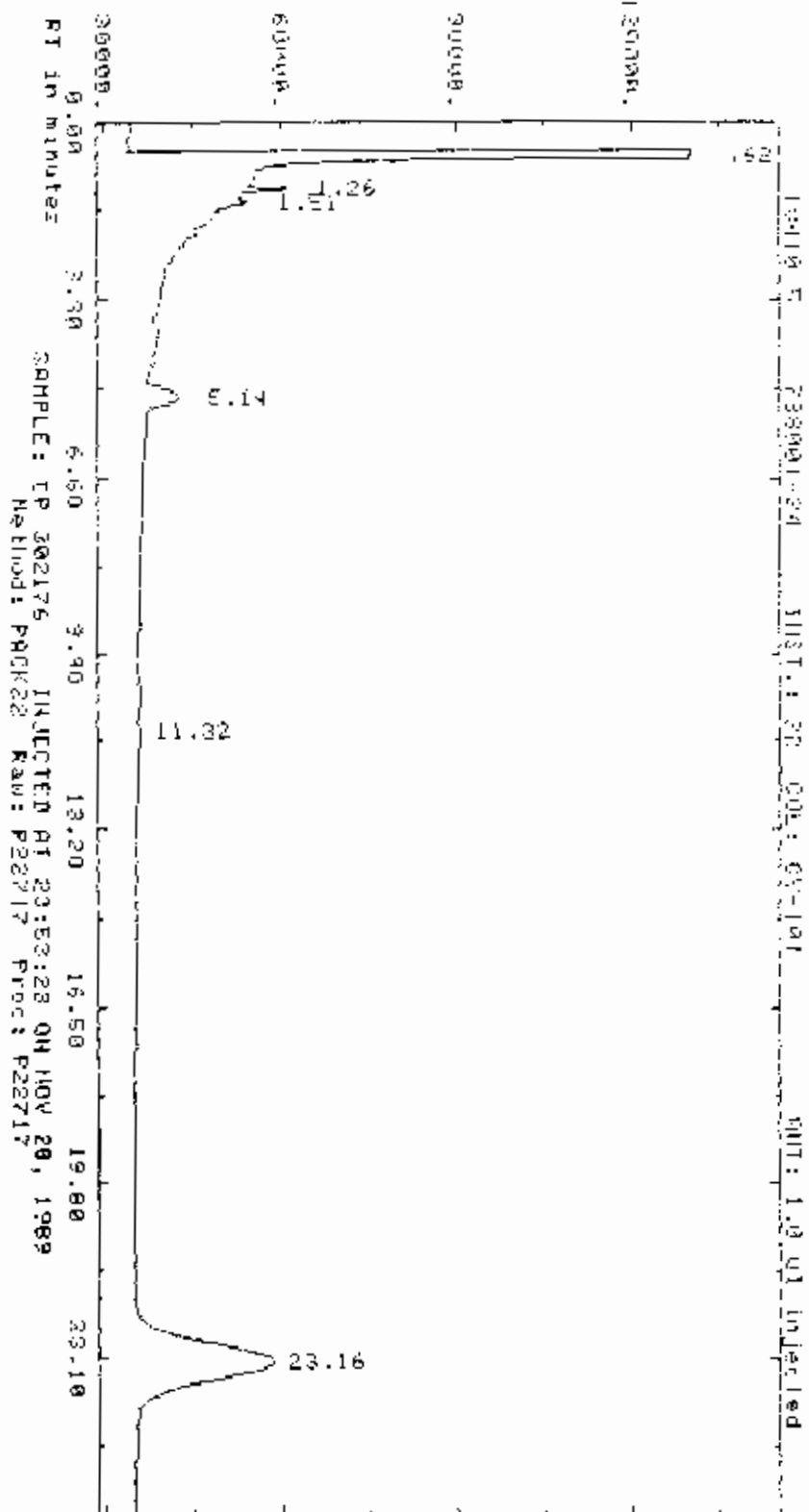
Actual Weight: 0.1000g Dil: 100

RT	ITH	Factor	Area	Area%	Height%
0.43	0.00	1.0000E+01	121.00	0.0001	0.0001
1.10	0.00	1.0000E+01	173.00	0.0002	0.0002
2.48	0.00	1.0000E+01	100.00	0.0001	0.0001
3.14	0.00	1.0000E+01	100.00	0.0001	0.0001
5.46	0.00	1.0000E+01	100.00	0.0001	0.0001
90.04	0.00	1.0000E+01	100.00	0.0001	0.0001

Total Area = 500.00 Total Area % = 0.0004

Processed data file: 210025 Raw data file: 210025

AMPLITUDE 0.25 27-seconds .Enlarged X 19.68



Report: 1075 00 Channel: 02 10410 s 755001-2A
 Sample: CP 202176 Injected at 25:55:23 ON 01/12, 1969
 ZERO Method: PACH32 Seq: 5ER327 Group/Param: 1/17 P1: 17
 Slope: M/Min Delay Run Ar Vapor
 500 0.500 0.00 5019 A70
 Sup:Unit Dur ID-Lvl R-P-RTW LETW SCLL f Lso
 00 0 00 0 50 5 0 100.00 00

Actual run time: 26 025 minutes
 Reading(s) missed
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
0.62	0.00	.10000E+01	6007990.	88	29.241
1.26	0.00	.10000E+01	12952.	BB	195
1.51	0.00	.10000E+01	5598.	BB	.054
5.14	0.00	.10000E+01	53732.	BB	867
11.32	0.00	.10000E+01	5013.	BB	.075
23.16	0.00	.10000E+01	572405.	BF	8.598
Total Area =			6657720.	Total AREA % = 572405.000	
Processed data file: P22717			Raw data file: R22717		

LAB INSTRUCTIONS:
INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

WORKSHEETS CASE # ^{18410.5}~~184~~COMPUCHEM # 3021764E
RECEIPT DATE 11/15/89 Sample Prep Code--- -55
Instrument Code----144
GC/ECD; PEST/PCB; WATER SOW 2/88 Compound List-----499
Surrogate Std-----395

=====

SAMPLE ID# 738001-24
Blank Associated with Case _____
Associated Blank _____

=====

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 ml
portion of Vol. in pesticide _____

=====

ANALYSIS INFORMATION: COMMENTS Send to QA
 QA Approved
 Need GC/MS Confirmation

Inst. # /	Date	Sequence	Dil. Fact.	
	<u>11/22</u>	<u>12</u>	<u>126</u>	<u>1</u>
	<u>11/28</u>	<u>22</u>	<u>227</u>	<u>1</u>

Analyst 819/1569 Date 11-29-89

=====

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 91 % Recovery
AREA IN STD

% Recovery X 0.1 ug/ml = _____ ug/ml

=====

+EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE
JA = reinject acceptable FROM REPEAT REQUEST FORM IN BOX.
QA = repeat confirmed original results
OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+= OK
NS = insufficient sample for repeat
DL = DBC low ((20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

QANA QAN3 QA notice included.

=====

SAMPLE DISPOSITION Code

Complete.....

Requires Re-extraction.. -55

Requires cleanup..... 901

=====

Audited By _____ Date _____

ASSIGNED TO Mark J. Rice
 EMPLOYEE ID # 1155

COMPUCHEN LABORATORIES
 EXTRACTION WORKSHEET
 EPR LOW LEVEL PESTICIDE WATER

DATE EXTRACTED/POSTED 11-17-79

CASE # 18410.5


-055

QUEUE # 10

(2-98) Reus

SAMPLE NUMBER	EPR ID #	DC TYPE	SAMPLE ORIG #	SAMPLE VOL. VOLUME	ALUMINA STRT VOL.	FINL VOL.	COMMENTS
1	302150	738001-15		1000ml.	1.0ml.	10ml.	Use small sample vol. for GC only add 1.0ml. water. Add 500-µl. conc. and 1.0ml. solvent.
2	302154	738001-16		1000ml.	1.0ml.	10ml.	
3	302155	738001-17		1000ml.	1.0ml.	10ml.	
4	302157	738001-18		1000ml.	1.0ml.	10ml.	
5	302166	738001-21		1000ml.	1.0ml.	10ml.	
6	302168	738001-21		1000ml.	1.0ml.	10ml.	
7	302172	738001-17		1000ml.	1.0ml.	10ml.	
8	302173	738001-18		1000ml.	1.0ml.	10ml.	
9	302174	738001-13		1000ml.	1.0ml.	10ml.	
10	302175	738001-14		1000ml.	1.0ml.	10ml.	
11	302176	738001-24		1000ml.	1.0ml.	10ml.	
12	302182	738001-23		1000ml.	1.0ml.	10ml.	
13							
14	ALUMINA BAK		B	2.0ml.	1.0ml.	1.0ml.	LOT # 30391 amount 1.0ml # 57
15							
16							
17							
18							
19							
20	303880	BLK 25	BLANK	1000ml.	1.0ml.	10ml.	
21	303881	BLK 26	BLANK	1000ml.	1.0ml.	10ml.	
22							

* AMOUNT LOT
 SURR 395 1 ML 30412
 SPIKE 4016 100 UL XX
 CHECKED AND VERIFIED (GC LAB)
 CRSE DOME (GC LAB)
 AUTO. COUNTER 718 /
 MANUAL COUNTER 735 / 511

ALUMINA BATCH # 11-10-89-9C


rec'd GC 11-17-89
 Rec'd 13 Nov 89
 Due 13 Dec 89

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-25

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 302157
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/15/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

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

CAS NO.	COMPOUND	Q
319-84-6	alpha-BHC	0.050 U
319-85-7	beta-BHC	0.050 U
319-86-8	delta-BHC	0.050 U
58-89-9	gamma-BHC (Lindane)	0.050 U
76-44-8	Heptachlor	0.050 U
309-00-2	Aldrin	0.050 U
1024-57-3	Heptachlor epoxide	0.050 U
959-98-8	Endosulfan I	0.050 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
1031-07-8	Endosulfan sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin ketone	0.10 U
5103-71-9	alpha-Chlordane	0.50 U
5103-74-2	gamma-Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 U

Analysis Worksheet

By employee #1569 on Tue Nov 28, 1989 8:54 am using EPACA 1.51

CompuChem Number:302157 Case#:18410 SDG #:5 EPA#:738001-25
 Matrix = Water Level = L Compound List = 175

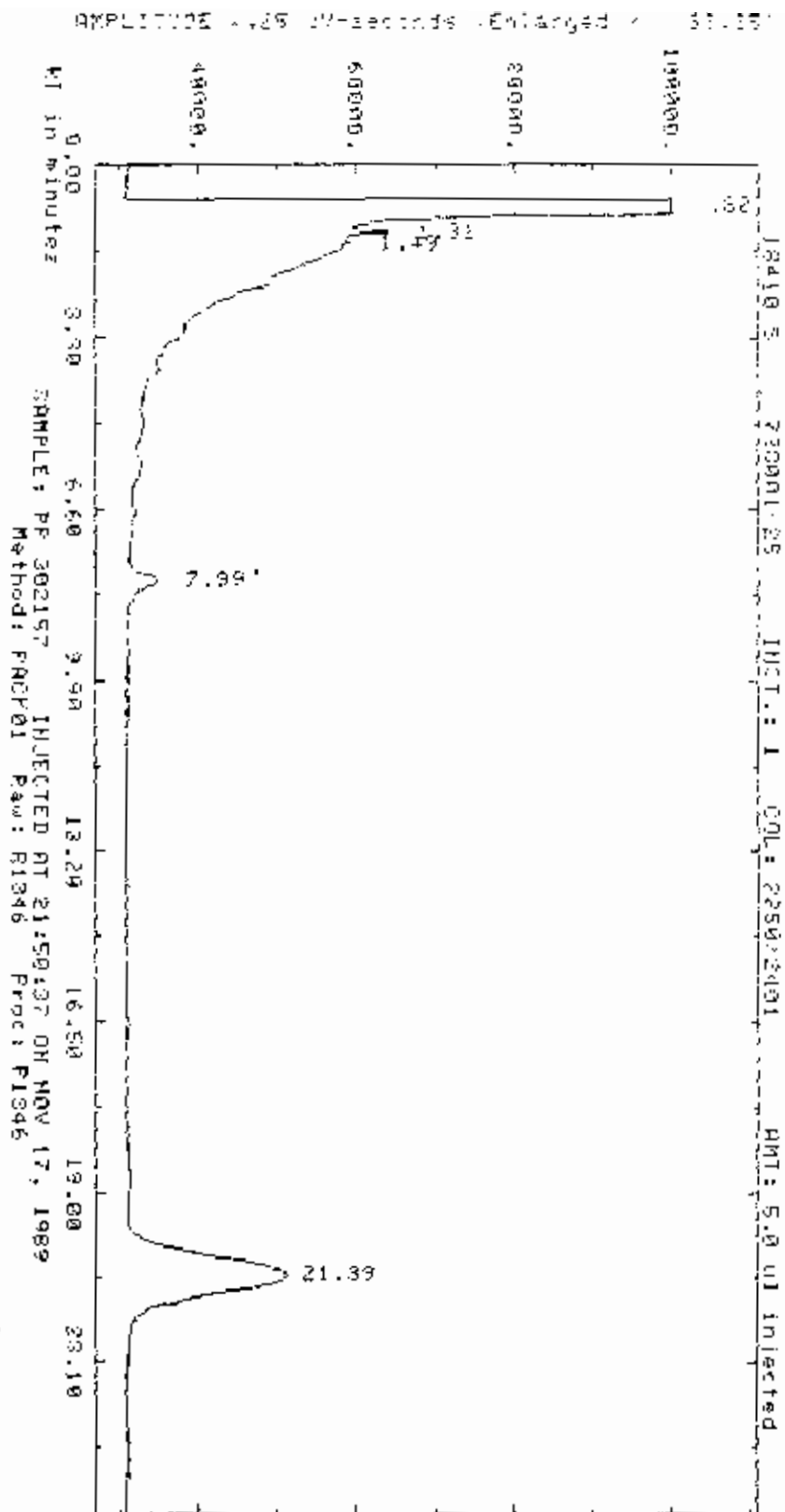
Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} * \text{Standard Conc} * \text{Multiplication Factor} * \text{Split} * \text{Final Volume} * \text{Dry Weight Factor}}{\text{Standard Area} * \text{Volume or Weight of Sample}}$

File : P1346 Column : 2250/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

4,4'-DDE	Standard RT window - 7.73 - 8.05	Sample RT - 7.99	
	Standard Area - 138901	Sample Area - 36544	
	Standard Conc(ug/ml) - 0.020	Sample Conc(ug/L) - 0.05 (BDL)	
		Sample ng on col - 0.004600	
DDE	Standard RT window - 21.03 - 21.89	Sample RT - 21.39	Primary/Reported QADS
	Standard Area - 620526	Sample Area - 509121	
	Standard Conc(ug/ml) - 0.100	Sample Conc(ug/L) - 0.82	82.05 % Recovery
		Sample ng on col - 0.082047	

Analyst Comments:



Report 13894 00 Channel 1 18410 5 735001-25
 Sample: PP 302137 Ejected at 21 59:37 On NOV 17, 1967
 ZERO Method: PACK01 Seq: 50013 Sub-4/Samp: 1/46 Ori: 46
 SI-Min-Hs MV/Min Delay Min-Ac Bunch
 500 .000 0.00 5000 Auto
 Cup-Link Det IO-Lvl Ref-RTD XRTW 1011-F Iso
 80 0.00 0 0.00 3.0 100.00 100

Actual run time: 26.017 minutes
 Ended net on baseline

RT	MIN	Factor	Area	AREA %	Name
50	0.00	.10000E+01	10152198.	94.768	BB
1.31	0.00	.10000E+01	9278.	.087	BB
1.47	0.00	.10000E+01	12307.	.115	BB
7.72	0.00	.10000E+01	38544.	.341	BB
21.39	0.00	.10000E+01	509121.	4.758	BB
Total Area =			10719448.	Total AREA % = 509121.000	
Processed data file			P1346	Raw data file: R1346	

LAB INSTRUCTIONS:

INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

WORKSHEETS
RECEIPT DATE 11/15/89

18410.5
CASE # ~~1041~~COMPUCHEM # 3021570E

Sample Prep Code--- -55
Instrument Code----144
Compound List-----499
Surrogate Std-----395

GC/ECD; PEST/PCB; WATER SOW 2/88

SAMPLE ID# 738001-25

Blank Associated with Case _____

Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 ml

portion of Vol. in pesticide _____

ANALYSIS INFORMATION: COMMENTS Send to QA

Inst. # / QA Approved

Date Sequence Dil. Fact.

11/17 1 13 1

DBC

Need GC/MS Confirmation

Analyst 1569/519 Date 11/28/89

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 82% Recovery
AREA IN STD

% Recovery X 0.1 ug/ml = _____ ug/ml

- +EA = re-extract acceptable
 - JA = reinject acceptable
 - QA = repeat confirmed original results
 - OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+*
 - MS = insufficient sample for repeat
 - DL = DBC low (<20% Recovery)
 - DA = Dilution Acceptable
 - BF = Blank Requires Florisil
 - CT = Contamination Suspected
- IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

ok

QANA QAN3 QA notice included.

SAMPLE DISPOSITION Code

Complete.....

Requires Re-extraction.. -55

Requires cleanup..... 901

Audited By _____ Date _____

ASSIGNED TO Mark J. Rice
 EMPLOYEE ID # 1752

COMPUCHEN LABORATORIES
 EXTRACTION WORKSHEET
 EPM LOW LEVEL PESTICIDE WATER

DATE EXTRACTED/POSTED 11-17-89

CRSE # 18410.5

-055

QUEUE # 10

(2-88) Revis

SAMPLE NUMBER	EPA ID #	DC TYPE	SAMPLE VOLUME	ALUMINUM START VOL.	FINAL VOL.	COMMENTS
1	302150	738001-15	1000ml.	1.0ml.	10ml.	See Spikes sample vol for SS only. Add 0.5ml water. Add 50ul spike conc. See Spikes sheet volume.
2	302154	738001-16	1000ml.	1.0ml.	10ml.	
3	302155	738001-22	1000ml.	1.0ml.	10ml.	
4	302157	738001-23	1000ml.	1.0ml.	10ml.	
5	302166	738001-26	1000ml.	1.0ml.	10ml.	
6	302168	738001-21	1000ml.	1.0ml.	10ml.	
7	302172	738001-17	1000ml.	1.0ml.	10ml.	
8	302173	738001-18	1000ml.	1.0ml.	10ml.	
9	302174	738001-19	1000ml.	1.0ml.	10ml.	
10	302175	738001-14	1000ml.	1.0ml.	10ml.	
11	302176	738001-24	1000ml.	1.0ml.	10ml.	
12	302182	738001-23	1000ml.	1.0ml.	10ml.	
13						
14	ALUMINA BULK	B	1.0ml.	1.0ml.	10ml.	LOT # 30391 APPROX 1.0ML # 57
15						
16						
17						
18						
19						
20						
21	302880	PBLK 25 PBLK 26	1000ml. 1000ml.	1.0ml. 1.0ml.	10ml. 10ml.	
22	302881	PBLK 26	1000ml.	1.0ml.	10ml.	

AMOUNT LOT
 SURR 995 1 ML 30412
 SPIKE 4016 100 UL XX
 CHECKED AND VERIFIED BY LL (GC LAB)
 CRSE DONE (GC LAB)
 AUTO. COUNTER 718/
 MANUAL COUNTER 725/511

RECEIVED
 11/17/89
 1052

Rec'd 15 Nov 89
 Due 13 Dec 89

COMPOUND LIST NO. - 499

COMPUCHEM # 302157 DATE
IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA SOW 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ /5 = $\frac{1.0}{1}$
AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----	BDC	0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I -----		0.050
12.	0712	ENDOSULFAN II -----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0719	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-26

Lab Name: COMPUCHEM LABORATORIES Contract: (7-88)-REVS

Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5

Matrix: (soil/water) WATER Lab Sample ID: 302166

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

Level: (low/med) LOW Date Received: 11/15/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1569 on Tue Nov 28, 1989 8:55 am using EPACA 1.51

CompuChem Number:302166 Case#:18410 SDG #:5 EPA#:738001-26
 Matrix = Water Level = L Compound List = 175

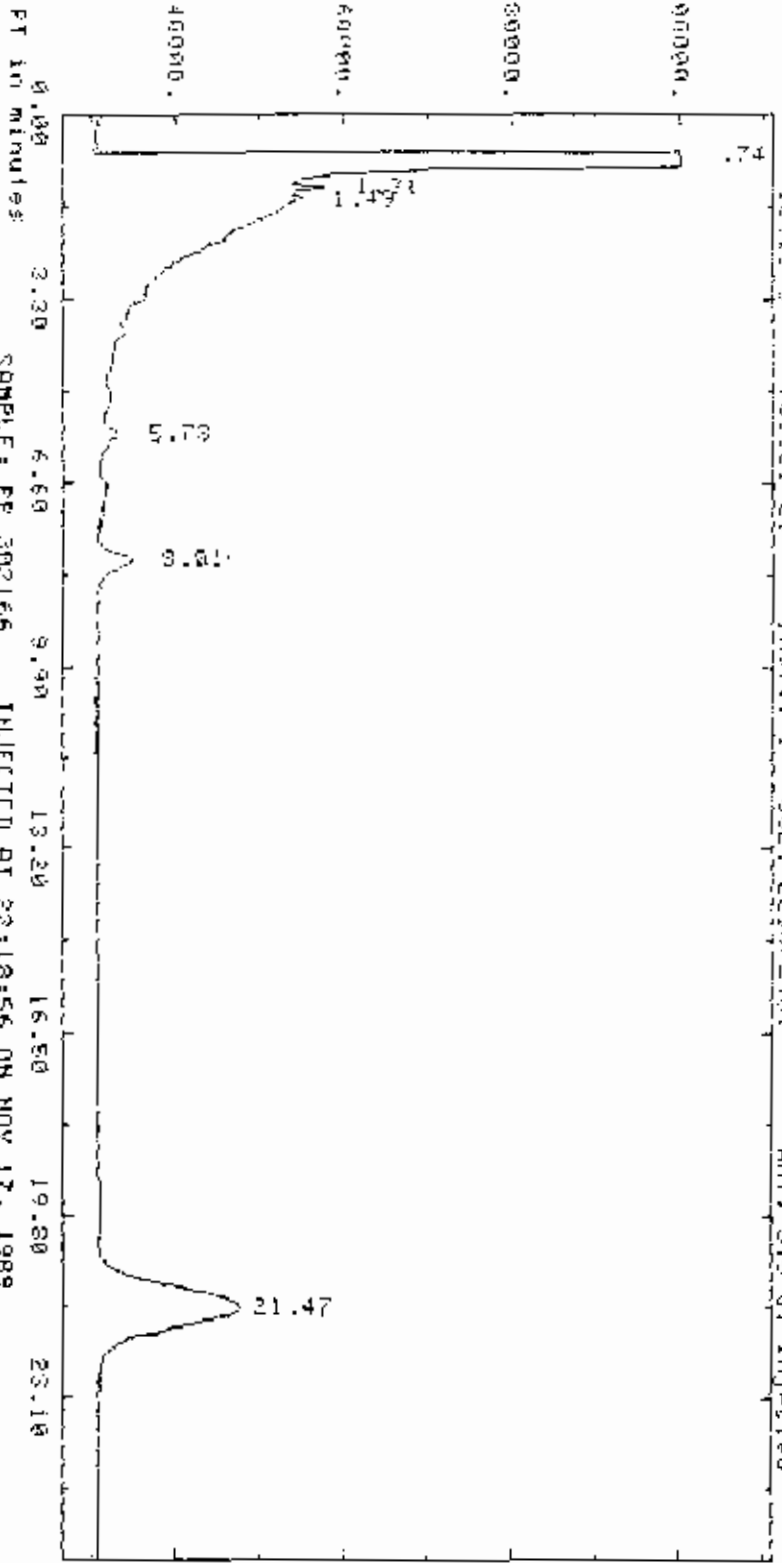
Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} \times \text{Standard Conc} \times \text{Multiplication Factor} \times \text{Split} \times \text{Final Volume} \times \text{Dry Weight Factor}}{\text{Standard Area} \times \text{Volume or Weight of Sample}}$

File : P1347 Column : 2250/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

4,4'-DDE	Standard RT window - 7.73 - 8.05	Sample RT - 8.01	
	Standard Area - 138901	Sample Area - 42018	
	Standard Conc(ug/ml) - 0.020	Sample Conc(ug/L) - 0.05 (BDL)	
		Sample ng on col - 0.005289	
DBC	Standard RT window - 21.03 - 21.89	Sample RT - 21.47	Primary/Reported DADS
	Standard Area - 620526	Sample Area - 422719	
	Standard Conc(ug/ml) - 0.100	Sample Conc(ug/L) - 0.68	68.12 % Recovery
		Sample ng on col - 0.068123	

Analyst Comments:



12410 5 733001-26 INST.: 1 VOL.: 2250/2401 RMT: 5.0 ul injected

SAMPLE: PP 302166 INJECTED AT 22:18:56 ON NOV 17, 1989

Method: PACT01 Pass: R1347 Proc: P1347

Report: 12092.00 Channel: 1 IR410 5 755001-26
 Sample: PP 302166 Injected at 72:13 56 ON 100 17, 1707
 ZEPD Method: PAK01 Seq: 50013 Sensor/Samp: 1.47 0:1 47
 ST-Width 60/Min Delay Min-Dr Zebra
 300 .300 0.00 0.00 Auto
 Sep-Ways DLT ID-Lo1 Ref-RTU %RTW Zb1 f Iso
 00 0.00 0 0.30 5.0 100.00 00
 Actual run time: 26.012 minutes

RT	ITM	Factor	Area	AREA %	Name
0.74	0.00	.10000E+01	6.00	0.000	BB
1.34	0.00	.10000E+01	2240.00	1.537	BB
1.49	0.00	.10000E+01	16856.00	3.349	BB
5.73	0.00	.10000E+01	14222.00	2.824	BB
9.01	0.00	.10000E+01	42018.00	8.544	BB
21.47	0.00	.10000E+01	422715.00	83.945	BB
Total Area = 503565			Total AREA % = 422718.530		
Processed data file: P1347			Raw data file: R1347		

LAB INSTRUCTIONS:

INORGANICS GET J DEL'S - CASE#RA-789 SDG#317
SHIP AS A CASE

WORKSHEETS
RECEIPT DATE 11/15/89

CASE # ^{18410.S} ~~18410.S~~ COMPUchem # 3021660E

Sample Prep Code--- -55
Instrument Code-----144
Compound List-----499
Surrogate Std-----395

GC/ECD; PEST/PCB; WATER SOW 2/88

=====

SAMPLE ID# 718001-26
Blank Associated with Case _____
Associated Blank _____

=====

EXTRACTION INFORMATION: CALC Used? yes | |

Vol. of sample 100 ml final volume of extract 10 mls

portion of Vol. in pesticide _____.

=====

ANALYSIS INFORMATION: COMMENTS | | Send to QA
| | QA Approved
| | Need QC/MS Confirmation

Inst. # /
Date Sequence Dil. Fact.

11/17 1 12 1 *BDL*

Analyst 1569/819 Date 11/28/89

=====

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 68 % Recovery
AREA IN STD _____

% Recovery X 0.1 ug/ml = _____ ug/ml

=====

+EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.
JA = reinject acceptable
QA = repeat confirmed original results
OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+= ok
NS = insufficient sample for repeat
DL = DBC low ((20% Recovery)
DA = Dilution Acceptable
BF = Blank Requires Florisil
CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

| | GANA | | QAN3 QA notice included.

=====

SAMPLE DISPOSITION Code

| | Complete.....
| | Requires Re-extraction.. -55
| | Requires cleanup..... 901

=====

Audited By _____ Date _____

ASSIGNED TO *Mark J. Rice*
 EMPLOYEE ID # *1759*

COMPUCHEN LABORATORIES
 EXTRACTIION WORKSHEET
 EPA LUM LEVEL PESTICIDE WRITER

DATE EXTRACTED/POSTED *11-17-89*

CASE # *18410.5*

-055

QUEUE # 10

(2-88) Reqs

SAMPLE NUMBER	EPA ID #	DC TYPE	SAMPLE ORIG #	SAMPLE VOLUME	ALUMINA STRT VOL	FINAL VOL.	COMMENTS
1	302150	738001-15		1000µl.	1.0µl.	10µl.	<i>Use 500µl sample vol. for 50 µl vol. add 0.5µl water.</i>
2	302154	738001-16		1000µl.	1.0µl.	10µl.	<i>add 50µl water. Same as Subst. #141-142.</i>
3	302155	738001-22		1000µl.	1.0µl.	10µl.	
4	302157	738001-25		1000µl.	1.0µl.	10µl.	
5	302166	738001-24		1000µl.	1.0µl.	10µl.	
6	302168	738001-21		1000µl.	1.0µl.	10µl.	
7	302172	738001-17		1000µl.	1.0µl.	10µl.	
8	302173	738001-18		1000µl.	1.0µl.	10µl.	
9	302174	738001-13		1000µl.	1.0µl.	10µl.	
10	302175	738001-14		1000µl.	1.0µl.	10µl.	
11	302176	738001-24		1000µl.	1.0µl.	10µl.	
12	302182	738001-23		1000µl.	1.0µl.	10µl.	
13							
14	ALUMINA BUX		B	1.0µl.	1.0µl.	1.0µl.	<i>LOT # 30391 amount 1.0µl. # 57</i>
15							
16							
17							
18							
19							
20							
21	303880	PBLK 25	BALBINK	1000µl.	1.0µl.	10µl.	
22	303881	PBLK 26	BALBINK	1000µl.	1.0µl.	10µl.	

Q RNDQMT LOT
 SURR 395 1 ML *30412*
 SPIKE 4016 100 UL *XX*

CHECKED RMD VERIFIED *11/17/89* (GC LNU)
 CASE DONE *11-10-89-AC* (GC RD)

AUTO. COUNTER 718/
 MANUAL COUNTER 795/511

1052

COMPOUND LIST NO. - 499

COMPUCHEM # 302166 DATE
IDENTIFIER PESTICIDES (LOW LEVEL WATER), EPA SQW 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ /5 = 1.0
AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----		0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAM I-----		0.050
12.	0712	ENDOSULFAM II-----		0.10
13.	0713	ENDOSULFAM SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

C. STANDARDS DATA

- (1) Form VIII PEST - Pesticide Evaluation Standards Summary (all GC columns)
 - (2) Form IX PEST - Pesticide/PCB Standards Summary (all GC columns)
 - (3) Form X PEST - Pesticide/PCB Identification (only required for positive results)
 - (4) Pesticide standard chromatograms and data system printouts for all standards to include:
 - Evaluation Standard Mix A
 - Evaluation Standard Mix B
 - Evaluation Standard Mix C
 - Individual Standard Mix A
 - Individual Standard Mix B
 - All multi-response Pesticide/PCBs
 - All quantitation standards
 - A copy of the computer reproduction or strip chart recorder output covering the 100 fold range
- (a) All chromatograms are required to have the following:
- Label all standard peaks for all individual compounds either directly out from the peak or on the printout of retention times if retention times are printed over the peak
 - Label the chromatogram for multicomponent standards
 - List total ng injected for each standard
 - A printout of retention times and corresponding peak areas must accompany each chromatogram
 - Date and time of injection
 - GC column identification (by secondary phase)
 - GC instrument identification

(1) Form VIII PEST - Pesticide Evaluation Standards Summary (all GC columns)

8D
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REYS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument IO: 01 GC Column ID: 2250/2401
 Dates of Analyses: 11/15/89 to 11/18/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (\leq / 10.0%)
Aldrin	10263000	10246750	9899800	2.0
Endrin	1254937	1296100	1251475	2.0
4,4'-DDT	3765583	4197250	4497958	8.9
DBC	6829050	6693620	6378990	3.5

(1)

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

		DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
	INITIAL					
01	EVAL MIX B	11/15/89	15:44	0.00	0.00	
02	EVAL MIX B	11/16/89	00:50	0.00	0.00	
03	EVAL MIX B	11/16/89	19:39	0.00	0.00	
04	EVAL MIX B	11/17/89	19:34	0.00	0.00	

(2) See Form instructions.

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 01 GC Column ID: 2250/2401
 Date of Analyses: 11/15/89 to 11/18/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	EVALA	11/15/89	15:16	0.0	
02	EVALB	EVALB	11/15/89	15:44	0.8	
03	EVALC	EVALC	11/15/89	16:13	0.9	
04	INDA	SD 4360	11/15/89	17:14	-1.2	
05	INOB	SD 4364	11/15/89	17:42	-1.0	
06	TOXAPH	SD TOXA	11/15/89	18:10	-1.1	
07	AR1660	SD ARMX	11/15/89	18:39	-0.8	
08	AR1221	SD 1221	11/15/89	19:41	-0.5	
09	AR1232	SD 1232	11/15/89	20:09	-0.6	
10	AR1242	SD 1242	11/15/89	20:37	-0.5	
11	AR1248	SD 1248	11/15/89	21:06	-0.9	
12	AR1254	SD 1254	11/15/89	22:00	-1.0	
13	PBLK51	PP 300596 B1	11/15/89	22:28	-0.9	
14	BCC24	PP 300287	11/15/89	22:56	-0.8	
15	BCC25	PP 300298	11/15/89	23:25	-0.8	
16	BCC26	PP 300300	11/15/89	23:53	-0.8	
17	BCC27	PP 300301	11/16/89	00:21	-0.6	
18	EVALB	EVALB	11/16/89	00:50	-0.9	
19	BCC28	PP 300303 OR	11/16/89	01:18	-0.6	
20	BCC29	PP 300304	11/16/89	01:46	-0.8	
21	BCC30	PP 300306	11/16/89	02:15	-0.7	
22	PBLK97	PP 301960 B1	11/16/89	15:17	-0.1	
23	PBLK98	PP 301961 B2	11/16/89	15:46	-0.9	
24	INDA	SD 4360	11/16/89	16:14	-0.9	
25	BS	PP298835R2BS	11/16/89	16:42	-0.8	
26	BCW46MS	PP298834R2SS	11/16/89	17:11	0.1	
27	BCW46MSD	PP298835R2SS	11/16/89	17:39	1.0	
28		HEXANE	11/16/89	18:07		*
29	PBLK05	CP 301997 B1	11/16/89	19:11	-1.5	
30	EVALB	EVALB	11/16/89	19:39	-1.3	
31	CMW10M1GW	CP 300398 R	11/16/89	21:05	-1.5	
32	PBLK01	PP 302043 B1	11/16/89	21:34	-1.4	
33	PBLK02	PP 302044 B2	11/16/89	22:02	-1.4	
34	738001-11	PP 30187S	11/16/89	22:30	-1.2	
35	738001-07	PP 301879	11/16/89	22:58	-1.4	
36	INDB	SD 4364	11/16/89	23:27	-1.3	
37	738001-04	PP 301881	11/17/89	00:28	-1.2	
38	738001-09	PP 301886	11/17/89	00:56	-1.2	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 01 GC Column ID: 2250/2401
 Dates of Analyses: 11/15/89 to 11/18/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01		PP ALUM BK55	11/17/89	01:25	-1.3	
02	PBLK25	PP 302880 B1	11/17/89	17:49	-1.0	
03	PBLK26	PP 302881 B2	11/17/89	18:18	-0.8	
04	EVALB	EVALB	11/17/89	19:34	-0.9	
05	738001-15	PP 302150	11/17/89	20:10	-0.9	
06	738001-16	PP 302154	11/17/89	20:39	-0.9	
07	738001-22	PP 302155	11/17/89	21:07	-0.8	
08	738001-25	PP 302157	11/17/89	21:50	-0.9	
09	738001-26	PP 302166	11/17/89	22:18	-1.2	
10	INDA	SD 4360	11/17/89	22:47	-0.9	
11	738001-21	PP 302168	11/18/89	09:26	-0.8	
12	738001-17	PP 302172	11/18/89	09:55	-1.0	
13	738001-18	PP 302173	11/18/89	10:23	-1.0	
14	738001-13	PP 302174	11/18/89	10:51	-1.0	
15	738001-14	PP 302175	11/18/89	11:20	-1.2	
16	INDB	SD 4364	11/18/89	14:10	-1.0	
17	INDA	SD 4360	11/18/89	14:38	-1.2	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

8D
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 03 GC Column ID: QY-101
 Dates of Analyses: 11/14/89 to 11/16/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (\leq 10.0%)
Aldrin	6182094	6095100	6024450	1.3
Endrin	3407532	3280338	3242982	2.6
4,4'-DDT	3418312	3416817	3458933	0.7
DBC	4789475	4582120	4398135	4.3

(1)

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
INITIAL					
01 EVAL MIX B	11/14/89	00:47			7.82
02 EVAL MIX B	11/14/89	11:21			2.20
03 EVAL MIX B	11/14/89	17:01			6.92
04 EVAL MIX B	11/14/89	23:10			8.34
05 EVAL MIX B	11/15/89	22:34			10.37
06 EVAL MIX B	11/16/89	04:26			11.80
07 EVAL MIX B	11/16/89	16:01			12.52

(2) See Form instructions.

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchlorodate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5

Instrument ID: 03 GC Column ID: QV-101

Dates of Analyses: 11/14/89 to 11/16/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	EVALA	11/14/89	00:19	0.0	
02	EVALB	EVALB	11/14/89	00:47	0.1	
03	EVALC	EVALC	11/14/89	01:16	-0.1	
04	INDA	SD 4360	11/14/89	01:44	0.2	
05	INDB	SD 4364	11/14/89	02:12	0.0	
06	TOXAPH	SD TOXA	11/14/89	02:41	0.0	
07	AR1660	SD ARMX	11/14/89	03:09	0.3	
08	AR1221	SD 1221	11/14/89	03:37	-0.0	
09	AR1232	SD 1232	11/14/89	04:06	0.0	
10	AR1242	SD 1242	11/14/89	04:34	-0.1	
11	AR1248	SD 1248	11/14/89	05:02	-0.3	
12	AR1254	SD 1254	11/14/89	05:30	-0.1	
13	04SS001XX	CP 300189	11/14/89	08:59	-1.8	
14	04SS002XX	CP 300191	11/14/89	09:27		*
15	04SS003XX	CP 300197	11/14/89	09:56		*
16	04SS004DP	CP 300199	11/14/89	10:24	-2.0	*
17	PBLK65	PP 300876 B1	11/14/89	10:52	-1.6	
18	EVALB	EVALB	11/14/89	11:21	-1.4	
19	PBLK66	PP 300877 B2	11/14/89	11:49	-1.6	
20	RECOVERYW	PP 300758 O	11/14/89	12:17	-1.9	
21	RECOVERYWMS	PP 300765 SS	11/14/89	12:46	-1.6	
22	RECOVERYWMSD	PP 300766 SS	11/14/89	13:14	-1.2	
23	BS	PP 300767 BS	11/14/89	13:42	-1.0	
24	INDA	SD 4360	11/14/89	14:11	-0.9	
25		PP ALUM.BK34	11/14/89	14:39	-1.0	
26	SED-P8-1MS	CP 299419R	11/14/89	15:07	-1.2	
27	SED-P8-1MSD	CP 299420 SS	11/14/89	15:36	0.9	
28	SED-N1-1	CP 299411	11/14/89	16:04		*
29	PBLK29	CP 300118 B	11/14/89	16:32	-0.9	
30	EVALB	EVALB	11/14/89	17:01	-0.6	
31	SED-N2-1	CP 299418	11/14/89	17:36	-0.7	
32	SED-N3-1	CP 299422	11/14/89	18:05	-0.8	
33	SED-N11-1	CP 299423	11/14/89	18:33	-1.0	
34	SED-D7-1	CP 299424	11/14/89	19:01	-0.9	
35	SED-D10-1	CP 299425	11/14/89	19:30	-0.7	
36	INDB	SD 4364	11/14/89	19:58	-0.7	
37	SED-S4-1	CP 299426	11/14/89	20:49	-1.1	
38	SED-S5-1	CP 299427	11/14/89	21:17	-1.2	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPV Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: Q3 GC Column ID: QV-101
 Dates of Analyses: 11/14/89 to 11/16/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	SED-S6-1	CP 299428	11/14/89	21:45	-0.9	
02	SED-DUP-1	CP 299429	11/14/89	22:14	-1.0	
03	SED-P8-1	CP 299630 B	11/14/89	22:42	-0.7	
04	EVALB	EVALB	11/14/89	23:10	-0.6	
05	SED-D9-1	CP 299635	11/14/89	23:39	-1.0	
06	PBLK65	PP 300876 B1	11/15/89	00:07	-1.1	
07	BCC29	CP 300304	11/15/89	00:35	-1.1	
08	BCC30	CP 300306	11/15/89	01:04	-1.2	
09	04SS003XX	PP 300197	11/15/89	01:32		*
10	INDA	SD 4360	11/15/89	09:02	-0.9	
11	04SS004DP	PP 300199	11/15/89	10:15	0.9	
12	738001-01	PP 301917 O	11/15/89	20:14	1.4	
13	GWR102-91	PP 298960 O	11/15/89	21:09	0.9	
14	738001-01MSD	PP 301927 SS	11/15/89	21:37	0.9	
15	BS	PP 301928 BS	11/15/89	22:06	0.6	
16	EVALB	EVALB	11/15/89	22:34	0.7	
17	738001-12	PP 301909	11/15/89	23:15	0.9	
18	738001-02	PP 301910	11/15/89	23:43	1.0	
19	738001-03	PP 301918	11/16/89	00:11	0.7	
20	738001-08	PP 301922	11/16/89	00:40	0.7	
21	PBLK03	PP 301989 B1	11/16/89	01:08	0.6	
22	INDB	SD 4364	11/16/89	01:36	0.7	
23	738001-05	PP 301937	11/16/89	02:05	0.8	
24	738001-10	PP 301938	11/16/89	02:33	0.7	
25	738001-06	PP 301939	11/16/89	03:01	0.6	
26		PP ALU B#50	11/16/89	03:29	0.5	
27	PBLK04	PP 301990 B2	11/16/89	03:58	0.6	
28	EVALB	EVALB	11/16/89	04:26	0.6	
29	738001-01MS	PP 301926 SS	11/16/89	04:54	0.5	
30	PBLK07	PP 302341 B1	11/16/89	10:32	0.8	
31	MW-4MSD	PP 301888 SS	11/16/89	11:41	0.8	
32	MW-4MS	PP 301887 SS	11/16/89	12:10	0.9	
33	PBLK08	PP 302342 B2	11/16/89	12:38	1.2	
34	INDA	SD 4360	11/16/89	13:06	1.3	
35	MW-4	PP 301877	11/16/89	13:35	1.1	
36	BS	PP 301889 BS	11/16/89	14:03	1.2	
37		PP ALUM. BK52	11/16/89	14:31	1.1	
38	PBLK09	PP 302343 B1	11/16/89	15:00	1.1	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: Q3 GC Column ID: OV-101
 Dates of Analyses: 11/14/89 to 11/16/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	PBLK10	PP 302344 B2	11/16/89	15:28	1.8	
02	EVALB	EVALB	11/16/89	16:01	1.2	
03	T-WHSE11	PP 301752	11/16/89	16:29	1.2	
04		PP ALUM.BK53	11/16/89	16:57	1.1	
05	PBLK86	CP 301739 B	11/16/89	19:54	1.2	
06	9168TR121MS	CP297247R2SS	11/16/89	20:23	0.5	
07	9168TR121MSD	CP297248R2SS	11/16/89	20:51	0.3	
08	INDB	SD 4364	11/16/89	21:19	0.9	
09	INDA	SD 4360	11/16/89	22:23	0.9	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

BD
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REYS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 07 GC Column ID: 2250/2401
 Dates of Analyses: 11/15/89 to 11/18/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (\leq 10.0%)
Aldrin	24263752	23898252	23474076	1.7
Endrin	13690814	13475300	13007720	2.3
4,4'-DDT	10824700	11010516	11492170	3.1
DDC	16740950	18039000	15316206	8.2

(1)

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
INITIAL					
01	EVAL MIX B	11/15/89	16:22	0.00	0.00
02	EVAL MIX B	11/16/89	01:47	0.00	6.90
03	EVAL MIX B	11/16/89	06:58	0.00	6.24
04	EVAL MIX B	11/17/89	03:29	0.00	7.86
05	EVAL MIX B	11/17/89	11:06	0.00	8.55

(2) See Form instructions.

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: COMPUCREM LABORATORIES Contract: (2-88)-REYS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 07 GC Column ID: 2250/2401
 Dates of Analyses: 11/15/89 to 11/18/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	EVALA	11/15/89	15:53	0.0	
02	EVALB	EVALB	11/15/89	16:22	-0.6	
03	EVALC	EVALC	11/15/89	18:36	0.7	
04	INDA	SD 4360	11/15/89	19:39	1.0	
05	INDB	SD 4364	11/15/89	20:07	0.8	
06	TOXAPH	SD TOXA	11/15/89	20:35	1.1	
07	AR1660	SD ARMX	11/15/89	21:04	0.8	
08	AR1221	SD 1221	11/15/89	21:32	0.8	
09	AR1232	SD 1232	11/15/89	22:00	0.7	
10	AR1242	SD 1242	11/15/89	22:29	0.7	
11	AR1248	SD 1248	11/15/89	22:57	0.7	
12	AR1254	SD 1254	11/15/89	23:25	0.7	
13	9168TR121MS	PP 297247RSS	11/15/89	23:54		*
14	9168TR121MSD	PP 297248RSS	11/16/89	00:22		*
15	PBLK36	PP 300366 B1	11/16/89	00:50	0.7	
16	BCC09	PP 300252	11/16/89	01:19	0.7	
17	EVALB	EVALB	11/16/89	01:47	0.7	
18	BCC11	PP 300260	11/16/89	02:15	0.7	
19	BCC13	PP 300262	11/16/89	02:44	0.8	
20	BCC14	PP 300264	11/16/89	03:12	0.9	
21	BCC15	PP 300266	11/16/89	03:40	0.8	
22	INDA	SD 4360	11/16/89	04:08	1.1	
23	BCC16	PP 300268	11/16/89	04:37	0.8	
24	BCC17	PP 300270	11/16/89	05:05	0.8	
25	BCC18	PP 300272	11/16/89	05:33	0.9	
26	BCC20	PP 300275	11/16/89	06:02	1.0	
27	BCC22	PP 300278	11/16/89	06:30	0.9	
28	EVALB	EVALB	11/16/89	06:58	0.9	
29	BCC23	PP 300283	11/16/89	07:27	1.1	
30	BCC08	PP 300251	11/16/89	10:22		*
31	BCC10	PP 300255	11/16/89	10:50	0.8	
32	PBLK11	PP 302429 B1	11/16/89	23:42	0.1	
33	PBLK12	PP 302430 B2	11/17/89	00:11	0.2	
34	INDB	SD 4364	11/17/89	00:39	0.1	
35	GW-1303-A	PP 301844 OR	11/17/89	01:07	0.1	
36	GW-1303-AMS	PP 301848 SS	11/17/89	01:36	0.1	
37	GW-1303-AMSD	PP 301849 SS	11/17/89	02:04	0.2	
38	BS	PP 301850 BS	11/17/89	02:32	0.1	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 07 GC Column ID: 2250/2401
 Dates of Analyses: 11/15/89 to 11/18/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	BS	PP 301850DBS	11/17/89	03:01	0.3	
02	EVALB	EVALB	11/17/89	03:29	0.2	
03	GW-1304-A	PP 301869	11/17/89	03:57	0.2	
04	GW-1101-A	PP 301870	11/17/89	04:25	0.2	
05	GW-1102-A	PP 301871	11/17/89	04:54	0.2	
06	GW-1103-A	PP 301874	11/17/89	05:22	0.2	
07	GW-1104-A	PP 301875	11/17/89	05:50	0.2	
08	INDA	SD 4360	11/17/89	06:19	-0.0	
09	GW-1105-A	PP 301876	11/17/89	06:47	0.1	
10	GW-1301-A	PP 301880	11/17/89	07:15	-0.0	
11	GW-1302-A	PP 301882	11/17/89	07:44	-0.0	
12	GW-1303AD	PP 301890	11/17/89	08:12	0.2	
13		ALUM BLK#51	11/17/89	08:40	0.0	
14	EVALB	EVALB	11/17/89	11:06	1.1	
15	738001-12	CP 301909	11/17/89	11:43	1.2	
16	738001-08	CP 301922	11/17/89	12:11	1.0	
17	738001-05	CP 301937	11/17/89	12:40	1.1	
18	738001-06	CP 301939	11/17/89	13:08	1.0	
19	PBLK03	CP 301989 B	11/17/89	13:36	2.0	
20	INDB	SD 4364	11/17/89	14:05	0.8	
21	BCC08	PP 300251	11/17/89	16:42	0.9	
22	BCC21	PP 300276	11/17/89	17:10	0.7	
23	INDA	SD 4360	11/18/89	13:04	0.5	
24	INDB	SD 4364	11/18/89	13:32	0.3	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

BD
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 07 GC Column ID: 2250/2401
 Dates of Analyses: 11/29/89 to 12/02/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (\leq 10.0%)
Aldrin	19715628	19609176	18693152	2.9
Endrin	11790360	11264450	10850238	4.2
4,4'-DDT	9773958	10268182	10203876	2.7
DBC	13093938	13157516	12287250	3.8

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
INITIAL					
01 EVAL MIX B	11/29/89	17:22	0.00	0.00	
02 EVAL MIX B	11/30/89	02:56	0.00	0.00	
03 EVAL MIX R	11/30/89	12:39	0.00	0.00	
04 EVAL MIX B	11/30/89	19:12	0.00	0.00	
05 EVAL MIX B	12/01/89	02:51	0.00	5.58	
06 EVAL MIX B	12/01/89	15:51	0.00	6.58	

(2) See Form instructions.

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 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 07 GC Column ID: 2250/2401
 Dates of Analyses: 11/29/89 to 12/02/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	EVALA	11/29/89	16:54	0.0	
02	EVALB	EVALB	11/29/89	17:22	-1.3	
03	EVALC	EVALC	11/29/89	17:50	-1.2	
04	INDA	SD 4360	11/29/89	19:11	-1.0	
05	INDB	SD 4364	11/29/89	19:40	-1.0	
06	TOXAPH	SO TOXA	11/29/89	20:08	-0.9	
07	AR1660	SD ARMX	11/29/89	20:36	-0.9	
08	AR1221	SD 1221	11/29/89	21:05	-1.0	
09	AR1232	SD 1232	11/29/89	21:33	-0.9	
10	AR1242	SD 1242	11/29/89	22:01	-0.9	
11	AR1248	SD 1248	11/29/89	22:30	-0.8	
12	AR1254	SD 1254	11/30/89	00:06	-0.9	
13	PBLK75	PP 304230 B1	11/30/89	00:34	-1.0	
14	PBLK76	PP 304231 B2	11/30/89	01:02	-1.0	
15	EPS321121	PP 303902	11/30/89	01:31	0.7	
16	EPS331121	PP 303903	11/30/89	01:59	-0.7	
17	EPS341121	PP 303904	11/30/89	02:27	0.7	
18	EVALB	EVALB	11/30/89	02:56	-1.0	
19	EPS351121	PP 303905	11/30/89	03:24	0.7	
20	EPS361121	PP 303906	11/30/89	03:52	1.0	
21	EPS371121	PP 303907	11/30/89	04:21	-1.3	
22	EPS381121	PP 303913	11/30/89	04:49		*
23	EPS391121	PP 303914	11/30/89	05:17	-0.2	
24	INDA	SD 4360	11/30/89	05:46	-0.9	
25	EPS401121	PP 303915	11/30/89	06:14	0.3	
26	738001-08-	PP 301922R	11/30/89	09:17	-1.3	
27	738001-05-	PP 301937R	11/30/89	09:45	-1.3	
28		PP TEST H	11/30/89	11:42		*
29		PP TEST RH	11/30/89	12:11		*
30	EVALB	EVALB	11/30/89	12:39	-1.2	
31	PBLK65	C 304208 B1	11/30/89	13:15	-1.4	
32	S-02-AR	CP 303529	11/30/89	13:44	-1.6	
33	EPS321121	PP 303902	11/30/89	14:12	0.3	
34	EPS341121	PP 303904	11/30/89	14:40	0.3	
35	EPS381121	PP 303913	11/30/89	15:53	-1.3	
36	INDB	SD 4364	11/30/89	16:22	-1.5	
37	B08-1	PP 304671 O	11/30/89	16:50	-1.3	
38	B08-1MS	PP 304684 SS	11/30/89	17:18	-1.1	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchlorodate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REYS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: Q7 GC Column ID: 2250/2401
 Dates of Analyses: 11/29/89 to 12/02/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	B08-1MSD	PP 304685 SS	11/30/89	17:47	-0.8	
02	BS	PP 304687 BS	11/30/89	18:15	-0.6	
03	PBLK01	PP 304740 B1	11/30/89	18:43	-0.6	
04	EVALB	EVALB	11/30/89	19:12	-0.2	
05	B08-2	PP 304672	11/30/89	20:42	-0.3	
06	B09-1	PP 304673	11/30/89	21:10	-0.0	
07	B09-2	PP 304674	11/30/89	21:39	0.1	
08		PP ALU BL#93	11/30/89	22:07	-0.4	
09	PBLK02	PP 304741 B2	11/30/89	22:35	-0.6	
10	INDA	SD 4360	11/30/89	23:04	-0.6	
11	PBLK11	PP 304801 B1	12/01/89	00:30	-0.9	
12	PBLK12	PP 304802 B2	12/01/89	00:58	-0.7	
13	MW-1-20MS	PP 302199R	12/01/89	01:26	-0.9	
14	MW-1-20MSD	PP 302200RSS	12/01/89	01:55	-0.8	
15	BS	PP 302201R	12/01/89	02:23	-0.5	
16	EVALB	EVALB	12/01/89	02:51	-1.0	
17		ALUM BK97	12/01/89	03:20	-1.0	
18	PBLK05	PP 304755 B1	12/01/89	03:48	-0.9	
19		ALUM BK95	12/01/89	04:16		*
20	PBLK06	PP 304756 B2	12/01/89	04:44	-0.6	
21	09SD901X4MS	PP 303221R	12/01/89	05:13	-0.5	
22	INDB	SD 4364	12/01/89	05:41	-0.9	
23	09SD901X4MSD	PP 303222RSS	12/01/89	06:09	-1.2	
24	BS	PP 303223R	12/01/89	06:38	-0.9	
25		PP ALU#95	12/01/89	08:27	-1.7	
26	PBLK19	PP 303176 B	12/01/89	14:42	0.2	
27	PBLK03	CP 3D4760 B	12/01/89	15:23	0.9	
28	EVALB	EVALB	12/01/89	15:51	0.6	
29	ROLSIGW1	CP 304571	12/01/89	16:52	0.8	
30	EPS311121	PP 303901	12/02/89	10:46	D.3	
31	EPS281121	PP 303896	12/02/89	11:14	-0.3	
32	EPS291121	PP 303899	12/02/89	11:43	0.7	
33	PBLK78	PP 304213 B1	12/02/89	12:11	0.5	
34	INDA	SD 4360	12/02/89	14:39	-0.9	
35	INDB	SD 4364	12/02/89	15:36	0.3	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

8D
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 12 GC Column ID: 2250/2401
 Dates of Analyses: 11/22/89 to 11/22/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (\leq 10.0%)
Aldrin	999500	1079850	1046787	3.9
Endrin	450031	408956	387219	7.7
4,4'-DDT	625250	634733	626025	0.8
DBC	701100	784260	774810	6.0

(1)

(1) If $> 10.0\%$ RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
INITIAL					
01 EVAL MIX B	11/21/89	21:03	0.00	0.00	
02 EVAL MIX B	11/22/89	06:46	0.00	8.88	
03 EVAL MIX B	11/22/89	17:33	0.00	17.95	

(2) See Form instructions.

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-881)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 12 GC Column ID: 2250/2401
 Dates of Analyses: 11/21/89 to 11/22/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	EVALA	11/21/89	20:33	0.0	
02	EVALB	EVALB	11/21/89	21:03	-0.1	
03	EVALC	EVALC	11/21/89	21:31	-0.1	
04	INDA	SD 4360	11/22/89	00:16	-0.6	
05	INDB	SD 4364	11/22/89	00:43	-0.5	
06	TOXAPH	SD TOXA	11/22/89	01:11	-0.5	
07	AR1660	SD ARMX	11/22/89	01:39	-0.6	
08	AR1221	SD 1221	11/22/89	02:07	-0.5	
09	AR1232	SD 1232	11/22/89	02:35	-0.5	
10	AR1242	SD 1242	11/22/89	03:03	-0.5	
11	AR1248	SD 1248	11/22/89	03:31	-0.6	
12	AR1254	SD 1254	11/22/89	03:59	-0.6	
13	BS	PP 300767RBS	11/22/89	04:27	-0.7	
14		PP ALUM BK63	11/22/89	04:55		*
15	PBLK23	PP 303249 B1	11/22/89	05:23	-0.6	
16	738001-07MS	PP 301901 SS	11/22/89	05:51	-0.6	
17	738001-07MSD	PP 301902 SS	11/22/89	06:19	-0.6	
18	EVALB	EVALB	11/22/89	06:46	-0.6	
19	BS	PP 301903 BS	11/22/89	07:14	-0.6	
20	PBLK26	PP 302881 B2	11/22/89	07:42	-0.6	
21	PBLK25	PP 302880 B1	11/22/89	08:10	-0.8	
22	738001-23	PP 302182	11/22/89	08:38	-0.9	
23	738001-24	PP 302176	11/22/89	09:06	-0.7	
24	INDA	SD 4360	11/22/89	09:34	0.0	
25	738001-21	PP 302168	11/22/89	10:02	-0.0	
26	PBLK40	PP 303371 B2	11/22/89	12:12	-0.1	
27	SOIL-FB-1	CP 302177	11/22/89	13:08	-0.2	
28	PBLK39	CP 303370 B1	11/22/89	14:32	0.1	
29	PBLK41	PP 303466 B1	11/22/89	15:00	0.2	
30	EVALB	EVALB	11/22/89	17:33	0.4	
31	09SD901X4	PP 303220 O	11/22/89	18:22	0.3	
32	PBLK42	PP 303467 B2	11/22/89	18:50	0.4	
33	09SD901X4MS	PP 303221 SS	11/22/89	19:18	0.2	
34	09SD901X4MSD	PP 303222 BS	11/22/89	19:46	0.2	
35	BS	PP 303223 BS	11/22/89	20:14	0.4	
36	INDB	SD 4364	11/22/89	21:58	0.3	
37	INDA	SD 4360	11/22/89	23:10	0.2	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

9D
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101
 Dates of Analyses: 11/20/89 to 11/22/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (\leq 10.0%)
Aldrin	9474750	10137350	9782488	3.4
Endrin	4045125	4396225	4303638	4.3
4,4'-DDT	4331354	5072733	5251783	10.0
DBC	6017800	6398280	6233390	3.1

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
INITIAL					
01 EVAL MIX B	11/20/89	17:49			8.06
02 EVAL MIX B	11/21/89	03:07			6.27
03 EVAL MIX B	11/21/89	16:28			6.31
04 EVAL MIX B	11/21/89	21:55			8.22
05 EVAL MIX B	11/22/89	04:06			8.10
06 EVAL MIX B	11/22/89	09:33			7.34
07 EVAL MIX B	11/22/89	17:13			8.87

(2) See Form instructions.

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchlorodate

Lab Name: COMPUCHEM LABORATORIES Contract: 12-881-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101
 Dates of Analyses: 11/20/89 to 11/22/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	EVALA	11/20/89	17:22	0.0	
02	EVALB	EVALB	11/20/89	17:49	-0.0	
03	EVALC	EVALC	11/20/89	18:16	0.1	
04	INDA	SD 4360	11/20/89	19:25	0.3	
05	INDB	SD 4364	11/20/89	19:52	0.2	
06	TOXAPH	SD TOXA	11/20/89	20:20	0.4	
07	AR1660	SD ARMX	11/20/89	22:07	0.3	
08	AR1221	SD 1221	11/20/89	22:35	0.1	
09	AR1232	SD 1232	11/20/89	23:02	0.2	
10	AR1242	SD 1242	11/20/89	23:29	0.3	
11	AR1248	SD 1248	11/20/89	23:56	0.3	
12	AR1254	SD 1254	11/21/89	00:24	0.3	
13	PBLK39	PP 303370 B1	11/21/89	00:51	0.2	
14	POT-1	PP 302185 O	11/21/89	01:18	0.2	
15	POT-1MS	PP 302181 SS	11/21/89	01:45	0.2	
16	POT-1MSD	PP 302183 SS	11/21/89	02:13	0.2	
17	BS	PP 302184 BS	11/21/89	02:40	0.2	
18	EVALB	EVALB	11/21/89	03:07	0.2	
19	SOIL-FB-1	PP 302177	11/21/89	03:34	0.2	
20	PBLK01	CP 302043 B	11/21/89	04:02	0.1	
21	738001-11	CP 301878	11/21/89	04:29	-0.5	
22	738001-04	CP 301881	11/21/89	04:56	-0.6	
23	PBLK19	PP 303176 B1	11/21/89	05:23	-1.0	
24	INDA	SD 4360	11/21/89	05:50	-1.1	
25	PBLK20	PP 303177 B2	11/21/89	06:18	-1.0	
26	738001-01MS	PP 301926RSS	11/21/89	06:45	-1.0	
27	738001-01MSD	PP 301927BSS	11/21/89	07:12	-1.3	
28	BS	PP 301928RBS	11/21/89	07:39	-1.2	
29	GW-01-AR	PP 302606	11/21/89	16:01	0.1	
30	EVALB	EVALB	11/21/89	16:28	0.1	
31	GW-0204AD	PP 302607	11/21/89	16:58	0.2	
32	GW-1001-A	PP 302608	11/21/89	17:23	0.8	
33	GW-0202-A	PP 302609	11/21/89	17:50	0.7	
34	PBLK18	PP 302813 B2	11/21/89	18:17		*
35	GW-0201-A	PP 302610	11/21/89	18:44	1.4	
36	INDB	SD 4364	11/21/89	19:11	1.3	
37	GW-1003-A	PP 302611	11/21/89	19:39	1.2	
38	GW-0203-A	PP 302612	11/21/89	20:06	1.0	

* Value outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101
 Dates of Analyses: 11/20/89 to 11/22/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	738001-10	PP 301938 R	11/21/89	20:33	0.9	
02	GW-0304-AMSD	PP 302065 SS	11/21/89	21:01	0.7	
03	PBLK20	PP 303177 B2	11/21/89	21:28	0.6	
04	EVALB	EVALB	11/21/89	21:55	0.4	
05	GW-1002-A	PP 302613	11/21/89	22:22	0.3	
06	PBLK19	PP 303176 B1	11/21/89	22:50	0.2	
07	PBLK40	CP 303371 B2	11/22/89	00:01	0.1	
08	GW-1002-A	PP 302613	11/22/89	00:28	0.1	
09	PBLK18	PP 302813 B2	11/22/89	00:55	0.2	
10	INDA	SD 4360	11/22/89	01:22	0.2	
11	PBLK43	PP 303492 B1	11/22/89	01:50	0.2	
12	ACSAE0301	PP 303099 O	11/22/89	02:17	0.0	
13	ACSAE0301MS	PP 303106 SS	11/22/89	02:44	0.3	
14	ACSAE0301MSD	PP 303107 SS	11/22/89	03:11	0.4	
15	BS	PP 303108 BS	11/22/89	03:39	0.5	
16	EVALB	EVALB	11/22/89	04:06	0.2	
17	ACSF0401	PP 303110	11/22/89	04:33	0.2	
18	ACSAE0101	PP 303112	11/22/89	05:00	0.2	
19	ACSAE0201	PP 303113	11/22/89	05:28	-0.1	
20	ACSAE0391	PP 303114	11/22/89	05:55	-0.1	
21	ACSAE0401	PP 303115	11/22/89	06:22	-0.3	
22	INDB	SD 4364	11/22/89	06:49	-0.1	
23	PBLK44	PP 303493 B2	11/22/89	07:16	-0.0	
24	GW-1304-A	PP 301869 B	11/22/89	07:44	-0.2	
25	GW-1104-A	PP 301875	11/22/89	08:11	-0.4	
26	GW-1105-A	PP 301876 R	11/22/89	08:38	-0.4	
27		PP ALUM BK68	11/22/89	09:05	-0.6	
28	EVALB	EVALB	11/22/89	09:33	-0.6	
29		PP 4016 A	11/22/89	11:07		*
30		PP 4016 B	11/22/89	11:34		*
31		PP 395 A	11/22/89	12:01	-0.7	
32		PP 395 B	11/22/89	12:28	-0.8	
33	PBLK47	PP 303604 B1	11/22/89	13:46	-0.7	
34	INDA	SD 4360	11/22/89	14:13	-0.7	
35	SB-1R	PP 302993 O	11/22/89	14:40	-0.9	
36	SB-1RMS	PP 302998 SS	11/22/89	15:08	-0.8	
37	SB-1RMSD	PP 302999 SS	11/22/89	15:35	-0.8	
38	BS	PP 303000 BS	11/22/89	16:02	0.2	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchlorodate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101
 Dates of Analyses: 11/20/89 to 11/22/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	TAP-1	PP 302987	11/22/89	16:45	-0.1	
02	EVALB	EVALB	11/22/89	17:13	-0.0	
03	TB-4	PP 303010	11/22/89	17:40	-0.0	
04	PBLK17	PP 302812 B1	11/22/89	18:07	-0.1	
05	PBLK59	PPP 303635 B	11/22/89	18:34	-0.2	
06	PBLK60	PP 303636 B2	11/22/89	19:02	-0.3	
07	T-WHSE11	PP 303200	11/22/89	19:29	-0.3	
08	INDB	SD 4364	11/22/89	19:56	-0.1	
09		PP ALUM BK73	11/22/89	20:23	-0.2	
10	INDA	SD 4360	11/22/89	21:11	-0.2	
11	INDB	SD 4364	11/22/89	21:38	-0.8	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

8D
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101
 Dates of Analyses: 11/28/89 to 12/01/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (\leq / \neq 10.0%)
Aldrin	11360564	11031300	10548938	3.7
Endrin	4647860	4532594	4150594	5.9
4,4'-DDT	5335250	5499750	5545616	2.0
DBC	6840950	6730500	6466250	2.9

(1)

(1) If $> 10.0\%$ RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
	INITIAL				
01	EVAL MIX B	11/28/89			5.62
02	EVAL MIX B	11/29/89			7.45
03	EVAL MIX B	11/29/89			10.66
04	EVAL MIX B	11/29/89			13.49
05	EVAL MIX B	11/30/89			11.55
06	EVAL MIX B	11/30/89			14.83
07	EVAL MIX B	11/30/89			15.12

(2) See Form instructions.

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: OV-101
 Dates of Analyses: 11/28/89 to 12/01/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	EVALA	11/28/89	11:19	0.0	
02	EVALB	EVALB	11/28/89	11:47	-0.1	
03	EVALC	EVALC	11/28/89	12:14	-0.2	
04	INDA	SD 4360	11/28/89	13:13	0.0	
05	INDB	SD 4364	11/28/89	13:40	-0.2	
06	TOXAPH	SD TOXA	11/28/89	14:07	-0.2	
07	AR1550	SD ARMX	11/28/89	14:34	-0.1	
08	AR1221	SD 1221	11/28/89	15:02	-0.1	
09	AR1232	SD 1232	11/28/89	15:29	-0.2	
10	AR1242	SD 1242	11/28/89	15:56	-0.2	
11	AR1248	SD 1248	11/28/89	16:23	-0.3	
12	AR1254	SD 1254	11/28/89	16:51	-0.3	
13	PBLK41	CP 303466 B1	11/28/89	20:28	0.3	
14	09SD901X4	CP 303220	11/28/89	20:55	0.3	
15	PBLK25	CP 302880 B1	11/28/89	21:22	0.4	
16	738001-14	CP 302175	11/28/89	23:26	-0.8	
17	738001-24	CP 302175	11/28/89	23:53	-0.8	
18	EVALB	EVALB	11/29/89	00:20	-0.9	
19	738001-23	CP 302182	11/29/89	00:47	-0.8	
20	PBLK83	PP 304300 B1	11/29/89	01:15	-0.9	
21	PBLK84	PP 304301 B2	11/29/89	01:42	-1.0	
22	BS	PP 303536RBS	11/29/89	02:09	-1.3	
23	BS	PP 303537RBS	11/29/89	02:36	-1.6	
24	INDA	SO 4350	11/29/89	03:04	-1.5	
25	BS	PP 303538RBS	11/29/89	03:31	-1.7	
26	BS	PP 303538DBS	11/29/89	03:58	-1.5	
27		PP ALUM BK90	11/29/89	04:25	-1.7	
28	PBLK66	PP 304209 B2	11/29/89	04:53	-1.6	
29	BS	PP 303788 BS	11/29/89	05:20	-1.6	
30	EVALB	EVALB	11/29/89	05:47	-1.5	
31	BS	PP 303789 BS	11/29/89	06:14	-1.5	
32	BS	PP 303790 BS	11/29/89	06:41	-1.5	
33	DW112189	PP 303779	11/29/89	07:09	-1.4	
34	EPSFB1121	PP 304058	11/29/89	07:36	-1.4	
35		PP ALUM BK79	11/29/89	08:03	-1.4	
36	INDB	SD 4364	11/29/89	08:30	-1.3	
37	PBLK98	PP 304452 B1	11/29/89	09:20	-1.6	
38	738001-01MS	PP301926R2SS	11/29/89	09:48	-1.7	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: CONPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: OV-101
 Dates of Analysee: 11/28/89 to 12/01/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	738001-01MSD	PP301927R2SS	11/29/89	10:15	-1.9	
02	BS	PP301928R2BS	11/29/89	10:42	-1.8	
03	PBLK99	PP 304453 B2	11/29/89	12:17	-1.8	
04	EVALB	EVALB	11/29/89	12:45	-1.9	
05	PBLK55	CP 304264 B	11/29/89	14:42	1.8	
06	WCC000448	CP 303519	11/29/89	15:09	1.8	
07	PBLK56	CP 304265 B1	11/29/89	15:36	1.9	
08	04SS003XX	CP 300197R	11/29/89	18:47	-0.6	
09	PBLK96	PP 304454 B1	11/29/89	19:17	-0.6	
10	INDA	SD 4360	11/29/89	19:44	-0.5	
11	CARBOY#2	PP 304437	11/29/89	20:11	-0.4	
12	PBLK97	PP 304455 B2	11/29/89	20:38	-0.4	
13	CARBOY #1	PP 304436	11/29/89	21:06	-0.3	
14	PBLK65	PP 304208 B	11/29/89	23:07	-0.1	
15	S-02-AR	PP 303529	11/29/89	23:53	-0.0	
16	EVALB	EVALB	11/30/89	00:20	-0.1	
17	PBLK87	PP 304308 B1	11/30/89	00:48	-0.2	
18	PBLK88	PP 304309 B2	11/30/89	01:15	-0.2	
19	EPS221121MS	PP 303887BSS	11/30/89	01:42	-0.1	
20	EPS221121MSD	PP 303888RSS	11/30/89	02:09	0.1	
21	BS	PP 303889RBS	11/30/89	02:37	-0.1	
22	INDB	SD 4364	11/30/89	03:04	0.0	
23		ALUM BLK #89	11/30/89	03:31	-0.1	
24	INDA	SD 4360	11/30/89	03:58	-0.1	
25	INDB	SD 4364	11/30/89	04:26	0.1	
26	COLPASW01	PP 304560 O	11/30/89	12:21	-1.2	
27	COLPASW01MS	PP 304582 SS	11/30/89	12:48	-1.3	
28	COLPASW01MSD	PP 304583 SS	11/30/89	13:16	-1.5	
29	PBLK03	PP 304760 B1	11/30/89	13:43	-1.6	
30	EVALB	EVALB	11/30/89	14:10	-1.6	
31	BS	PP 304584 BS	11/30/89	14:37	-1.7	
32	COLPAQC02	PP 304569	11/30/89	16:26	-1.7	
33	ROLSIGW1	PP 304571	11/30/89	16:53	-1.9	
34	ROLSIQC2	PP 304572	11/30/89	17:20	-1.7	
35	PBLK04	PP 304761 B2	11/30/89	17:47	-1.5	
36	INDA	SD 4360	11/30/89	18:15	-1.1	
37	EQ-1MS	PP 304714 SS	11/30/89	18:42	-1.1	
38	EQ-1MSD	PP 304715 SS	11/30/89	19:26	-0.7	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPV Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 72 GC Column ID: OV-101
 Dates of Analyses: 11/28/89 to 12/01/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	BS	PP 304716 BS	11/30/89	19:53	-0.6	
02	EQ-1	PP 304693 O	11/30/89	20:20	-0.3	
03		PP ALU BK#94	11/30/89	20:47	-0.2	
04	EVALB	EVALB	11/30/89	21:15	-0.3	
05	PBLK15	PP 304835 B1	11/30/89	21:42	-0.3	
06	PBLK16	PP 304836 B2	11/30/89	22:09	-0.3	
07	738001-08	PP 301922 K	11/30/89	22:36	-0.3	
08	738001-05	PP 301937 R	11/30/89	23:04	-0.2	
09		PP ALUM BK99	11/30/89	23:44	-0.2	
10	INDB	SD 4364	12/01/89	00:11	-0.1	
11	INDA	SD 4360	12/01/89	00:38	-0.0	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

8D
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: OV-101
 Dates of Analyses: 12/01/89 to 12/04/89

Evaluation Check for Linearity

PESTICIDE	CALIBRATION FACTOR EVAL MIX A	CALIBRATION FACTOR EVAL MIX B	CALIBRATION FACTOR EVAL MIX C	%RSD (\leq 10.0%)
Aldrin	10500250	9772876	10102226	3.6
Endrin	3476938	3468550	3480000	0.2
4,4'-DDT	4385687	4663216	5239833	9.1
DBC	6540700	6329180	6304190	2.0

(1)

(1) If > 10.0% RSD, plot a standard curve and determine the ng for each sample in that set from the curve.

Evaluation Check for 4,4'-DDT/Endrin Breakdown
(percent breakdown expressed as total degradation)

	DATE ANALYZED	TIME ANALYZED	ENDRIN	4,4'-DDT	COMBINED (2)
INITIAL					
01 EVAL MIX B	12/01/89	13:01			14.99
02 EVAL MIX B	12/02/89	09:44			12.94
03 EVAL MIX B	12/02/89	16:05			18.90
04 EVAL MIX B	12/02/89	23:19			19.78

(2) See Form instructions.

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchloroendate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101
 Dates of Analyses: 12/01/89 to 12/04/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01	EVALA	EVALA	12/01/89	12:34	0.0	
02	EVALB	EVALB	12/01/89	13:01	-0.2	
03	EVALC	EVALC	12/01/89	13:29	0.1	
04	INDA	SD 4360	12/01/89	14:35	0.8	
05	INDB	SD 4364	12/01/89	15:03	0.9	
06	TOXAPH	SD TOXA	12/01/89	15:30	0.7	
07	AR1660	SD ARMT	12/01/89	15:57	0.9	
08	AR1221	SD 1221	12/01/89	16:24	0.9	
09	AR1232	SD 1232	12/01/89	16:52	0.9	
10	AR1242	SD 1242	12/01/89	17:19	0.7	
11	AR1248	SD 1248	12/01/89	17:46	0.4	
12	AR1254	SD 1254	12/01/89	18:13	0.5	
13	BS	PP 304584 BS	12/01/89	18:40	0.5	
14	COLPASW01MS	PP 304582 SS	12/01/89	19:08	0.5	
15	COLPASW01MSD	PP 304583 SS	12/01/89	19:35	0.5	
16	738001-05	CP 301937 R	12/01/89	21:21	0.4	
17	PBLK19	PP 305145 B1	12/02/89	09:06	0.4	
18	EVALB	EVALB	12/02/89	09:44	0.3	
19	PBLK20	PP 305146 B2	12/02/89	10:11	0.4	
20	SOIL-FB-2	PP 304989	12/02/89	10:38	0.2	
21		PP ALU.BK103	12/02/89	11:05	-0.0	
22	PBLK14	PP 304834 B2	12/02/89	12:27	-0.4	
23	PBLK13	PP 304833 B1	12/02/89	12:54	-0.5	
24	INDA	SD 4360	12/02/89	13:21	-0.5	
25	T-WHSE II	PP 304487	12/02/89	13:48	-0.6	
26		PP ALU.BK#98	12/02/89	14:15	-0.5	
27		PP TEST54 BS	12/02/89	14:43	-0.2	
28		PP TEST53 BS	12/02/89	15:10	0.0	
29		PP TEST52 BS	12/02/89	15:37	0.2	
30	EVALB	EVALB	12/02/89	16:05	0.1	
31		PP TEST51 BS	12/02/89	16:32	0.1	
32		PS TEST50 BS	12/02/89	16:59	0.1	
33		PP TEST57 B2	12/02/89	17:26	0.2	
34		PP TEST56 B1	12/02/89	17:53	0.5	
35		PP TEST55 BS	12/02/89	18:21	1.1	
36	INDB	SD 4364	12/02/89	20:11	0.1	
37		PP TEST48 B1	12/02/89	20:58	-0.0	
38		PP TEST47 B1	12/02/89	21:25	0.0	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

8E
 PESTICIDE EVALUATION STANDARDS SUMMARY
 Evaluation of Retention Time Shift for Dibutylchlorodate

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REYS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: OV-101
 Dates of Analyses: 12/01/89 to 12/04/89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	% D	*
01		PP TEST46 BS	12/02/89	21:53	-0.1	
02		PP TEST44 BS	12/02/89	22:20	0.0	
03		PP TEST43 BS	12/02/89	22:47	0.1	
04	EVALB	EVALB	12/02/89	23:19	0.1	
05		PP TEST42 BS	12/03/89	00:00	0.0	
06		PP TEST41 BS	12/03/89	00:27	-0.1	
07		PP TEST40 BS	12/03/89	00:54	-0.0	
08	INDA	SD 4360	12/04/89	11:10	-0.1	
09	INDB	SD 4364	12/04/89	11:37	-0.3	

* Values outside of QC limits (2.0% for packed columns,
 0.3% for capillary columns)

(2) Form IX PEST - Pesticide/PCB Standards Summary (all GC columns)



9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: Q1 GC Column ID: 2250/2401

DATE(S) OF ANALYSIS FROM: <u>11/15/89</u>	DATE OF ANALYSIS <u>11/16/89</u>
TO: <u>11/15/89</u>	TIME OF ANALYSIS <u>16:14</u>
TIME(S) OF ANALYSIS FROM: <u>17:14</u>	EPA SAMPLE HO. _____
TO: <u>22:00</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.56	2.51	2.61	10154576				
beta-BHC	3.34	3.27	3.41	3333975				
delta-BHC	3.83	3.76	3.91	8896600				
gamma-BHC	3.08	3.02	3.14	9753176	3.06	10402362	Y	6.7
Heptachlor	3.67	3.60	3.74	9089776	3.65	8785450	Y	3.3
Aldrin	4.32	4.24	4.41	10405076	4.30	10629850	Y	2.2
Hept. epoxide	6.02	5.90	6.14	8942800				
Endosulfan I	7.40	7.25	7.55	17824276	7.37	18525924	Y	3.9
Dieldrin	8.76	8.58	8.93	9703750	8.73	10081888	Y	3.9
4,4'-DDE	7.89	7.73	8.05	7945038				
Endrin	10.42	10.21	10.63	910181				
Endosulfan II	12.24	11.99	12.48	7541106	12.19	7722163	Y	2.4
4,4'-DDD	11.40	11.17	11.62	6308519				
Endo.sulfate	18.43	18.06	18.80	2851900				
4,4'-DDT	13.47	13.20	13.74	4460275	13.42	4304841	Y	3.5
Methoxychlor	23.07	22.61	23.53	1942970	23.01	1715020	Y	11.7
Endrin ketone	24.42	23.93	24.91	6258825				
a. Chlordane	7.03	6.89	7.17	8340650				
g. Chlordane	6.53	6.40	6.65	9010612	6.51	9468112	Y	5.1
Toxaphene	14.61	14.32	14.90	230782				
Aroclor-1016	3.53	3.46	3.60	257843				
Aroclor-1221	2.37	2.32	2.42	107630				
Aroclor-1232	3.53	3.46	3.60	98757				
Aroclor-1242	3.52	3.45	3.59	208557				
Aroclor-1248	5.93	5.81	6.05	515100				
Aroclor-1254	9.68	9.49	9.88	513542				
Aroclor-1260	19.55	19.16	19.94	1107821				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 01 GC Column ID: 2250/2401

DATE(S) OF FROM: <u>11/15/89</u>	DATE OF ANALYSIS <u>11/16/89</u>
ANALYSIS TO: <u>11/15/89</u>	TIME OF ANALYSIS <u>23:27</u>
TIME(S) OF FROM: <u>17:14</u>	EPA SAMPLE NO.
ANALYSIS TO: <u>22:00</u>	(STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.56	2.51	2.61	10154576	2.57	11421100	Y	12.5
beta-BHC	3.34	3.27	3.41	3333975	3.35	3693491	Y	10.8
delta-BHC	3.83	3.76	3.91	8896600	3.84	9966438	Y	12.0
gamma-BHC	3.08	3.02	3.14	9753176				
Heptachlor	3.67	3.60	3.74	9089776				
Aldrin	4.32	4.24	4.41	10405076				
Hept. epoxide	6.02	5.90	6.14	8942800	6.03	9603150	Y	8.3
Endosulfan I	7.40	7.25	7.55	17824276				
Dieldrin	8.76	8.58	8.93	9703750				
4,4'-DDE	7.89	7.73	8.05	7945038	7.91	8495900	Y	6.9
Endrin	10.42	10.21	10.63	910181	10.45	930287	Y	2.2
Endosulfan II	12.24	11.99	12.48	7541106				
4,4'-DDD	11.40	11.17	11.62	6308519	11.43	6668305	Y	5.7
Endo.sulfate	18.43	18.06	18.80	2851800	18.48	2864162	Y	0.4
4,4'-DDT	13.47	13.20	13.74	4460275				
Methoxychlor	23.07	22.61	23.53	1942970				
Endrin ketone	24.42	23.93	24.91	6258825	24.50	6582245	Y	5.2
a. Chlordane	7.03	6.89	7.17	8340650	7.05	8978668	Y	7.6
g. Chlordane	6.53	6.40	6.66	9010612				
Toxaphene	14.61	14.32	14.90	230782				
Aroclor-1016	3.53	3.46	3.60	257843				
Aroclor-1221	2.37	2.32	2.42	107630				
Aroclor-1232	3.53	3.46	3.60	98757				
Aroclor-1242	3.52	3.45	3.59	208557				
Aroclor-1248	5.93	5.81	6.05	515100				
Aroclor-1254	9.68	9.49	9.88	513542				
Aroclor-1260	19.55	19.16	19.94	1107821				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCBEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: Q1 GC Column ID: 2250/2401

DATE(S) OF ANALYSIS FROM: <u>11/15/89</u>	DATE OF ANALYSIS <u>11/17/89</u>
TO: <u>11/15/89</u>	TIME OF ANALYSIS <u>22:47</u>
TINE(S) OF ANALYSIS FROM: <u>17:14</u>	EPA SAMPLE NO.
TO: <u>22:00</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.56	2.51	2.61	10154576				
beta-BHC	3.34	3.27	3.41	3333975				
delta-BHC	3.83	3.76	3.91	8896600				
gamma-BHC	3.08	3.02	3.14	9753176	3.08	10454338	Y	7.2
Heptachlor	3.67	3.60	3.74	9089776	3.67	9404650	Y	3.5
Aldrin	4.32	4.24	4.41	10405076	4.32	10654912	Y	2.4
Hept. epoxide	6.02	5.90	6.14	8942800				
Endosulfan I	7.40	7.25	7.55	17824276	7.39	18565300	Y	4.2
Dieldrin	8.76	8.58	8.93	9703750	8.75	10048200	Y	3.5
4,4'-DDE	7.89	7.73	8.05	7945038				
Endrin	10.42	10.21	10.63	910181				
Endosulfan II	12.24	11.99	12.48	7541106	12.22	7405163	Y	1.8
4,4'-DDD	11.40	11.17	11.62	6308519				
Endo.sulfate	18.43	18.06	18.80	2851800				
4,4'-DDT	13.47	13.20	13.74	4460275	13.45	4714816	Y	5.7
Methoxychlor	23.07	22.61	23.53	1942970	23.04	1906540	Y	1.9
Endrin ketone	24.42	23.93	24.91	6258825				
a. Chlordane	7.03	6.89	7.17	8340650				
g. Chlordane	6.53	6.40	6.66	9010612	6.52	9524350	Y	5.7
Toxaphene	14.61	14.32	14.90	230782				
Aroclor-1016	3.53	3.46	3.60	257843				
Aroclor-1221	2.37	2.32	2.42	107630				
Aroclor-1232	3.53	3.46	3.60	98757				
Aroclor-1242	3.52	3.45	3.59	208557				
Aroclor-1248	5.93	5.81	6.05	515100				
Aroclor-1254	9.68	9.49	9.88	513542				
Aroclor-1260	19.55	19.16	19.94	1107821				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCREM LABORATORIES Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5

Instrument ID: 01 GC Column ID: 2250/2401

DATE(S) OF FROM: <u>11/15/89</u>	DATE OF ANALYSIS <u>11/18/89</u>
ANALYSIS TO: <u>11/15/89</u>	TIME OF ANALYSIS <u>14:10</u>
TIME(S) OF FROM: <u>17:14</u>	EPA SAMPLE NO.
ANALYSIS TO: <u>22:00</u>	(STANDARD) INDB

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.56	2.51	2.61	10154576	2.56	11452062	Y	12.8
beta-BHC	3.34	3.27	3.41	3333975	3.33	3686957	Y	10.6
delta-BHC	3.83	3.76	3.91	8896600	3.83	10077638	Y	13.3
gamma-BHC	3.08	3.02	3.14	9753176				
Heptachlor	3.67	3.60	3.74	9089776				
Aldrin	4.32	4.24	4.41	10405076				
Hept. epoxide	6.02	5.90	6.14	8942800	6.01	9754550	Y	9.1
Endosulfan I	7.40	7.25	7.55	17824276				
Dieldrin	8.76	8.58	8.93	9703750				
4,4'-DDE	7.89	7.73	8.05	7945038	7.88	8377881	Y	5.4
Endrin	10.42	10.21	10.63	910181	10.41	840450	Y	7.7
Endosulfan II	12.24	11.99	12.48	7541106				
4,4'-DDD	11.40	11.17	11.62	6308519	11.39	6685213	Y	6.0
Endo. sulfate	18.43	18.06	18.80	2851800	18.40	2549331	Y	10.6
4,4'-DDT	13.47	13.20	13.74	4460275				
Methoxychlor	23.07	22.61	23.53	1942970				
Endrin ketone	24.42	23.93	24.91	6258825	24.40	6735735	Y	7.6
a. Chlordane	7.03	6.89	7.17	8340650	7.02	9006482	Y	8.0
g. Chlordane	6.53	6.40	6.66	9010612				
Toxaphene	14.61	14.32	14.90	230782				
Aroclor-1016	3.53	3.46	3.60	257843				
Aroclor-1221	2.37	2.32	2.42	107630				
Aroclor-1232	3.53	3.46	3.60	98757				
Aroclor-1242	3.52	3.45	3.59	208557				
Aroclor-1248	5.93	5.81	6.05	515100				
Aroclor-1254	9.68	9.49	9.88	513542				
Aroclor-1260	19.55	19.16	19.94	1107821				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 01 GC Column ID: 2250/2401

DATE(S) OF ANALYSIS FROM: <u>11/15/89</u>	DATE OF ANALYSIS <u>11/18/89</u>
TO: <u>11/15/89</u>	TIME OF ANALYSIS <u>14:38</u>
TIME(S) OF ANALYSIS FROM: <u>17:14</u>	EPA SAMPLE NO.
TO: <u>22:00</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.56	2.51	2.61	10154576				
beta-BHC	3.34	3.27	3.41	3333975				
delta-BHC	3.83	3.76	3.91	8896600				
gamma-BHC	3.08	3.02	3.14	9753176	3.07	10734962	Y	10.1
Heptachlor	3.67	3.60	3.74	9089776	3.66	9824862	Y	8.1
Aldrin	4.32	4.24	4.41	10405076	4.32	10882650	Y	4.6
Hept. epoxide	5.02	5.90	6.14	8942800				
Endosulfan I	7.40	7.25	7.55	17824276	7.39	18941952	Y	6.3
Dieldrin	8.76	8.58	8.93	9703750	8.76	10268988	Y	5.8
4,4'-DDE	7.89	7.73	8.05	7945038				
Endrin	10.42	10.21	10.63	910181				
Endosulfan II	12.24	11.99	12.48	7541106	12.24	8017019	Y	6.3
4,4'-DDD	11.40	11.17	11.62	6308519				
Endo.sulfate	18.43	18.06	18.80	2851800				
4,4'-DDT	13.47	13.20	13.74	4460275	13.48	5092137	Y	14.2
Methoxychlor	23.07	22.61	23.53	1942970	23.09	1967870	Y	1.3
Endrin ketone	24.42	23.93	24.91	6258825				
a. Chlordane	7.03	6.89	7.17	8340650				
g. Chlordane	6.53	6.40	6.66	9010612	6.53	9584600	Y	6.4
Toxaphene	14.61	14.32	14.90	230782				
Aroclor-1016	3.53	3.46	3.60	257843				
Aroclor-1221	2.37	2.32	2.42	107630				
Aroclor-1232	3.53	3.46	3.60	98757				
Aroclor-1242	3.52	3.45	3.59	208557				
Aroclor-1248	5.93	5.81	6.05	515100				
Aroclor-1254	9.68	9.49	9.88	513542				
Aroclor-1260	19.55	19.16	19.94	1107821				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-881-8EVS)
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 03 GC Column ID: QV-101

DATE(S) OF FROM: <u>11/14/89</u>	DATE OF ANALYSIS <u>11/14/89</u>
ANALYSIS TO: <u>11/14/89</u>	TIME OF ANALYSIS <u>14:11</u>
TIME(S) OF FROM: <u>01:44</u>	EPA SAMPLE NO.
ANALYSIS TO: <u>05:30</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.04	2.00	2.09	5967400				
beta-BHC	2.18	2.14	2.22	2479600				
delta-BHC	2.45	2.40	2.49	5747900				
gamma-BHC	2.36	2.31	2.41	5783406	2.39	5463581	Y	5.5
Heptachlor	3.67	3.60	3.75	5393725	3.72	4942475	Y	8.4
Aldrin	4.49	4.40	4.58	6047694	4.56	5589963	Y	7.6
Hept. epoxide	5.43	5.32	5.54	5698938				
Endosulfan I	6.66	6.53	6.80	10369812	6.76	9588718	Y	7.5
Dieldrin	7.72	7.56	7.87	5484381	7.82	5169213	Y	5.7
4,4'-DDE	7.62	7.47	7.77	5313131				
Endrin	8.62	8.45	8.79	3241169				
Endosulfan II	8.75	8.57	8.92	4965463	8.86	4570600	Y	8.0
4,4'-DDD	9.58	9.39	9.77	7800600				
Endo. sulfate	11.17	10.94	11.39	2849425				
4,4'-DDT	12.25	12.00	12.49	3751008	12.39	3476508	Y	7.3
Methoxychlor	17.72	17.37	18.08	1430270	17.91	1444090	Y	1.0
Endrin ketone	14.22	13.93	14.50	4807355				
a. Chlordane	6.80	6.66	6.94	5644934				
g. Chlordane	6.15	6.02	6.27	4856950	6.23	4580688	Y	5.7
Toxaphene	12.36	12.11	12.60	194001				
Aroclor-1016	3.24	3.18	3.30	189369				
Aroclor-1221	2.05	2.01	2.09	59634				
Aroclor-1232	3.24	3.17	3.30	71880				
Aroclor-1242	3.24	3.18	3.31	147752				
Aroclor-1248	5.56	5.45	5.67	441365				
Aroclor-1254	9.35	9.16	9.53	426339				
Aroclor-1260	19.85	19.45	20.24	977240				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: Q3 GC Column ID: QV-101

DATE(S) OF ANALYSIS FROM: <u>11/14/89</u>	DATE OF ANALYSIS <u>11/14/89</u>
TIME(S) OF ANALYSIS FROM: <u>01:44</u>	TIME OF ANALYSIS <u>19:58</u>
TO: <u>05:30</u>	EPA SAMPLE NO. _____
	(STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.04	2.00	2.09	5967400	2.05	5901200	Y	1.1
beta-BHC	2.18	2.14	2.22	2479600	2.18	2437650	Y	1.7
delta-BHC	2.45	2.40	2.49	5747900	2.44	5669300	Y	1.4
gamma-BHC	2.36	2.31	2.41	5783406				
Heptachlor	3.67	3.60	3.75	5393725				
Aldrin	4.49	4.40	4.58	6047694				
Hept. epoxide	5.43	5.32	5.54	5698938	5.45	5602138	Y	1.7
Endosulfan I	6.56	6.53	6.80	10369812				
Dieldrin	7.72	7.56	7.87	5484381				
4,4'-DDE	7.62	7.47	7.77	5313131	7.64	5171319	Y	2.7
Endrin	8.62	8.45	8.79	3241169	8.65	3346357	Y	3.2
Endosulfan II	8.75	8.57	8.92	4965463				
4,4'-DDD	9.58	9.39	9.77	7800600	9.60	7652794	Y	1.9
Endo.sulfate	11.17	10.94	11.39	2849425	11.20	2946200	Y	3.4
4,4'-DDT	12.25	12.00	12.49	3751008				
Methoxychlor	17.72	17.37	18.08	1430270				
Endrin ketone	14.22	13.93	14.50	4807355	14.28	4766630	Y	0.8
a. Chlordane	6.80	6.66	6.94	5644934	6.82	5501988	Y	2.5
g. Chlordane	6.15	6.02	6.27	4856950				
Toxaphene	12.36	12.11	12.60	194001				
Aroclor-1016	3.24	3.18	3.30	189369				
Aroclor-1221	2.05	2.01	2.09	59634				
Aroclor-1232	3.24	3.17	3.30	71880				
Aroclor-1242	3.24	3.18	3.31	147752				
Aroclor-1248	5.56	5.45	5.67	441365				
Aroclor-1254	9.35	9.16	9.53	426339				
Aroclor-1260	19.85	19.45	20.24	977240				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5

Instrument ID: 03 GC Column ID: OV-101

DATE(S) OF FROM: <u>11/14/89</u>	DATE OF ANALYSIS <u>11/15/89</u>
ANALYSIS TO: <u>11/14/89</u>	TIME OF ANALYSIS <u>09:02</u>
TIME(S) OF FROM: <u>01:44</u>	EPA SAMPLE NO.
ANALYSIS TO: <u>05:30</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.04	2.00	2.09	5967400				
beta-BHC	2.18	2.14	2.22	2479600				
delta-BHC	2.45	2.40	2.49	5747900				
gamma-BHC	2.36	2.31	2.41	5783406	2.38	6221150	Y	7.6
Heptachlor	3.67	3.60	3.75	5393725	3.72	5170013	Y	4.1
Aldrin	4.49	4.40	4.58	6047694	4.55	6422325	Y	6.2
Hept. epoxide	5.43	5.32	5.54	5698938				
Endosulfan I	6.66	6.53	6.80	10369812	6.74	11008712	Y	6.2
Dieldrin	7.72	7.56	7.87	5484381	7.80	5825156	Y	6.2
4,4'-DDE	7.62	7.47	7.77	5313131				
Endrin	8.62	8.45	8.79	3241169				
Endosulfan II	8.75	8.57	8.92	4965463	8.85	5142072	Y	3.6
4,4'-DDD	9.58	9.39	9.77	7800600				
Endo. sulfate	11.17	10.94	11.39	2849425				
4,4'-DDT	12.25	12.00	12.49	3751008	12.37	3526716	Y	6.0
Methoxychlor	17.72	17.37	18.08	1430270	17.90	1498415	Y	4.8
Endrin ketone	14.22	13.93	14.50	4807355				
a. Chlordane	6.80	6.66	6.94	5644934				
g. Chlordane	6.15	6.02	6.27	4856950	6.22	5284763	Y	8.8
Toxaphene	12.36	12.11	12.60	194001				
Aroclor-1016	3.24	3.18	3.30	189369				
Aroclor-1221	2.05	2.01	2.09	59634				
Aroclor-1232	3.24	3.17	3.30	71880				
Aroclor-1242	3.24	3.18	3.31	147752				
Aroclor-1248	5.56	5.45	5.67	441365				
Aroclor-1254	9.35	9.16	9.53	426339				
Aroclor-1260	19.85	19.45	20.24	977240				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
%D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 03 GC Column ID: QV-101

DATE(S) OF ANALYSIS FROM: <u>11/14/89</u>	DATE OF ANALYSIS <u>11/16/89</u>
TO: <u>11/14/89</u>	TIME OF ANALYSIS <u>01:36</u>
TIME(S) OF ANALYSIS FROM: <u>01:44</u>	EPA SAMPLE NO.
TO: <u>05:30</u>	(STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.04	2.00	2.09	5967400	2.06	6744000	Y	13.0
beta-BHC	2.18	2.14	2.22	2479600	2.20	2632550	Y	6.2
delta-BHC	2.45	2.40	2.49	5747900	2.46	6159500	Y	7.2
gamma-BHC	2.36	2.31	2.41	5783406				
Heptachlor	3.67	3.60	3.75	5393725				
Aldrin	4.49	4.40	4.58	6047694				
Hept. epoxide	5.43	5.32	5.54	5698938	5.45	6224838	Y	9.2
Endosulfan I	6.66	6.53	6.80	10369812				
Dieldrin	7.72	7.56	7.87	5484381				
4,4'-DDE	7.62	7.47	7.77	5313131	7.61	5717006	Y	7.6
Endrin	8.62	8.45	8.79	3241169	8.63	3410353	Y	5.2
Endosulfan II	8.75	8.57	8.92	4965463				
4,4'-DDD	9.58	9.39	9.77	7800600	9.56	8548082	Y	9.6
Endo.sulfate	11.17	10.94	11.39	2849425	11.15	3234888	Y	13.5
4,4'-DDT	12.25	12.00	12.49	3751008				
Methoxychlor	17.72	17.37	18.08	1430270				
Endrin ketone	14.22	13.93	14.50	4807355	14.20	5247220	Y	9.1
a. Chlordane	6.80	6.66	6.94	5644934	6.81	6150850	Y	9.0
g. Chlordane	6.15	6.02	6.27	4856950				
Toxaphene	12.36	12.11	12.60	194001				
Aroclor-1016	3.24	3.18	3.30	189369				
Aroclor-1221	2.05	2.01	2.09	59634				
Aroclor-1232	3.24	3.17	3.30	71880				
Aroclor-1242	3.24	3.18	3.31	147752				
Aroclor-1248	5.56	5.45	5.67	441365				
Aroclor-1254	9.35	9.16	9.53	426339				
Aroclor-1260	19.85	19.45	20.24	977240				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REYS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 03 GC Column ID: OV-101

DATE(S) OF ANALYSIS FROM: <u>11/14/89</u>	DATE OF ANALYSIS <u>11/16/89</u>
TO: <u>11/14/89</u>	TIME OF ANALYSIS <u>13:06</u>
TIME(S) OF ANALYSIS FROM: <u>01:44</u>	EPA SAMPLE NO. _____
TO: <u>05:30</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.04	2.00	2.09	5967400				
beta-BHC	2.18	2.14	2.22	2479500				
delta-BHC	2.45	2.40	2.49	5747900				
gamma-BHC	2.36	2.31	2.41	5783406	2.36	6617613	Y	14.4
Heptachlor	3.67	3.60	3.75	5393725	3.67	5687613	Y	5.4
Aldrin	4.49	4.40	4.58	6047694	4.49	6873019	Y	13.6
Hept. epoxide	5.43	5.32	5.54	5698938				
Endosulfan I	6.66	6.53	6.80	10369812	6.64	11779262	Y	13.6
Dieldrin	7.72	7.56	7.87	5484381	7.68	6116891	Y	11.5
4,4'-DDE	7.62	7.47	7.77	5313131				
Endrin	8.62	8.45	8.79	3241169				
Endosulfan II	8.75	8.57	8.92	4965463	8.70	5471728	Y	10.2
4,4'-DDD	9.58	9.39	9.77	7800600				
Endo.sulfate	11.17	10.94	11.39	2849425				
4,4'-DDT	12.25	12.00	12.49	3751008	12.15	3770354	Y	0.5
Methoxychlor	17.72	17.37	18.08	1430270	17.52	1493635	Y	4.4
Endrin ketone	14.22	13.93	14.50	4807355				
a. Chlordane	6.80	6.66	6.94	5644934				
g. Chlordane	6.15	6.02	6.27	4856950	6.13	5560931	Y	14.5
Toxaphene	12.36	12.11	12.60	194001				
Aroclor-1016	3.24	3.18	3.30	189369				
Aroclor-1221	2.05	2.01	2.09	59634				
Aroclor-1232	3.24	3.17	3.30	71880				
Aroclor-1242	3.24	3.18	3.31	147752				
Aroclor-1248	5.56	5.45	5.67	441365				
Aroclor-1254	9.35	9.16	9.53	426339				
Aroclor-1260	19.85	19.45	20.24	977240				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REYS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 03 GC Column ID: QV-101

DATE(S) OF ANALYSIS	FROM: <u>11/14/89</u>	DATE OF ANALYSIS	<u>11/16/89</u>
	TO: <u>11/14/89</u>	TIME OF ANALYSIS	<u>21:19</u>
TIME(S) OF ANALYSIS	FROM: <u>01:44</u>	EPA SAMPLE NO.	
	TO: <u>05:30</u>	(STANDARD)	<u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.04	2.00	2.09	5967400	2.06	5965300	Y	0.0
beta-BHC	2.18	2.14	2.22	2479600	2.19	2481700	Y	0.1
delta-BHC	2.45	2.40	2.49	5747900	2.45	5678600	Y	1.2
gamma-BHC	2.36	2.31	2.41	5783406				
Heptachlor	3.67	3.60	3.75	5393725				
Aldrin	4.49	4.40	4.58	6047694				
Hept. epoxide	5.43	5.32	5.54	5698938	5.43	5520850	Y	3.1
Endosulfan I	6.66	6.53	6.80	10369812				
Dieldrin	7.72	7.56	7.87	5484381				
4,4'-DDE	7.62	7.47	7.77	5313131	7.58	5060806	Y	4.7
Endrin	8.62	8.45	8.79	3241169	8.60	3147216	Y	2.9
Endosulfan II	8.75	8.57	8.92	4965463				
4,4'-DDD	9.58	9.39	9.77	7800600	9.52	7596594	Y	2.6
Endo. sulfate	11.17	10.94	11.39	2849425	11.11	3025719	Y	6.2
4,4'-DDT	12.25	12.00	12.49	3751008				
Methoxychlor	17.72	17.37	18.08	1430270				
Endrin ketone	14.22	13.93	14.50	4807355	14.15	4785080	Y	0.5
a. Chlordane	6.80	6.66	6.94	5644934	6.79	5470544	Y	3.1
g. Chlordane	6.15	6.02	6.27	4856950				
Toxaphene	12.36	12.11	12.60	194001				
Aroclor-1016	3.24	3.18	3.30	189369				
Aroclor-1221	2.05	2.01	2.09	59634				
Aroclor-1232	3.24	3.17	3.30	71880				
Aroclor-1242	3.24	3.18	3.31	147752				
Aroclor-1248	5.56	5.45	5.67	441365				
Aroclor-1254	9.35	9.16	9.53	426339				
Aroclor-1260	19.85	19.45	20.24	977240				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: Q3 GC Column ID: QV-101

DATE(S) OF FROM: <u>11/14/89</u>	DATE OF ANALYSIS <u>11/16/89</u>
ANALYSIS TO: <u>11/14/89</u>	TIME OF ANALYSIS <u>22:23</u>
TIME(S) OF FROM: <u>01:44</u>	EPA SAMPLE NO.
ANALYSIS TO: <u>05:30</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.04	2.00	2.09	5967400				
beta-BHC	2.18	2.14	2.22	2479600				
delta-BHC	2.45	2.40	2.49	5747900				
gamma-BHC	2.36	2.31	2.41	5783406	2.38	6337975	Y	9.6
Heptachlor	3.67	3.60	3.75	5393725	3.70	4404388	N	18.3
Aldrin	4.49	4.40	4.58	6047694	4.52	6474050	Y	7.0
Hept. epoxide	5.43	5.32	5.54	5698938				
Endosulfan I	6.66	6.53	6.80	10369812	6.68	11123950	Y	7.3
Dieldrin	7.72	7.56	7.87	5484381	7.73	5766550	Y	5.1
4,4'-DDE	7.62	7.47	7.77	5313131				
Endrin	8.62	8.45	8.79	3241169				
Endosulfan II	8.75	8.57	8.92	4965463	8.75	5216363	Y	5.1
4,4'-DDD	9.58	9.39	9.77	7800600				
Endo.sulfate	11.17	10.94	11.39	2849425				
4,4'-DDT	12.25	12.00	12.49	3751008	12.21	3133796	N	16.5
Methoxychlor	17.72	17.37	18.08	1430270	17.61	1234630	Y	13.7
Endrin ketone	14.22	13.93	14.50	4807355				
a. Chlordane	6.80	6.66	6.94	5644934				
g. Chlordane	6.15	6.02	6.27	4856950	6.16	5303388	Y	9.2
Toxaphene	12.36	12.11	12.60	194001				
Aroclor-1016	3.24	3.18	3.30	189369				
Aroclor-1221	2.05	2.01	2.09	59634				
Aroclor-1232	3.24	3.17	3.30	71880				
Aroclor-1242	3.24	3.18	3.31	147752				
Aroclor-1248	5.56	5.45	5.67	441365				
Aroclor-1254	9.35	9.16	9.53	426339				
Aroclor-1260	19.85	19.45	20.24	977240				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 07 GC Column ID: 2250/2401

DATE(S) OF FROM: <u>11/15/89</u>	DATE OF ANALYSIS <u>11/16/89</u>
ANALYSIS TO: <u>11/15/89</u>	TIME OF ANALYSIS <u>04:08</u>
TIME(S) OF FROM: <u>19:39</u>	EPA SAMPLE NO.
ANALYSIS TO: <u>23:25</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.40	2.35	2.45	24946736				
beta-BHC	3.15	3.08	3.21	7967497				
delta-BHC	3.63	3.56	3.71	21915076				
gamma-BHC	2.89	2.83	2.94	23495932	2.89	23092724	Y	1.7
Heptachlor	3.47	3.40	3.53	23090276	3.47	22292976	Y	3.5
Aldrin	4.11	4.02	4.19	23564164	4.11	22927924	Y	2.7
Hept. epoxide	5.66	5.55	5.78	21736388				
Endosulfan I	6.96	6.82	7.10	39762624	6.95	39155504	Y	1.5
Dieldrin	8.27	8.10	8.43	22287824	8.26	22052276	Y	1.1
4,4'-DDE	7.62	7.46	7.77	18608220				
Endrin	9.88	9.69	10.08	12621276				
Endosulfan II	11.55	11.32	11.78	18643844	11.55	18658900	Y	0.1
4,4'-DDD	10.96	10.74	11.17	14514806				
Endo.sulfate	16.83	16.49	17.17	10455144				
4,4'-DDT	13.01	12.75	13.27	12342900	13.02	11735458	Y	4.9
Methoxychlor	22.67	22.21	23.12	5771750	22.65	5794710	Y	0.4
Endrin ketone	23.00	22.54	23.46	16204296				
a. Chlordane	6.71	6.58	6.85	19736608				
g. Chlordane	6.22	6.09	6.34	20871636	6.21	20444476	Y	2.0
Toxaphene	13.91	13.64	14.19	516679				
Aroclor-1016	3.37	3.30	3.44	519187				
Aroclor-1221	2.26	2.21	2.30	215055				
Aroclor-1232	3.39	3.32	3.45	190416				
Aroclor-1242	3.39	3.32	3.45	403005				
Aroclor-1248	5.71	5.60	5.83	1010435				
Aroclor-1254	9.40	9.21	9.59	938028				
Aroclor-1260	19.19	18.80	19.57	1678735				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 07 GC Column ID: 2250/2401

DATE(S) OF ANALYSIS FROM: <u>11/15/89</u>	DATE OF ANALYSIS <u>11/17/89</u>
TO: <u>11/15/89</u>	TIME OF ANALYSIS <u>00:39</u>
TIME(S) OF ANALYSIS FROM: <u>19:39</u>	EPA SAMPLE NO.
TO: <u>23:25</u>	(STANDARD) <u>INDB</u>

COMPOUNO	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.40	2.35	2.45	24946736	2.40	26780940	Y	7.4
beta-BHC	3.15	3.08	3.21	7967497	3.16	8703472	Y	9.2
delta-BHC	3.63	3.56	3.71	21915076	3.65	24030300	Y	9.7
gamma-BHC	2.89	2.83	2.94	23495932				
Heptachlor	3.47	3.40	3.53	23090276				
Aldrin	4.11	4.02	4.19	23564164				
Hept. epoxide	5.66	5.55	5.78	21736388	5.69	24056052	Y	10.7
Endosulfan I	6.96	6.82	7.10	39762624				
Dieldrin	8.27	8.10	8.43	22287824				
4,4'-DDE	7.62	7.46	7.77	18608220	7.65	19943620	Y	7.2
Endrin	9.88	9.69	10.08	12621276	9.94	13530356	Y	7.2
Endosulfan II	11.55	11.32	11.78	18643844				
4,4'-DDD	10.96	10.74	11.17	14514806	11.02	15665150	Y	7.9
Endo.sulfate	16.83	16.49	17.17	10455144	16.94	11458294	Y	9.6
4,4'-DDT	13.01	12.75	13.27	12342900				
Methoxychlor	22.67	22.21	23.12	5771750				
Endrin ketone	23.00	22.54	23.46	16204296	23.16	16849392	Y	4.0
a. Chlordane	6.71	6.58	6.85	19736608	6.74	20687796	Y	4.8
g. Chlordane	6.22	6.09	6.34	20871636				
Toxaphene	13.91	13.64	14.19	516679				
Aroclor-1016	3.37	3.30	3.44	519187				
Aroclor-1221	2.26	2.21	2.30	215055				
Aroclor-1232	3.39	3.32	3.45	190416				
Aroclor-1242	3.39	3.32	3.45	403005				
Aroclor-1248	5.71	5.60	5.83	1010435				
Aroclor-1254	9.40	9.21	9.59	938028				
Aroclor-1260	19.19	18.80	19.57	1678735				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 07 GC Column ID: 2250/2401

DATE(S) OF ANALYSIS FROM: <u>11/15/89</u>	DATE OF ANALYSIS <u>11/17/89</u>
TO: <u>11/15/89</u>	TIME OF ANALYSIS <u>06:19</u>
TIME(S) OF ANALYSIS FROM: <u>19:39</u>	EPA SAMPLE NO. _____
TO: <u>23:25</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.40	2.35	2.45	24946736				
beta-BHC	3.15	3.08	3.21	7967497				
delta-BHC	3.63	3.56	3.71	21915076				
gamma-BHC	2.89	2.83	2.94	23495932	2.92	24116300	Y	2.6
Heptachlor	3.47	3.40	3.53	23090276	3.50	23868912	Y	3.4
Aldrin	4.11	4.02	4.19	23564164	4.15	24088152	Y	2.2
Hept. epoxide	5.66	5.55	5.78	21736388				
Endosulfan I	6.96	6.82	7.10	39762624	7.03	40486312	Y	1.8
Dieldrin	8.27	8.10	8.43	22287824	8.35	22815324	Y	2.4
4,4'-DDE	7.62	7.46	7.77	18608220				
Endrin	9.88	9.69	10.08	12621276				
Endosulfan II	11.55	11.32	11.78	18643844	11.67	19110308	Y	2.5
4,4'-DDD	10.96	10.74	11.17	14514806				
Endo. sulfate	16.83	16.49	17.17	10455144				
4,4'-DDT	13.01	12.75	13.27	12342900	13.15	12174066	Y	1.4
Methoxychlor	22.67	22.21	23.12	5771750	22.89	6138400	Y	6.4
Endrin ketone	23.00	22.54	23.46	16204296				
a. Chlordane	6.71	6.58	6.85	19736608				
g. Chlordane	6.22	6.09	6.34	20871636	6.28	21289124	Y	2.0
Toxaphene	13.91	13.64	14.19	516679				
Aroclor-1016	3.37	3.30	3.44	519187				
Aroclor-1221	2.26	2.21	2.30	215055				
Aroclor-1232	3.39	3.32	3.45	190416				
Aroclor-1242	3.39	3.32	3.45	403005				
Aroclor-1248	5.71	5.60	5.83	1010435				
Aroclor-1254	9.40	9.21	9.59	938028				
Aroclor-1260	19.19	18.80	19.57	1678735				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 07 GC Column ID: 2250/2401

DATE(S) OF ANALYSIS	FROM: <u>11/15/89</u>	DATE OF ANALYSIS	<u>11/17/89</u>
	TO: <u>11/15/89</u>	TIME OF ANALYSIS	<u>14:05</u>
TIME(S) OF ANALYSIS	FROM: <u>19:39</u>	EPA SAMPLE NO.	
	TO: <u>23:25</u>	(STANDARD)	<u>INDE</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.40	2.35	2.45	24946736	2.40	26291812	Y	5.4
beta-BHC	3.15	3.00	3.21	7967497	3.15	8498738	Y	6.7
delta-BHC	3.63	3.56	3.71	21915076	3.63	24279712	Y	10.8
gamma-BHC	2.89	2.83	2.94	23495932				
Heptachlor	3.47	3.40	3.53	23090276				
Aldrin	4.11	4.02	4.19	23564164				
Hept. epoxide	5.66	5.55	5.78	21736388	5.66	22796552	Y	4.9
Endosulfan I	6.96	6.82	7.10	39762624				
Dieldrin	8.27	8.10	8.43	22287824				
4,4'-DDE	7.62	7.46	7.77	18608220	7.61	19469732	Y	4.6
Endrin	9.88	9.69	10.08	12621276	9.88	13348906	Y	5.8
Endosulfan II	11.55	11.32	11.78	18643844				
4,4'-DDD	10.96	10.74	11.17	14514806	10.96	15042326	Y	3.6
Endo. sulfate	16.83	16.49	17.17	10455144	16.83	11054368	Y	5.7
4,4'-DDT	13.01	12.75	13.27	12342900				
Methoxychlor	22.67	22.21	23.12	5771750				
Endrin ketone	23.00	22.54	23.46	16204296	23.01	16763520	Y	3.5
a. Chlordane	6.71	6.58	6.85	19736608	6.71	20514132	Y	3.9
g. Chlordane	6.22	6.09	6.34	20871636				
Toxaphene	13.91	13.64	14.19	516679				
Aroclor-1016	3.37	3.30	3.44	519187				
Aroclor-1221	2.26	2.21	2.30	215055				
Aroclor-1232	3.39	3.32	3.45	190416				
Aroclor-1242	3.39	3.32	3.45	403005				
Aroclor-1248	5.71	5.60	5.83	1010435				
Aroclor-1254	9.40	9.21	9.59	938028				
Aroclor-1260	19.19	18.80	19.57	1678735				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 07 GC Column ID: 2250/2401

DATE(S) OF FROM: <u>11/15/89</u>	DATE OF ANALYSIS <u>11/18/89</u>
ANALYSIS TO: <u>11/15/89</u>	TIME OF ANALYSIS <u>13:04</u>
TIME(S) OF FROM: <u>19:39</u>	EPA SAMPLE NO.
ANALYSIS TO: <u>23:25</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.40	2.35	2.45	24946736				
beta-BHC	3.15	3.08	3.21	7967497				
delta-BHC	3.63	3.56	3.71	21915076				
gamma-BHC	2.89	2.83	2.94	23495932	2.90	26488856	Y	12.7
Heptachlor	3.47	3.40	3.53	23090276	3.49	26165820	Y	13.3
Aldrin	4.11	4.02	4.19	23564164	4.13	26469476	Y	12.3
Hept. epoxide	5.66	5.55	5.78	21736388				
Endosulfan I	6.96	6.82	7.10	39762624	6.99	43904224	Y	10.4
Dieldrin	8.27	8.10	8.43	22287824	8.31	24638788	Y	10.5
4,4'-DDE	7.62	7.46	7.77	18608220				
Endrin	9.88	9.69	10.08	12621276				
Endosulfan II	11.55	11.32	11.78	18643844	11.61	20494164	Y	9.9
4,4'-DDD	10.96	10.74	11.17	14514806				
Endo.sulfate	16.83	16.49	17.17	10455144				
4,4'-DDT	13.01	12.75	13.27	12342900	13.09	13013650	Y	5.4
Methoxychlor	22.67	22.21	23.12	5771750	22.78	6410690	Y	11.1
Endrin ketone	23.00	22.54	23.46	16204296				
a. Chlordane	6.71	6.58	6.85	19736608				
g. Chlordane	6.22	6.09	6.34	20871636	6.25	23349136	Y	11.9
Toxaphene	13.91	13.64	14.19	516679				
Aroclor-1016	3.37	3.30	3.44	519187				
Aroclor-1221	2.26	2.21	2.30	215055				
Aroclor-1232	3.39	3.32	3.45	190416				
Aroclor-1242	3.39	3.32	3.45	403005				
Aroclor-1248	5.71	5.60	5.83	1010435				
Aroclor-1254	9.40	9.21	9.59	938028				
Aroclor-1260	19.19	18.80	19.57	1678735				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCEM LABORATORIES Contract: (2-88)-REYS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 07 GC Column ID: 2250/2401

DATE(S) OF ANALYSIS FROM: <u>11/15/89</u> TO: <u>11/15/89</u>	DATE OF ANALYSIS <u>11/18/89</u>
TIME(S) OF ANALYSIS FROM: <u>19:39</u> TO: <u>23:25</u>	TIME OF ANALYSIS <u>13:32</u>
	EPA SAMPLE NO. (STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.40	2.35	2.45	24946736	2.41	27188536	Y	9.0
beta-BHC	3.15	3.08	3.21	7967497	3.16	8787088	Y	10.3
delta-BHC	3.63	3.56	3.71	21915076	3.65	24851000	Y	13.4
gamma-BHC	2.89	2.83	2.94	23495932				
Heptachlor	3.47	3.40	3.53	23090276				
Aldrin	4.11	4.02	4.19	23564164				
Hept. epoxide	5.66	5.55	5.78	21736388	5.69	23688336	Y	9.0
Endosulfan I	6.96	6.82	7.10	39762624				
Dieldrin	8.27	8.10	8.43	22287824				
4,4'-DDE	7.62	7.46	7.77	18608220	7.65	19562752	Y	5.1
Endrin	9.88	9.69	10.08	12621276	9.93	13380262	Y	6.0
Endosulfan II	11.55	11.32	11.78	18643844				
4,4'-DDD	10.96	10.74	11.17	14514806	11.01	15517118	Y	6.9
Endo.sulfate	16.83	16.49	17.17	10455144	16.90	11525976	Y	10.2
4,4'-DDT	13.01	12.75	13.27	12342900				
Methoxychlor	22.67	22.21	23.12	5771750				
Endrin ketone	23.00	22.54	23.46	16204296	23.12	17150252	Y	5.8
a. Chlordane	6.71	6.58	6.85	19736608	6.74	21154856	Y	7.2
g. Chlordane	6.22	6.09	6.34	20871636				
Toxaphene	13.91	13.64	14.19	516679				
Aroclor-1016	3.37	3.30	3.44	519187				
Aroclor-1221	2.26	2.21	2.30	215055				
Aroclor-1232	3.39	3.32	3.45	190416				
Aroclor-1242	3.39	3.32	3.45	403005				
Aroclor-1248	5.71	5.60	5.83	1010435				
Aroclor-1254	9.40	9.21	9.59	938028				
Aroclor-1260	19.19	18.80	19.57	1678735				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 07 GC Column ID: 2250/2401

DATE(S) OF FROM: <u>11/29/89</u>	DATE OF ANALYSIS <u>11/30/89</u>
ANALYSIS TO: <u>11/30/89</u>	TIME OF ANALYSIS <u>05:46</u>
TIME(S) OF FROM: <u>19:11</u>	EPA SAMPLE NO.
ANALYSIS TO: <u>00:06</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.19	2.14	2.23	20174812				
beta-BHC	2.93	2.87	2.99	6484180				
delta-BHC	3.40	3.33	3.46	18694488				
gamma-BHC	2.67	2.61	2.72	18362432	2.67	16693100	Y	9.1
Heptachlor	3.22	3.15	3.28	19434176	3.22	17244276	Y	11.3
Aldrin	3.83	3.76	3.91	19085524	3.84	16006852	Y	11.9
Hept. epoxide	5.36	5.25	5.47	18085100				
Endosulfan I	6.62	6.49	6.76	32071520	6.63	28688376	Y	10.5
Dieldrin	7.92	7.77	8.08	18353212	7.93	16605726	Y	9.5
4,4'-DDE	7.34	7.20	7.49	14673726				
Endrin	9.50	9.31	9.69	10982072				
Endosulfan II	11.20	10.97	11.42	15040794	11.20	14026300	Y	6.7
4,4'-DDD	10.70	10.49	10.92	12395876				
Endo.sulfate	16.45	16.12	16.78	9183388				
4,4'-DDT	12.77	12.52	13.03	11333916	12.78	9959192	Y	12.1
Methoxychlor	22.76	22.31	23.22	5035300	22.72	4460020	Y	11.4
Endrin ketone	22.60	22.15	23.05	11328416				
a. Chlordane	6.40	6.27	6.52	16319688				
g. Chlordane	5.91	5.80	6.03	16731012	5.92	14809176	Y	11.5
Toxaphene	13.57	13.30	13.84	440552				
Aroclor-1016	3.15	3.09	3.21	409735				
Aroclor-1221	2.06	2.02	2.10	168165				
Aroclor-1232	3.15	3.09	3.22	153603				
Aroclor-1242	3.15	3.09	3.22	324092				
Aroclor-1248	5.44	5.33	5.55	834241				
Aroclor-1254	9.08	8.90	9.26	718718				
Aroclor-1260	18.98	18.60	19.36	1462800				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: 12-881-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 07 GC Column ID: 2250/2401

DATE(S) OF ANALYSIS FROM: <u>11/29/89</u>	DATE OF ANALYSIS <u>11/30/89</u>
TO: <u>11/30/89</u>	TIME OF ANALYSIS <u>16:22</u>
TIME(S) OF ANALYSIS FROM: <u>19:11</u>	EPA SAMPLE HO. _____
TO: <u>00:06</u>	(STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.19	2.14	2.23	20174812	2.19	20871136	Y	3.5
beta-BHC	2.93	2.87	2.99	6484180	2.94	6770500	Y	4.4
delta-BHC	3.40	3.33	3.46	18694488	3.40	19233924	Y	2.9
gamma-BHC	2.67	2.61	2.72	18362432				
Heptachlor	3.22	3.15	3.28	19434176				
Aldrin	3.83	3.76	3.91	19085524				
Hept. epoxide	5.36	5.25	5.47	18085100	5.38	18708676	Y	3.4
Endosulfan I	6.62	6.49	6.76	32071520				
Dieldrin	7.92	7.77	8.08	18353212				
4,4'-DDE	7.34	7.20	7.49	14673726	7.38	14379794	Y	2.0
Endrin	9.50	9.31	9.69	10982072	9.54	12158018	Y	10.7
Endosulfan II	11.20	10.97	11.42	15040794				
4,4'-DDD	10.70	10.49	10.92	12395876	10.76	12633150	Y	1.9
Endo. sulfate	16.45	16.12	16.78	9183388	16.52	9734988	Y	6.0
4,4'-DDT	12.77	12.52	13.03	11333916				
Methoxychlor	22.76	22.31	23.22	5035300				
Endrin ketone	22.60	22.15	23.05	11328416	22.72	12556240	Y	10.8
a. Chlordane	6.40	6.27	6.52	16319688	6.43	16724038	Y	2.5
g. Chlordane	5.91	5.80	6.03	16731012				
Toxaphene	13.57	13.30	13.84	440552				
Aroclor-1016	3.15	3.09	3.21	409735				
Aroclor-1221	2.06	2.02	2.10	168165				
Aroclor-1232	3.15	3.09	3.22	153603				
Aroclor-1242	3.15	3.09	3.22	324092				
Aroclor-1248	5.44	5.33	5.55	834241				
Aroclor-1254	9.08	8.90	9.26	718718				
Aroclor-1260	18.98	18.60	19.36	1462800				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 07 GC Column ID: 2250/2401

DATE(S) OF ANALYSIS FROM: <u>11/29/89</u> TO: <u>11/30/89</u>	DATE OF ANALYSIS <u>11/30/89</u>
TIME(S) OF ANALYSIS FROM: <u>19:11</u> TO: <u>00:06</u>	TIME OF ANALYSIS <u>23:04</u>
	EPA SAMPLE NO. _____
	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.19	2.14	2.23	20174812				
beta-BHC	2.93	2.87	2.99	6484180				
delta-BHC	3.40	3.33	3.46	18694488				
gamma-BHC	2.67	2.61	2.72	18362432	2.65	20639136	Y	12.4
Heptachlor	3.22	3.15	3.28	19434176	3.21	21457944	Y	10.4
Aldrin	3.83	3.76	3.91	19085524	3.82	20846500	Y	9.2
Hept. epoxide	5.36	5.25	5.47	18085100				
Endosulfan I	6.62	6.49	6.76	32071520	6.60	35000152	Y	9.1
Dieldrin	7.92	7.77	8.08	18353212	7.89	19821356	Y	8.0
4,4'-DDE	7.34	7.20	7.49	14673726				
Endrin	9.50	9.31	9.69	10982072				
Endosulfan II	11.20	10.97	11.42	15040794	11.15	16460270	Y	9.4
4,4'-DDD	10.70	10.49	10.92	12395876				
Endo. sulfate	16.45	16.12	16.78	9183388				
4,4'-DDT	12.77	12.52	13.03	11333916	12.73	11991004	Y	5.8
Methoxychlor	22.76	22.31	23.22	5035300	22.66	5170000	Y	2.7
Endrin ketone	22.60	22.15	23.05	11328416				
a. Chlordane	6.40	6.27	6.52	16319688				
g. Chlordane	5.91	5.80	6.03	16731012	5.89	18118676	Y	8.3
Toxaphene	13.57	13.30	13.84	440552				
Aroclor-1016	3.15	3.09	3.21	409735				
Aroclor-1221	2.06	2.02	2.10	168165				
Aroclor-1232	3.15	3.09	3.22	153603				
Aroclor-1242	3.15	3.09	3.22	324092				
Aroclor-1248	5.44	5.33	5.55	834241				
Aroclor-1254	9.08	8.90	9.26	718718				
Aroclor-1260	18.98	18.60	19.36	1462800				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: Q7 GC Column ID: 2250/2401

DATE(S) OF FROM: <u>11/29/89</u>	DATE OF ANALYSIS <u>12/01/89</u>
ANALYSIS TO: <u>11/30/89</u>	TIME OF ANALYSIS <u>05:41</u>
TIME(S) OF FROM: <u>19:11</u>	EPA SAMPLE NO.
ANALYSIS TO: <u>00:06</u>	(STANDARD) <u>INDE</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.19	2.14	2.23	20174812	2.18	22263324	Y	10.4
beta-BHC	2.93	2.87	2.99	6484180	2.93	7135091	Y	10.0
delta-BHC	3.40	3.33	3.46	18694488	3.39	20701424	Y	10.7
gamma-BHC	2.67	2.61	2.72	18362432				
Heptachlor	3.22	3.15	3.28	19434176				
Aldrin	3.83	3.76	3.91	19085524				
Hept. epoxide	5.36	5.25	5.47	18085100	5.35	19301012	Y	6.7
Endosulfan I	6.62	6.49	6.76	32071520				
Dieldrin	7.92	7.77	8.08	18353212				
4,4'-DDE	7.34	7.20	7.49	14673726	7.33	15780338	Y	7.5
Endrin	9.50	9.31	9.69	10982072	9.48	12433400	Y	13.2
Endosulfan II	11.20	10.97	11.42	15040794				
4,4'-DDD	10.70	10.49	10.92	12395876	10.68	13415212	Y	8.2
Endo. sulfate	16.45	16.12	16.78	9183388	16.43	10246532	Y	11.6
4,4'-DDT	12.77	12.52	13.03	11333916				
Methoxychlor	22.76	22.31	23.22	5035300				
Endrin ketone	22.60	22.15	23.05	11328416	22.57	12743070	Y	12.5
a. Chlordane	6.40	6.27	6.52	16319688	6.39	17597052	Y	7.8
g. Chlordane	5.91	5.80	6.03	16731012				
Toxaphene	13.57	13.30	13.84	440552				
Aroclor-1016	3.15	3.09	3.21	409735				
Aroclor-1221	2.06	2.02	2.10	168165				
Aroclor-1232	3.15	3.09	3.22	153603				
Aroclor-1242	3.15	3.09	3.22	324092				
Aroclor-1248	5.44	5.33	5.55	834241				
Aroclor-1254	9.08	8.90	9.26	718718				
Aroclor-1260	18.98	18.60	19.36	1462800				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: Q7 GC Column ID: 2250/2401

DATE(S) OF ANALYSIS FROM: <u>11/29/89</u> TO: <u>11/30/89</u>	DATE OF ANALYSIS <u>12/02/89</u>
TIME(S) OF ANALYSIS FROM: <u>19:11</u> TO: <u>00:06</u>	TIME OF ANALYSIS <u>14:39</u>
	EPA SAMPLE NO. (STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.19	2.14	2.23	20174812				
beta-BHC	2.93	2.87	2.99	6484180				
delta-BHC	3.40	3.33	3.46	18694488				
gamma-BHC	2.67	2.61	2.72	18362432	2.68	23067996	N	25.6
Heptachlor	3.22	3.15	3.28	19434176	3.23	23950376	N	23.2
Aldrin	3.83	3.76	3.91	19085524	3.85	23358088	N	22.4
Hept. epoxide	5.36	5.25	5.47	18085100				
Endosulfan I	6.62	6.49	6.76	32071520	6.64	38822976	N	21.1
Dieldrin	7.92	7.77	8.08	18353212	7.94	22121712	N	20.5
4,4'-DDE	7.34	7.20	7.49	14673725				
Endrin	9.50	9.31	9.69	10982072				
Endosulfan II	11.20	10.97	11.42	15040794	11.21	18465712	N	22.8
4,4'-DDD	10.70	10.49	10.92	12395876				
Endo. sulfate	16.45	16.12	16.78	9183388				
4,4'-DDT	12.77	12.52	13.03	11333916	12.80	13249220	N	16.9
Methoxychlor	22.76	22.31	23.22	5035300	22.73	5824580	N	15.7
Endrin ketone	22.60	22.15	23.05	11328416				
a. Chlordane	6.40	6.27	6.52	16319688				
g. Chlordane	5.91	5.80	6.03	16731012	5.93	20172812	N	20.6
Toxaphene	13.57	13.30	13.84	440552				
Aroclor-1016	3.15	3.09	3.21	409735				
Aroclor-1221	2.06	2.02	2.10	168165				
Aroclor-1232	3.15	3.09	3.22	153603				
Aroclor-1242	3.15	3.09	3.22	324092				
Aroclor-1248	5.44	5.33	5.55	834241				
Aroclor-1254	9.08	8.90	9.26	718718				
Aroclor-1260	18.98	18.60	19.36	1462800				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 07 GC Column ID: 2250/2401

DATE(S) OF ANALYSIS FROM: <u>11/29/89</u> TO: <u>11/30/89</u>	DATE OF ANALYSIS <u>12/02/89</u>
TIME(S) OF ANALYSIS FROM: <u>19:11</u> TO: <u>00:06</u>	TIME OF ANALYSIS <u>15:36</u>
	EPA SAMPLE NO. _____
	(STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.19	2.14	2.23	20174812	2.17	24609680	N	22.0
beta-BHC	2.93	2.87	2.99	6484180	2.90	7724678	N	19.1
delta-BHC	3.40	3.33	3.46	18694488	3.36	22141776	N	18.4
gamma-BHC	2.67	2.61	2.72	18362432				
Heptachlor	3.22	3.15	3.28	19434176				
Aldrin	3.83	3.76	3.91	19085524				
Hept. epoxide	5.36	5.25	5.47	18085100	5.30	20983276	N	16.0
Endosulfan I	6.62	6.49	6.76	32071520				
Dieldrin	7.92	7.77	8.08	18353212				
4,4'-DDE	7.34	7.20	7.49	14673726	7.26	16769320	Y	14.3
Endrin	9.50	9.31	9.69	10982072	9.39	12752772	N	16.1
Endosulfan II	11.20	10.97	11.42	15040794				
4,4'-DDD	10.70	10.49	10.92	12395876	10.57	14333438	N	15.6
Endo.sulfate	16.45	16.12	16.78	9183388	16.25	10740188	N	17.0
4,4'-DDT	12.77	12.52	13.03	11333916				
Methoxychlor	22.76	22.31	23.22	5035300				
Endrin ketone	22.50	22.15	23.05	11328416	22.31	13908436	N	22.8
a. Chlordane	6.40	6.27	6.52	16319688	6.33	19027264	N	16.6
g. Chlordane	5.91	5.80	6.03	16731012				
Toxaphene	13.57	13.30	13.84	440552				
Aroclor-1016	3.15	3.09	3.21	409735				
Aroclor-1221	2.06	2.02	2.10	168165				
Aroclor-1232	3.15	3.09	3.22	153603				
Aroclor-1242	3.15	3.09	3.22	324092				
Aroclor-1248	5.44	5.33	5.55	834241				
Aroclor-1254	9.08	8.90	9.26	718718				
Aroclor-1260	18.98	18.60	19.36	1462800				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CROL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 12 GC Column ID: 2250/2401

DATE(S) OF ANALYSIS FROM: <u>11/22/89</u> TO: <u>11/22/89</u>	DATE OF ANALYSIS <u>11/22/89</u>
TIME(S) OF ANALYSIS FROM: <u>00:16</u> TO: <u>03:59</u>	TIME OF ANALYSIS <u>09:34</u>
	EPA SAMPLE NO. _____
	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.16	2.12	2.21	1176650				
beta-BHC	2.86	2.80	2.91	408481				
delta-BHC	3.28	3.22	3.35	1093650				
gamma-BHC	2.62	2.57	2.67	1103375	2.61	1101119	Y	0.2
Heptachlor	3.15	3.08	3.21	1032412	3.13	992650	Y	3.9
Aldrin	3.72	3.64	3.79	1129337	3.70	1059519	Y	6.2
Hept. epoxide	5.25	5.14	5.35	967600				
Endosulfan I	6.49	6.36	6.62	1871062	6.45	1861300	Y	0.5
Dieldrin	7.71	7.56	7.86	1012231	7.67	1011912	Y	0.0
4,4'-DDE	6.99	6.85	7.13	805325				
Endrin	9.18	9.00	9.37	383300				
Endosulfan II	10.84	10.62	11.06	827338	10.78	827619	Y	0.0
4,4'-DDD	10.22	10.02	10.43	711775				
Endo. sulfate	16.57	16.33	17.00	464738				
4,4'-DDT	12.13	11.89	12.37	701675	12.07	658317	Y	6.2
Methoxychlor	21.04	20.62	21.46	390550	20.94	382800	Y	2.0
Endrin ketone	21.97	21.54	22.41	697215				
a. Chlordane	6.17	6.04	6.29	891937				
g. Chlordane	5.72	5.61	5.84	904775	5.69	908625	Y	0.4
Toxaphene	13.07	12.81	13.33	32642				
Aroclor-1016	3.04	2.98	3.10	33155				
Aroclor-1221	2.00	1.96	2.04	11775				
Aroclor-1232	3.04	2.98	3.10	12016				
Aroclor-1242	3.03	2.97	3.09	25541				
Aroclor-1248	5.20	5.10	5.31	68116				
Aroclor-1254	8.63	8.46	8.81	53296				
Aroclor-1260	17.88	17.53	18.24	111567				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 10410 SAS No.: _____ SDG No.: 5
 Instrument ID: 12 GC Column ID: 2250/2401

DATE(S) OF ANALYSIS FROM: <u>11/22/89</u>	DATE OF ANALYSIS <u>11/22/89</u>
TO: <u>11/22/89</u>	TIME OF ANALYSIS <u>21:58</u>
TIME(S) OF ANALYSIS FROM: <u>00:16</u>	EPA SAMPLE NO.
TO: <u>03:59</u>	(STANDARD) <u>INDB</u>

COMPOUNO	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.16	2.12	2.21	1176650	2.15	1153625	Y	2.0
beta-BHC	2.86	2.80	2.91	408481	2.84	391213	Y	4.2
delta-BHC	3.28	3.22	3.35	1093650	3.26	1077019	Y	1.5
gamma-BHC	2.62	2.57	2.67	1103375				
Heptachlor	3.15	3.08	3.21	1032412				
Aldrin	3.72	3.64	3.79	1129337				
Hept. epoxide	5.25	5.14	5.35	967600	5.21	950075	Y	1.8
Endosulfan I	6.49	6.36	6.62	1871062				
Dieldrin	7.71	7.56	7.86	1012231				
4,4'-DDE	6.99	6.85	7.13	805325	6.95	845412	Y	5.0
Endrin	9.18	9.00	9.37	383300	9.11	434400	Y	13.3
Endosulfan II	10.84	10.62	11.06	827338				
4,4'-DDD	10.22	10.02	10.43	711775	10.15	500847	N	29.6
Endo.sulfate	16.67	16.33	17.00	464738	16.52	455601	Y	1.9
4,4'-DDT	12.13	11.89	12.37	701675				
Methoxychlor	21.04	20.62	21.46	390550				
Endrin ketone	21.97	21.54	22.41	697215	21.77	478468	N	31.4
a. Chlordane	6.17	6.04	6.29	891937	6.12	853212	Y	4.3
g. Chlordane	5.72	5.61	5.84	904775				
Toxaphene	13.07	12.81	13.33	32642				
Aroclor-1016	3.04	2.98	3.10	33155				
Aroclor-1221	2.00	1.96	2.04	11775				
Aroclor-1232	3.04	2.98	3.10	12016				
Aroclor-1242	3.03	2.97	3.09	25541				
Aroclor-1248	5.20	5.10	5.31	68116				
Aroclor-1254	8.63	8.46	8.81	53296				
Aroclor-1260	17.88	17.53	18.24	111567				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REYS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 12 GC Column ID: 2250/2401

DATE(S) OF ANALYSIS FROM: <u>11/22/89</u>	DATE OF ANALYSIS <u>11/22/89</u>
TO: <u>11/22/89</u>	TIME OF ANALYSIS <u>23:10</u>
TIME(S) OF ANALYSIS FROM: <u>00:16</u>	EPA SAMPLE NO.
TO: <u>03:59</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.16	2.12	2.21	1176650				
beta-BHC	2.86	2.80	2.91	408481				
delta-BHC	3.28	3.22	3.35	1093650				
gamma-BHC	2.62	2.57	2.67	1103375	2.64	2280519	N	106.7
Heptachlor	3.15	3.08	3.21	1032412	3.15	766631	N	25.7
Aldrin	3.72	3.64	3.79	1129337	3.73	176459	N	84.4
Hept. epoxide	5.25	5.14	5.35	967600				
Endosulfan I	6.49	6.36	6.62	1871062	6.48	1373012	N	26.6
Dieldrin	7.71	7.56	7.86	1012231	7.68	477788	N	52.8
4,4'-DDE	6.99	6.85	7.13	805325				
Endrin	9.18	9.00	9.37	383300				
Endosulfan II	10.84	10.62	11.06	827338	10.78	324094	N	60.8
4,4'-DDD	10.22	10.02	10.43	711775				
Endo.sulfate	16.67	16.33	17.00	464738				
4,4'-DDT	12.13	11.89	12.37	701675	12.09	674458	Y	3.9
Methoxychlor	21.04	20.62	21.46	390550	20.95	342560	Y	12.3
Endrin ketone	21.97	21.54	22.41	697215				
a. Chlordane	6.17	6.04	6.29	891937				
g. Chlordane	5.72	5.61	5.84	904775	5.95	1764587	N	95.0
Toxaphene	13.07	12.81	13.33	32642				
Aroclor-1016	3.04	2.98	3.10	33155				
Aroclor-1221	2.00	1.96	2.04	11775				
Aroclor-1232	3.04	2.98	3.10	12016				
Aroclor-1242	3.03	2.97	3.09	25541				
Aroclor-1248	5.20	5.10	5.31	68116				
Aroclor-1254	8.63	8.46	8.81	53296				
Aroclor-1260	17.88	17.53	18.24	111567				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101

DATE(S) OF FROM: <u>11/20/89</u>	DATE OF ANALYSIS <u>11/21/89</u>
ANALYSIS TO: <u>11/21/89</u>	TIME OF ANALYSIS <u>05:50</u>
TIME(S) OF FROM: <u>19:25</u>	EPA SAMPLE NO.
ANALYSIS TO: <u>00:24</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.10	2.06	2.15	9855400				
beta-BHC	2.22	2.18	2.27	4405750				
delta-BHC	2.48	2.43	2.53	8907800				
gamma-BHC	2.42	2.37	2.47	10433550	2.45	10768362	Y	3.2
Heptachlor	3.71	3.63	3.78	9008650	3.75	8949126	Y	0.7
Aldrin	4.51	4.42	4.60	10259676	4.57	10535262	Y	2.7
Hept. epoxide	5.39	5.29	5.50	8929888				
Endosulfan I	6.61	6.48	6.75	17316276	6.70	17797524	Y	2.8
Dieldrin	7.65	7.49	7.80	9013638	7.74	9133488	Y	1.3
4,4'-DDE	7.44	7.29	7.59	7761863				
Endrin	8.48	8.31	8.65	3980413				
Endosulfan II	8.69	8.52	8.87	7658169	8.80	7763531	Y	1.4
4,4'-DDD	9.25	9.06	9.43	11366556				
Endo.sulfate	10.92	10.70	11.14	2083000				
4,4'-DDT	11.85	11.62	12.09	5783891	12.00	5923608	Y	2.4
Methoxychlor	16.94	16.60	17.28	2489540	17.16	2492605	Y	0.1
Endrin ketone	13.85	13.58	14.13	5918370				
a. Chlordane	6.70	6.57	6.84	8702906				
g. Chlordane	6.10	5.98	6.22	8332663	6.18	8474888	Y	1.7
Toxaphene	10.45	10.24	10.66	128821				
Aroclor-1016	3.24	3.18	3.31	356641				
Aroclor-1221	2.11	2.07	2.16	102361				
Aroclor-1232	3.25	3.19	3.32	136166				
Aroclor-1242	3.25	3.19	3.32	277378				
Aroclor-1248	5.44	5.33	5.55	770897				
Aroclor-1254	10.50	10.29	10.71	470235				
Aroclor-1260	19.00	18.62	19.38	1316533				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPV Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101

DATE(S) OF ANALYSIS FROM: <u>11/20/89</u> TO: <u>11/21/89</u>	DATE OF ANALYSIS <u>11/21/89</u>
TIME(S) OF ANALYSIS FROM: <u>19:25</u> TO: <u>00:24</u>	TIME OF ANALYSIS <u>19:11</u>
	EPA SAMPLE NO. (STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.10	2.06	2.15	9855400	2.08	9610400	Y	2.5
beta-BHC	2.22	2.18	2.27	4405750	2.20	4379850	Y	0.6
delta-BHC	2.48	2.43	2.53	8907800	2.45	8590200	Y	3.6
gamma-BHC	2.42	2.37	2.47	10433550				
Heptachlor	3.71	3.63	3.78	9008650				
Aldrin	4.51	4.42	4.60	10259676				
Hept. epoxide	5.39	5.29	5.50	8929888	5.34	8700150	Y	2.6
Endosulfan I	6.61	6.48	6.75	17316276				
Dieldrin	7.65	7.49	7.80	9013638				
4,4'-DDE	7.44	7.29	7.59	7761863	7.36	7512663	Y	3.2
Endrin	8.48	8.31	8.65	3980413	8.39	3580710	Y	10.0
Endosulfan II	8.69	8.52	8.87	7658169				
4,4'-DDD	9.25	9.06	9.43	11366556	9.15	11039726	Y	2.9
Endo.sulfate	10.92	10.70	11.14	2083000	10.81	1874087	Y	10.0
4,4'-DDT	11.85	11.62	12.09	5783891				
Methoxychlor	16.94	16.60	17.28	2489540				
Endrin ketone	13.85	13.58	14.13	5918370	13.71	5801780	Y	2.0
a. Chlordane	6.70	6.57	6.84	8702906	6.63	8520850	Y	2.1
g. Chlordane	6.10	5.98	6.22	8332663				
Toxaphene	10.45	10.24	10.66	128821				
Aroclor-1016	3.24	3.18	3.31	356641				
Aroclor-1221	2.11	2.07	2.16	102361				
Aroclor-1232	3.25	3.19	3.32	136166				
Aroclor-1242	3.25	3.19	3.32	277378				
Aroclor-1248	5.44	5.33	5.55	770897				
Aroclor-1254	10.50	10.29	10.71	470235				
Aroclor-1260	19.00	18.62	19.38	1316533				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMP Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101

DATE(S) OF FROM: <u>11/20/89</u>	DATE OF ANALYSIS <u>11/22/89</u>
ANALYSIS TO: <u>11/21/89</u>	TIME OF ANALYSIS <u>01:22</u>
TIME(S) OF FROM: <u>19:25</u>	EPA SAMPLE NO.
ANALYSIS TO: <u>00:24</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.10	2.06	2.15	9855400				
beta-BHC	2.22	2.18	2.27	4405750				
delta-BHC	2.48	2.43	2.53	8907800				
gamma-BHC	2.42	2.37	2.47	10433550	2.42	10393226	Y	0.4
Heptachlor	3.71	3.63	3.78	9008650	3.71	8913338	Y	1.1
Aldrin	4.51	4.42	4.60	10259676	4.52	10267426	Y	0.1
Hept. epoxide	5.39	5.29	5.50	8929888				
Endosulfan I	6.61	6.48	6.75	17316276	6.62	17124224	Y	1.1
Dieldrin	7.65	7.49	7.80	9013638	7.65	8672638	Y	3.8
4,4'-DDE	7.44	7.29	7.59	7761863				
Endrin	8.48	8.31	8.65	3980413				
Endosulfan II	8.69	8.52	8.87	7658169	8.70	7434488	Y	2.9
4,4'-DDD	9.25	9.06	9.43	11366556				
Endo.sulfate	10.92	10.70	11.14	2083000				
4,4'-DDT	11.85	11.62	12.09	5783891	11.86	5740800	Y	0.7
Methoxychlor	16.94	16.60	17.28	2489540	16.95	2426590	Y	2.5
Endrin ketone	13.85	13.58	14.13	5918370				
a. Chlordane	6.70	6.57	6.84	8702906				
g. Chlordane	6.10	5.98	6.22	8332663	6.11	8269913	Y	0.8
Toxaphene	10.45	10.24	10.66	128821				
Aroclor-1016	3.24	3.18	3.31	356641				
Aroclor-1221	2.11	2.07	2.16	102361				
Aroclor-1232	3.25	3.19	3.32	136166				
Aroclor-1242	3.25	3.19	3.32	277378				
Aroclor-1248	5.44	5.33	5.55	770897				
Aroclor-1254	10.50	10.29	10.71	470235				
Aroclor-1260	19.00	18.62	19.38	1316533				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101

DATE(S) OF ANALYSIS FROM: <u>11/20/89</u>	DATE OF ANALYSIS <u>11/22/89</u>
TO: <u>11/21/89</u>	TIME OF ANALYSIS <u>06:49</u>
TIME(S) OF ANALYSIS FROM: <u>19:25</u>	EPA SAMPLE NO.
TO: <u>00:24</u>	(STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.10	2.06	2.15	9855400	2.11	9356200	Y	5.1
beta-BHC	2.22	2.18	2.27	4405750	2.23	4083900	Y	7.3
delta-BHC	2.48	2.43	2.53	8907800	2.49	8526800	Y	4.3
gamma-BHC	2.42	2.37	2.47	10433550				
Heptachlor	3.71	3.63	3.78	9008650				
Aldrin	4.51	4.42	4.60	10259676				
Hept. epoxide	5.39	5.29	5.50	8929888	5.41	8394588	Y	6.0
Endosulfan I	6.61	6.48	6.75	17316276				
Dieldrin	7.65	7.49	7.80	9013638				
4,4'-DDE	7.44	7.29	7.59	7761863	7.46	7493663	Y	3.5
Endrin	8.48	8.31	8.65	3980413	8.51	3731319	Y	6.3
Endosulfan II	8.69	8.52	8.87	7658169				
4,4'-DDD	9.25	9.06	9.43	11366556	9.28	10645332	Y	6.3
Endo.sulfate	10.92	10.70	11.14	2083000	10.96	2255056	Y	2.1
4,4'-DDT	11.85	11.62	12.09	5783891				
Methoxychlor	16.94	16.60	17.28	2489540				
Endrin ketone	13.85	13.58	14.13	5918370	13.91	6234320	Y	5.3
a. Chlordane	6.70	6.57	6.84	8702906	6.73	8142425	Y	6.4
g. Chlordane	6.10	5.98	6.22	8332663				
Toxaphene	10.45	10.24	10.66	128821				
Aroclor-1016	3.24	3.18	3.31	356641				
Aroclor-1221	2.11	2.07	2.16	102361				
Aroclor-1232	3.25	3.19	3.32	136166				
Aroclor-1242	3.25	3.19	3.32	277378				
Aroclor-1248	5.44	5.33	5.55	770897				
Aroclor-1254	10.50	10.29	10.71	470235				
Aroclor-1260	19.00	18.62	19.38	1316533				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-RRVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.10	2.06	2.15	9855400				
beta-BHC	2.22	2.18	2.27	4405750				
delta-BHC	2.48	2.43	2.53	8907800				
gamma-BHC	2.42	2.37	2.47	10433550	2.44	10422662	Y	0.1
Heptachlor	3.71	3.63	3.78	9008650	3.74	9413726	Y	4.5
Aldrin	4.51	4.42	4.60	10259676	4.55	10508300	Y	2.4
Hept. epoxide	5.39	5.29	5.50	8929888				
Endosulfan I	6.61	6.48	6.75	17316276	6.68	17620876	Y	1.8
Dieldrin	7.65	7.49	7.80	9013638	7.72	8953900	Y	0.7
4,4'-DDE	7.44	7.29	7.59	7761863				
Endrin	8.48	8.31	8.65	3980413				
Endosulfan II	8.69	8.52	8.87	7658169	8.78	7632075	Y	0.3
4,4'-DDD	9.25	9.06	9.43	11366556				
Endo. sulfate	10.92	10.70	11.14	2083000				
4,4'-DDT	11.85	11.62	12.09	5783891	11.97	5873333	Y	1.5
Methoxychlor	16.94	16.60	17.28	2489540	17.11	2576240	Y	3.5
Endrin ketone	13.85	13.58	14.13	5918370				
a. Chlordane	6.70	6.57	6.84	8702906				
g. Chlordane	6.10	5.98	6.22	8332663	6.16	8481700	Y	1.8
Toxaphene	10.45	10.24	10.66	128821				
Aroclor-1016	3.24	3.18	3.31	356641				
Aroclor-1221	2.11	2.07	2.16	102361				
Aroclor-1232	3.25	3.19	3.32	136166				
Aroclor-1242	3.25	3.19	3.32	277378				
Aroclor-1248	5.44	5.33	5.55	770897				
Aroclor-1254	10.50	10.29	10.71	470235				
Aroclor-1260	19.00	18.62	19.38	1316533				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D.
 Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101

DATE(S) OF FROM: <u>11/20/89</u>	DATE OF ANALYSIS <u>11/22/89</u>
ANALYSIS TO: <u>11/21/89</u>	TIME OF ANALYSIS <u>19:56</u>
TIME(S) OF FROM: <u>19:25</u>	EPA SAMPLE NO.
ANALYSIS TO: <u>00:24</u>	(STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.10	2.06	2.15	9855400	2.11	9583100	Y	2.8
beta-BHC	2.22	2.18	2.27	4405750	2.23	4525800	Y	2.7
delta-BHC	2.48	2.43	2.53	8907800	2.49	9298000	Y	4.4
gamma-BHC	2.42	2.37	2.47	10433550				
Heptachlor	3.71	3.63	3.78	9008650				
Aldrin	4.51	4.42	4.60	10259676				
Hept. epoxide	5.39	5.29	5.50	8929888	5.41	8902188	Y	0.3
Endosulfan I	6.61	6.48	6.75	17316276				
Dieldrin	7.65	7.49	7.80	9013638				
4,4'-DDE	7.44	7.29	7.59	7761863	7.46	7727913	Y	0.4
Endrin	8.48	8.31	8.65	3980413	8.51	3596037	Y	9.7
Endosulfan II	8.69	8.52	8.87	7658169				
4,4'-DDD	9.25	9.06	9.43	11366556	9.28	11403494	Y	0.3
Endo.sulfate	10.92	10.70	11.14	2083000	10.96	2369800	Y	2.8
4,4'-DDT	11.85	11.62	12.09	5783891				
Methoxychlor	16.94	16.60	17.28	2489540				
Endrin ketone	13.85	13.58	14.13	5918370	13.90	6142110	Y	3.8
a. Chlordane	6.70	6.57	6.84	8702906	6.73	8825406	Y	1.4
g. Chlordane	6.10	5.98	6.22	8332663				
Toxaphene	10.45	10.24	10.66	128821				
Aroclor-1016	3.24	3.18	3.31	356641				
Aroclor-1221	2.11	2.07	2.16	102361				
Aroclor-1232	3.25	3.19	3.32	136166				
Aroclor-1242	3.25	3.19	3.32	277378				
Aroclor-1248	5.44	5.33	5.55	770897				
Aroclor-1254	10.50	10.29	10.71	470235				
Aroclor-1260	19.00	18.62	19.38	1316533				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101

DATE(S) OF ANALYSIS FROM: <u>11/20/89</u> TO: <u>11/21/89</u>	DATE OF ANALYSIS <u>11/22/89</u>
TIME(S) OF ANALYSIS FROM: <u>19:25</u> TO: <u>00:24</u>	TIME OF ANALYSIS <u>21:11</u>
	EPA SAMPLE NO. (STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.10	2.06	2.15	9855400				
beta-BHC	2.22	2.18	2.27	4405750				
delta-BHC	2.48	2.43	2.53	8907800				
gamma-BHC	2.42	2.37	2.47	10433550	2.43	11148950	Y	6.9
Heptachlor	3.71	3.63	3.78	9008650	3.72	8807638	Y	2.2
Aldrin	4.51	4.42	4.60	10259676	4.53	10412526	Y	1.5
Hept. epoxide	5.39	5.29	5.50	8929888				
Endosulfan I	6.61	6.48	6.75	17316276	6.64	16714250	Y	3.5
Dieldrin	7.65	7.49	7.80	9013638	7.68	8608062	Y	4.5
4,4'-DDE	7.44	7.29	7.59	7761863				
Endrin	8.48	8.31	8.65	3980413				
Endosulfan II	8.69	8.52	8.87	7658169	8.73	7273763	Y	5.0
4,4'-DDD	9.25	9.06	9.43	11366556				
Endo.sulfate	10.92	10.70	11.14	2083000				
4,4'-DDT	11.85	11.62	12.09	5783891	11.90	5840575	Y	1.0
Methoxychlor	16.94	16.60	17.28	2489540	17.01	2199075	Y	11.7
Endrin ketone	13.85	13.58	14.13	5918370				
a. Chlordane	6.70	6.57	6.84	8702906				
g. Chlordane	6.10	5.98	6.22	8332663	6.13	8079988	Y	3.0
Toxaphene	10.45	10.24	10.66	128821				
Aroclor-1016	3.24	3.18	3.31	356641				
Aroclor-1221	2.11	2.07	2.16	102361				
Aroclor-1232	3.25	3.19	3.32	136166				
Aroclor-1242	3.25	3.19	3.32	277378				
Aroclor-1248	5.44	5.33	5.55	770897				
Aroclor-1254	10.50	10.29	10.71	470235				
Aroclor-1260	19.00	18.62	19.38	1316533				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: OV-101

DATE(S) OF ANALYSIS FROM: <u>11/20/89</u> TO: <u>11/21/89</u>	DATE OF ANALYSIS <u>11/22/89</u>
TIME(S) OF ANALYSIS FROM: <u>19:25</u> TO: <u>00:24</u>	TIME OF ANALYSIS <u>21:38</u>
	EPA SAMPLE NO. _____
	(STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.10	2.06	2.15	9855400	2.12	9671800	Y	1.9
beta-BHC	2.22	2.18	2.27	4405750	2.24	4549600	Y	3.3
delta-BHC	2.48	2.43	2.53	8907800	2.50	9186100	Y	3.1
gamma-BHC	2.42	2.37	2.47	10433550				
Heptachlor	3.71	3.63	3.78	9008650				
Aldrin	4.51	4.42	4.60	10259676				
Hept. epoxide	5.39	5.29	5.50	8929888	5.44	9068738	Y	1.6
Endosulfan I	6.61	6.48	6.75	17316276				
Dieldrin	7.65	7.49	7.80	9013638				
4,4'-DDE	7.44	7.29	7.59	7761863	7.50	8445376	Y	8.8
Endrin	8.48	8.31	8.65	3980413	8.55	3854100	Y	3.2
Endosulfan II	8.69	8.52	8.87	7658169				
4,4'-DDD	9.25	9.05	9.43	11366556	9.33	11718944	Y	3.1
Endo. sulfate	10.92	10.70	11.14	2083000	11.02	2438525	Y	5.8
4,4'-DDT	11.85	11.62	12.09	5783891				
Methoxychlor	16.94	16.60	17.28	2489540				
Endrin ketone	13.85	13.58	14.13	5918370	13.98	6243895	Y	5.5
a. Chlordane	6.70	6.57	6.84	8702905	6.76	8999500	Y	3.4
g. Chlordane	6.10	5.98	6.22	8332663				
Toxaphene	10.45	10.24	10.66	128821				
Aroclor-1016	3.24	3.18	3.31	356641				
Aroclor-1221	2.11	2.07	2.16	102361				
Aroclor-1232	3.25	3.19	3.32	136166				
Aroclor-1242	3.25	3.19	3.32	277378				
Aroclor-1248	5.44	5.33	5.55	770897				
Aroclor-1254	10.50	10.29	10.71	470235				
Aroclor-1260	19.00	18.62	19.38	1316533				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REYS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101

DATE(S) OF ANALYSIS FROM: <u>11/28/89</u> TO: <u>11/28/89</u>	DATE OF ANALYSIS <u>11/29/89</u>
TIME(S) OF ANALYSIS FROM: <u>13:13</u> TO: <u>16:51</u>	TIME OF ANALYSIS <u>03:04</u>
	EPA SAMPLE NO. (STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.11	2.05	2.18	10849300				
beta-BHC	2.23	2.16	2.30	4644300				
delta-BHC	2.49	2.42	2.57	9290600				
gamma-BHC	2.43	2.35	2.50	11550476	2.46	11284688	Y	2.3
Heptachlor	3.72	3.61	3.83	8798676	3.78	8093513	Y	8.0
Aldrin	4.53	4.39	4.67	10629400	4.60	10319450	Y	2.9
Hept. epoxide	5.42	5.26	5.58	9444162				
Endosulfan I	6.65	6.45	6.85	17709636	6.75	17234336	Y	2.7
Dieldrin	7.69	7.46	7.92	8965376	7.81	8676462	Y	3.2
4,4'-DDE	7.48	7.25	7.70	8316919				
Endrin	8.53	8.27	8.78	3940634				
Endosulfan II	8.75	8.48	9.01	7651406	8.88	7414063	Y	3.1
4,4'-DDD	9.30	9.02	9.58	6979325				
Endo. sulfate	10.99	10.66	11.32	2029525				
4,4'-DDT	11.92	11.56	12.28	6173991	12.10	5544050	Y	10.2
Methoxychlor	17.02	16.51	17.53	2010870	17.27	1963210	Y	2.4
Endrin ketone	13.94	13.52	14.36	6184715				
a. Chlordane	6.74	6.53	6.94	9367344				
g. Chlordane	6.13	5.95	6.31	8463026	6.23	8276163	Y	2.2
Toxaphene	10.52	10.21	10.84	130686				
Aroclor-1016	3.27	3.17	3.37	359223				
Aroclor-1221	2.12	2.06	2.19	107485				
Aroclor-1232	3.27	3.17	3.37	139391				
Aroclor-1242	3.27	3.17	3.36	276640				
Aroclor-1248	5.49	5.32	5.65	780431				
Aroclor-1254	10.58	10.26	10.90	706115				
Aroclor-1260	19.12	18.55	19.70	1391336				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101

DATE(S) OF ANALYSIS FROM: <u>11/28/89</u>	DATE OF ANALYSIS <u>11/29/89</u>
TO: <u>11/28/89</u>	TIME OF ANALYSIS <u>08:30</u>
TIME(S) OF ANALYSIS FROM: <u>13:13</u>	EPA SAMPLE NO.
TO: <u>16:51</u>	(STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.11	2.05	2.18	10849300	2.13	9939000	Y	8.4
beta-BHC	2.23	2.16	2.30	4644300	2.25	4560850	Y	1.8
delta-BHC	2.49	2.42	2.57	9290600	2.52	8868600	Y	4.5
gamma-BHC	2.43	2.35	2.50	11550476				
Heptachlor	3.72	3.51	3.83	8798576				
Aldrin	4.53	4.39	4.67	10629400				
Hept. epoxide	5.42	5.26	5.58	9444162	5.49	8922276	Y	5.5
Endosulfan I	6.65	6.45	6.85	17709636				
Dieldrin	7.69	7.46	7.92	8965376				
4,4'-DDE	7.48	7.25	7.70	8316919	7.57	7776413	Y	6.5
Endrin	8.53	8.27	8.78	3940634	8.53	3650475	Y	7.4
Endosulfan II	8.75	8.48	9.01	7651406				
4,4'-DDD	9.30	9.02	9.58	6979325	9.42	6576250	Y	5.8
Endo.sulfate	10.99	10.66	11.32	2029525	11.13	1907200	Y	6.0
4,4'-DDT	11.92	11.56	12.28	6173991				
Methoxychlor	17.02	16.51	17.53	2010870				
Endrin ketone	13.94	13.52	14.36	6184715	14.11	6078865	Y	1.7
a. Chlordane	6.74	6.53	6.94	9367344	6.82	8791988	Y	6.1
g. Chlordane	6.13	5.95	6.31	8463026				
Toxaphene	10.52	10.21	10.84	130686				
Aroclor-1016	3.27	3.17	3.37	359223				
Aroclor-1221	2.12	2.06	2.19	107485				
Aroclor-1232	3.27	3.17	3.37	139391				
Aroclor-1242	3.27	3.17	3.36	276640				
Aroclor-1248	5.49	5.32	5.65	780431				
Aroclor-1254	10.58	10.26	10.90	706115				
Aroclor-1260	19.12	18.55	19.70	1391336				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of each analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: OV-101

DATE(S) OF ANALYSIS FROM: <u>11/28/89</u> TO: <u>11/28/89</u>	DATE OF ANALYSIS <u>11/29/89</u>
TIME(S) OF ANALYSIS FROM: <u>13:13</u> TO: <u>16:51</u>	TIME OF ANALYSIS <u>19:44</u>
	EPA SAMPLE NO. (STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.11	2.05	2.18	10849300				
beta-BHC	2.23	2.16	2.30	4644300				
delta-BHC	2.49	2.42	2.57	9290600				
gamma-BHC	2.43	2.35	2.50	11550476	2.48	12172138	Y	5.4
Heptachlor	3.72	3.61	3.83	8798676	3.80	7642200	Y	13.1
Aldrin	4.53	4.39	4.67	10629400	4.62	10269388	Y	3.4
Hept. epoxide	5.42	5.26	5.58	9444162				
Endosulfan I	6.65	6.45	6.85	17709636	6.76	17654176	Y	0.3
Dieldrin	7.69	7.46	7.92	8965376	7.80	9070812	Y	1.2
4,4'-DDE	7.48	7.25	7.70	8316919				
Endrin	8.53	8.27	8.78	3940634				
Endosulfan II	8.75	8.48	9.01	7651406	8.87	7880469	Y	3.0
4,4'-DDD	9.30	9.02	9.58	6979325				
Endo.sulfate	10.99	10.66	11.32	2029525				
4,4'-DDT	11.92	11.56	12.28	6173991	12.05	5651825	Y	8.5
Methoxychlor	17.02	16.51	17.53	2010870	17.14	2174400	Y	8.1
Endrin ketone	13.94	13.52	14.36	6184715				
a. Chlordane	6.74	6.53	6.94	9367344				
g. Chlordane	6.13	5.95	6.31	8463026	6.24	8346888	Y	1.4
Toxaphene	10.52	10.21	10.84	130686				
Aroclor-1016	3.27	3.17	3.37	359223				
Aroclor-1221	2.12	2.06	2.19	107485				
Aroclor-1232	3.27	3.17	3.37	139391				
Aroclor-1242	3.27	3.17	3.36	276640				
Aroclor-1248	5.49	5.32	5.65	780431				
Aroclor-1254	10.58	10.26	10.90	706115				
Aroclor-1260	19.12	18.55	19.70	1391336				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPI Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: OV-101

DATE(S) OF FROM: <u>11/28/89</u>	DATE OF ANALYSIS <u>11/30/89</u>
ANALYSIS TD: <u>11/28/89</u>	TIME OF ANALYSIS <u>03:04</u>
TIME(S) OF FROM: <u>13:13</u>	EPA SAMPLE NO.
ANALYSIS TO: <u>16:51</u>	(STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.11	2.05	2.18	10849300	2.15	9755300	Y	10.1
beta-BHC	2.23	2.16	2.30	4644300	2.27	4695100	Y	1.1
delta-BHC	2.49	2.42	2.57	9290600	2.53	9260900	Y	0.3
gamma-BHC	2.43	2.35	2.50	11550476				
Heptachlor	3.72	3.61	3.83	8798676				
Aldrin	4.53	4.39	4.67	10629400				
Hept. epoxide	5.42	5.26	5.58	9444162	5.48	9053812	Y	4.1
Endosulfan I	6.65	6.45	6.85	17709636				
Dieldrin	7.69	7.46	7.92	8965376				
4,4'-DDE	7.48	7.25	7.70	8316919	7.53	7760238	Y	6.7
Endrin	8.53	8.27	8.78	3940634	8.60	3447982	Y	12.5
Endosulfan II	8.75	8.48	9.01	7651406				
4,4'-DDD	9.30	9.02	9.58	6979325	9.36	6702400	Y	4.0
Endo.sulfate	10.99	10.66	11.32	2029525	11.06	2230875	Y	9.9
4,4'-DDT	11.92	11.56	12.28	6173991				
Methoxychlor	17.02	16.51	17.53	2010870				
Endrin ketone	13.94	13.52	14.36	6184715	14.01	6513565	Y	5.3
a. Chlordane	6.74	6.53	6.94	9367344	6.80	8900518	Y	5.0
g. Chlordane	6.13	5.95	6.31	8463026				
Toxaphene	10.52	10.21	10.84	130686				
Aroclor-1016	3.27	3.17	3.37	359223				
Aroclor-1221	2.12	2.06	2.19	107485				
Aroclor-1232	3.27	3.17	3.37	139391				
Aroclor-1242	3.27	3.17	3.36	276640				
Aroclor-1248	5.49	5.32	5.65	780431				
Aroclor-1254	10.58	10.26	10.90	706115				
Aroclor-1260	19.12	18.55	19.70	1391336				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-881-REYS)
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: OV-101

DATE(S) OF ANALYSIS FROM: <u>11/28/89</u> TO: <u>11/28/89</u>	DATE OF ANALYSIS <u>11/30/89</u>
TIME(S) OF ANALYSIS FROM: <u>13:13</u> TO: <u>16:51</u>	TIME OF ANALYSIS <u>03:58</u>
	EPA SAMPLE NO. _____
	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.11	2.05	2.18	10849300				
beta-BHC	2.23	2.16	2.30	4644300				
delta-BHC	2.49	2.42	2.57	9290600				
gamma-BHC	2.43	2.35	2.50	11550476	2.47	11315550	Y	2.0
Heptachlor	3.72	3.61	3.83	8798676	3.78	8597300	Y	2.3
Aldrin	4.53	4.39	4.67	10629400	4.59	10072688	Y	5.2
Hept. epoxide	5.42	5.26	5.58	9444162				
Endosulfan I	6.65	6.45	6.85	17709636	6.72	16902724	Y	4.6
Dieldrin	7.69	7.46	7.92	8965376	7.76	8576912	Y	4.3
4,4'-DDE	7.48	7.25	7.70	8316919				
Endrin	8.53	8.27	8.78	3940634				
Endosulfan II	8.75	8.48	9.01	7651406	8.81	7605306	Y	0.6
4,4'-DDD	9.30	9.02	9.58	6979325				
Endo.sulfate	10.99	10.66	11.32	2029525				
4,4'-DDT	11.92	11.56	12.28	6173991	11.98	5440408	Y	11.9
Methoxychlor	17.02	16.51	17.53	2010870	17.07	2021215	Y	0.5
Endrin ketone	13.94	13.52	14.36	6184715				
a. Chlordane	6.74	6.53	6.94	9367344				
g. Chlordane	6.13	5.95	6.31	8463026	6.20	7958638	Y	6.0
Toxaphene	10.52	10.21	10.84	130686				
Aroclor-1016	3.27	3.17	3.37	359223				
Aroclor-1221	2.12	2.06	2.19	107485				
Aroclor-1232	3.27	3.17	3.37	139391				
Aroclor-1242	3.27	3.17	3.36	276640				
Aroclor-1248	5.49	5.32	5.65	780431				
Aroclor-1254	10.58	10.26	10.90	706115				
Aroclor-1260	19.12	18.55	19.70	1391336				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 10410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101

DATE(S) OF ANALYSIS FROM: <u>11/28/89</u>	DATE OF ANALYSIS <u>11/30/89</u>
TO: <u>11/28/89</u>	TIME OF ANALYSIS <u>04:26</u>
TIME(S) OF ANALYSIS FROM: <u>13:13</u>	EPA SAMPLE NO.
TO: <u>16:51</u>	(STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		PROM	TO					
alpha-BHC	2.11	2.05	2.18	10849300	2.15	10479300	Y	3.4
beta-BHC	2.23	2.16	2.30	4644300	2.27	4761200	Y	2.5
delta-BHC	2.49	2.42	2.57	9290600	2.53	9473900	Y	2.0
gamma-BHC	2.43	2.35	2.50	11550476				
Heptachlor	3.72	3.61	3.83	8798676				
Aldrin	4.53	4.39	4.67	10629400				
Hept. epoxide	5.42	5.26	5.58	9444162	5.48	9081038	Y	3.8
Endosulfan I	6.65	6.45	6.85	17709636				
Dieldrin	7.69	7.46	7.92	8965376				
4,4'-DDE	7.48	7.25	7.70	8316919	7.53	7848038	Y	5.6
Endrin	8.53	8.27	8.78	3940634	8.59	3633094	Y	7.8
Endosulfan II	8.75	8.48	9.01	7651406				
4,4'-DDD	9.30	9.02	9.58	6979325	9.35	6646750	Y	4.8
Endo.sulfate	10.99	10.66	11.32	2029525	11.05	2313875	Y	14.0
4,4'-DDT	11.92	11.56	12.28	6173991				
Methoxychlor	17.02	16.51	17.53	2010870				
Endrin ketone	13.94	13.52	14.36	6184715	14.00	6649890	Y	7.5
a. Chlordane	6.74	6.53	6.94	9367344	6.80	8959726	Y	4.4
g. Chlordane	6.13	5.95	6.31	8463026				
Toxaphene	10.52	10.21	10.84	130686				
Aroclor-1016	3.27	3.17	3.37	359223				
Aroclor-1221	2.12	2.06	2.19	107485				
Aroclor-1232	3.27	3.17	3.37	139391				
Aroclor-1242	3.27	3.17	3.36	276640				
Aroclor-1248	5.49	5.32	5.65	780431				
Aroclor-1254	10.58	10.26	10.90	706115				
Aroclor-1260	19.12	18.55	19.70	1391336				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101

DATE(S) OF ANALYSIS FROM: <u>11/28/89</u> TO: <u>11/28/89</u>	DATE OF ANALYSIS <u>11/30/89</u>
TIME(S) OF ANALYSIS FROM: <u>13:13</u> TO: <u>16:51</u>	TIME OF ANALYSIS <u>18:15</u>
	EPA SAMPLE NO. _____
	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.11	2.05	2.18	10849300				
beta-BHC	2.23	2.16	2.30	4644300				
delta-BHC	2.49	2.42	2.57	9290600				
gamma-BHC	2.43	2.35	2.50	11550476	2.50	11494826	Y	0.5
Heptachlor	3.72	3.61	3.83	8798676	3.82	8619200	Y	2.0
Aldrin	4.53	4.39	4.67	10629400	4.65	10484488	Y	1.4
Hept. epoxide	5.42	5.26	5.58	9444162				
Endosulfan I	6.65	6.45	6.85	17709636	6.80	17563688	Y	0.8
Dieldrin	7.69	7.46	7.92	8965376	7.85	8865026	Y	1.1
4,4'-DDE	7.48	7.25	7.70	8316919				
Endrin	8.53	8.27	8.78	3940634				
Endosulfan II	8.75	8.48	9.01	7651406	8.92	7751613	Y	1.3
4,4'-DDD	9.30	9.02	9.58	6979325				
Endo.sulfate	10.99	10.66	11.32	2029525				
4,4'-DDT	11.92	11.56	12.28	6173991	12.13	5688258	Y	7.9
Methoxychlor	17.02	16.51	17.53	2010870	17.25	2082340	Y	3.6
Endrin ketone	13.94	13.52	14.36	6184715				
a. Chlordane	6.74	6.53	6.94	9367344				
g. Chlordane	6.13	5.95	6.31	8463026	6.28	8397076	Y	0.8
Toxaphene	10.52	10.21	10.84	130686				
Aroclor-1016	3.27	3.17	3.37	359223				
Aroclor-1221	2.12	2.06	2.19	107485				
Aroclor-1232	3.27	3.17	3.37	139391				
Aroclor-1242	3.27	3.17	3.36	276640				
Aroclor-1248	5.49	5.32	5.65	780431				
Aroclor-1254	10.58	10.26	10.90	706115				
Aroclor-1260	19.12	18.55	19.70	1391336				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-881)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101

DATE(S) OF FROM: <u>11/28/89</u>	DATE OF ANALYSIS <u>12/01/89</u>
ANALYSIS TO: <u>11/28/89</u>	TIME OF ANALYSIS <u>00:11</u>
TIME(S) OF FROM: <u>13:13</u>	EPA SAMPLE NO.
ANALYSIS TO: <u>16:51</u>	(STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.11	2.05	2.18	10849300	2.15	10338500	Y	4.7
beta-BHC	2.23	2.16	2.30	4644300	2.27	4819800	Y	3.8
delta-BHC	2.49	2.42	2.57	9290600	2.54	9412300	Y	1.3
gamma-BHC	2.43	2.35	2.50	11550476				
Heptachlor	3.72	3.61	3.83	8798676				
Aldrin	4.53	4.39	4.67	10629400				
Hept. epoxide	5.42	5.26	5.58	9444162	5.49	9270838	Y	1.8
Endosulfan I	6.65	6.45	6.85	17709636				
Dieldrin	7.69	7.46	7.92	8965376				
4,4'-DDE	7.48	7.25	7.70	8316919	7.54	8002294	Y	3.8
Endrin	8.53	8.27	8.78	3940634	8.61	3233112	N	18.0
Endosulfan II	8.75	8.48	9.01	7651406				
4,4'-DDD	9.30	9.02	9.58	6979325	9.37	1960612	N	71.9
Endo.sulfate	10.99	10.66	11.32	2029525	11.07	2157619	Y	6.3
4,4'-DDT	11.92	11.56	12.28	6173991				
Methoxychlor	17.02	16.51	17.53	2010870				
Endrin ketone	13.94	13.52	14.36	6184715	14.03	6489275	Y	4.9
a. Chlordane	6.74	6.53	6.94	9367344	6.81	9186594	Y	1.9
g. Chlordane	6.13	5.95	6.31	8463026				
Toxaphene	10.52	10.21	10.84	130686				
Aroclor-1016	3.27	3.17	3.37	359223				
Aroclor-1221	2.12	2.06	2.19	107485				
Aroclor-1232	3.27	3.17	3.37	139391				
Aroclor-1242	3.27	3.17	3.36	276640				
Aroclor-1248	5.49	5.32	5.65	780431				
Aroclor-1254	10.58	10.26	10.90	706115				
Aroclor-1260	19.12	18.55	19.70	1391336				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: OV-101

DATE(S) OF ANALYSIS	FROM: <u>11/28/89</u>	DATE OF ANALYSIS	<u>12/01/89</u>
TIME(S) OF ANALYSIS	TO: <u>11/28/89</u>	TIME OF ANALYSIS	<u>00:38</u>
DATE(S) OF ANALYSIS	FROM: <u>13:13</u>	EPA SAMPLE NO.	
TIME(S) OF ANALYSIS	TO: <u>16:51</u>	(STANDARD)	<u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.11	2.05	2.18	10849300				
beta-BHC	2.23	2.16	2.30	4644300				
delta-BHC	2.49	2.42	2.57	9290600				
gamma-BHC	2.43	2.35	2.50	11550476	2.47	11537350	Y	0.1
Heptachlor	3.72	3.61	3.83	8798676	3.78	8841350	Y	0.5
Aldrin	4.53	4.39	4.67	10629400	4.60	10477038	Y	1.4
Hept. epoxide	5.42	5.26	5.58	9444162				
Endosulfan I	6.65	6.45	6.85	17709636	6.72	17724800	Y	6.1
Dieldrin	7.69	7.46	7.92	8965376	7.77	9001688	Y	0.4
4,4'-DDE	7.48	7.25	7.70	8316919				
Endrin	8.53	8.27	8.78	3940634				
Endosulfan II	8.75	8.48	9.01	7651405	8.82	7898156	Y	3.2
4,4'-DDD	9.30	9.02	9.58	6979325				
Endo.sulfate	10.99	10.66	11.32	2029525				
4,4'-DDT	11.92	11.56	12.28	6173991	11.99	5746600	Y	6.9
Methoxychlor	17.02	16.51	17.53	2010870	17.05	2144095	Y	6.6
Endrin ketone	13.94	13.52	14.36	6184715				
a. Chlordane	6.74	6.53	6.94	9367344				
g. Chlordane	6.13	5.95	6.31	8463026	6.20	8288400	Y	2.1
Toxaphene	10.52	10.21	10.84	130686				
Aroclor-1016	3.27	3.17	3.37	359223				
Aroclor-1221	2.12	2.06	2.19	107485				
Aroclor-1232	3.27	3.17	3.37	139391				
Aroclor-1242	3.27	3.17	3.36	276640				
Aroclor-1248	5.49	5.32	5.65	780431				
Aroclor-1254	10.58	10.26	10.90	706115				
Aroclor-1260	19.12	18.55	19.70	1391336				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

page 2 of 2

FORM IX PEST

8/87 Rev.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: GV-101

DATE(S) OF ANALYSIS FROM: <u>12/01/89</u>	DATE OF ANALYSIS <u>12/02/89</u>
TO: <u>12/01/89</u>	TIME OF ANALYSIS <u>13:21</u>
TIME(S) OF ANALYSIS FROM: <u>14:35</u>	EPA SAMPLE NO.
TO: <u>18:13</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.10	2.06	2.15	9966700				
beta-BHC	2.22	2.18	2.27	4719400				
delta-BHC	2.48	2.43	2.53	9349000				
gamma-BHC	2.42	2.37	2.46	10845462	2.45	11580076	Y	6.8
Heptachlor	3.70	3.62	3.77	8326288	3.74	8834838	Y	6.1
Aldrin	4.49	4.40	4.58	9849462	4.55	10623550	Y	7.9
Hept. epoxide	5.37	5.26	5.47	9069626				
Endosulfan I	6.57	6.44	6.71	16619850	6.66	17966764	Y	8.1
Dieldrin	7.59	7.44	7.75	8537662	7.70	9152926	Y	7.2
4,4'-DDE	7.37	7.23	7.52	7772988				
Endrin	8.42	8.25	8.58	3333125				
Endosulfan II	8.63	8.46	8.80	7414669	8.75	7930881	Y	7.0
4,4'-DDD	9.16	8.98	9.34	1968731				
Endo.sulfate	10.83	10.61	11.04	2105269				
4,4'-DDT	11.73	11.49	11.96	5433833	11.89	5801275	Y	6.8
Methoxychlor	16.71	16.38	17.05	2008995	16.94	2096195	Y	4.3
Endrin ketone	13.72	13.45	14.00	6337965				
a. Chlordane	6.66	6.53	6.79	8933862				
g. Chlordane	6.07	5.95	6.19	7903925	6.15	8594626	Y	8.7
Toxaphene	10.37	10.16	10.57	125858				
Aroclor-1016	3.24	3.18	3.31	353537				
Aroclor-1221	2.11	2.07	2.16	102051				
Aroclor-1232	2.11	2.07	2.16	118172				
Aroclor-1242	3.24	3.18	3.31	275068				
Aroclor-1248	5.44	5.33	5.55	769381				
Aroclor-1254	10.44	10.23	10.65	701338				
Aroclor-1260	18.76	18.39	19.14	1387106				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REYS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: OV-101

DATE(S) OF ANALYSIS FROM: <u>12/01/89</u> TO: <u>12/01/89</u>	DATE OF ANALYSIS <u>12/02/89</u>
TIME(S) OF ANALYSIS FROM: <u>14:35</u> TO: <u>18:13</u>	TIME OF ANALYSIS <u>20:11</u>
	EPA SAMPLE NO. (STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.10	2.06	2.15	9966700	2.12	9852800	Y	1.1
beta-BHC	2.22	2.18	2.27	4719400	2.24	4860900	Y	3.0
delta-BHC	2.48	2.43	2.53	9349000	2.50	9628100	Y	3.0
gamma-BHC	2.42	2.37	2.46	10845462				
Heptachlor	3.70	3.62	3.77	8326288				
Aldrin	4.49	4.40	4.58	9849462				
Hept. epoxide	5.37	5.26	5.47	9069626	5.41	9625276	Y	6.1
Endosulfan I	6.57	6.44	6.71	16619850				
Dieldrin	7.59	7.44	7.75	8537662				
4,4'-DDE	7.37	7.23	7.52	7772988	7.44	7955469	Y	2.3
Endrin	8.42	8.25	8.58	3333125	8.49	2953506	Y	11.4
Endosulfan II	8.63	8.46	8.80	7414669				
4,4'-DDD	9.16	8.98	9.34	1968731	9.24	1885491	Y	4.2
Endo.sulfate	10.83	10.61	11.04	2105269	10.92	2068144	Y	1.8
4,4'-DDT	11.73	11.49	11.96	5433833				
Methoxychlor	16.71	16.38	17.05	2008995				
Endrin ketone	13.72	13.45	14.00	6337965	13.84	6536020	Y	3.1
a. Chlordane	6.66	6.53	6.79	8933862	6.72	9274112	Y	3.8
g. Chlordane	6.07	5.95	6.19	7903925				
Toxaphene	10.37	10.16	10.57	125858				
Aroclor-1016	3.24	3.18	3.31	353537				
Aroclor-1221	2.11	2.07	2.16	102051				
Aroclor-1232	2.11	2.07	2.16	118172				
Aroclor-1242	3.24	3.18	3.31	275068				
Aroclor-1248	5.44	5.33	5.55	769381				
Aroclor-1254	10.44	10.23	10.65	701338				
Aroclor-1260	18.76	18.39	19.14	1387106				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101

DATE(S) OF FROM: <u>12/01/89</u>	DATE OF ANALYSIS <u>12/04/89</u>
ANALYSIS TO: <u>12/01/89</u>	TIME OF ANALYSIS <u>11:10</u>
TIME(S) OF FROM: <u>14:35</u>	EPA SAMPLE NO.
ANALYSIS TO: <u>18:13</u>	(STANDARD) <u>INDA</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.10	2.06	2.15	9966700				
beta-BHC	2.22	2.18	2.27	4719400				
delta-BHC	2.48	2.43	2.53	9349000				
gamma-BHC	2.42	2.37	2.46	10845462	2.44	11758888	Y	8.4
Heptachlor	3.70	3.62	3.77	8326288	3.74	8626412	Y	3.6
Aldrin	4.49	4.40	4.58	9849462	4.54	10774788	Y	9.4
Hept. epoxide	5.37	5.26	5.47	9069626				
Endosulfan I	6.57	6.44	6.71	16619850	6.65	18137212	Y	9.1
Dieldrin	7.59	7.44	7.75	8537662	7.68	9291188	Y	8.8
4,4'-DDE	7.37	7.23	7.52	7772988				
Endrin	8.42	8.25	8.58	3333125				
Endosulfan II	8.63	8.46	8.80	7414669	8.72	8080306	Y	9.0
4,4'-DDD	9.16	8.98	9.34	1968731				
Endo. sulfate	10.83	10.61	11.04	2105269				
4,4'-DDT	11.73	11.49	11.96	5433833	11.85	5620350	Y	3.4
Methoxychlor	16.71	16.38	17.05	2008995	16.85	1842310	Y	8.3
Endrin ketone	13.72	13.45	14.00	6337965				
a. Chlordane	6.66	6.53	6.79	8933862				
g. Chlordane	6.07	5.95	6.19	7903925	6.13	8628388	Y	9.2
Toxaphene	10.37	10.16	10.57	125858				
Aroclor-1016	3.24	3.18	3.31	353537				
Aroclor-1221	2.11	2.07	2.16	102051				
Aroclor-1232	2.11	2.07	2.16	118172				
Aroclor-1242	3.24	3.18	3.31	275068				
Aroclor-1248	5.44	5.33	5.55	769381				
Aroclor-1254	10.44	10.23	10.65	701338				
Aroclor-1260	18.76	18.39	19.14	1387106				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

9
PESTICIDE/PCB STANDARDS SUMMARY

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 1841D SAS No.: _____ SDG No.: 5
 Instrument ID: 22 GC Column ID: QV-101

DATE(S) OF ANALYSIS FROM: <u>12/01/89</u> TO: <u>12/01/89</u>	DATE OF ANALYSIS <u>12/04/89</u>
TIME(S) OF ANALYSIS FROM: <u>14:35</u> TO: <u>18:13</u>	TIME OF ANALYSIS <u>11:37</u>
	EPA SAMPLE NO. (STANDARD) <u>INDB</u>

COMPOUND	RT	RT WINDOW		CALIBRATION FACTOR	RT	CALIBRATION FACTOR	QNT Y/N	%D
		FROM	TO					
alpha-BHC	2.10	2.06	2.15	9966700	2.13	10005100	Y	0.4
beta-BHC	2.22	2.18	2.27	4719400	2.25	4916000	Y	4.2
delta-BHC	2.48	2.43	2.53	9349000	2.51	9599600	Y	2.7
gamma-BHC	2.42	2.37	2.46	10845462				
Heptachlor	3.70	3.62	3.77	8326288				
Aldrin	4.49	4.40	4.58	9849462				
Hept. epoxide	5.37	5.26	5.47	9069626	5.43	9843850	Y	8.5
Endosulfan I	6.57	6.44	6.71	16619850				
Dieldrin	7.59	7.44	7.75	8537662				
4,4'-DDE	7.37	7.23	7.52	7772988	7.47	7972538	Y	2.6
Endrin	8.42	8.25	8.58	3333125	8.52	2680822	N	19.6
Endosulfan II	8.63	8.46	8.80	7414669				
4,4'-DDD	9.16	8.98	9.34	1968731	9.28	1949362	Y	1.0
Endo. sulfate	10.83	10.61	11.04	2105269	10.97	1845156	Y	12.4
4,4'-DDT	11.73	11.49	11.96	5433833				
Methoxychlor	16.71	16.38	17.05	2008995				
Endrin ketone	13.72	13.45	14.00	6337965	22.78	6490410	Y	2.4
a. Chlordane	6.66	6.53	6.79	8933862	6.74	9447018	Y	5.7
g. Chlordane	6.07	5.95	6.19	7903925				
Toxaphene	10.37	10.16	10.57	125858				
Aroclor-1016	3.24	3.18	3.31	353537				
Aroclor-1221	2.11	2.07	2.16	102051				
Aroclor-1232	2.11	2.07	2.16	118172				
Aroclor-1242	3.24	3.18	3.31	275068				
Aroclor-1248	5.44	5.33	5.55	769381				
Aroclor-1254	10.44	10.23	10.65	701338				
Aroclor-1260	18.76	18.39	19.14	1387106				

Under QNT Y/N: enter Y if quantitation was performed, N if not performed.
 %D must be less than or equal to 15.0% for quantitation, and less than or equal to 20.0% for confirmation.

Note: Determining that no compounds were found above the CRQL is a form of quantitation, and therefore at least one column must meet the 15.0% criteria.

For multicomponent analytes, the single largest peak that is characteristic of the component should be used to establish retention time and %D. Identification of such analytes is based primarily on pattern recognition.

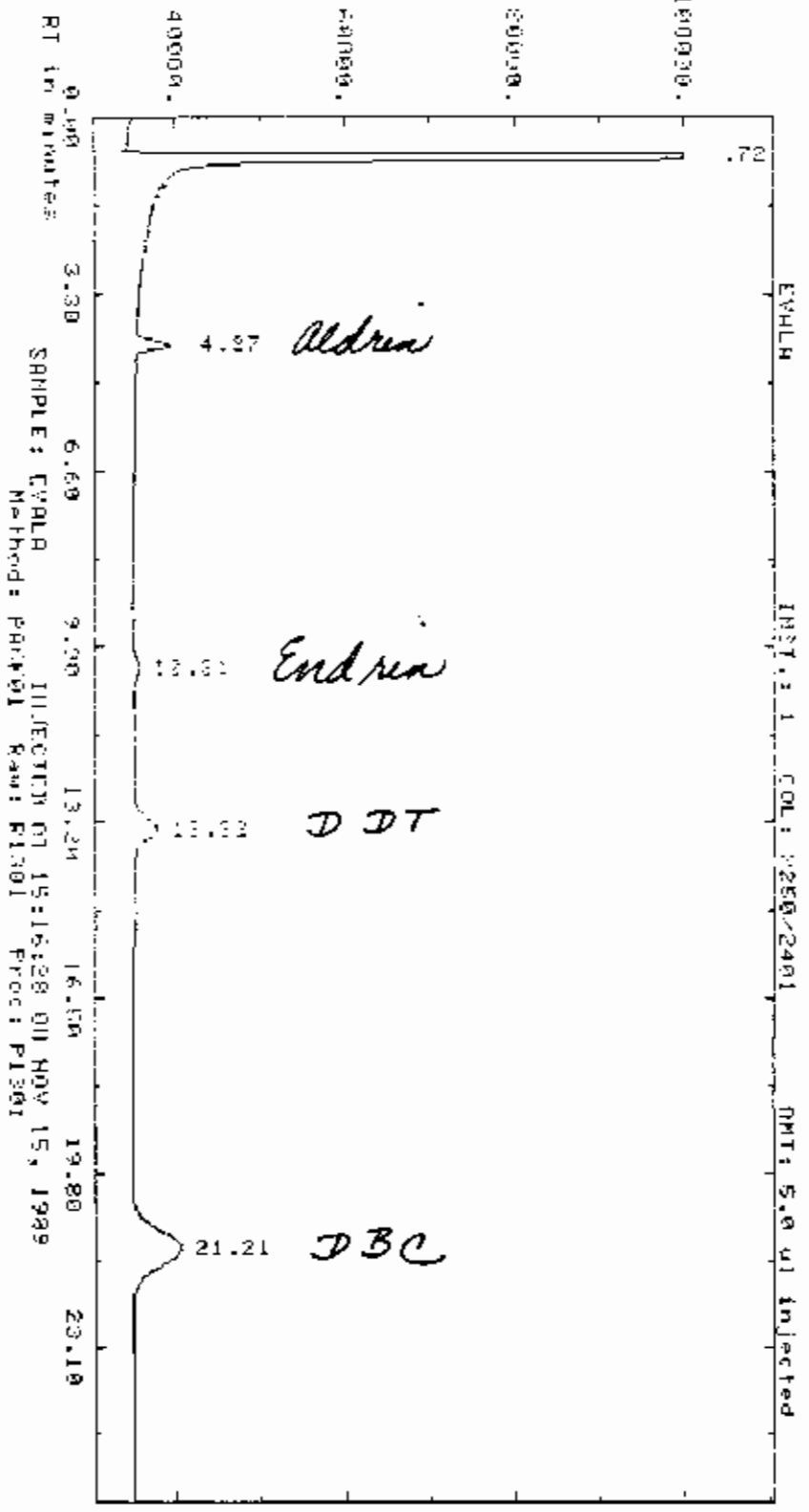
(3) Form X PEST - Pesticide/PCB Identification (only required for positive results)

(4) Pesticide standard chromatograms and data system printouts for all standards to include :

- Evaluation Standard Mixture A
- Evaluation Standard Mixture B
- Evaluation Standard Mixture C
- Individual Standard Mixture A
- Individual Standard Mixture B
- All multi-response Pesticide/PCBs
- All quantitation standards
- A copy of the computer reproduction or strip chart recorder output covering the 100 fold range

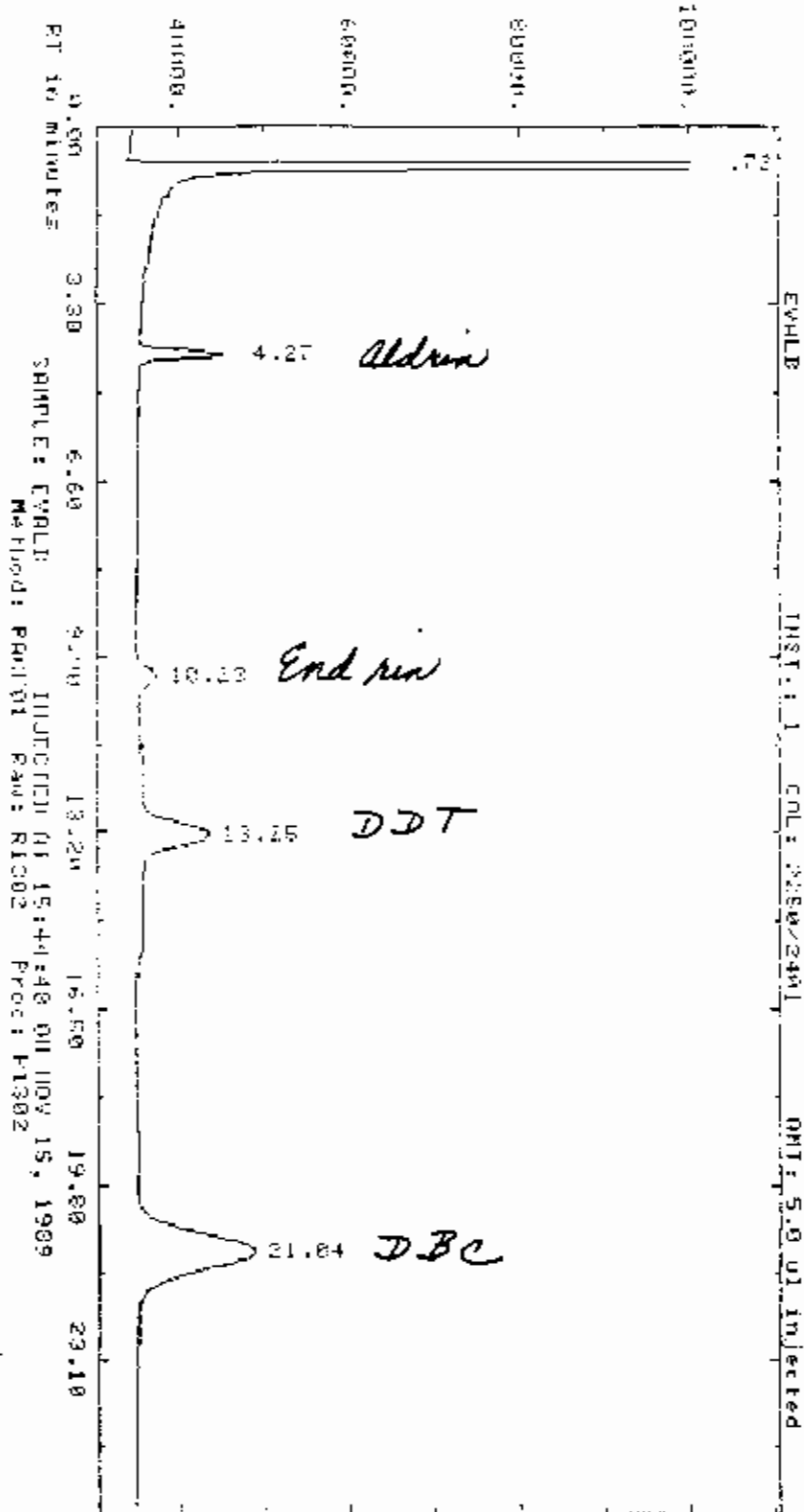
(a) All chromatograms are required to have the following :

- Label all standard peaks for all individual compounds either directly out from the peak or on the printout of retention times if retention times are printed over the peak
- Label the chromatogram for multicomponent standards (i.e., Aroclor, 1242, Toxaphene)
- List total ng injected for each standard
- A printout of retention times and corresponding peak areas must accompany each chromatogram
- Date and time of injection
- GC column identification (by secondary phase)
- GC instrument identification



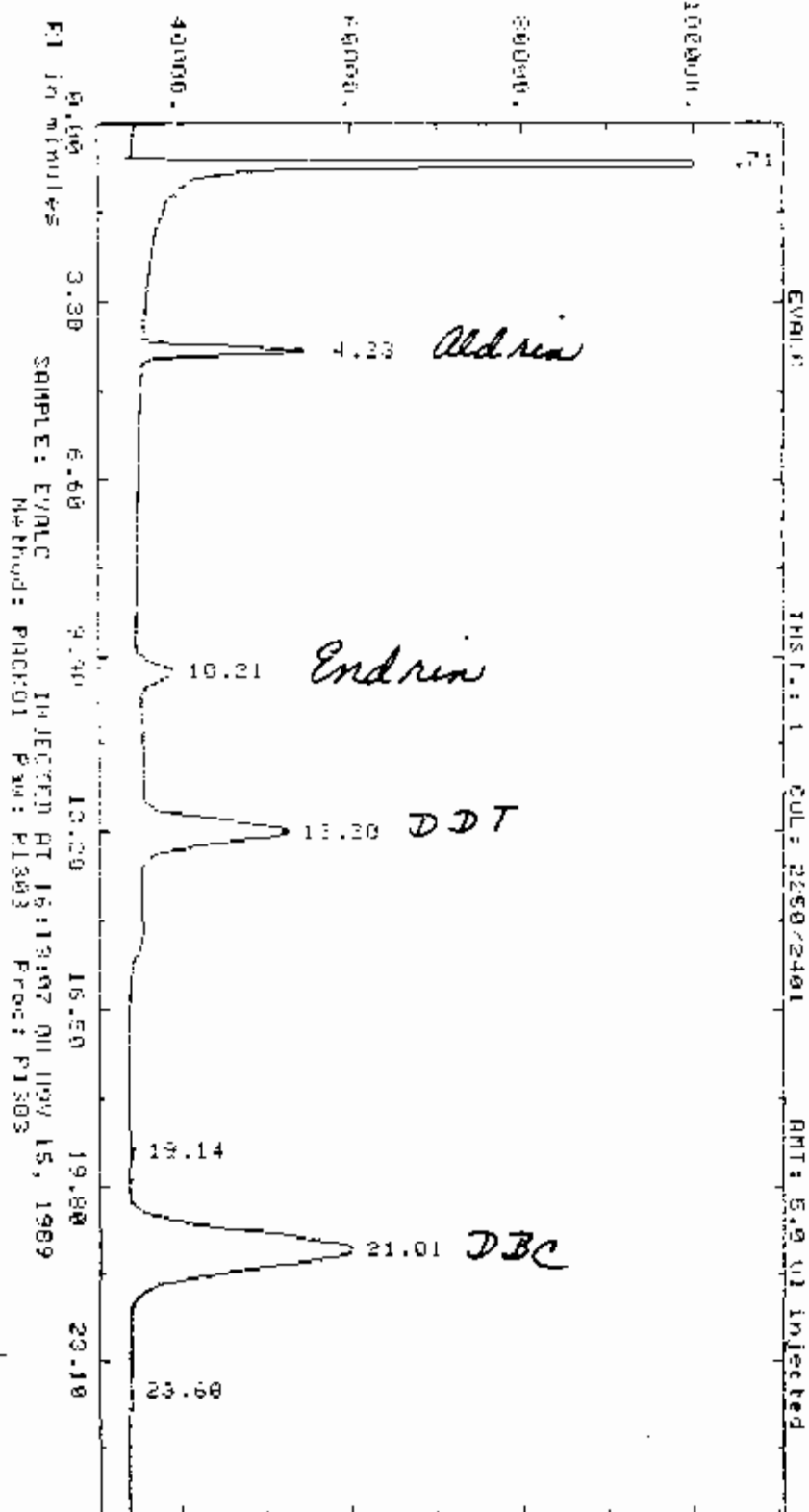
Report: 13845.00 Channel: 1 DATA
 Sample: EUALA Injected at 11:15:28 on Nov 12, 1981
 ZERO Method: PACK01 Seq: SEQ03 Subsq/Samp: 1/1 011: 1
 SL-width MU/Min Delay Name# Batch
 .500 .300 0.00 5000 0000
 Sup-Unk Det ID-Lvl Ref-RW %Rf %Dil-f Iso
 NO 0.00 0 1.30 5.6 100.00 NO
 Actual run time: 26.017 minutes

RT	ITH	Factor	Area	AREA %	Name
.72	0.00	.10000E+01	1988505	75.332	PS
4.27	0.00	.10000E+01	24524	.933	BB
10.31	0.00	.10000E+01	10039	.455	BB
13.32	0.00	.10000E+01	45157	2.053	BB
21.21	0.00	.10000E+01	133551	6.200	MB
Total Area =		2269879	Total AREA % =		130.951 000
Processed data file: F1371			Raw data file: F1371		



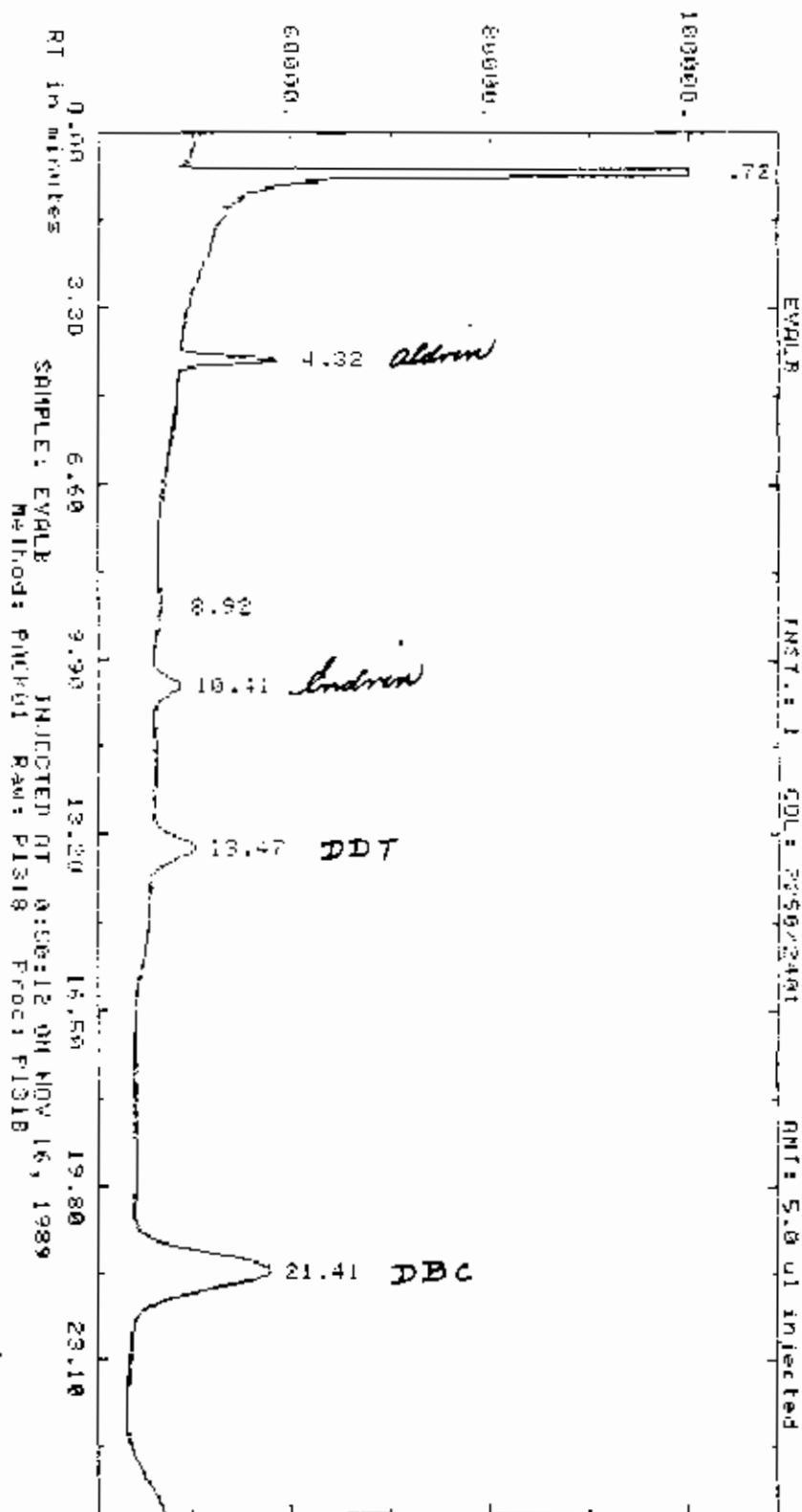
Report: 13646.00 Channel: 1 EVALD
 Sample: EVALB Injected at 15:44:46 On Nov 15, 1989
 ZERO Method: PACK01 Sec: SEQ12 Subseq: Seq. 1/2 btl. 2
 Sl-width MU/Min Delay Min-Ap Bench
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW ZRTW Xdil-f Tsp
 NO 0.00 0 0.30 5.0 100.00 NO
 Actual run time: 26.017 minutes

RT	ITH	Factor	Area	AREA %	Name
7.72	0.00	.10000E+01	2405023	61.731	ES
4.27	0.00	.10000E+01	51254	1.741	ES
10.28	0.00	.10000E+01	25922	1.001	ES
13.25	0.00	.10000E+01	125917	4.275	ES
21.04	0.00	.10000E+01	534621	11.319	ES
Total Area = 2943578			Total Area % = 64.631 680		
Processed data file: P1302			Raw data file: P1302		



Report: 13847 00 Channel: 1 FUALC
 Sample: EVALC Injected at 16-13-07 09 NOV 16, 1967
 ZERO Method: PACK01 Set: SE013 Cased/Samp: 1/3 R11: 3
 SI-Width: 500 MV/Min: .300 Delay: 0.00 Min-A: 5100 Scan Rate
 Sup-Unk: NO gvt ID-Lvl: 0 Ref-R2k: .30 ZRTW: 5.0 X0x1-r: 100.00 Iso: PC
 Actual run time: 36.025 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.71	0.00	.10000E+01	2641497	71.196	DS
4.23	0.00	.10000E+01	23992	2.348	WR
10.26	0.00	.10000E+01	50059	1.349	FR
13.20	0.00	.10000E+01	259827	7.274	DD
19.14	0.00	.10000E+01	4078	.164	SR
21.01	0.00	.10000E+01	672202	17.195	RR
23.69	0.00	.10000E+01	5764	.155	IR
Total Area = 3710172			Total AREA % = 97.64 000		
Processed data File: P1303			Report File: R1303		



Report: 13862.00 Channel: 1 EVALP

Sample: EVALP Injected at 0:50:12 On Nov 16, 1989

ZERO Method: PACK01 Seq: SEQ13 Speed/Bamp: 1/1E S+1: 10

Sl-width MV/Min Delay Min-Sk Bunch
500 .300 0.00 5000 Auto

Sup-Unk DvT ID-Lvl Ref-RW XRW Wdl-F Trg
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 26.025 minutes

Ended not on baseline

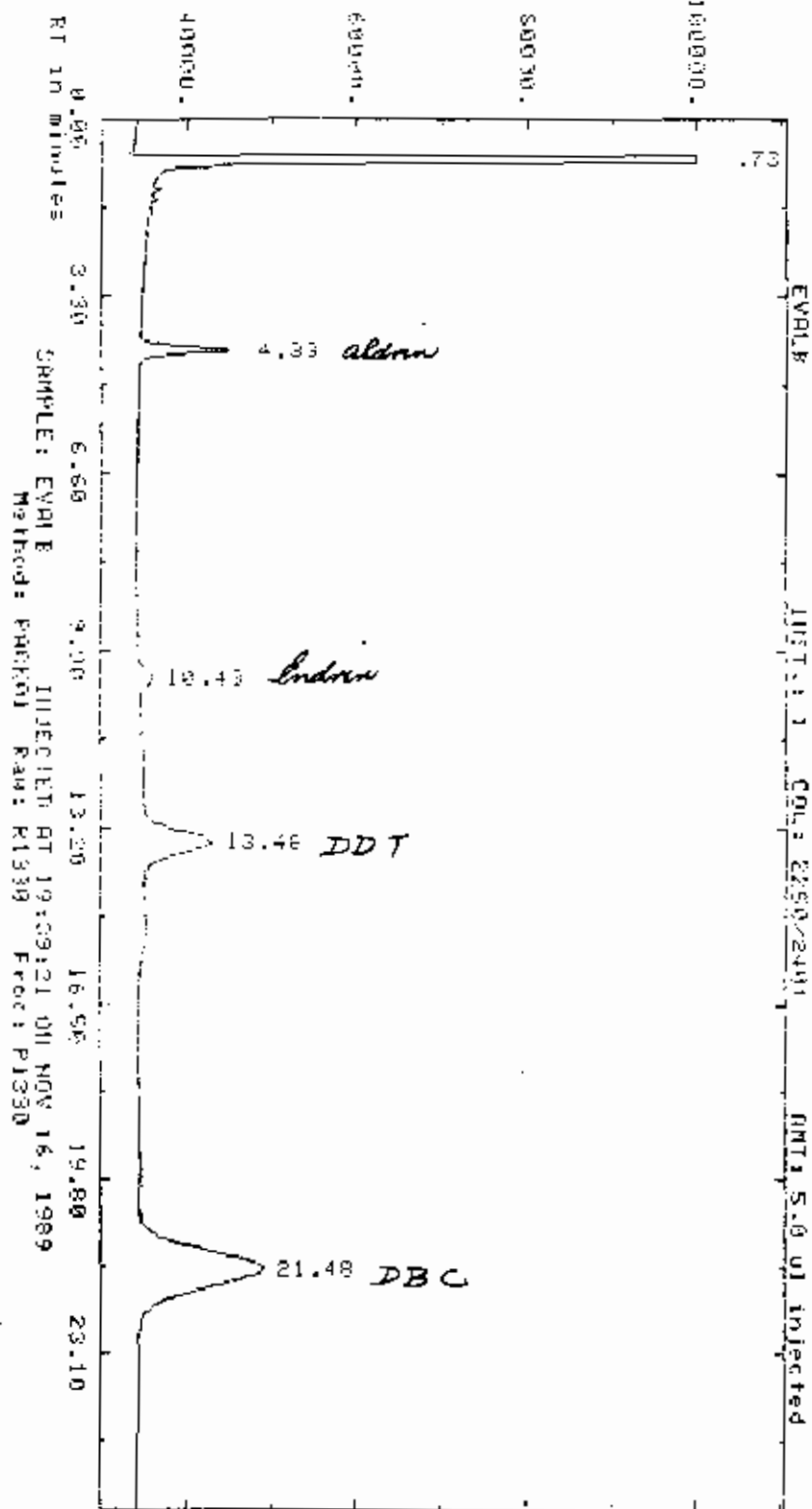
RT	ITM	Factor	Area	AREA %	Name
.72	0.00	.10000E+01	2718867.	94.254	BB
4.32	0.00	.10000E+01	48915.	1.516	BB
8.92	0.00	.10000E+01	14890.	.459	BB
10.41	0.00	.10000E+01	30645.	.956	BB
13.47	0.00	.10000E+01	61453.	1.903	BB
21.41	0.00	.10000E+01	35745.	10.913	BB

Total Area = 3226281.

Total AREA % = 352151.000

Processed data file: P1318

Raw data file: R1318

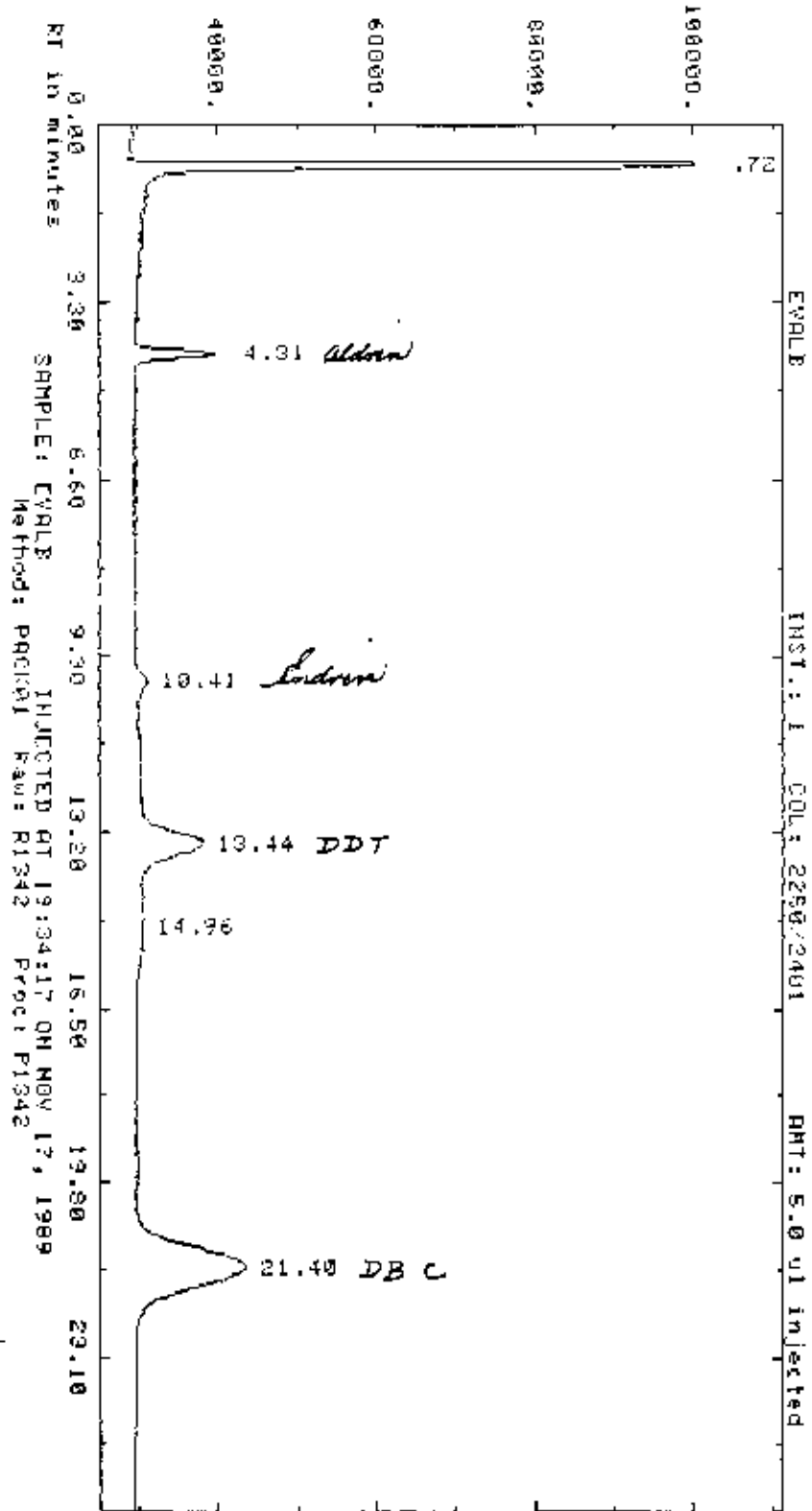


Report: 13074.00 Channel: 1 FID1
 Sample: EVAL3 Injected at 19:29:21 on Nov 15, 1987
 ZERO Method: PACK01 Seq: 50013 SubseqSamp: 1/31 111 30
 SI-width: 0.500 MU/Min 0.00 0.00 0.00 0.00 0.00
 Sup-Unk NO 0.00 10-101 0 0.00 0.00 100 30 100
 No.

Actual run time: 26 009 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
7.73	0.00	.15000E+01	2180423.	85	77.192
4.33	0.00	.10000E+01	54350	88	1.953
10.47	0.00	.10000E+01	10915	39	3.921
13.48	0.00	.10000E+01	12759	88	4.638
21.49	0.00	.10000E+01	374535.	88	13.607
Total Area =		275333%	Total AREA % =		374.034 100
Processed data File: P1340			Raw data File: R1331		

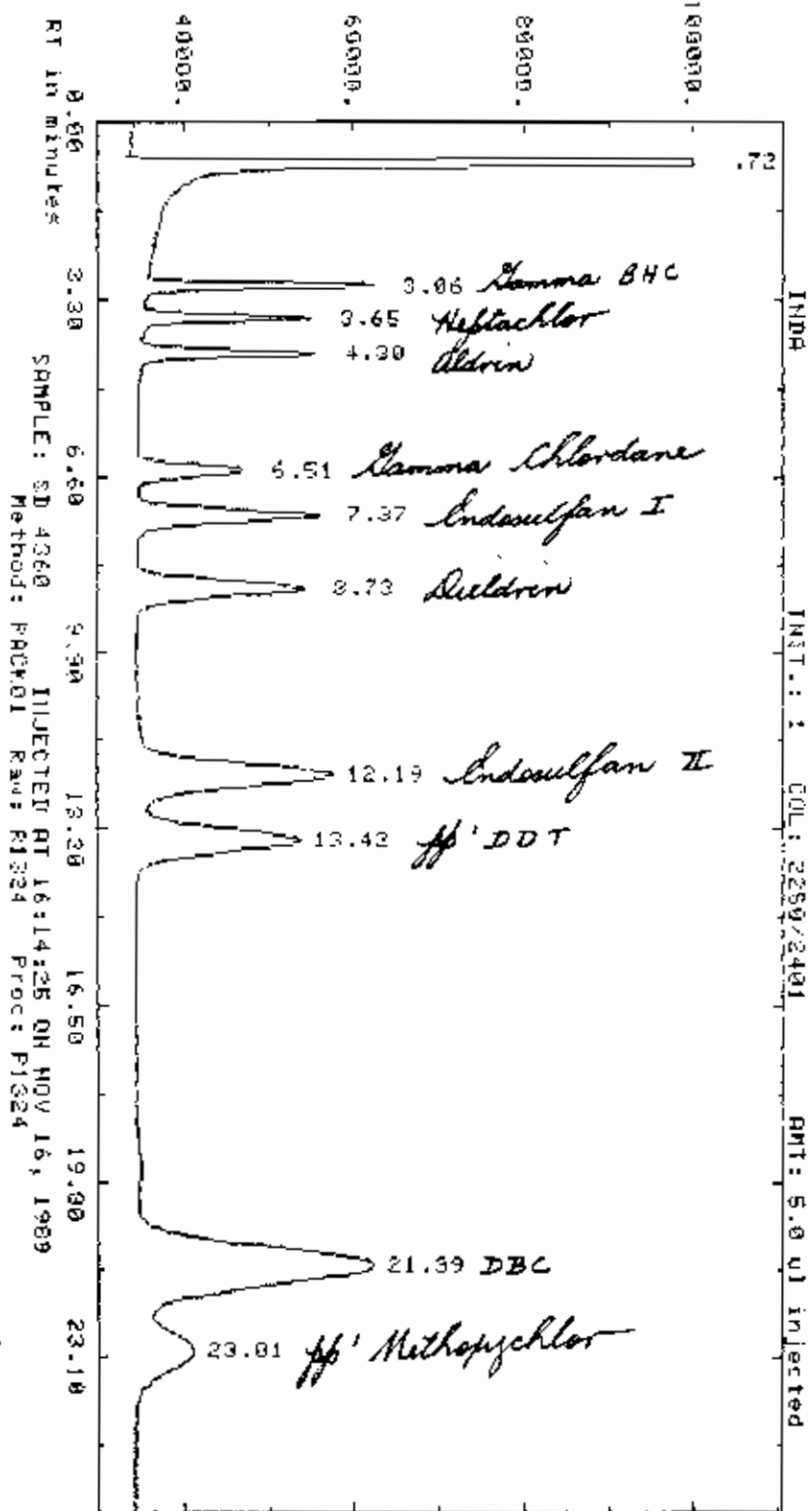


Report: 13887.00 Channel: 1 EVALB
 Sample: EVALB Injected at 19:34:17 ON NOV 17, 1989
 ZERO Method: PACK01 Seq: SEQ13 Subseq/Samp: 1/42 Btl: 42
 Sl-width HV/Min Delay Min-or Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTU XRTU MDil-f Iso
 NO 0.00 0 1.50 5.0 100.00 NO

Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.72	0.00	.10000E+01	2057774.	BS	78.556
4.31	0.00	.10000E+01	52048.	BB	1.987
10.41	0.00	.10000E+01	14584.	BB	.557
13.44	0.00	.10000E+01	127930.	BC	4.884
14.96	0.00	.10000E+01	13098.	BB	.500
21.40	0.00	.10000E+01	354050.	BF	13.516
Total Area = 2619484.			Total AREA % = 354050.000		
Processed data file: P1342			Raw data file: R1342		

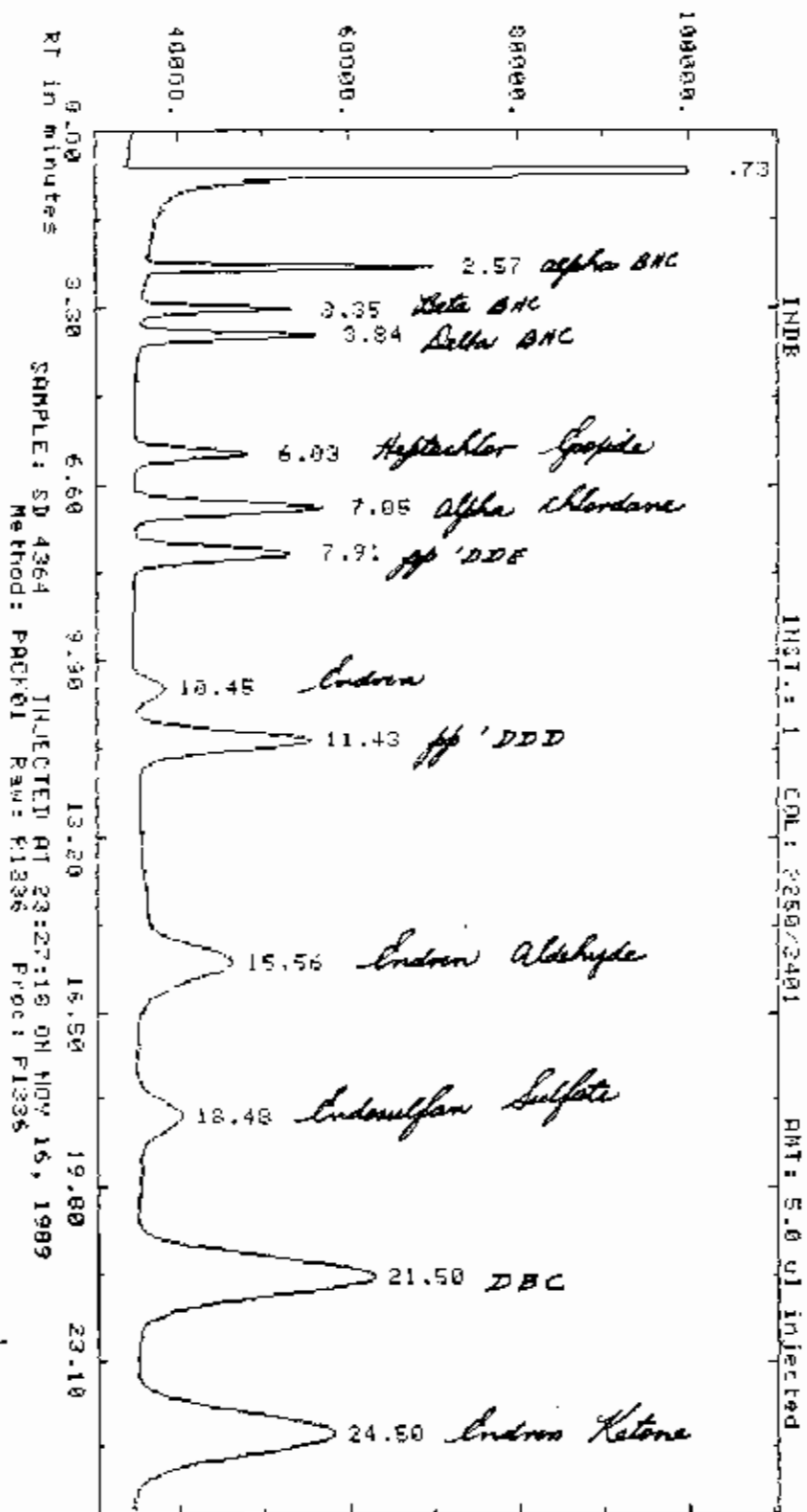
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Report: 13868.00 Channel: 1 INDA
 Sample: SD 4360 Injected at 16:14:25 ON NOV 16, 1987
 ZERO Method: PACK01 Seq: SEQ13 Subsq/Samp: 1/24 Bti: 24
 Sl-width HV/Min Delay Min-Ap Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW ZRTU %Dil-f Iso
 NO 0.00 0 0.30 5.0 100.00 NO
 Actual run time: 26.025 minutes
 Ended not on baseline

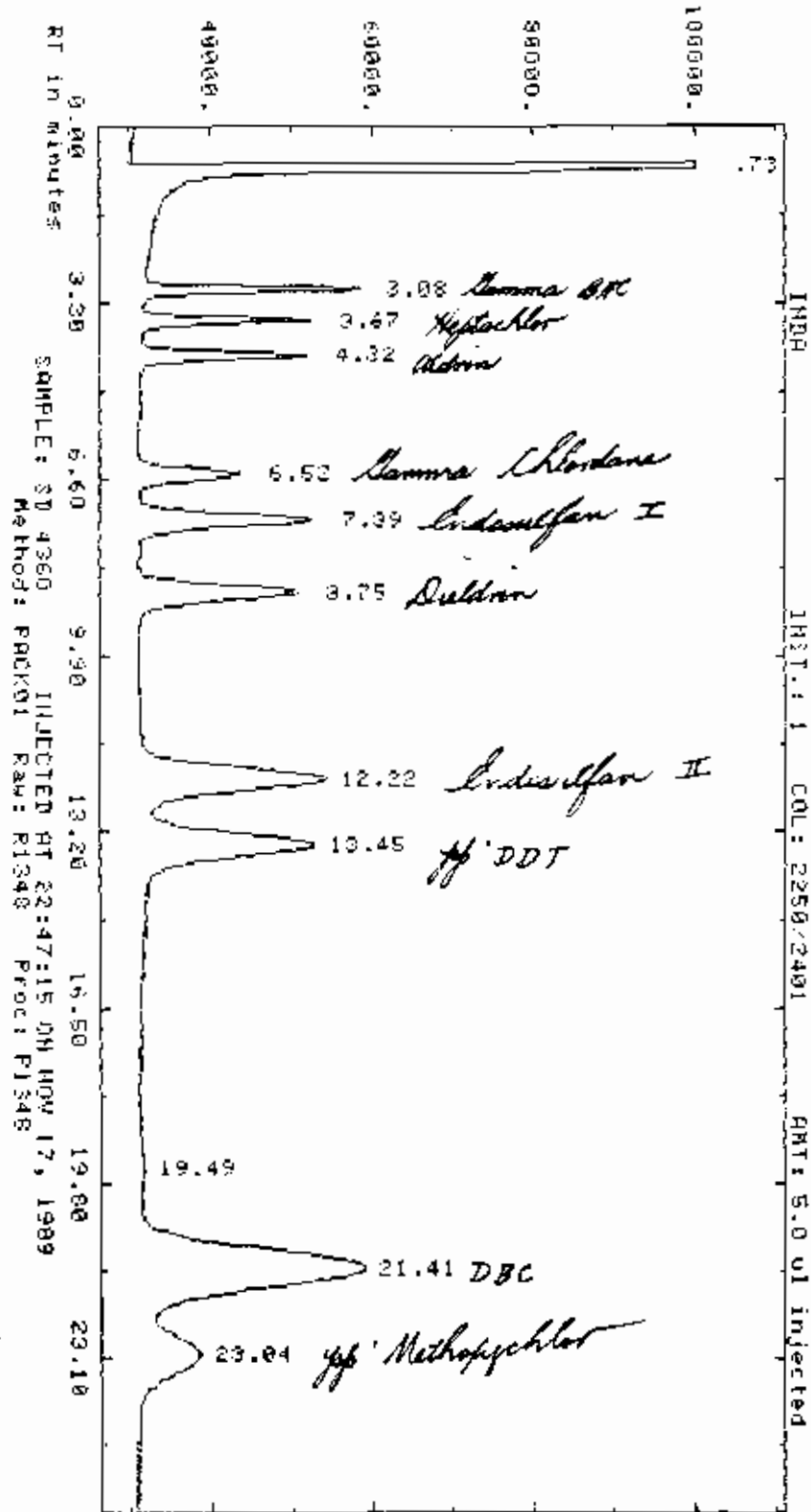
RT	ITH	Factor	Area	AREA %	Name
3.72	0.00	.10000E+01	2736822.	56.819	BB
3.96	0.00	.10000E+01	104824.	2.160	BB
3.85	0.00	.10000E+01	87854.	1.825	BB
4.30	0.00	.10000E+01	104298.	2.208	BB
6.51	0.00	.10000E+01	24681.	1.966	BB
7.37	0.00	.10000E+01	125259.	3.848	BB
8.73	0.00	.10000E+01	201638.	4.188	BB
12.19	0.00	.10000E+01	398986.	6.415	BB
13.42	0.00	.10000E+01	258290.	5.364	BB
21.39	0.00	.10000E+01	842356.	15.341	BB
23.01	0.00	.10000E+01	88904.	1.846	BB

Total Area = 4815815. Total AREA % = 88904.000
 Processed data file: P1324 Raw data file: R1324



Report: 13860.00 Channel: 1 INDE
 Sample: SD 4364 Injected at 23:27:18 ON NOV 16, 1989
 ZERO Method: PACK01 Seq: SC013 Subseq/Samp: 1/36 E+1: 36
 Sl-Width HU/Min Delay Hn-Gr Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-F iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.008 minutes
 Ended not on baseline

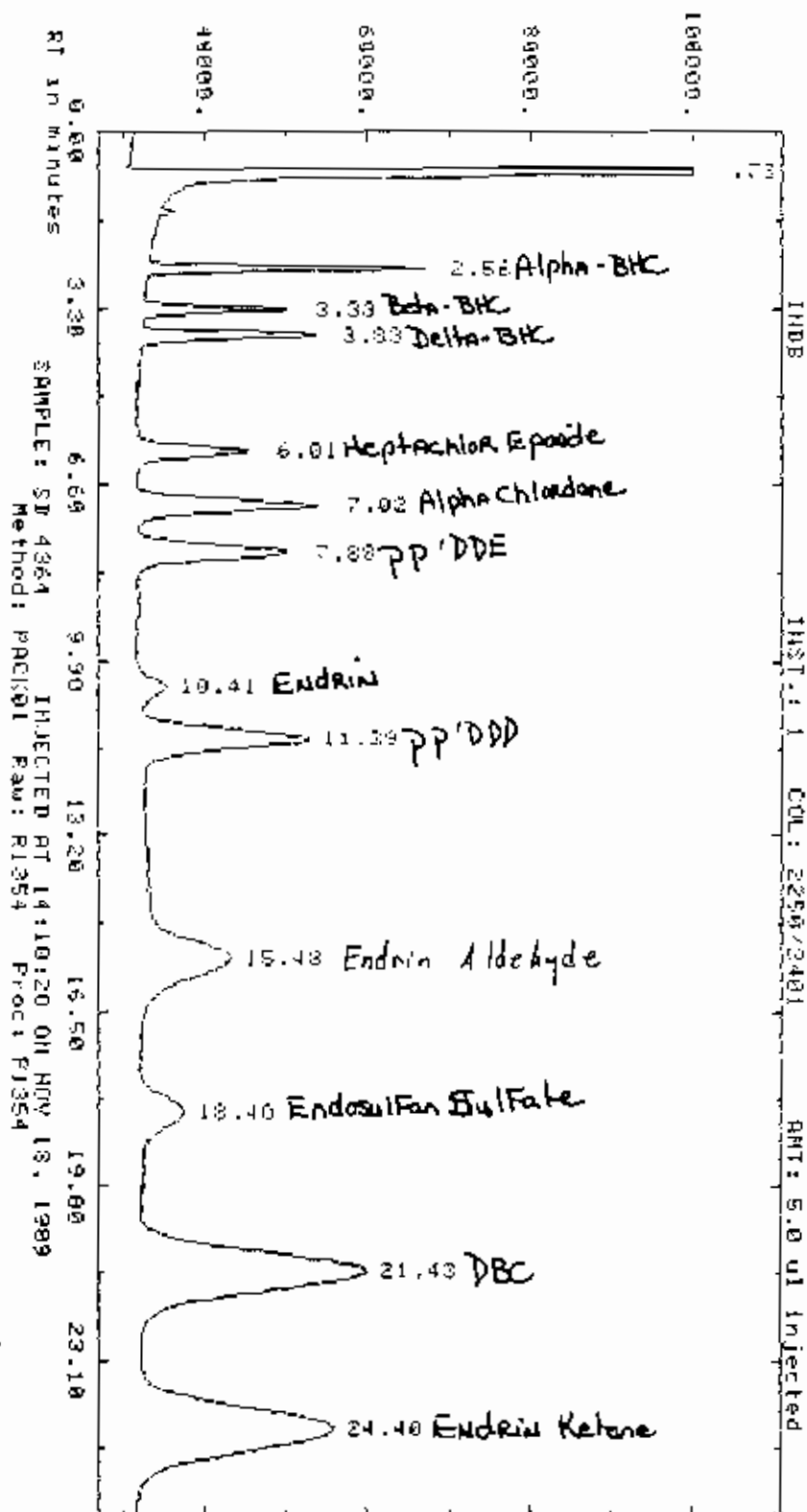
RT	ITM	Factor	Area	AREA %	Name
2.73	0.00	.10000E+01	2664858.	49.621	BB
2.57	0.00	.10000E+01	114211.	2.084	BB
3.35	0.00	.10000E+01	73870.	1.348	DB
3.04	0.00	.10000E+01	99864.	1.818	BB
6.03	0.00	.10000E+01	96831.	1.787	BB
7.05	0.00	.10000E+01	179573.	3.276	BF
7.91	0.00	.10000E+01	167910.	3.100	BB
10.45	0.00	.10000E+01	37211.	.679	BB
11.43	0.00	.10000E+01	266733.	4.867	BB
15.56	0.00	.10000E+01	311054.	5.675	BF
19.48	0.00	.10000E+01	114505.	2.090	BB
21.50	0.00	.10000E+01	694161.	12.665	BB
24.50	0.00	.10000E+01	888224.	16.009	BF
Total Area =			5480886	Total AREA % =	658224.500
Processed data file: P1336				Raw data file: R1336	



Report: 13893.00 Channel: 1 INDA
 Sample: SD 4360 Injected at 22:47:15 ON NOV 17, 1989
 ZERO Method: PACK01 Seq: SEQ13 Subseq/Samp: 1/48 Btl: 48
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Avia
 Svp-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-F Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.017 minutes
 Ended not on baseline

RT	ITH	Factor	Area	NAME	AREA %
.73	0.00	.10000E+01	2606508.	BS	55.198
3.08	0.00	.10000E+01	104543.	BB	2.214
3.67	0.00	.10000E+01	94046.	BB	1.992
4.32	0.00	.10000E+01	108549.	BB	2.266
6.52	0.00	.10000E+01	75243.	BB	1.617
7.39	0.00	.10000E+01	185653.	BB	3.931
8.73	0.00	.10000E+01	200934.	BB	4.256
12.22	0.00	.10000E+01	296206.	BF	6.273
13.45	0.00	.10000E+01	262509.	BF	5.591
19.49	0.00	.10000E+01	7078.	BF	.150
21.41	0.00	.10000E+01	642117.	BB	13.598
23.04	0.00	.10000E+01	100409.	BF	2.126

Total Area = 4722287. Total AREA % = 100409.500
 Processed data file: P1348 Raw data file: R1348



Report: 13910 00 Channel: 1 INDE
 Sample: SD 4364 Injected at 14 10:20 ON NOV 18, 1989
 ZPRD Method: PACK01 Seq: SEQ13 Subsq/Samp: 1/54 Rtl: 54
 Sl-width MV/Min Delay Min-Hr Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-KTY ZRTW ZDil-f Iso
 NO 0.00 0 0.30 5.0 100.00 NO

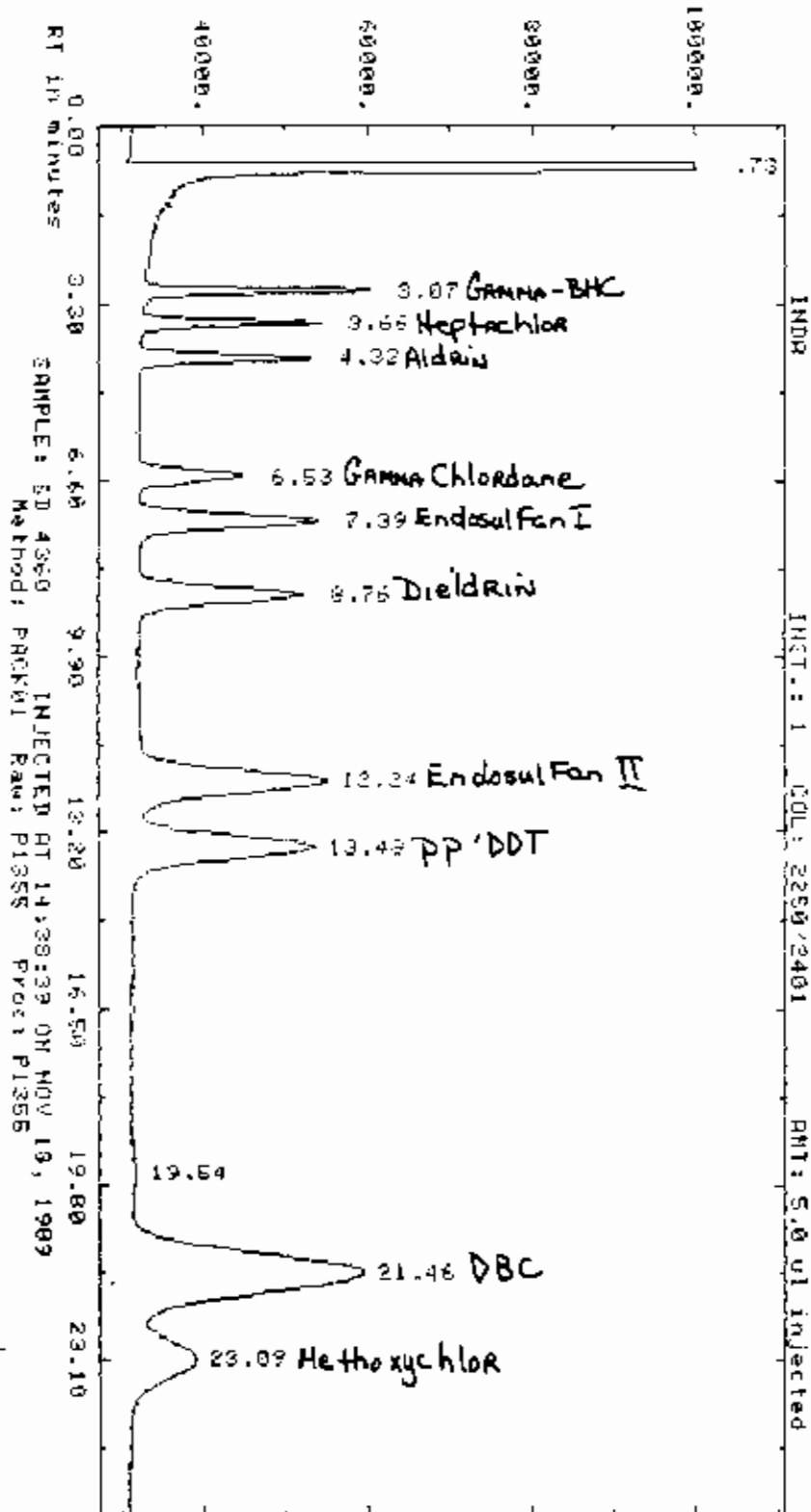
Actual run time: 26.017 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.73	0.00	.10000E+01	2522758.	47.368	BB
2.56	0.00	.10000E+01	114521.	2.144	BB
3.33	0.00	.10000E+01	73737.	1.381	BB
3.83	0.00	.10000E+01	106776.	1.987	BB
6.01	0.00	.10000E+01	97545.	1.826	BB
7.02	0.00	.10000E+01	160130.	3.373	BB
7.88	0.00	.10000E+01	167533.	3.137	BB
10.91	0.00	.10000E+01	33618.	.629	BB
11.39	0.00	.10000E+01	267408.	5.009	BB
15.48	0.00	.10000E+01	312185.	5.844	BB
18.40	0.00	.10000E+01	101923.	1.909	BB
21.43	0.00	.10000E+01	687950.	12.831	BB
24.40	0.00	.10000E+01	673573.	12.612	BB

Total Area = 5340656. Total AREA % = 673573.500

Processed data file: R1354 Raw data file: R1354



Report: 13911.00 Channel: 1 JMDA
 Sample: SD 4340 Injected at 14:33:39 ON NOV 18, 1989
 ZERO Method: PACK01 Seq: SEQ13 Subsq/Samp: 1/55 Ptl: 95
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-F Iso
 NO 0.00 0 30 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.73	0.00	1.0000E+01	2497177.	55.209	BS
3.07	0.00	1.0000E+01	107350.	2.287	BE
3.66	0.00	1.0000E+01	58249.	1.293	BD
4.32	0.00	1.0000E+01	105926.	2.319	BR
6.53	0.00	1.0000E+01	95846.	2.042	DB
7.39	0.00	1.0000E+01	187419.	4.036	ED
8.76	0.00	1.0000E+01	205750.	4.376	EE
12.24	0.00	1.0000E+01	320761.	6.833	EE
13.48	0.00	1.0000E+01	302528.	6.516	EG
19.54	0.00	1.0000E+01	6276.	.134	GI
21.46	0.00	1.0000E+01	553234.	11.918	GS
23.09	0.00	1.0000E+01	105279.	2.242	LT

Total Area = 4623142.

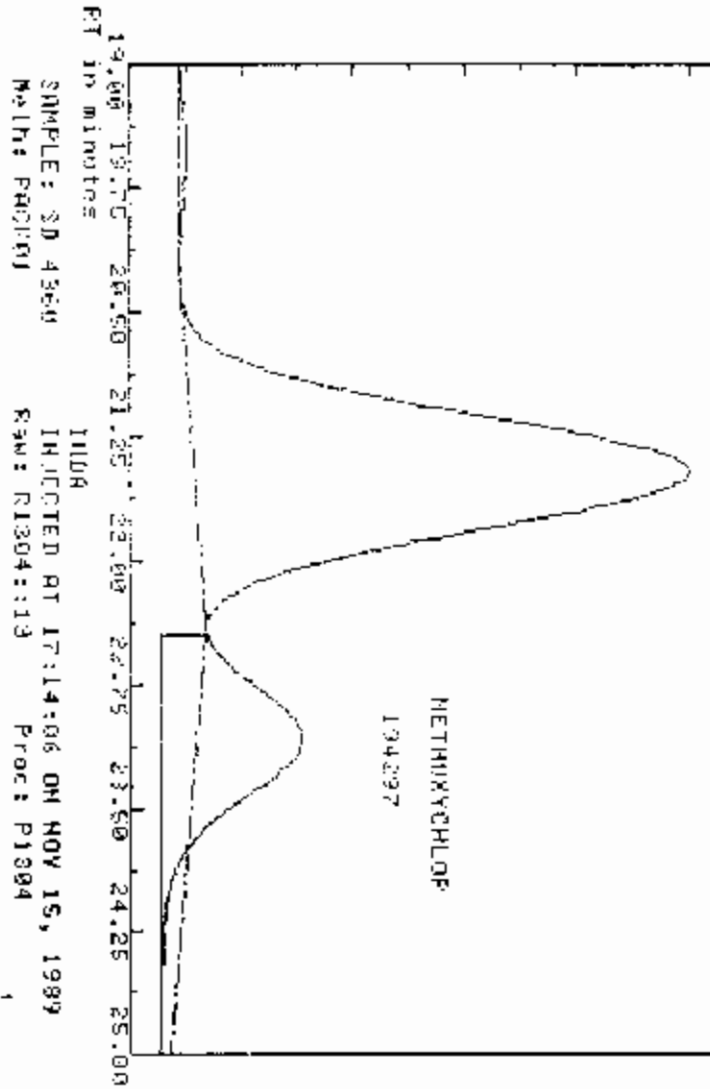
Total AREA % = 100.000

Processed data file: P135E

Raw data file: R135S

AMPLITUDE/1000
Range Normalized

P1304



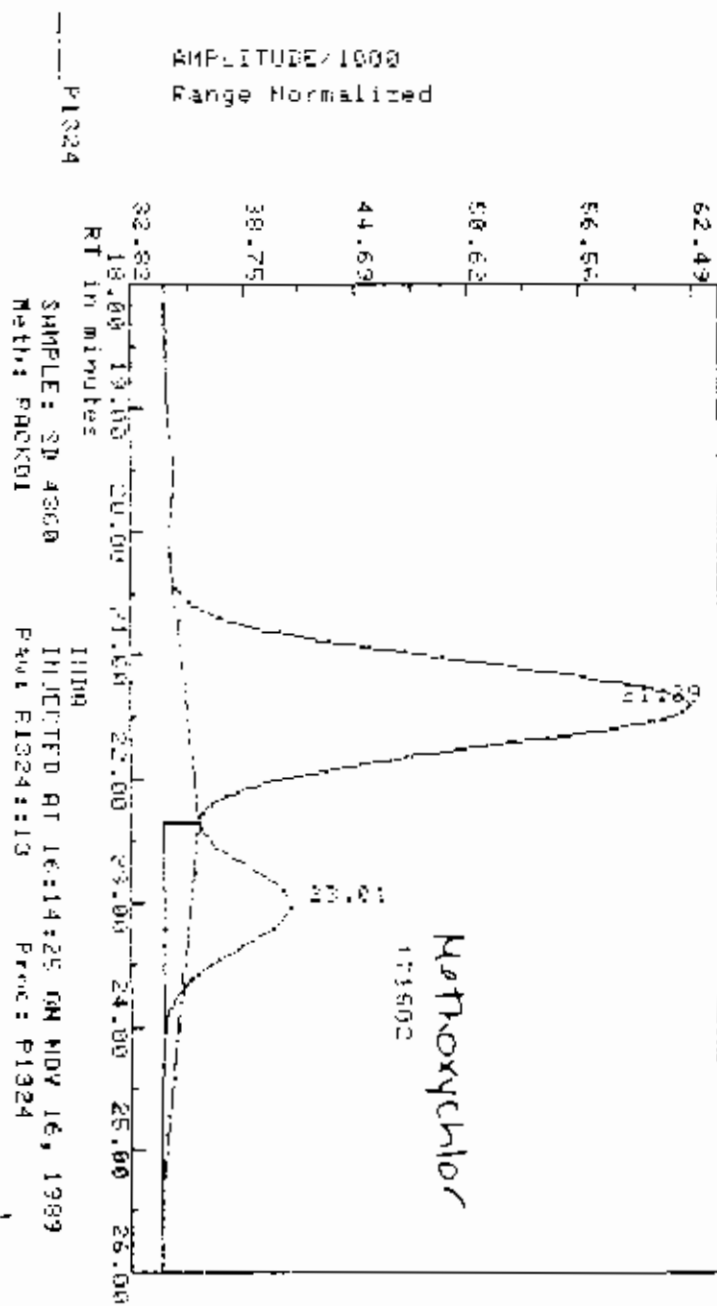
RESULTS OF MANUAL INTEGRATION FROM C1 LDT

RAW DATA FILE: R1304113

INJECTED AT: 17:14:06 ON NOV 15, 1987

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	22.45	24.46	174297	100.0



RESULTS OF MANUAL INTEGRATION FROM CPLET

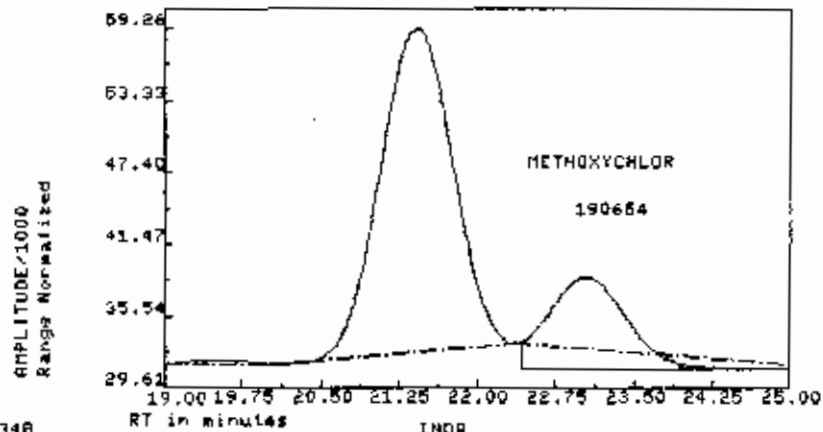
RAW DATA FILE: R1348:13

INJECTED AT: 22:47:15 ON NOV 17, 1989

RESULTS ARE IN AREA PERCENT

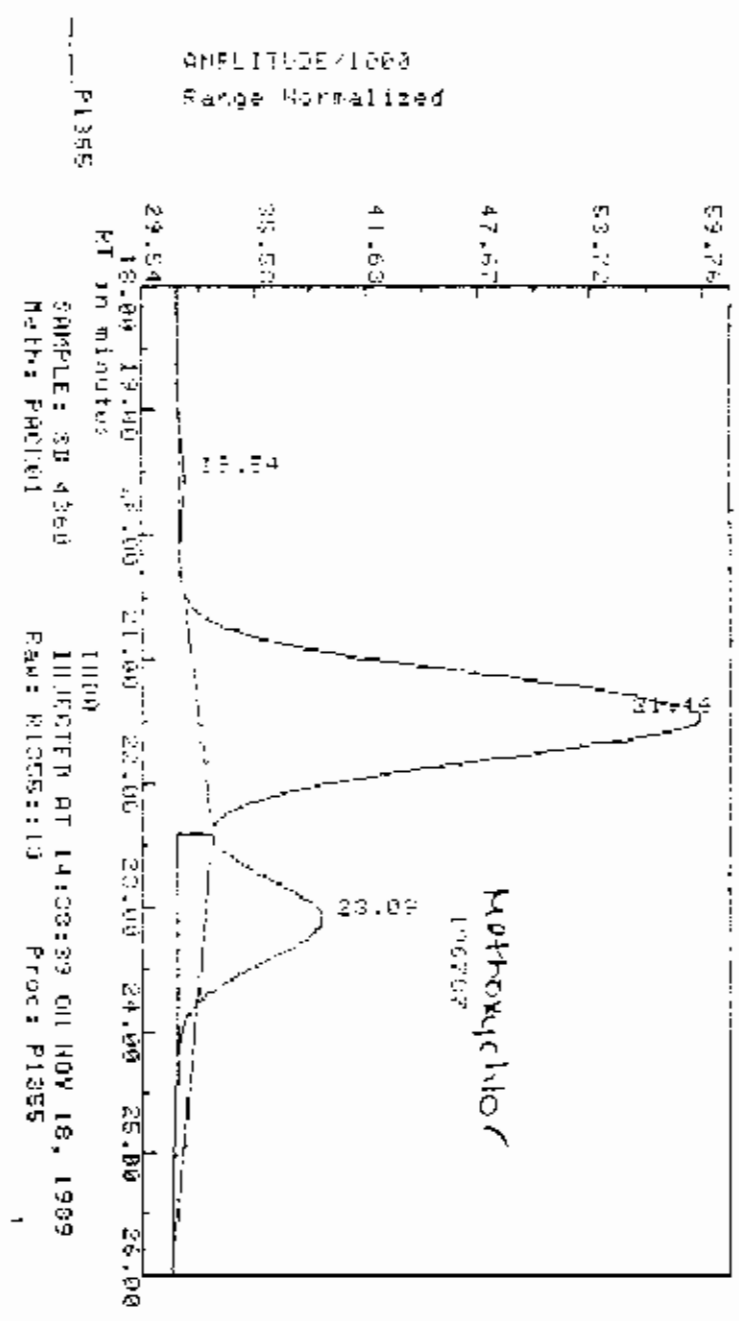
AREA#	TIME1	TIME2	AREA	AREA%
1	22.43	24.17	190654	100.0

Select softkey



P1348

INDR
SAMPLE: SD 4360 INJECTED AT 22:47:15 ON NOV 17, 1989
Meth: PACK01 Raw: R1348:13 Proc: P1348



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STANDARD COMPOUND CONCENTRATIONS

STD INDA	CONC(ug/ml)
Gamma BHC	0.010
Heptachlor	0.010
Aldrin	0.010
Gamma Chlordane	0.010
Endosulfan I	0.010
Dieldrin	0.020
Endosulfan II	0.040
pp' DDT	0.060
pp' Methoxychlor	0.10

STD INDB	CONC(ug/ml)
Alpha BHC	0.010
Beta BHC	0.020
Delta BHC	0.010
Heptachlor Epoxide	0.010
Alpha Chlordane	0.020
pp' DDE	0.020
Endrin	0.040
pp' DDD	0.040
Endrin Aldehyde	0.040
Endosulfan Sulfate	0.040
Endrin Ketone	0.10

MULTICOMPONENT STANDARDS

AR1550	1018	0.30
	1280	0.30
AR1221		1.0
AR1232		0.70
AR1242		0.40
AR1240		0.40
AR1254		0.30
TDXAPH		1.0

EVALUATION MIX STANDARDS

COMPOUND	EVALA	EVALB	EVALC
Aldrin	0.0020	0.0050	0.010
Endrin	0.0000	0.020	0.040
DDT	0.0125	0.030	0.060
DDE	0.020	0.050	0.10

SEQUENCE NAME - SEQ13

CALIB. STD LOT 2250/2401

L.U. REF 15

CHANNEL # 1

DATE STARTED

INSTRUMENT # 01

DATE FINISHED

TYPE(S) OF ANALYSIS PEST

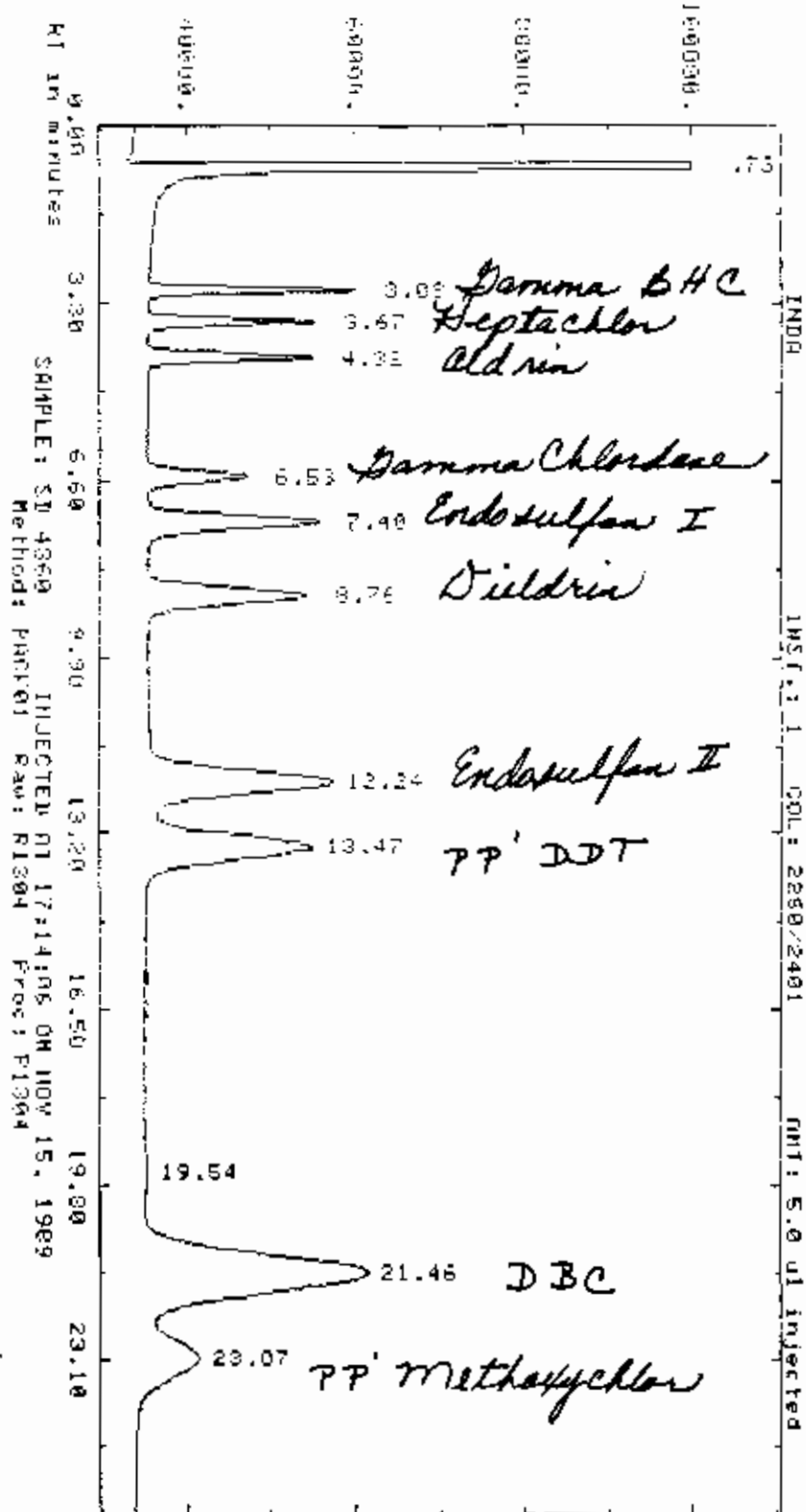
SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
EVALA	01	EVALA		15:16:28 ON NOV 15, 1989
EVALB	02	EVALB		15:44:48 ON NOV 15, 1989
EVALC	03	EVALC		16:13:07 ON NOV 15, 1989
SD 4360	04	INDA		17:14:06 ON NOV 15, 1989
SD 4364	05	INDB		17:42:25 ON NOV 15, 1989
SD TOXA	06	TOXAPH		18:10:45 ON NOV 15, 1989
SD ARMX	07	AR ARMX		18:39:04 ON NOV 15, 1989
SD 1221	08	AR1221		19:41:13 ON NOV 15, 1989
SD 1232	09	AR1232	58	20:09:33 ON NOV 15, 1989
SD 1242	10	AR1242	11-20-89	20:37:52 ON NOV 15, 1989
SD 1248	11	AR1248		21:06:11 ON NOV 15, 1989
SD 1254	12	AR1254		22:00:16 ON NOV 15, 1989
PP 300596 B1	13	13060 BCC24	PBLK51	22:28:35 ON NOV 15, 1989
PP 300287	14	13060 BCC24	BCC24	22:56:55 ON NOV 15, 1989
PP 300298	15	13060 BCC24	BCC25	23:25:15 ON NOV 15, 1989
PP 300300	16	13060 BCC24	BCC26	23:53:34 ON NOV 15, 1989
PP 300301	17	13060 BCC24	BCC27	0:21:53 ON NOV 16, 1989
EVALB	18	EVALB		0:50:12 ON NOV 16, 1989
PP 300303 OR	19	13060 BCC24	BCC28	1:18:32 ON NOV 16, 1989
PP 300304	20	13060 BCC24	BCC29	1:46:51 ON NOV 16, 1989
PP 300306	21	13060 BCC24	BCC30	2:15:10 ON NOV 16, 1989
PP 301960 B1	22	13012 BCW45	PBLK97	15:17:45 ON NOV 16, 1989
PP 301961 B2	23	13012 BCW45	PBLK98	15:46:04 ON NOV 16, 1989
SD 4360	24	INDA		16:14:25 ON NOV 16, 1989
PP298836R2BS	25	13012 BCW45	BS	16:42:45 ON NOV 16, 1989
PP298834R2SS	26	13012 BCW45	BCW46MS	17:11:04 ON NOV 16, 1989
PP298835R2SS	27	13012 BCW45	BCW46MSD	17:39:24 ON NOV 16, 1989
HEXANE	28			18:07:43 ON NOV 16, 1989
CP 301997 B1	29	17147 63	PBLK05	19:11:02 ON NOV 16, 1989
EVALB	30	EVALB		19:39:21 ON NOV 16, 1989
CP 300398 R	31	17247 63	CMW10M1GW	21:05:43 ON NOV 16, 1989
PP 302043 B1	32	18410 1	PBLK01	21:34:02 ON NOV 16, 1989
PP 302044 B2	33	18410 1	PBLK02	22:02:21 ON NOV 16, 1989
PP 301878	34	18410 1	738001-11	22:30:40 ON NOV 16, 1989

SEQUENCE NAME - SEQ13
CHANNEL # 1
INSTRUMENT # 01
TYPE(S) OF ANALYSIS PEST

CALIB. STD LOT 2250/2401
DATE STARTED _____
DATE FINISHED _____

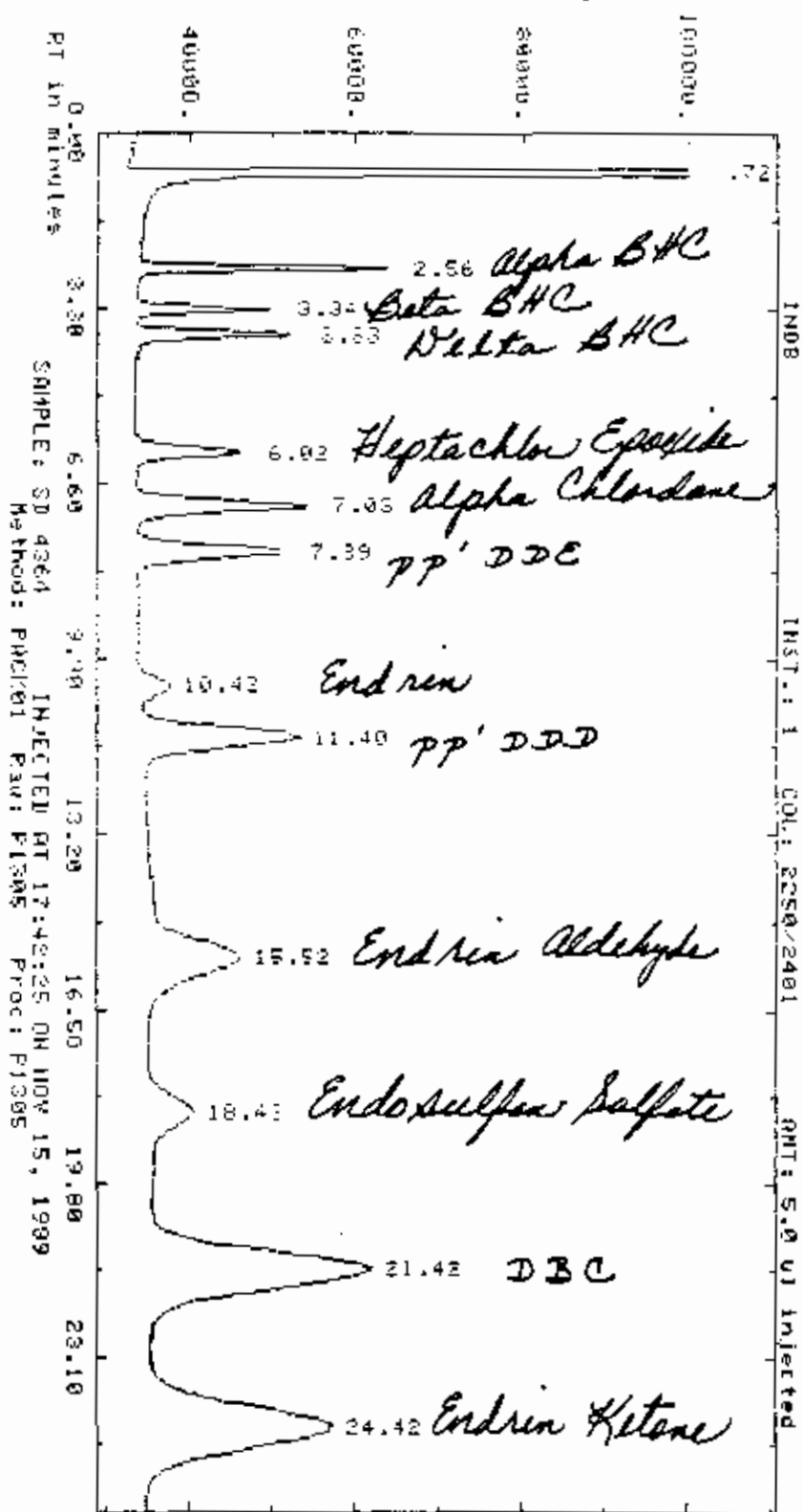
L.U. REP 15

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
PP 301879	35	18410 1	738001-07	22:58:59 ON NOV 16, 1989
SD 4364	36	INDB		23:27:18 ON NOV 16, 1989
PP 301881	37	18410 1	738001-04	0:28:39 ON NOV 17, 1989
PP 301886	38	18410 1	738001-09	0:56:59 ON NOV 17, 1989
PP ALUM BK55	39			1:25:18 ON NOV 17, 1989
PP 302880 B1	40	18410 5	PBLK25	17:49:40 ON NOV 17, 1989
PP 302881 B2	41	18410 5	PBLK26	18:18:01 ON NOV 17, 1989
EVALB	42	EVALB		19:34:17 ON NOV 17, 1989
PP 302150	43	18410 5	738001-15	20:10:56 ON NOV 17, 1989
PP 302154	44	18410 5	738001-16	20:39:16 ON NOV 17, 1989
PP 302155	45	18410 5	738001-22	21:07:35 ON NOV 17, 1989
PP 302157	46	18410 5	738001-25	21:50:37 ON NOV 17, 1989
PP 302166	47	18410 5	738001-26	22:18:56 ON NOV 17, 1989
SD 4360	48	INDA		22:47:15 ON NOV 17, 1989
PP 302168	49	18410 5	738001-21	9:26:43 ON NOV 18, 1989
PP 302172	50	18410 5	738001-17	9:55:02 ON NOV 18, 1989
PP 302173	51	18410 5	738001-18	10:23:22 ON NOV 18, 1989
PP 302174	52	18410 5	738001-13	10:51:42 ON NOV 18, 1989
PP 302175	53	18410 5	738001-14	11:20:01 ON NOV 18, 1989
SD 4364	54	INDB		14:10:20 ON NOV 18, 1989
SD 4360	55	INDA		14:38:39 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989
		18410 5	738001-23	12:44:59 ON NOV 18, 1989



Report: 13848 00 Channel: 1 INDA
 Sample: SD 4360 Injected at 17 14:06 ON NOV 15, 1989
 ZCR0 Method: PACK01 Sec: 5043 Subsq/Comp: 1/4 Pct: 4
 Sl-width MU/Min Delay Min-Ar Run-h
 .500 .300 0 00 5000 Auto
 Sup-Link DvT ID-Lvl Ref-RTW XRTW xvll-f iso
 NQ 0 00 0 .30 5 0 100.00 NO
 Actual run time: 26 017 minutes
 Ended not on baseline

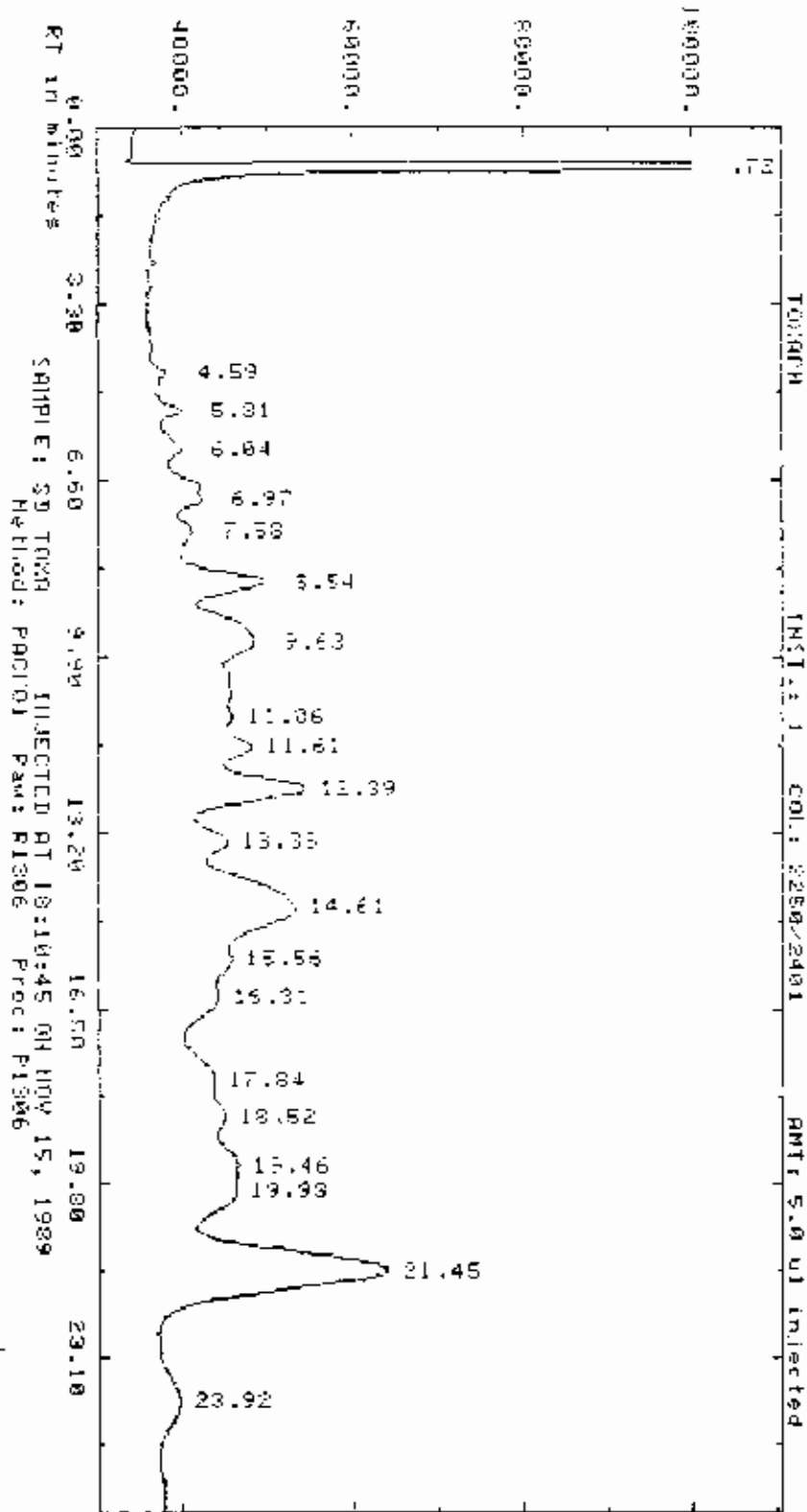
RT	ITH	Factor	Area	AREA %	Name
.73	0.00	.10000E+01	2593634	56.062	B3
3.08	0.00	.10000E+01	97532.	2.168	B1
3.67	0.00	.10000E+01	98896.	1.953	B2
4.32	0.00	.10000E+01	104051.	2.249	B4
6.53	0.00	.10000E+01	96106.	1.944	B5
7.40	0.00	.10000E+01	178243.	3.853	B7
8.76	0.00	.10000E+01	199075.	4.393	B5
12.24	0.00	.10000E+01	211644.	4.579	B8
13.47	0.00	.10000E+01	387516.	8.467	B6
19.54	0.00	.10000E+01	6561.	.142	B8
21.45	0.00	.10000E+01	520575.	11.413	B9
23.07	0.00	.10000E+01	81463.	1.761	B7
Total Area =			4626372.	Total AREA % =	81463.500
Processed data file:			P1384	Raw data file:	R1384



Report: 13849.00 Channel: 1 INDR
 Sample: SD 4364 Injected At 17:42:25 on NOV 13, 1967
 ZERO Method: BACK01 Seq: SEQ13 Subsq/Samp: 17 3 EtL: 5
 Sl-width MU/Min Delay High-Pr Bench
 .500 .300 0.00 5000 0010
 Sup-Link Det ID-Lvl Ref-RTU ZRFW %Dil-F Iso
 NO 0.00 0 Ref-RTU 30 5.6 100.00 NO
 Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
1.72	0.00	.10000E+01	2596636.	49.303	BB
2.56	0.00	.10000E+01	101846.	1.933	BB
3.34	0.00	.10000E+01	46677.	1.259	BB
3.83	0.00	.10000E+01	68866.	1.693	BB
5.02	0.00	.10000E+01	39428.	1.732	BB
7.03	0.00	.10000E+01	165817.	3.175	BB
7.89	0.00	.10000E+01	17880.	3.624	BB
10.42	0.00	.10000E+01	76407.	1.873	BB
11.40	0.00	.10000E+01	257341.	4.882	BB
15.52	0.00	.10000E+01	304124.	5.788	BB
18.43	0.00	.10000E+01	114073.	2.171	BB
21.42	0.00	.10000E+01	438743.	12.537	BB
24.42	0.00	.10000E+01	625082.	11.911	BB

Total Area = 5254542. Total AREA % = 823.02.500
 Processed data file: P1305 Raw data file: R1305



Report: 13850 P0 Channel: 1 TOXAPR

Sample: S0 TOXA Injected at 18:11:45 On NOV 15, 1989

ZERO Method: PACK01 Seq: SEC13 Subseq. Samp: 1/6 S01 0

SI-Width 500 MUZMin .300 Delay 0.00 Min-Ap 5000 S01h Auto

Sup-Link NO DvT 0.00 ID-Lvl 0 Ref-RTW .30 ZRTW 5.0 %Dil-F 100.00 Iso NO

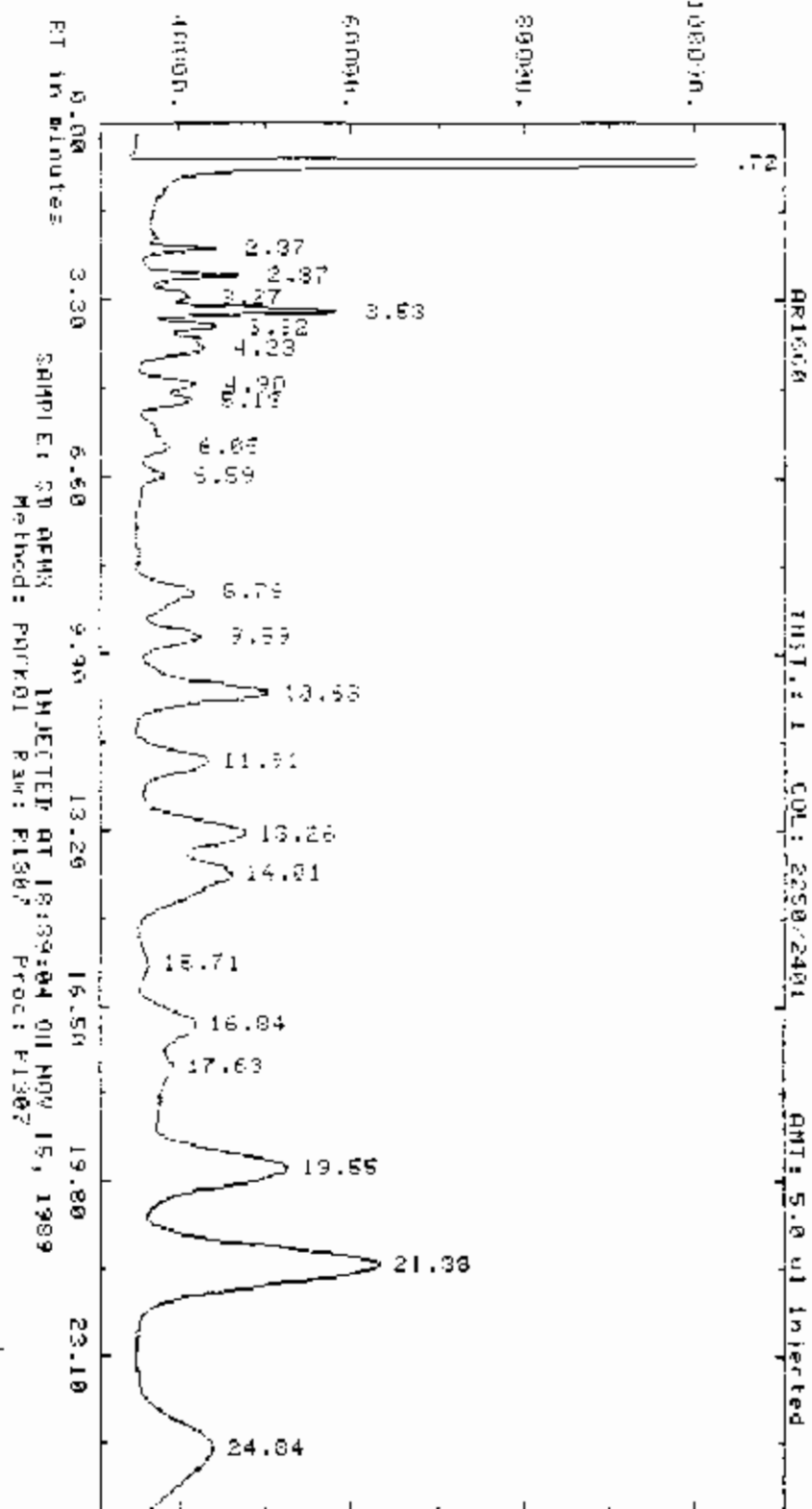
Actual run time: 26.008 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.72	0.00	.10000E+01	2689910.	25	65.066
4.59	0.00	.10000E+01	11342.	BB	.274
5.31	0.00	.10000E+01	18352.	BB	.444
6.04	0.00	.10000E+01	19170.	BB	.464
6.97	0.00	.10000E+01	7758.	BB	.188
7.58	0.00	.10000E+01	16458.	BB	.398
8.54	0.00	.10000E+01	102082.	BB	2.469
9.63	0.00	.10000E+01	99531.	BB	2.408
11.06	0.00	.10000E+01	5086.	BB	.121
11.61	0.00	.10000E+01	31144.	BB	.753
12.39	0.00	.10000E+01	149687.	BB	3.621
13.38	0.00	.10000E+01	37531.	BB	.908
14.61	0.00	.10000E+01	230752.	BB	5.582
15.56	0.00	.10000E+01	8224.	BB	.200
15.31	0.00	.10000E+01	15424.	BB	.373
17.84	0.00	.10000E+01	11409.	BB	.275
18.52	0.00	.10000E+01	12627.	BB	.305
19.46	0.00	.10000E+01	9936.	BB	.240
19.93	0.00	.10000E+01	26326.	BB	.637
21.45	0.00	.10000E+01	557024.	BB	13.475
23.92	0.00	.10000E+01	74313.	BB	1.796

Total Area = 4134136. Total AREA % = 74312.500

Processed data file: P1306 Raw data file: R1306

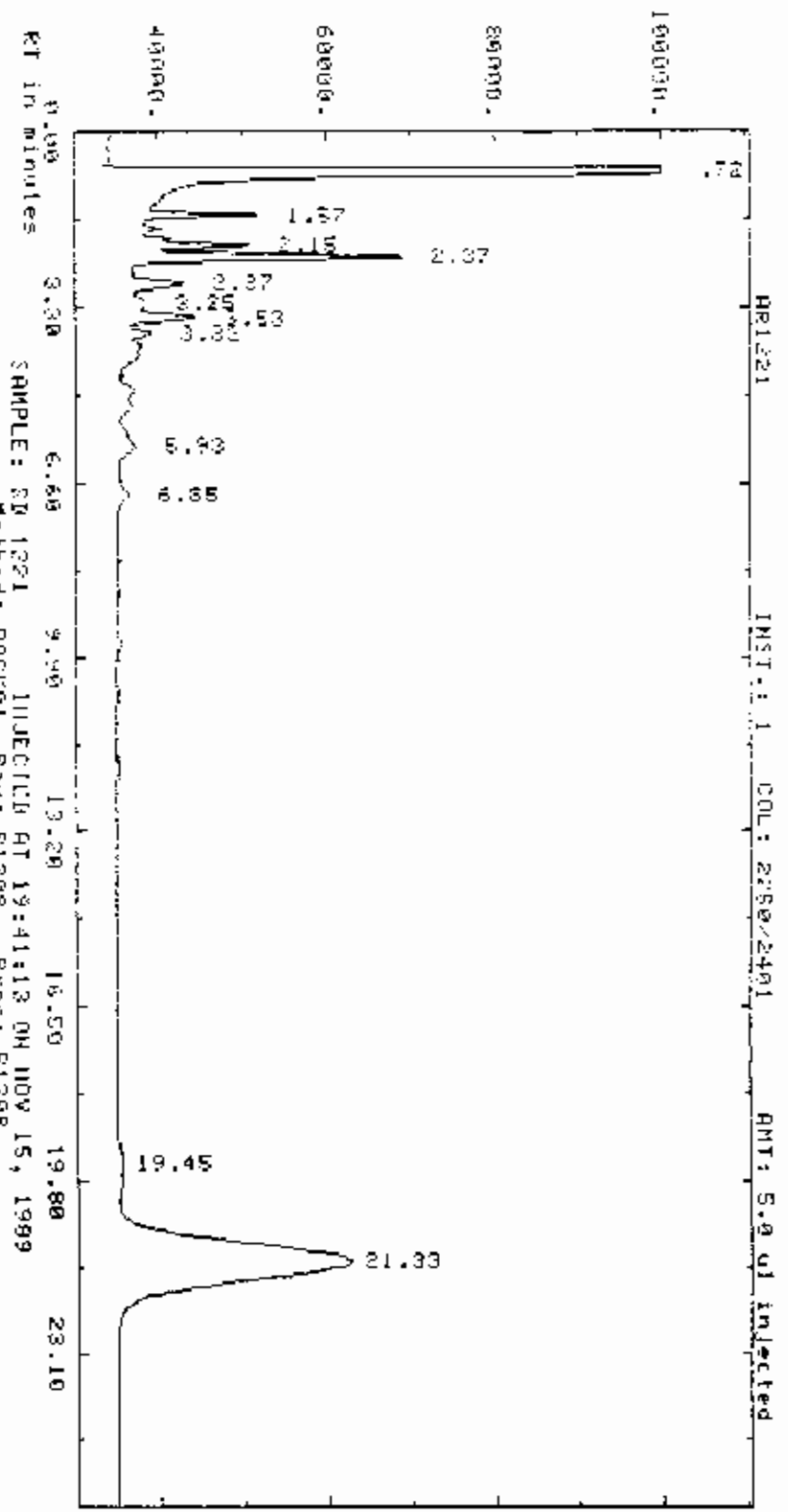


Report: 13851.00 Channel: 1 A91660
 Sample: 8D ARHX Injected at 16:37:04 ON NOV 13, 1969
 ZERO Method: PACK01 Seq: 3ED13 Subseq#Famp: 1/7 Etl: 7
 Sl-width HV/Min Delay Min-Ap Suncy
 .500 .300 0.00 5000 Auto
 Sep-Unk DuT ID-Lvl Ref-RTW ZR[W] ZD[L-F] Iso
 NO 0.00 0 30 5.0 100.00 NO
 Actual run time: 26.000 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
2.72	0.00	.10000E+01	2603901	53.223	BS
3.37	0.00	.10000E+01	27543	5.63	BR
3.97	0.00	.10000E+01	33245	6.91	BR
4.27	0.00	.10000E+01	12555	2.57	BR
4.53	0.00	.10000E+01	27355	5.68	BR
3.82	0.00	.10000E+01	41755	8.66	BR
4.23	0.00	.10000E+01	9180	1.89	BR
4.90	0.00	.10000E+01	19087	3.96	BR
5.19	0.00	.10000E+01	18365	3.79	BR
6.05	0.00	.10000E+01	17612	3.64	BR
6.59	0.00	.10000E+01	19587	4.04	BR
8.76	0.00	.10000E+01	54450	11.31	BR
9.59	0.00	.10000E+01	63421	13.17	BR
10.83	0.00	.10000E+01	106233	22.01	BR
11.91	0.00	.10000E+01	132909	27.61	BR
13.26	0.00	.10000E+01	103906	21.44	BR
14.01	0.00	.10000E+01	115573	23.97	BR
15.71	0.00	.10000E+01	16942	3.52	BR
16.84	0.00	.10000E+01	26187	5.42	BR
17.83	0.00	.10000E+01	14900	3.05	BR
19.55	0.00	.10000E+01	362146	74.93	BR
21.38	0.00	.10000E+01	875191	18.14	BR
24.84	0.00	.10000E+01	257421	5.27	BR

Total Area = 492575 Total AREA % = 257524.000
 Processed data file: P1317 Raw data file: F1307

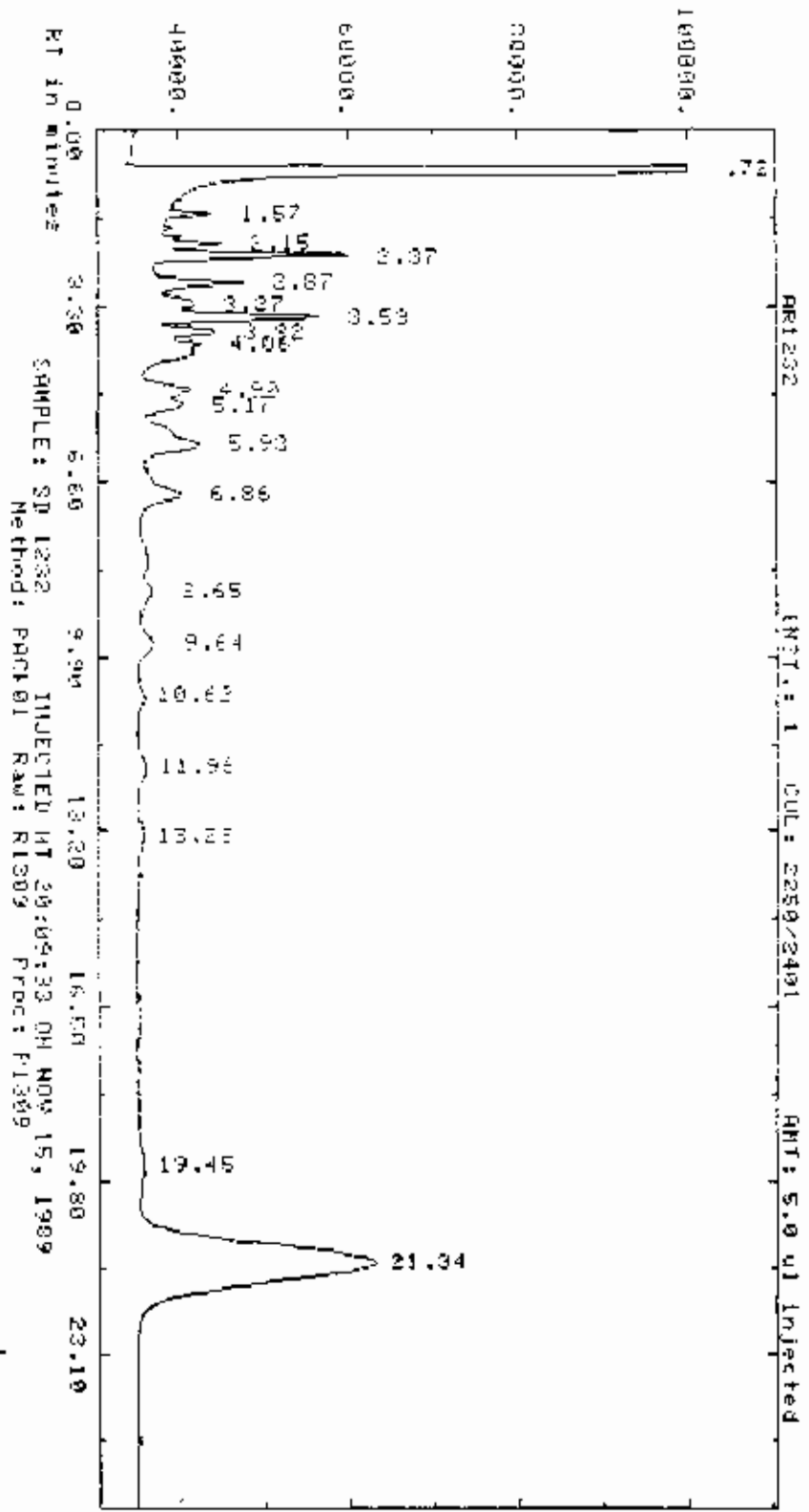
22.55

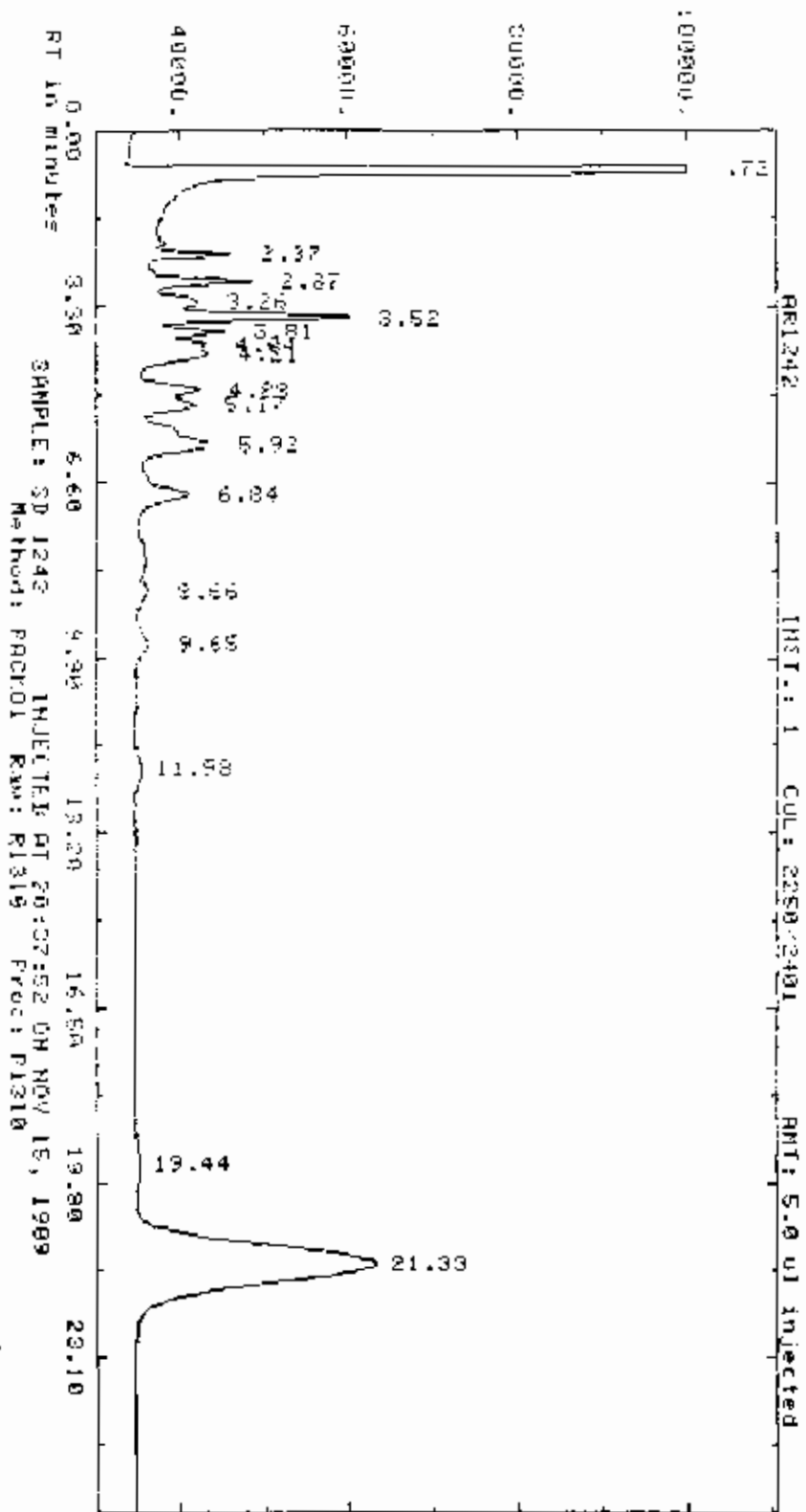


Report: 13052.00 Channel: 1 AR1221
 Sample: SD 1221 Injected at 19:41:13 ON NOV 15, 1969
 7ERD Method: PACK01 Seq: SEQ13 Subq/Samp: 1/ 8 SCL: 1
 Si-width: .500 MV/Min: .300 Delay: 0.00 ris-Arg: 500t Bench: Auto
 Sup-Unk: NO Det: 0.00 ID-Lvl: 0 Ref-RTM: 30 ZRTW: 5.0 Z01-f: 100.00 Iso: NO
 Actual run time: 26.017 minutes

RT	ITM	Factor	Area	AREA %	Name
1.72	0.00	1.0000E+01	2725550.	74.258	ES
1.57	0.00	1.0000E+01	31139.	.846	LE
2.15	0.00	1.0000E+01	33924.	.932	ES
2.37	0.00	1.0000E+01	107630.	2.932	ES
2.87	0.00	1.0000E+01	25598.	.697	ES
3.25	0.00	1.0000E+01	5155.	.140	ES
3.53	0.00	1.0000E+01	27514.	.750	ES
3.82	0.00	1.0000E+01	8015.	.224	ES
5.93	0.00	1.0000E+01	7732.	.210	ES
6.85	0.00	1.0000E+01	6737.	.184	ES
19.45	0.00	1.0000E+01	8827.	.242	ES
21.33	0.00	1.0000E+01	692333.	19.863	ES
Total Area =			3670302.	Total AREA % = 692333.000	
Processed data file: P1308				Raw data file: R1308	

AMPLITUDE x .25 UV-seconds (Enlarged x 22.47)





Report: 13854 00 Channel: 1

AR1242

Sample: SD 1242

Injected at 20:37:52 ON NOV 15, 1989

ZEPD Method: PACK01

Seq: SEQ13

Subsq/Samp: 1/10

Sti: 10

Sl-width	MO/Min	Delay	Min-Ar	Bunch
.500	.300	0.00	5000	Note

Sup-Unk	DvT	ID-Lvl	Ref-RTU	XRTW	%Di-F	Iso
NO	0.00	0	.50	5.0	100.00	NO

Actual run time: 36.025 minutes

Ended not on baseline

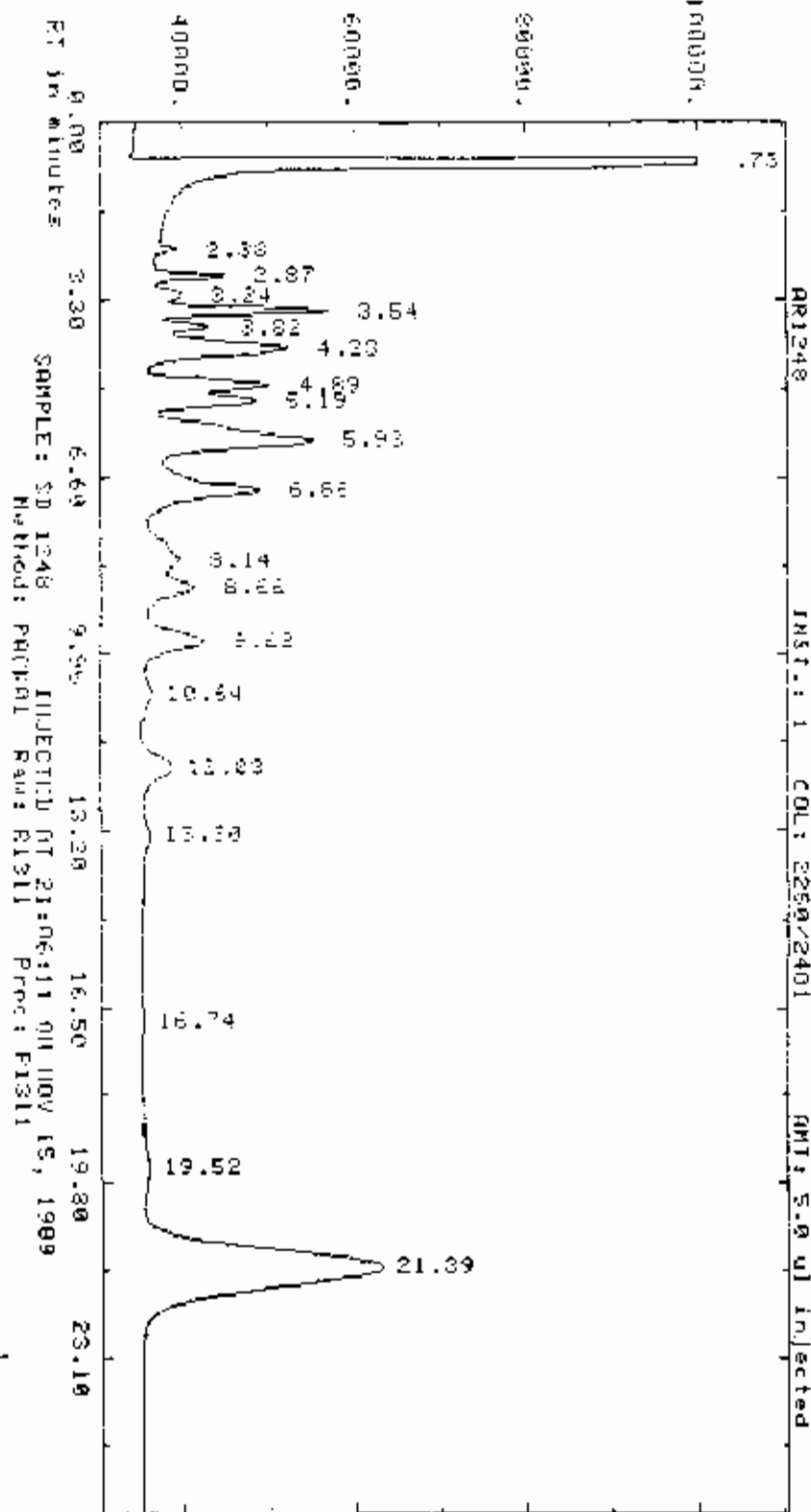
RT	ITH	Factor	Area	AREA %	Name
2.72	0.00	.10000E+01	2615695	69.691	RS
2.77	0.00	.10000E+01	30949	.825	RR
2.87	0.00	.10000E+01	39567	1.054	FR
3.26	0.00	.10000E+01	13968	.372	RR
3.52	0.00	.10000E+01	51423	1.423	RR
3.81	0.00	.10000E+01	23301	.622	LR
4.04	0.00	.10000E+01	3085	.008	RR
4.21	0.00	.10000E+01	7707	.211	RR
4.38	0.00	.10000E+01	19082	.500	RR
5.17	0.00	.10000E+01	10170	.274	RR
5.92	0.00	.10000E+01	8331	.225	RR
6.84	0.00	.10000E+01	14607	.393	RR
8.66	0.00	.10000E+01	2142	.006	RR
9.65	0.00	.10000E+01	17241	.461	RR
11.98	0.00	.10000E+01	11700	.312	LR
19.44	0.00	.10000E+01	822	.002	RR
21.33	0.00	.10000E+01	75033	19.923	RR

Total Area = 3753266

Total AREA % = 710236.500

Processed data file: P1310

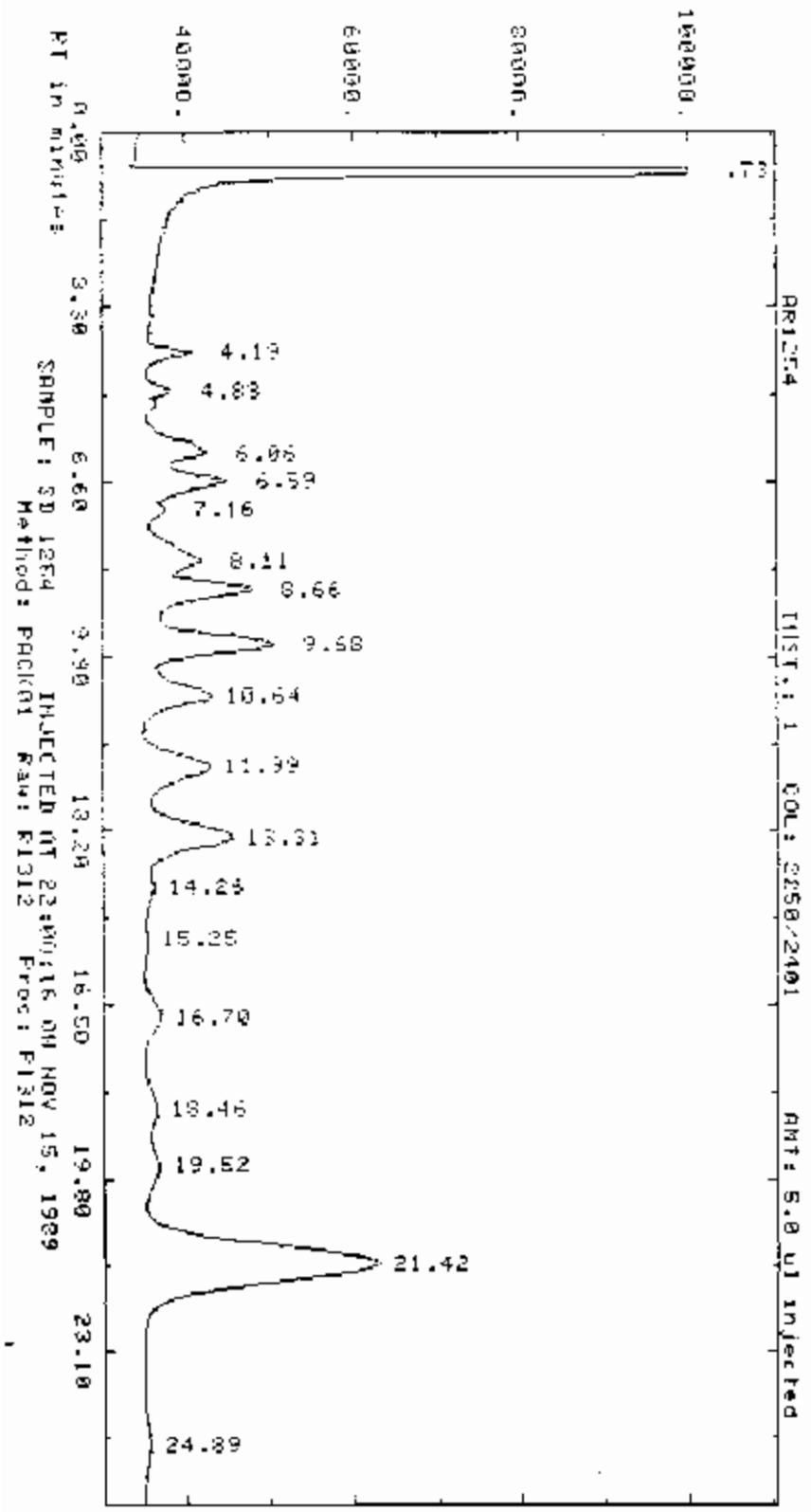
Raw data file: R1310



Report: 13055.00 Channel: 1 AR1240
 Sample: 5D 1248 Injected at 21.66:11 ON NOV 15, 1967
 ZERO Method: PACK01 Seq: SEQ03 Subseq/Samp: 1/11 Ptl: 11
 Sl-width 500 MV/Min .300 Delay 0.00 Min-Ar 5000 Bunch
 Auto
 Sup-Unk DuT ID-Lvl Ref-RTW %RTW %Dil-f Iso
 NO 0.00 0 % 0.30 5.0 100.00 NO
 Actual run time: 26.000 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
7.3	0.00	1.0000E+01	2660544.	62.398	RS
7.38	0.00	1.0000E+01	7689.	.180	RB
7.87	0.00	1.0000E+01	28331.	.662	RB
8.24	0.00	1.0000E+01	10264.	.240	RB
8.54	0.00	1.0000E+01	76265.	1.800	RB
8.82	0.00	1.0000E+01	17244.	.403	RB
4.93	0.00	1.0000E+01	117616.	2.750	RS
4.89	0.00	1.0000E+01	45551.	1.067	RB
5.19	0.00	1.0000E+01	40227.	.955	RB
5.97	0.00	1.0000E+01	265140.	6.310	RB
6.56	0.00	1.0000E+01	127551.	2.977	RB
8.14	0.00	1.0000E+01	29736.	.695	RB
9.66	0.00	1.0000E+01	32711.	.765	RB
9.68	0.00	1.0000E+01	75389.	1.763	RB
10.64	0.00	1.0000E+01	12653.	.297	RB
12.03	0.00	1.0000E+01	55046.	1.212	RB
13.30	0.00	1.0000E+01	12500.	.295	RB
16.74	0.00	1.0000E+01	5940.	.137	RB
19.52	0.00	1.0000E+01	12143.	.285	RB
21.39	0.00	1.0000E+01	696500.	16.287	RB

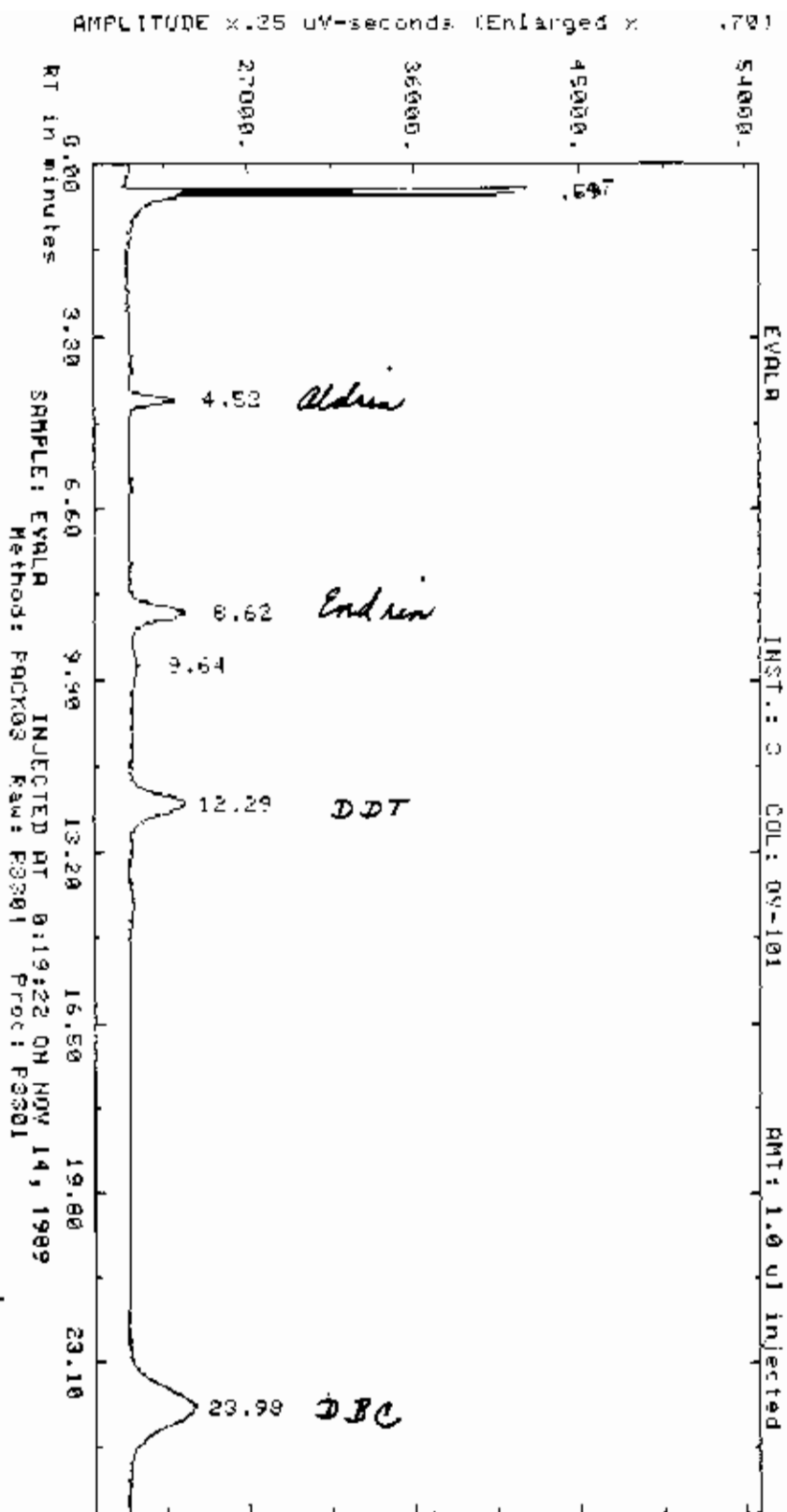
Total Area = 4276832 Total AREA % = 696500.500
 Processed data file: P1311 Raw data file: R1311



Report: 13856.00 Channel: 1 AR1254
 Sample: SD 1254 Injected at 22 00:16 ON NOV 15, 1989
 ZERO Method: PACK01 Seq: SEQ13 Subsq/Samp: 1/12 R11: 12
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Link Det ID-Lvl Ref-RTW ZRYW ZDil-f iso
 NO 0.00 0 0.30 5.0 100.00 NO
 Actual run time: 26.017 minutes

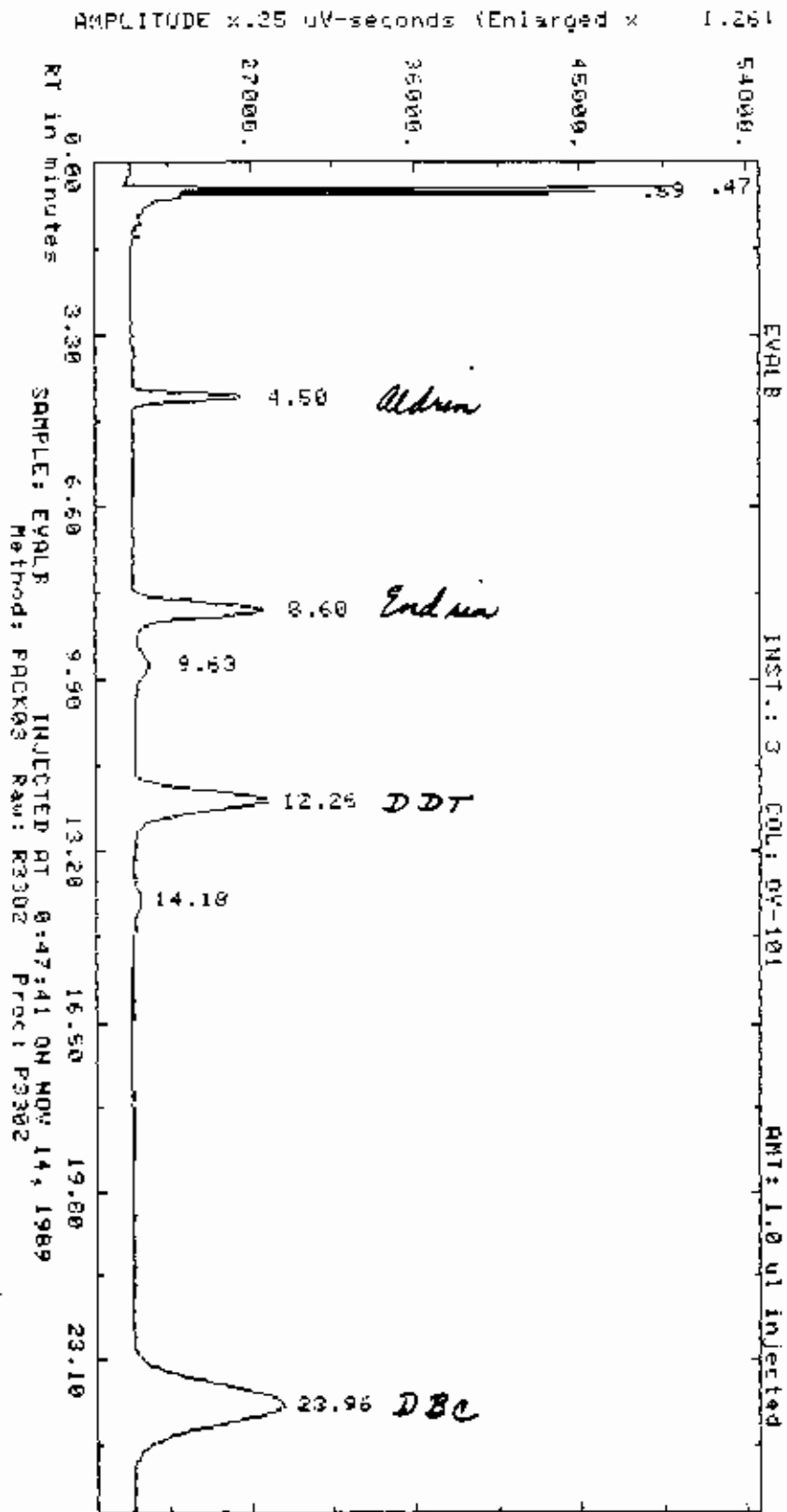
RT	ITM	Factor	Area	AREA %	Name
.73	0.00	.10000E+01	2739310.	63.019	EG
4.19	0.00	.10000E+01	29976.	.689	EH
4.80	0.00	.10000E+01	12530.	.291	EG
6.06	0.00	.10000E+01	92017.	1.217	EG
6.59	0.00	.10000E+01	67051.	1.542	EG
7.16	0.00	.10000E+01	5853.	.135	EG
8.11	0.00	.10000E+01	45702.	1.074	EG
8.66	0.00	.10000E+01	63288.	2.030	EG
9.68	0.00	.10000E+01	154183.	3.544	EG
10.64	0.00	.10000E+01	84603.	2.061	EG
11.99	0.00	.10000E+01	111420.	2.563	EG
13.31	0.00	.10000E+01	143671.	3.420	EG
14.26	0.00	.10000E+01	7209.	.164	EG
15.25	0.00	.10000E+01	5261.	.121	EG
16.70	0.00	.10000E+01	37034.	.852	EG
18.46	0.00	.10000E+01	18491.	.425	EG
19.52	0.00	.10000E+01	24274.	.561	EG
21.42	0.00	.10000E+01	689031.	15.850	EG
24.89	0.00	.10000E+01	19321.	.449	EG

Total Area = 4347401 Total AREA % = 9921.500
 Processed data file: P1312 Raw data file: R1312



Report: 13433.00 Channel: 3 EVALA
 Sample: EVALA Injected at 0:19:22 ON NOV 14, 1989
 ZCRD Method: PACK03 Seq: SEQ33 Subsq/Samp 1/ 1 Rfl: 1
 Sl-width 500 HV/Min .300 Delay 0.00 Min-Ap 3000 Bunch Auto
 Sup-Unk NO Dvt 0.00 ID-Lvl 0 Ref-RTU .30 CRTk 5.0 %Dil-f 100.00 Iso NO
 Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.47	0.00	.10000E+01	24181. BB	10.814	
.59	0.00	.10000E+01	19017. BD	8.504	
4.52	0.00	.10000E+01	12364. BB	5.529	
8.62	0.00	.10000E+01	27260. BB	12.191	
9.64	0.00	.10000E+01	3983. BB	1.781	
12.29	0.00	.10000E+01	41020. BB	18.344	
23.98	0.00	.10000E+01	95789. BB	42.837	
Total Area = 227415.			Total AREA % = 95789.500		
Processed data file: P3301			Raw data file: R3301		



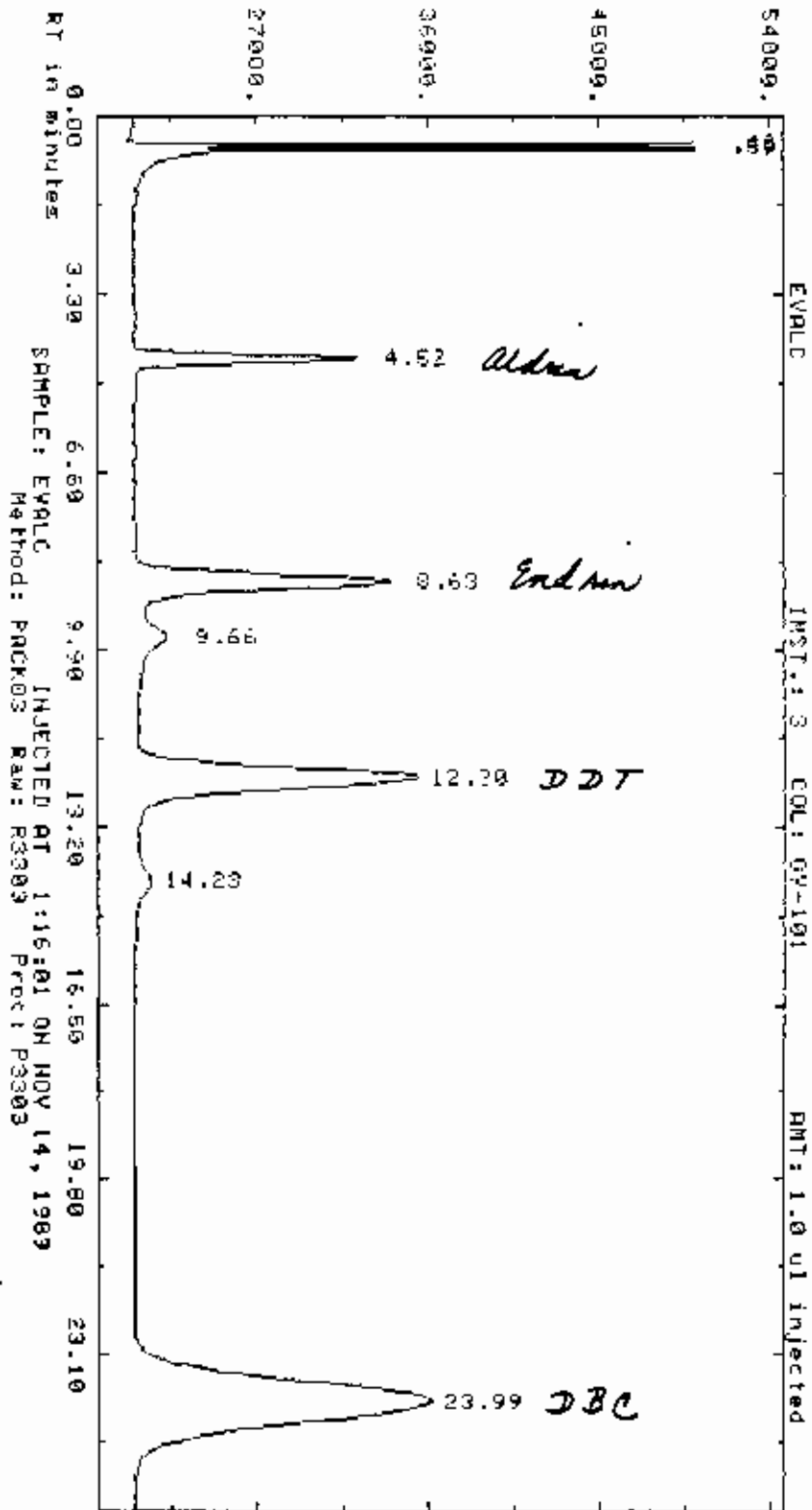
Report: 13434.00 Channel: 3 EVALB
 Sample: EVALB Injected at 0:47:41 ON NOV 14, 1989
 ZERO Method: PACK03 Seq: SEQ33 Subsq/Samp: 1/2 Ptl: 2
 Sl-width MV/Min Delay Min-Ap Bunch
 .500 .300 0.00 3000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-f Iso
 NO 0.00 0 30 5.0 100.00 NO

Actual run time: 26.008 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.47	0.00	.10000E+01	34750. BB	6.984	
.59	0.00	.10000E+01	20849. BB	4.190	
4.50	0.00	.10000E+01	30475. BB	6.125	
8.50	0.00	.10000E+01	45607. BB	13.186	
9.53	0.00	.10000E+01	8373. BB	1.683	
12.26	0.00	.10000E+01	102504. BB	20.601	
14.19	0.00	.10000E+01	3896. BB	1.135	
23.96	0.00	.10000E+01	229106. BF	46.046	
Total Area = 497560.			Total AREA % = 229106.000		
Processed data File: P3302			Raw data file: R3302		

AMPLITUDE x.25 uV-seconds (Enlarged x 1.86)



Report: 13435.00 Channel: 3 EVALC
 Sample: EVALC Injected at 1:16:01 ON NOV 14, 1989
 ZERO Method: PACK03 Seq: SE033 Subsq/Samp: 1/2 Btl: 3
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 3000 Auto
 Sup-Link Det ID-Lvl Ref-RTW %RTW %Dil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.008 minutes

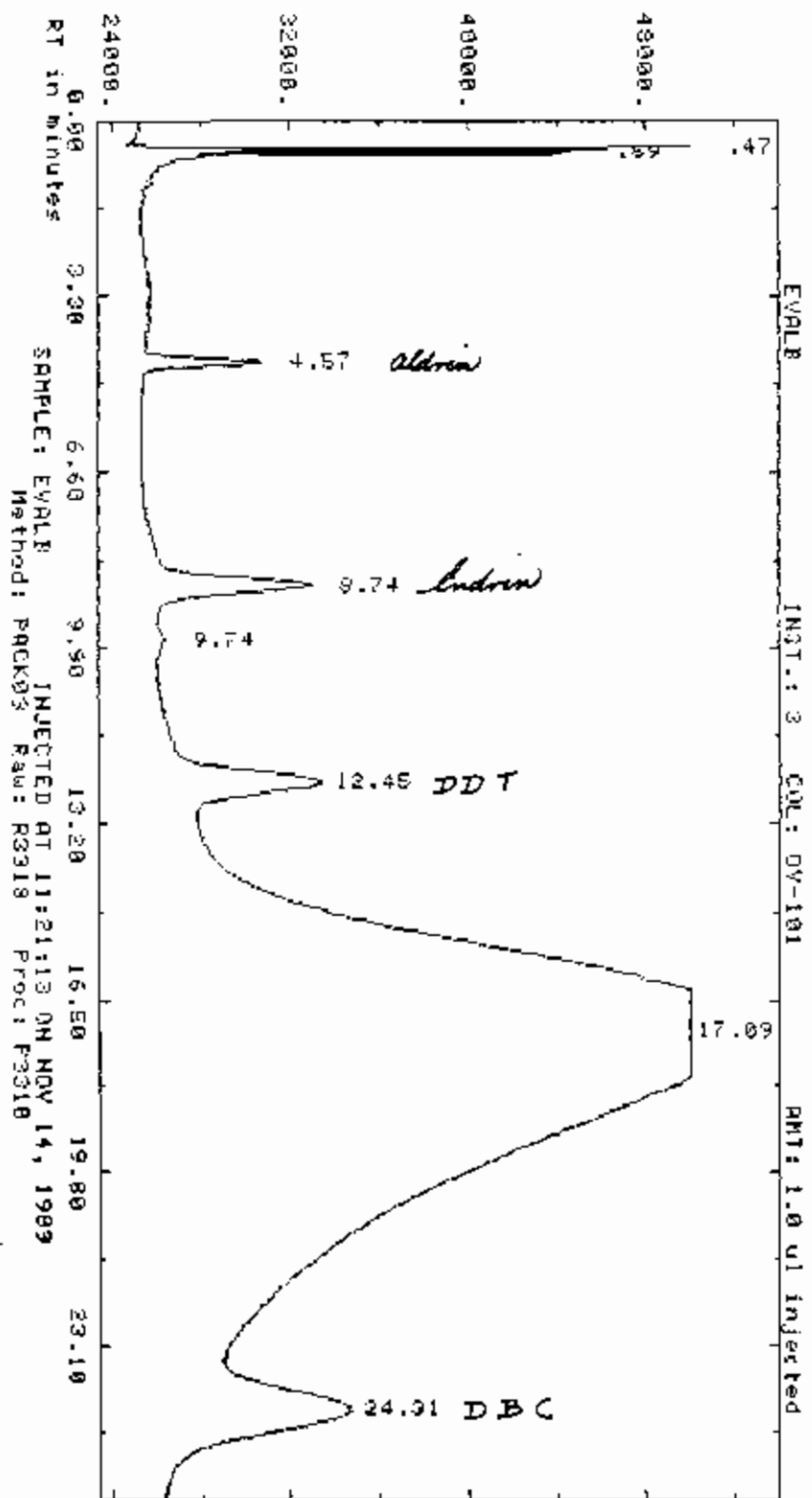
Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.48	0.00	.10000E+01	58637. BB	6.126	
.59	0.00	.10000E+01	35180. BB	3.675	
4.52	0.00	.10000E+01	60244. BB	6.294	
8.63	0.00	.10000E+01	129719. BB	13.552	
9.66	0.00	.10000E+01	15158. BB	1.584	
12.30	0.00	.10000E+01	207536. BB	21.682	
14.23	0.00	.10000E+01	10895. BB	1.138	
23.99	0.00	.10000E+01	439813. BF	45.949	
Total Area = 957182.			Total AREA % = 439813.500		

Processed data file: P3303

Raw data file: R3303

AMPLITUDE x.25 uV-seconds (Enlarged x 1.35)



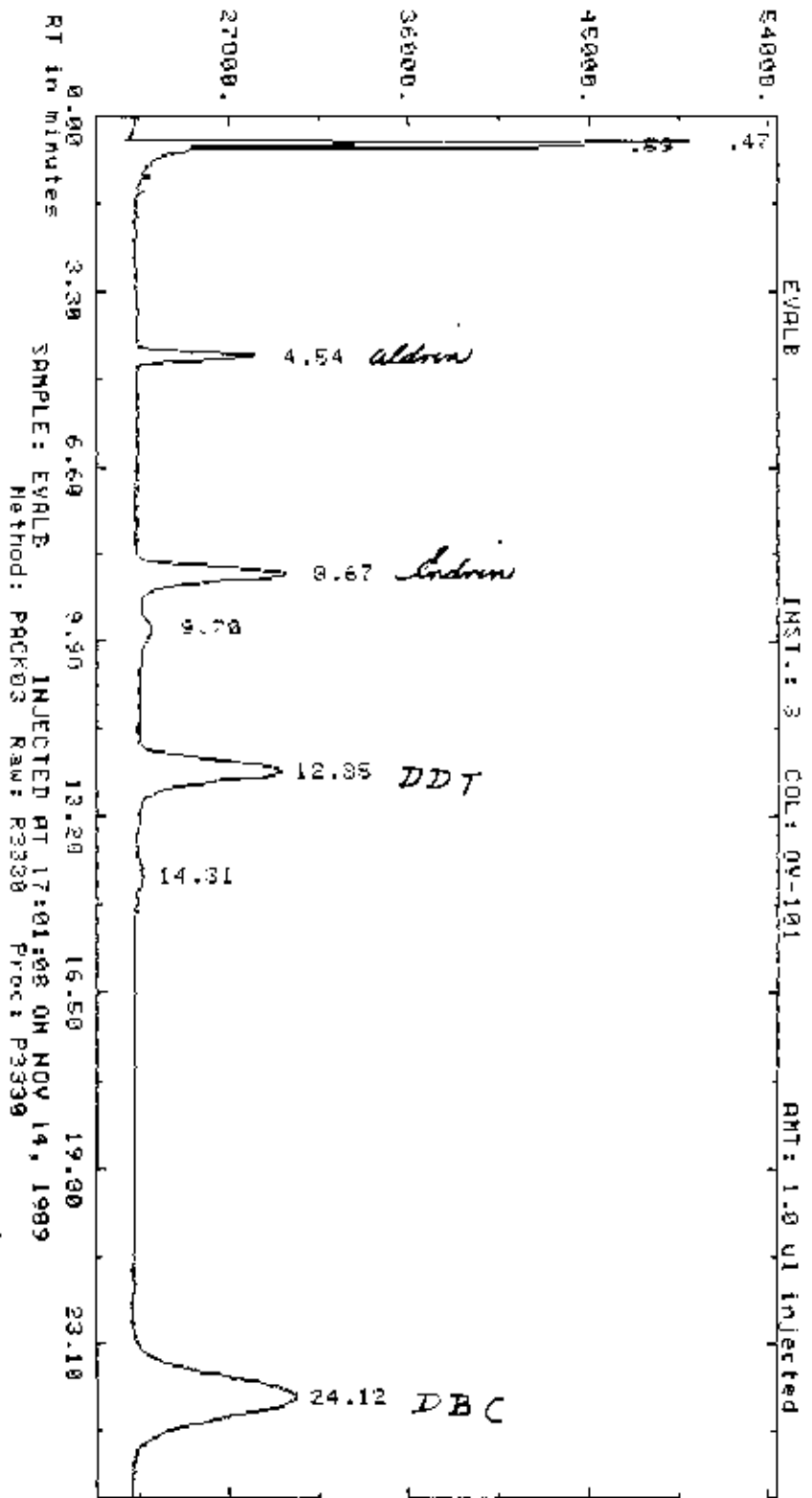
Report: 13450 00 Channel: 3 EVALB
 Sample: EVALB Injected at 11:21:13 ON NOV 14, 1989
 ZERO Method: PACK03 Seq: SEQ33 Subsq/Samp: 1/18 Btl: 18
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 3000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTU %RTU %Dil-F Iso
 NO 0.00 0 30 5.0 100.00 NO

Actual run time: 36.008 minutes
 Ended not on baseline

RT	ITH	Factor	Area	NAME	AREA %
.47	0.00	.10000E+01	42011.	BB	1.158
.59	0.00	.10000E+01	19605.	BB	.430
4.57	0.00	.10000E+01	26822.	BB	.739
8.74	0.00	.10000E+01	72150.	BB	1.969
9.74	0.00	.10000E+01	3180.	BB	.089
12.45	0.00	.10000E+01	69462.	BB	1.915
17.07	0.00	.10000E+01	3239060.	BB	89.008
24.31	0.00	.10000E+01	169540.	BF	4.673

Total Area = 3627831. Total AREA % = 169540.000
 Processed data file: P3318 Raw data file: R3318

AMPLITUDE x.25 uV-seconds (Enlarged x 1.48)



Report: 13462.00 Channel: 3 EVALB

Sample: EVALB Injected at 17:01:03 On NOV 14, 1987

ZERO Method: PACK03 Seq: SEQ33 Subseq/Samp: 1/30 Btl: 30

SI-width MV/Min Delay Min-Ar Bunch
.500 .300 0.00 3000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

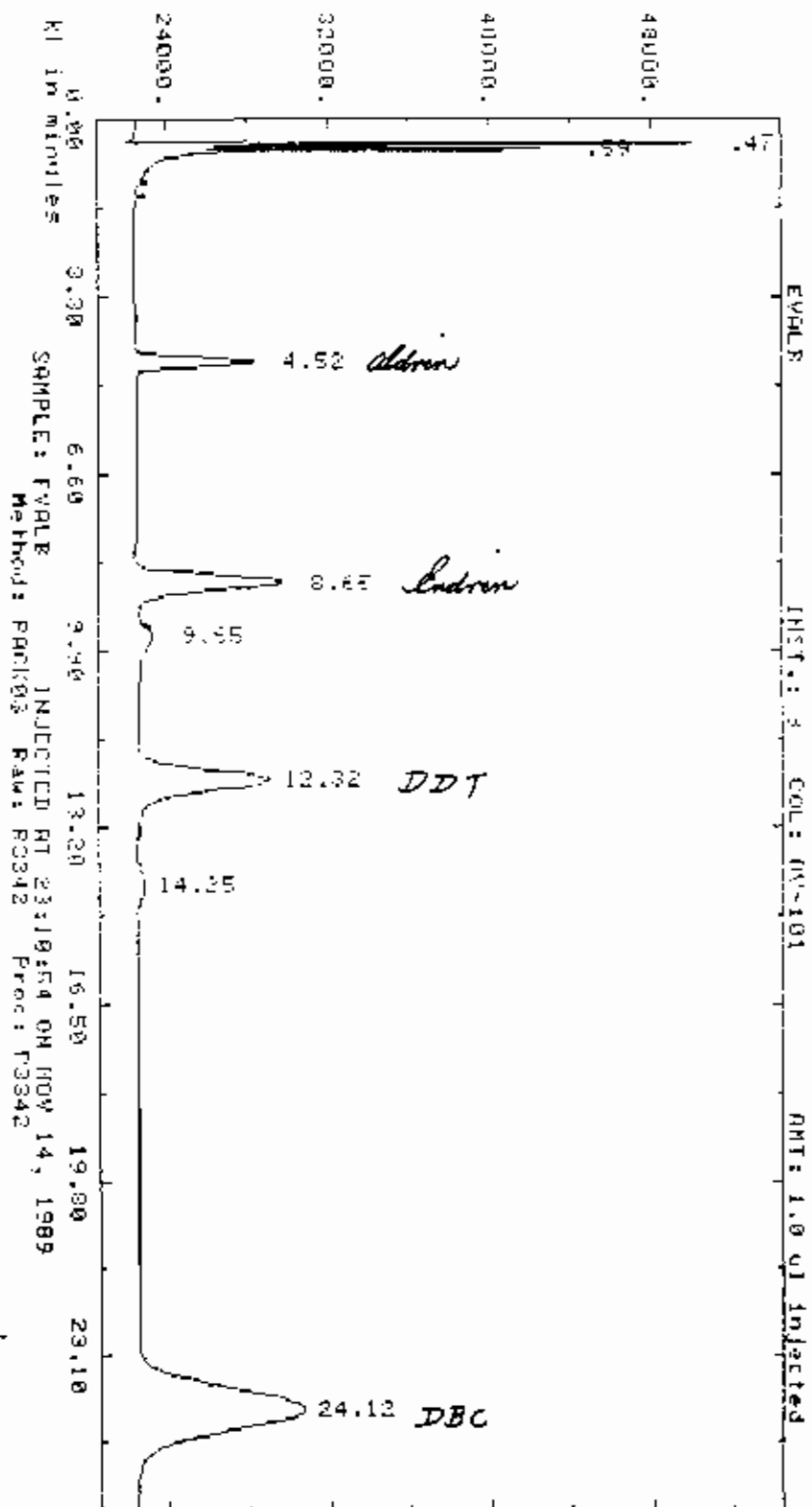
RT	ITH	Factor	Area	AREA %	Name
.47	0.00	.10000E+01	38428	BF	7.750
.59	0.00	.10000E+01	30094	BF	4.233
4.54	0.00	.10000E+01	30184	BF	6.002
8.67	0.00	.10000E+01	60484	BF	13.612
9.70	0.00	.10000E+01	7699	BF	1.055
12.35	0.00	.10000E+01	98680	BF	19.904
14.31	0.00	.10000E+01	4734	BF	.955
24.12	0.00	.10000E+01	226689	BF	45.720

Total Area = 495825.

Total AREA % = 226689.000

Processed data file: R3330

Raw data file: R3330



Report: 13471.00 Channel: 5 64613

Sample: EVAL8 Injected at 13:06:54 ON NOV 14, 1959

ZERO Method: PACK03 Seq: 5EQ35 Subseq/Camp: 1742 Pct: 42

Sl-width HV/Min Delay High-vol Branch
.500 .300 0.00 2000 Rate

Sup-Hok Out ID-Lo1 Ref-RTW XRTW Xdil-F Iso
NO 0.00 0 1.30 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

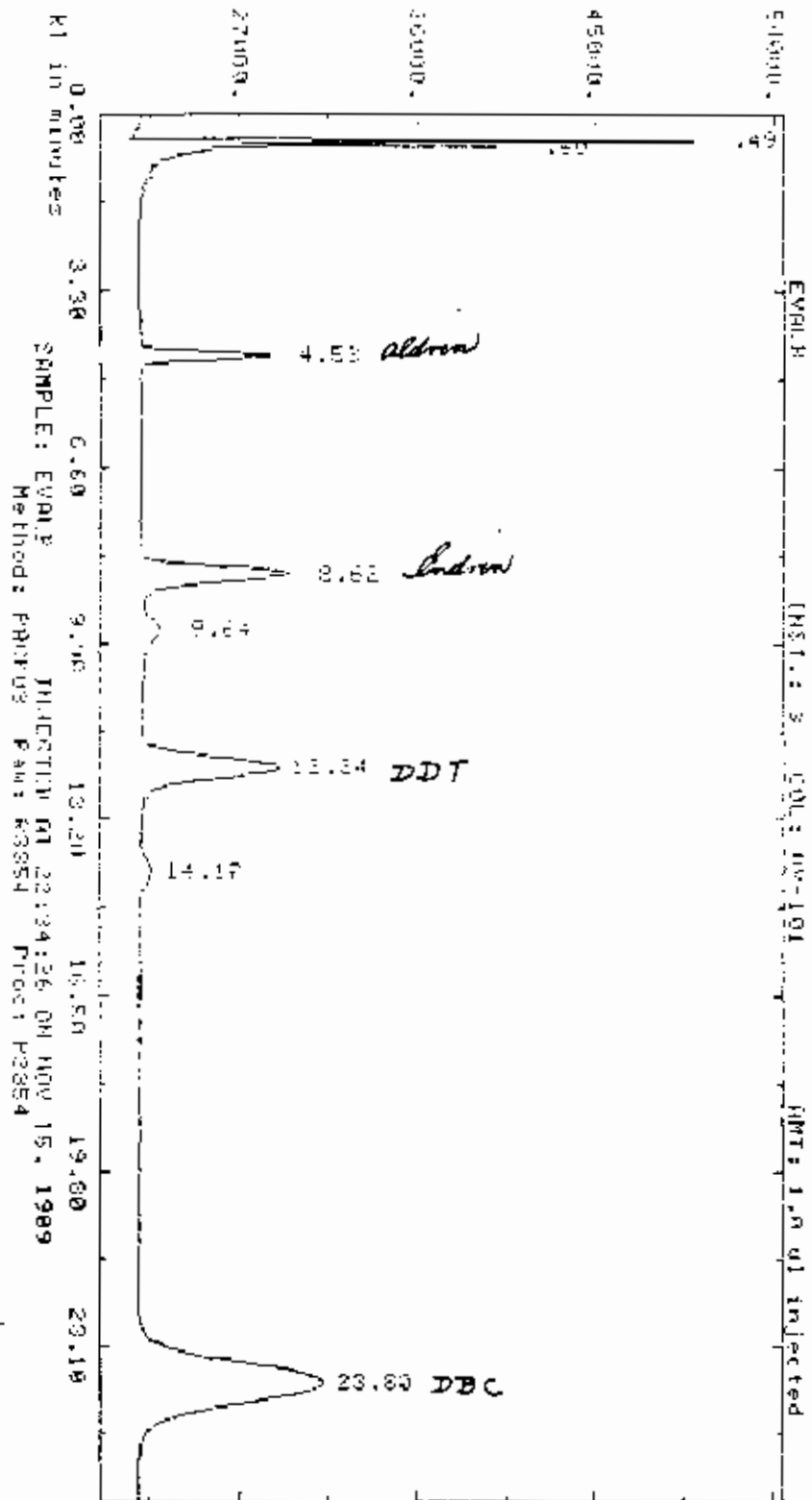
RT	ITM	Factor	Area	AREA %	Name
.47	0.00	.10000E+01	36957	BB	7.642
.59	0.00	.10000E+01	17030	FR	3.508
4.52	0.00	.10000E+01	30152	GR	6.266
5.65	0.00	.10000E+01	49301	EE	10.292
9.65	0.00	.10000E+01	9997	BP	1.913
12.32	0.00	.10000E+01	89242	BP	18.365
14.25	0.00	.10000E+01	5152	BB	1.053
24.12	0.00	.10000E+01	228316	EE	47.024

Total Area = 483536.

Total AREA % = 228319.000

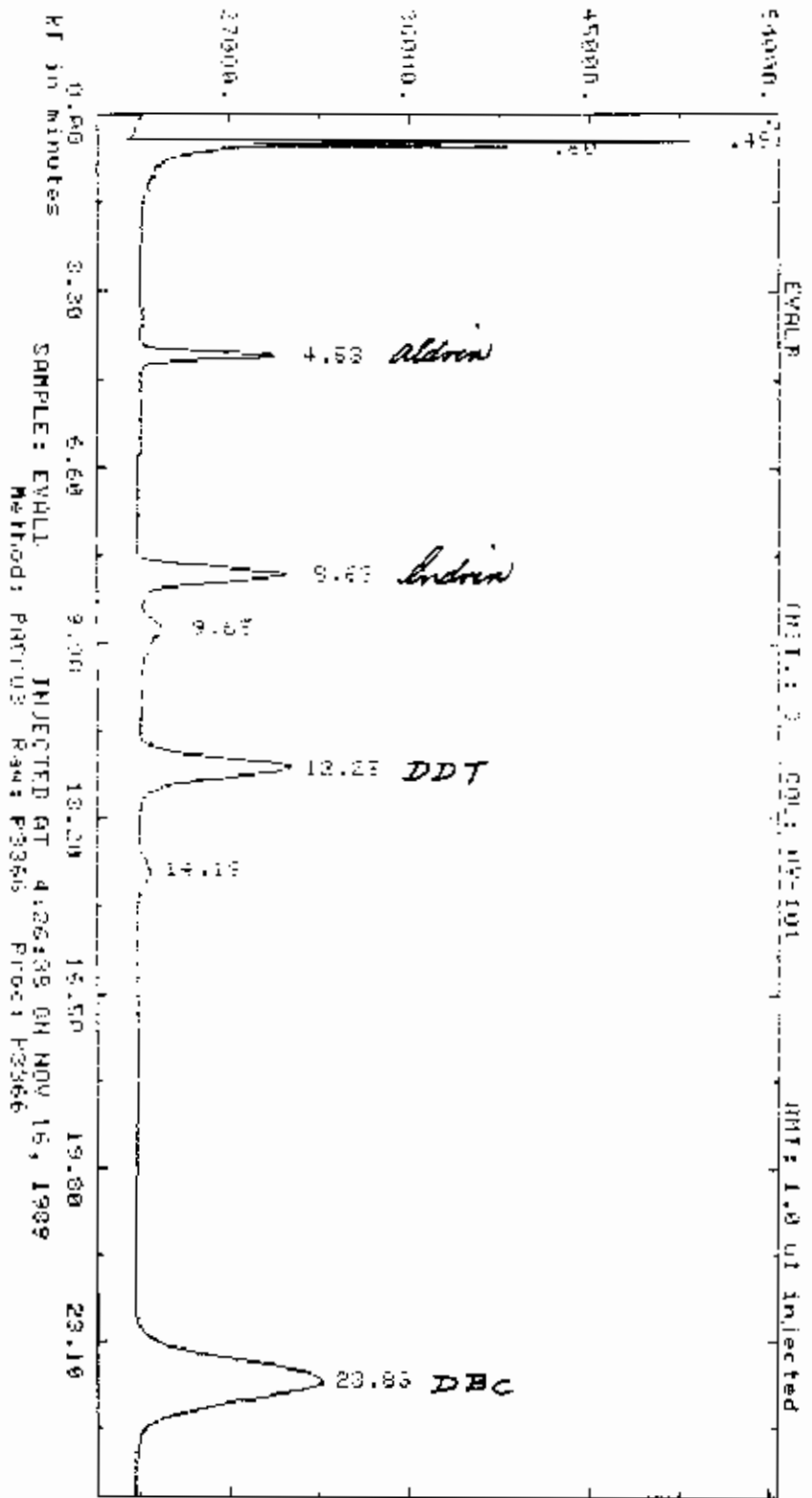
Processed data file: P3342

Raw data file: k3341



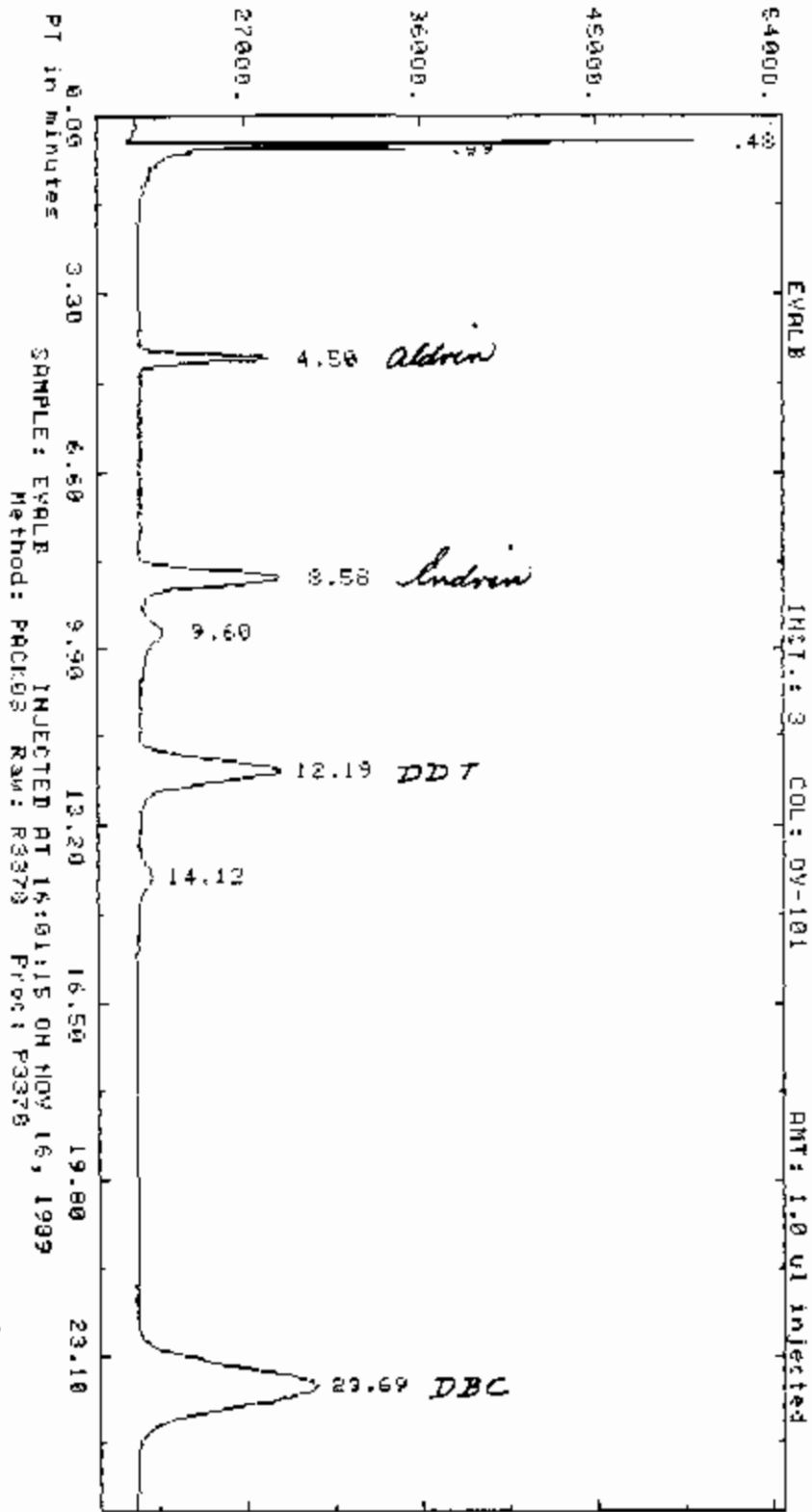
Report: 13492.00 Channel: 3 EVALB
 Sample: EVALB Injected at 22:34:26 on NOV 15, 1989
 ZERP Method: PACK03 Seq: 20333 Cobac/Comp: 1/54 RT1: 54
 Sl-width MV/Min Delay Min-Sr Pouch
 .500 .300 0.00 3000 Auto
 Sup-Unk DvT IQ-Lvl Ref-RTW %RTW %Dil-f Iso
 NO 0.00 0 1.30 5.0 100.00 NO
 Actual run time: 26.917 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.49	0.00	1.0000E+03	57724.88	10.610	
.60	0.00	1.0000E+01	42731.53	2.340	
4.57	0.00	1.0000E+03	35097.38	6.166	
8.62	0.00	1.0000E+01	21468.28	13.136	
9.64	0.00	1.0000E+01	11457.28	2.135	
12.74	0.00	1.0000E+01	95477.11	17.322	
14.17	0.00	1.0000E+01	7087.88	1.410	
23.80	0.00	1.0000E+05	255612.18	46.814	
Total Area =		544061	Total AREA % =		233649.500
Processed data file: P3354			Raw data file: P3354		



Report: 13504.00 Channel: 3 EVALI
 Sample: EVALB Injected at: 4:26:33 ON NOV 16, 1989
 ZERO Method: PCK03 Sec: 82033 Subst/Comp: 1/66 Rti: 66
 Sl-width HV/Min Delay Scan Or Bunch
 .500 .300 0.00 2000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW ZRTw Xdil-f Iso
 NO 0.00 0 1.00 5 0 100.00 00
 Actual run time: 26.003 minutes
 Ended not on baseline

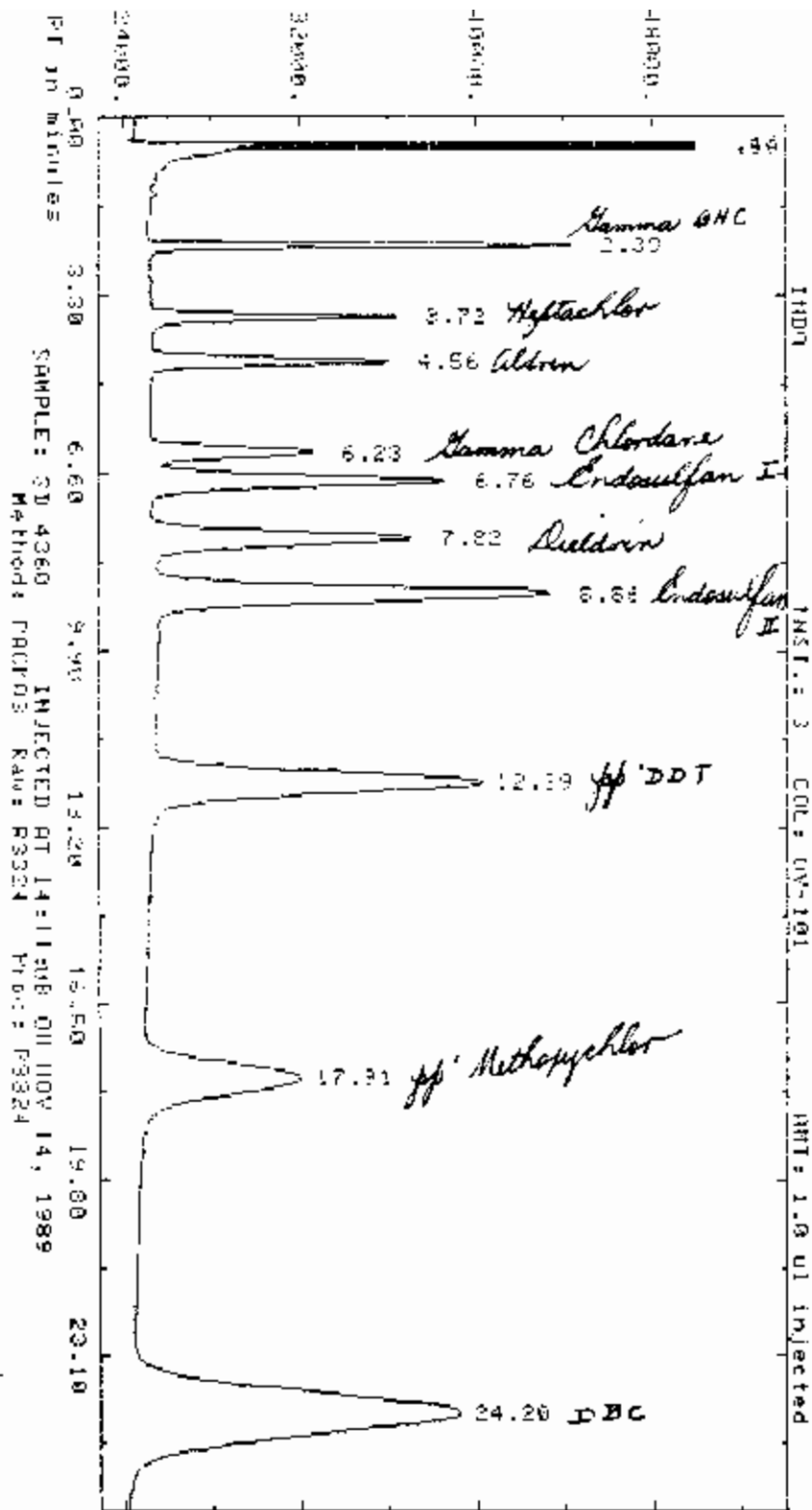
RT	ITH	Factor	Area	AREA %	Name
.49	0.00	.10000E+01	60175	BB	10.259
.60	0.00	.10000E+01	12685	BB	2.229
4.53	0.00	.10000E+01	54014	1-5	6.138
8.63	0.00	.10000E+01	65250	EE	12.048
9.65	0.00	.10000E+01	42741	BB	2.447
12.25	0.00	.10000E+01	103020	BB	18.528
14.19	0.00	.10000E+01	2157	BB	1.652
23.83	0.00	.10000E+01	254777	5F	45.975
Total Area = 554159			Total AREA % = 254777.000		
Processed data file: P3366			Raw data file: R3366		



Report: 13516.00 Channel: 3 EVALB
 Sample: EVALB Injected at 15:01:15 ON NOV 16, 1989
 ZERO Method: PCK03 Seq: SEQ35 Subsq/Samp: 1/76 Rtl: 78
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 300 0.00 3000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW ZRTW %Dil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.025 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.48	0.00	.10000E+01	50829	9.537	BB
.57	0.00	.10000E+01	8411	1.766	BB
4.50	0.00	.10000E+01	33150	6.220	BB
8.58	0.00	.10000E+01	67200	12.608	BB
9.60	0.00	.10000E+01	13923	2.613	BB
12.19	0.00	.10000E+01	99107	18.995	BB
14.12	0.00	.10000E+01	9869	1.892	BB
23.69	0.00	.10000E+01	249485	46.810	BF
Total Area = 532978			Total AREA % = 249485.000		
Processed data file: P3378			Raw data file: R3378		

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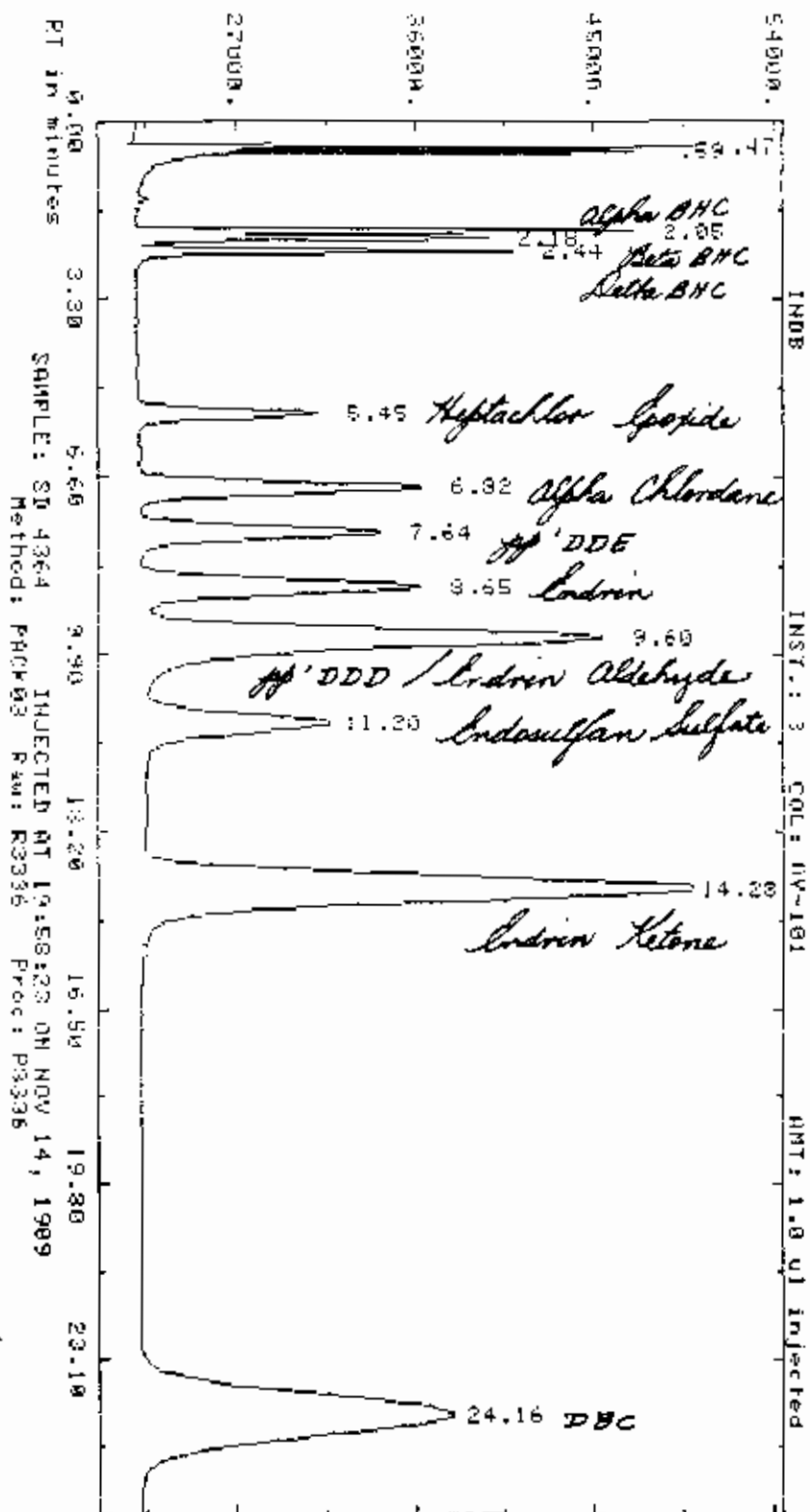


Report: 13456 00 Channel 3 I-07
 Sample: 50 4360 Injection: 19-11-08 (N 60) 14, 1987
 ZERO Method: PACKOX Rev 81033 Subsq/Samp: 1724 Pyl: 24
 SI-Width: .500 MV/Min: .300 Delay: 0.00 416-00 Bunch
 5000 Refe
 Sup-Unk: NO DvT: 0.00 IC-Lvl: 0 Ref-RTW: .30 WRTW: 5.0 5011-f: 100.00 Iso: NO
 Actual run time: 26.003 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.47	0.00	.10000E+01	73955	5.077	PE
.59	0.00	.10000E+01	22611	1.554	EB
3.39	0.00	.10000E+01	34673	2.367	EB
3.72	0.00	.10000E+01	49425	3.349	EB
4.56	0.00	.10000E+01	57770	3.943	EB
4.83	0.00	.10000E+01	45207	3.104	EB
4.76	0.00	.10000E+01	45207	3.104	EB
7.87	0.00	.10000E+01	143384	9.711	EB
8.86	0.00	.10000E+01	101024	6.875	EB
12.39	0.00	.10000E+01	218320	14.845	EB
17.91	0.00	.10000E+01	124410	8.501	EB
24.20	0.00	.10000E+01	415907	28.381	EB

Total Area = 1454066 Total AREA % = 41874.000

Processed data file: F3324 Raw data file: F3334



Report: 13468 00 Channel: 3 IN02
 Sample: SD 4364 Injected At 17:58:23 On Nov 14, 1989
 ZFRD Method: PAK03 Seq: SE033 Subseq/Samp: 1/35 RT1: 30
 SI-width MU/Min Delay Min-Ap Bench
 .500 300 0.00 3600 Auto
 Sub-Unk DvT ID-LoI Ref-RTW XRTW %Diff Imp
 NO 0.00 0 .30 5 0 100.00 NO

Actual run time: 26.008 minutes

Ended not on baseline

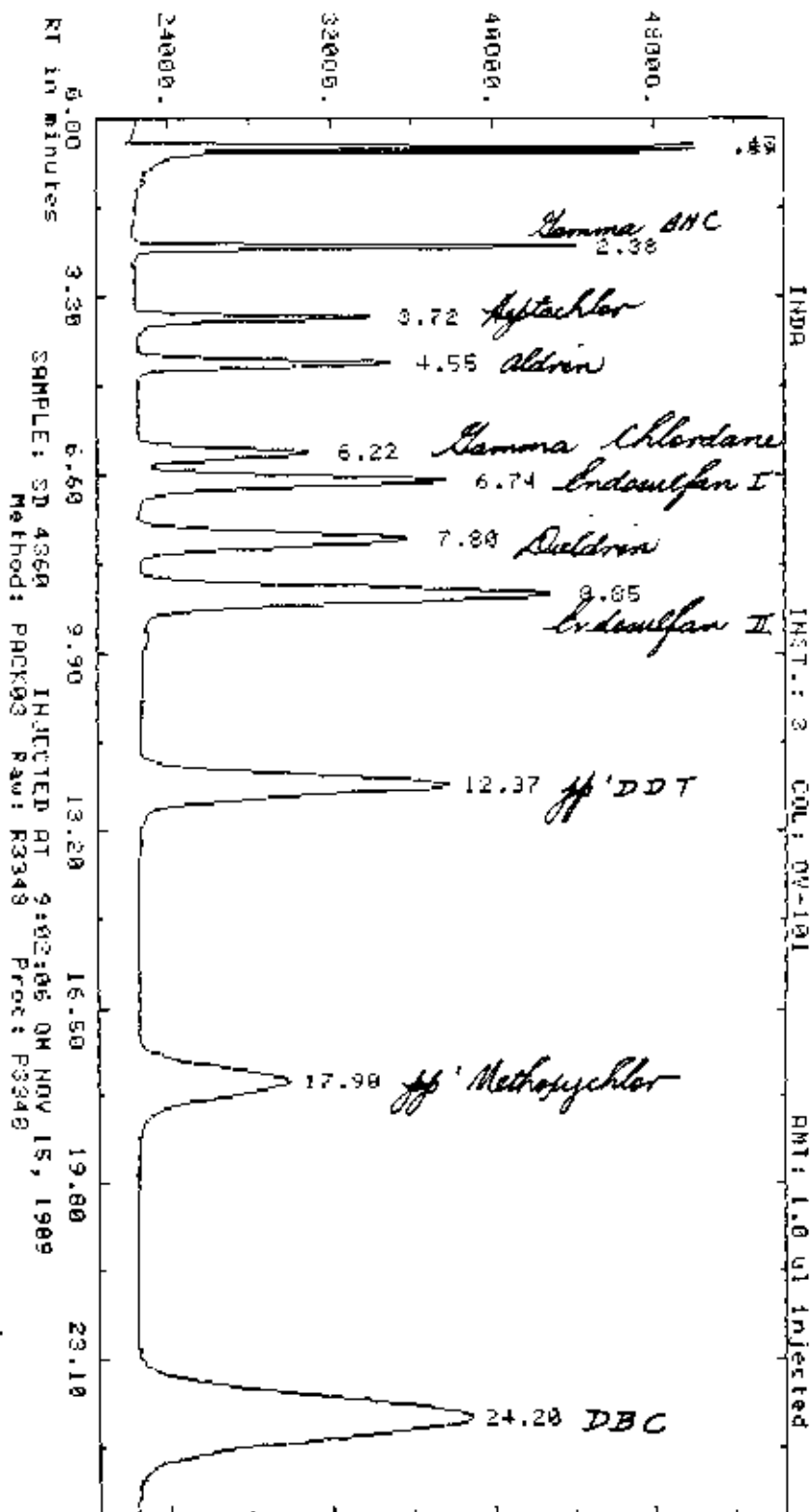
RT	ITH	Factor	Area	AREA %	Name
.47	0.00	1.0000E+01	54137	2.782	BB
.59	0.00	1.0000E+01	20014	1.028	BB
.85	0.00	1.0000E+01	42218	2.105	BB
1.8	0.00	1.0000E+01	29015	1.506	BB
4.4	0.00	1.0000E+01	33861	1.709	BB
5.45	0.00	1.0000E+01	36001	1.829	BB
6.92	0.00	1.0000E+01	11000	0.555	EE
7.64	0.00	1.0000E+01	11340	0.571	EE
8.55	0.00	1.0000E+01	13300	0.663	EE
9.40	0.00	1.0000E+01	39512	2.000	EE
11.20	0.00	1.0000E+01	11300	0.570	BB
14.28	0.00	1.0000E+01	47670	2.422	BB
24.14	0.00	1.0000E+01	44198	22.202	EE

Total Area = 1946016

Total AREA % = 44.787500

Processed data file: P7336

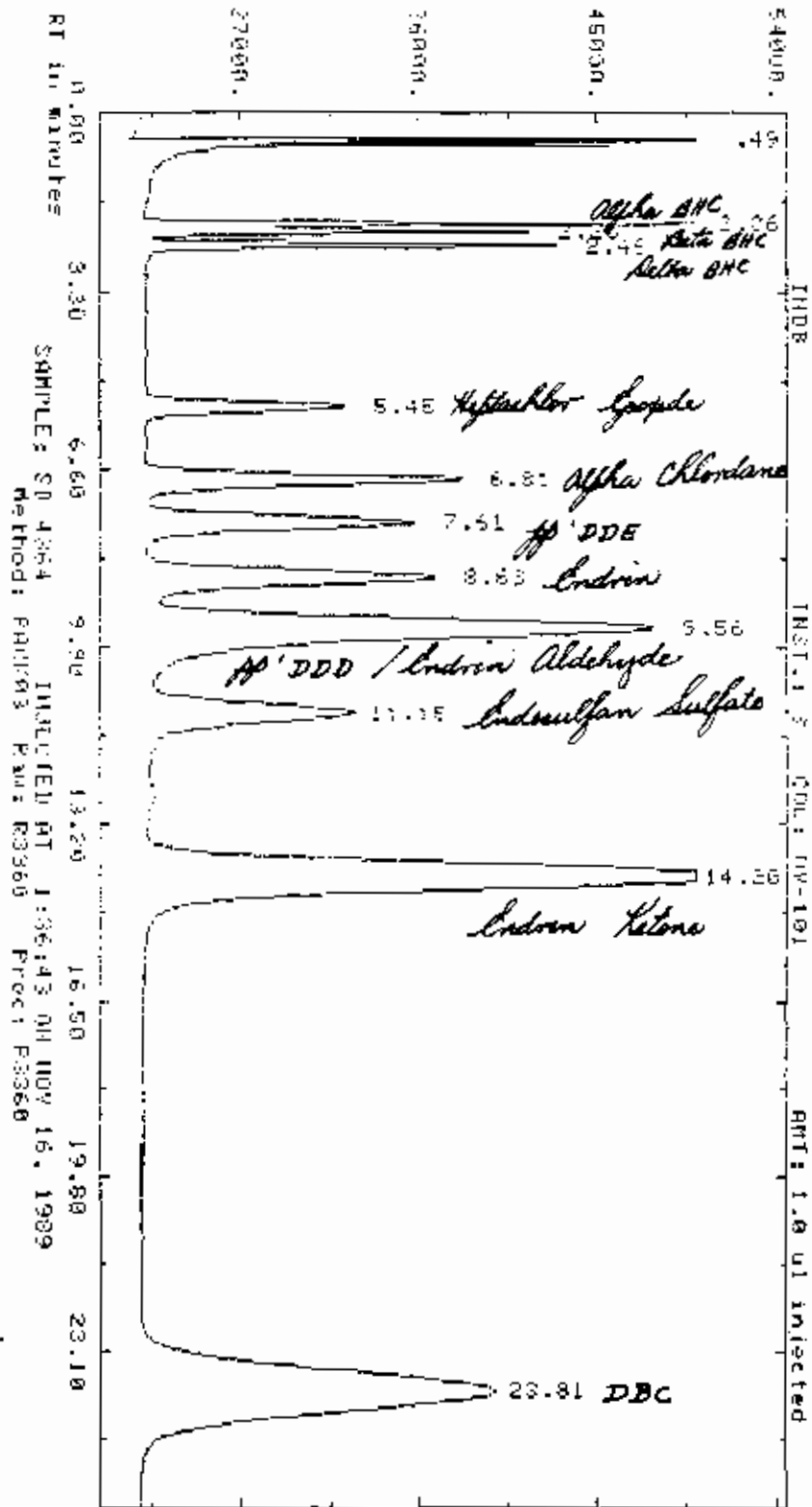
Raw data file: R3336



Report: 13482.00 Channel: 3 InDA
 Sample: SD 4360 Injected at 9:02:06 ON NOV 15, 1999
 ZERO Method: PACK03 Seq: SCQ33 Subsq/Samp: 1/48 Int: 48
 Sl-widthh MU/Min Delay Min-Ap Bunch
 .500 .300 0.00 3000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW ZRTW %Dil-f Iso
 NO 0.00 0 30 5.0 100.00 NO

Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.47	0.00	.10000E+01	62510.	BB	3.972
.59	0.00	.10000E+01	25489.	BB	1.617
2.38	0.00	.10000E+01	62511.	BB	3.947
3.72	0.00	.10000E+01	51700.	BB	3.280
4.55	0.00	.10000E+01	64223.	BB	4.074
6.22	0.00	.10000E+01	32548.	BB	3.352
6.74	0.00	.10000E+01	510937.	BB	5.984
7.60	0.00	.10000E+01	116503.	BB	7.391
8.85	0.00	.10000E+01	205693.	BB	13.048
12.37	0.00	.10000E+01	211603.	BB	13.423
17.90	0.00	.10000E+01	149841.	BB	9.505
24.20	0.00	.10000E+01	463559.	BB	22.407
Total Area = 1976367.			Total AREA % = 463559.000		
Processed data file: P3348			Raw data file: R3348		

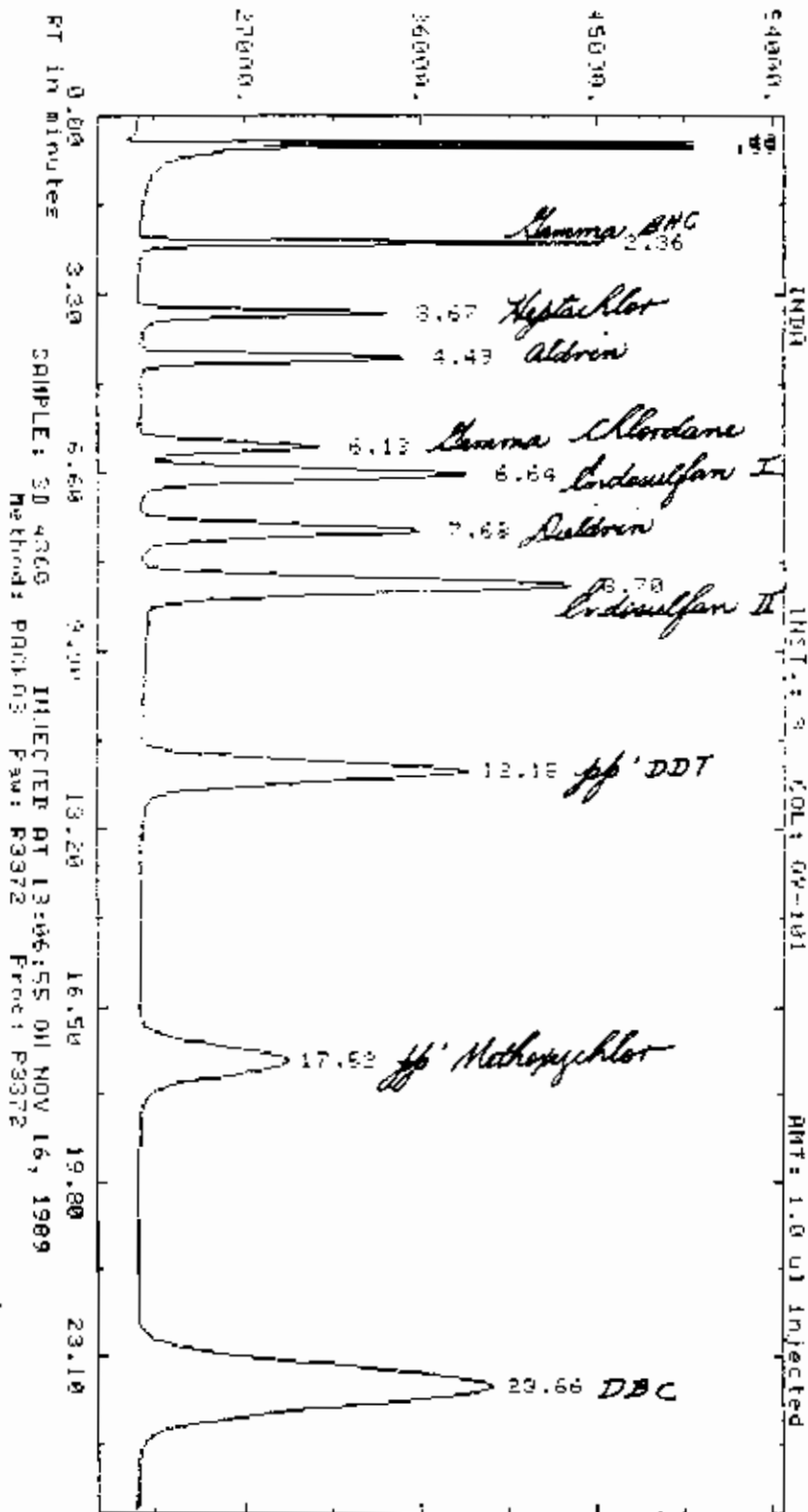


Report: 13492.00 Channel: 3 11024
 Sample: SD 4364 Injected at 13:43 ON NOV 16, 1989
 ZERO Method: PAK607 Seq: SEC73 Subse/Samp 1/66 DFI: 60
 Sl-Width 500 HV/Min .300 Delay 0.00 Non-Ac 3000 Bunch Auto
 Sup-Unk NO SvT 0.00 ID-Lvl 0 Ref-RTW .30 %RTW 5.0 %Dil-F 100.00 Iso NO

Actual run time: 76.000 minutes
 Ended out on baseline

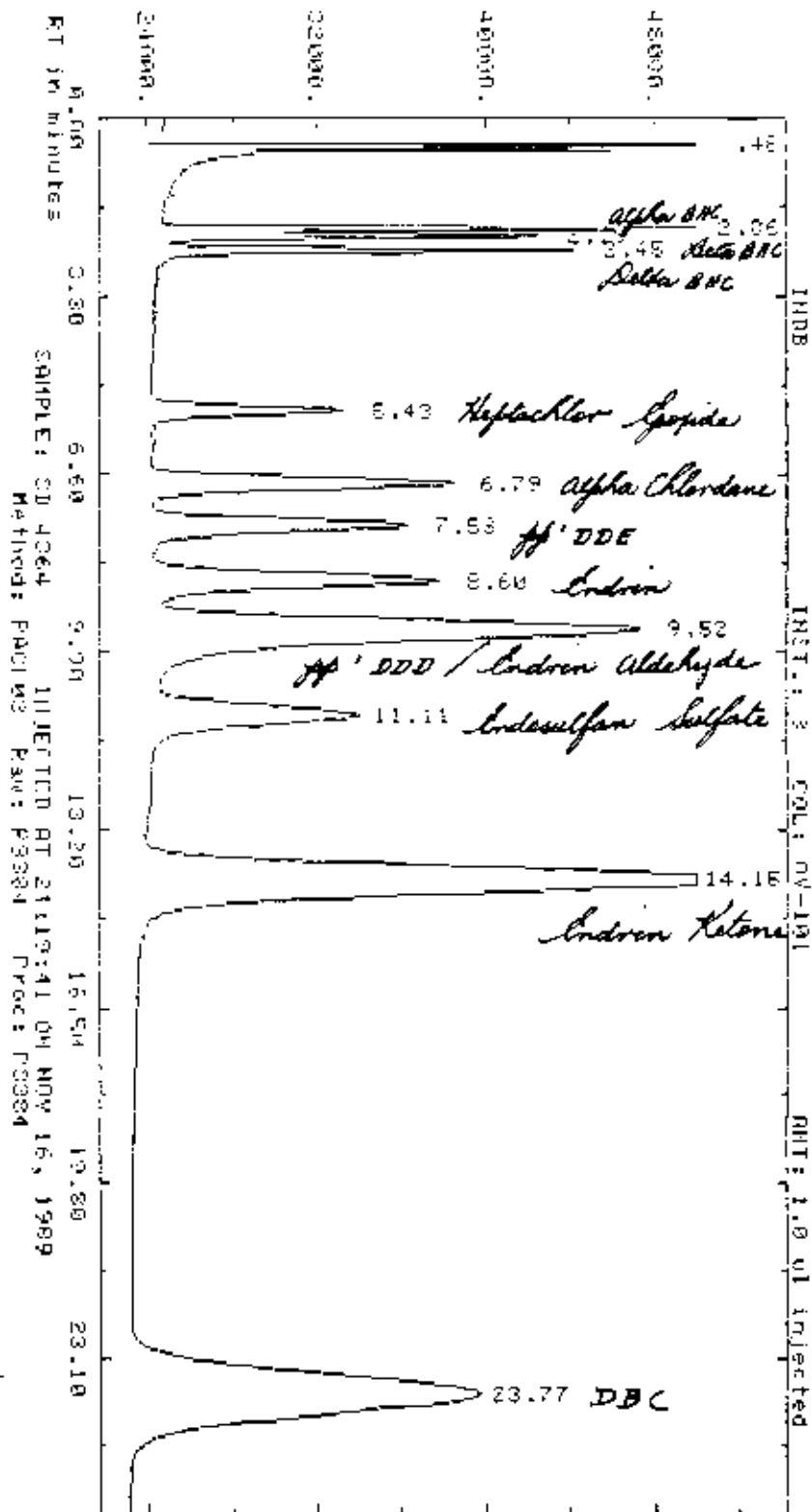
RT	ITM	Factor	Area		AREA X	Name
.49	0.00	.10500E+01	74189	R3	3.495	
2.06	0.00	.10000E+01	44900	R3	2.201	
2.20	0.00	.10000E+01	31355	R3	1.467	
2.46	0.00	.10000E+01	59887	R3	2.766	
5.45	0.00	.10000E+01	62748	R3	2.916	
6.81	0.00	.10000E+01	123017	R3	5.762	
7.61	0.00	.10000E+01	114340	R3	5.356	
9.63	0.00	.10000E+01	136414	R3	6.350	
9.66	0.00	.10000E+01	311923	R3	16.015	
11.15	0.00	.10000E+01	128255	R3	6.661	
14.20	0.00	.10000E+01	224712	R3	11.573	
23.81	0.00	.10000E+01	491262	R3	23.611	

Total Area = 2134940 Total AREA X = 491662.000
 Processed data file: P3360 Raw data file: R3360



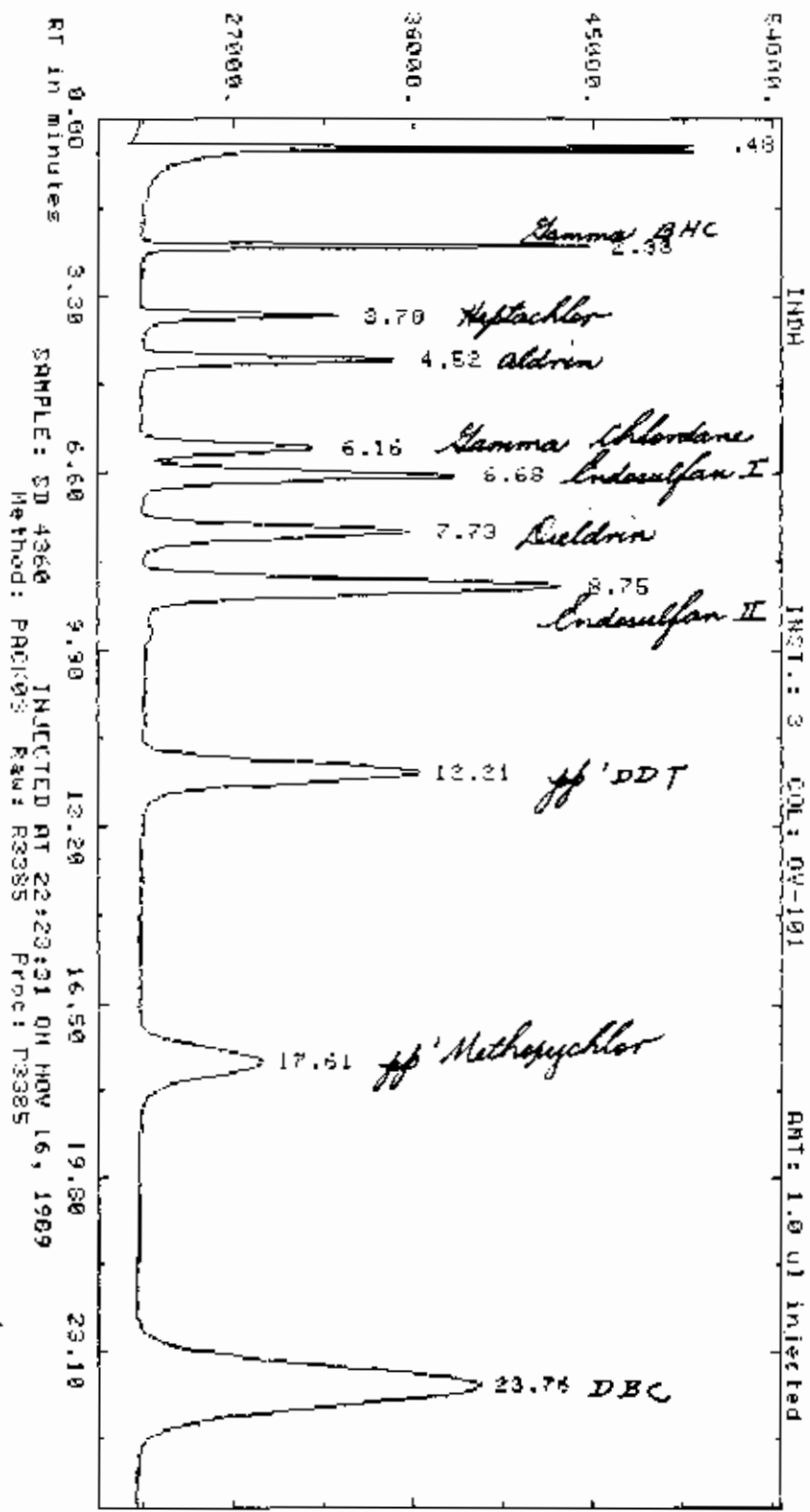
Report: 13510 00 Channel: 3 INH
 Sample: SD 4340 Injected at 13:06 55 ON NOV 16, 1987
 ZERO Method: PACK03 Seq: SEQ03 Subseq/Samp: 1/72 Kt1: 72
 Sl-width MV/Min Delay Min-Ax Injch
 .500 300 0.00 3000 Auto
 Sup-Blk DuT ID-F vl Ref-RTM CRTJ 201x-F Use
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.008 minutes
 Ended not on baseline

RT	JTH	Factor	Area	AREA %	base
.48	0.00	.10000E+01	62814.	RR	3.810
.59	0.00	.10000E+01	5822.	RR	.358
2.36	0.00	.10000E+01	66176.	RR	4.013
3.67	0.00	.10000E+01	56876.	RR	3.449
4.49	0.00	.10000E+01	68730.	RR	4.168
6.13	0.00	.10000E+01	55619.	RR	3.375
6.64	0.00	.10000E+01	41793.	RR	2.141
7.69	0.00	.10000E+01	12243.	RR	0.7420
8.70	0.00	.10000E+01	31889.	RR	1.9274
12.15	0.00	.10000E+01	22622.	RR	1.3720
17.52	0.00	.10000E+01	43574.	RR	2.655
23.66	0.00	.10000E+01	25874.	RR	1.618
Total Area =		1648056	Total AREA % =		49.244.000
Processed data file:		P3372	Raw data file:		P3372



Report: 13525 00 Channel: 3 1000
 Sample: SD 4364 Injected at 21:17:41 on Nov 16, 1987
 ZERO Method: PAKK03 Seq: SFG33 Subseq/Samp: 1/24 BY1: 04
 Sl-Width MU/Kin Delay Mic-Ap Runch
 500 .300 0.00 3000 Auto
 Sun-Link DvT ID-Lvl ReP-RTM XRTW 2011-F Iso
 NO 0.00 0 30 5.0 100.00 NO
 Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITH	Factor	Area	Area %	Name
0.43	0.00	1.0000E+00	68473.	3.534	PR
0.86	0.00	1.0000E+04	43575.	2.249	PR
1.19	0.00	1.0000E+04	22647.	1.180	PR
1.45	0.00	1.0000E+04	53745.	2.774	PR
1.72	0.00	1.0000E+04	87260.	4.549	PR
2.07	0.00	1.0000E+04	109411.	5.647	PR
2.50	0.00	1.0000E+04	121714.	6.281	PR
2.89	0.00	1.0000E+04	13586.	0.707	PR
3.52	0.00	1.0000E+04	773554.	40.600	PR
11.13	0.00	1.0000E+04	121037.	6.246	PR
11.15	0.00	1.0000E+04	470300.	24.654	PR
23.77	0.00	1.0000E+04	448349.	23.122	PR
Total Area =			1937591	Total Area % =	44609.000
Processed data file:			P3384	Raw data file:	R3384



Report: 13526.00 Channel: 3 INDA
 Sample: SD 4360 Injected at 22:23:31 ON NOV 16, 1989
 ZERO Method: PACK03 Seq: SEQ33 Subsq/Samp: 1/25 Brl: 85
 Sl-Width HU/Min Delay Min-Or Bunch
 .500 .300 0.00 3000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW %Dil-f Iso
 NO 0.00 0 0.30 5.0 100.00 NO

Actual run time: 26.000 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
2.49	0.00	.10000E+01	20309.88	4.646	BB
2.38	0.00	.10000E+01	63380.88	4.188	BB
3.70	0.00	.10000E+01	44044.88	2.711	BB
4.52	0.00	.10000E+01	64740.88	4.278	BB
6.16	0.00	.10000E+01	53034.88	3.505	BB
6.68	0.00	.30000E+01	111237.88	7.351	BB
7.73	0.00	.10000E+01	113531.88	7.621	BB
8.75	0.00	.10000E+01	208854.88	13.789	BB
12.21	0.00	.10000E+01	188028.88	12.425	BB
17.61	0.00	.10000E+01	123463.88	8.159	BB
23.76	0.00	.30000E+01	471023.88	31.127	BF
Total Area =			1513246.	Total AREA % = 471023.000	
Processed data file: P3385			Raw data file: R3385		

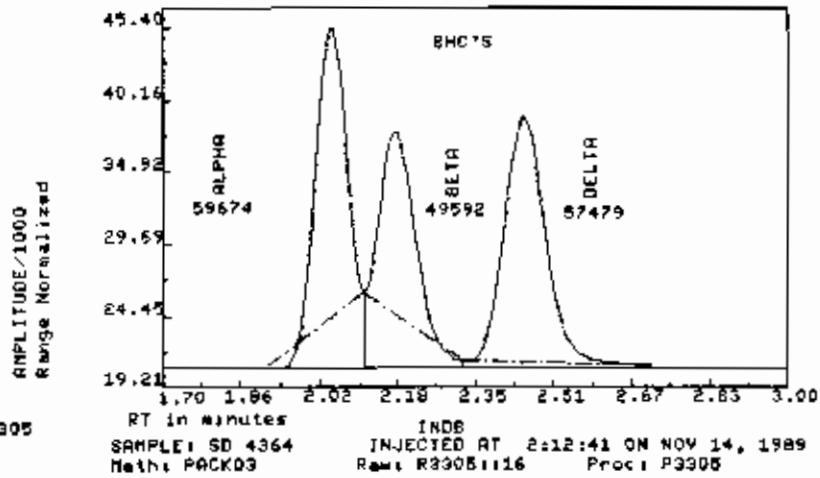
RESULTS OF MANUAL INTEGRATION FROM CPlot

RAW DATA FILE: R53051116

INJECTED AT: 2:12:41 ON NOV 14, 1989

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	1.96	2.12	59674	35.8
2	2.12	2.32	49592	29.7
3	2.32	2.75	57479	34.5



RESULTS OF MANUAL INTEGRATION FROM CPLDT

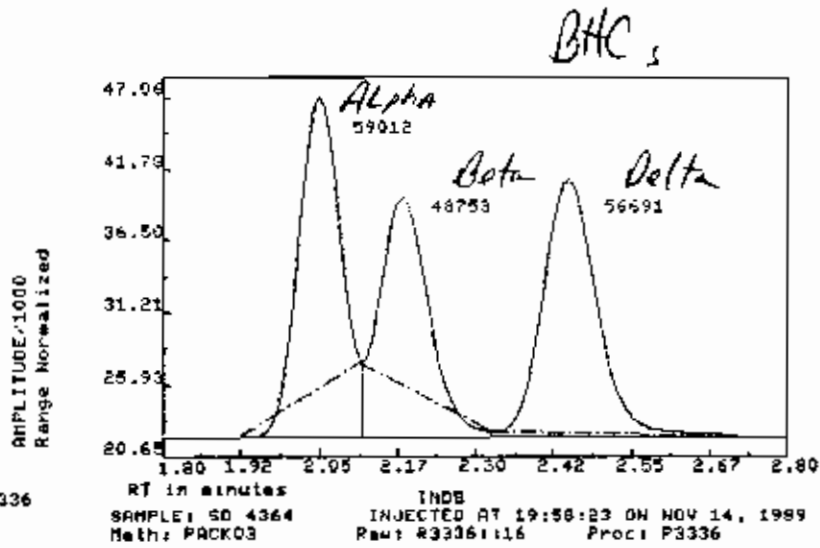
RAW DATA FILE: R3336:116

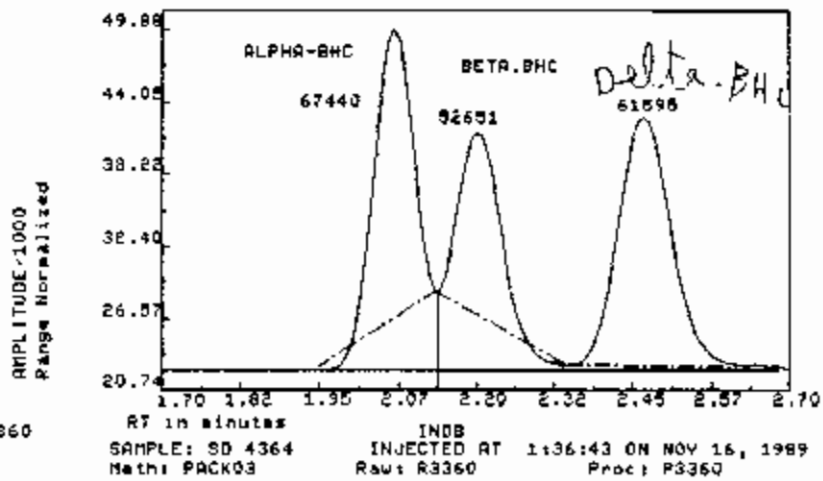
INJECTED AT: 19:58:23 ON NOV 14, 1989

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	1.95	2.12	59012	35.9
2	2.12	2.32	48753	29.6
3	2.32	2.71	56691	34.5

Select softkey



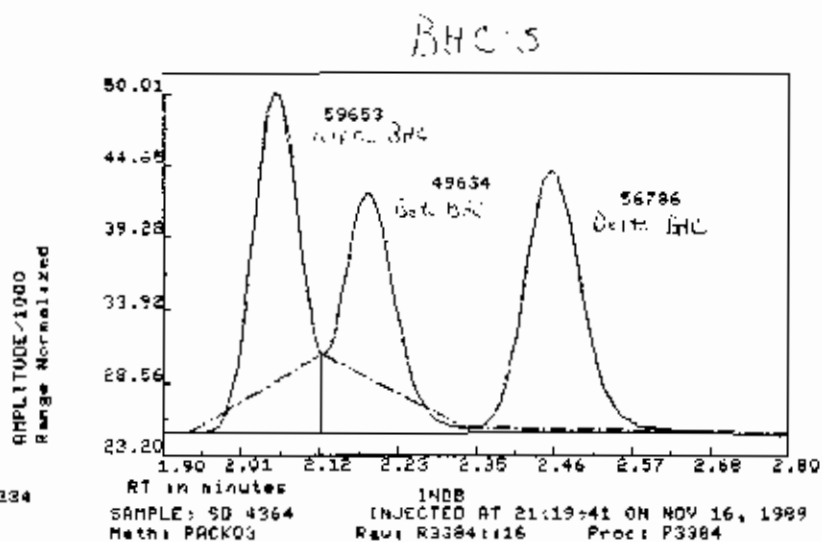


P3360

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	1.96	2.13	59653	35.9
2	2.13	2.34	49634	29.9
3	2.34	2.69	56786	34.2

Select softkey



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STANDARD COMPOUND CONCENTRATIONS

STD INDA	CONC(ug/ml)
Gamma BHC	0.010
Hepitachlor	0.010
Aldrin	0.010
Gamma Chlordane	0.010
Endosulfan I	0.010
Dieldrin	0.020
Endosulfan II	0.040
pp' DDT	0.060
pp' Methoxychlor	0.10

STD INDB	
Alpha BHC	0.010
Beta BHC	0.020
Delta BHC	0.010
Hepitachlor Epoxide	0.010
Alpha Chlordane	0.020
pp' DDE	0.020
Endrin	0.040
pp' DDD	0.040
Endrin Aldehyde	0.040
Endosulfan Sulfate	0.040
Endrin Ketone	0.10

MULTICOMPONENT STANDARDS

AR1650	1015	0.30
	1250	0.30
AR1221		1.0
AR1232		0.70
AR1242		0.40
AR1248		0.40
AR1254		0.30
TOXAPH		1.0

EVALUATION MIX STANDARDS

COMPOUND	EVALA	EVALB	EVALC
Aldrin	0.0020	0.0050	0.010
Endrin	0.0000	0.020	0.040
DDT	0.0125	0.030	0.060
DDE	0.020	0.060	0.10

SEQUENCE NAME - SEQ33

CALIB. STD LOT OV-101

L.U. REF 16

CHANNEL # 3

DATE STARTED _____

INSTRUMENT # 77

DATE FINISHED _____

TYPE(S) OF ANALYSIS PEST

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
EVALA	01	EVALA		0:19:22 ON NOV 14, 1989
EVALB	02	EVALB		0:47:41 ON NOV 14, 1989
EVALC	03	EVALC		1:16:01 ON NOV 14, 1989
SD 4360	04	INDA		1:44:21 ON NOV 14, 1989
SD 4364	05	INDB		2:12:41 ON NOV 14, 1989
SD TOXA	06	TOXAPH		2:41:01 ON NOV 14, 1989
SD ARMX	07	AR1660		3:09:21 ON NOV 14, 1989
SD 1221	08	AR1221		3:37:41 ON NOV 14, 1989
SD 1232	09	AR1232		4:06:01 ON NOV 14, 1989
SD 1242	10	AR1242		4:34:20 ON NOV 14, 1989
SD 1248	11	AR1248		5:02:39 ON NOV 14, 1989
SD 1254	12	AR1254		5:30:59 ON NOV 14, 1989
CP 300189	13	18310 13	04SS001XX	8:59:35 ON NOV 14, 1989
CP 300191	14	18310 13	04SS002XX	9:27:55 ON NOV 14, 1989
CP 300197	15	18310 13	04SS003XX	9:56:15 ON NOV 14, 1989
CP 300199	16	18310 13	04SS004DP	10:24:34 ON NOV 14, 1989
PP 300876 B1	17	18358 1	PBLK65	10:52:54 ON NOV 14, 1989
EVALB	18	EVALB		11:21:13 ON NOV 14, 1989
PP 300877 B2	19	18358 1	PBLK66	11:49:33 ON NOV 14, 1989
PP 300758 O	20	18358 1	RECOVERYW	12:17:52 ON NOV 14, 1989
PP 300765 SS	21	18358 1	RECOVERYWMS	12:46:11 ON NOV 14, 1989
PP 300766 SS	22	18358 1	RECOVERYWMSD	13:14:30 ON NOV 14, 1989
PP 300767 BS	23	18358 1	BS	13:42:49 ON NOV 14, 1989
SD 4360	24	INDA		14:11:08 ON NOV 14, 1989
PP ALUM.BK34	25			14:39:28 ON NOV 14, 1989
CP 299419R	26	18244 77	SED-P8-1MS	15:07:47 ON NOV 14, 1989
CP 299420 SS	27	18244 77	SED-P8-1MSD	15:36:07 ON NOV 14, 1989
CP 299411	28	18244 77	SED-N1-1	16:04:27 ON NOV 14, 1989
CP 300118 B	29	18244 77	PBLK29	16:32:47 ON NOV 14, 1989
EVALB	30	EVALB		17:01:08 ON NOV 14, 1989
CP 29941B	31	18244 77	SED-N2-1	17:36:45 ON NOV 14, 1989
CP 299422	32	18244 77	SED-N3-1	18:05:05 ON NOV 14, 1989
CP 299423	33	18244 77	SED-N11-1	18:33:24 ON NOV 14, 1989
CP 299424	34	18244 77	SED-D7-1	19:01:44 ON NOV 14, 1989

SEQUENCE NAME - SEQ33

CALIB. STD LOT OV-101

L.U. REF 16

CHANNEL # 3

DATE STARTED

INSTRUMENT # ??

DATE FINISHED

TYPE(S) OF ANALYSIS PEST

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
CP 299425	35	18244 77	SED-D10-1	19:30:03 ON NOV 14, 1989
SD 4364	36	INDB		19:58:23 ON NOV 14, 1989
CP 299426	37	18244 77	SEO-S4-1	20:49:16 ON NOV 14, 1989
CP 299427	38	18244 77	SED-S5-1	21:17:35 ON NOV 14, 1989
CP 299428	39	18244 77	SED-S6-1	21:45:55 ON NOV 14, 1989
CP 299429	40	18244 77	SED-DUP-1	22:14:14 ON NOV 14, 1989
CP 299630 B	41	18244 77	SED-P8-1	22:42:34 ON NOV 14, 1989
EVALB	42	EVALB		23:10:54 ON NOV 14, 1989
CP 299635	43	18244 77	SED-D9-1	23:39:13 ON NOV 14, 1989
PP 300876 B1	44	18358 1	PBLK65	0:07:31 ON NOV 15, 1989
CP 300304	45	13060 BCC24	BCC29	0:35:51 ON NOV 15, 1989
CP 300306	46	13060 BCC24	BCC30	1:04:10 ON NOV 15, 1989
PP 300197	47	18310 13	04SS003XX	1:32:30 ON NOV 15, 1989
SD 4360	48	INDA		9:02:06 ON NOV 15, 1989
PP 300199	49	18310 13	04SS004DP	10:15:35 ON NOV 15, 1989
PP 301917 O	50	18410 5	738001-D1	20:14:44 ON NOV 15, 1989
PP 298960 O	51	17442 24	GWR102-91	21:09:27 ON NOV 15, 1989
PP 301927 SS	52	18410 5	738001-01MSD	21:37:47 ON NOV 15, 1989
PP 301928 BS	53	18410 5	BS	22:06:06 ON NOV 15, 1989
EVALB	54	EVALB		22:34:26 ON NOV 15, 1989
PP 301909	55	18410 5	738001-12	23:15:05 ON NOV 15, 1989
PP 301910	56	18410 5	738001-02	23:43:25 ON NOV 15, 1989
PP 301918	57	18410 5	738001-03	0:11:45 ON NOV 16, 1989
PP 301922	58	18410 5	738001-08	0:40:04 ON NOV 16, 1989
PP 301989 B1	59	18410 5	PBLK03	1:08:23 ON NOV 16, 1989
SD 4364	60	INDB		1:36:43 ON NOV 16, 1989
PP 301937	61	18410 5	738001-05	2:05:02 ON NOV 16, 1989
PP 301938	62	18410 5	738001-10	2:33:21 ON NOV 16, 1989
PP 301939	63	18410 5	738001-06	3:01:41 ON NOV 16, 1989
PP ALU B#50	64			3:29:59 ON NOV 16, 1989
PP 301990 B2	65	18410 5	PBLK04	3:58:19 ON NOV 16, 1989
EVALB	66	EVALB		4:26:38 ON NOV 16, 1989
PP 301926 SS	67	18410 5	738001-01MS	4:54:58 ON NOV 16, 1989
PP 202341 B1	68	18381 1	PBLK07	10:32:35 ON NOV 16, 1989

SEQUENCE NAME - SEQ33

CALIB. STD LOT OV-101

L.U. REF 16

CHANNEL # 3

DATE STARTED

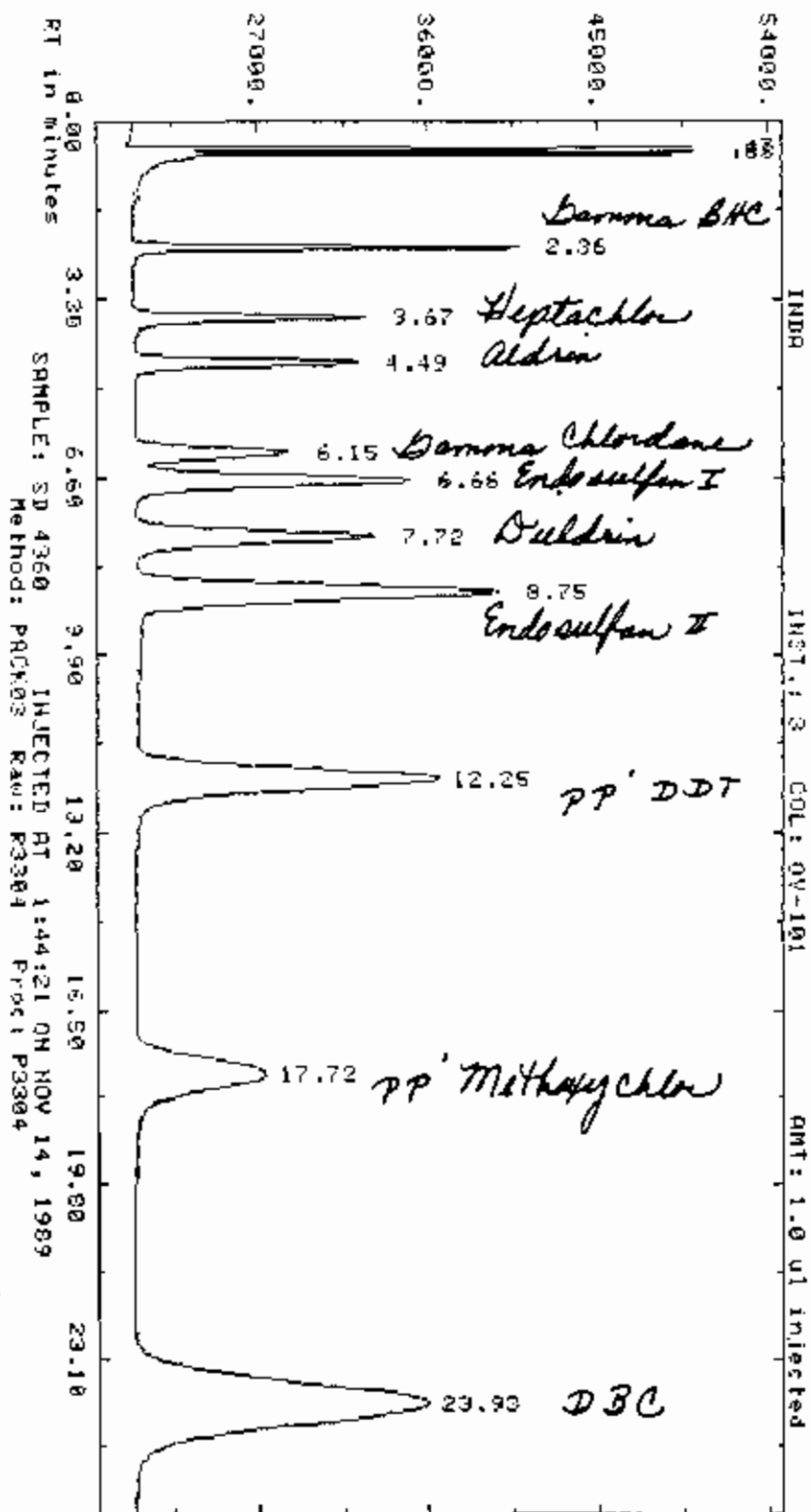
INSTRUMENT # ??

DATE FINISHED

TYPE(5) OF ANALYSIS PEST

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBSR	INJECTION TIME
PP 301888 SS	69	18381 1	MW-4MSD	11:41:58 ON NOV 16, 1989
PP 301887 SS	70	18381 1	MW-4MS	12:10:17 ON NOV 16, 1989
PP 302342 B2	71	18381 1	PBLK08	12:38:36 ON NOV 16, 1989
SD 4360	72	INDA		13:06:55 ON NOV 16, 1989
PP 301877	73	18381 1	MW-4	13:35:15 ON NOV 16, 1989
PP 301889 BS	74	18381 1	BS	14:03:35 ON NOV 16, 1989
PP ALUM.BK52	75			14:31:55 ON NOV 16, 1989
PP 302343 B1	76	TEST 0	PBLK09	15:00:15 ON NOV 16, 1989
PP 302344 B2	77	TEST 0	PBLK10	15:28:35 ON NOV 16, 1989
EVALB	78	EVALB		16:01:15 ON NOV 16, 1989
PP 301752	79	TEST 0	T-WHSE11	16:29:35 ON NOV 16, 1989
PP ALUM.BK53	80			16:57:54 ON NOV 16, 1989
CP 301739 B	81	18210 1	PBLK86	19:54:42 ON NOV 16, 1989
CP297247R2SS	82	18210 1	9168TR121MS	20:23:02 ON NOV 16, 1989
CP297248R2SS	83	18210 1	9168TR121MSD	20:51:22 ON NOV 16, 1989
SD 4364	84	INDB		21:19:41 ON NOV 16, 1989
SD 4360	85	INDA		22:23:31 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INO		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989
		INDB		22:51:50 ON NOV 16, 1989

AMPLITUDE x.25 uV-seconds (Enlarged x 2.27)



Report: 13436.00 Channel: 3 INDA
 Sample: SD 4360 Injected at 1:44:21 ON NOV 14, 1987
 ZERO Method: PACK03 Seq: SEQ33 Subsq/Samp: 1/4 Btl: 4
 Sl-Width HV/Min Delay Min-Ar Bunch
 .500 .300 0.00 3000 Auto
 Sup-Hnk DvT ID-Lvl Ref-RTW ZRTW ZDil-f Iso
 NO 0.00 0 Rep-RTW 5.0 100.00 NO

Actual run time: 26.008 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.47	0.00	.10000E+01	62138.	BB	4.047
.58	0.00	.10000E+01	33867.	BB	2.206
2.36	0.00	.10000E+01	57834.	BB	3.767
3.67	0.00	.10000E+01	53937.	BB	3.513
4.49	0.00	.10000E+01	60477.	BB	3.939
5.15	0.00	.10000E+01	48569.	BB	3.163
6.66	0.00	.10000E+01	103698.	BB	6.754
7.72	0.00	.10000E+01	102688.	BB	6.744
8.75	0.00	.10000E+01	198618.	BB	12.937
12.25	0.00	.10000E+01	225060.	BB	14.659
17.72	0.00	.10000E+01	143027.	BB	9.316
23.93	0.00	.10000E+01	438416.	BF	28.555

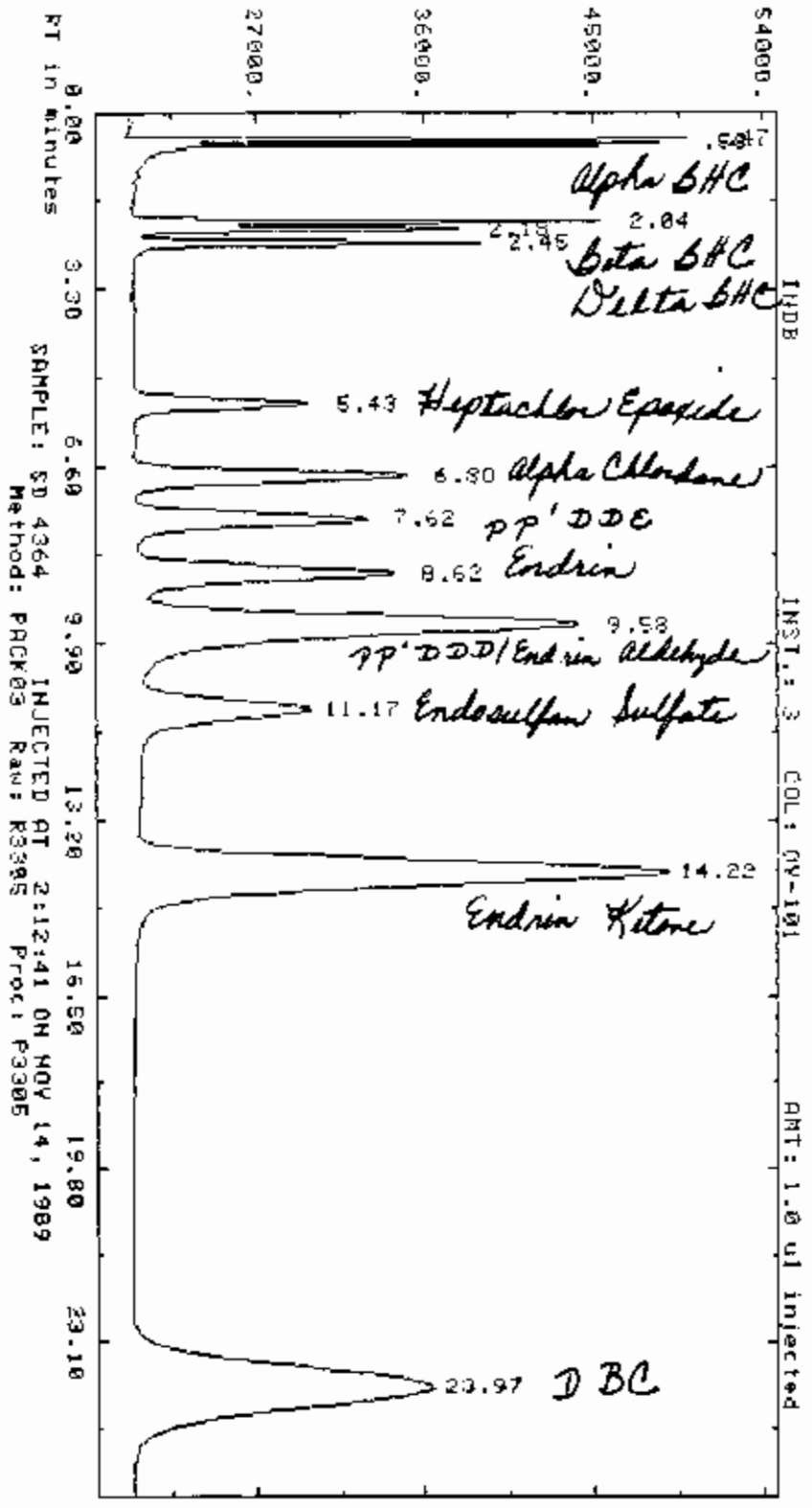
Total Area = 1535331

Total AREA % = 438416.000

Processed data file: P3304

Raw data file: R3304

AMPLITUDE x.25 uV-seconds (Enlarged x 2.64)

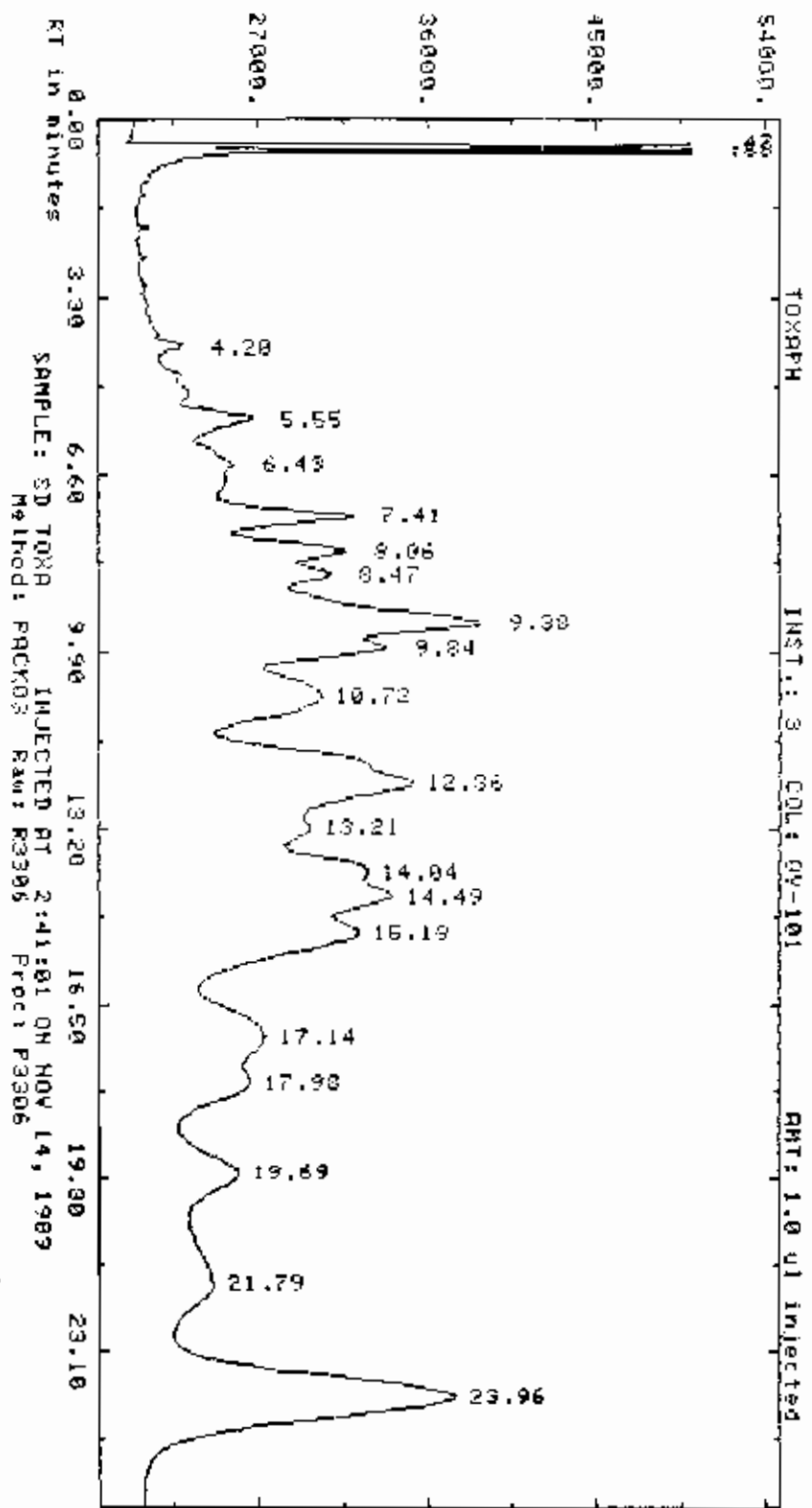


Report: 13437.00 Channel: 3 INDE
 Sample: SD 4364 Injected at 2:12:41 ON NOV 14, 1989
 ZERO Method: PACK03 Seq: SEQ33 Subsq/Samp: 1/ 5 Btl: 5
 Sl-Width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 3000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
 NO 0.00 0 .50 5.0 100.00 NO
 Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.47	0.00	.10000E+01	76590.	BB	3.867
.58	0.00	.10000E+01	10078.	BB	.953
2.04	0.00	.10000E+01	42508.	BB	2.146
2.18	0.00	.10000E+01	29370.	BB	1.463
2.43	0.00	.10000E+01	53281.	BB	2.670
5.43	0.00	.10000E+01	56589.	BB	2.878
6.80	0.00	.10000E+01	112899.	BB	5.701
7.62	0.00	.10000E+01	186263.	BB	9.365
8.62	0.00	.10000E+01	129647.	BB	6.546
9.58	0.00	.10000E+01	312024.	BB	15.755
11.17	0.00	.10000E+01	113977.	BB	5.755
14.22	0.00	.10000E+01	460735.	BB	24.274
23.97	0.00	.10000E+01	447334.	BF	22.587

Total Area = 1990405. Total AREA % = 447334.000
 Processed data file: P3305 Raw data file: R3305

AMPLITUDE x.25 uV-seconds (Enlarged x 1.95)

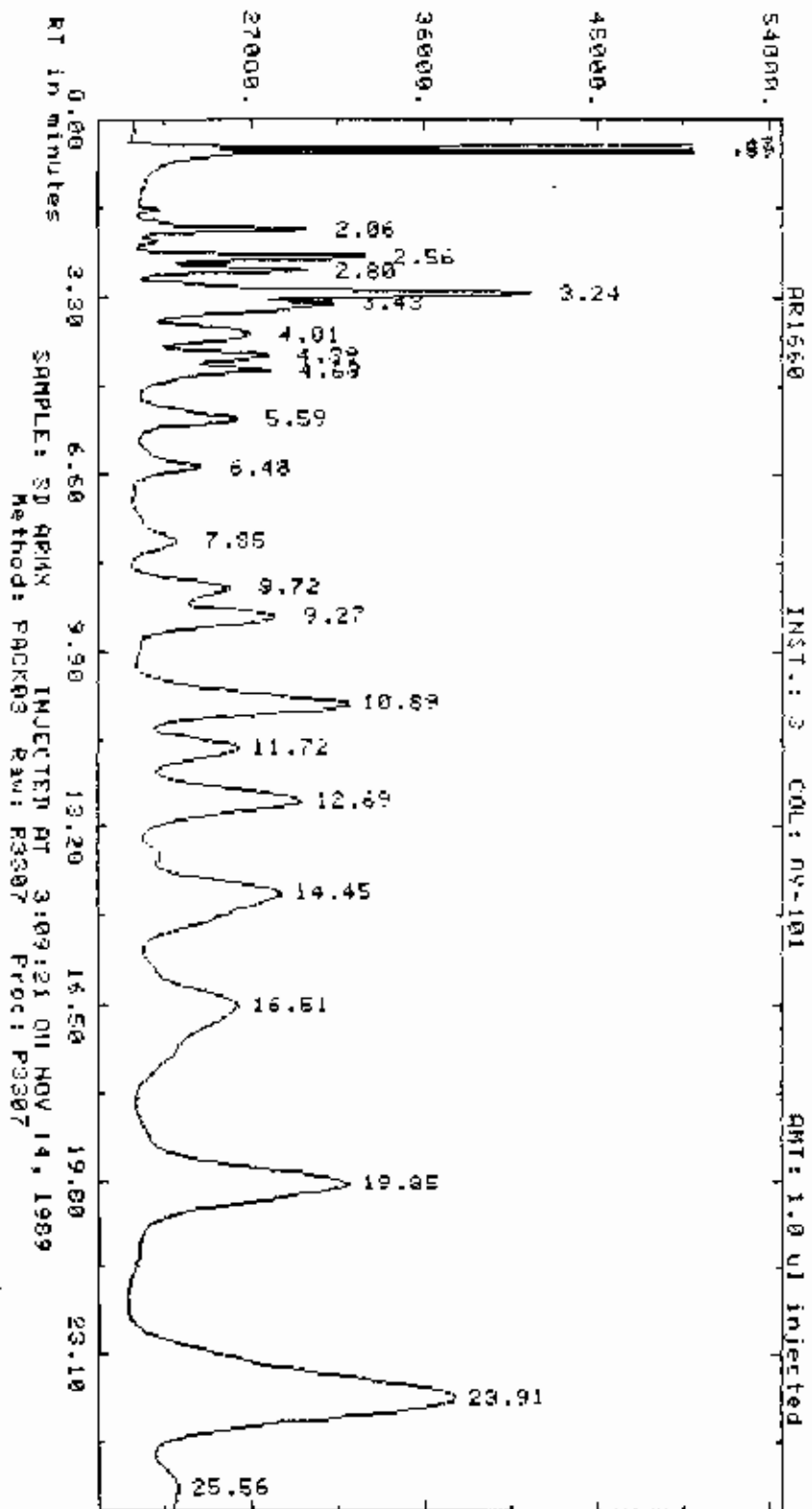


Report: 13439.00 Channel: 3 TOXSPH
 Sample: SD TOXA Injected at 2:41:01 CN HDU 14, 1989
 ZERO Method: PACK03 Seq: SEQ33 Subsq/Samp: 1/ 6 Btl: 6
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 3000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTU ZRTW ZDil-f Iso
 NO 0.00 0 0.30 5 0 100.00 NO

Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.47	0.00	.10000E+01	67946.	BB	4.954
.58	0.00	.10000E+01	59183.	BB	4.315
4.20	0.00	.10000E+01	9221.	BB	.672
5.55	0.00	.10000E+01	33444.	BB	2.439
6.43	0.00	.10000E+01	2072.	BB	.589
7.41	0.00	.10000E+01	57299.	BB	4.178
8.06	0.00	.10000E+01	31788.	BB	2.318
8.47	0.00	.10000E+01	13322.	BB	.971
9.38	0.00	.10000E+01	90274.	BB	6.584
9.84	0.00	.10000E+01	16853.	BB	1.275
10.72	0.00	.10000E+01	37008.	BB	2.714
12.36	0.00	.10000E+01	194001.	BB	14.146
13.21	0.00	.10000E+01	6690.	BB	.488
14.04	0.00	.10000E+01	12060.	BB	.879
14.49	0.00	.10000E+01	22096.	BB	1.611
15.18	0.00	.10000E+01	43228.	BB	3.152
17.14	0.00	.10000E+01	47693.	BB	3.492
17.98	0.00	.10000E+01	20315.	BB	1.481
19.69	0.00	.10000E+01	65735.	BB	4.793
21.79	0.00	.10000E+01	13783.	BB	1.022
23.96	0.00	.10000E+01	429213.	BF	31.296
Total Area =		1371448	Total AREA % =		429212.750
Processed data file: P3306			Raw data file: R3306		

AMPLITUDE x.25 uV-seconds (Enlarged x 2.12)



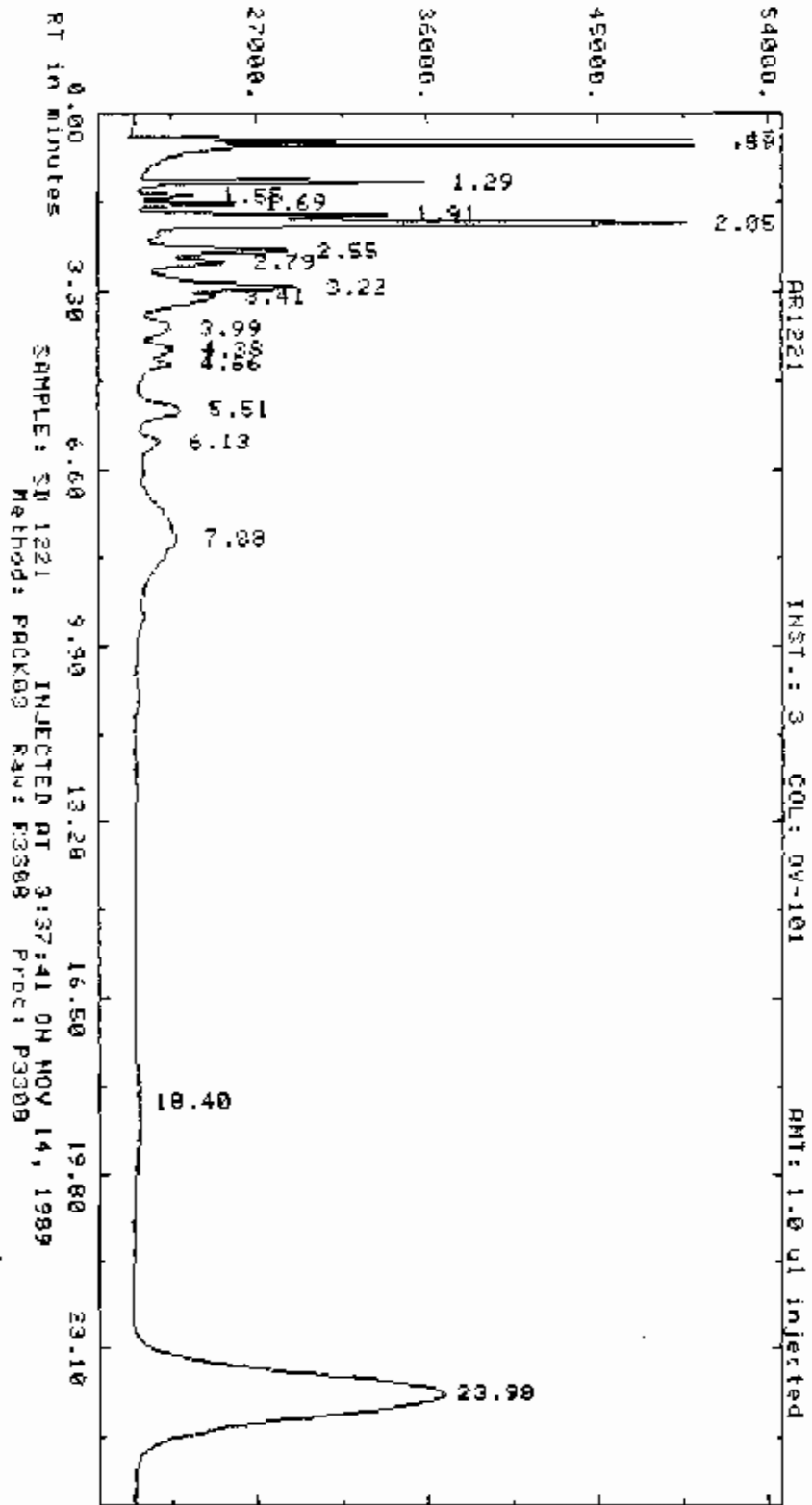
Report: 13439.00 Channel: 3 AR1660
 Sample: SD ARMX Injected at 3:09:21 ON NOV 14, 1989
 ZERO Method: PACK03 Seq: 00033 Subsq/Samp: 1/7 Btl: 7
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 3000 Auto
 Sup-Unk DuT ID-Lvl Ref-RTW XRTW XDil-F Iso
 NO 0.00 0 0.30 5.0 100.00 NO

Actual run time: 26.017 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
3.47	0.00	1.0000E+01	48250.	2.491	BB
3.59	0.00	1.0000E+01	57830.	2.986	BB
3.66	0.00	1.0000E+01	20706.	1.069	BB
3.72	0.00	1.0000E+01	34331.	1.773	BB
3.80	0.00	1.0000E+01	22297.	1.151	BB
3.84	0.00	1.0000E+01	56811.	2.933	BB
3.91	0.00	1.0000E+01	24783.	1.280	BB
4.01	0.00	1.0000E+01	37795.	1.952	BB
4.39	0.00	1.0000E+01	22049.	1.138	BB
4.68	0.00	1.0000E+01	19119.	.987	BB
5.39	0.00	1.0000E+01	44495.	2.297	BB
6.48	0.00	1.0000E+01	30182.	1.558	BB
7.65	0.00	1.0000E+01	28370.	1.465	BB
8.72	0.00	1.0000E+01	28407.	1.467	BB
9.27	0.00	1.0000E+01	38411.	1.983	BB
10.89	0.00	1.0000E+01	144163.	7.444	BB
11.72	0.00	1.0000E+01	49178.	2.539	BB
12.69	0.00	1.0000E+01	116164.	5.998	BB
14.45	0.00	1.0000E+01	143854.	7.428	BB
16.51	0.00	1.0000E+01	164720.	8.505	BB
19.63	0.00	1.0000E+01	293172.	15.138	BB
23.91	0.00	1.0000E+01	502454.	25.944	BB
25.56	0.00	1.0000E+01	9180.	.474	BB

Total Area = 1936720. Total AREA % = 9179.625
 Processed data file: P3307 Raw data file: R3307

AMPLITUDE x.25 uV-seconds (Enlarged x 3.12)



Report: 13440.00 Channel: 3 AR1221
 Sample: SD 1221 Injected at 3:37:41 ON NOV 14, 1989
 ZERO Method: PACK03 Seq: SEQ33 Subsq/Samp: 1/8 Pvl: 8
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 3000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
 NO 0.00 0 30 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.47	0.00	.10000E+01	32653	BB	3.816
.59	0.00	.10000E+01	63604	BB	7.434
1.29	0.00	.10000E+01	24716	BB	2.889
1.55	0.00	.10000E+01	4939	BB	.577
1.69	0.00	.10000E+01	9891	BB	1.156
1.91	0.00	.10000E+01	11848	BB	1.385
2.05	0.00	.10000E+01	59634	BB	6.970
2.35	0.00	.10000E+01	32521	BB	3.632
2.79	0.00	.10000E+01	8266	BB	.966
3.22	0.00	.10000E+01	32935	BB	3.680
3.41	0.00	.10000E+01	8516	BB	.995
3.99	0.60	.10000E+01	10425	BB	1.220
4.35	0.00	.10000E+01	6189	BB	.723
4.66	0.00	.10000E+01	4255	BB	.497
5.51	0.00	.10000E+01	20100	BB	2.356
6.13	0.00	.10000E+01	6392	BB	.747
7.88	0.00	.10000E+01	56900	BB	6.650
18.40	0.00	.10000E+01	16374	BB	1.917
23.98	0.00	.10000E+01	463408	BF	54.159

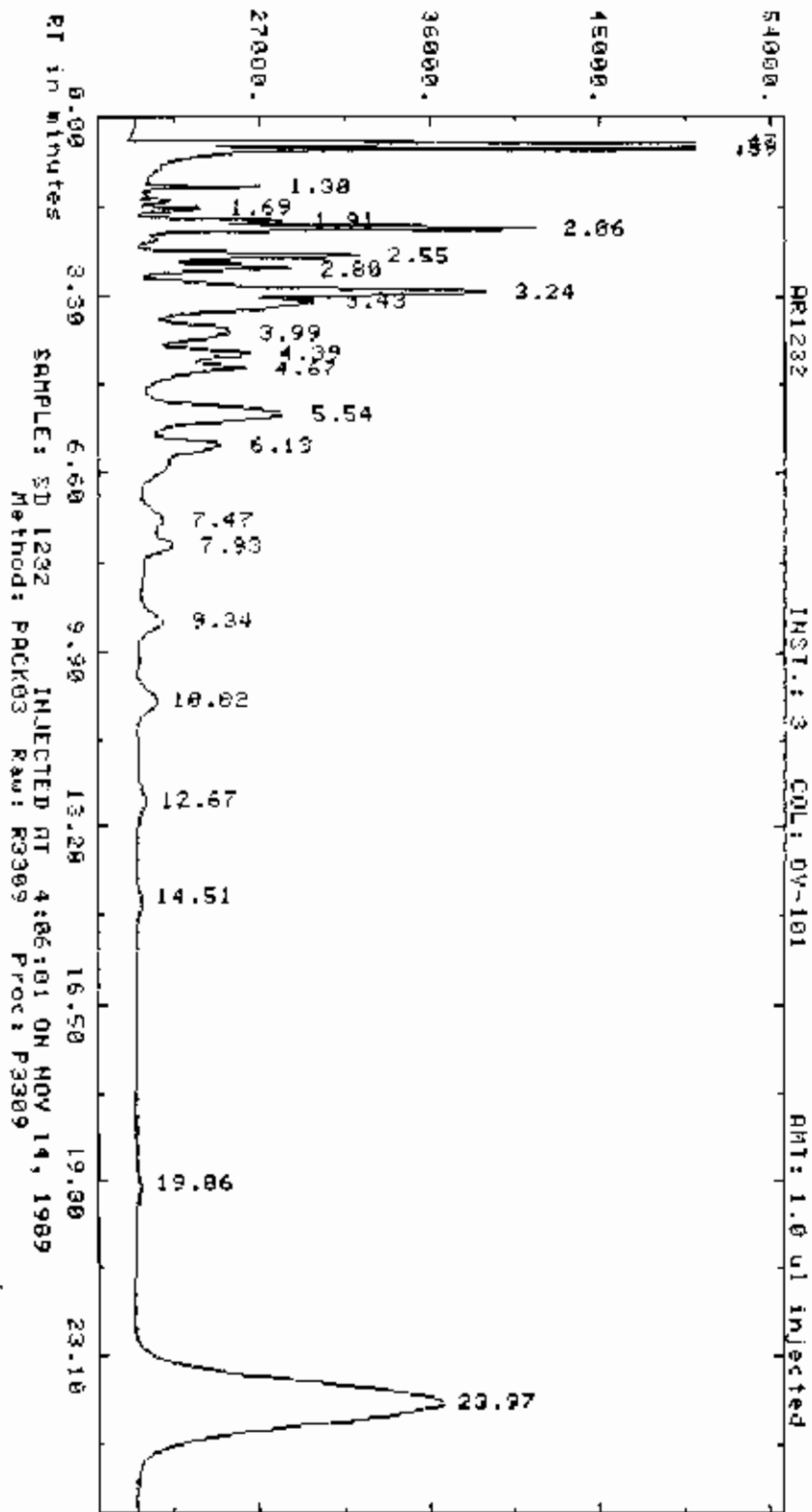
Total Area = 855638.

Total AREA % = 463408.500

Processed data file: P3308

Raw data file: R3308

AMPLITUDE x.25 uV-seconds (Enlarged x 2.02)



Report: 13441.00 Channel: 3 AR1232

Sample: SD 1232

Injected at 4:06:01 ON NOV 14, 1987

ZERO Method: PACK03

Seq: SEQ33

Subsq/Samp. 1/9

Btl: 9

Sl-width MU/Min Delay Min-Ar Bunch
.500 .300 0.00 3000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.47	0.00	.10000E+01	50548.	5.167	BB
.59	0.00	.10000E+01	64844.	6.628	BB
1.30	0.00	.10000E+01	7416.	.983	BB
1.69	0.00	.10000E+01	6139.	.628	BB
1.91	0.00	.10000E+01	6327.	.647	BB
2.06	0.00	.10000E+01	46090.	4.711	BB
2.55	0.00	.10000E+01	34184.	3.486	BB
2.80	0.00	.10000E+01	12492.	1.992	BB
3.24	0.00	.10000E+01	50316.	5.143	BB
3.43	0.00	.10000E+01	22315.	2.291	BB
3.99	0.00	.10008E+01	29840.	3.050	BB
4.39	0.00	.10000E+01	18930.	1.935	BB
4.67	0.00	.10000E+01	14129.	1.444	BB
5.54	0.00	.10000E+01	65379.	6.683	BB
6.13	0.00	.10000E+01	20772.	2.123	BB
7.47	0.00	.10000E+01	5079.	.519	BB
7.93	0.00	.10000E+01	8067.	.825	BB
9.34	0.00	.10000E+01	13934.	1.424	BB
10.82	0.00	.10000E+01	13891.	1.420	BB
12.67	0.00	.10000E+01	6358.	.650	BB
14.91	0.00	.10000E+01	5071.	.518	BB
19.86	0.00	.10000E+01	5478.	.562	BB
23.97	0.00	.10000E+01	461688.	47.182	BF

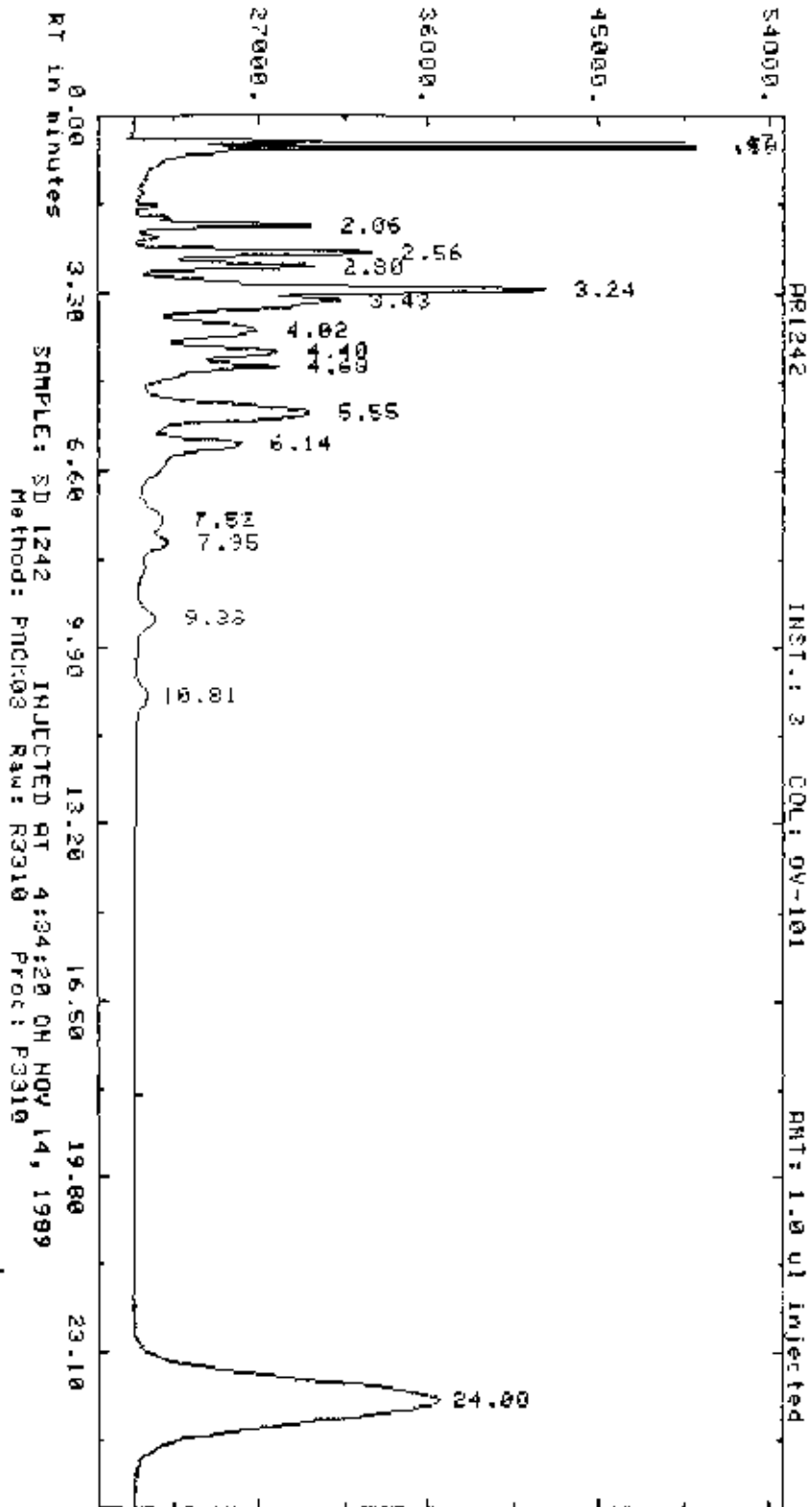
Total Area = 978351.

Total AREA % = 461800.000

Processed data file: P3309

Raw data file: R3309

AMPLITUDE x.25 uV-seconds (Enlarged x 1.97)

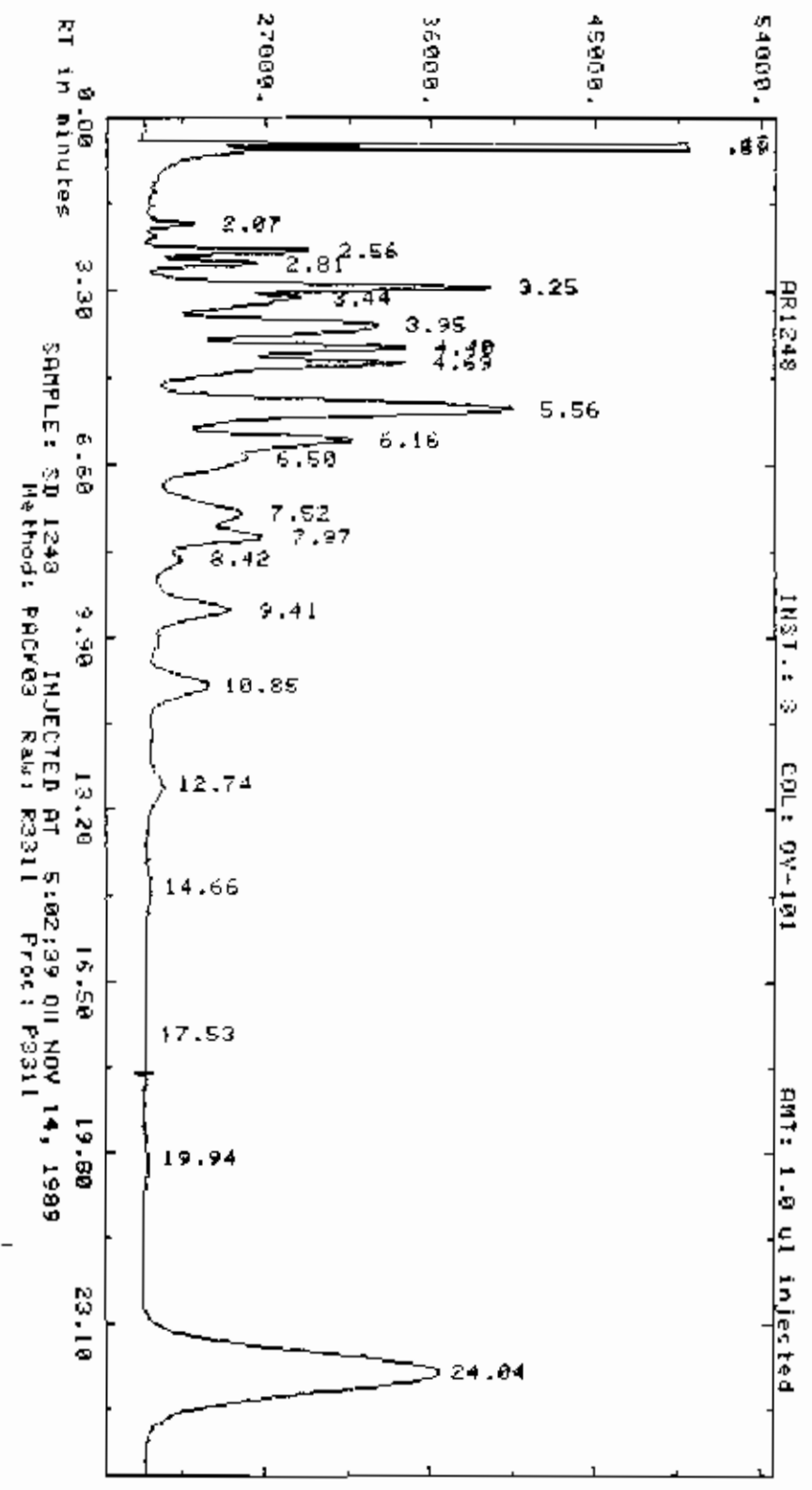


Report: 13442.00 Channel: 3 AR1242
 Sample: SD 1242 Injected at 4:34:20 ON NOV 14, 1989
 ZERO Method: PACK03 Seq: SEQ33 Subsq/Samp: 1/10 Ptl: 10
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 3000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
 NO 0 00 0 .30 5.0 100.00 NO
 Actual run time: 26.017 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.47	0.00	.10000E+01	26339.	BB	2.780
.59	0.00	.10000E+01	64571.	BB	6.815
2.06	0.00	.10000E+01	22096.	BB	2.332
3.56	0.00	.10000E+01	36331.	BB	3.834
3.80	0.00	.10000E+01	23537.	BB	2.484
3.24	0.00	.10000E+01	59101.	BB	6.237
3.43	0.00	.10000E+01	25735.	BB	2.716
4.02	0.00	.10000E+01	38357.	BB	4.051
4.40	0.00	.10000E+01	22879.	BB	2.415
4.63	0.00	.10000E+01	19658.	BB	2.075
5.55	0.00	.10000E+01	79267.	BB	8.366
6.14	0.00	.10000E+01	42446.	BB	4.480
7.52	0.00	.10000E+01	5716.	BB	.603
7.95	0.00	.10000E+01	6091.	BB	.643
9.38	0.00	.10000E+01	12259.	BB	1.298
10.81	0.00	.10000E+01	8736.	BB	.922
24.00	0.00	.10000E+01	454357.	BB	47.951

Total Area = 947547. Total AREA % = 454357.500
 Processed data file: P3310 Raw data file: R3310

AMPLITUDE x.25 uV-seconds (Enlarged x 2.19)



Report: 13443.00 Channel: 3 AR1348
 Sample: SD 1248 Injected at 5:02:39 ON NOV 14, 1989
 ZERO Method: PACK03 Seq: SEQ33 Subsq/Samp: 1/11 Ptl: 11
 Sl-width MU/Min Delay Min-Ar Bunch
 500 .300 0.00 3000 Auto
 Sup-Unk Det ID-Lvl Ref-RTW ZRTW %Dil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.47	0.00	.10000E+01	40782.	BB	3.246
.59	0.00	.10000E+01	69968.	BB	5.569
.87	0.00	.10000E+01	6032.	BB	.480
.96	0.00	.10000E+01	26318.	BB	2.095
1.01	0.00	.10000E+01	16298.	BB	1.290
1.25	0.00	.10000E+01	50582.	BB	4.010
1.44	0.00	.10000E+01	20135.	BB	1.603
1.95	0.00	.10000E+01	81570.	BB	6.492
2.40	0.00	.10000E+01	45962.	BB	3.658
2.69	0.00	.10000E+01	45692.	BB	3.637
3.56	0.00	.10000E+01	176546.	BB	14.051
4.16	0.00	.10000E+01	47989.	BB	3.819
4.50	0.00	.10000E+01	5839.	BB	.465
5.52	0.00	.10000E+01	20314.	BB	1.617
7.97	0.00	.10000E+01	24761.	BB	1.971
8.42	0.00	.10000E+01	4536.	BB	.363
9.41	0.00	.10000E+01	52935.	BB	4.213
10.85	0.00	.10000E+01	41635.	BB	3.314
12.74	0.00	.10000E+01	11307.	BB	.900
14.66	0.00	.10000E+01	5018.	BB	.403
17.53	0.00	.10000E+01	3827.	BB	.305
19.94	0.00	.10000E+01	3912.	BB	.311
24.04	0.00	.10000E+01	453989.	BB	36.132

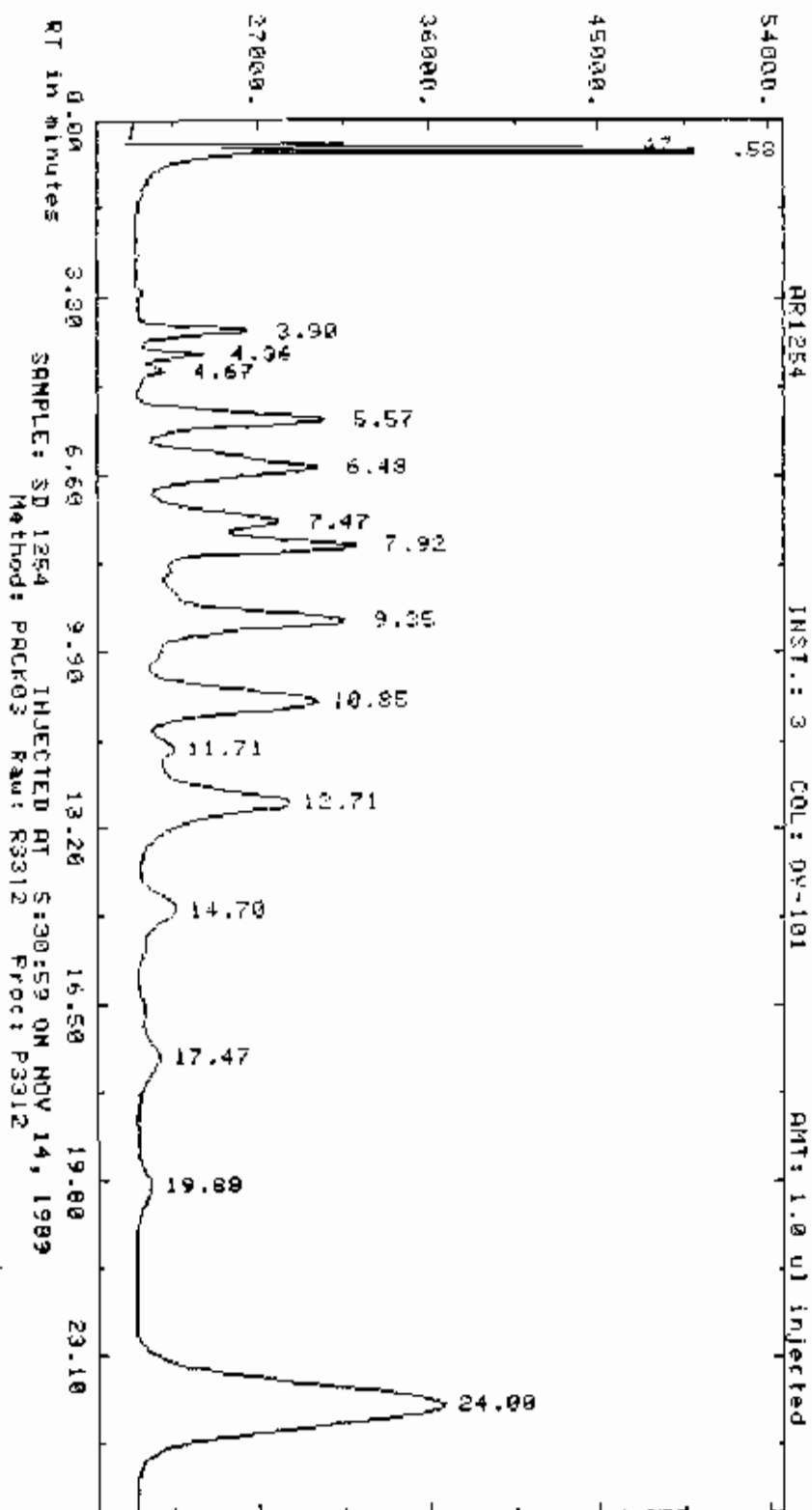
Total Area = 1256478.

Total AREA % = 453989.000

Processed data file: P3311

Raw data file: R3311

AMPLITUDE x.25 uV-seconds (Enlarged x 2.17)



Report: 13444.00 Channel: 3 AR1254
 Sample: SD 1254 Injected at 5:30:59 ON NOV 14, 1989
 ZERO Method: PACK03 Seq: SEQ33 Subsq/Samp: 1/12 Btl: 12
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 300 0.00 3000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-F Iso
 NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

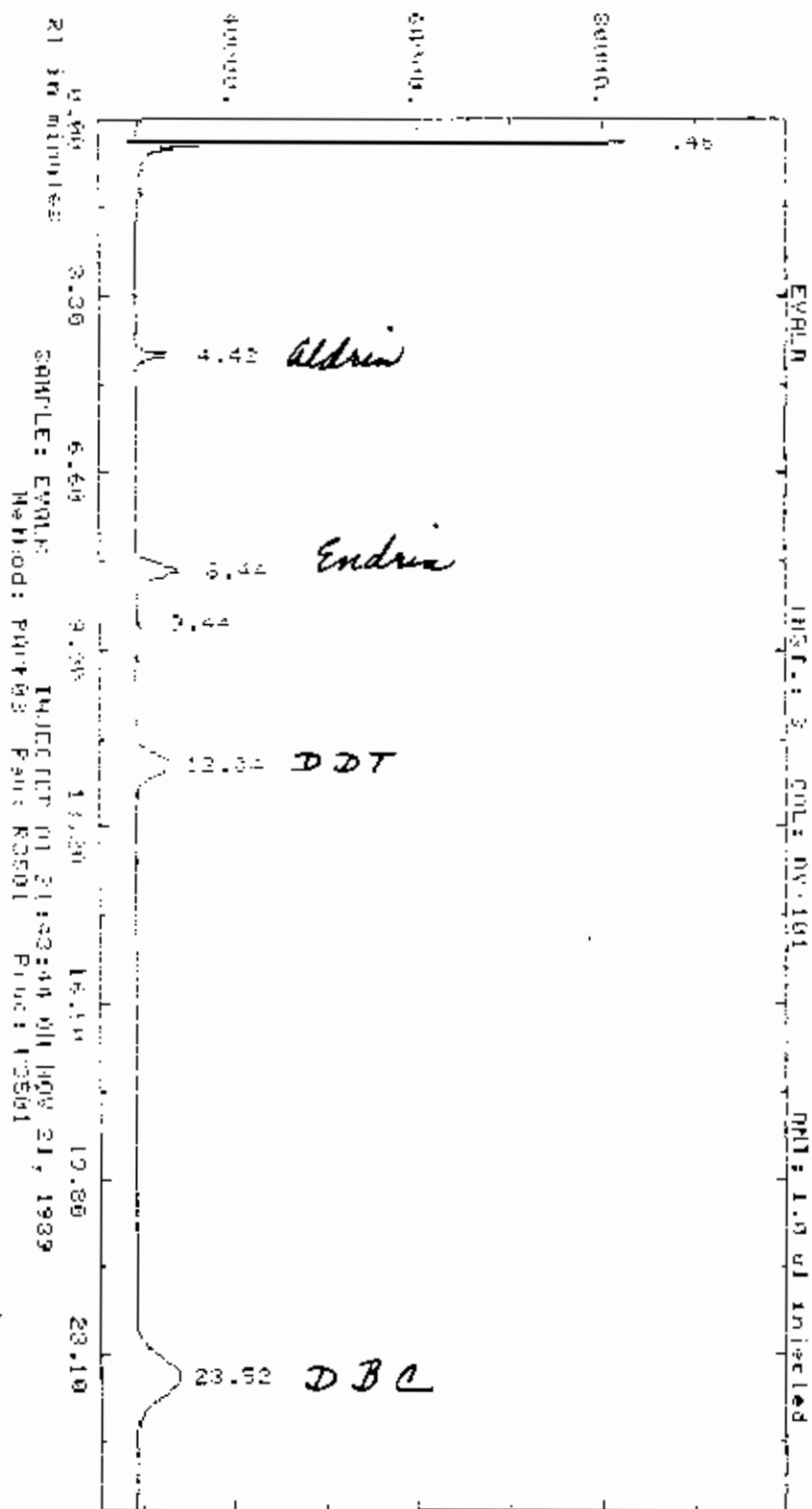
RT	ITM	Factor	Area		AREA %	Name
.47	0.00	.10000E+01	25405.	BB	1.878	
.58	0.00	.10000E+01	56213.	BB	4.155	
3.90	0.00	.10000E+01	30642.	BB	2.268	
4.36	0.00	.10000E+01	13853.	BB	1.024	
4.67	0.00	.10000E+01	4312.	BB	.319	
5.57	0.00	.10000E+01	85330.	BB	6.308	
6.46	0.00	.10000E+01	110624.	BB	8.179	
7.47	0.00	.10000E+01	30462.	BB	2.252	
7.92	0.00	.10000E+01	61699.	BB	4.561	
9.35	0.00	.10000E+01	127902.	BB	9.455	
10.05	0.00	.10000E+01	124078.	BB	9.231	
11.71	0.00	.10000E+01	7174.	BB	.530	
12.71	0.00	.10000E+01	117022.	BB	8.650	
14.70	0.00	.10000E+01	38205.	BB	2.854	
17.47	0.00	.10000E+01	28492.	BB	2.106	
19.88	0.00	.10000E+01	18179.	BB	1.344	
24.00	0.00	.10000E+01	471933.	BB	34.890	

Total Area = 1352777.

Total AREA % = 471903.500

Processed data file: P3312

Raw data file: R3312



Report: 17463.00 Charge: 3 FURIA

Sample: FVIAA Injected at 21:43:54 on Nov 21, 1969

ZEFD Method: PAK63 Seal: B103F Inscr: 6000 100.0 100.0

SL-Width HU/Min Delay Filter-Ar 80000
1.000 300 0.00 3000 auto

Sup-Bak Det ID-Lvl Ref-Rtk XRTW XDU-F Iso
NO 0.00 0 30 3.0 100.00 NU

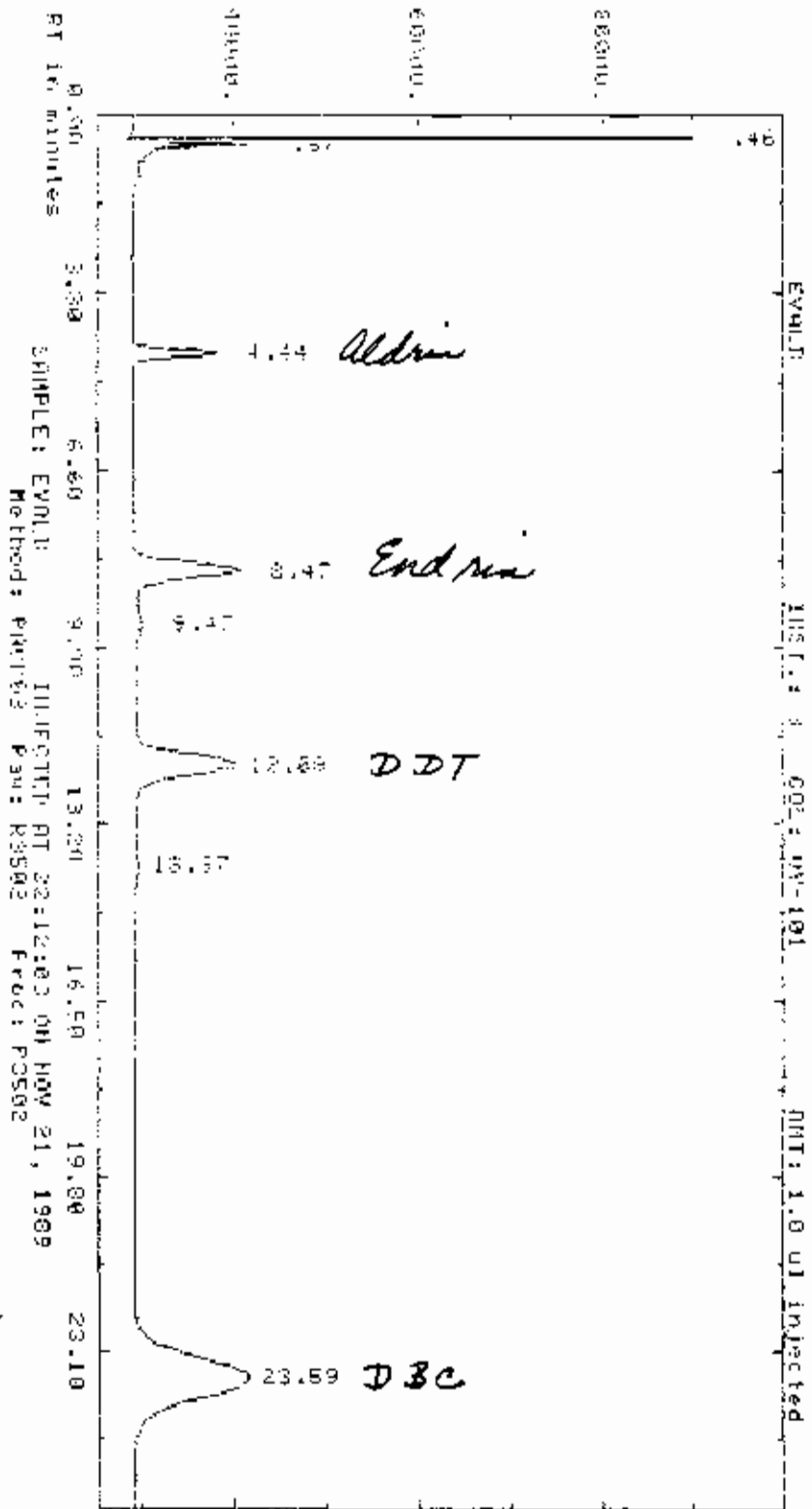
Actual run time: 26.017 minutes

Ended not on baseline

RT	ITH	Factor	Area	Count	% Area
1.46	0.00	1.0000E+00	43265	50	11.848
4.42	0.00	1.0000E+00	12217	14	3.228
8.44	0.00	1.0000E+00	11357	13	2.920
9.44	0.00	1.0000E+00	3717	4	0.955
12.04	0.00	1.0000E+00	52812	61	13.617
23.52	0.00	1.0000E+00	10420	12	26.863

Total Area = 393092 Total Area (1) = 102498.000

Processed data 4914 9376 Raw data files P3301



Report: 14664.00 Channel: 3 11/25

Sample: EVALR Injection: 17 12 93 UN 60V 21, 1917

ZERO Method: PAK03 Seq: SF975 Smpsc/Run: 17.2 Run: 1

SI-MODEM MU/Min RelLo RelHi Smpsc
500 300 0.00 3000 Auto

Sup-Link Det ID-Lvl REP-ETH RETJ XDiff Iso
NO 0.00 0 1.00 5.0 100.00 NO

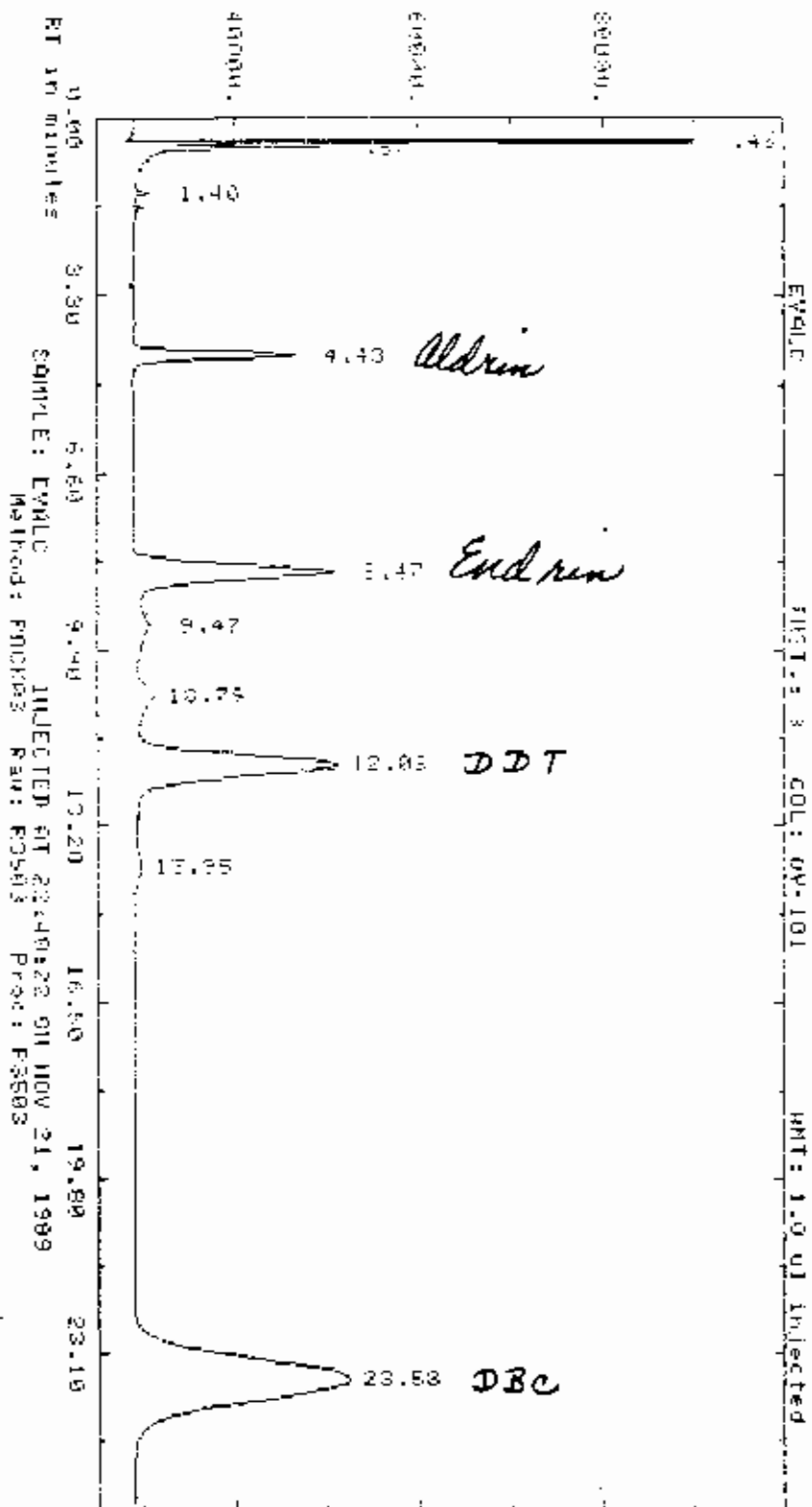
Actual run time: 36.017 minutes

Ended not on baseline

RT	ITH	Factor	Area	Area %	Area & Name
3.66	0.00	1.0000E+01	21433	5.3	17.017
5.7	0.01	1.0000E+03	6444	0.5	19.12
4.44	0.00	1.0000E+01	43413	10.8	0.204
8.47	0.00	1.0000E+02	100337	25.2	14.000
9.47	0.01	1.0000E+01	2100	0.5	9.74
12.08	0.00	1.0000E+01	147354	36.7	26.056
17.37	0.00	1.0000E+01	43413	10.8	6.47
23.59	0.01	1.0000E+01	33000	8.2	40.642

Total Area = 277117 Total AREA % = 338502.500

Processed data file: P356- raw data file: raw02



Report: 13445 00 Channel: 3 E 41.0

Sample: EVALC Injected on 25/01/82 on NOV 21, 1981

ZERO Method: PADM03 Scan: SFD05 NthdySeq: 12 1 RTI: 3

SI-width MU/Mjn Delay Range Binch
.500 .300 0.00 3000 400

Sup-Mnk DvT ID-Lvl Ref-RTW XRLW 20JL- Iso
NO 0.00 0 30 5.0 100.00 NO

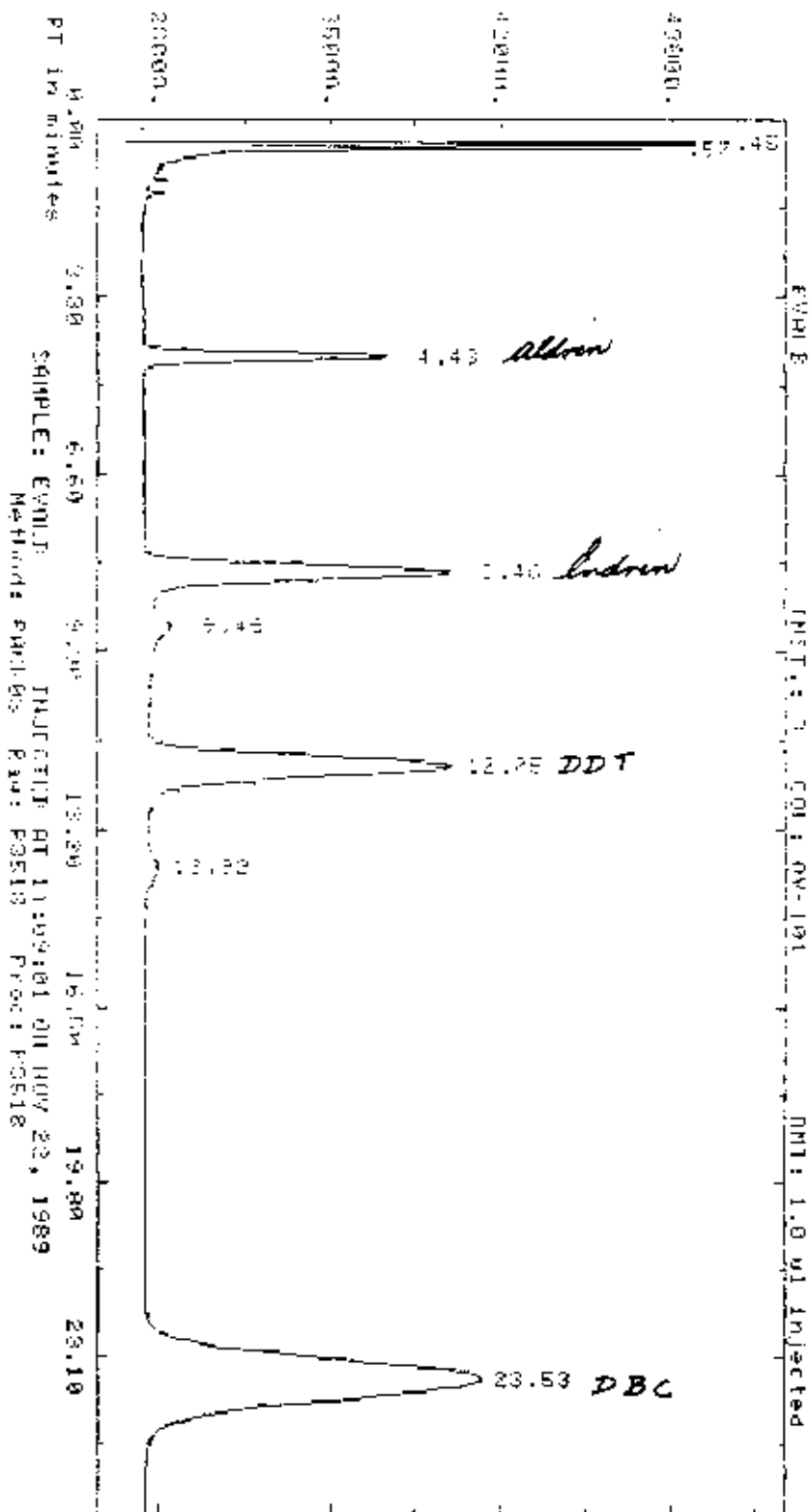
Actual run time: 26.017 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	base
45	0.00	1.0000E+00	101212.12	7.205	
57	0.00	1.7000E+03	14088.22	1.012	
1.40	0.00	4.0000E+03	214.13	0.017	
4.43	0.00	1.0000E+00	9150.71	0.652	
8.47	0.00	1.0000E+00	55751.22	4.003	
9.47	0.00	1.0010E+03	12127.11	0.87	
10.79	0.00	1.0000E+01	20131.44	1.452	
12.09	0.00	1.0000E+01	20001.11	1.436	
13.95	0.00	1.0000E+00	2100.21	0.015	
23.53	0.00	1.0000E+01	4211.11	0.030	

Total Area = 1406842. Area Area % = 100.0000

Processed data file: 13516 Raw data file: 83563



Report: 13680.00 Channel: 3 4.13

Sample: EUNITE Injected At 11:07:01 On Nov 22, 1988

ZERO Method: PAK03 Sps: 510.3 Subseq/Sec: 12.18 Int: 10

SI-width: 1.500 MU/Mix: 300 Delay: 0.00 Max-Ar: 2000 Sample: Auto

Sup-Unit: NO Det: 0.00 ID-Lvl: 0 Ref-Rtd: 1.30 XRTD: 5.0 XDis-C: 100.00 Iso: NO

Actual run time: 25.000 minutes

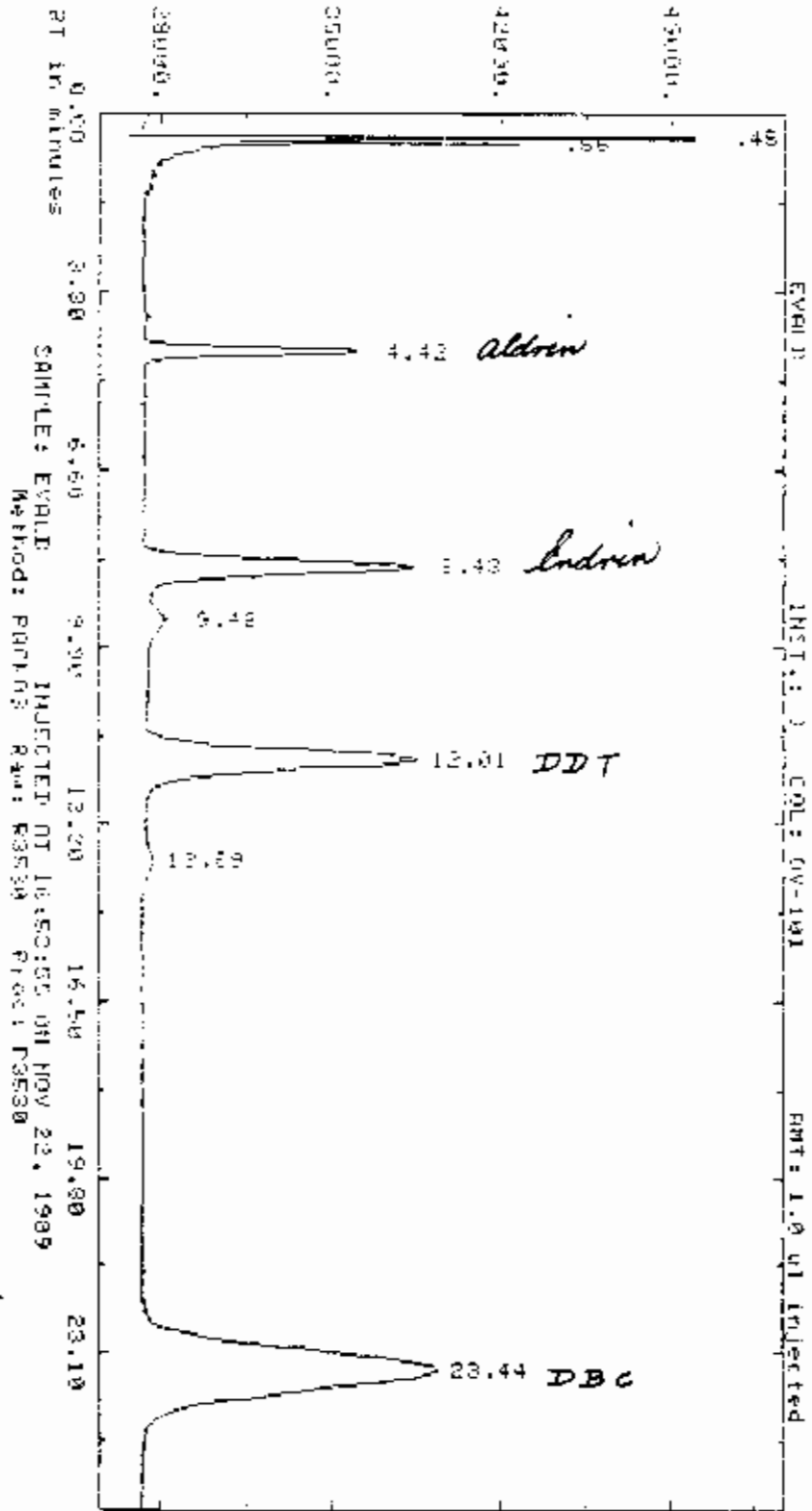
Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
1.45	0.00	1.0000E+01	67837.00	8.467	
1.57	0.00	1.0000E+01	15710.00	1.975	
4.47	0.00	1.0000E+01	51120.00	6.353	
8.46	0.00	1.0000E+01	111310.00	13.858	
9.46	0.00	1.0000E+01	7720.00	0.963	
12.05	0.00	1.0000E+01	171000.00	21.335	
13.92	0.00	1.0000E+01	4950.00	0.617	
23.53	0.00	1.0000E+01	378820.00	47.060	

Total Area = 512950 Total Area % = 62.923 000

Processed data files: R3318 Raw data files: R3318

AMPLITUDE 4.25 UV-response (Enlarged x 1.00)



Report: 13492 01 Channel: 3 UNIT

Sample: SUALP Injection date: 03:52:00 Nov 26, 1987

ZERO Method: POCM02 Sec: 95507 No. of Seps: 120 3-1: 00

Sl-width 502Min Delay 3.00 Res-co 3000 Seps Auto
.500 zap

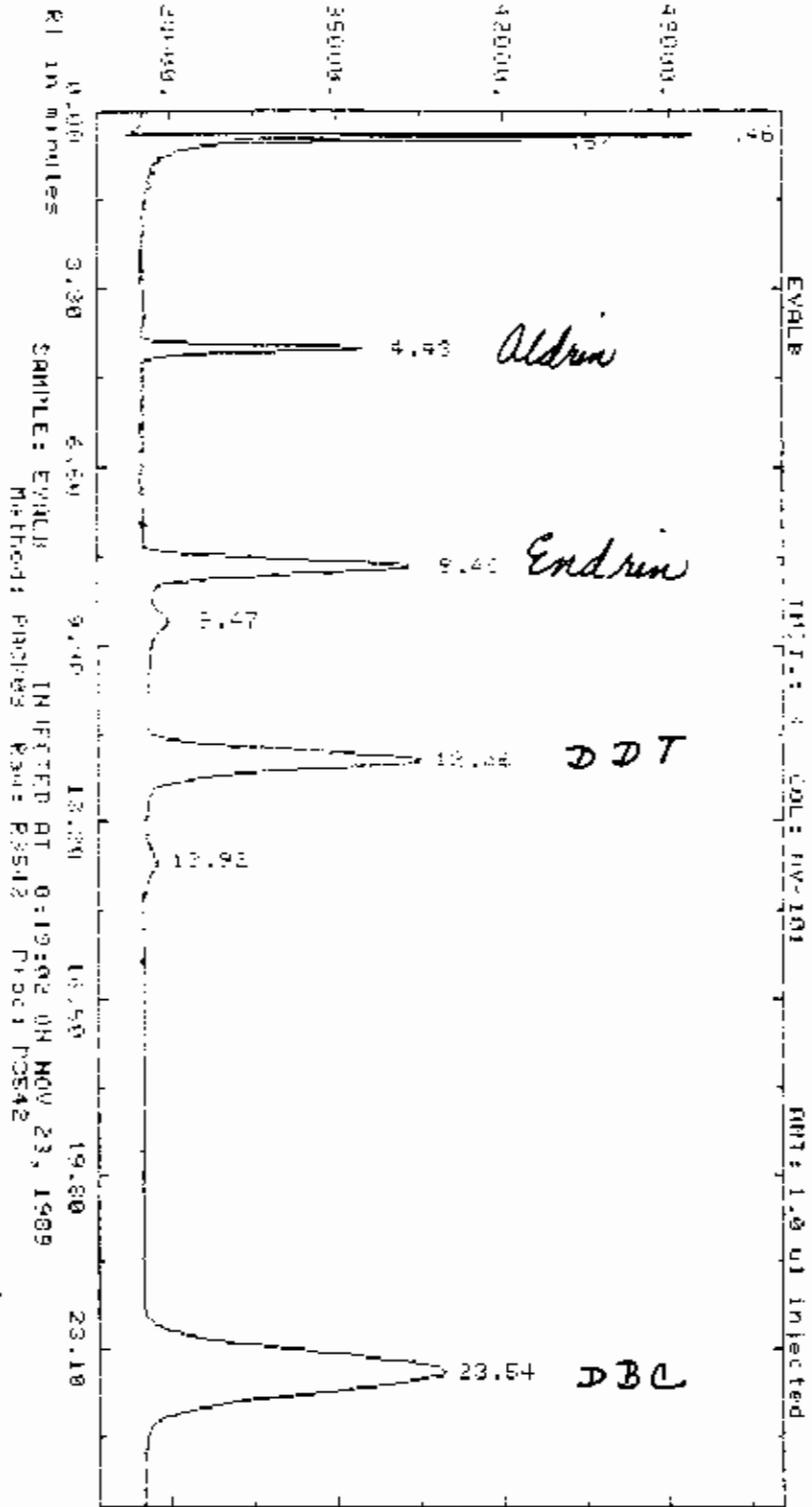
Sup-Link 0.07 ID-Loi For-RTW XSTW 2011-f 100 NO
NO 0.00 0 20 5.0 100.00

Actual run time: 24.617 minutes

RT	ITH	Factor	Area	AREA %	name
4.5	0.00	1.0000E+01	701.11	6.0	9.008
5.56	0.00	1.0000E+01	973.7	8.2	1.153
4.42	0.00	1.0000E+01	4471.2	38.0	6.123
8.43	0.00	1.0000E+01	10490.7	89.0	14.305
9.45	0.00	1.0000E+01	2700.1	23.0	1.000
12.04	0.00	1.0000E+01	1991.3	17.0	20.033
13.89	0.00	1.0000E+01	217.1	1.8	1.620
23.44	0.01	1.0000E+01	5749.0	49.0	25.457

Total Area = 117922 Total Area % = 100.000000

Processed data file: PRTM5 Raw data file: R2235



Report: 13704 00 Channel: 3

00000

Sample: EUPLR

Injected on: 01/10/82 at 09:13, 1982

ZERO Method: PAK03 Sen SE03E 8.000000 1.00 0.00 0.00

Sl-width PU/Min Delay Range Gain
5.00 .300 0.00 3000 4000

Sup-Unk DvT ID-Lvl REGRTO SRTW XDIFF ISO
NO 0.00 0 REGRTO 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

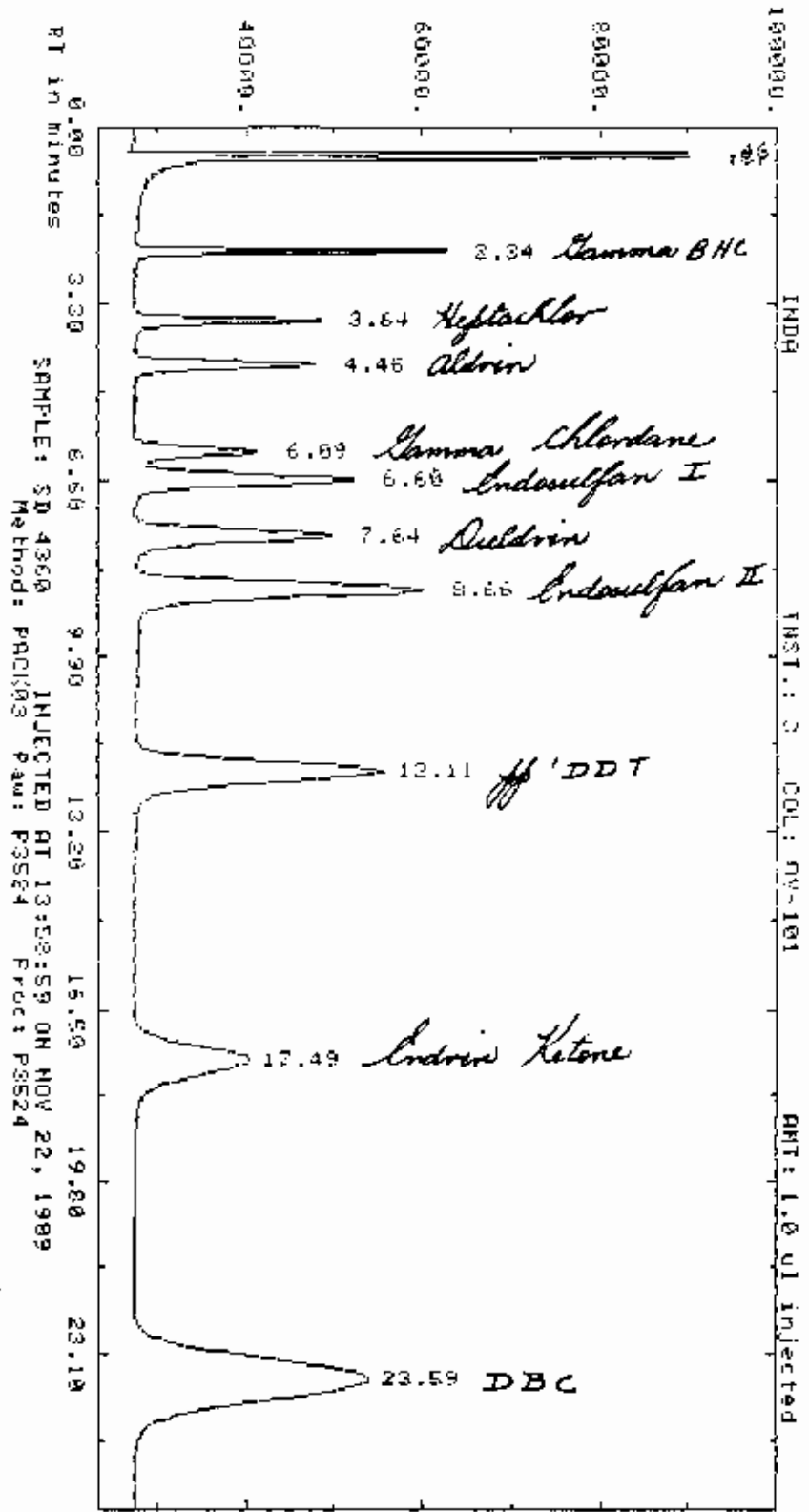
RT	ITM	Factor	Area	AREA 2	Ratio
4.44	0.00	.10000E+00	25345.15	9.356	
5.57	0.00	.10000E+00	10577.58	1.387	
4.53	0.00	.10000E+00	2711.50	5.103	
6.46	0.00	.10000E+00	17493.55	13.951	
9.47	0.00	.10000E+00	2971.35	1.111	
12.06	0.00	.10000E+00	11117.81	20.714	
13.92	0.00	.10000E+00	7491.56	1.889	
23.54	0.00	.10000E+00	30781.8	4.615	

Total Area = 262478 Total AREA 2 = 57632.500

Processed data file: 93749 File name: 4-14-13142

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AMPLITUDE x.25 uv-seconds (Enlarged x 1.25)



Report: 136R6 00 Channel: 3 INDA
 Sample: SD 4360 Injected at 13:58:59 ON NOV 22, 1987
 ZERO Method: PACK03 Seq: 5E035 Subsq/Samp: 1/24 Btl: 24
 Sl-width 500 MV/Min 300 Delay 0.00 Non-Gr 3000 Bunch Auto
 Sup-Dirk NO DvT 0.00 IG-Lvl 0 Ref-RTW .30 ZRTW 5.0 ZDil-F 100.00 Iso NO

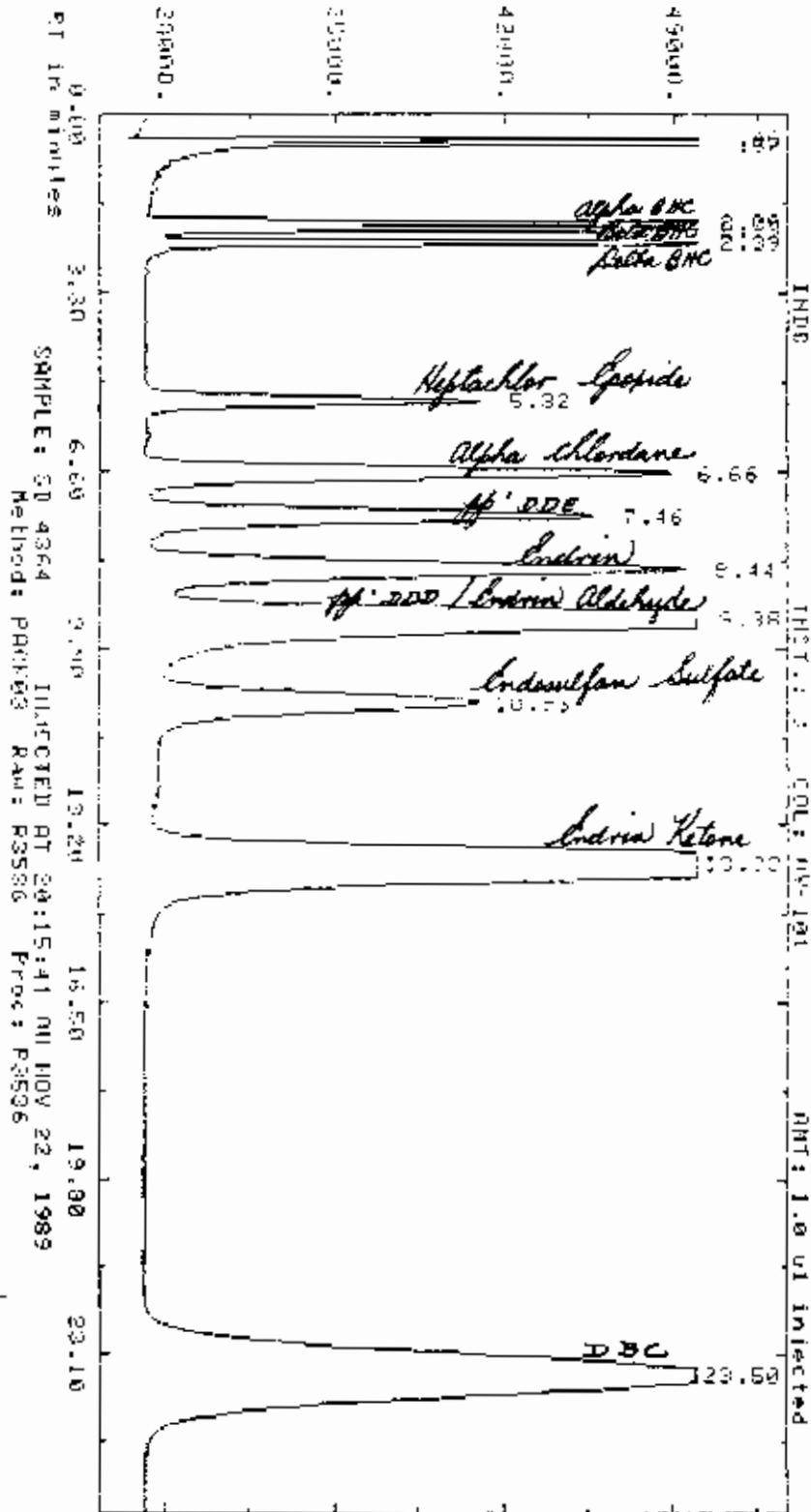
Actual run time: 26.068 minutes

Ended not on baseline

RT	ITH	Factor	Area	NAME	AREA %
.46	0.00	.10000E+01	125196	BB	4.721
.57	0.00	.10000E+01	71555	BB	2.692
2.34	0.00	.10000E+01	99984	BB	3.770
3.64	0.00	.10000E+01	91479	BB	3.450
4.46	0.00	.10000E+01	104219	BB	3.756
6.09	0.00	.10000E+01	82255	BB	3.113
6.60	0.00	.10000E+01	174617	BB	6.566
7.64	0.00	.10000E+01	191910	BB	7.237
8.66	0.00	.10000E+01	325976	BB	12.292
12.11	0.00	.10000E+01	383918	BB	14.477
17.49	0.00	.10000E+01	262627	BB	10.018
23.59	0.00	.10000E+01	734132	BB	27.683

Total Area = 2651952 Total AREA % = 734132.500

Processed data file: P3524 Raw data file: R3524



Report: 13498.00 Channel: 3 INDR

Sample: 89 4361 Injected at 20:15 01 Oct 1992

ZERO Method: PACK03 Seq: 8835 Subsc/Samp: 1/50 RT: 30

Sl-width MU/Min Delay Run-Ar Bench
.500 300 0.00 3000 4.00

Sub-Link DyT ID-Lvl Ref-RID ZKID ZDil-f Iso
NO 0.00 0 .30 5 0 100.00 NO

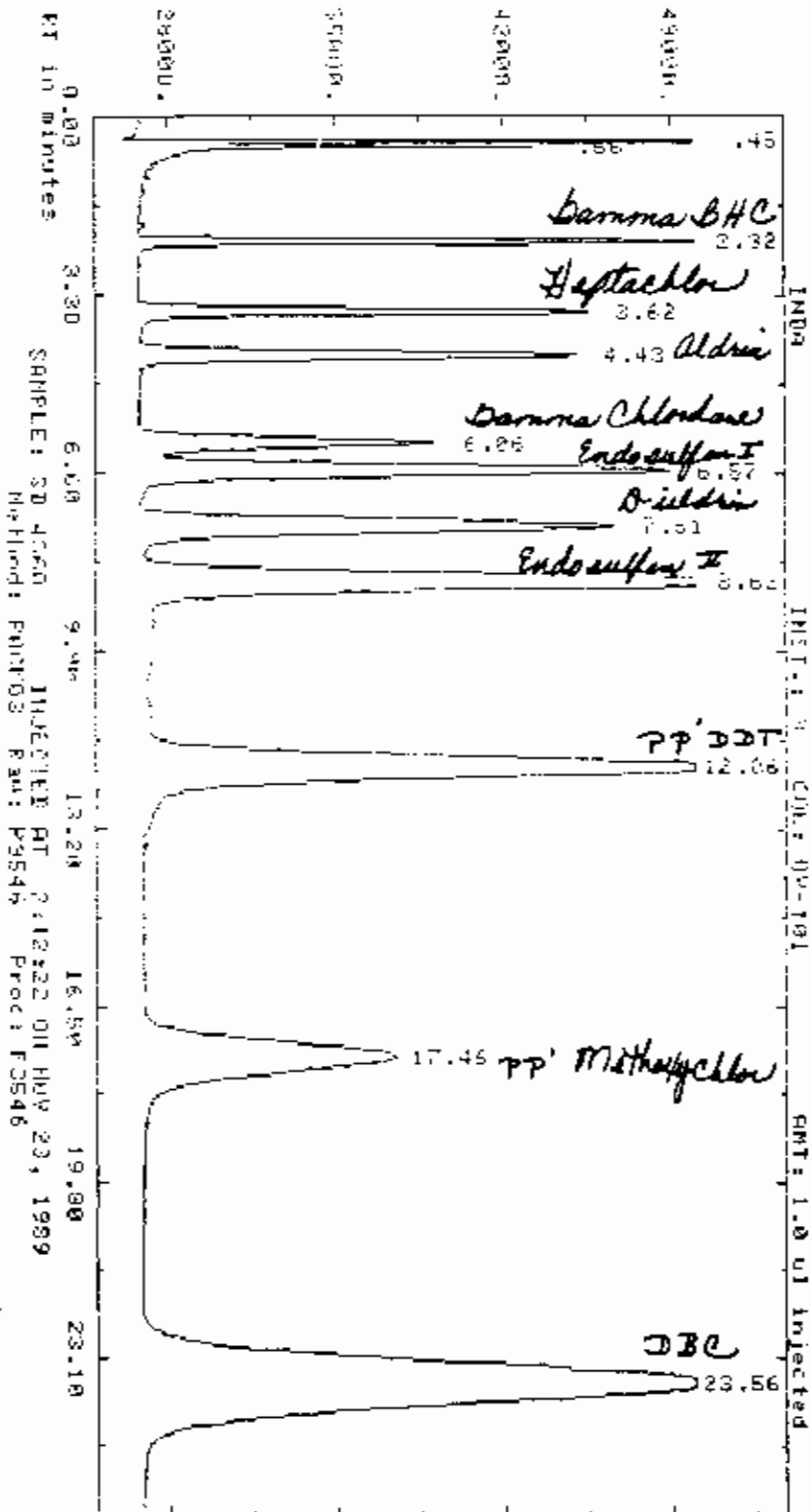
Actual run time: 26.017 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
4.4	1.00	1.0100E+04	170906	89	4.555
1.57	0.00	1.0000E+01	29008	99	0.540
2.00	0.00	1.0000E+01	63511	82	2.570
2.13	0.00	1.0000E+01	41499	89	1.391
2.39	0.00	1.0000E+01	97048	90	2.720
5.32	0.00	1.0000E+01	89017	99	2.010
6.65	0.00	1.0000E+01	166192	88	5.612
7.46	0.00	1.1000E+01	156804	89	5.071
8.44	0.00	1.0000E+01	205027	88	6.956
9.39	0.00	1.0000E+01	403007	92	15.228
10.93	0.00	1.0000E+01	163171	88	5.936
13.93	0.00	1.0000E+01	719777	89	23.966
23.50	0.00	1.0000E+01	670315	87	22.636

Total Area = 3961528. Total AREA % = 670375.000

Processed data file: 03573 Raw data file: R355b



Report: 13708.00 Channel: 3 INTA

Sample: SD 4360 Injected on 2-12-2010 9:43:23, 1989

ZERO Method: PACK03 Seq: SP030 Subsq/Samp: 1/40 Pct: 4c

Sl-width HJ/Min Delay Min-Ar Bunch
.500 .300 0.00 3000 4c

Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-F Iso
NO 0.00 0 .39 5.0 100.00 NO

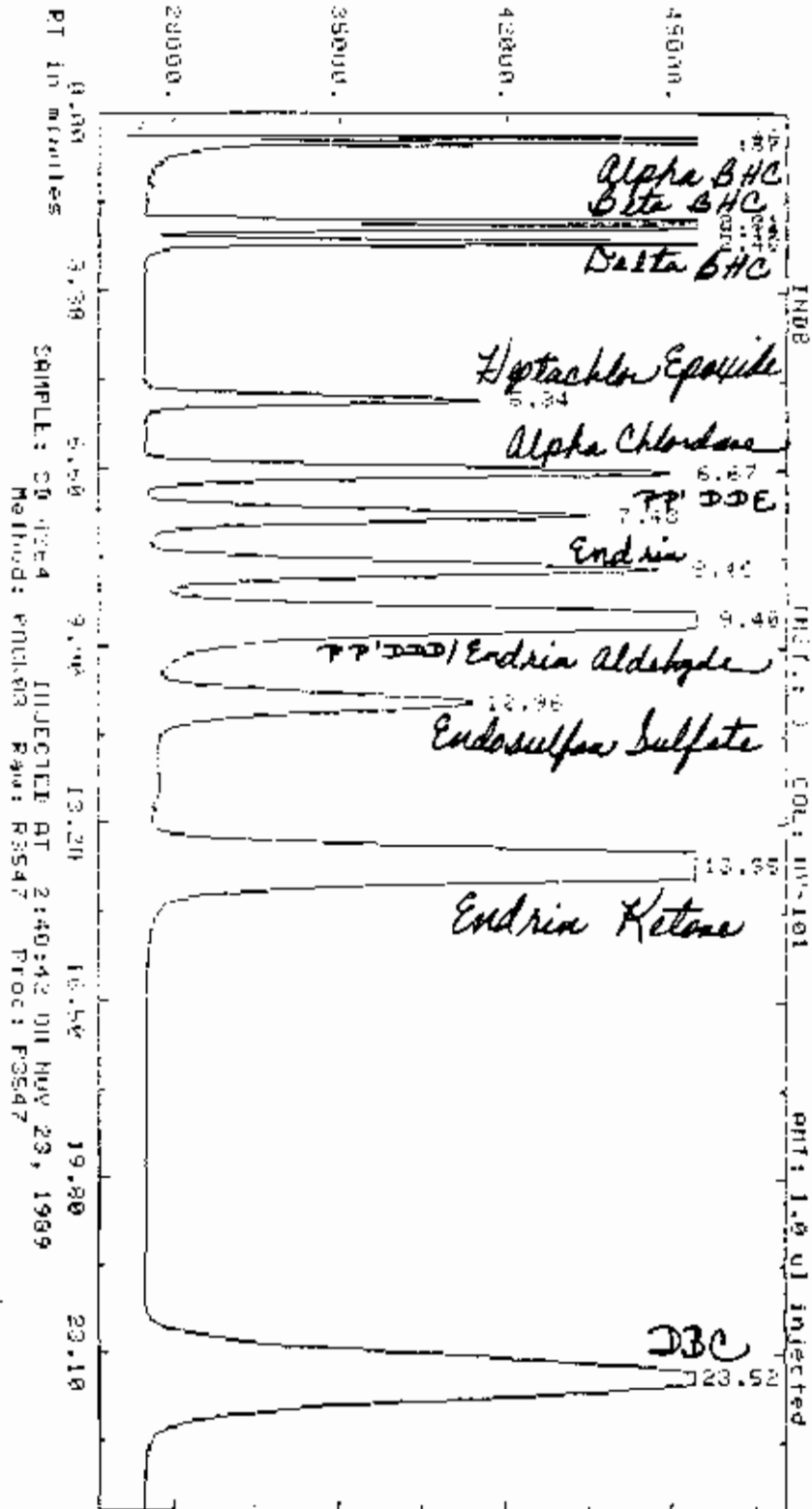
Actual run time: 26 003 minutes

Ended net on baseline

RT	ITH	Factor	Area	AREA %	Name
.45	0.00	.100000E+04	61771.00	11.923	
.56	0.00	.100000E+04	11279.20	2.197	
2.32	0.00	.100000E+04	92576.10	17.899	
3.62	0.00	.100000E+04	89200.00	17.063	
4.43	0.00	.100000E+04	30715.00	5.871	
6.06	0.00	.100000E+04	54264.00	10.276	
6.57	0.00	.100000E+04	175014.00	33.566	
7.61	0.00	.100000E+04	170405.00	32.511	
9.62	0.00	.100000E+04	252050.00	48.592	
12.06	0.00	.100000E+04	301247.00	57.433	
17.46	0.00	.100000E+04	218951.00	41.649	
23.56	0.00	.100000E+04	631005.00	119.238	

Total Area = 2268613 Total AREA % = 653307.000

Processed data file: P3545 Raw data file: R3546



Report: 13709.00 Channel: 3 INDE

Sample: SD 4364 Injected at 2:48:42 On 09/25/12

ZERO Method: PACE07 Scan: 0100V Pubsq/Scan: 1/40 21.1 42

Sl-width 1.500 MV/Min 1.300 Delay 1.00 Min-Ac 2000 Gain 6000

Sup-Unk NO Det 0.00 ID-Lvl 0 Ref-RTW 30 XRTW 5.0 %Dist-4 100.00 Iso NO

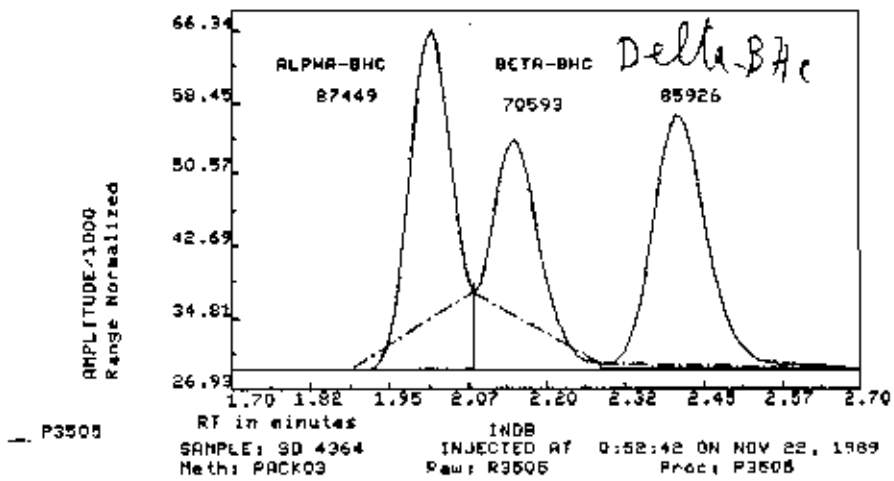
Actual run time: 26.017 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
4.6	0.00	1.0000E-04	136677	0.554	
5.7	0.00	1.0000E+01	20271	0.814	
2.01	0.00	1.0000E+00	6405	2.245	
2.14	0.00	1.0000E+01	41449	1.357	
2.41	0.00	1.0000E+01	42224	2.722	
5.34	0.00	1.0000E+00	24173	0.800	
6.67	0.00	1.0000E+01	163415	5.021	
7.48	0.00	1.0000E+00	190537	5.285	
8.46	0.00	1.0000E+01	202415	6.737	
9.40	0.00	1.0000E+01	461834	11.400	
10.96	0.00	1.0000E+01	164021	5.503	
13.95	0.00	1.0000E+01	265307	22.512	
23.52	0.00	1.0000E+01	421225	28.501	

Total Area = 2981859 Total AREA % = 57.356100

Processed data file: P2547 Raw data file: R2547



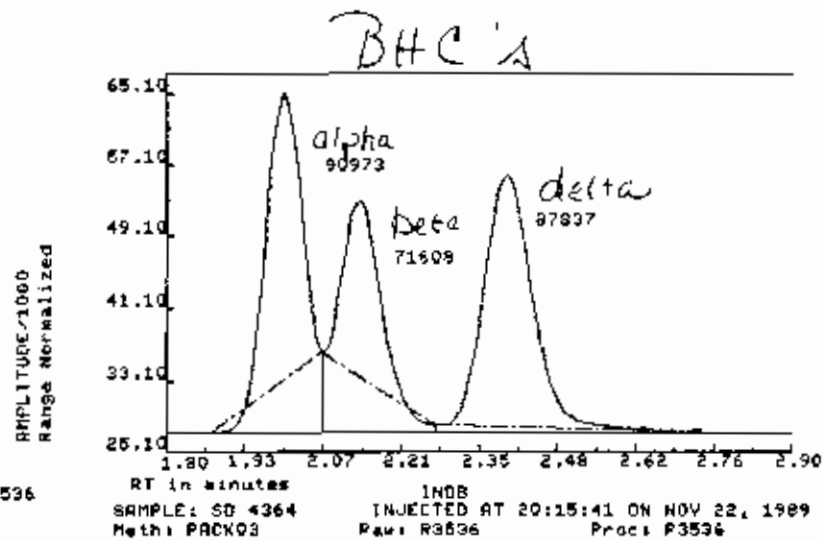
RAW DATA FILE: R3536

INJECTED AT: 20:15:41 ON NOV 22, 1989

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	1.91	2.07	90973	36.3
2	2.07	2.27	71608	28.6
3	2.27	2.70	87837	35.1

Select softkey



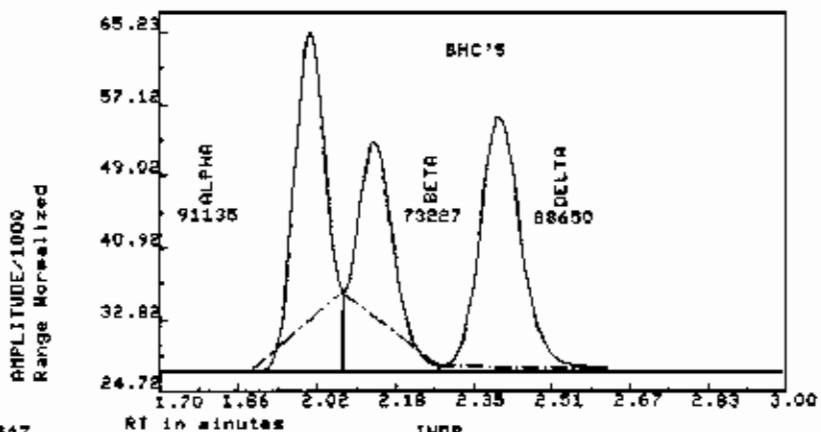
RESULTS OF MANUAL INTEGRATION FROM CPlot

RAW DATA FILE: R3547::16

INJECTED AT: 2:40:42 ON NOV 23, 1989

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	1.91	2.08	91135	36.0
2	2.08	2.28	73227	28.9
3	2.28	2.69	88650	35.0



P3547

SAMPLE: SD 4364 INDB INJECTED AT 2:40:42 ON NOV 23, 1989
Meth: PACK03 Raw: R3547::16 Proc: P3547

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STANDARD COMPOUND CONCENTRATIONS

STD INDA	CONC(ug/ml)
Gamma BHC	0.010
Heptachlor	0.010
Aldrin	0.010
Gamma Chlordane	0.010
Endosulfan I	0.010
Dieldrin	0.020
Endosulfan II	0.040
pp' DDT	0.050
pp' Methoxychlor	0.10

STD INDB	CONC(ug/ml)
Alpha BHC	0.010
Beta BHC	0.020
Delta BHC	0.010
Heptachlor Epoxide	0.010
Alpha Chlordane	0.020
pp' DDE	0.020
Endrin	0.040
pp' DDD	0.040
Endrin Aldehyde	0.040
Endosulfan Sulfate	0.040
Endrin Ketone	0.10

MULTICOMPONENT STANDARDS

AR1660	1016	0.30
	1260	0.30
AR1221		1.0
AR1232		0.70
AR1242		0.40
AR1248		0.40
AR1254		0.30
TOXAPH		1.0

EVALUATION MIX STANDARDS

COMPOUND	EVALA	EVALB	EVALC
Aldrin	0.0020	0.0050	0.010
Endrin	0.0080	0.020	0.040
DDT	0.0125	0.030	0.060
DHC	0.020	0.050	0.10

SEQUENCE NAME - SEQ35

CALIB. STD LOT OV-101

L.U. REF 16

CHANNEL # 3

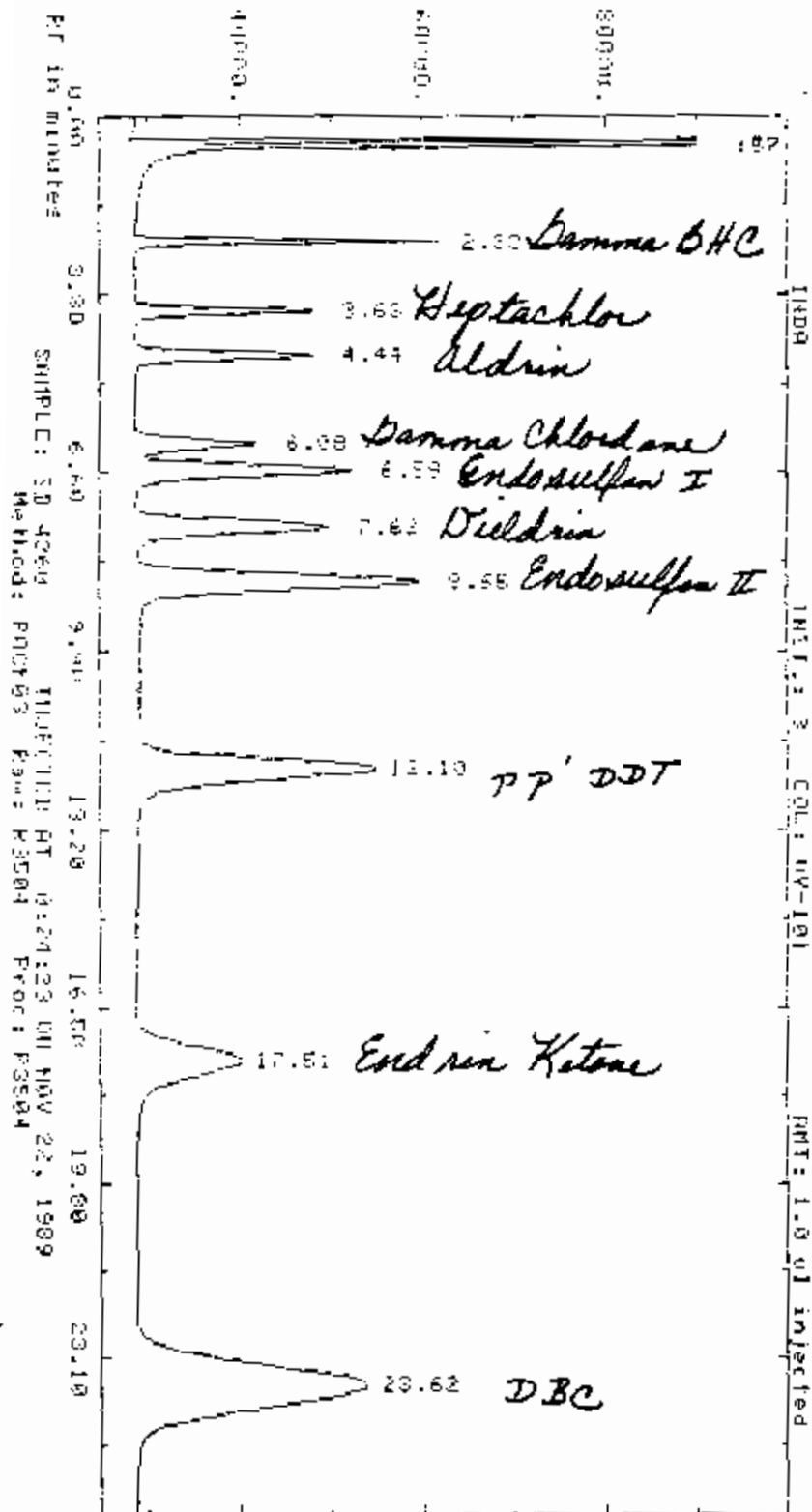
DATE STARTED

INSTRUMENT # ??

DATE FINISHED

TYPE(S) OF ANALYSIS PEST

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
EVALA	01	EVALA		21:43:44 ON NOV 21, 1989
EVALB	02	EVALB		22:12:03 ON NOV 21, 1989
EVALC	03	EVALC		22:40:22 ON NOV 21, 1989
SD 4360	04	INDA		0:24:23 ON NOV 22, 1989
SD 4364	05	INDB		0:52:42 ON NOV 22, 1989
SD TOXA	06	TOXAPH		1:21:03 ON NOV 22, 1989
SD ARMX	07	AR1650		1:49:23 ON NOV 22, 1989
SD 1221	08	AR1221		2:17:43 ON NOV 22, 1989
SD 1232	09	AR1232		2:46:03 ON NOV 22, 1989
SD 1242	10	AR1242		3:14:23 ON NOV 22, 1989
SD 1248	11	AR1248		3:42:42 ON NOV 22, 1989
SD 1254	12	AR1254		4:11:02 ON NOV 22, 1989
PP 303559 B1	13	13153 EGK48	PBLK45	8:47:23 ON NOV 22, 1989
PP 302899 SS	14	13153 EGK48	EGK49MS	9:15:42 ON NOV 22, 1989
PP 302900 SS	15	13153 EGK48	EGK49MSD	9:44:02 ON NOV 22, 1989
PP 302896 O	16	13153 EGK48	EGK49	10:12:21 ON NOV 22, 1989
PP 302901 BS	17	13153 EGK48	BS	10:40:41 ON NOV 22, 1989
EVALB	18	EVALB		11:09:01 ON NOV 22, 1989
PP 302898	19	13153 EGK48	EGK50	11:37:20 ON NOV 22, 1989
PP 302903	20	13153 EGK48	EGK-52	12:05:39 ON NOV 22, 1989
PP 302905	21	13153 EGK48	EGK53	12:33:59 ON NOV 22, 1989
PP 302887	22	13153 EGK48	EGK48	13:02:19 ON NOV 22, 1989
PP 303560 B2	23	13153 EGK48	PBLK46	13:30:39 ON NOV 22, 1989
SD 4360	24	INDA		13:58:59 ON NOV 22, 1989
PP 303600 B1	25	18410 BB	PBLK49	14:32:15 ON NOV 22, 1989
PP301887R2SS	26	18381 1	MW-4MS	15:00:35 ON NOV 22, 1989
PP301888R2SS	27	18381 1	MW-4MSD	15:28:54 ON NOV 22, 1989
PP301889R2BS	28	18381 1	BS	15:57:14 ON NOV 22, 1989
CP 303265 B	29	13169 EAB18	PBLK16	16:25:35 ON NOV 22, 1989
EVALB	30	EVALB		16:53:55 ON NOV 22, 1989
CP 302122	31	13169 EAB18	EPW37	17:54:04 ON NOV 22, 1989
PP 303627 B1	32	13189 EHD00	PBLK57	18:22:23 ON NOV 22, 1989
PP 303628 B2	33	13189 EHD00	PBLK58	18:50:43 ON NOV 22, 1989
PP 303503 SS	34	13189 EHD00	EHD00MS	19:19:02 ON NOV 22, 1989



Report: 17666 00 Channel: 3 1004

Sample: 00 4360 Injected: 1 1 24.23 04 000 20, 1017

ZERO Method: PACK03 Sec: 510.00 Sub-seconds: 12.4 Pts: 4

PL-Width 4028in Delay 0.00 Repeat 2000 Focus auto

Sup-Unk 007 10-100 Ref-RTL 39 XRTW 5.0 X01-L-F 100.00 Iso 00

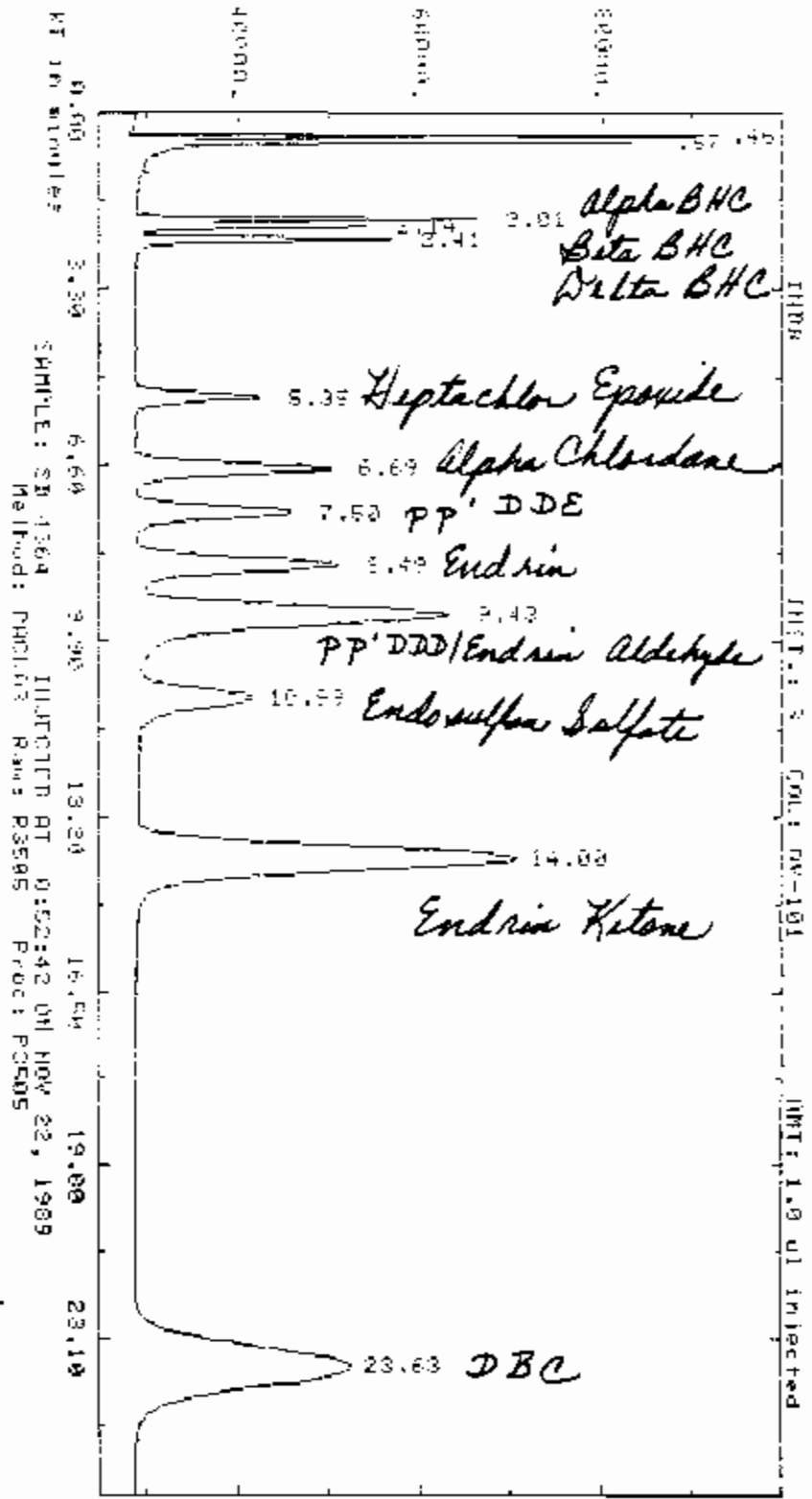
Actual run time: 26.005 minutes

Ended not on baseline

RT	TH	Factor	Area	AREA %	Gain
.46	0.00	.100000E+01	150.00	0.0	3.987
.57	0.00	.100000E+01	7.140	0.0	2.411
2.37	0.00	.100000E+01	15.70	0.0	3.156
3.63	0.00	.100000E+01	235.00	1.0	1.314
4.41	0.00	.100000E+01	44.00	0.0	3.434
6.00	0.00	.100000E+01	200.00	0.0	3.161
6.52	0.00	.100000E+01	153.00	1.0	0.385
7.63	0.00	.100000E+01	190.00	0.0	7.189
8.65	0.00	.100000E+01	304.00	0.0	12.291
12.10	0.00	.100000E+01	361.00	0.0	14.328
17.51	0.00	.100000E+01	271392.00	100.0	9.319
23.62	0.00	.100000E+01	69725.00	25.0	27.722

Total Area = 3515764 Total Area % = 692254.000

Processed data file: 03504 Raw data file: 03504



Report 13667.DD Channel 3 21.05

Sample: SD 4364 Injected at 9.519300 Nov 22, 1987

ZERO Method: P00K03 Sec: 95935 Sides/5amp: 17.5 File: 1

Sl-width: .500 H0/H1: 300 Delay: 0.00 Number: 2129 Sides: 610

Sub-Mk: NO Det: 0.00 ID-1: 0 Ref: 0.30 2RTW: 5.0 2D1: 100.00 Iso: NO

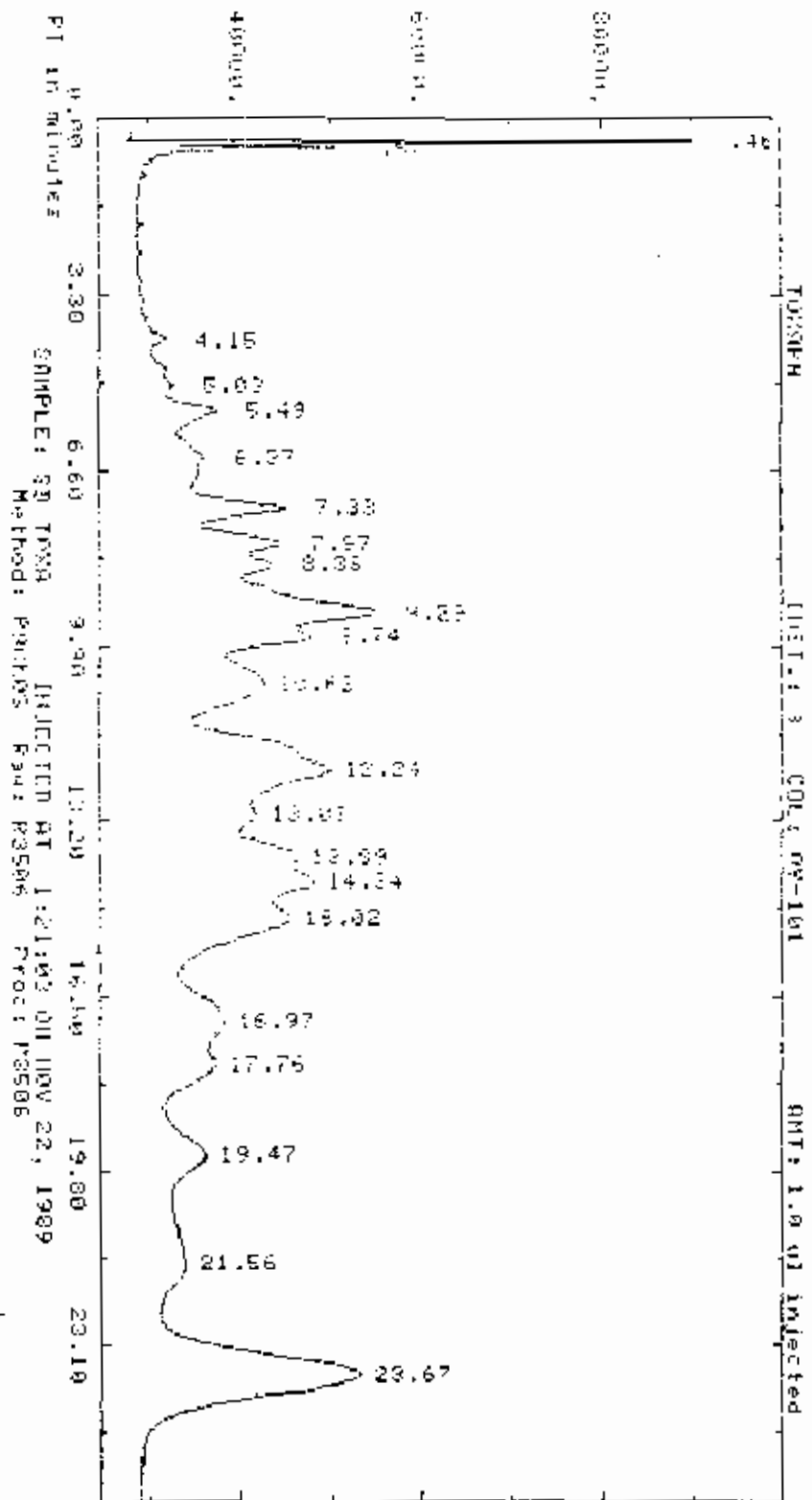
Actual run time: 26.009 minutes

Ended not on baseline

RT	TTM	Factor	Area	AREA %	Comp
4.6	0.00	.10190E+04	122011.00	4.845	
5.7	0.00	.10000E+04	50597.75	1.927	
8.03	0.00	.10000E+04	2446.12	0.095	
2.14	0.10	.10000E+04	41011.55	1.587	
2.41	0.00	.10000E+04	21520.50	8.261	
5.35	0.00	.10000E+04	14372.61	5.565	
5.69	0.00	.10000E+04	124482.00	4.815	
7.50	0.00	.10000E+04	12449.10	0.481	
8.49	0.00	.10000E+04	227227.00	8.824	
9.43	0.00	.10000E+04	241527.00	9.307	
10.99	0.00	.10000E+04	192324.00	7.441	
14.00	0.00	.10000E+04	697307.00	27.184	
23.67	0.00	.10000E+04	855473.00	33.354	

Total Area = 2931856 Total AREA % = 655075.500

Processed data file: P3505 Raw data file: F3501



Report: 13A68 00 Channel: Z 11/11/84

Sample: S5 TOXA 2.5000g at 11.03 On R35 22, 1984

ZERO Method: PAK03 Seq: SF035 Subseq: Sep: 17 6 Etc: 6

SI-width: .500 HXMin: 300 Delay: 0.00 HXMax: 3000 Bunch: Auto

Sup-Unk: NO DVT: 0.00 IO-Lvl: 0 Ref-FTW: 30 XRTW: 5.0 ZDil-1: 100.00 Iso: NO

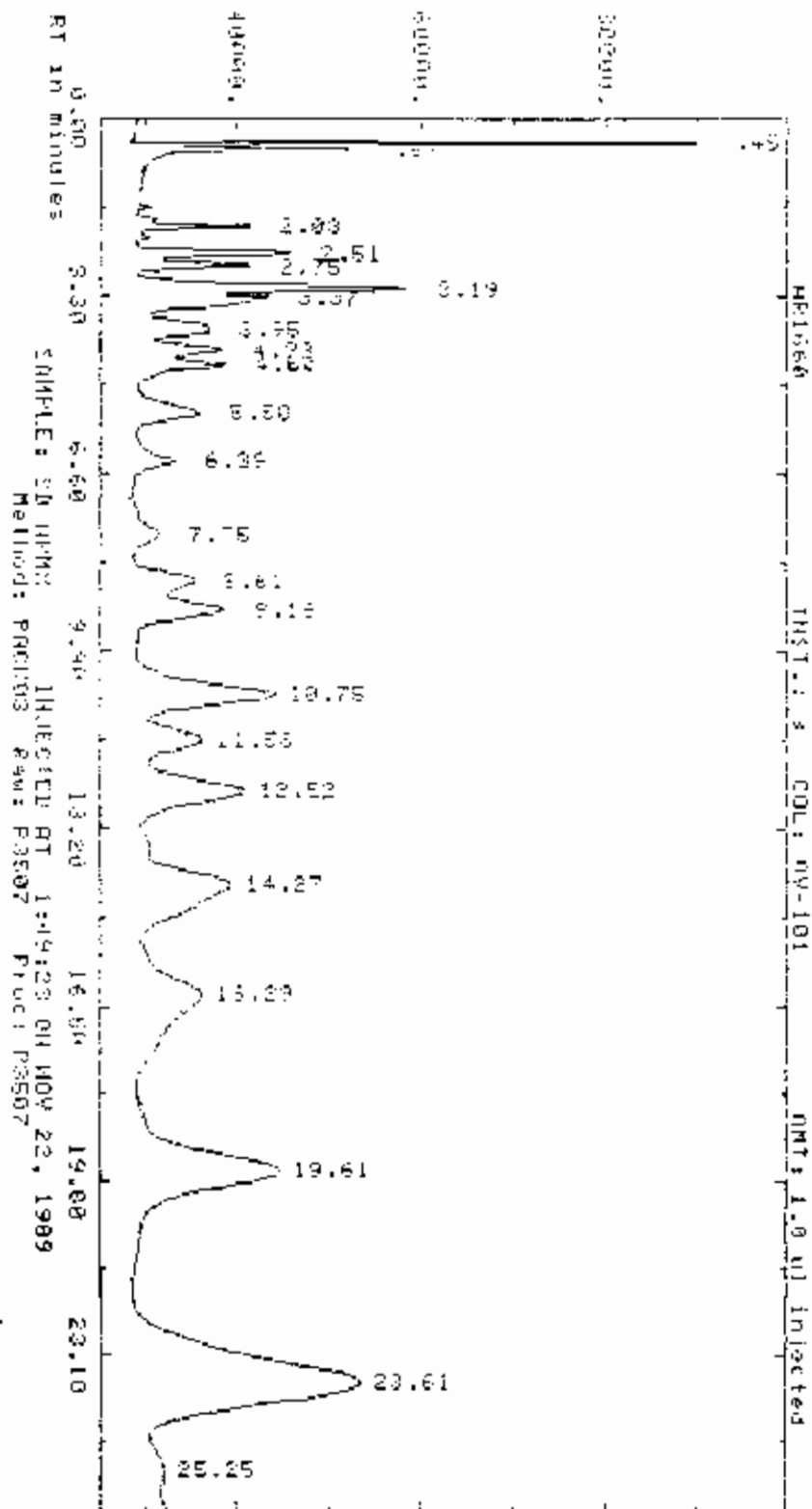
Actual run time: 26.017 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA X	Name
1.46	0.00	.10000E+01	115712.78	6.243	
1.57	0.00	.10000E+01	12797.93	1.931	
4.45	0.00	.10000E+01	13385.88	6.60	
5.07	0.00	.10000E+01	4.14	.020	
5.40	0.00	.10000E+01	4773.86	2.451	
6.37	0.00	.10000E+01	1215.82	.637	
7.35	0.00	.10000E+01	81147.13	4.321	
7.97	0.00	.10000E+01	4141.86	2.392	
8.38	0.00	.10000E+01	19472.66	1.023	
9.29	0.00	.10000E+01	12117.11	6.675	
9.74	0.00	.10000E+01	24421.82	1.425	
10.62	0.00	.10000E+01	422227.81	6.432	
12.24	0.00	.10000E+01	27975.88	14.702	
13.00	0.00	.10000E+01	7084.82	.423	
13.09	0.00	.10000E+01	19275.38	1.013	
14.34	0.00	.10000E+01	21603.82	1.557	
15.02	0.00	.10000E+01	59502.06	3.131	
16.97	0.00	.10000E+01	64789.61	3.412	
17.76	0.00	.10000E+01	29105.87	1.531	
19.47	0.00	.10000E+01	90535.85	4.762	
21.56	0.00	.10000E+01	69773.68	3.670	
23.67	0.00	.10000E+01	611961.88	32.186	

Total Area = 1901331. Total AREA X = 611961.500

Processed data file: P3506 Raw data file: R3506



Report: 13659.00 Channel: 2 48169

Sample: 80 APX Injected at 1047.23 On Nov 22, 1989

ZERO Method: PAK03 Seq: 0005 Subsequence: 127 Pkt: 7

SI-width: 500
MZN: .300
Delay: 0.00
Min: 3000
Ech: Auto

Sup-Dir: NO
Dot: 0.00
J0-Lvl: 0
PeP-Plw: .50
%RTM: 5.0
%Diff: 100.00
Ico: NO

Actual run time: 26.008 minutes

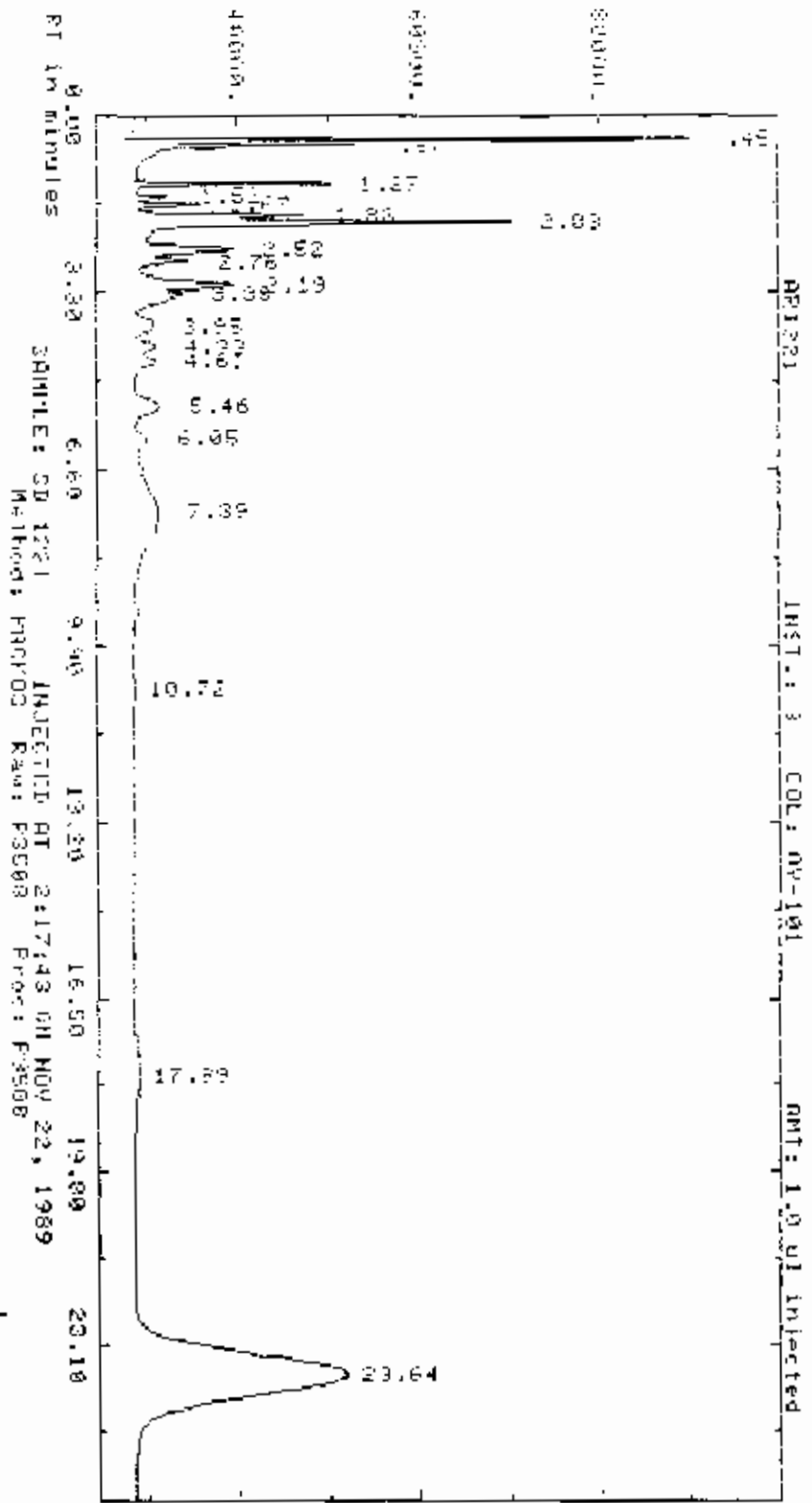
Ended not on baseline

RT	TTM	Factor	Area	AREA %	Name
1.45	0.00	.10000E+01	110004	BB	4.138
1.57	0.00	.10000E+01	16000	BB	1.619
2.03	0.00	.10000E+01	20000	BB	1.189
2.51	0.00	.10000E+01	27000	BB	1.617
2.75	0.00	.10000E+01	31000	BB	1.155
3.19	0.00	.10000E+01	37000	BB	3.012
3.37	0.00	.10000E+01	34000	BB	1.295
3.95	0.00	.10000E+01	51000	BB	1.939
4.33	0.00	.10000E+01	50000	BB	1.147
4.60	0.00	.10000E+01	24000	BB	1.073
5.50	0.00	.10000E+01	59000	BB	2.248
6.39	0.00	.10000E+01	27000	BB	1.419
7.75	0.00	.10000E+01	26000	BB	1.571
8.61	0.00	.10000E+01	36000	BB	1.378
9.16	0.00	.10000E+01	60000	BB	2.310
10.75	0.00	.10000E+01	190000	BB	7.249
11.58	0.00	.10000E+01	65000	BB	2.491
12.52	0.00	.10000E+01	150000	BB	5.955
14.27	0.00	.10000E+01	200000	BB	6.549
16.29	0.00	.10000E+01	210000	BB	8.249
19.61	0.00	.10000E+01	360000	BB	13.685
23.61	0.00	.10000E+01	710000	BB	27.294
25.25	0.00	.10000E+01	12000	BB	1.161

Total Area = 2636174. Total AREA % = 12150.250

Processed data file: P3507

Raw data file: R3507



Report: 13470.00 Channel: 3 File: 1

Sample: 90 1281 Injected at 2 17:45 On NOV 22, 1979

ZEPO Method: PAK002 Seal: 00005 Spcs/Samp: 17 0 30: 6

SI-Minute HU/Min Delay Yr-Min Bunch
.500 300 0.00 0.00 none

Sup-Dek DvT ID-Lvl Ref-RTM XRTM ADI-F Iso
NO 0.00 0 0.00 5.0 100.00 NO

Actual run time: 26.68 minutes

Ended not on baseline

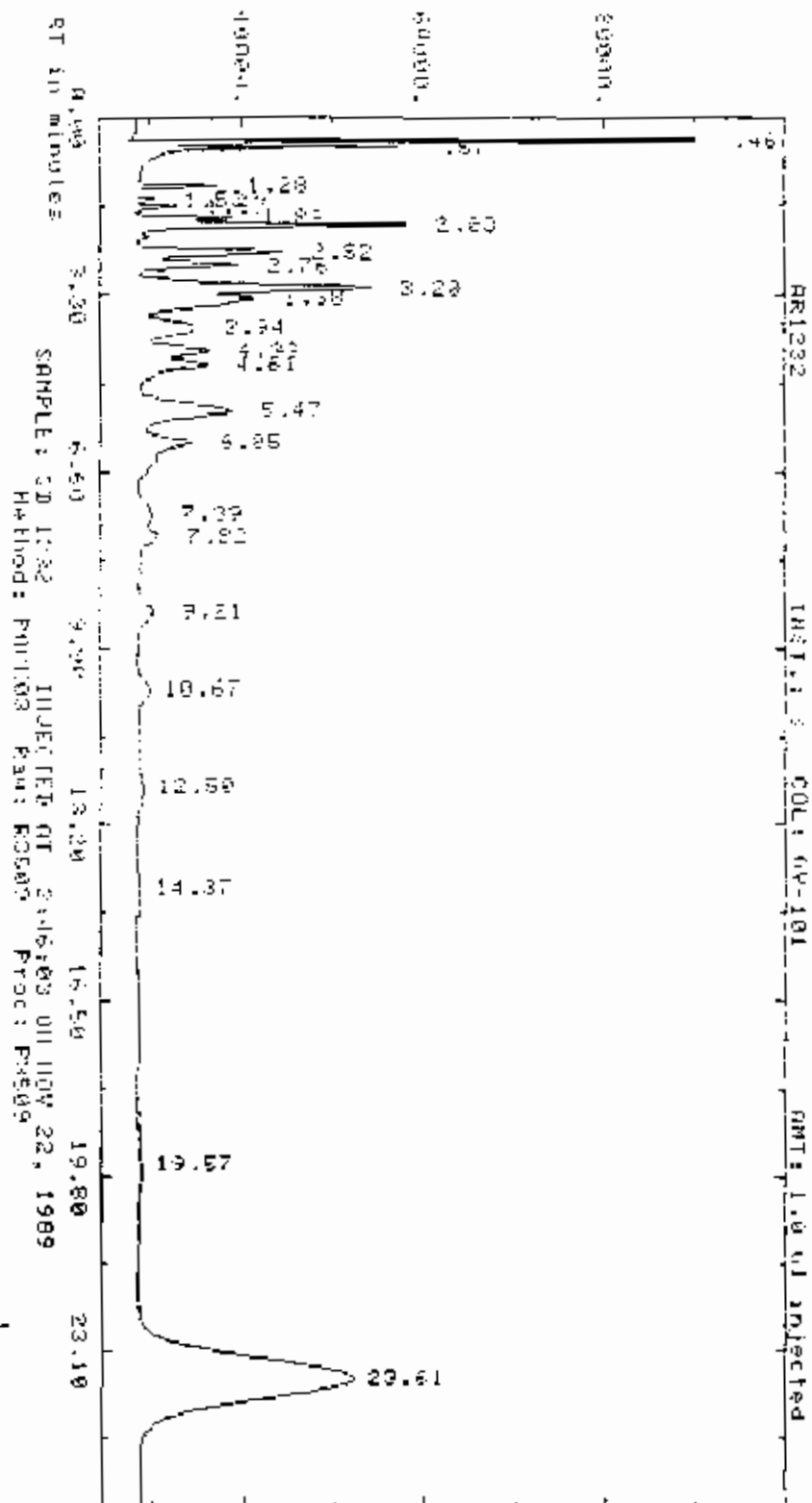
RT	ITM	Factor	Area	AREA %	Name
0.45	0.00	1.0000E+01	66370.50	0.000	
0.57	0.00	1.0000E+01	19090.00	0.000	
1.27	0.00	1.0000E+01	25100.00	0.000	
1.52	0.00	1.0000E+01	7500.00	0.000	
1.67	0.00	1.0000E+01	10000.00	0.000	
1.98	0.00	1.0000E+01	10000.00	0.000	
2.03	0.00	1.0000E+01	20000.00	0.000	
2.52	0.00	1.0000E+01	30000.00	0.000	
2.76	0.00	1.0000E+01	10000.00	0.000	
3.19	0.00	1.0000E+01	20000.00	0.000	
3.38	0.00	1.0000E+01	10000.00	0.000	
3.95	0.00	1.0000E+01	10000.00	0.000	
4.33	0.00	1.0000E+01	20000.00	0.000	
4.61	0.00	1.0000E+01	10000.00	0.000	
5.44	0.00	1.0000E+01	20000.00	0.000	
6.05	0.00	1.0000E+01	10000.00	0.000	
7.39	0.00	1.0000E+01	20000.00	0.000	
10.72	0.00	1.0000E+01	40000.00	0.000	
17.99	0.00	1.0000E+01	20000.00	0.000	
23.64	0.00	1.0000E+01	653710.50	57.554	

Total Area = 1135839.

Total AREA % = 653710.500

Processed data file: P3509

Raw data file: R3508



Report: 13471.D Channel: 3 4/12/82

Sample: SD 1232 Injected: 1 2.4603 ug vol 22, 1982

ZERO Method: PACKED Sec: 5E237 S104, Temp: 100 E11: 9

Slendrb MU/MIN Delay Altitude Flow
.500 .300 0.00 3550 Rate

Sup-Unit Det IS-Val Ref-RTJ Slew XDist-F Ieg
NO 0.00 0 1.00 5.0 100.00 NO

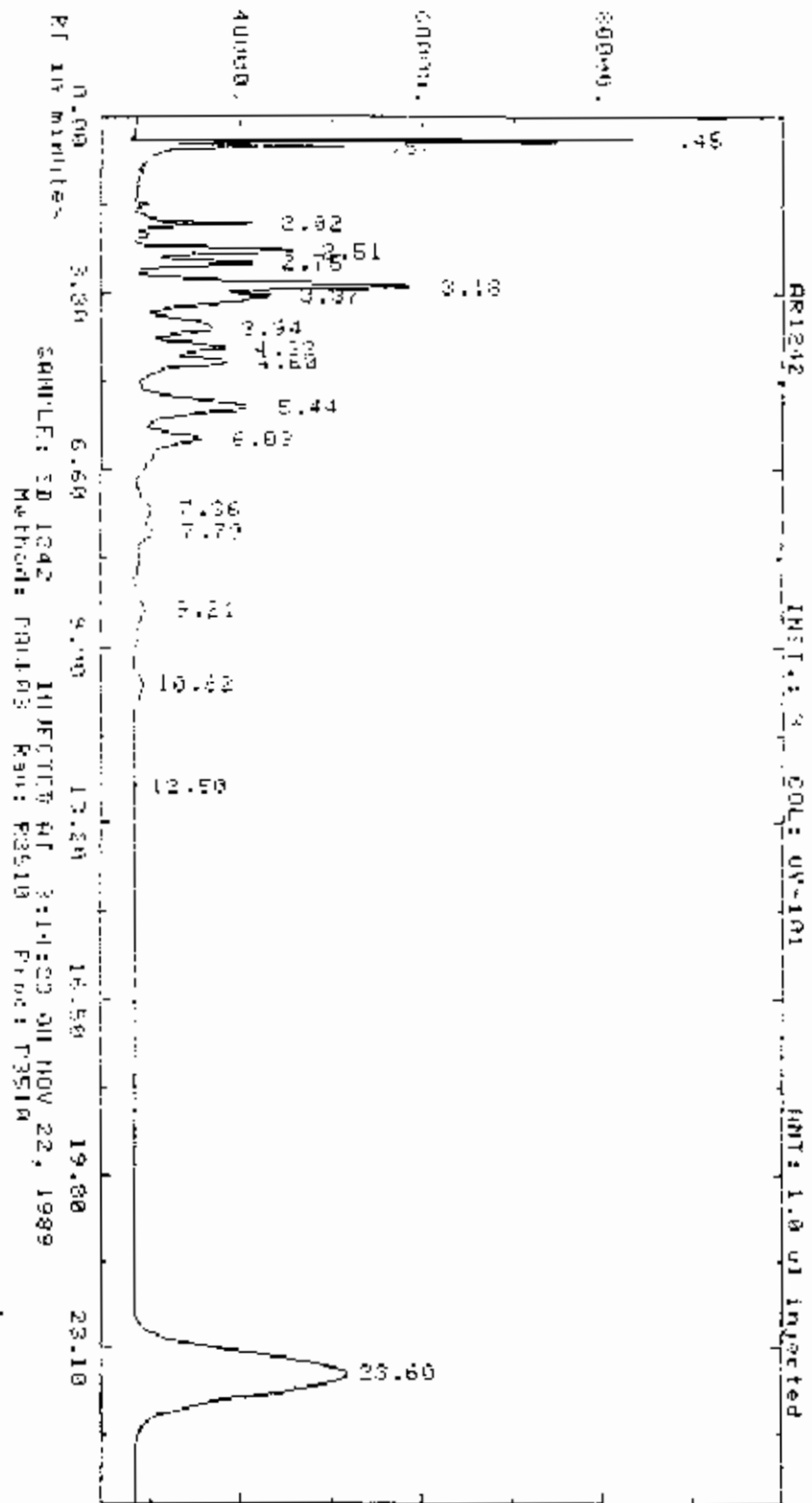
Actual run time 25.017 minutes

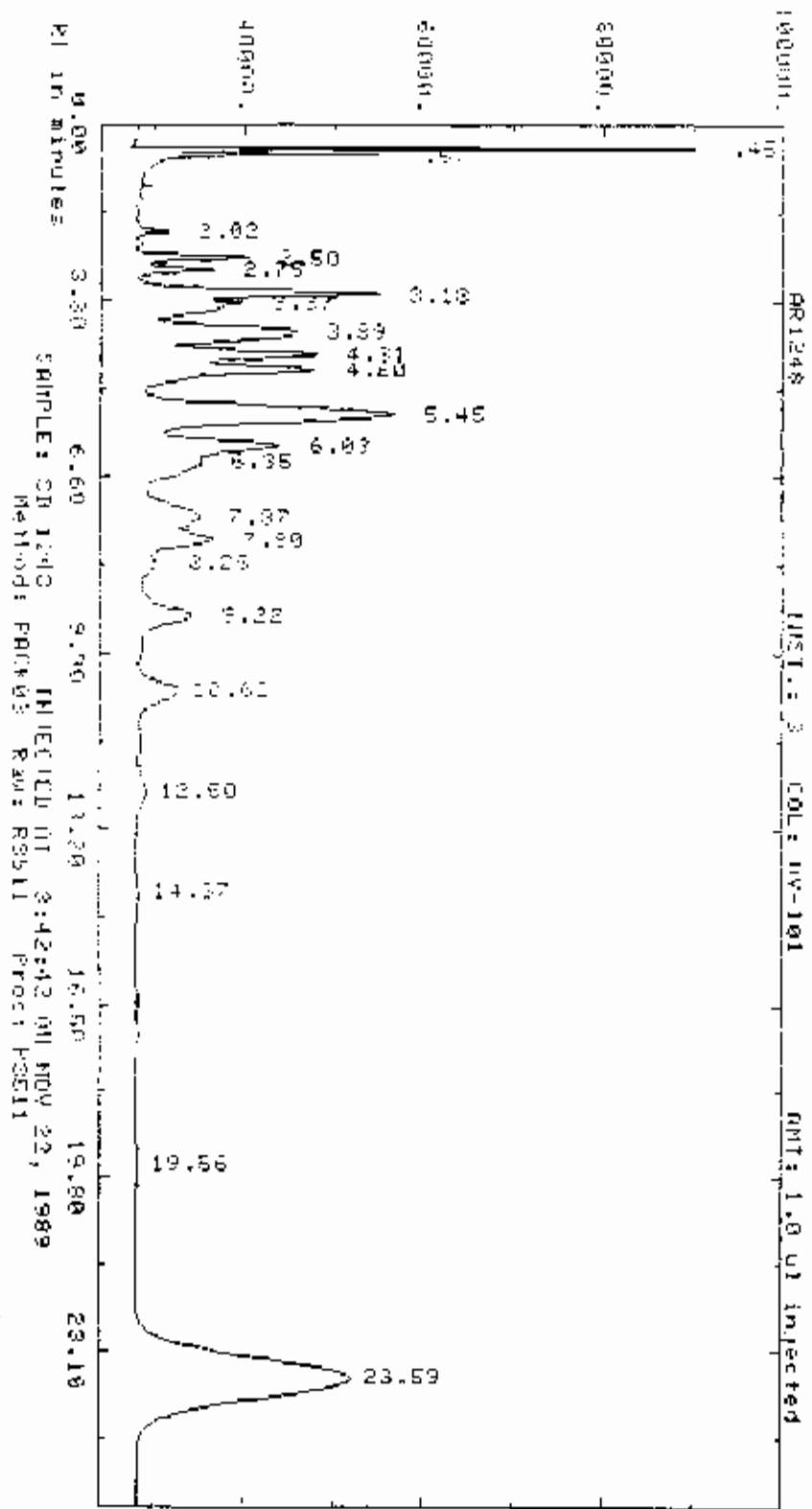
Ended not on baseline

RT	ITH	Factor	Area	Area %	Name
1.46	0.00	.10000E+01	29447.00	5.339	
1.67	0.00	.10000E+01	25011.00	4.576	
1.88	0.00	.10000E+01	17426.00	3.160	
1.53	0.00	.10000E+01	7187.00	1.293	
1.67	0.00	.10000E+01	1117.00	0.203	
1.89	0.00	.10000E+01	2115.00	0.384	
2.03	0.00	.10000E+01	8512.00	1.523	
2.52	0.00	.10000E+01	4100.00	0.739	
2.76	1.00	.10000E+01	16160.00	2.904	
3.20	0.00	.10000E+01	5111.00	0.920	
3.38	0.00	.10000E+01	74160.00	1.331	
3.94	0.00	.10000E+01	38400.00	6.925	
4.33	0.00	.10000E+01	23400.00	4.247	
4.61	0.00	.10000E+01	20700.00	3.751	
5.47	1.00	.10000E+01	87400.00	1.571	
6.05	0.00	.10000E+01	27700.00	5.044	
7.39	0.00	.10000E+01	6001.00	0.109	
7.82	0.00	.10000E+01	10281.00	0.187	
9.21	0.00	.10000E+01	17240.00	0.312	
10.67	0.00	.10000E+01	17821.00	0.323	
12.50	0.00	.10000E+01	9415.00	0.171	
14.37	0.00	.10000E+01	6299.00	0.114	
19.57	0.00	.10000E+01	10546.00	0.191	
23.61	0.00	.10000E+01	657767.00	12.000	

Total Area = 1302508 Total AREA X = 657767.500

Processed data file: P3509 Raw data file: P3509





Report: 13673.00 Channel: 3 A51048

Sample: SD 1948 Injected at 14:42:48 On NOV 22, 1980

DFPD Method: PAK03 Sev: SFG3E Subseq/Comp: 1/11 W L: 11

SI-width MU/min Delay Filter Yench
.500 .300 0.00 3000 Auto

Sup-Unit DvT 10-001 Ref-PUO %RTA %Dil-f Iso
NO 0.00 0 1.00 100.00 NO

Actual run time: 26.003 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA X	name
45	0.00	.100000E+01	21112	21	6.057
57	0.00	.100000E+01	21254	21	11.154
2.02	0.00	.100000E+01	21172	21	4.12
2.50	0.00	.100000E+01	22421	21	2.131
2.75	0.00	.100000E+01	12115	15	2.121
3.18	0.00	.100000E+01	21211	21	4.125
3.37	0.00	.100000E+01	22121	21	1.607
3.82	0.00	.100000E+01	114122	21	6.531
4.31	0.00	.100000E+01	64312	21	3.741
4.60	0.00	.100000E+01	40212	21	3.825
5.45	0.00	.100000E+01	22121	21	14.981
6.03	0.00	.100000E+01	22221	21	4.915
6.35	0.00	.100000E+01	22221	21	4.04
7.37	0.00	.100000E+01	22121	21	1.560
7.80	0.00	.100000E+01	32121	21	1.101
8.25	0.00	.100000E+01	6412	21	1.220
9.22	0.00	.100000E+01	52627	21	3.143
10.62	0.00	.100000E+01	51424	21	3.252
12.50	0.00	.100000E+01	14324	21	1.312
14.37	0.00	.100000E+01	2112	21	1.437
19.56	0.00	.100000E+01	5531	21	1.312
23.59	0.00	.100000E+01	662712	21	33.249

Total Area = 1732635.

Total AREA X = 662713.000

Processed data file: P3511

Raw data file: R3511

Report: 13674.00 Channel: 3 A-1254

Sample: SE 1254 Report: AT 3 11-02 04 NOV 88, 1st 2

ZERO Method: PAK03 Sec SF035 Subsystem: L/LB Eff: 10

Sl-Width MS/Min Deflag Range Font
.500 .300 0.00 5000 Auto

Sup-Link Det TH-Lvl Ref-RTM ZRTM XDR-F Sec
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26 012 minutes

Ended not on baseline

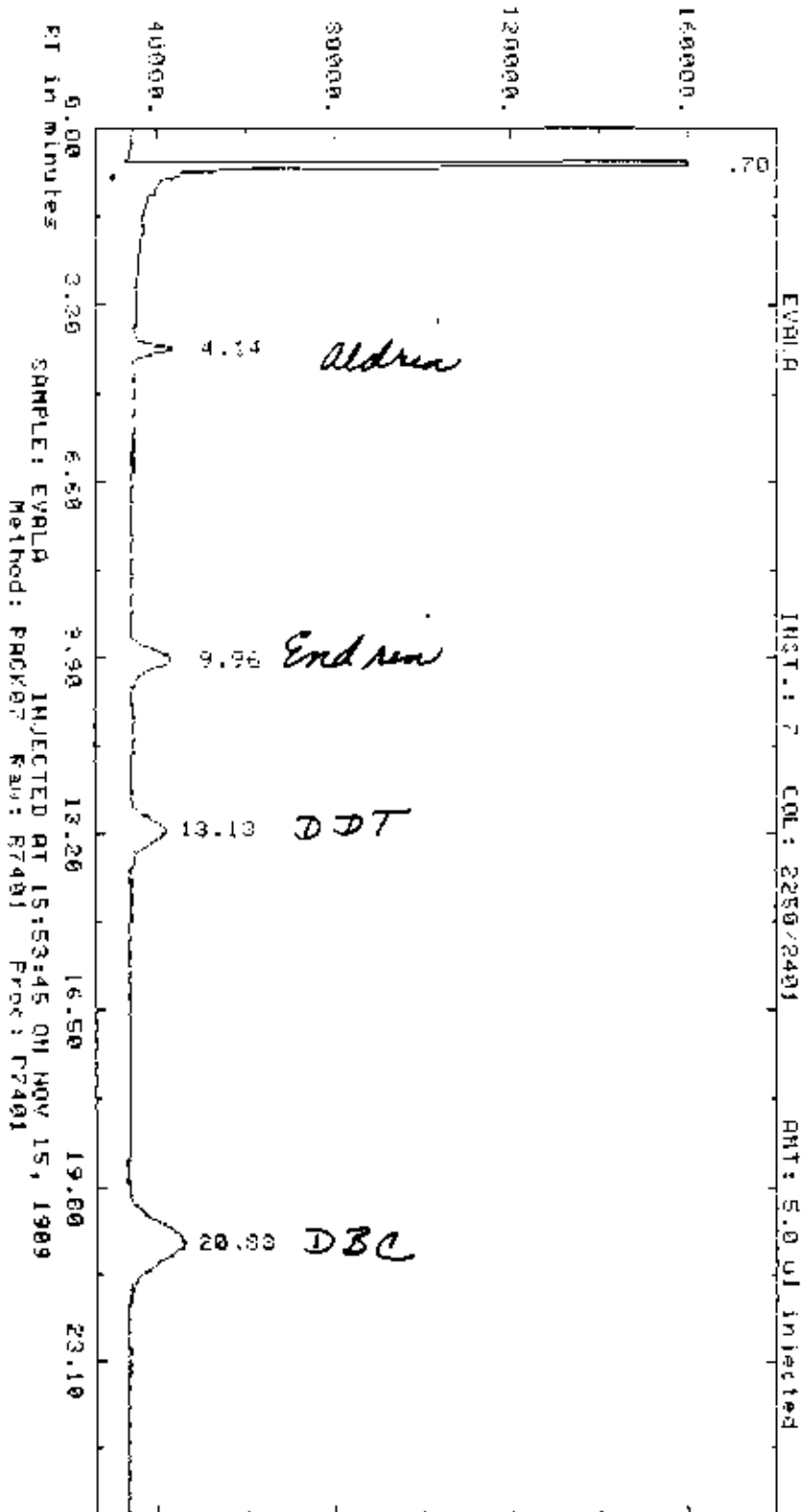
RT	TH	Factor	Area	AREA %	name
1.49	0.00	1.0000E+01	47251.18	2.664	
1.54	0.00	1.0000E+01	2155.65	1.232	
3.85	0.00	1.0000E+01	29169.10	1.663	
4.30	0.00	1.0000E+01	15612.80	0.894	
4.60	0.00	1.0000E+01	5019.40	0.288	
5.50	0.00	1.0000E+01	114007.00	6.321	
6.39	0.00	1.0000E+01	145992.00	8.155	
7.36	0.00	1.0000E+01	41364.00	2.276	
7.81	0.00	1.0000E+01	67541.00	3.666	
9.22	0.00	1.0000E+01	120653.00	6.310	
10.69	0.00	1.0000E+01	122373.00	6.293	
11.54	0.00	1.0000E+01	9079.00	0.503	
12.52	0.00	1.0000E+01	154413.00	8.617	
14.49	0.00	1.0000E+01	49449.00	2.709	
17.17	0.00	1.0000E+01	29619.00	1.541	
19.57	0.00	1.0000E+01	25066.00	1.399	
23.61	0.00	1.0000E+01	671767.00	32.473	

Total Area = 1792508.

Total AREA % = 871507.500

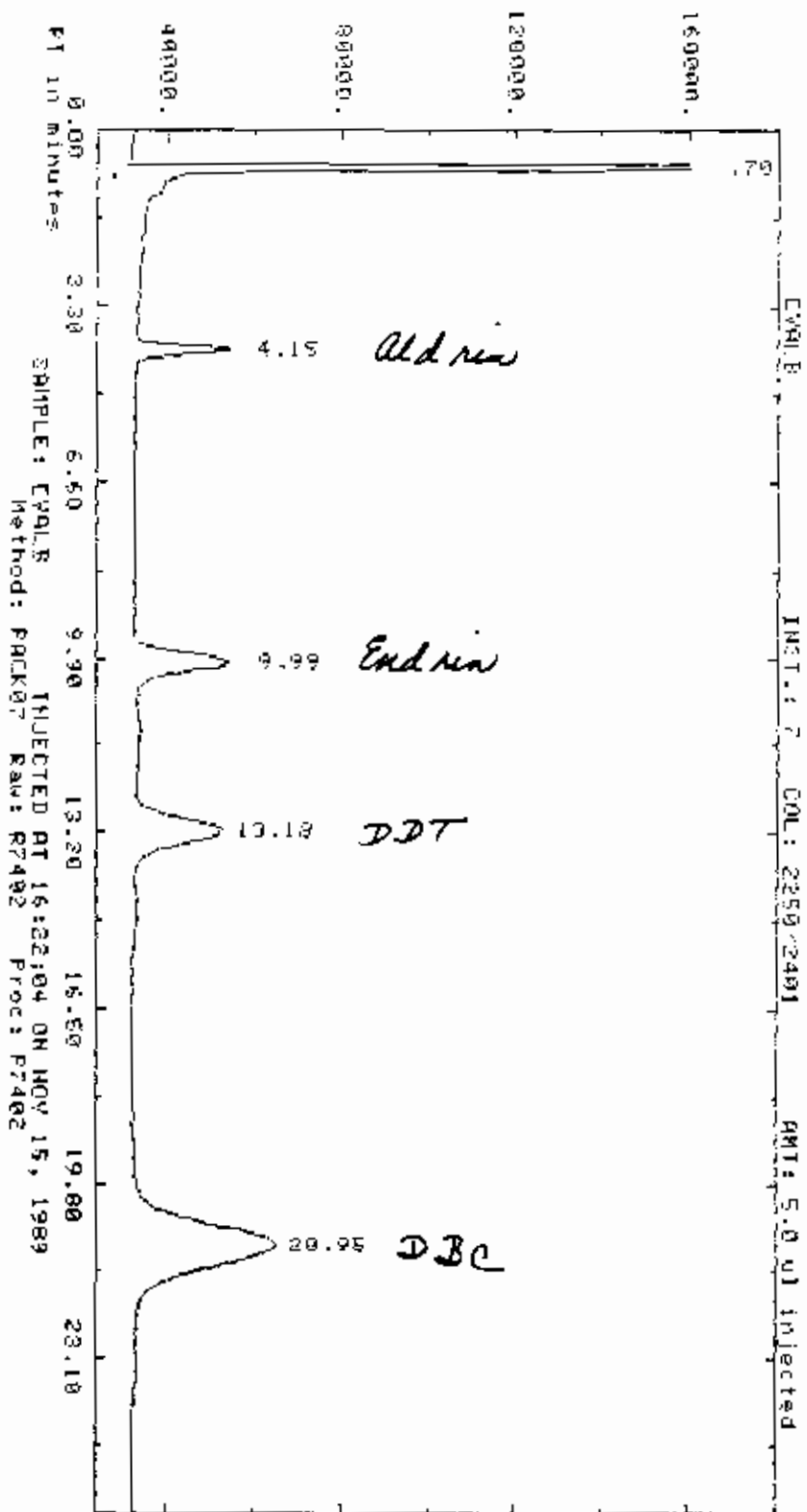
Processed data File: P3512

Raw data File: R3512



Report: 13776.00 Channel: 7 DUALA
 Sample: 50ALA Injected at 15 53:45 ON 00/ 15, 1987
 ZERO Method: PACK07 Seq: SEQ7A Subsq/Samp: 1/ 1 B*1: 1
 Sl-width MV/Min Delay Man-Ar Bunch
 500 .300 0.00 20000 4015
 Sup-Uny 90T ID-Lvl Ref-RTW XRTU 3011-? 1.50
 NO 0.00 0 30 5 0 130.00 NO
 Actual run time 26.017 minutes

RT	ITM	Factor	Area	AREA %	Name
.70	0.00	.10000E+01	2841016.	82.017	BS
4.14	0.00	.10000E+01	48528.	1.401	BS
9.76	0.00	.10000E-01	109528.	3.162	BS
13.13	0.00	.10000E+01	129896.	3.753	BS
20.53	0.00	.10000E+01	281979.	8.1570	BS
Total Area =		3463946.	Total AREA % =		334979.000
Processed data file: P7401			Raw data file: R7401		



Report: 13777 00 Channel: 7 ZUALL

Sample EVALB Injected at 16 22:04 ON NOV 15, 1979

ZERO Method: P&CK07 Seq: 55074 Seqs/p/Samp: 1/2 Btl: 2

SI-Min 500 HV-Min 300 Delay 0.00 Min-Cr 20000 Suck
Auto

Sup-Dek NO Dvt 0.00 ID-act 9 Ref-RTU .30 CRW 5.0 KDil-f 100 00 Iso
TC

Actual run time: 26 025 minutes

Ended not on baseline

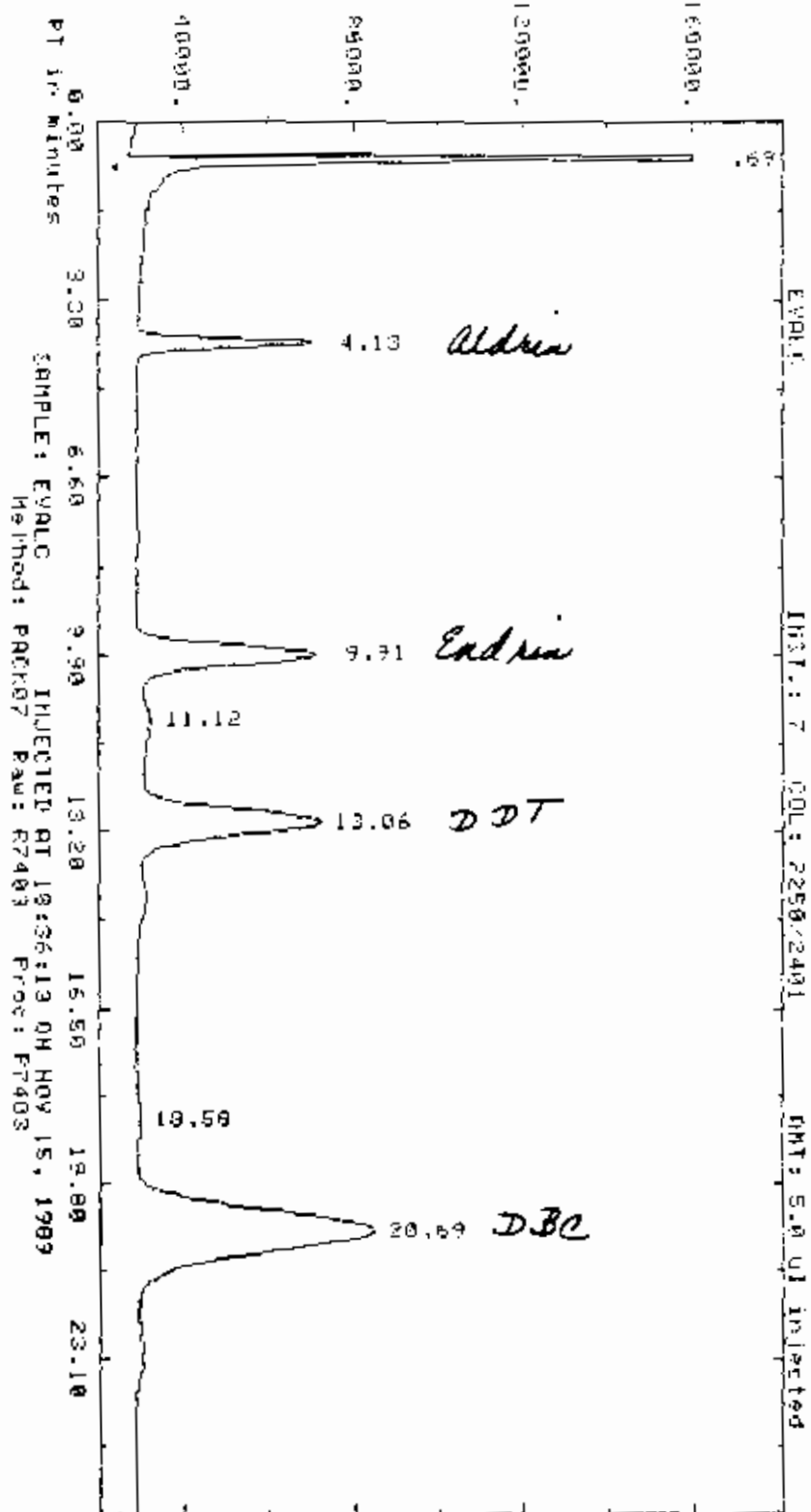
RT	ITH	Factor	Area	AREA %	Name
70	0.00	10000E+01	3328550	BS	66.596
4.15	0.00	10000E+01	119491	BB	2.391
9.29	0.00	10000E+01	269506	BB	5.392
13.10	0.00	10000E+01	330315	BB	6.609
20.95	0.00	10000E+01	950226	BB	19.012

Total Area = 4990090.

Total AREA % = 950226.600

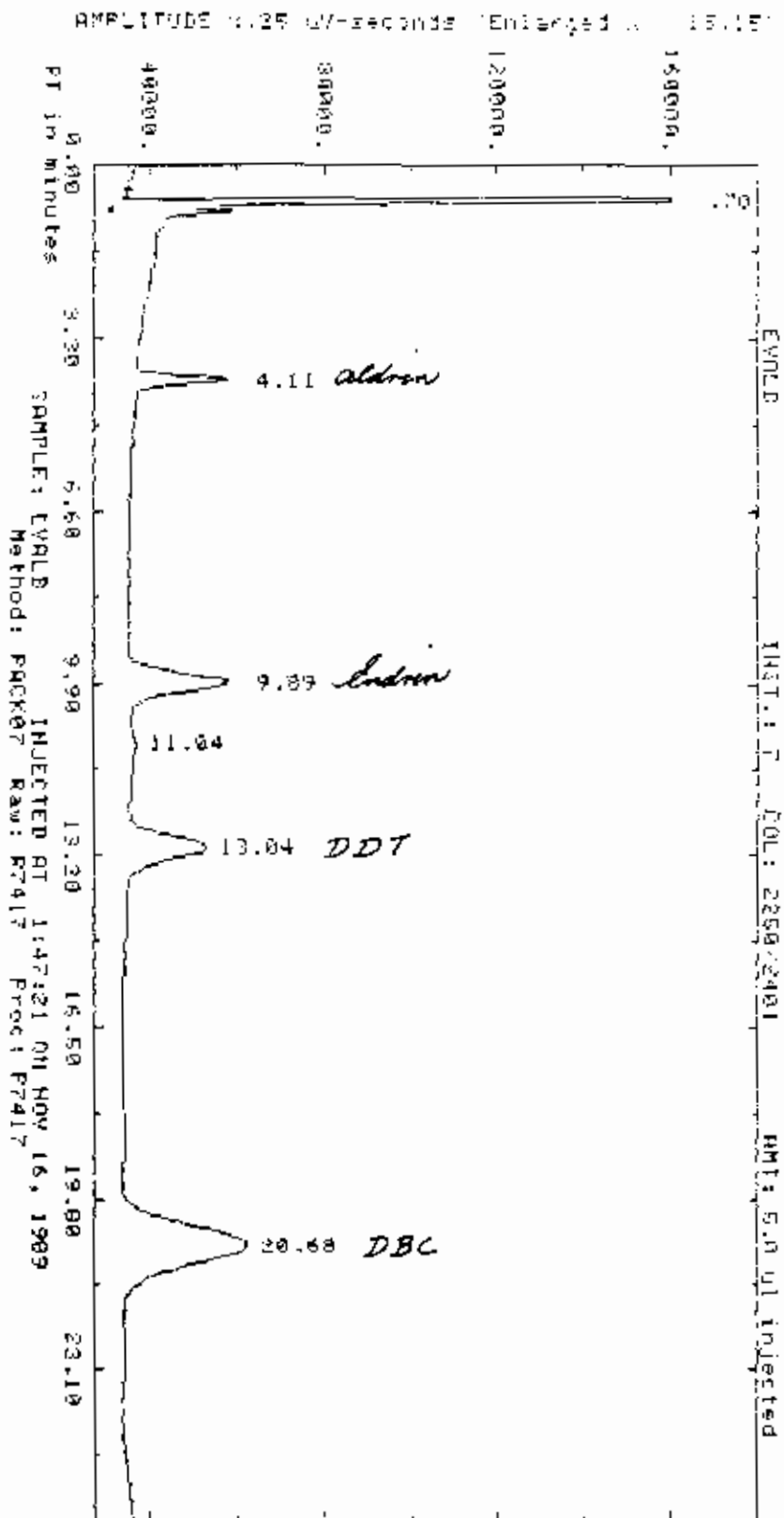
Processed data file: P7402

Raw data file: R7402



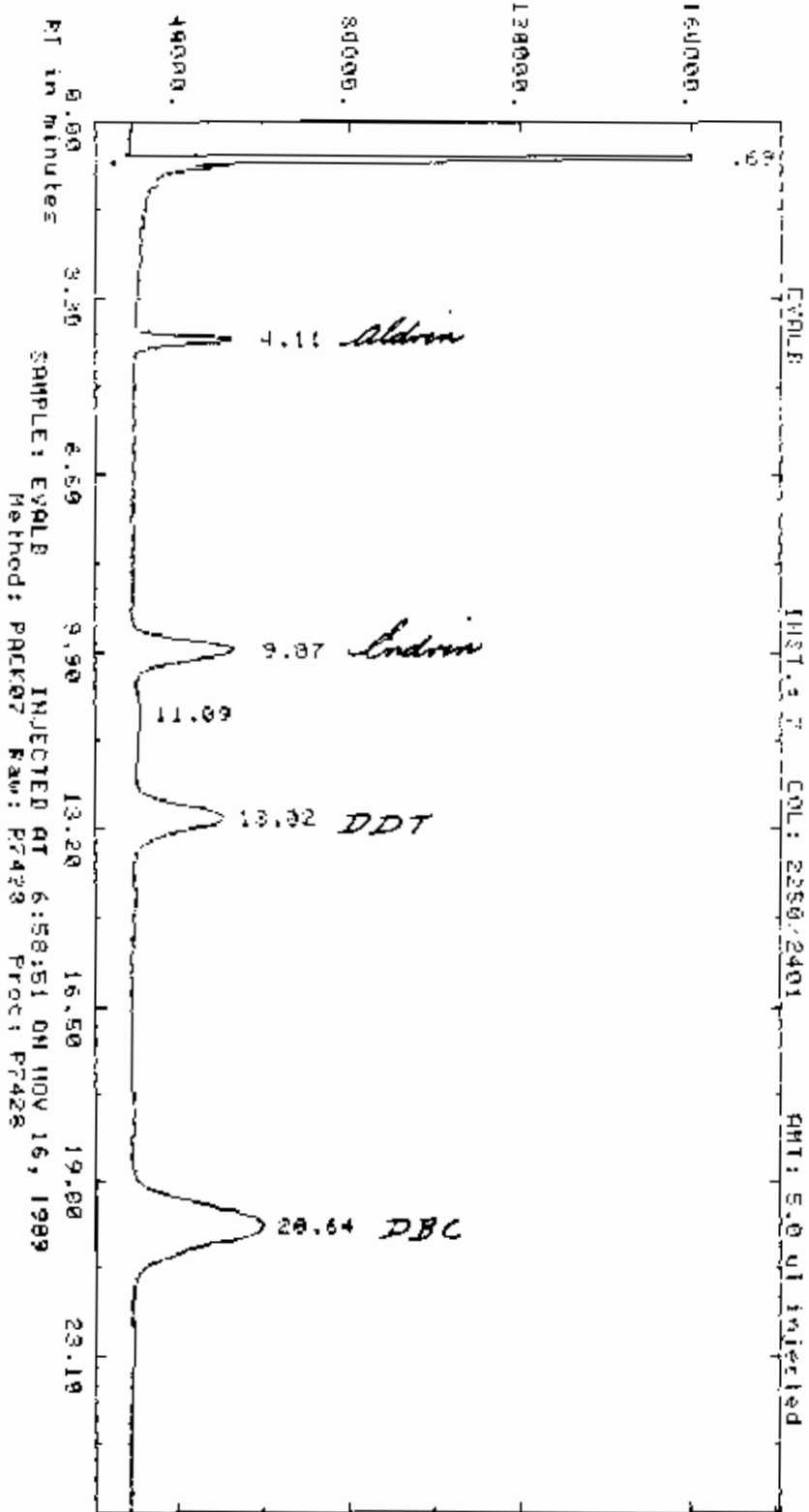
Report: 13751 00 Channel 7 EVALC
 Sample: EVALC Injected at 19:36:13 On NOV 15, 1989
 ZIRO Method: PACK07 Seq 92272 S/Inq/Camp: 1/3 Br1: 3
 Sl-width 500 492Min Delay 0.00 N15:nc Bunch
 500 .300 0.00 00000 Auto
 Sup-Dak Det ID-Lvl Ref-RTU ZRFD ZDdl-t 1.00
 00 0.00 0 0.36 0.0 100.00 00
 Actual run time: 33.003 minutes

RT	IRM	Factor	Area	AREA %	Value
6.9	0.00	.10000E+01	26210.17	BS	46.341
4.13	0.00	.10000E+01	23474.1	BB	4.150
9.91	0.00	.10000E+01	32350.9	BB	9.256
11.12	0.00	.10000E+01	30597	BB	.576
13.05	0.00	.10000E+01	6895.30	BB	12.171
18.58	0.00	.10000E+01	2298.9	BB	.406
20.67	0.00	.10000E+01	15316.20	BB	27.079
Total Area =		9656036	Total AREA % = 1531620.500		
Processed data file: P7403			Raw data file: R7403		



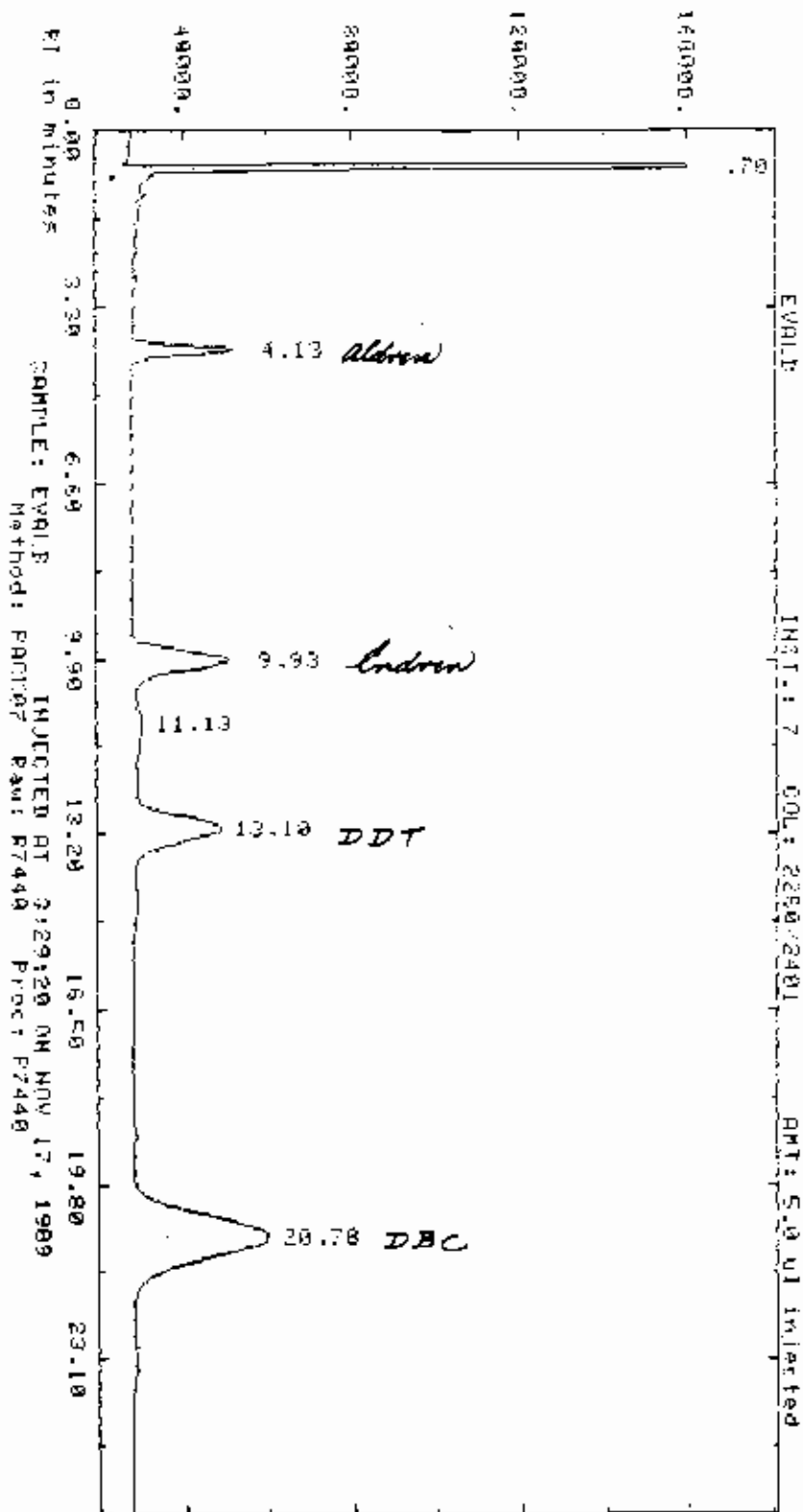
Report: 13794.11 Channel: 7 EVALR
 Sample: EVALR Injected at 1 42:21 ON NOV 16, 1989
 ZERO Method: PAKK07 Seq: 88024 Subcq/Samp: 1.17 Rtl: 17
 SI-Offset 500 MV/Min 1.300 Delay 1.00 In. An 20500 Bunch Auto
 Sep-Instk NO Out 0.00 TD-Lvl 0 Ref-RTW 1.50 SRW 5.0 XD11-f 100.00 Iso NO
 Actual run time: 26.925 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
1.70	0.00	1.0000E+01	3575611.	BB	75.822
4.11	0.00	1.0000E+01	115353.	BB	2.258
7.89	0.00	1.0000E+01	278859.	BB	5.554
11.04	0.00	1.0000E+01	20681.	BB	.412
13.04	0.00	1.0000E+01	279142.	BB	5.560
20.68	0.00	1.0000E+01	772863.	BB	15.394
Total Area = 5020510			Total AREA % = 77.863 500		
Processed data file: P7417			Raw data file: R7417		



Report: 13905.11 Channel: 2 DUALS
 Sample: EVAL8 Injected at 5.58.51 GN 700 15, 1307
 ZCPD Method PACK07 Seq: SLQ71 Subseq/Samp: 1/25 B11 28
 SL-width MV/Min Delay H1a/Gc Sunch
 500 300 0.00 20000 500
 Rep Unk DvT ID-Lo1 Rep-RTW XRTW XDL1-f 130
 NO 0.00 0 1.00 5.0 100.00 00
 Actual run time: 26.008 minutes
 Ended not on baseline

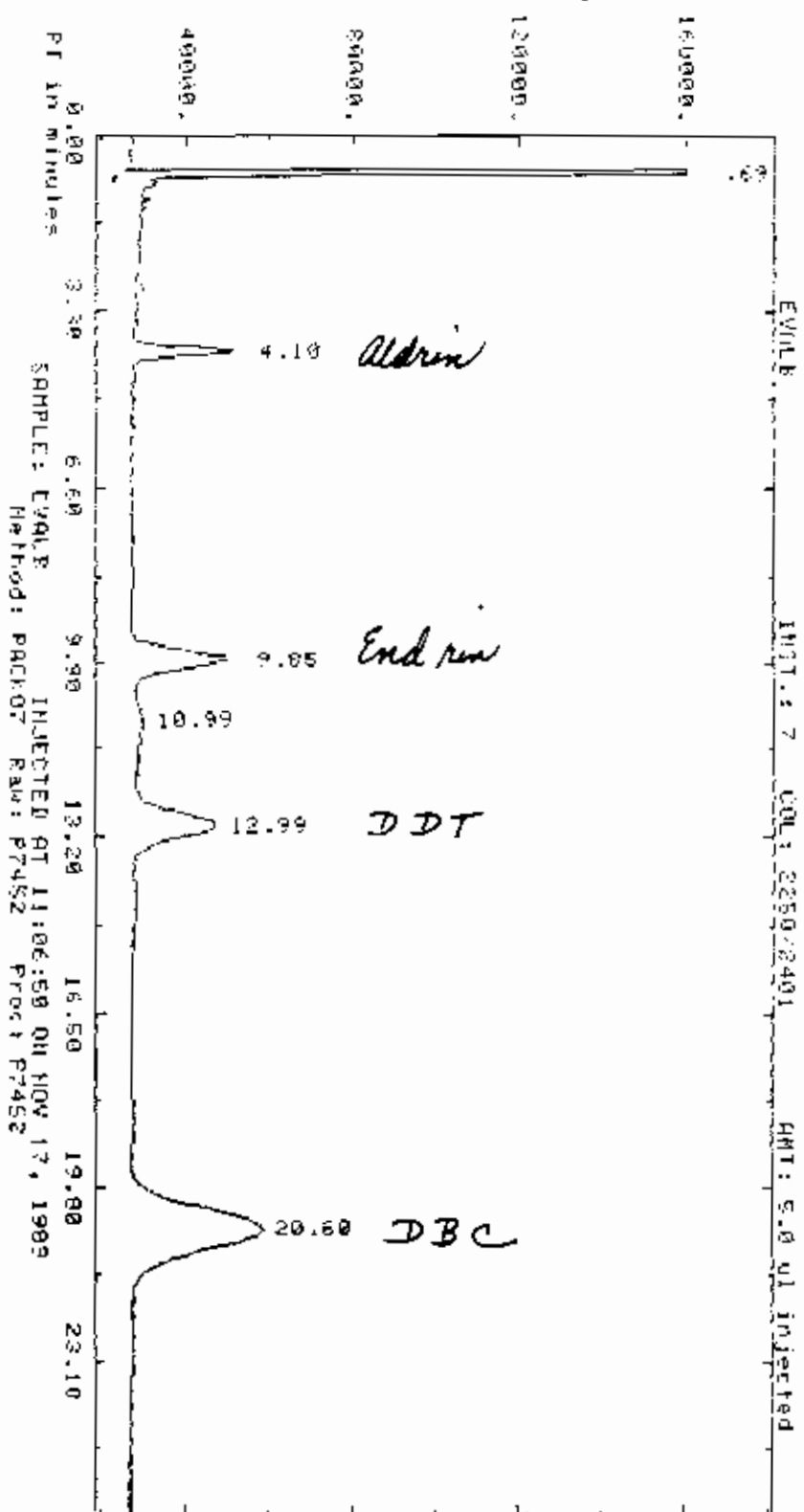
RT	WTM	Factor	Area	AREA %	Name
1.69	0.00	.10000E+01	4219230.	80	72.323
4.11	0.00	.10000E+01	127093.	BB	2.176
9.97	0.00	.10000E+01	290547.	BB	4.775
11.09	0.00	.10000E+01	22544.	BB	.386
13.02	0.00	.10000E+01	338733.	BB	5.800
20.64	0.00	.10000E+01	843432.	BB	14.441
Total Area =		5840500.	Total AREA % =		843432.000
Processed data file: P7428			Raw data file: R7428		



Report: 13817 00 Channel: 7 EVALS
 Sample: EVALB Injected at 3:29:29 On NOV 17, 1987
 ZERO Method: PADM07 Seq: 50074 Subseq/Samp 1/10 Std: 46
 SlewRate MU/min Delay 117.46 Search
 500 .300 0.00 79996 0.00
 Sup-Htg DVT IS-Lvl Perf-KW VRTW ADI' f LCO
 NO 0.00 0 30 5.0 100.00 00
 Actual run time: 26.025 minutes

RT	ITM	Factor	Area	AREA %	Name
7.70	0.00	10000E+01	3299117.08	66.391	
4.13	0.00	10000E+01	134696.00	2.711	
9.03	0.00	10000E+01	264329.00	5.220	
11.13	0.00	10000E+01	28612.00	0.576	
13.10	0.00	10000E+01	335476.00	6.751	
20.78	0.00	10000E+01	887115.00	17.852	
Total Area = 4969246			Total AREA % = 337115.500		
Processed data file P7440			Raw data file: R7440		

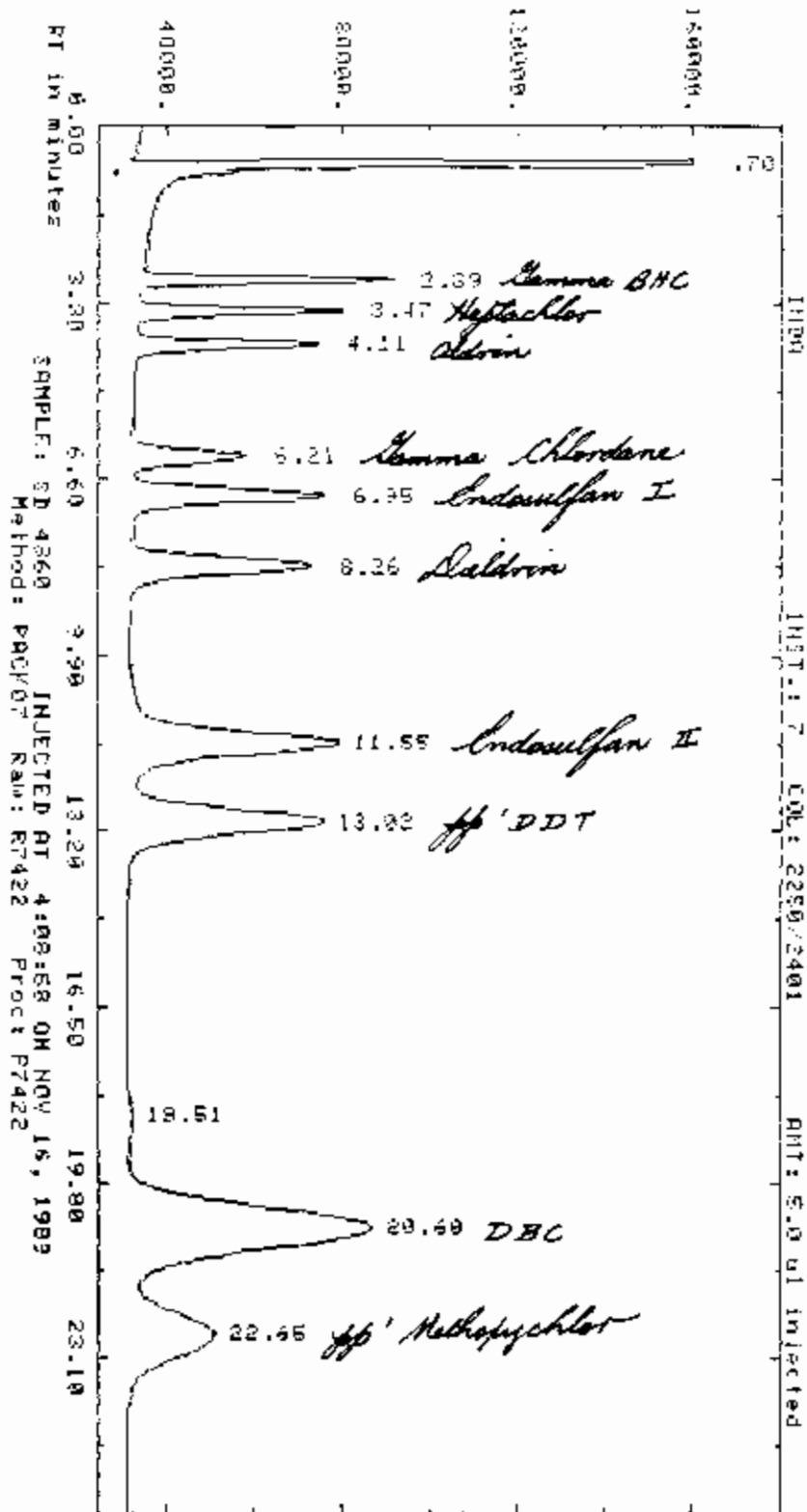
AMPLITUDE 0.25 uv-seconds (Enlarged x 12.34)



Report: 13829 00 Channel: 7 EVALB
 Sample: EVALB Injected at 11-26-50 ON NOV 17, 1959
 ZERO Method: PACK07 Seq: SEQ74 Subsq/Samp 1/50 Btl 52
 Strength MV-High Delay Time Sec Sunch
 .500 .300 0.00 20000 10.0
 Sep-Off Det ID-Lvl Ref-BTU CRF4 Dil-F Iso
 80 0.00 0 30 5.0 100 50 80
 Actual run time: 26.035 minutes
 Ended not on baseline

RT	TM	Factor	Area	AREA Z	Name
6.59	0.00	.10000E+01	2493556	BS	59.295
4.10	0.00	.10000E+01	130828.	BB	3.253
7.35	0.00	.10000E+01	373597.	BB	6.928
10.99	0.00	.10000E+01	29160.	BB	.723
12.79	0.00	.10000E+01	510789.	BB	7.729
20.60	0.00	.10000E+01	863475.	BB	21.473
Total Area =			4021307.	Total AREA Z = 863476.000	
Processed data file: P7452			Raw data file: R7452		

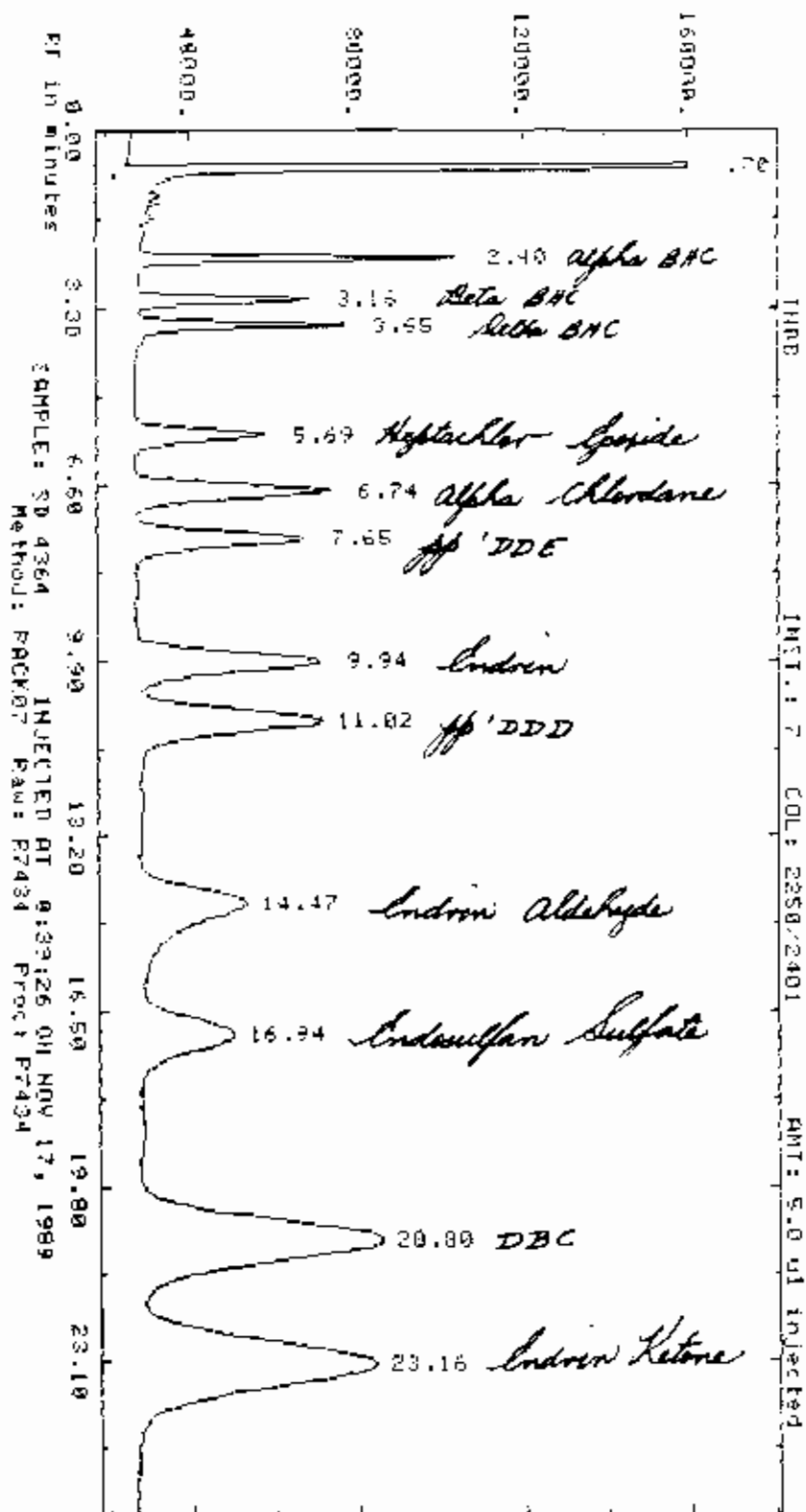
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Report: 15797 11 Channel: 7 LYLE
 Sample: SD 4360 Injected at 4:00 53 ON NOV 16, 1987
 ZERO Method PACK02 Seq: SEQ04 Seqs/ Samp 1/22 FCL 02
 Slendth MU/Min Delay NLtAr Sunch
 .500 .500 0.00 20000 0.00
 Sup-Mnk Dvt ID-Cul Ref-RTM %RTW %Dil-F Iso
 NO 0.00 0 1.20 5.0 100.00 00
 Actual run time: 25.017 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.70	0.00	.10000E+04	4064500	14.499	BB
2.89	0.00	.10000E+01	230927	2.516	BB
3.47	0.00	.10000E+01	323930	3.429	BB
4.11	0.00	.10000E+01	229279	2.498	BB
5.21	0.00	.10000E+01	204445	2.227	BB
6.95	0.00	.10000E+01	391655	4.266	BB
8.26	0.00	.10000E+01	441045	4.805	BB
11.55	0.00	.10000E+01	746358	8.131	BB
13.02	0.00	.10000E+01	704127	7.671	BB
18.51	0.00	.10000E+01	21779	.237	BB
20.60	0.00	.10000E+01	1476951	16.091	BB
22.65	0.00	.10000E+01	425025	4.630	BF

Total Area = 9178934 Total AREA % = 425025.000
 Processed data file: P7422 Raw data file: R7422



Report: 13811 00 Channel 7 I698

Sample: SD 4354 Injected at 7 39:26 ON 03/17, 1987

ZERO Method: PAKK97 Seq: 00079 CComp/Comp: 1/34 Br1 34

SI-Width MU/Min Delay Gain Lgain
500 500 0.00 25000 200

Sup-Unit Det ID-Lvl Ref-PU SSTw ZD1-1 Iso
HD 0.00 9 100 3.0 100.00 100

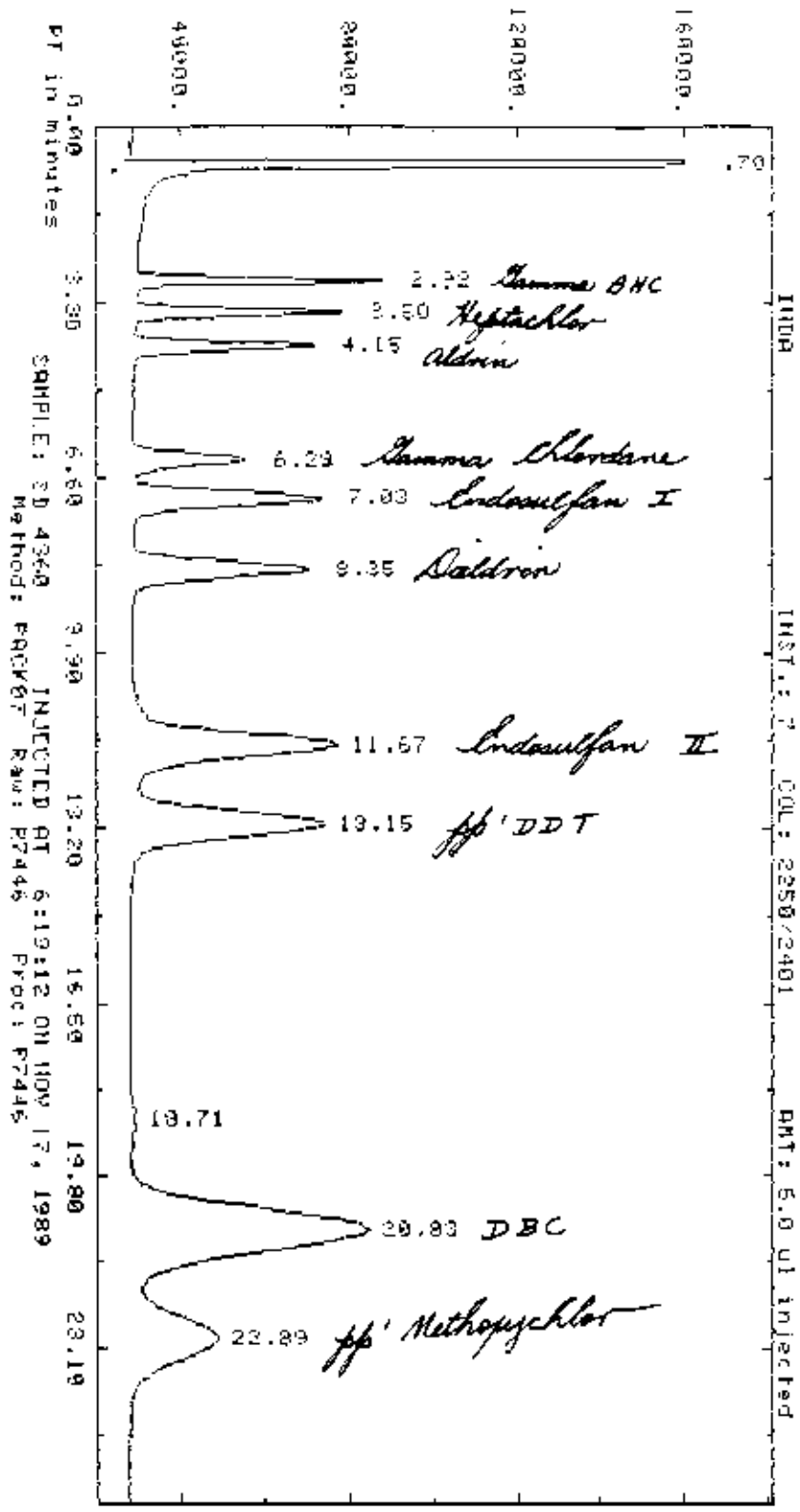
Active run time 35 017 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
2.70	0.00	1.0000E+01	4107935	36.104	BS
3.40	0.00	1.0000E+01	267807	2.354	BD
3.16	0.00	1.0000E+01	174069	1.550	BE
3.45	0.00	1.0000E+01	252686	2.21	BF
5.69	0.00	1.0000E+01	240550	2.114	BG
6.74	0.00	1.0000E+01	413756	3.636	BH
7.65	0.00	1.0000E+01	393672	3.506	BI
9.94	0.00	1.0000E+01	541214	4.757	BJ
11.02	0.00	1.0000E+01	226606	2.007	BK
14.47	0.00	1.0000E+01	608633	5.349	BL
15.94	0.00	1.0000E+01	458332	4.028	BM
20.90	0.00	1.0000E+01	1602535	14.085	BN
25.16	0.00	1.0000E+01	1534939	13.309	BO

Total Area = 11377750. Total AREA % = 100.000

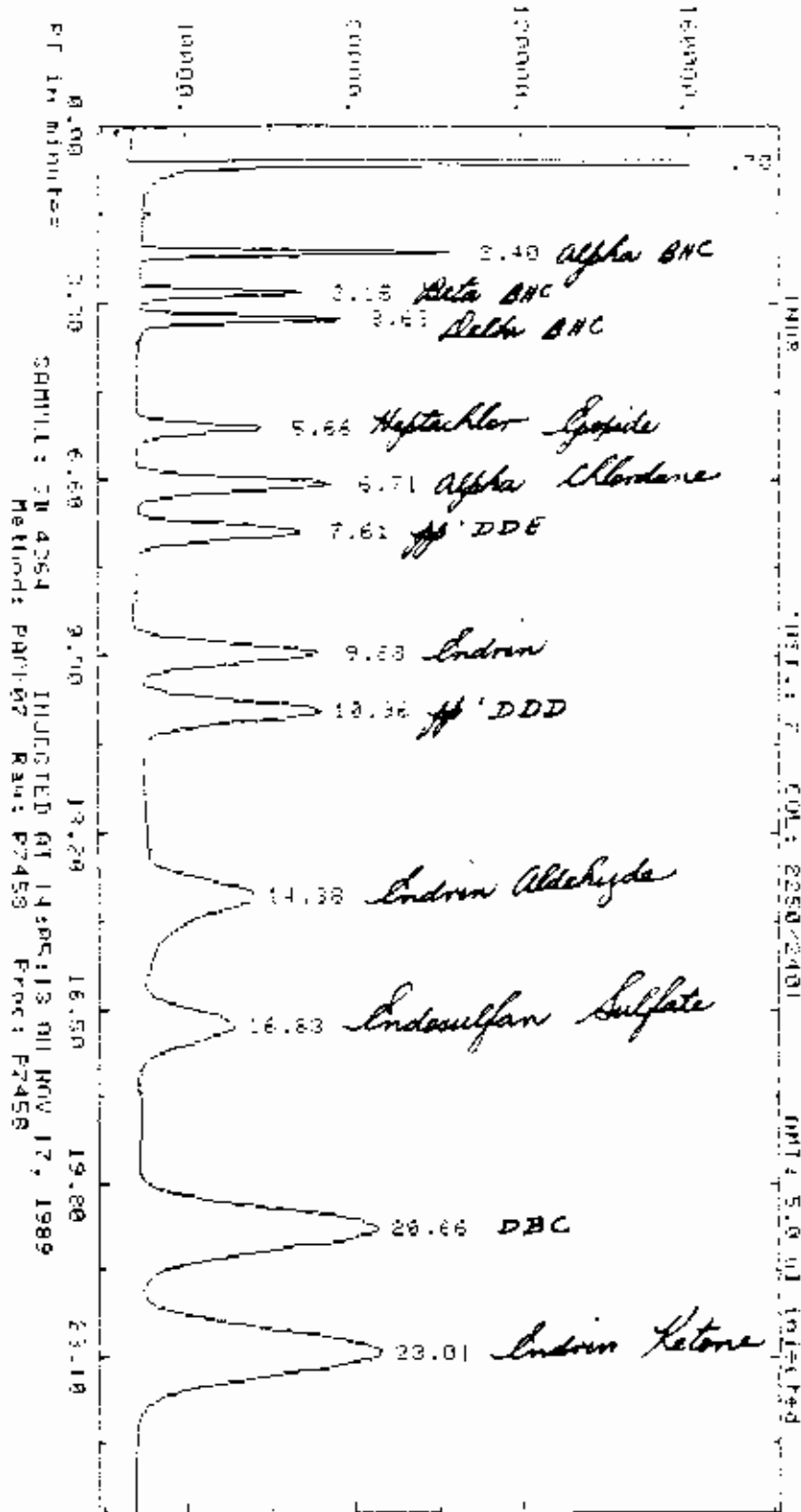
Processed data file: P7434 Raw data file: R7434



Report: 13823 00 Channel: 7 INDA
 Sample: SD 4560 Injected at 6:19:12 On NOV 17, 1989
 ZERO Method: PACK07 Seq: SEQ74 Seqsq/Samp 1/46 Btl. 46
 SI-width MV/Min Delay Gain-Dr Sunch
 .500 390 0 00 20000 Auto
 Sep-Unit Det ID-Lvl Ref-RTW ZRTW %Dil-F Lag
 NG 0.00 0 30 5.0 100.00 NN
 Actual run time: 25 008 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
2.70	0.00	.10000E+01	4190276.	14.179	B9
2.92	0.00	.10000E+01	211163.	2.543	B2
3.50	0.00	.10000E+01	250689.	2.517	B8
4.15	0.00	.10000E+01	240881.	2.540	B8
6.28	0.00	.10000E+01	212891.	2.245	B8
7.83	0.00	.10000E+01	404863.	4.269	B8
8.35	0.90	.10000E+01	456308.	4.811	B8
11.67	0.00	.10000E+01	764415.	8.059	B8
13.15	0.00	.10000E+01	730444.	7.701	B8
18.71	0.00	.10000E+01	22194.	.234	B2
20.83	0.00	.10000E+01	1523718.	16.065	B8
22.09	0.00	.10000E+01	458952.	4.839	B7

Total Area = 9484796. Total AREA % = 458952 000
 Processed data file: R7446 Raw data file: R7446

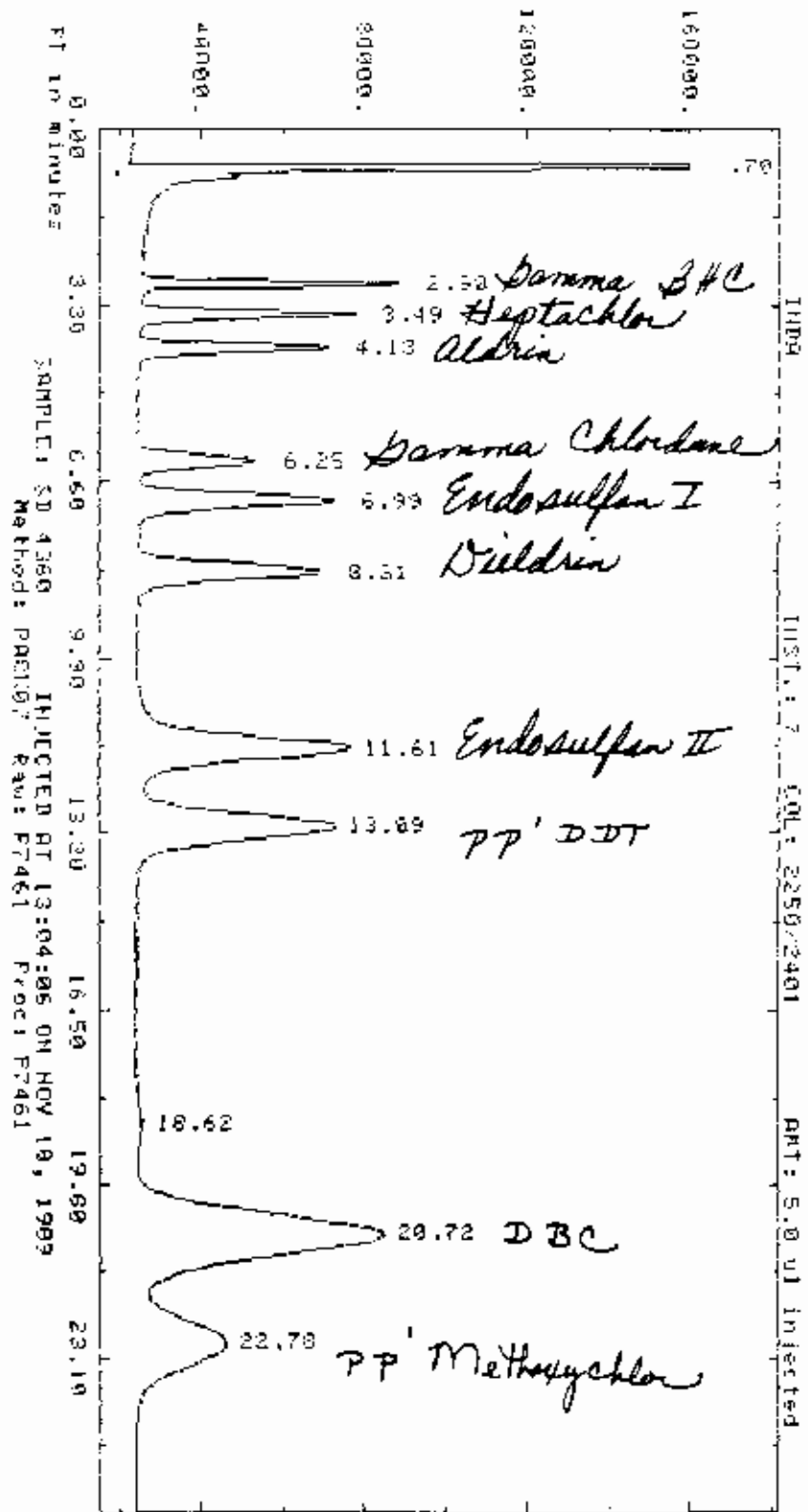


Report 13835 00 Channel 2 10.00
 Sampler: 50 4761 Date/Time: 14 05 13 W. SW. 10, 100
 ZERO Method: PAK02 Seq. 50024 Sample Name: 1000 604 50
 SL-Offset MU/Min Delay Min. Max. Area
 500 1.300 0.00 2.000 2.000
 Sample No. Out ID-Label Peak Label Area % Area %
 100 0.00 0.00 1.00 1.00 100.00 100.00

Actual run time: 26.008 minutes
 Entered not on baseline

RT	ITM	Factor	Area	AREA %	Name
2.40	0.00	1.0000E+01	4721948	6.526	
3.13	0.00	1.0000E+01	250313	0.314	
3.63	0.00	1.0000E+01	140227	1.432	
5.66	0.00	1.0000E+01	340757	4.327	
6.71	0.00	1.0000E+01	220957	2.777	
7.61	0.00	1.0000E+01	310357	3.594	
7.86	0.00	1.0000E+01	280306	3.411	
9.94	0.00	1.0000E+01	33206	0.428	
14.39	0.00	1.0000E+01	501493	5.221	
16.83	0.00	1.0000E+01	400170	4.634	
20.66	0.00	1.0000E+01	412175	4.974	
23.01	0.00	1.0000E+01	1546456	13.546	
			1676358	14.683	

Total Area = 11414938 Total AREA % = 1676352.000
 Processed data file: R7458 RAW data file: R7458

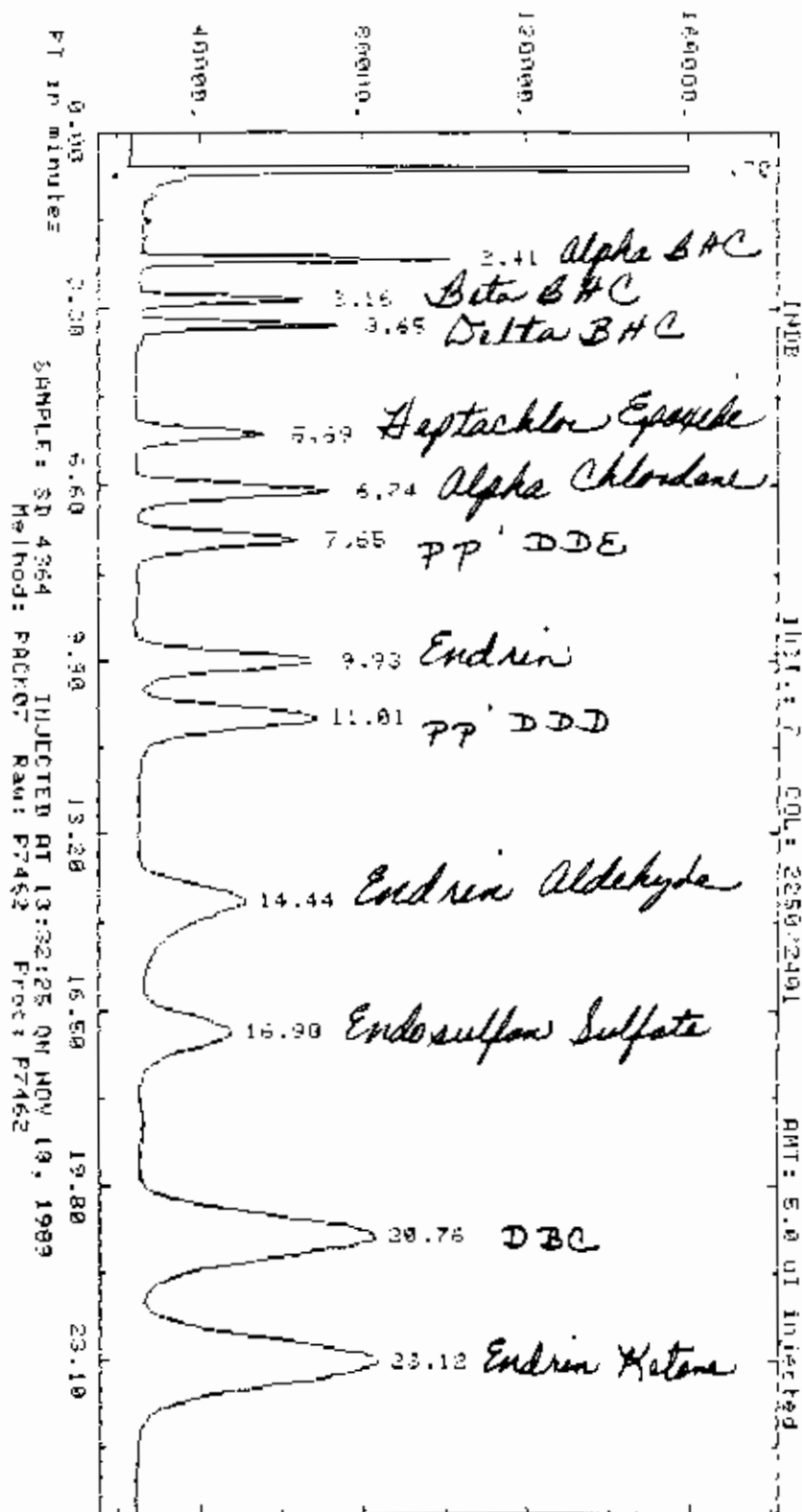


Report: 13832 00 Channel 2 (R24)
 Sample: SD 4360 Injection at 17.00 50 On Nov 18, 1987
 ZERD Method: PACH07 Seq: S2071 Sample Smp: 1761 R74 61
 Sl-Width 500 MV/Min 0.300 0.000 Pur-App 20000 Check
 Quo-Eng DC DVT ID-Lvl REF RTU %RM 201-f 150
 00 1.00 0 20 5 0 100 00 00
 Actual run time 20.017 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
1.70	0.00	10000E+01	5794536	41.202	B3
2.99	0.00	10000E+01	284689	2.732	B8
3.49	0.00	10000E+01	261558	2.629	B8
4.12	0.00	10000E+01	280895	2.730	B8
6.25	0.00	10000E+01	233491	2.408	B8
6.99	0.00	10000E+01	437042	4.629	B8
9.31	0.00	10000E+01	492776	5.093	B8
11.61	0.00	10000E+01	510765	5.456	B8
13.09	0.00	10000E+01	780819	8.954	B3
18.62	0.00	10000E+01	21069	248	B8
20.72	0.00	10000E+01	1528231	16.774	B8
22.76	0.00	10000E+01	492985	5.085	B8

Total Area = 9674930 Total AREA % = 492955.000

Processed data file: P7461 Raw data file: R7461



Kcpnrv: 13627 00 Channel: 2 TMOE
 Sample ID: 1364 Injected at 13:32:25 on Nov 17, 1997
 XFPD Method: PACK92 Sig. SEPTA Classq/Temp: 1:42 512 62
 RI-width: 500 MU/min Delay: 0.00
 300-019 DvT: 0.00 ID-Lvl: 0 Ref: PTW SFTs: 5.9 109.00 100
 NO Actual run time: 26.017 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
2.70	0.00	1.0000E+01	3316237	29.367	BB
2.91	0.00	1.0000E+01	271895	2.448	BB
3.16	0.00	1.0000E+01	175742	1.553	BB
3.85	0.00	1.0000E+01	248510	2.238	BB
5.69	0.00	1.0000E+01	236833	2.135	BB
6.74	0.00	1.0000E+01	423097	3.810	BB
9.65	0.00	1.0000E+01	371875	3.323	BB
9.93	0.00	1.0000E+01	535210	4.820	BB
11.01	0.00	1.0000E+01	620635	5.599	BB
14.44	0.00	1.0000E+01	622481	5.606	BB
16.90	0.00	1.0000E+01	431039	4.152	BB
20.76	0.00	1.0000E+01	1566155	14.284	BB
23.12	0.00	1.0000E+01	1715875	15.445	BB

Total Area = 11104206. Total AREA % = 100.000000
 Processed data file: P7462 Raw data file: R7462

RESULTS OF MANUAL INTEGRATION FROM QPLST

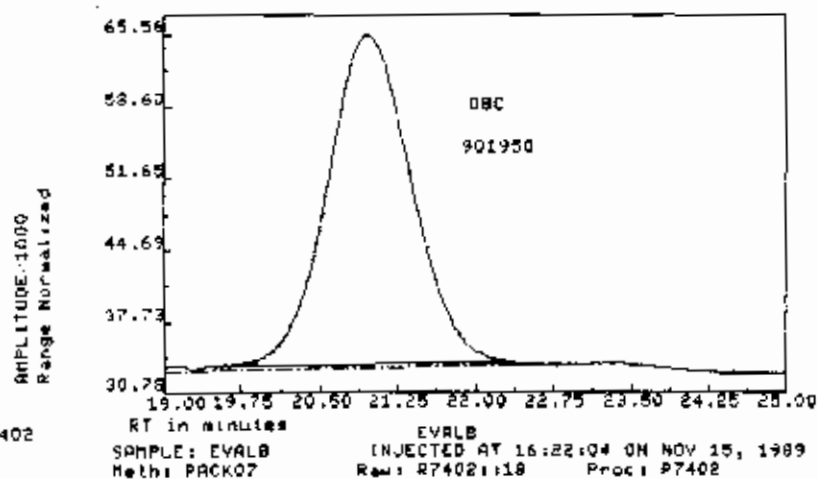
RAW DATA FILE: R7402:18

INJECTED AT: 15:22:04 ON NOV 15, 1989

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	19.76	22.28	901950	100.0

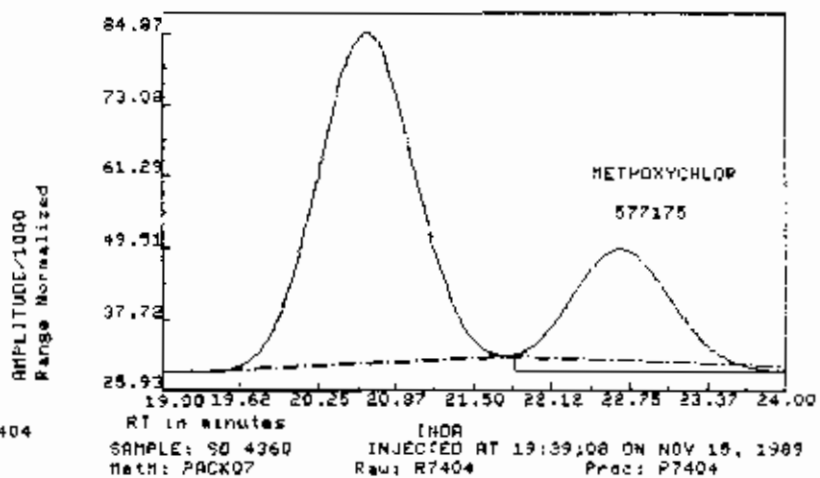
Select soft: key

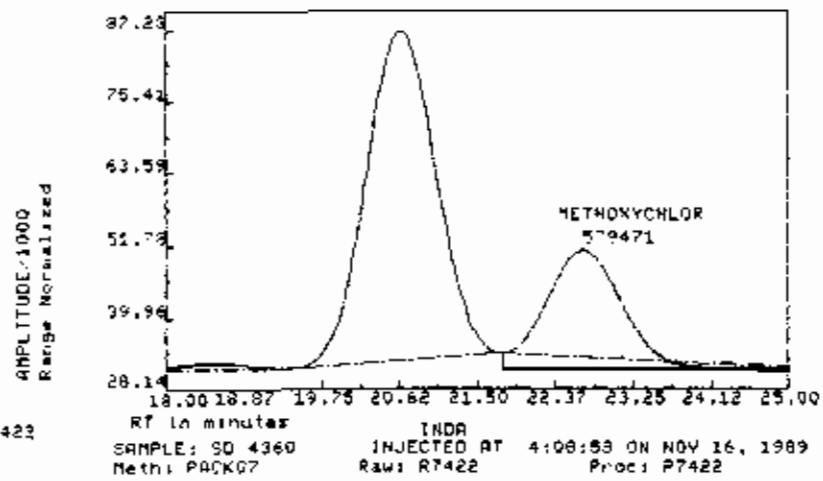


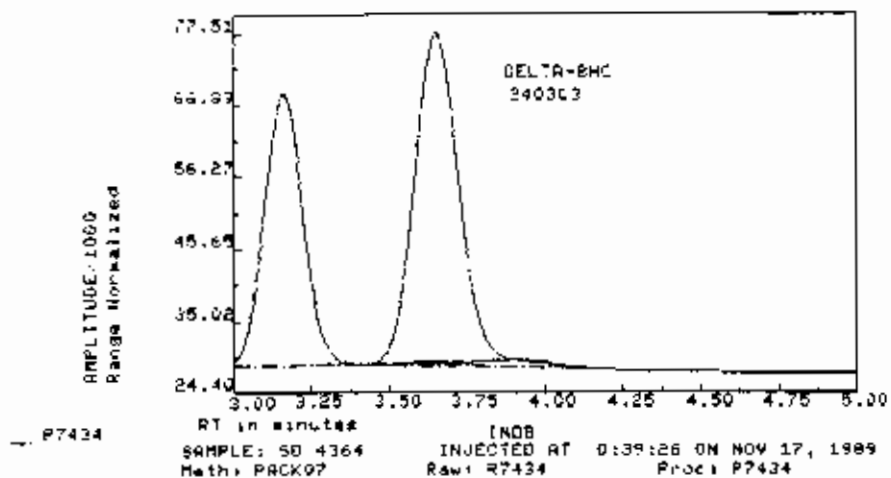
RESULTS ARE IN AREA PERCENT

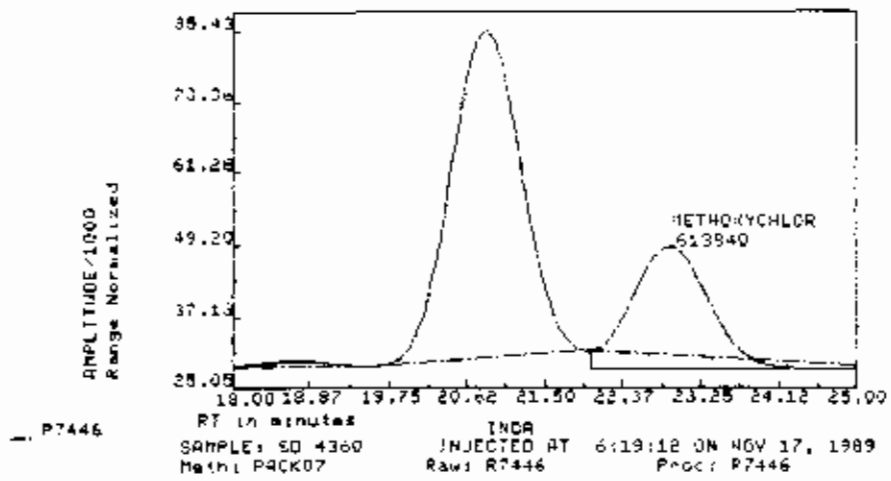
AREA#	TIME1	TIME2	AREA	AREA%
1	21.83	23.84	577175	100.0

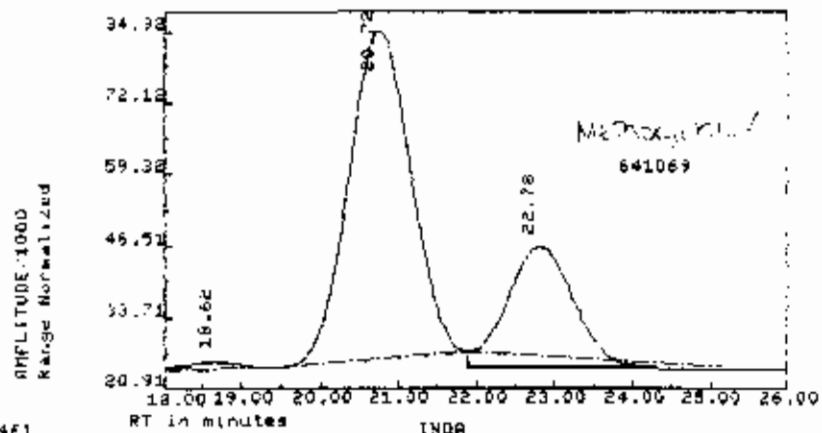
Select: softkey











P7461

SAMPLE: 60 4360 INDA INJECTED AT 13:04:06 ON NOV 28, 1989
Meth: PACK07 Raw: R7461::18 Proc: P7461

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STANDARD COMPOUND CONCENTRATIONS

STD INDA	CONC(ug/ml)
Gamma BHC	0.010
Heptachlor	0.010
Aldrin	0.010
Gamma Chlordane	0.010
Endosulfan I	0.010
Dieldrin	0.020
Endosulfan II	0.040
pp' DDT	0.050
pp' Methoxychlor	0.10

STD INDB	CONC(ug/ml)
Alpha BHC	0.010
Beta BHC	0.020
Delta BHC	0.010
Heptachlor Epoxide	0.010
Alpha Chlordane	0.020
pp' DDE	0.020
Endrin	0.040
pp' DDD	0.040
Endrin Aldehyde	0.040
Endosulfan Sulfate	0.040
Endrin Ketone	0.10

MULTICOMPONENT STANDARDS

AR100	1016	0.30
	1250	0.30
AR1221		1.0
AR1232		0.70
AR1242		0.40
AR1248		0.40
AR1254		0.30
TOXAPH		1.0

EVALUATION MIX STANDARDS

COMPOUND	EVALA	EVALB	EVALC
Aldrin	0.0020	0.0050	0.010
Endrin	0.0000	0.020	0.040
DDT	0.012E	0.030	0.050
DDE	0.020	0.050	0.10

SEQUENCE NAME - SEQ74::18

CALIB. STD LOT 2250/2401

L.U. REF 19

CHANNEL # 7

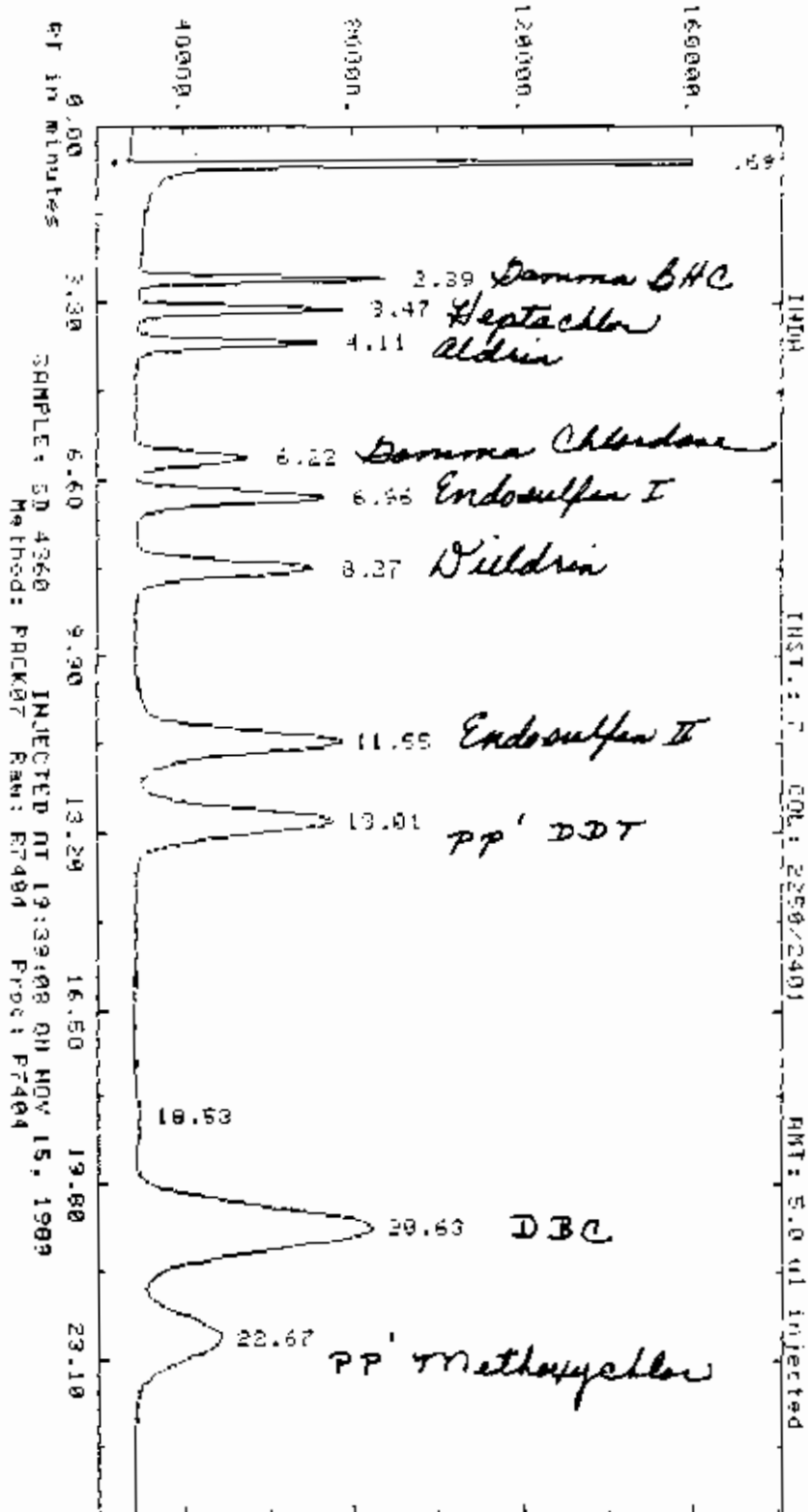
DATE STARTED

INSTRUMENT # 01

DATE FINISHED

TYPE(S) OF ANALYSIS PEST

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
EVALA	01	EVALA		15:53:45 ON NOV 15, 1989
EVALB	02	EVALB		16:22:04 ON NOV 15, 1989
EVALC	03	EVALC		18:36:13 ON NOV 15, 1989
SD 4360	04	INDA		19:39:08 ON NOV 15, 1989
SD 4364	05	INDB		20:07:27 ON NOV 15, 1989
SD TOXA	06	TOXAPH		20:35:48 ON NOV 15, 1989
SD ARMX	07	AR1060		21:04:07 ON NOV 15, 1989
SD 1221	08	AR1221		21:32:26 ON NOV 15, 1989
SD 1232	09	AR1232		22:00:45 ON NOV 15, 1989
SD 1242	10	AR1242		22:29:06 ON NOV 15, 1989
SD 1248	11	AR1248		22:57:24 ON NOV 15, 1989
SD 1254	12			23:25:44 ON NOV 15, 1989
PP 297247RSS	13	18210 1	9168TR121MS	23:54:04 ON NOV 15, 1989
PP 297248RSS	14	18210 1	9168TR121MSD	0:22:23 ON NOV 16, 1989
PP 300356 B1	15	13060 BCC03	PBLK36	0:50:42 ON NOV 16, 1989
PP 300252	16	13060 BCC03	BCC09	1:19:02 ON NOV 16, 1989
EVALB	17	EVALB		1:47:21 ON NOV 16, 1989
PP 300260	18	13060 BCC03	BCC11	2:15:41 ON NOV 16, 1989
PP 300262	19	13060 BCC03	BCC13	2:44:01 ON NOV 16, 1989
PP 300264	20	13060 BCC03	BCC14	3:12:20 ON NOV 16, 1989
PP 300266	21	13060 BCC03	BCC15	3:40:38 ON NOV 16, 1989
SD 4360	22	INDA		4:08:58 ON NOV 16, 1989
PP 300268	23	13060 BCC03	BCC16	4:37:17 ON NOV 16, 1989
PP 300270	24	13060 BCC03	BCC17	5:05:35 ON NOV 16, 1989
PP 300272	25	13060 BCC03	BCC18	5:33:54 ON NOV 16, 1989
PP 300275	26	13060 BCC03	BCC20	6:02:13 ON NOV 16, 1989
PP 300278	27	13060 BCC03	BCC22	6:30:33 ON NOV 16, 1989
EVALB	28	EVALB		6:58:51 ON NOV 16, 1989
PP 300283	29	13060 BCC03	BCC23	7:27:11 ON NOV 16, 1989
PP 300251	30	13060 BCC03	BCC08	10:22:14 ON NOV 16, 1989
PP 300255	31	13060 BCC03	BCC10	10:50:33 ON NOV 16, 1989
PP 302429 B1	32	17860 471	PBLK11	23:42:47 ON NOV 16, 1989
PP 302430 B2	33	17860 471	PBLK12	0:11:07 ON NOV 17, 1989
SD 4364	34	INDB		0:39:26 ON NOV 17, 1989

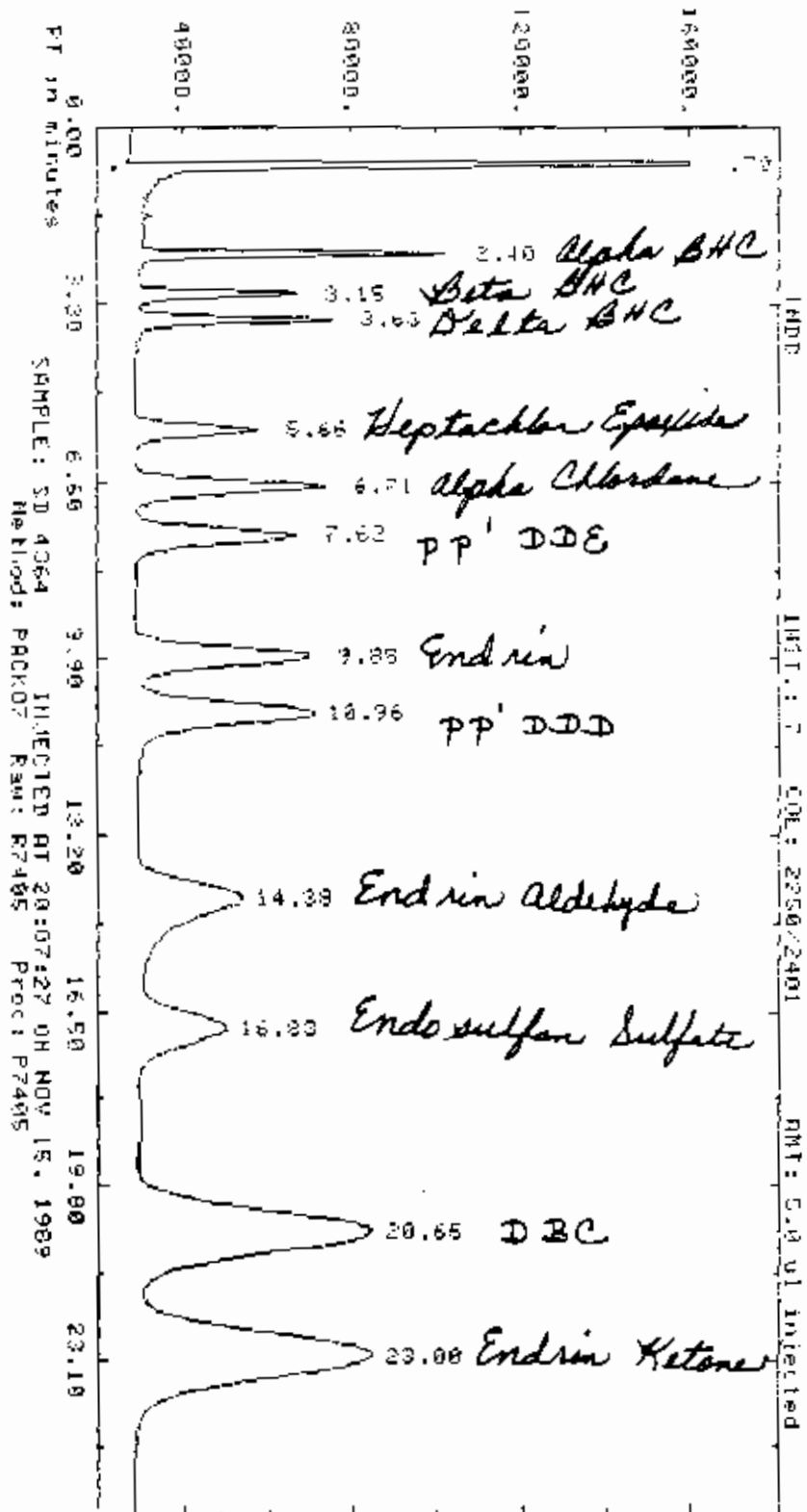


Report 13781.00 Channel 7 (N/A)
 Sample: SD 4366 Injected at 12:39:09 PM on 07/15/1979
 ZEP Method: P4CK07 Seq: 32074 Retention: 17.4 SEC 4
 Sl width 430 HV/min 300 Delay 0.00 min. pr 20000 Sens 0.00
 Dig-Link Det ID (vol) Ref-RTW 18.7% 2011.8 100
 10 0.00 0 1.30 3.6 100.00 100

Actual run time: 26.003 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
2.59	0.00	1.0000E+01	3917433.	42.382	D9
3.47	0.00	1.0000E+01	234929.	2.507	B8
4.11	0.00	1.0000E+05	230903.	2.462	B8
5.22	0.00	1.0000E+01	238842.	2.515	B8
6.24	0.00	1.0000E+01	203716.	2.166	B8
8.27	0.00	1.0000E+01	392826.	4.112	B8
11.55	0.00	1.0000E+01	145755.	1.546	B8
13.01	0.00	1.0000E+01	745754.	7.925	B8
18.53	0.00	1.0000E+01	240574.	2.518	B8
20.63	0.00	1.0000E+01	23191.	0.247	B8
22.67	0.00	1.0000E+01	1487512.	15.884	D8
			441813.	4.703	B8

Total Area = 9011880 Total AREA % = 441310.000
 Processed data file: P7404 Raw data file: R7404

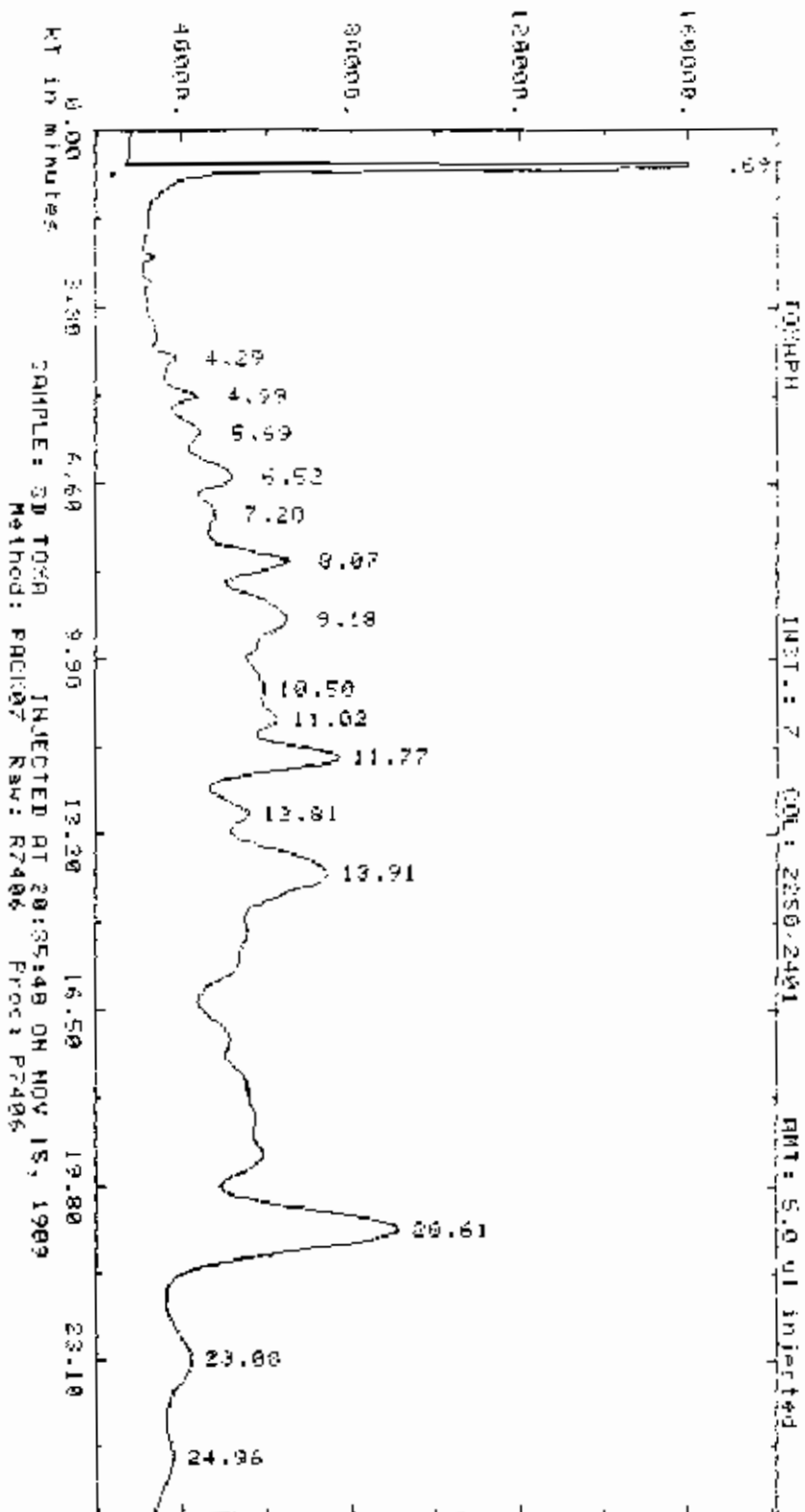


Report: 13702 00 Channel: 7 DATE
 Sample: SD 4364 Injected at 25 07.27 On NOV 13, 19 97
 ZERO Method: PAK07 Seq: SEQ01 Subseq: Smp 1 5 RTI 5
 Sl-Width 100/Min Delay 0.00 Min Top 20000 Min 5000
 Sup-Eng DJT CD-Lvl 0 Ref-RTW 1.30 RTU 5.0 %Dist-F 100.00 Iso NO
 Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
2.40	0.00	.10000E+01	3805108.	35.639	BS
3.15	0.00	.10000E+01	249487.	2.350	BB
3.63	0.00	.10000E+01	157350.	1.501	BB
5.84	0.00	.10000E+01	219151.	2.065	BB
6.71	0.00	.10000E+01	217364.	2.048	BB
7.62	0.00	.10000E+01	394732.	3.717	BB
9.88	0.00	.10000E+01	372164.	3.506	BB
10.96	0.00	.10000E+01	504851.	4.756	BB
14.38	0.00	.10000E+01	580592.	5.470	BB
15.83	0.00	.10000E+01	587565.	5.535	BB
20.65	0.00	.10000E+01	410206.	3.846	BB
23.00	0.00	.10000E+01	1487762.	14.016	BB
			1620429	15.266	BF

Total Area = 10614742 Total AREA % = 1620429.500
 Processed data file: P7405 Raw data file: R7405

AMPLITUDE x.25 uV-seconds (Enlarged) 15.45



Report: 13783.00 Channel: 2 RUN#4
 Sample: 50 TOXA Injected at 20:35 48 ON NOV 15, 1999
 ZERO Method: PCK07 Seq: SEC74 Subcc/Samp: 1/ 6 Pti: 6
 Sl-Width: 500 MV/Min: .300 Delay: 0.00 Min-Or: 20000 Bunch: 2016
 Sub-Link: 80 Det: 0.00 ID-Lvl: 9 Ref-RFW: .30 %RTM: 5.0 %UI: 100.00 Iso: 00
 Actual run time: 26.017 minutes
 Ended not on baseline

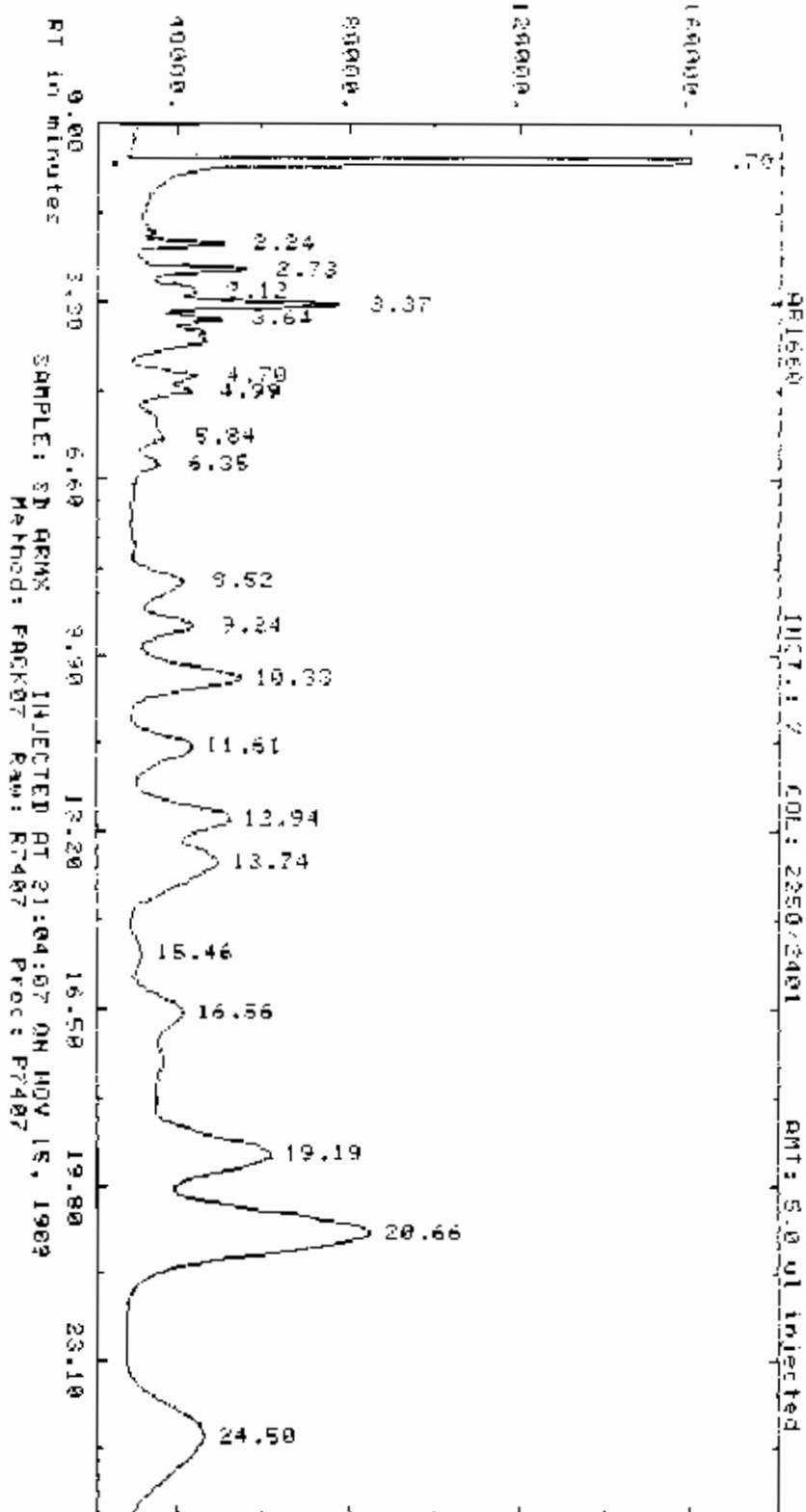
RT	ITH	Factor	Area	AREA %	Name
4.67	0.00	1.0000E+01	3877333	55.079	BB
4.89	0.00	1.0000E+01	22364	.329	BB
4.99	0.00	1.0000E+01	45361	.643	BB
5.69	0.00	1.0000E+01	45744	.650	BB
6.52	0.00	1.0000E+01	119831	1.703	BB
7.00	0.00	1.0000E+01	28000	.402	BB
9.07	0.00	1.0000E+01	187423	2.693	BB
9.13	0.00	1.0000E+01	276385	3.928	BB
10.50	0.00	1.0000E+01	34200	.484	BB
11.02	0.00	1.0000E+01	39510	.548	BB
11.77	0.00	1.0000E+01	332658	4.727	BB
12.81	0.00	1.0000E+01	77013	1.094	BB
13.91	0.00	1.0000E+01	516678	7.342	BB
20.61	0.00	1.0000E+01	1173166	16.671	BB
23.03	0.00	1.0000E+01	189447	2.692	BB
24.96	0.00	1.0000E+01	74534	1.059	BF

Total Area = 7037003.

Total AREA % = 74534.250

Processed data file: P7406

Raw data file: R7406



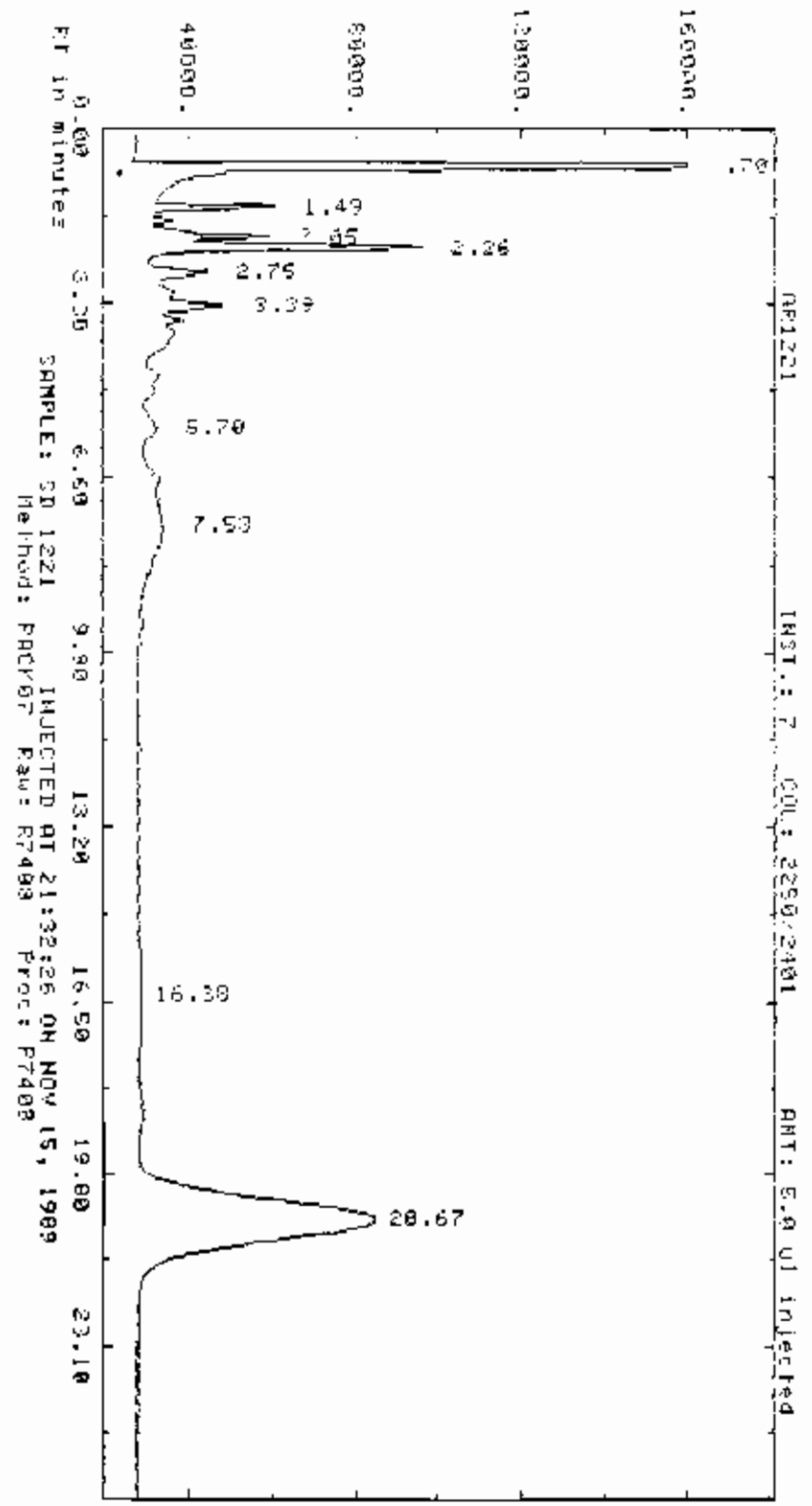
Report 13764 00 Channel 7 AB1160
 Sample: 3D ARMX Imported at 11:04 07 06 NOV 13, 1989
 ZERO Method: PACK07 Seq 00077 Source/Samp: 17 2 B11 7
 Sl-width 500 W/MIn 300 Delay 0 00 Mic sec 50000 Pouch
 Sig-Ok Det ID-Lvl Ref-SIU VPM ED11-P Iso
 P0 0.00 0 00 00 5 0 100.00 No

Actual run time: 26 025 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	name
10.20	0.00	1.00000E+01	5069000	17.434	BB
10.24	0.00	1.00000E+01	657007	2.806	BB
10.73	0.00	1.00000E+01	30394	1.055	BB
11.12	0.00	1.00000E+01	22001	0.866	BB
13.37	0.00	1.00000E+01	453756	15.910	BB
23.64	0.00	1.00000E+01	41410	1.508	BB
44.70	0.00	1.00000E+01	42315	1.519	BB
44.99	0.00	1.00000E+01	36523	1.449	BB
55.84	0.00	1.00000E+01	27832	1.342	BB
66.35	0.00	1.00000E+01	35325	1.434	BB
66.52	0.00	1.00000E+01	130225	4.597	BB
69.74	0.00	1.00000E+01	114173	4.000	BB
10.33	0.00	1.00000E+01	338288	11.847	BB
11.61	0.00	1.00000E+01	214972	7.636	BB
12.94	0.00	1.00000E+01	206466	7.531	BB
13.74	0.00	1.00000E+01	215007	7.636	BB
15.46	0.00	1.00000E+01	26542	0.925	BB
16.56	0.00	1.00000E+01	134167	4.645	BB
19.19	0.00	1.00000E+01	503620	17.174	BB
20.66	0.00	1.00000E+01	1186343	41.544	BB
24.50	0.00	1.00000E+01	678482	23.563	BB

Total Area = 8156650 Total AREA % = 698482 000
 Processed data file: P7407 Raw data file: R7407

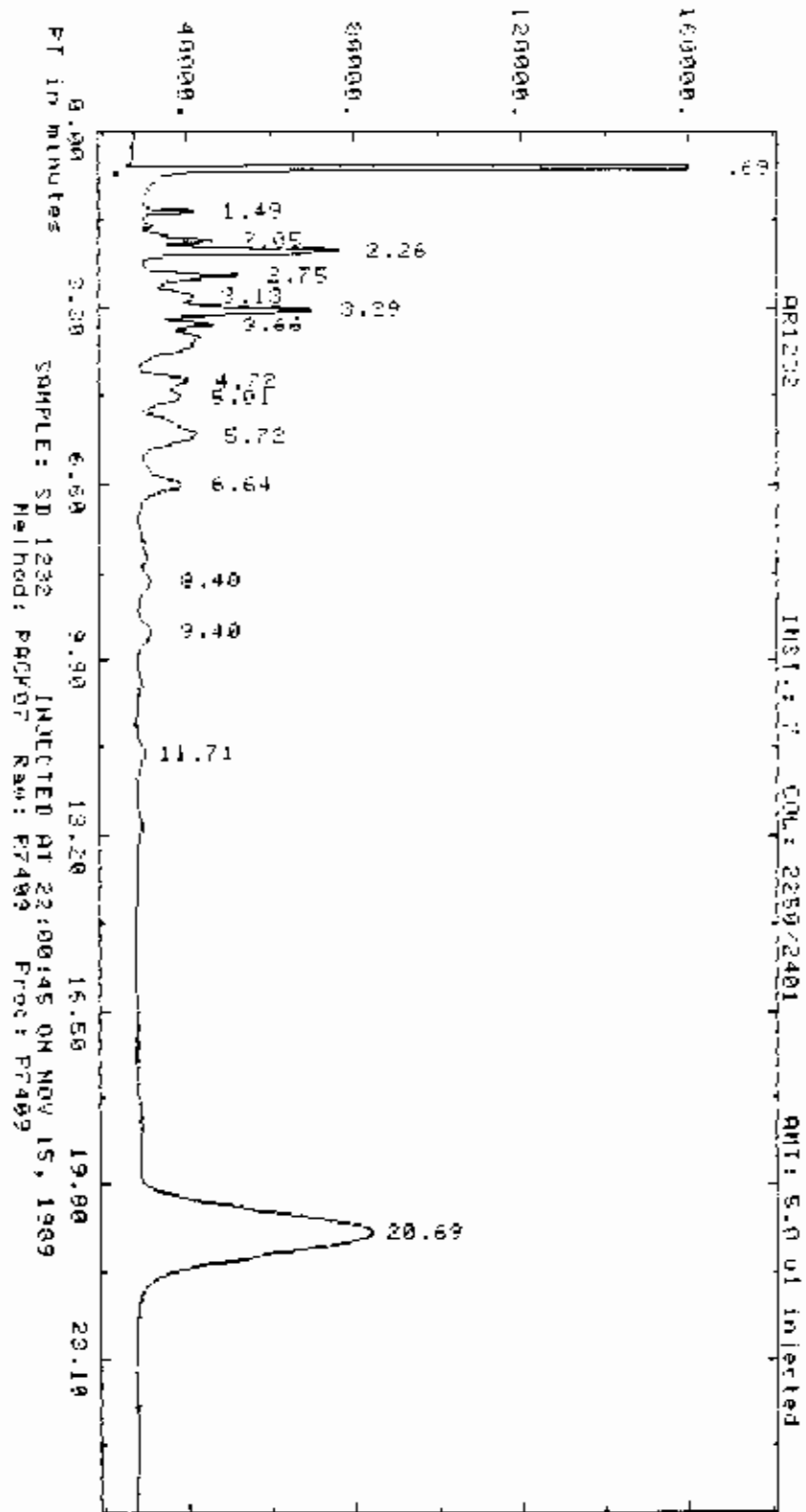
AMPLITUDE 7.25 uV-seconds (Enlarged) 11.08



Report 13785.00 Channel: 7 OR1221
 Sample: 50 1221 Injected at 21-32-36 On NOV 15, 1969
 ZERO Method: PACK07 Seq: 0E074 Cbcbq/Samp 17 8 Std 3
 Sl-width MV/Min Delay dimer Sunch
 .500 .300 0.00 20000 4075
 Sup-Bkx Det ID-Lvl Ref-RTW VRTU KDil-9 Spa
 510 0 00 0 1.30 5.0 100 Cu 00
 Actual run time: 26.308 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Area
.70	0.00	1.0000E+01	3645891.	BS	62.356
1.49	0.00	1.0000E+01	21938	BS	1.326
2.05	0.00	1.0000E+01	45547.	BS	7.78
2.26	0.00	1.0000E+01	215055.	BS	3.624
2.75	0.00	1.0000E+01	55211.	BS	0.944
3.39	0.00	1.0000E+01	58179.	BS	.960
5.70	0.00	1.0000E+01	40303.	BS	.689
7.53	0.00	1.0000E+01	84762.	BS	1.452
16.38	0.00	1.0000E+01	33573.	BS	.574
20.67	0.00	1.0000E+01	1606269.	BF	27.444

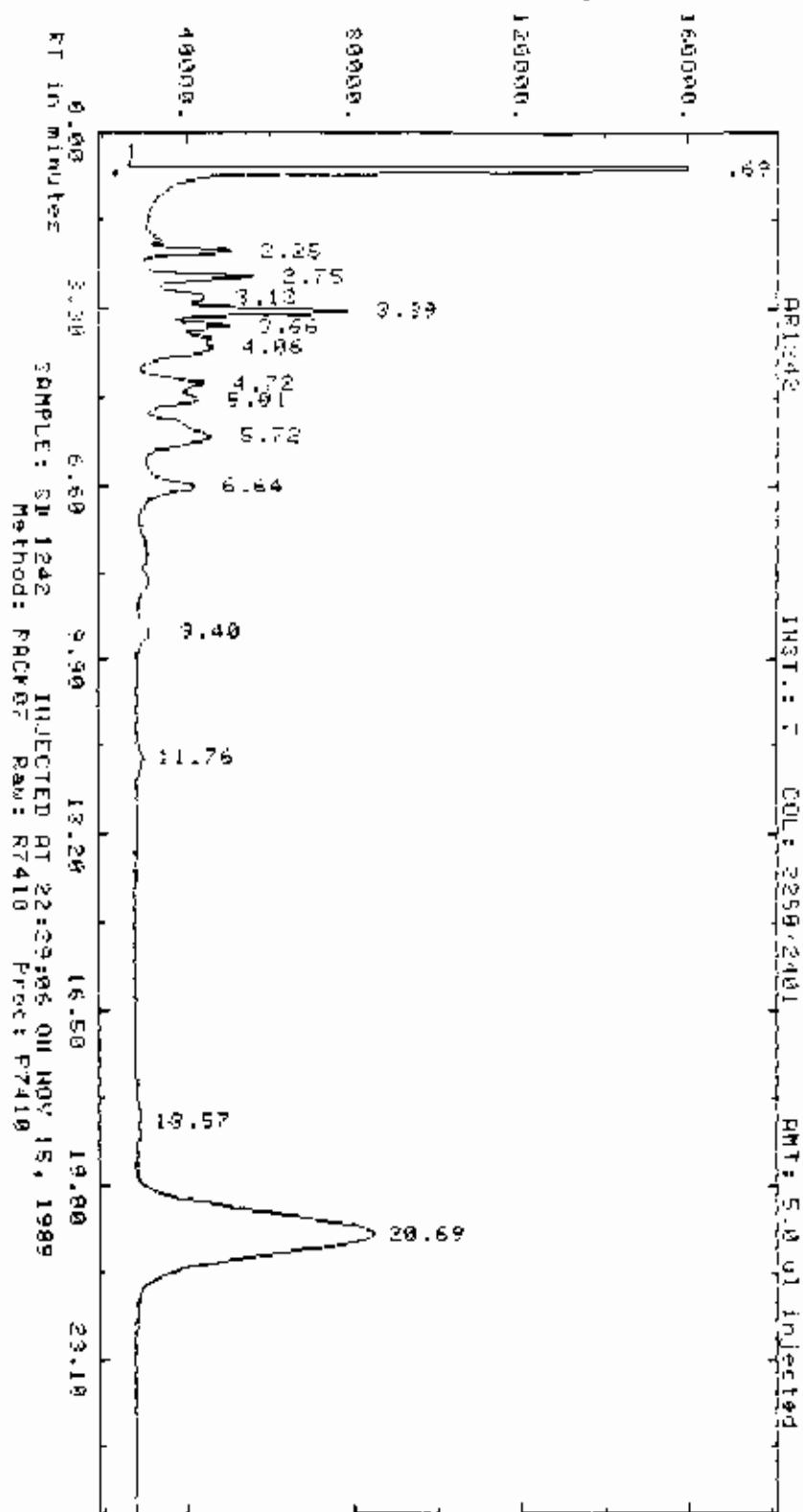
Total Area = 5852800. Total AREA % = 1606269.000
 Processed data file: P740B Raw data file: R740B



Report 13786 00 Channel: 7 AR1230
 Sample: S0 1232 Injected at 22 00 45 00 15, 1969
 ZERO Method: PADK07 Seq: SEQ74 Subseq (Comp): 17 8 PRL: 0
 Sl-Width MU/Min Delay Min-Ac Bunch
 500 .300 0 00 20000 Auto
 Sup-Flk DvT ID-Lvl Ref: RTW CRTW ST-1-P Iso
 NO 0.00 0 30 5.0 100 00 NO
 Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA 2	Name
.69	0.00	10000E+01	2944893.	54.637	BB
1.49	0.00	10000E+01	28591.	.530	BB
2.05	0.00	10000E+01	25744.	.778	BB
2.26	0.00	10000E+01	158457.	2.940	BB
2.75	0.00	10000E+01	82771.	1.536	BB
3.13	0.00	10000E+01	24153.	.438	BB
3.59	0.00	10000E+01	133291.	2.473	BB
3.66	0.00	10000E+01	35282.	.655	BB
4.72	0.00	10000E+01	31755.	.325	BB
5.01	0.00	10000E+01	25906.	.481	BB
5.72	0.00	10000E+01	151296.	2.807	BB
6.64	0.00	10000E+01	27861.	1.816	BB
8.40	0.00	10000E+01	21139.	.392	BB
9.40	0.00	10000E+01	38403.	.713	BB
11.71	0.00	10000E+01	29701.	.551	BB
20.69	0.00	10000E+01	1550584.	28.918	BB

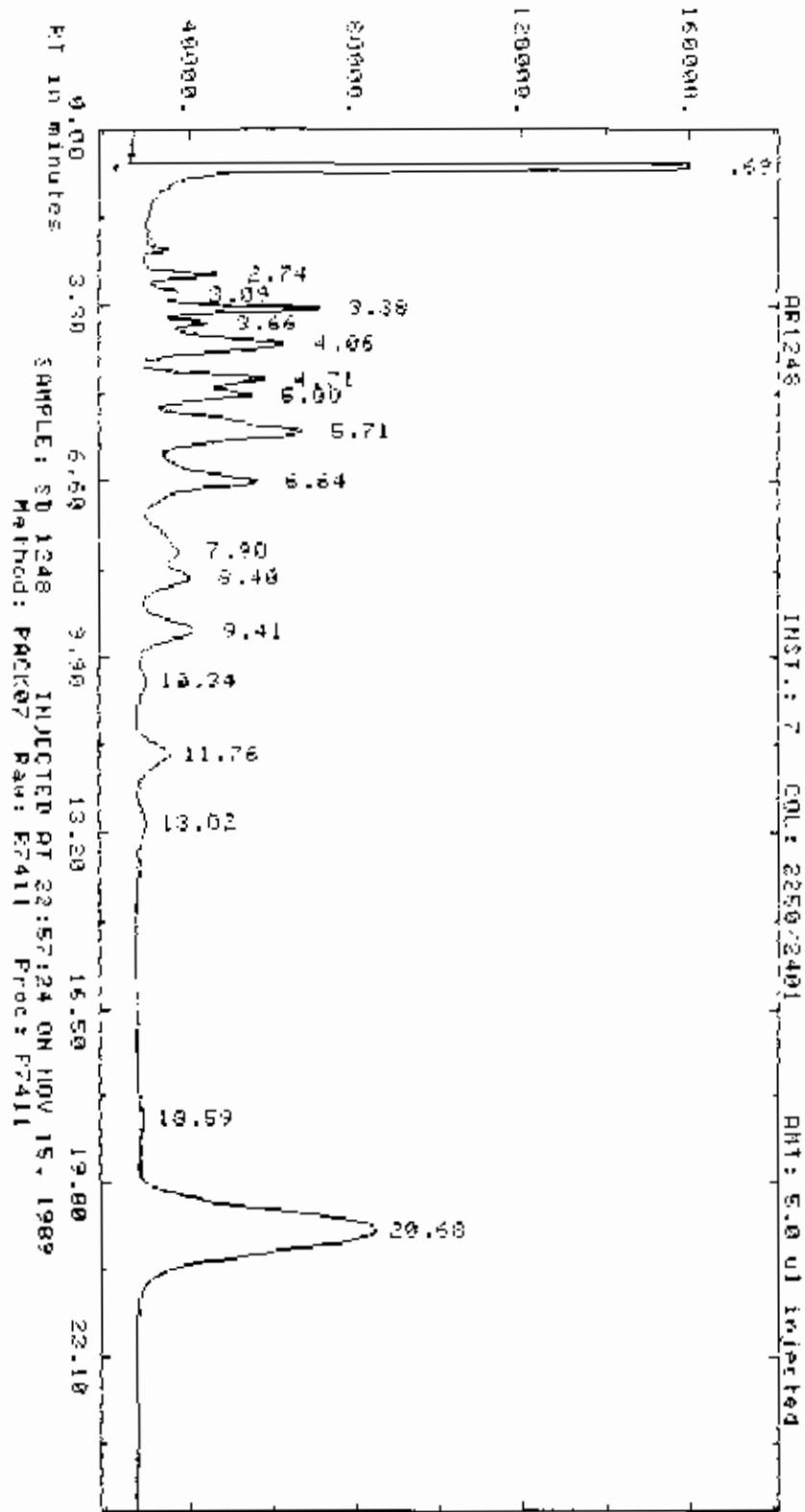
Total Area = 5389599. Total AREA % = 1558584.000
 Processed data file: P7409 Raw data File: R7409



Report: 13767.00 Channel: 7 AR1240
 Sample: SD 1242 Injected at 22:29 06 On NOV 15, 1997
 ZERO Method: PACK07 Seq: SEQ74 Subseq/Samp: 1/10 SII: 10
 Sl-Width MU/Min Delay Min-Cr Lunch
 .500 .300 0.00 20000 auto
 Sep-Link Det ID-Lvl Ref-RTW XRTW ZD1-F Iso
 00 0.00 0 30 5.0 100.00 NO
 Actual run time 26 125 minutes

RT	ITM	Factor	Area	AREA %	Name
0.69	0.00	.10000E+01	3334802	57.400	BB
0.92	0.00	.10000E+01	70148	1.202	BB
3.75	0.00	.10000E+01	89422	1.537	BB
3.13	0.00	.10000E+01	28638	.493	BB
3.37	0.00	.10000E+01	161202	2.775	BB
3.66	0.00	.10000E+01	40794	.702	BB
4.06	0.00	.10000E+01	20494	.353	BB
4.72	0.00	.10000E+01	43197	.744	BB
5.01	0.00	.10000E+01	36915	.635	BB
5.72	0.00	.10000E+01	184835	3.181	BB
6.64	0.00	.10000E+01	114129	1.964	BB
9.40	0.00	.10000E+01	34993	.602	BB
11.76	0.00	.10000E+01	24754	.426	BB
18.57	0.00	.10000E+01	24057	.414	BB
20.67	0.00	.10000E+01	1601352	27.583	BB

Total Area = 5809733. Total AREA % = 1601352.000
 Processed data file: P7410 Raw data file: R7410



Report: 13788.00 Channel: 7 AR1218
 Sample: SD 1243 Injected at 22 57 24 ON NOV 15, 1969
 ZERO Method: PACK07 Seq: 50074 Subsq/Samp: 1/11 BT: 11
 Sl-Width MU/Min Delay Min-Ac Bunch
 300 .300 0 00 20000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW SRTW %Dist-f Leg
 00 0 00 0 30 5 0 100.00 NE
 Actual run time: 26 008 minutes
 Ended not on baseline

RT	ITN	Factor	Area	AREA %	Name
2.69	0.00	100000E+01	3819029	33.135	BB
2.74	0.00	100000E+01	54589	.878	BB
3.09	0.00	100000E+01	20987	.272	BB
3.38	0.00	100000E+01	155100	2.130	BB
3.66	0.00	100000E+01	27226	.407	BB
4.06	0.00	100000E+01	242913	3.380	BB
4.71	0.00	100000E+01	92477	1.287	BB
5.00	0.00	100000E+01	76000	1.057	BB
5.71	0.00	100000E+01	104174	1.423	BB
6.64	0.00	100000E+01	250543	3.527	BB
7.90	0.00	100000E+01	52850	.735	BB
8.40	0.00	100000E+01	61032	.849	BB
9.41	0.00	100000E+01	140031	2.060	BB
10.34	0.00	100000E+01	22351	.311	BB
11.76	0.00	100000E+01	112086	1.571	BB
13.02	0.00	100000E+01	24949	.347	BB
13.59	0.00	100000E+01	24713	.344	BB
20.60	0.00	100000E+01	1579578	21.977	BB

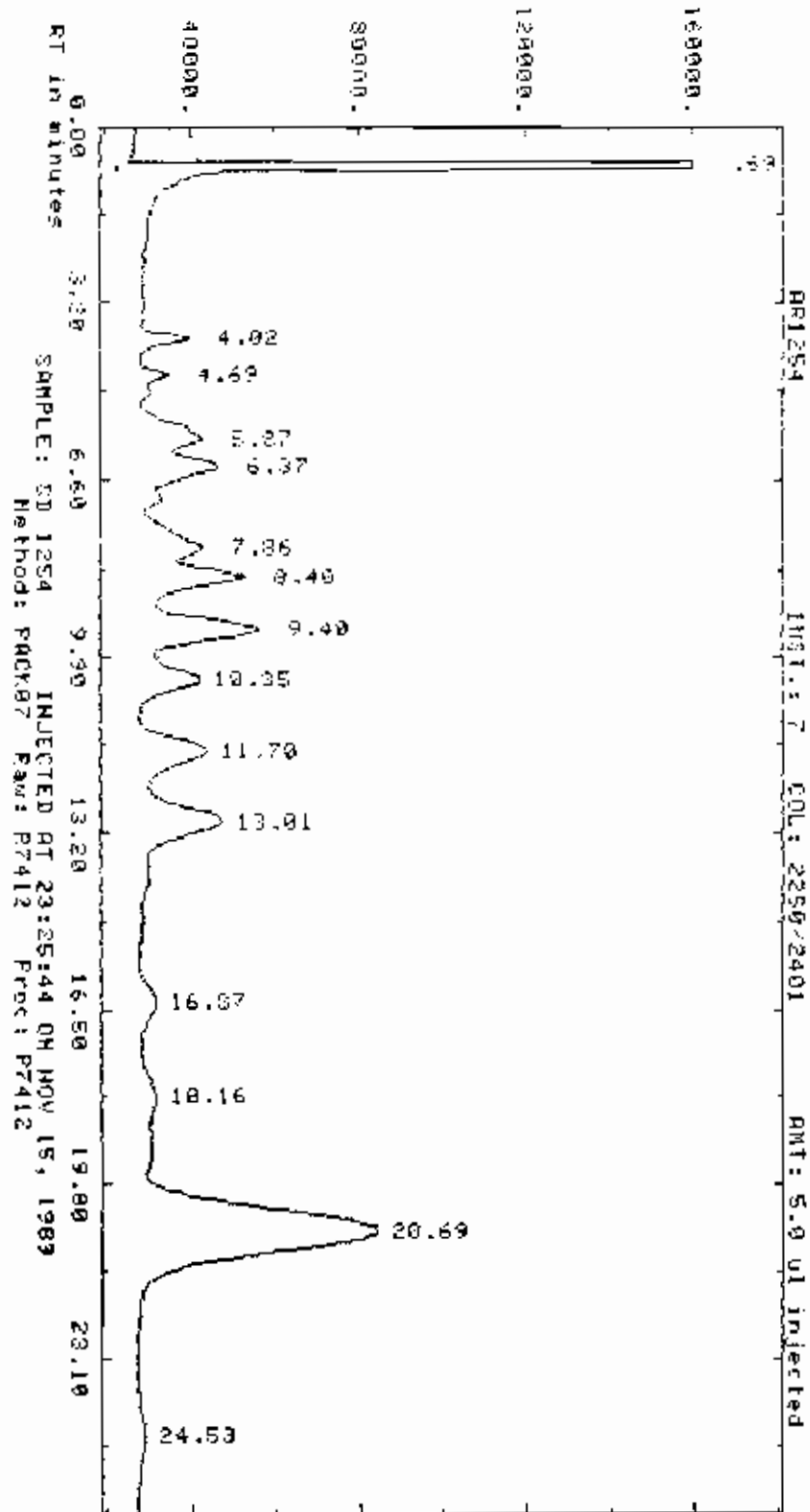
Total Area = 7187391.

Total AREA % = 1579578.000

Processed data file: P7411

Raw data file: R7411

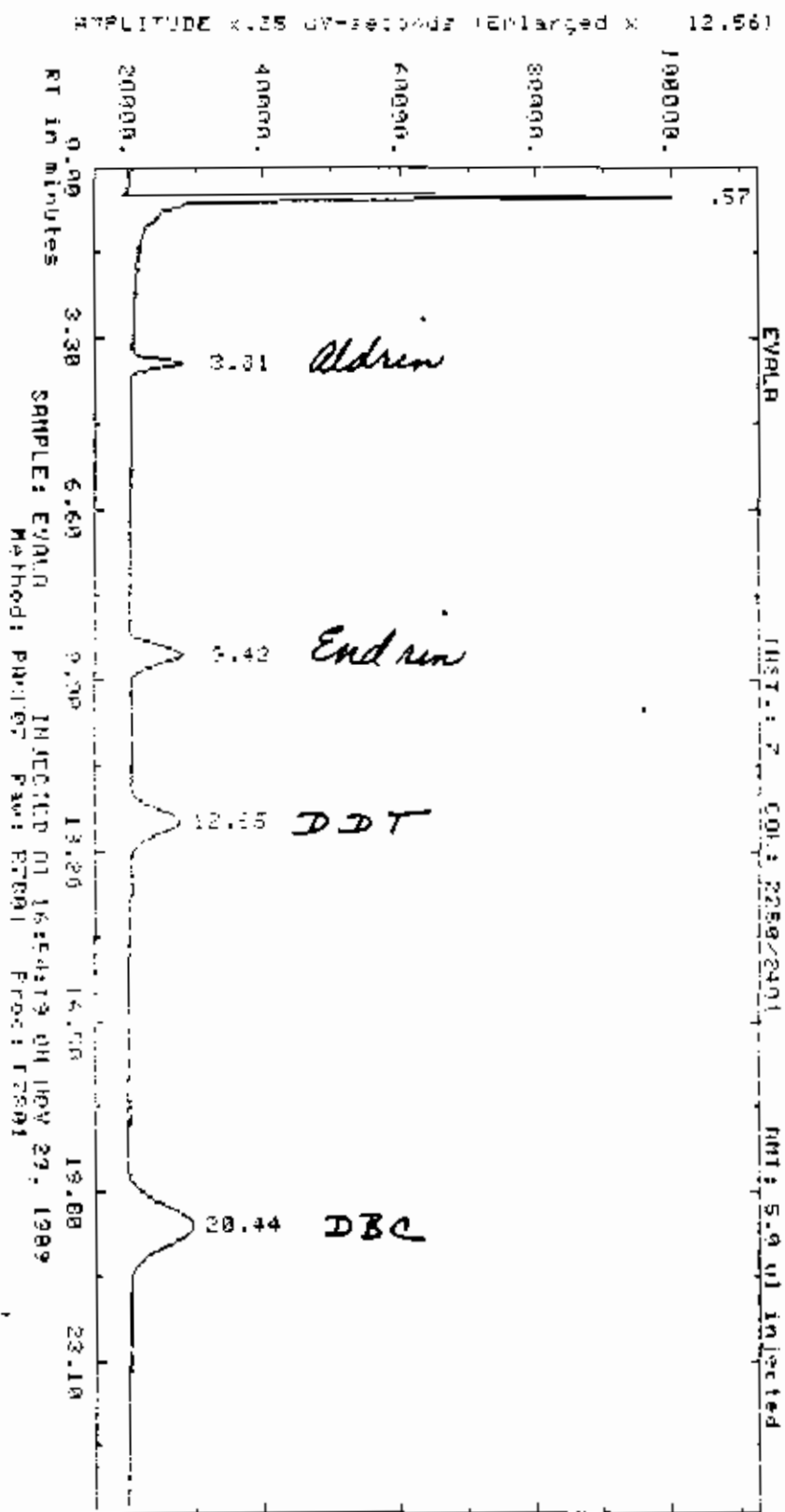
AMPLITUDE 0.25 27-seconds Enlarged 15.32



Report: 13789 00 Channel: 7 AR1254
 Sample: SD 1254 Injected at 25.25 14 DN NOV US, 1989
 ZERO Method: P4CK02 Seq: 50024 Subseq/Samp: 1/12 Bci: 10
 Sl-Width MV/Min Delay Min-Ac Peak
 500 1300 0 00 20000 Data
 Sup-Usk DvT ID-Lvl Ref-RTW ZRTW XDI-10 Iso
 05 0 00 0 30 5 5 100.00 NS
 Actual run time: 26.003 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
3.69	0.00	1.0000E+01	5473300.	51.817	BS
4.02	0.00	1.0000E+01	69827.	1.043	BB
4.69	0.00	1.0000E+01	28773.	1.429	BB
5.87	0.00	1.0000E+01	165513.	1.574	BB
6.37	0.00	1.0000E+01	121126.	1.1607	BB
7.96	0.00	1.0000E+01	83354.	1.244	BB
8.40	0.00	1.0000E+01	167919.	2.105	BB
9.40	0.00	1.0000E+01	281408.	4.198	BB
10.35	0.00	1.0000E+01	156338.	2.332	BB
11.70	0.00	1.0000E+01	229987.	3.431	BB
13.01	0.00	1.0000E+01	239104.	4.313	BB
16.37	0.00	1.0000E+01	75486.	1.126	BB
18.16	0.00	1.0000E+01	35820.	.534	BB
20.69	0.00	1.0000E+01	1534410.	22.892	BB
24.93	0.00	1.0000E+01	50528.	.754	BB

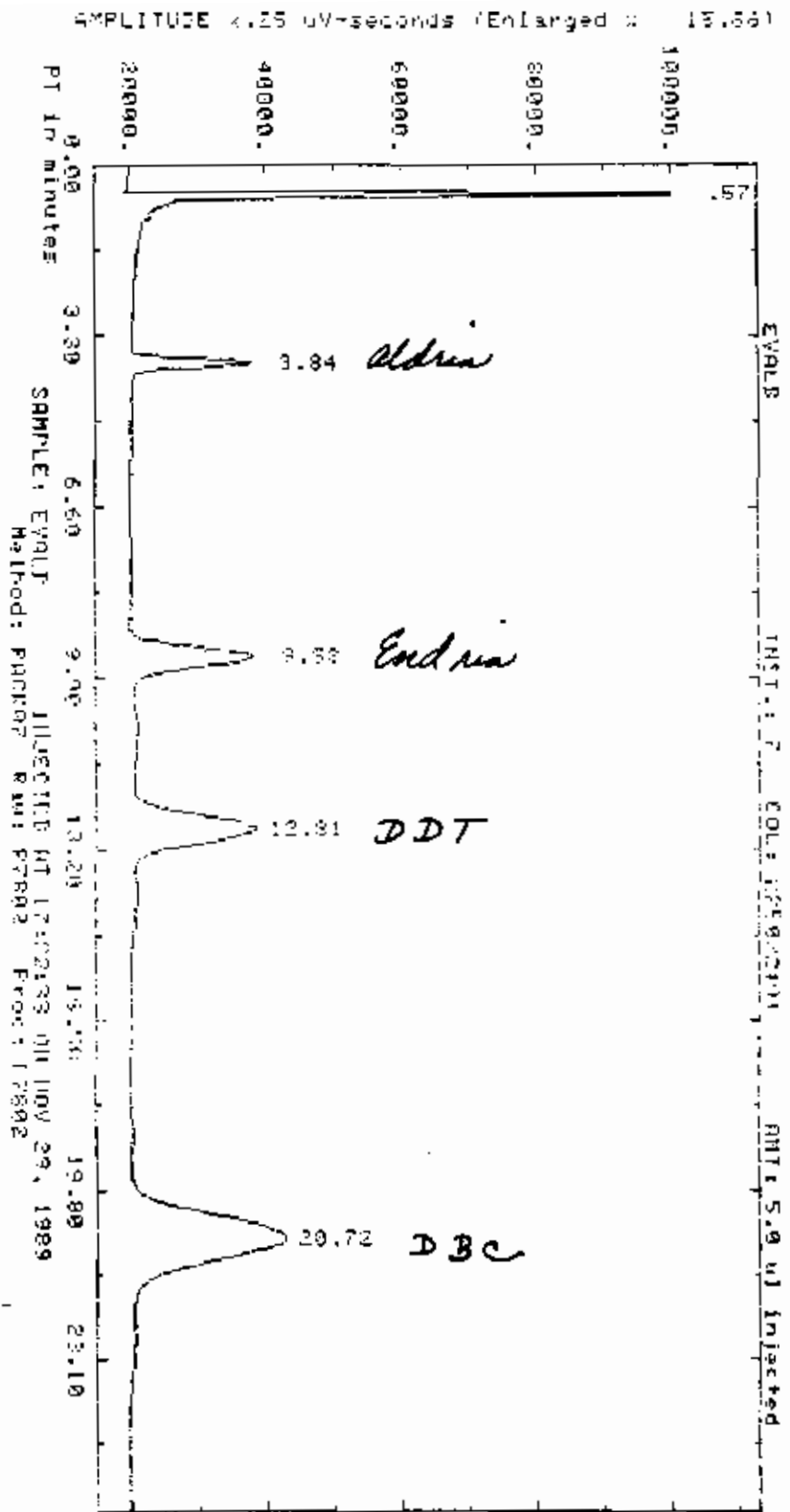
Total Area = 6702958. Total AREA % = 50528.500
 Processed data file: P7412 Raw data file: R7412



Report: 14036.00 Channel: 7 EVALA
 Sample: EVALA Injected at 16:54:19 ON NOV 29, 1989
 ZERO Method: PACK07 Seq: SEQ78 Subseq/Samp: 1/1 G1: 1
 Sl-width MU/Min Delay Min-Ap Runch
 .500 .300 0.00 20000 Auto
 Sup-Link DvT ID-Lvl Ref-RTW %RTW X01-? Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 25.000 minutes

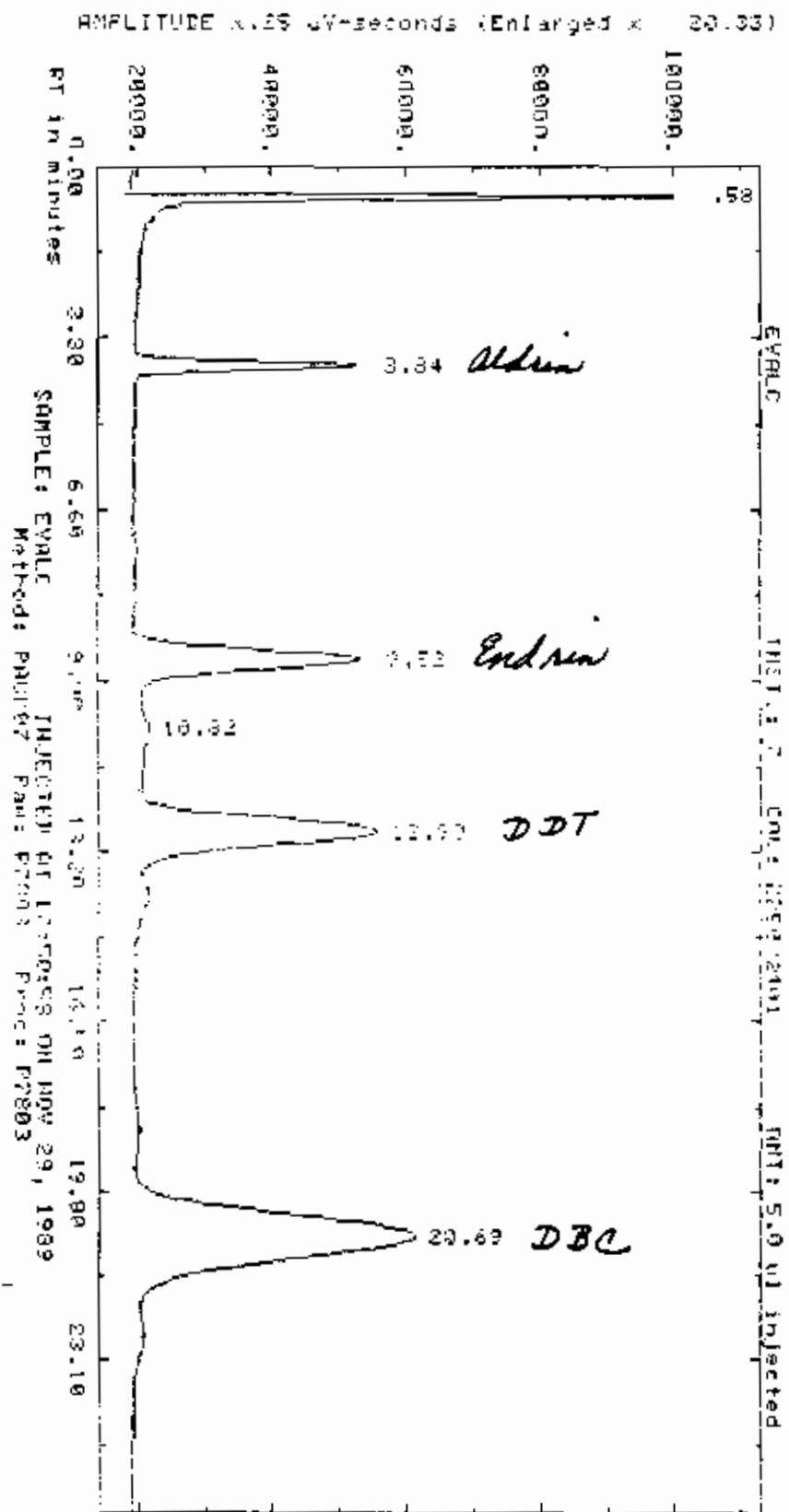
RT	ITH	Factor	Area	AREA %	Name
.57	0.00	.10000E+01	1147491.	69.146	SS
3.81	0.00	.10000E+01	39431.	2.372	FR
9.42	0.00	.10000E+01	94383.	5.874	FR
12.65	0.00	.10000E+01	41728.9	2.595	FR
20.44	0.00	.10000E+01	26157.9	16.253	SS

Total Area = 1662414 Total AREA % = 100.0000
 Processed data file: P7001 Run time = 16.17801



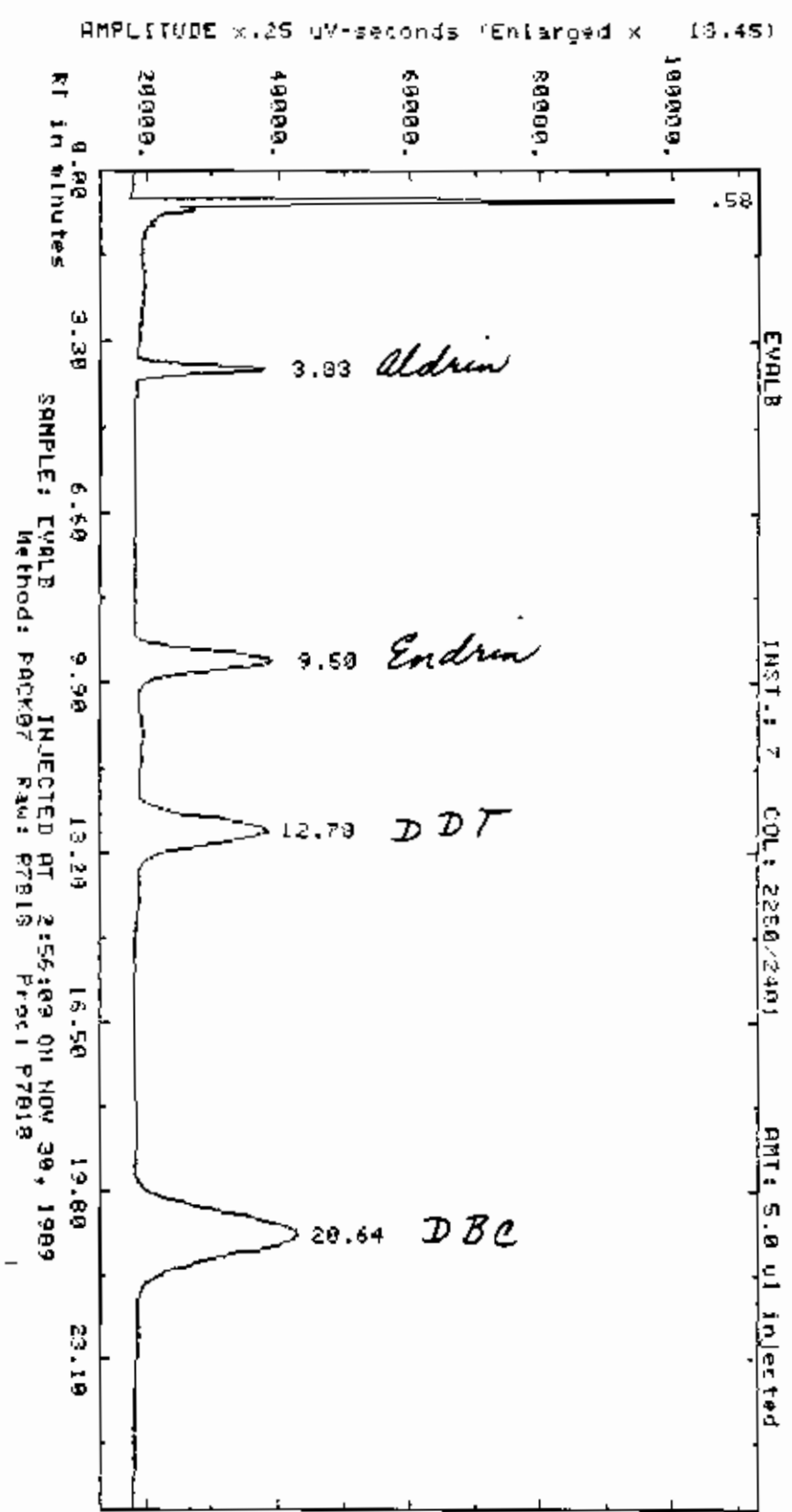
Report: 14037.00 Channel: 7 EUALB
 Sample: EUALB Injected at 17:22:38 ON NOV 29, 1989
 ZERO Method: PACK07 Seq: SEQ78 Subseq/Samp: 1/ 2 Rtl: 2
 Sl-width MU/Min Delay Min-Ar Runch
 .500 .300 0.00 20000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW ZDil-F Iso
 NO 0.00 0 30 5.0 100.00 NO
 Actual run time: 26.008 minutes

RT	ITM	Factor	Area	AREA %	Name
.57	0.00	.10000E+01	1498859.85	53.759	
3.84	0.00	.10000E+01	98045.38	3.517	
9.53	0.00	.10000E+01	225789.38	8.089	
12.81	0.00	.10000E+01	307035.60	11.232	
20.72	0.00	.10000E+01	592707.88	21.573	
Total Area =		2788154.	Total Area % = 100.0000000		
Processed data file: P7802			Raw data file: 14037		



Report: 14038.00 Channel: 7 EVALC
 Sample: EVALC Injected at 17:50:53 ON NOV 29, 1989
 ZERO Method: PACK07 Seq: SE078 Subsq/Samp: 1/3 Btl: 3
 Sl-width MV/Min Delay Nip-gr Bunch
 .500 .300 0.00 20000 Auto
 Sup-Link Det TD-Lvl Ref-RTW CRTW Xdil-f Iso
 NO 0.00 0 1.30 5.0 100.00 NO
 Actual run time: 26.017 minutes

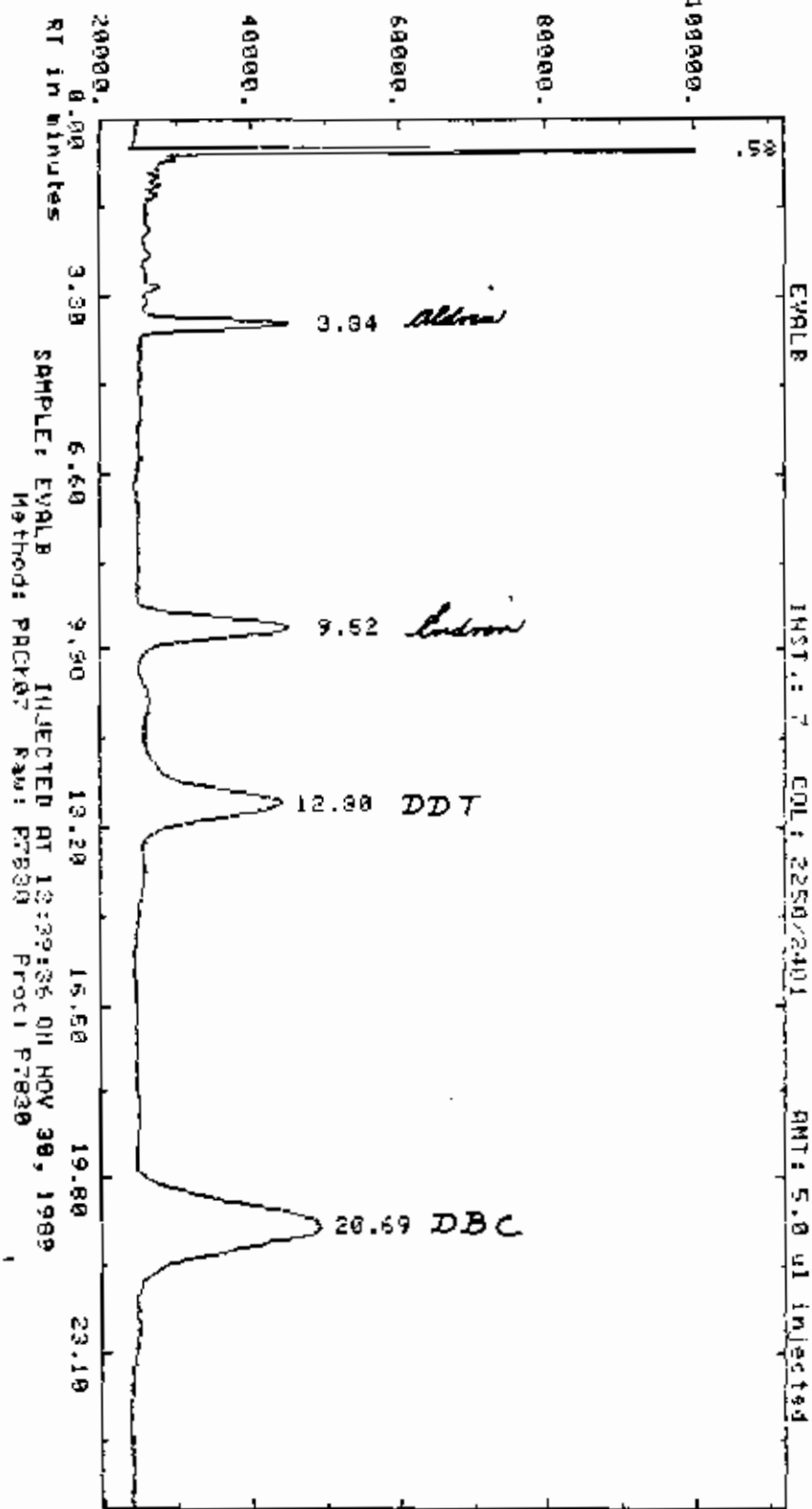
RT	ITH	Factor	Area	AREA %	Name
.53	0.00	.10000E+01	1999573.	44.468	BS
3.84	0.00	.10000E+01	166931.	4.176	BB
9.52	0.00	.10000E+01	434039.	9.893	BB
10.82	0.00	.10000E+01	23639.	.553	BB
12.80	0.00	.10000E+01	812833.	13.577	BB
20.69	0.00	.10000E+01	1254225.	27.419	BB
Total Area =			4475412.	Total AREA % = 1283725.000	
Processed data File: P7R03			Raw data File: #2603		



Report: 14054 00 Channel: 7 EVALB
 Sample: EVALB Injected at 2:56:09 ON NOV 30, 1989
 ZERO Method: PACK07 Seq: SEQ78 Subsq/Samp: 1/18 Btl: 18
 Sl-width MU/Min Delay Min-Ar Sunch
 .500 .300 0.00 20000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.017 minutes

RT	ITH	Factor	Area	AREA %	Name
5.8	0.00	.10000E+01	1727818. BB	55.123	
3.83	0.00	.10000E+01	105588. BB	3.368	
9.50	0.00	.10000E+01	255788. BB	8.157	
12.78	0.00	.10000E+01	333426. BB	10.637	
20.64	0.00	.10000E+01	711691. BB	22.705	
Total Area = 3134492.			Total AREA % = 711690.750		
Processed data file: P7818			Raw data file: R7818		

AMPLITUDE x .25 uV-seconds (Enlarged x 17.71)



Report: 11066 00 Channel: 7 EVALB

Sample: EVALB Injected at 12:39:36 ON NOV 30, 1989

ZERO Method: PACK07 Seq: 9E978 Subsq/Samp: 1/30 Btl: 30

Sl-width MU/Min Delay Min-Ar Bunch
.500 .300 0.00 20000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.008 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
5.59	0.00	.10000E+01	1615316. BS	53.067	
3.34	0.00	.10000E+01	108660. BB	3.520	
7.52	0.00	.10000E+01	261420. BB	8.588	
12.81	0.00	.10000E+01	347471. BB	11.415	
20.69	0.00	.10000E+01	711039. BB	23.057	

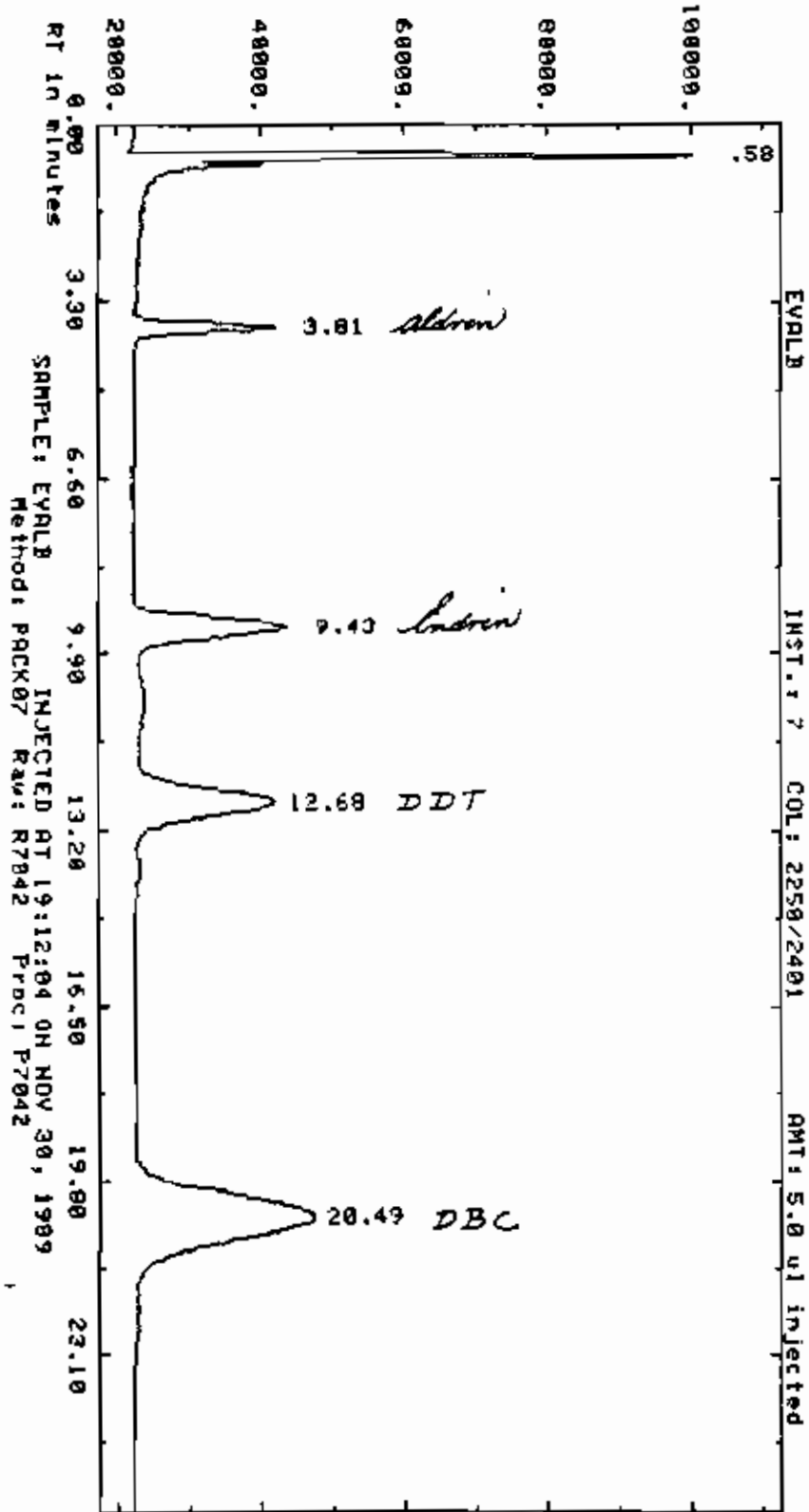
Total Area = 3043925.

Total AREA % = 711038.750

Processed data file: P7830

Raw data file: R7830

AMPLITUDE x.25 uV-seconds (Enlarged x 21.31)



Report: 14078.00 Channel: 7 EVALB

Sample: EVALB Injected at 19:12:04 ON NOV 30, 1989

ZERO Method: PACK07 Seq: SEQ78 Subsq/Samp: 1/42 Btl: 42

Sl-width MV/Min Delay Min-Ar Bunch
.500 .300 0.00 20000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW XRTW XD11-F Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.008 minutes

Ended not on baseline

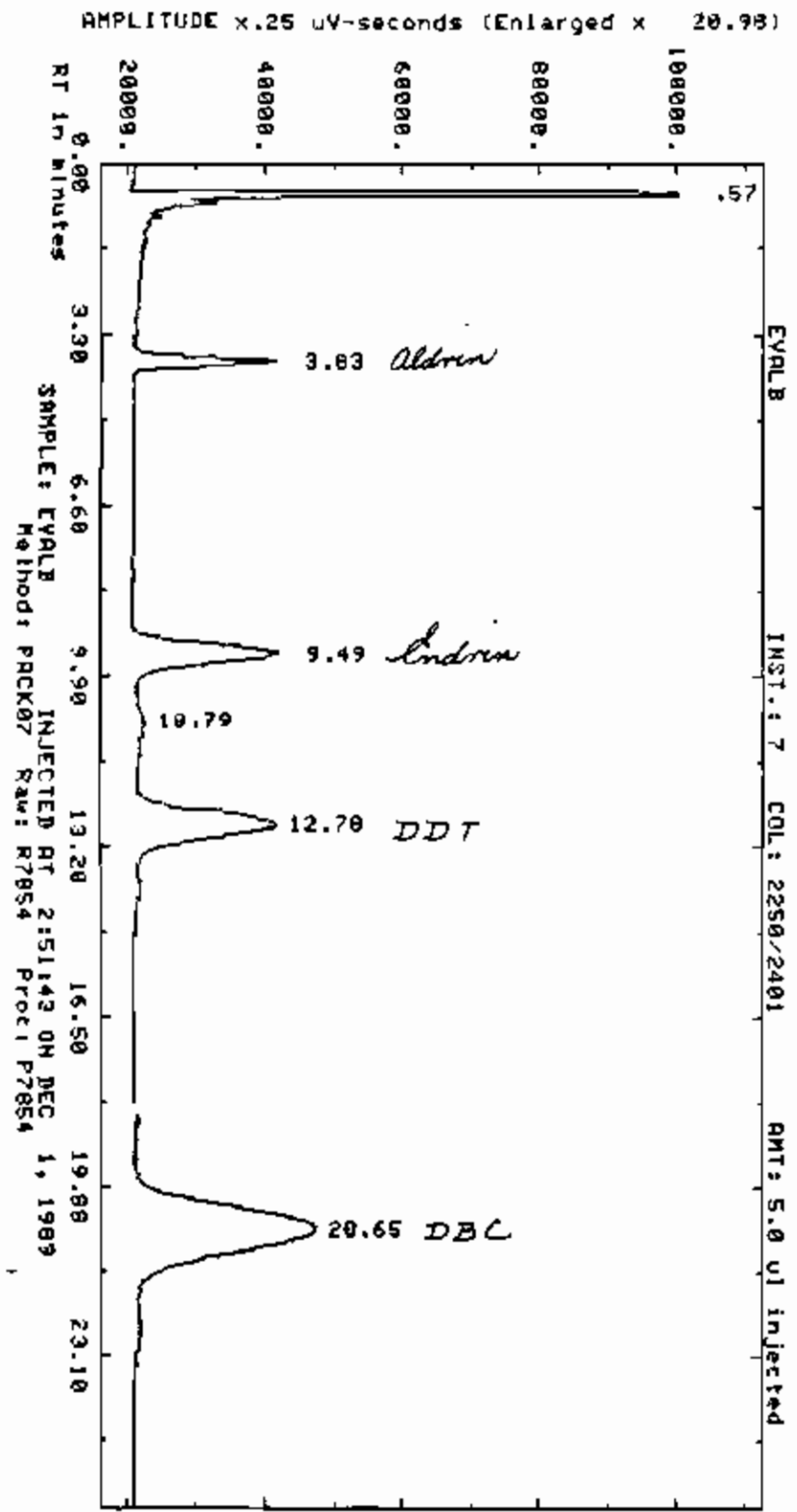
RT	ITM	Factor	Area	AREA %	Name
.58	0.00	.10000E+01	2082805.	59.707	BS
3.81	0.00	.10000E+01	106159.	3.043	BB
9.43	0.00	.10000E+01	263971.	7.567	BB
12.68	0.00	.10000E+01	320564.	9.189	BB
20.49	0.00	.10000E+01	714875.	20.493	BB

Total Area = 3488378.

Total AREA % = 714878.500

Processed data file: P7842

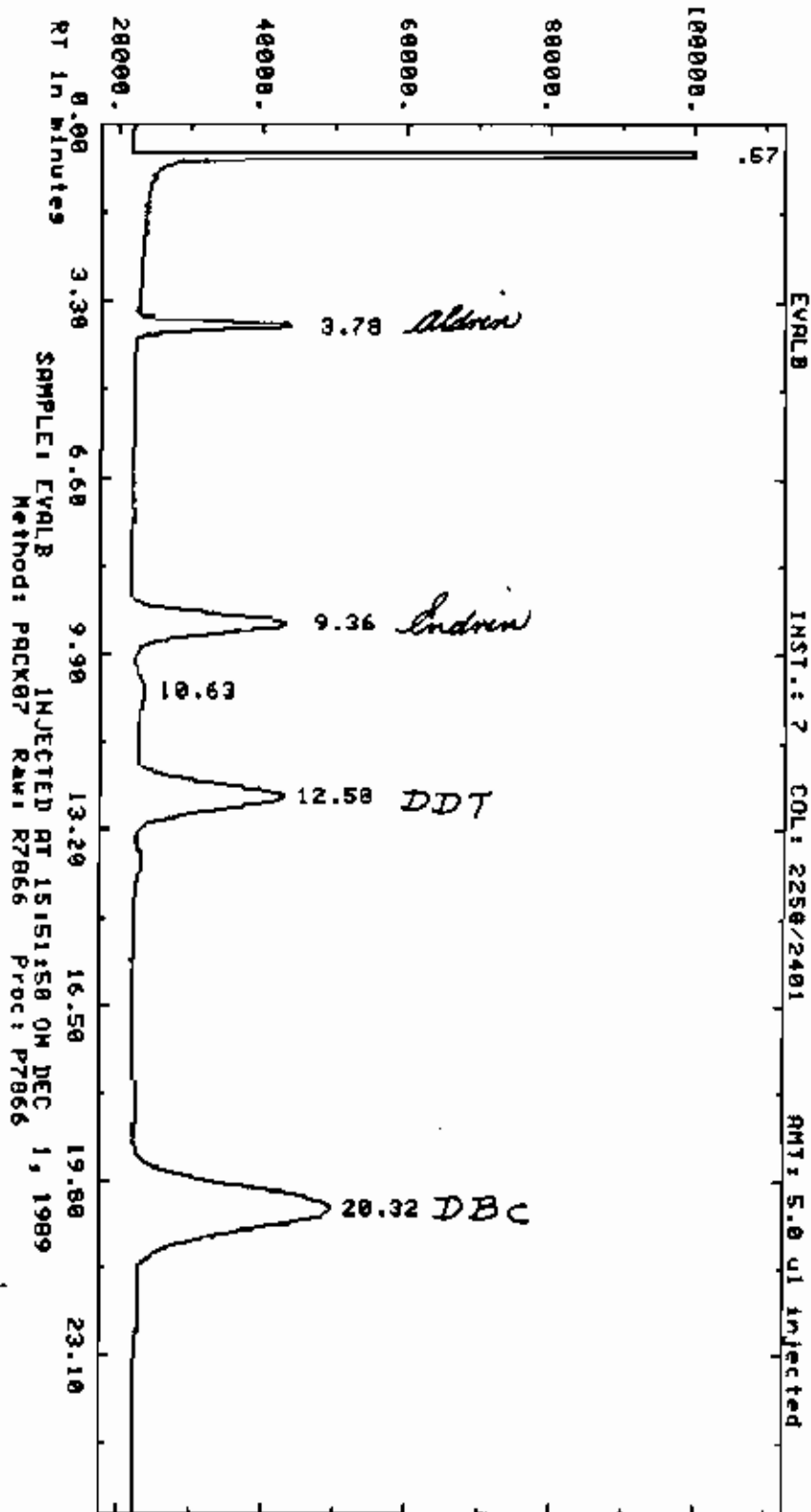
Raw data file: R7842



Report: 14090.00 Channel: 7 EVALB
 Sample: EVALB Injected at 2:51:43 ON DEC 1, 1989
 ZERO Method: PACK07 Seq: SEQ7B Subsq/Samp: 1/54 Btl: 54
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 20000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.017 minutes

RT	ITH	Factor	Area	AREA %	Name
.57	0.00	.10000E+01	2191595.	59.458	BS
3.83	0.00	.10000E+01	113622.	3.083	BB
9.49	0.00	.10000E+01	265046.	7.191	BB
10.79	0.00	.10000E+01	20218.	.549	BB
12.78	0.00	.10000E+01	342035.	9.279	BB
20.65	0.00	.10000E+01	753464.	20.441	BB
Total Area = 3685981.			Total AREA % = 753464.250		
Processed data file: P7854			Raw data file: R7854		

AMPLITUDE x.25 uV-seconds (Enlarged x 18.36)

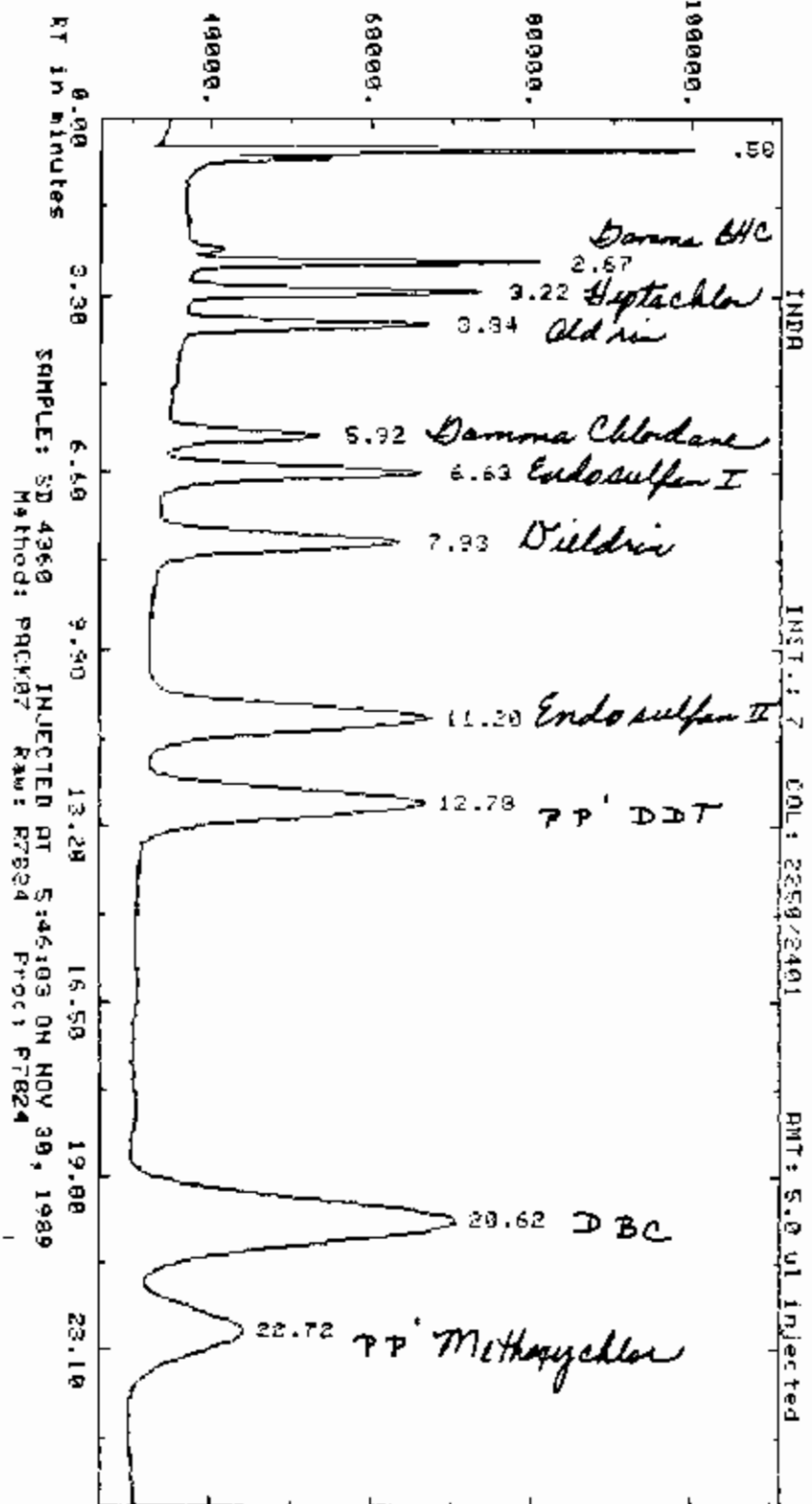


Report: 14107.00 Channel: 7 EVALB
 Sample: EVALB Injected at 15:51:50 ON DEC 1, 1989
 ZERO Method: PACK07 Seq: SEQ7B Subsq/Samp: 1/66 Btl: 66
 Sl-width MV/Min Delay Nin-Ar Bunch
 .500 .300 0.00 20000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW XDi1-F Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.017 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.57	0.00	.10000E+01	1897811.	55.823	BB
3.78	0.00	.10000E+01	114945.	3.381	BB
9.36	0.00	.10000E+01	261470.	7.691	BB
10.63	0.00	.10000E+01	23485.	.691	BB
12.58	0.00	.10000E+01	333332.	9.805	BB
20.32	0.00	.10000E+01	768645.	22.609	BB
Total Area = 3399689.			Total AREA % = 768644.750		
Processed data file: P7866			Raw data file: R7866		

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FOR
SECTION
H**

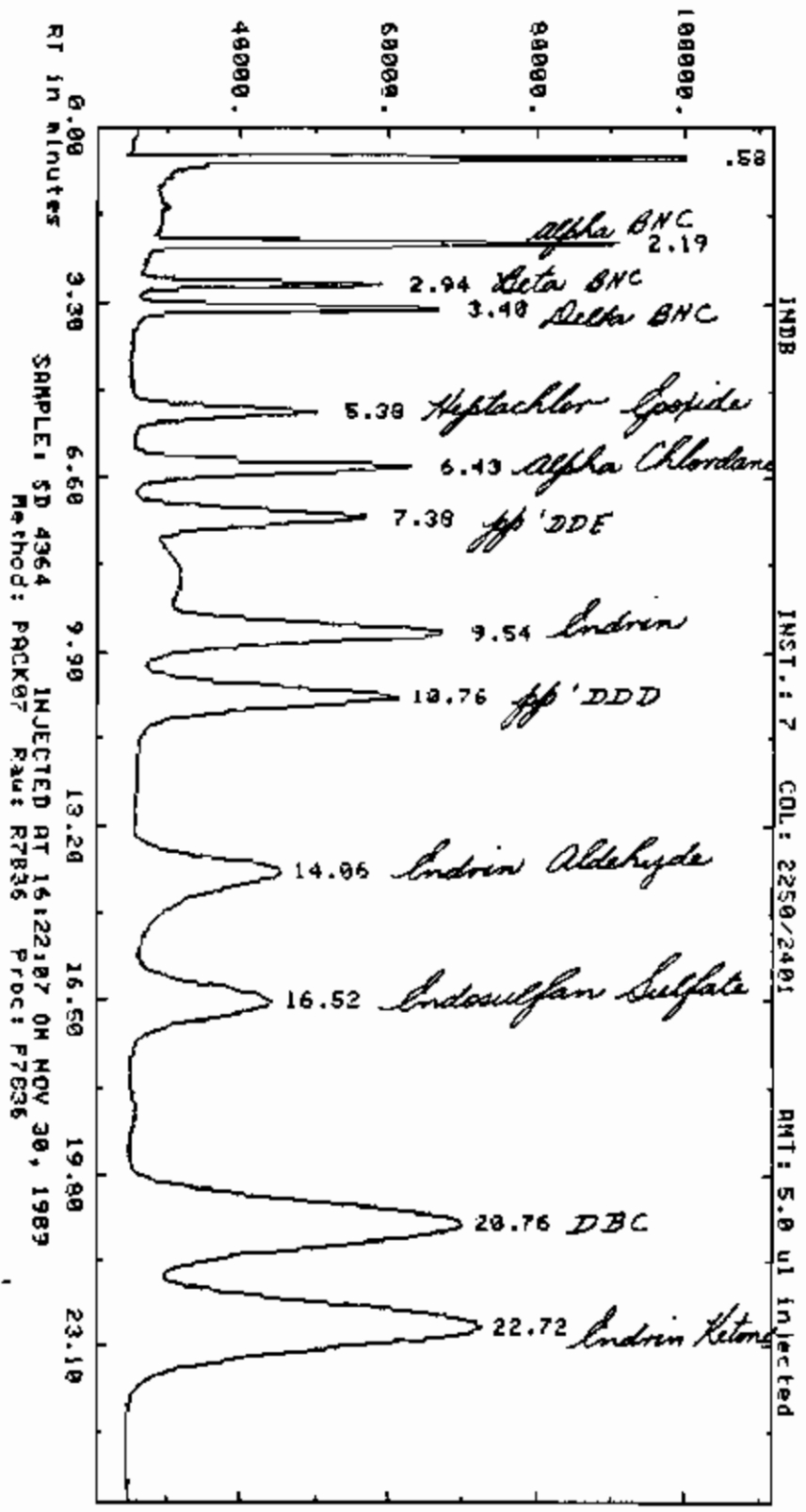
AMPLITUDE x.25 uV-seconds (Enlarged x 21.69)



Report: 14060.00 Channel: 7 INDA
 Sample: SD 4360 Injected at 5:46:03 ON NOV 30, 1989
 ZERO Method: PACK07 Seq: SEQ78 Subsq/Samp: 1/24 Btl: 24
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 20000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW ZRTW %Dil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.017 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.58	0.00	.10000E+01	1848569.	31.944	BB
2.67	0.00	.10000E+01	166931.	2.885	BB
3.22	0.00	.10000E+01	172443.	3.980	BB
4.04	0.00	.10000E+01	166069.	2.914	BB
5.92	0.00	.10000E+01	148092.	2.559	BB
6.63	0.00	.10000E+01	286894.	4.959	BB
7.93	0.00	.10000E+01	332114.	5.739	BB
11.20	0.00	.10000E+01	561052.	9.675	BB
12.78	0.00	.10000E+01	597531.	10.326	BB
20.62	0.00	.10000E+01	1140051.	19.701	BB
22.72	0.00	.10000E+01	365075.	6.309	BB
Total Area =			5786834.	Total AREA % =	365075.500
Processed data file: P7824				Raw data file: R7824	

AMPLITUDE x.25 uV-seconds (Enlarged x 25.45)

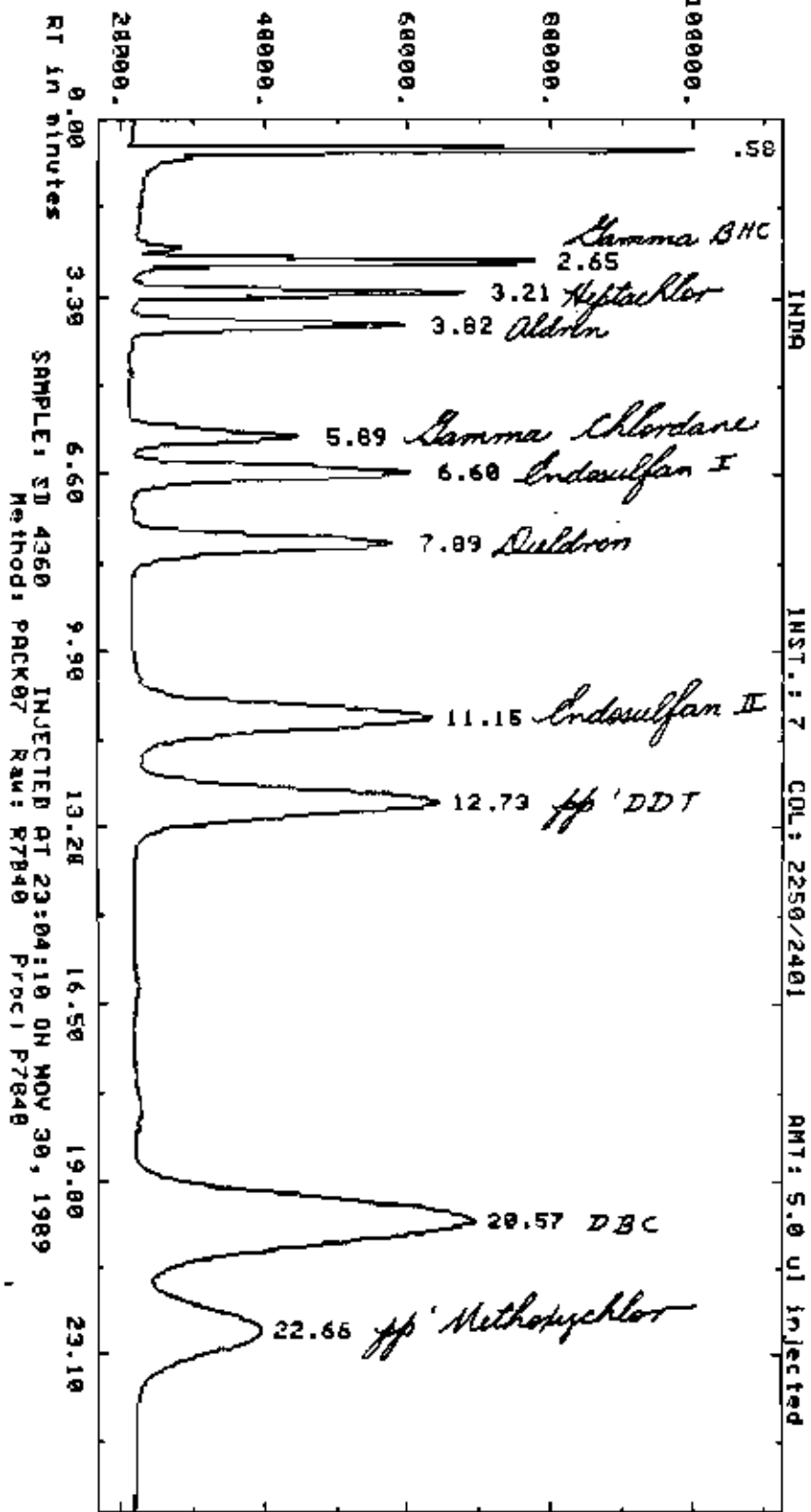


Report: 14072.00 Channel: 7 INDB
 Sample: SD 4364 Injected at 16:22:07 ON NOV 30, 1989
 ZERO Method: PACK07 Seq: SEQ78 Subsq/Samp: 1/36 Rtl: 36
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 20000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-F Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.025 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.58	0.00	.10000E+01	2630669.	31.897	BB
2.19	0.00	.10000E+01	208711.	2.531	BB
2.94	0.00	.10000E+01	135410.	1.642	BB
3.40	0.00	.10000E+01	192339.	2.332	BB
5.38	0.00	.10000E+01	187087.	2.268	BB
6.43	0.00	.10000E+01	334481.	4.056	BB
7.38	0.00	.10000E+01	287596.	3.487	BB
9.54	0.00	.10000E+01	486321.	5.897	BB
10.76	0.00	.10000E+01	505326.	6.127	BB
14.06	0.00	.10000E+01	463176.	5.616	BB
16.52	0.00	.10000E+01	389399.	4.721	BB
20.76	0.00	.10000E+01	1171307.	14.202	BB
22.72	0.00	.10000E+01	1255624.	15.224	BB

Total Area = 9247448. Total AREA % = 1255624.000
 Processed data file: P7836 Raw data file: R7836

AMPLITUDE x.25 uV-seconds (Enlarged x 29.03)



Report: 14084.00 Channel: 7 INDA

Sample: SD 4360

Injected at 23:04:10 ON NOV 30, 1989

ZERO Method: PACK07

Seq: SEQ78

Subsq/Samp: 1/40

St1: 48

Sl-width HU/Min Delay Min-Ar Bunch
.500 .300 0.00 20000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

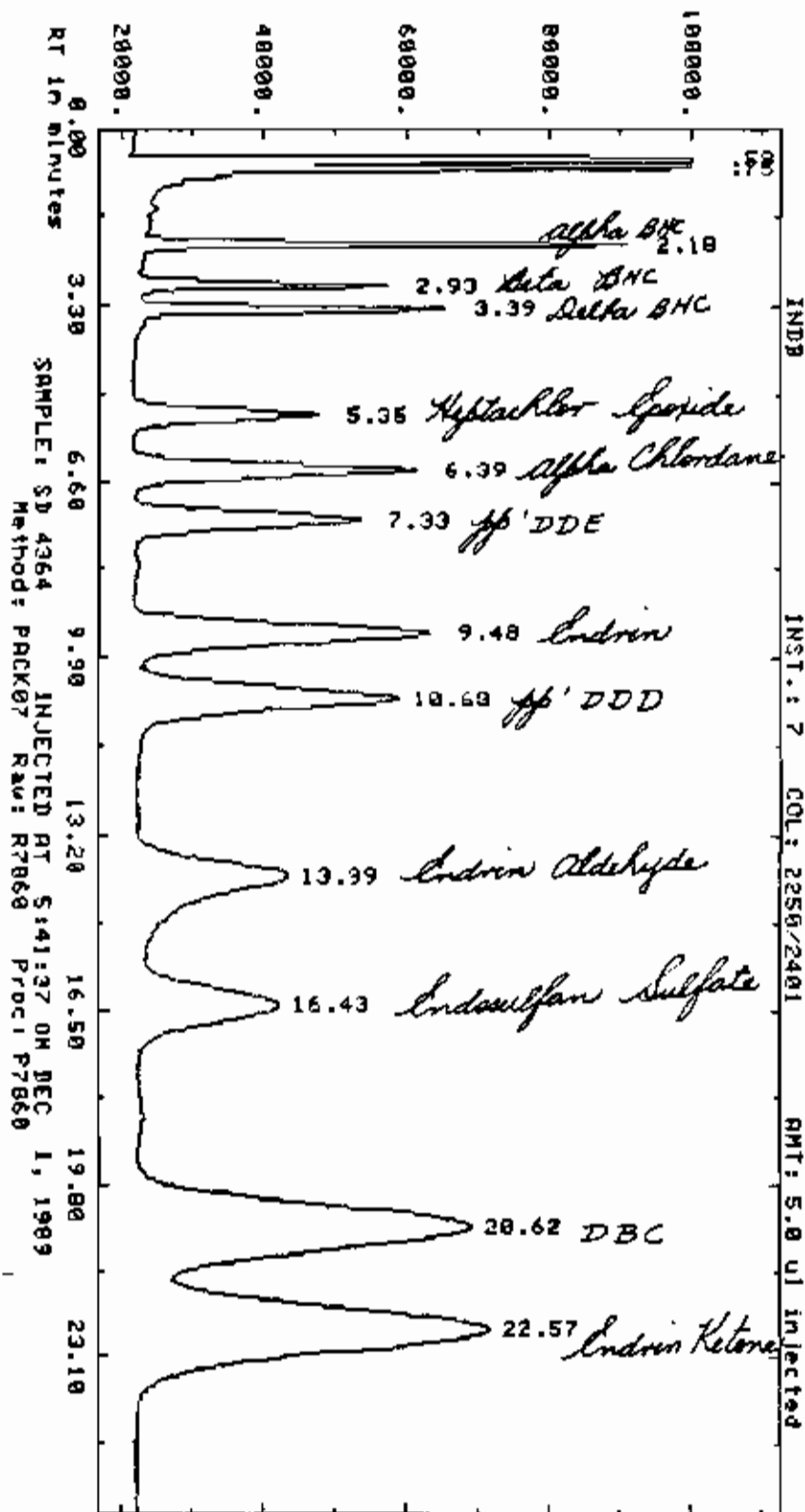
Actual run time: 26.017 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA X	Name
.58	0.00	.10000E+01	2968712.	38.820	BB
2.65	0.00	.10000E+01	206391.	2.699	BB
3.21	0.00	.10000E+01	214579.	2.906	BB
3.52	0.00	.10000E+01	200465.	2.726	BB
5.89	0.00	.10000E+01	181187.	2.369	BB
6.60	0.00	.10000E+01	350001.	4.577	BB
7.89	0.00	.10000E+01	396427.	5.184	BB
11.15	0.00	.10000E+01	658411.	8.610	BB
12.73	0.00	.10000E+01	719460.	9.408	BB
20.57	0.00	.10000E+01	1333345.	17.435	BB
22.66	0.00	.10000E+01	410381.	5.366	BB

Total Area = 7647362. Total AREA X = 410381.500
Processed data file: P7848 Raw data file: R7848

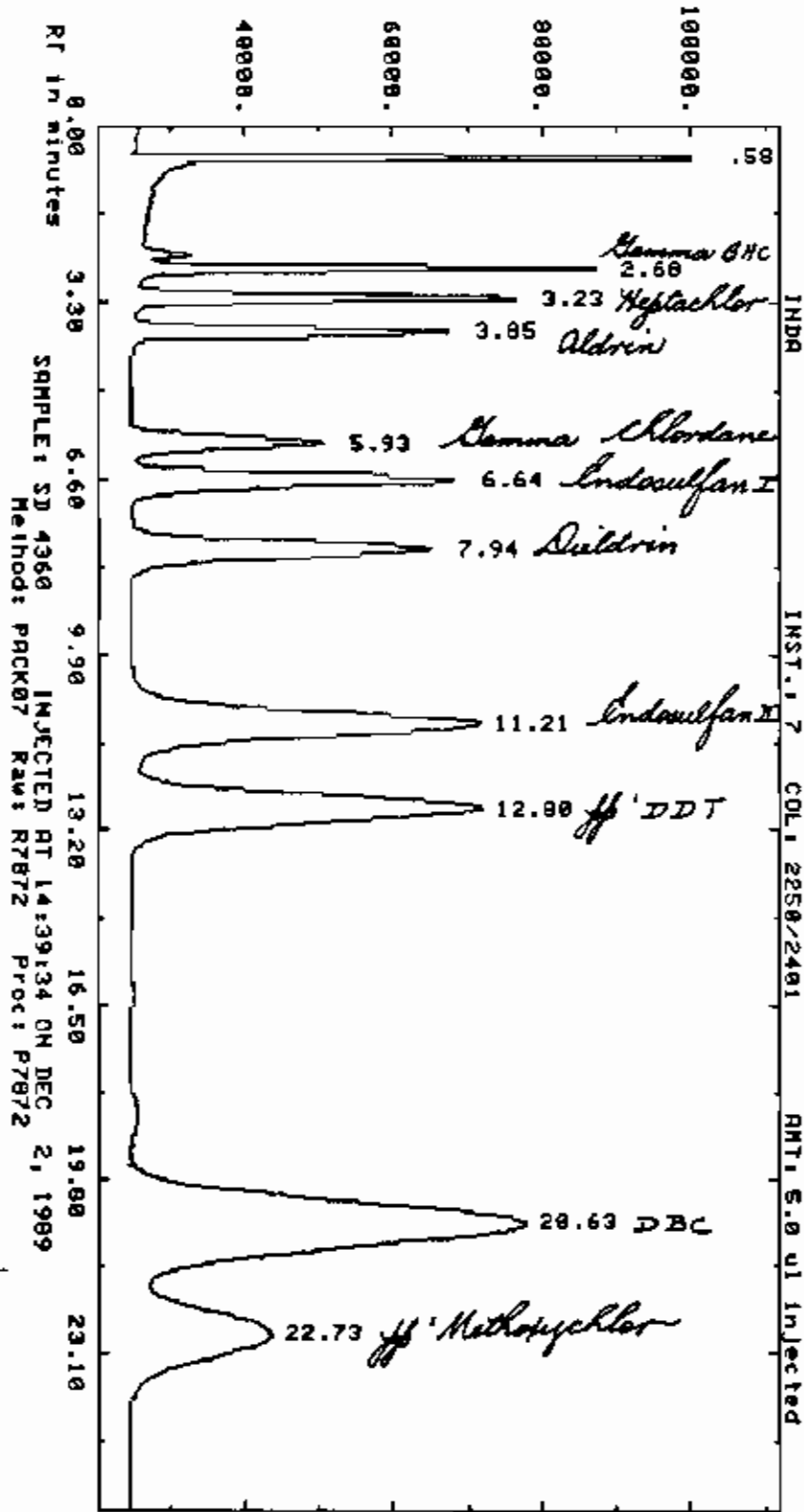
AMPLITUDE x.25 uV-seconds (Enlarged x 27.38)



Report: 14096.00 Channel: 7 INDB
 Sample: SD 4364 Injected at 5:41:37 ON DEC 1, 1989
 ZERO Method: PACK07 Seq: SEQ78 Subsq/Samp: 1/60 Btl: 50
 SI-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 20000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-f Iso
 NO 0.00 0 0.30 5.0 100.00 NO
 Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
5.58	0.00	.10000E+01	2907753.	33.001	BB
7.75	0.00	.10000E+01	25994.	0.295	BB
10.10	0.00	.10000E+01	222633.	2.527	BB
11.93	0.00	.10000E+01	142702.	1.620	BB
13.39	0.00	.10000E+01	207014.	2.349	BB
15.35	0.00	.10000E+01	193010.	2.191	BB
16.33	0.00	.10000E+01	351941.	3.994	BB
17.33	0.00	.10000E+01	315607.	3.582	BB
19.48	0.00	.10000E+01	523859.	5.945	BB
10.68	0.00	.10000E+01	536609.	6.090	BB
13.99	0.00	.10000E+01	480414.	5.452	BB
16.43	0.00	.10000E+01	409861.	4.652	BB
20.62	0.00	.10000E+01	1219472.	13.840	BB
22.57	0.00	.10000E+01	1274307.	14.462	BB
Total Area =			8811178.	Total AREA % =	1274307.000
Processed data file: P7860				Raw data file: R7860	

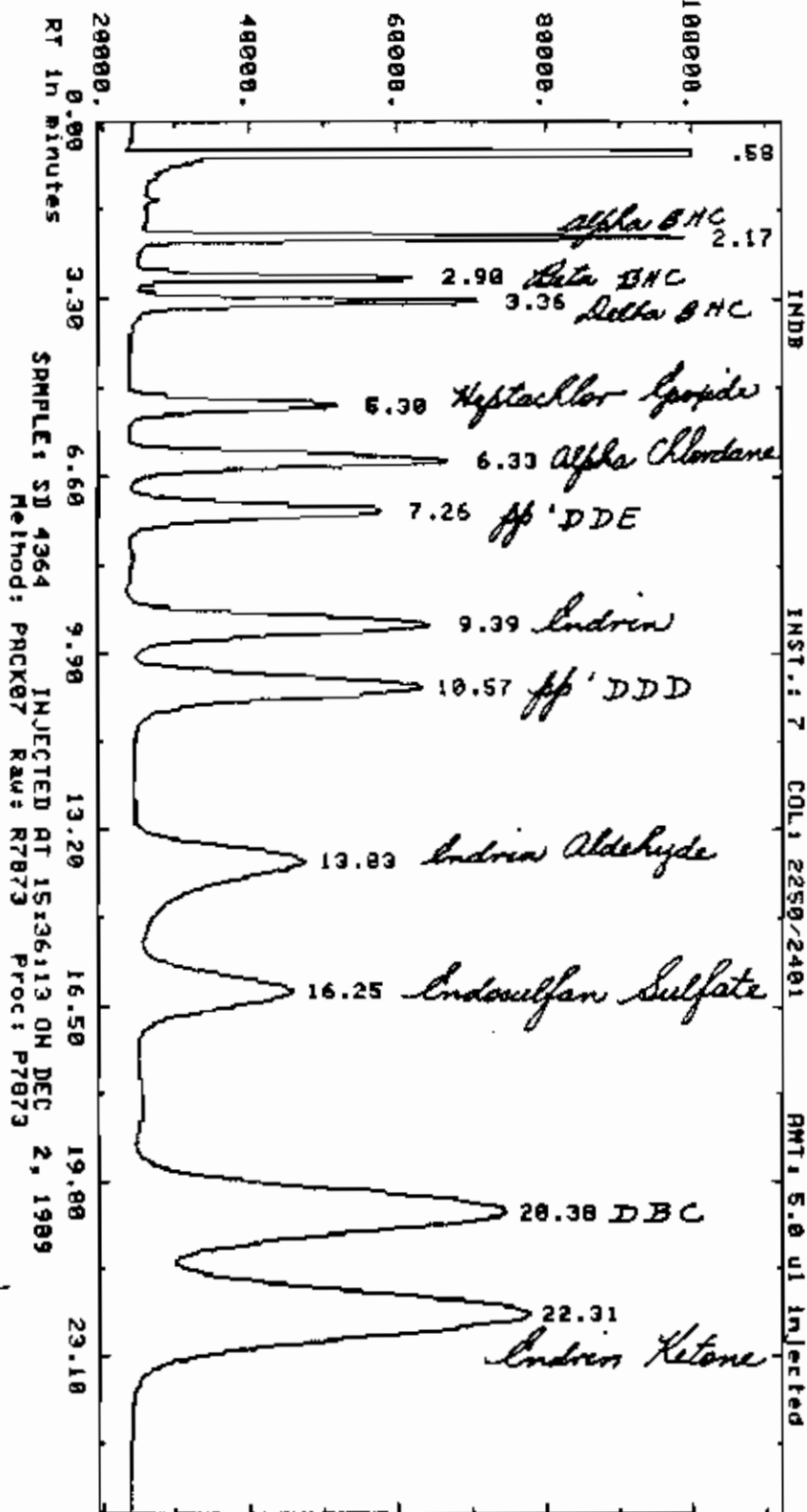
AMPLITUDE x.25 uV-seconds (Enlarged x 19.42)



Report: 14117.00 Channel: 7 INDA
 Sample: SD 4360 Injected at 14:39:34 ON DEC 2, 1989
 ZERO Method: PACK07 Seq: SEQ78 Subsq/Samp: 1/72 Btl: 72
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 20000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW ZRTW XDil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.017 minutes

RT	ITM	Factor	Area	AREA X	Name
.58	0.00	.10000E+01	2037213.	BS	28.007
2.68	0.00	.10000E+01	230680.	BB	3.171
3.23	0.00	.10000E+01	239504.	BB	3.293
3.85	0.00	.10000E+01	233581.	BB	3.211
5.93	0.00	.10000E+01	201728.	BB	2.773
6.64	0.00	.10000E+01	388238.	BB	5.337
7.94	0.00	.10000E+01	442434.	BB	6.083
11.21	0.00	.10000E+01	738628.	BB	10.155
12.88	0.00	.10000E+01	794953.	BB	10.929
20.63	0.00	.10000E+01	1494610.	BB	20.548
22.73	0.00	.10000E+01	472263.	BB	6.493
Total Area =			7273826.	Total AREA X = 472263.500	
Processed data file:			P7872	Raw data file: R7872	

AMPLITUDE x.25 uV-seconds (Enlarged x 30.00)



Report: 14119.11 Channel: 7 INDB
 Sample: SD 4364 Injected at 15:36:13 ON DEC 2, 1989
 ZERO Method: PACK07 Seq: SEQ78 Subsq/Samp: 1/74 Br1: 74
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 20000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-f Iso
 NO 0.00 0 0.30 5.0 100.00 NO
 Actual run time: 26.008 minutes

RT	ITH	Factor	Area	AREA X	Name
2.58	0.00	.10000E+01	3471582.	35.661	BB
2.17	0.00	.10000E+01	246097.	2.528	BB
2.90	0.00	.10000E+01	154494.	1.597	BB
3.36	0.00	.10000E+01	221418.	2.274	BB
5.30	0.00	.10000E+01	209833.	2.155	BB
6.33	0.00	.10000E+01	380545.	3.909	BB
7.26	0.00	.10000E+01	335386.	3.445	BB
9.39	0.00	.10000E+01	510111.	5.240	BB
10.57	0.00	.10000E+01	573338.	5.890	BB
13.83	0.00	.10000E+01	521265.	5.355	BB
16.25	0.00	.10000E+01	429607.	4.413	BB
20.38	0.00	.10000E+01	1290340.	13.255	BB
22.31	0.00	.10000E+01	1390843.	14.287	BB
Total Area =			9734860.	Total AREA X = 1390843.500	
Processed data file: P7873				Raw data file: R7873	

RESULTS OF MANUAL INTEGRATION FROM CPlot

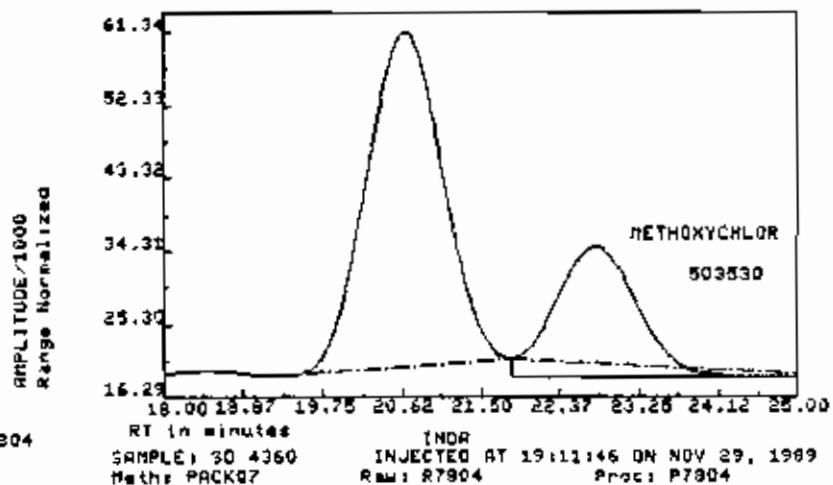
RAW DATA FILE: R7804

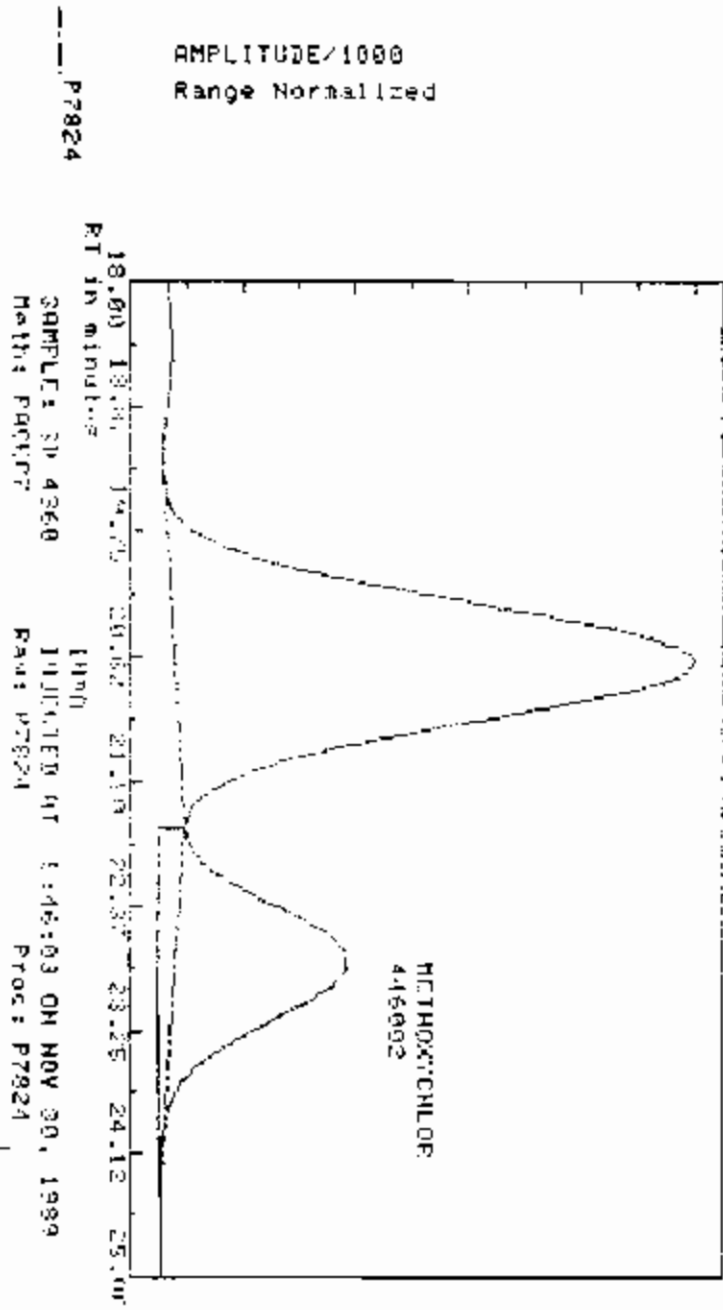
INJECTED AT: 19:11:46 ON NOV 29, 1989

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	21.84	24.17	503530	100.0

Select softkey





RESULTS OF MANUAL INTEGRATION FROM CPlot

RAW DATA FILE: R7848

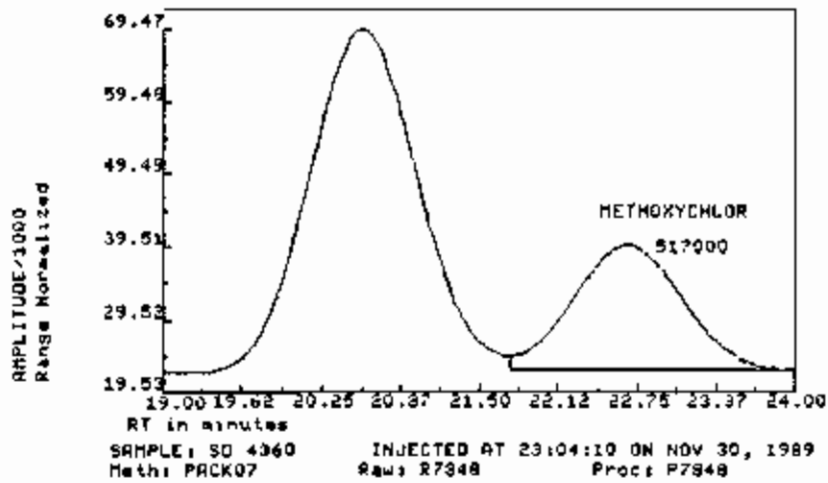
INJECTED AT: 23:04:10 ON NOV 30, 1989

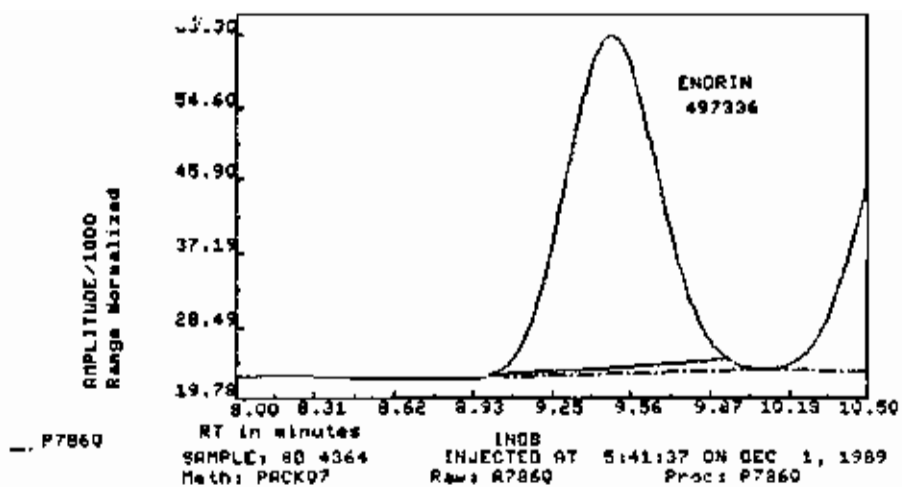
RESULTS ARE IN AREA PERCENT

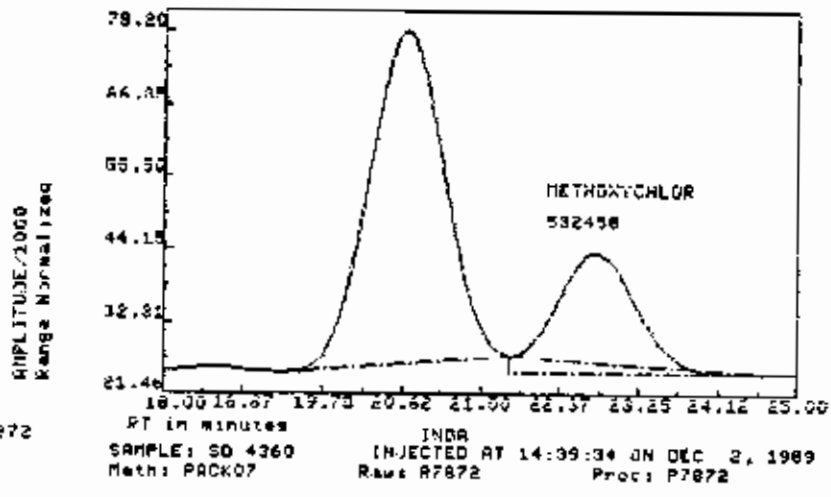
AREA#	TIME1	TIME2	AREA	AREA%
1	21.74	23.87	517000	100.0

Select softkey

S=45 COMMAND ?







**PESTICIDE
DATA
FOR
SECTION
I**

STANDARD COMPOUND CONCENTRATIONS

STD INDA	CONC(ug/ml)
Gamma BHC	0.010
Heptachlor	0.010
Aldrin	0.010
Gamma Chlordane	0.010
Endosulfan I	0.010
Dieldrin	0.020
Endosulfan II	0.040
pp' DDT	0.060
pp' Methoxychlor	0.10

STD INDB	
Alpha BHC	0.010
Beta BHC	0.020
Delta BHC	0.010
Heptachlor Epoxide	0.010
Alpha Chlordane	0.020
pp' DDE	0.020
Endrin	0.040
pp' DDD	0.040
Endrin Aldehyde	0.040
Endosulfan Sulfate	0.040
Endrin Ketone	0.10

MULTICOMPONENT STANDARDS

AR1550	1010	0.30
	1260	0.30
AR1221		1.0
AR1232		0.70
AR1242		0.40
AR1240		0.40
AR1254		0.30
TOXAPH		1.0

EVALUATION MIX STANDARDS

COMPOUND	EVALA	EVALB	EVALC
Aldrin	0.0020	0.0050	0.010
Endrin	0.0050	0.020	0.040
DDT	0.0125	0.030	0.060
DDE	0.020	0.050	0.10

SEQUENCE NAME - SEQ78

CALIB. STD LOT SP 2250/2401

L.U. REF 19

CHANNEL # 7

DATE STARTED

INSTRUMENT # 01

DATE FINISHED

TYPE(S) OF ANALYSIS PEST

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
EVALA	01	EVALA		16:54:19 ON NOV 29, 1989
EVALB	02	EVALB		17:22:38 ON NOV 29, 1989
EVALC	03	EVALC		17:50:58 ON NOV 29, 1989
SD 4360	04	INDA		19:11:46 ON NOV 29, 1989
SD 4364	05	INDB		19:40:05 ON NOV 29, 1989
SD TOXA	06	TOXAPH		20:08:24 DN NOV 29, 1989
SD ARMX	07	AR1660		20:36:43 ON NOV 29, 1989
SD 1221	08	AR1221		21:05:03 ON NOV 29, 1989
SD 1232	09	AR1232		21:33:23 ON NOV 29, 1989
SD 1242	10	AR1242		22:01:41 ON NOV 29, 1989
SD 1248	11	AR1248		22:30:00 ON NOV 29, 1989
SD 1254	12	AR1254		0:06:14 ON NOV 30, 1989
PP 304230 B1	13	18477 3	PBLK75	0:34:33 ON NOV 30, 1989
PP 304231 B2	14	18477 3	PBLK76	1:02:52 ON NOV 30, 1989
PP 303902	15	18477 3	EPS321121	1:31:12 ON NOV 30, 1989
PP 303903	16	18477 3	EPS331121	1:59:31 ON NOV 30, 1989
PP 303904	17	18477 3	EPS341121	2:27:50 ON NOV 30, 1989
EVALB	18	EVALB		2:56:09 ON NOV 30, 1989
PP 303905	19	18477 3	EPS351121	3:24:29 ON NOV 30, 1989
PP 303906	20	18477 3	EPS361121	3:52:48 ON NOV 30, 1989
PP 303907	21	18477 3	EPS371121	4:21:07 ON NOV 30, 1989
PP 303913	22	18477 3	EPS381121	4:49:26 ON NOV 30, 1989
PP 303914	23	18477 3	EPS391121	5:17:45 ON NOV 30, 1989
SD 436D	24	INDA		5:46:03 ON NOV 30, 1989
PP 303915	25	18477 3	EPS401121	6:14:22 ON NOV 30, 1989
PP 301922R	26	18410 5	738001-08	9:17:02 ON NOV 30, 1989
PP 301937R	27	18410 5	738001-05	9:45:23 ON NOV 30, 1989
PP TEST H	28			11:42:58 ON NOV 30, 1989
PP TEST HH	29			12:11:17 ON NOV 30, 1989
EVALB	30	EVALB		12:39:36 ON NOV 30, 1989
CP304208 B1	31	17026 352	PBLK65	13:15:53 ON NOV 30, 1989
CP 303529	32	17060 544	S-02-AR	13:44:12 ON NOV 30, 1989
PP 303902	33	18477 3	EPS321121	14:12:31 ON NOV 30, 1989
PP 303904	34	18477 3	EPS341121	14:40:49 ON NOV 30, 1989

SEQUENCE NAME - SEQ78

CALIB. STD LOT SP 2250/2401

L.U. REF 19

CHANNEL # 7

DATE STARTED

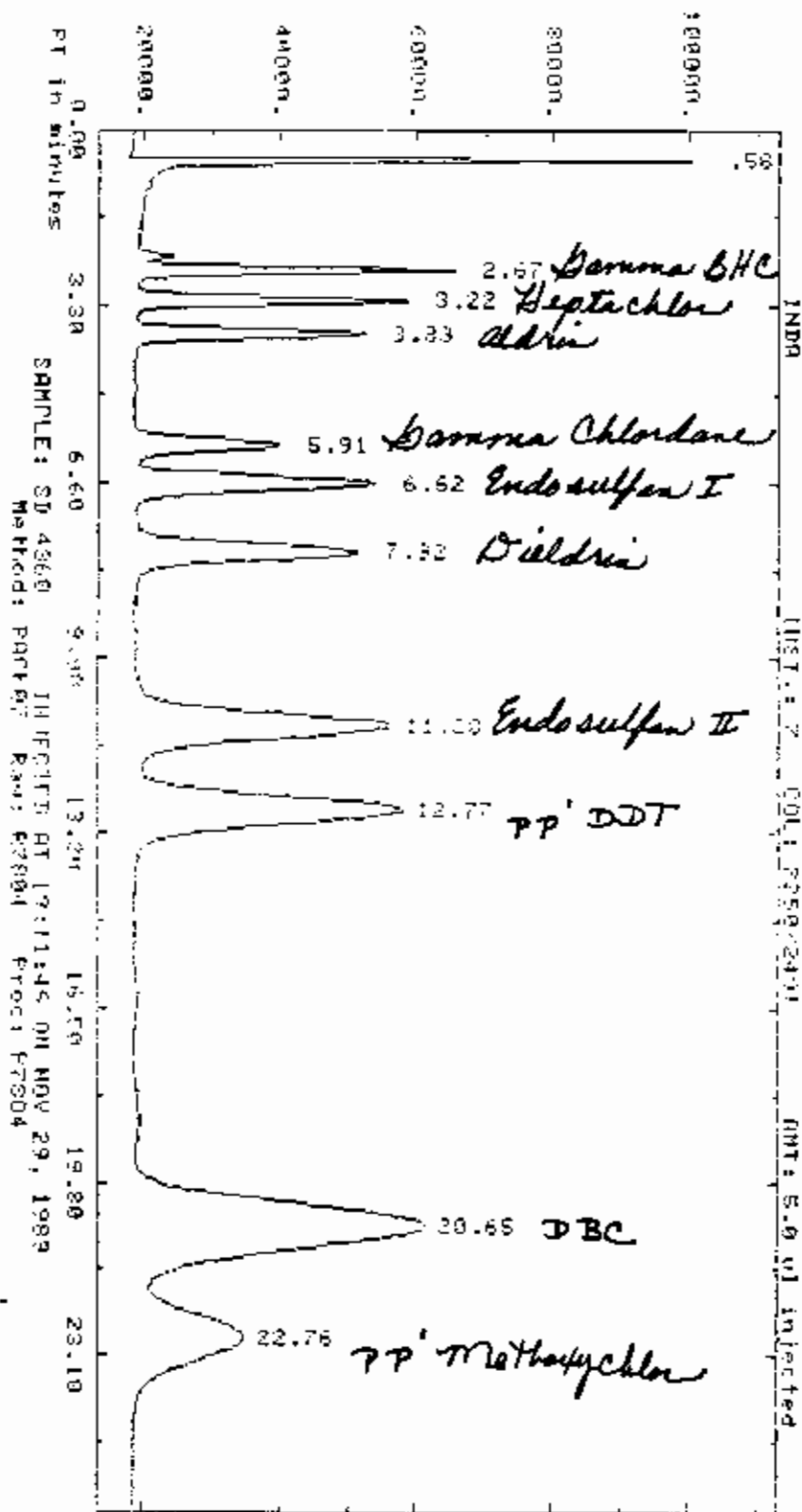
INSTRUMENT # 01

DATE FINISHED

TYPE(S) OF ANALYSIS PEST

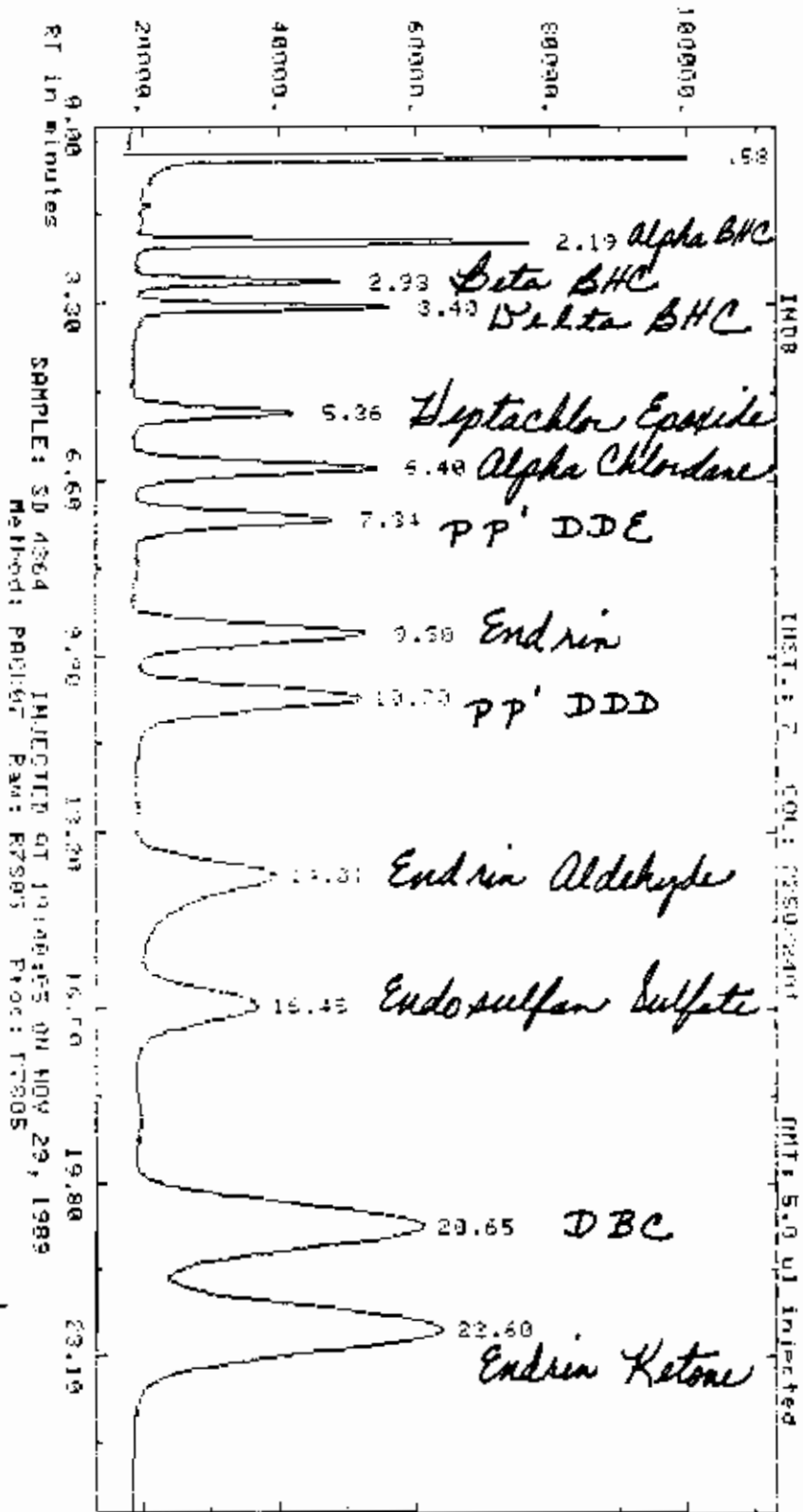
SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
PP 303913	35	18477 3	EPS381121	15:53:48 ON NOV 30, 1989
SD 4364	36	INDB		16:22:07 ON NOV 30, 1989
PP 304671 O	37	18520 22	B08-1	16:50:26 ON NOV 30, 1989
PP 304684 SS	38	18520 22	B08-1MS	17:18:46 ON NOV 30, 1989
PP 304685 SS	39	18520 22	B08-1MSD	17:47:06 ON NOV 30, 1989
PP 304687 BS	40	18520 22	BS	18:15:25 ON NOV 30, 1989
PP 304740 B1	41	18520 22	PBLK01	18:43:44 ON NOV 30, 1989
EVALB	42	EVALB		19:12:04 ON NOV 30, 1989
PP 304672	43	18520 22	B08-2	20:42:32 ON NOV 30, 1989
PP 304673	44	18520 22	B09-1	21:10:52 ON NOV 30, 1989
PP 304674	45	18520 22	B09-2	21:39:11 ON NOV 30, 1989
PP ALU BL#93	46			22:07:30 ON NOV 30, 1989
PP 304741 B2	47	18520 22	PBLK02	22:35:50 ON NOV 30, 1989
SD 4360	48	INDA		23:04:10 ON NOV 30, 1989
PP 304801 B1	49	18427 6	PBLK11	0:30:06 ON DEC 1, 1989
PP 304802 B2	50	18427 6	PBLK12	0:58:26 ON DEC 1, 1989
PP 302199R	51	18427 6	MW-1-20MS	1:26:45 ON DEC 1, 1989
PP 302211R	52	18427 6	MW-1-20MSD	1:55:04 ON DEC 1, 1989
PP 302201R	53	18427 6	BS	2:23:23 ON DEC 1, 1989
EVALB	54	EVALB		2:51:43 ON DEC 1, 1989
ALUM BK97	55			3:20:01 ON DEC 1, 1989
PP 304755 B1	56	17603 990	PBLK05	3:48:20 ON DEC 1, 1989
ALUM BK95	57			4:16:39 ON DEC 1, 1989
PP 304756 B2	58	17603 990	PBLK06	4:44:58 ON DEC 1, 1989
PP 303221R	59	17603 990	09SD901X4MS	5:13:18 ON DEC 1, 1989
SD 4364	60	INDB		5:41:37 ON DEC 1, 1989
PP 30322R	61	17603 990	09SD901X4MSD	6:09:57 ON DEC 1, 1989
PP 303223R	62	17603 990	BS	6:38:16 ON DEC 1, 1989
PP ALU#95	63			8:27:48 ON DEC 1, 1989
PP 303176 B	64	18410 5	PBLK19	14:42:48 ON DEC 1, 1989
CP 304760 B	65	18518 25	PBLK03	15:23:32 ON DEC 1, 1989
EVALB	66	EVALB		15:51:50 ON DEC 1, 1989
CP 304571	67	18518 25	ROLSIGW1	16:52:11 ON DEC 1, 1989
PP 303901	68	18477 3	EPS311121	10:46:24 ON DEC 2, 1989

AMPLITUDE x.25 uV-seconds (Enlarged x 17.67)



Report: 14039.00 Channel: 7 INDA
 Sample: 80 4360 Injected at 17:11:46 ON NOV 29, 1987
 ZERO Method: PACK07 Seq: 85978 Subsqs/Samp: 17 4 Brl: 4
 Sl-width HU/Min Delay Min-Gr Bunch
 .400 .300 0.00 20000 Auto
 Sup-Link DvT ID-Lvl Ref-RTW XRTW XDil-F Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.017 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
5.8	0.00	1.0000E+01	1621903.	27.458	B8
6.67	0.00	1.0000E+01	183624.	3.107	B9
13.22	0.00	1.0000E+01	194333.	3.270	B9
13.83	0.00	1.0000E+01	190355.	3.231	B9
15.91	0.00	1.0000E+01	167311.	2.832	B9
16.62	0.00	1.0000E+01	329213.	5.476	B9
17.93	0.00	1.0000E+01	357064.	5.914	B9
11.20	0.00	1.0000E+01	701632.	11.605	B9
12.77	0.00	1.0000E+01	430000.	7.143	B9
20.65	0.00	1.0000E+01	121734.	2.046	B9
22.74	0.00	1.0000E+01	372013.	6.248	B9
Total Area =		5905882	Total Area % = 372050.500		
Processed data file: 85978		Data file: 85978			



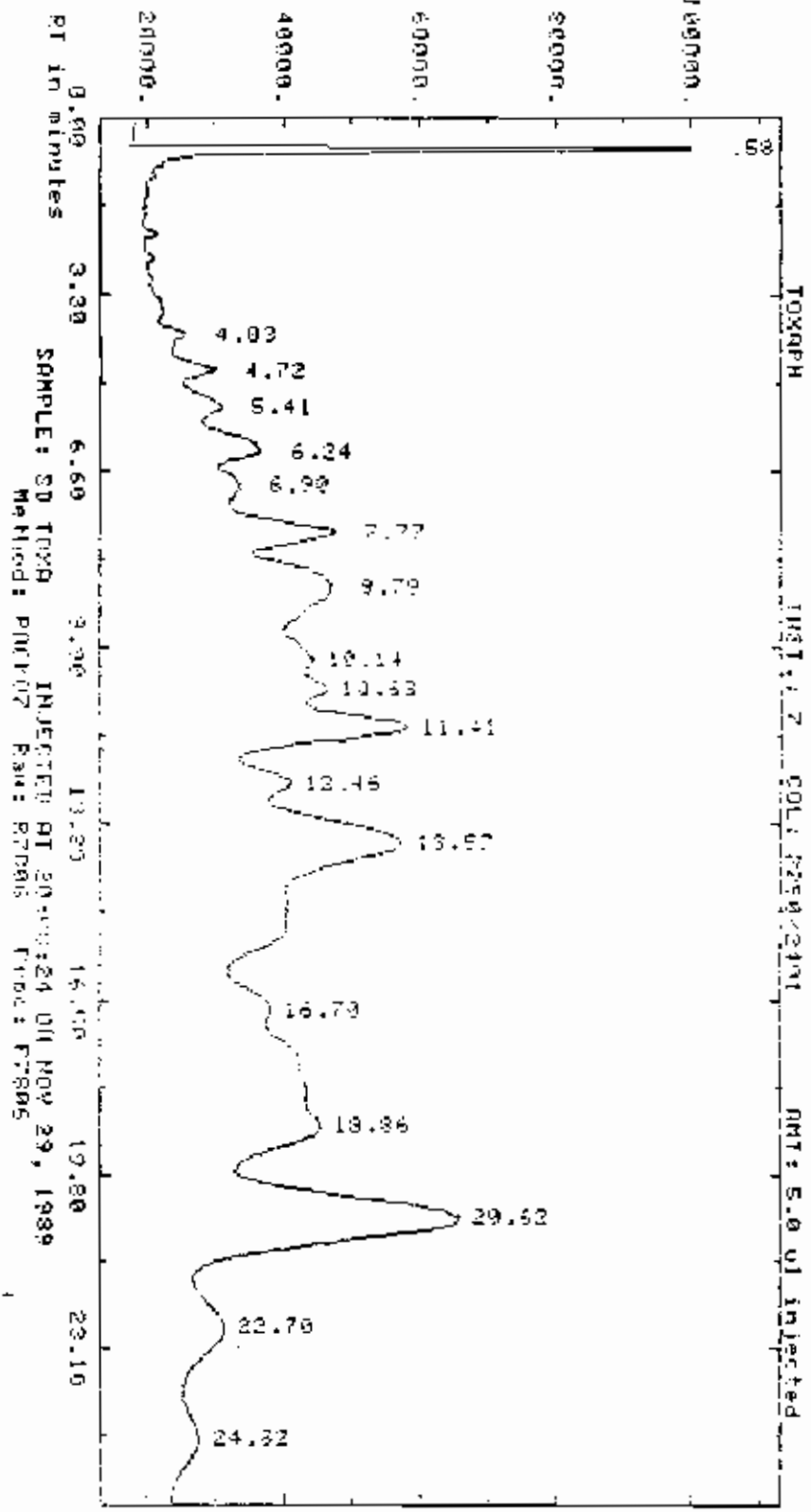
Report: 14940.00 Channel: 7 TND8
 Sample: SD 4364 Injected at 19:40:05 ON NOV 29, 1989
 ZERO Method: PACK07 Seq: SEQ79 Subaq/Samp: 1/ 5 Rtl: 5
 Sl-width MU/Min Delay Min-Ar Punch
 .500 .300 0.00 20000 Auto
 Sup-Link DuT ID-Lvl Ref-RTN XRTW XDil-f Iso
 NO 0.00 0 30 5.0 100.00 NO

Actual run time: 26.025 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.58	0.00	.10000E+01	2347170.	30.545	BS
2.19	0.00	.10000E+01	201749.	2.625	BS
2.93	0.00	.10000E+01	129684.	1.680	BS
3.40	0.00	.10000E+01	185745.	2.435	BS
5.36	0.00	.10000E+01	130351.	1.693	BS
5.40	0.00	.10000E+01	225324.	2.940	BS
7.74	0.00	.10000E+01	293174.	3.817	BS
9.58	0.00	.10000E+01	439297.	5.717	BS
10.70	0.00	.10000E+01	491835.	6.434	BS
14.01	0.00	.10000E+01	175847.	2.303	BS
15.45	0.00	.10000E+01	267335.	3.500	BS
20.65	0.00	.10000E+01	1113279.	14.566	BS
22.60	0.00	.10000E+01	1137941.	14.843	BS

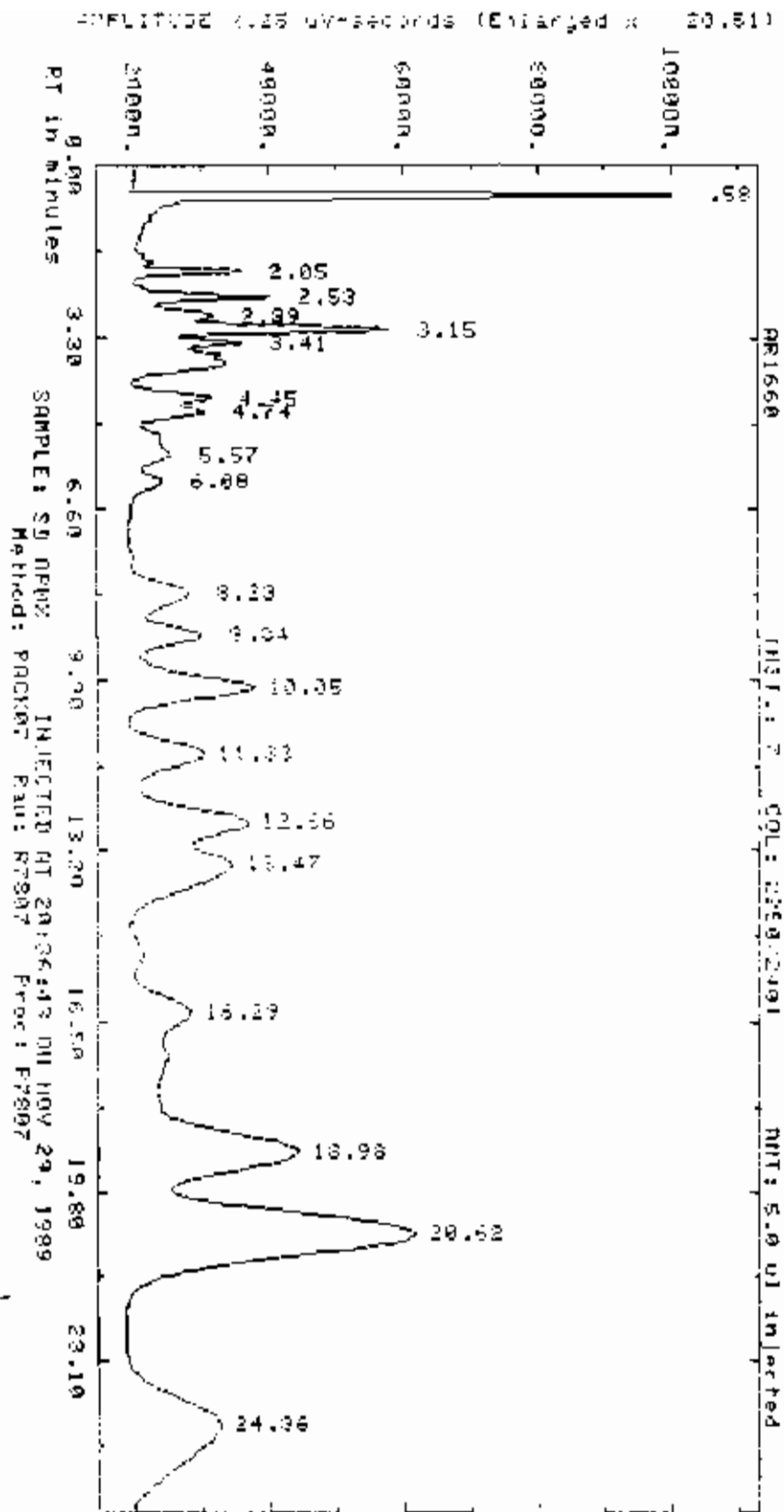
Total Area = 7484357 Total Area % = 100.000000
 Processed data file: 97805 Raw data file: 91665

AMPLITUDE 4.25 W-seconds (Enlarged x 17.56)



Report: 14041.00 Channel: 7 TOXAPH
 Sample: SD TOXA Injected at 20:08:24 ON NOV 29, 1989
 ZERO Method: PACK07 Seq: SEQ79 Subsq/Samp: 1/ 6 Btl: 6
 Sl-width MU/Min Delay Min-Av Bunch
 .500 .300 0.00 20000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-F Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA-%	Name
.58	0.00	.10000E+01	1765269.	40.496	B5
4.03	0.00	.10000E+01	20215.	.475	B6
4.72	0.00	.10000E+01	35939.	.847	B8
5.41	0.00	.10000E+01	38500.	.883	B8
6.24	0.00	.10000E+01	23271.	2.149	B8
6.90	0.00	.10000E+01	23540.	.540	B8
7.77	0.00	.10000E+01	155212.	3.571	B8
8.79	0.00	.10000E+01	29136.	.695	B8
10.14	0.00	.10000E+01	23580.	.536	B8
10.68	0.00	.10000E+01	27053.	.606	B8
11.41	0.00	.10000E+01	26058.	.593	B8
12.46	0.00	.10000E+01	51203.	1.160	B8
13.57	0.00	.10000E+01	444551.	10.104	B8
14.70	0.00	.10000E+01	34487.	.790	B8
18.85	0.00	.10000E+01	112314.	2.532	B8
20.62	0.00	.10000E+01	178000.	4.033	B8
22.70	0.00	.10000E+01	153864.	3.575	B8
24.82	0.00	.10000E+01	23864.	.542	B8
Total Area =			4368340.	Total AREA % =	6300.1750
Processed data file: P2906				Raw data file: R2906	



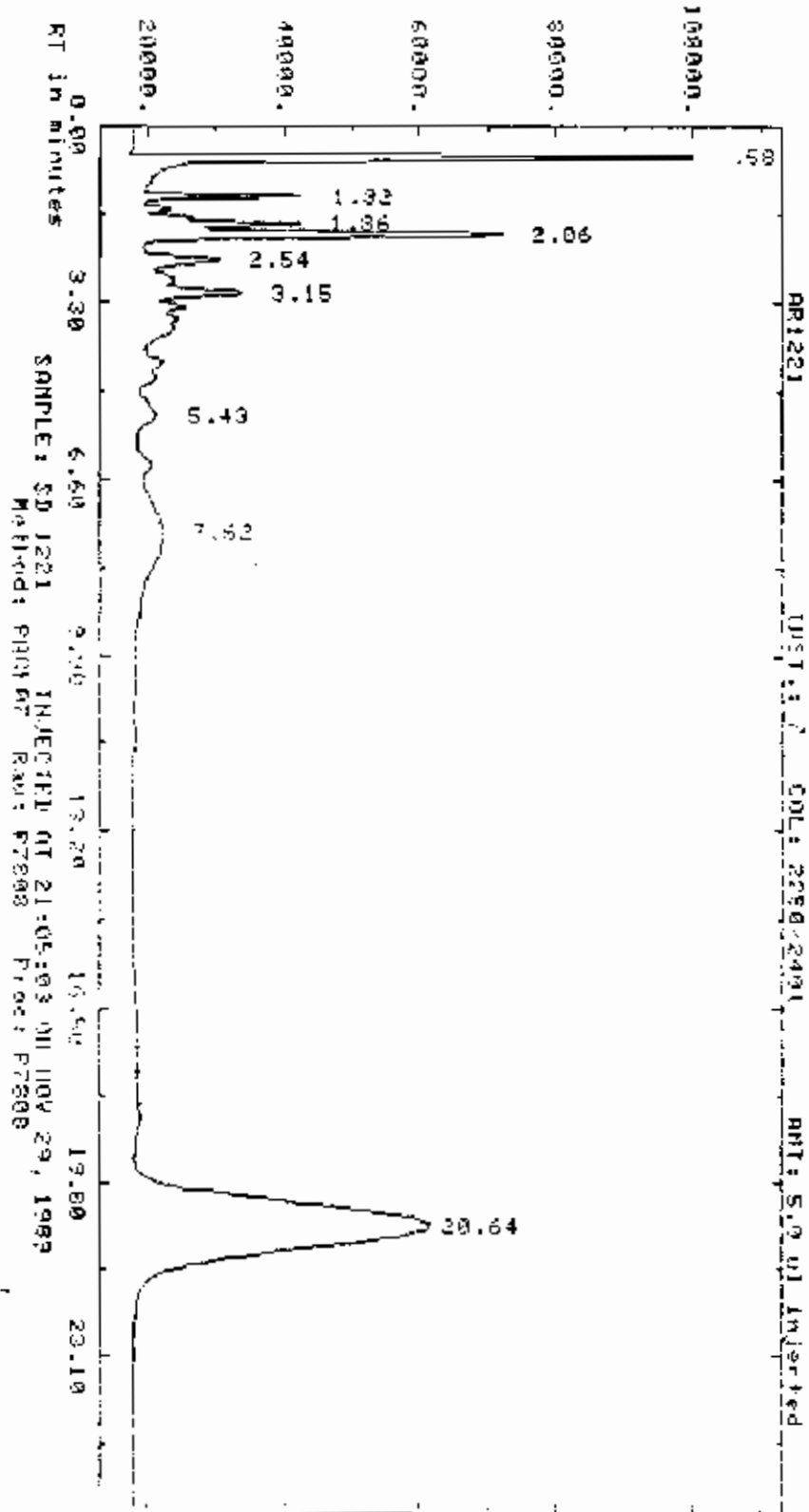
Report: 14042.00 Channel: 7 AR1660
 Sample: 50 ARMX Injected at 20:36:43 ON NOV 29, 1989
 ZERO Method: PACK07 Seq: SEQ78 Subsq/Samp: 1/7 Btl: 7
 Sl-width MU/Min Delay Min-Ar Hunch
 .500 .300 0.00 20000 Auto
 Sep-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
 NO 0.00 0 30 5.0 100.00 NO

Actual run time: 26.017 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
2.58	0.00	1.0000E+01	1971327	36.190	8S
2.65	0.00	1.0000E+01	52659	.967	8B
3.53	0.00	1.0000E+01	37589	1.243	8D
3.89	0.00	1.0000E+01	22276	.409	8E
3.15	0.00	1.0000E+01	122921	2.257	8F
3.41	0.00	1.0000E+01	22768	.547	8G
4.45	0.00	1.0000E+01	32846	.603	8H
4.74	0.00	1.0000E+01	29319	.536	8I
5.57	0.00	1.0000E+01	31753	.433	8J
6.08	0.00	1.0000E+01	24790	.455	8K
8.23	0.00	1.0000E+01	77304	1.266	8L
8.84	0.00	1.0000E+01	98347	1.821	8M
10.05	0.00	1.0000E+01	249759	4.335	8N
11.33	0.00	1.0000E+01	130814	2.368	8O
13.64	0.00	1.0000E+01	154417	2.711	8P
13.47	0.00	1.0000E+01	141919	2.578	8Q
16.29	0.00	1.0000E+01	72578	1.307	8R
18.98	0.00	1.0000E+01	472818	8.156	8S
20.62	0.00	1.0000E+01	1045273	19.137	8T
24.34	0.00	1.0000E+01	548569	9.843	8U

Total Area = 5447133 Total AREA % = 100.000
 Processed data file: 82607 Raw data file: 82607

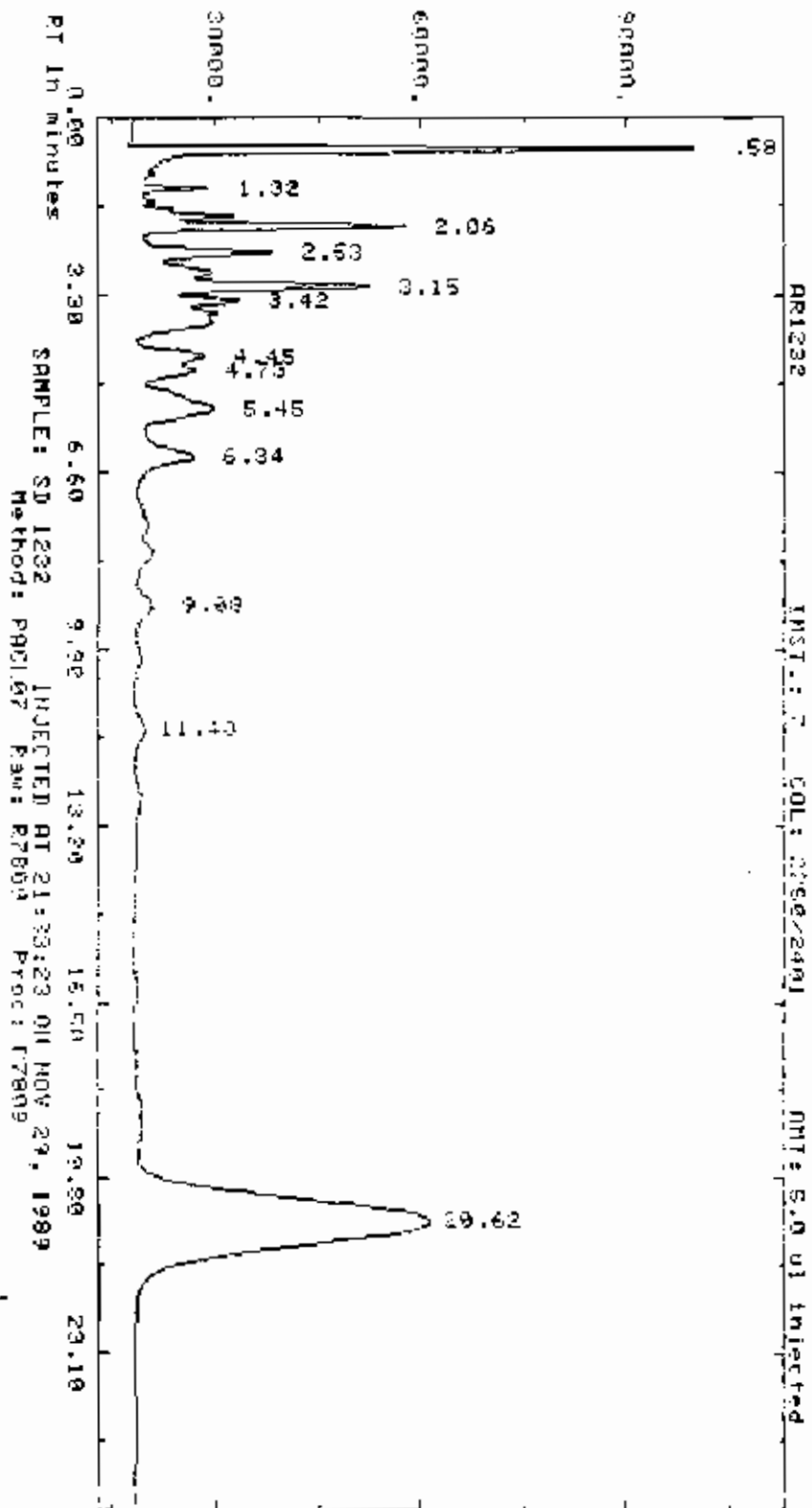
AMPLITUDE x.25 uV-seconds (Enlarged x 16.31)



Report: 14043.00 Channel: 7 AR1221
 Sample: SD 1221 Injected at 21:05:03 ON NOV 29, 1989
 ZERO Method: PACK07 Seq: SEQ78 Subsq/Samp: 1/ 6 Gtl: 8
 SI-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 20000 Auto
 Sup-Unk DuT ID-Lvl Ref-RTW XRTW XDil-f Iso
 NO 0.00 0 0.30 5.0 100.00 NO
 Actual run time: 26.025 minutes

RT	ITM	Factor	Area	AREA %	Name
.58	0.00	.10000E+01	1487471	45.036	BB
1.32	0.00	.10000E+01	57289	1.735	BB
1.86	0.00	.10000E+01	35111	1.063	BB
2.06	0.00	.10000E+01	168165	5.072	BB
2.54	0.00	.10000E+01	43364	1.313	BB
3.15	0.00	.10000E+01	45351	1.373	BB
5.43	0.00	.10000E+01	32154	0.975	BB
7.62	0.00	.10000E+01	111125	3.384	BB
20.64	0.00	.10000E+01	1302127	39.430	BB
Total Area =			3302847	Total AREA % = 100.000	
Processed data file:			P7809	Raw data file: 17806	

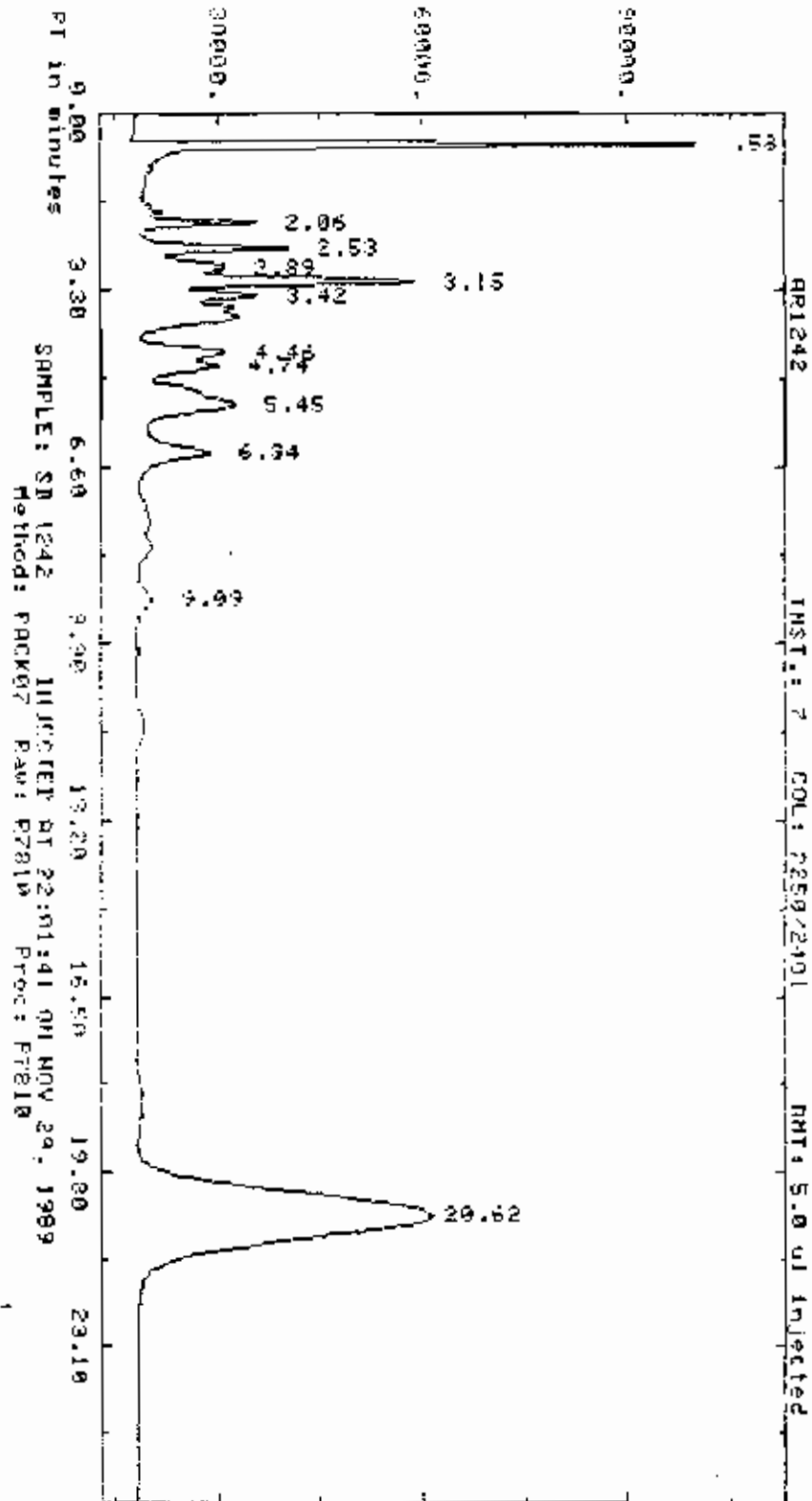
AMPLITUDE 0.25 uV-seconds (Enlarged x 17.11)



Report: 14044.00 Channel: 7 NR1232
 Sample: SD 1232 Injected at 21:53:23 ON NOV 29, 1989
 ZERO Method: PACK07 Seq: SEQ78 Subsq/Samp: 1/ 9 Rtl: 9
 SI-width MU/Min Delay Min-Ac Bunch
 .500 .300 0.00 20000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW X01-f Iso
 NO 0.00 0 0.30 5.0 100.00 NO
 Actual run time: 26.008 minutes
 Ended not on baseline

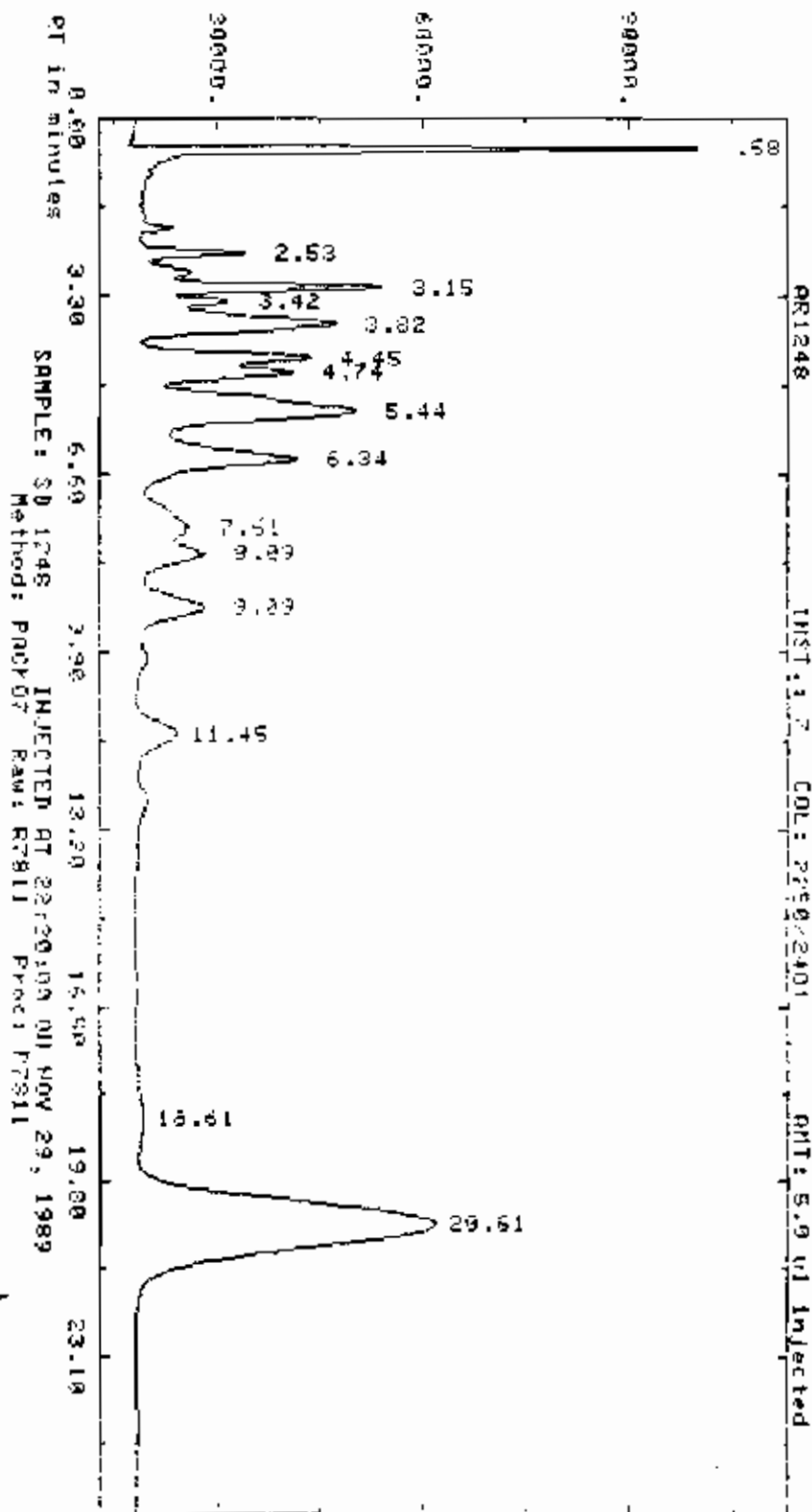
RT	ITH	Factor	Area	AREA %	Name
.59	0.00	.10000E+01	1596733.	45.028	BS
1.32	0.00	.10000E+01	22891.	.647	BB
3.06	0.00	.10000E+01	126827.	3.599	BB
2.53	0.00	.10000E+01	67200.	1.907	BB
3.15	0.00	.10000E+01	107522.	3.031	BB
3.42	0.00	.10000E+01	25694.	.758	BB
4.45	0.00	.10000E+01	26177.	.743	BB
4.73	0.00	.10000E+01	20733.	.598	BB
5.45	0.00	.10000E+01	120362.	3.407	BB
6.34	0.00	.10000E+01	77252.	2.206	BB
9.09	0.00	.10000E+01	28329.	.806	BB
11.40	0.00	.10000E+01	22443.	.652	BB
20.62	0.00	.10000E+01	1290347.	36.631	BB
Total Area = 3523914.			Total AREA % = 100.047500		
Processed data file: P7809			Raw data file: 17809		

AMPLITUDE x 15 uV-seconds (Enlarged x 13.62)



Report: 14045.00 Channel: 7 A91242
 Sample: SD 1242 Injected at 22:01:41 UR NGV 29, 1989
 ZERO Method: PACK07 Seq: SEQ28 Subsq/Samp: 1/10 Btl: 10
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 28000 Auto
 Sup-Unk DuT ID-Lvl Ref-RTW %RTW XDi1-F Iso
 NO 0.00 0 1.30 5.0 100.00 NO
 Actual run time: 25.008 minutes

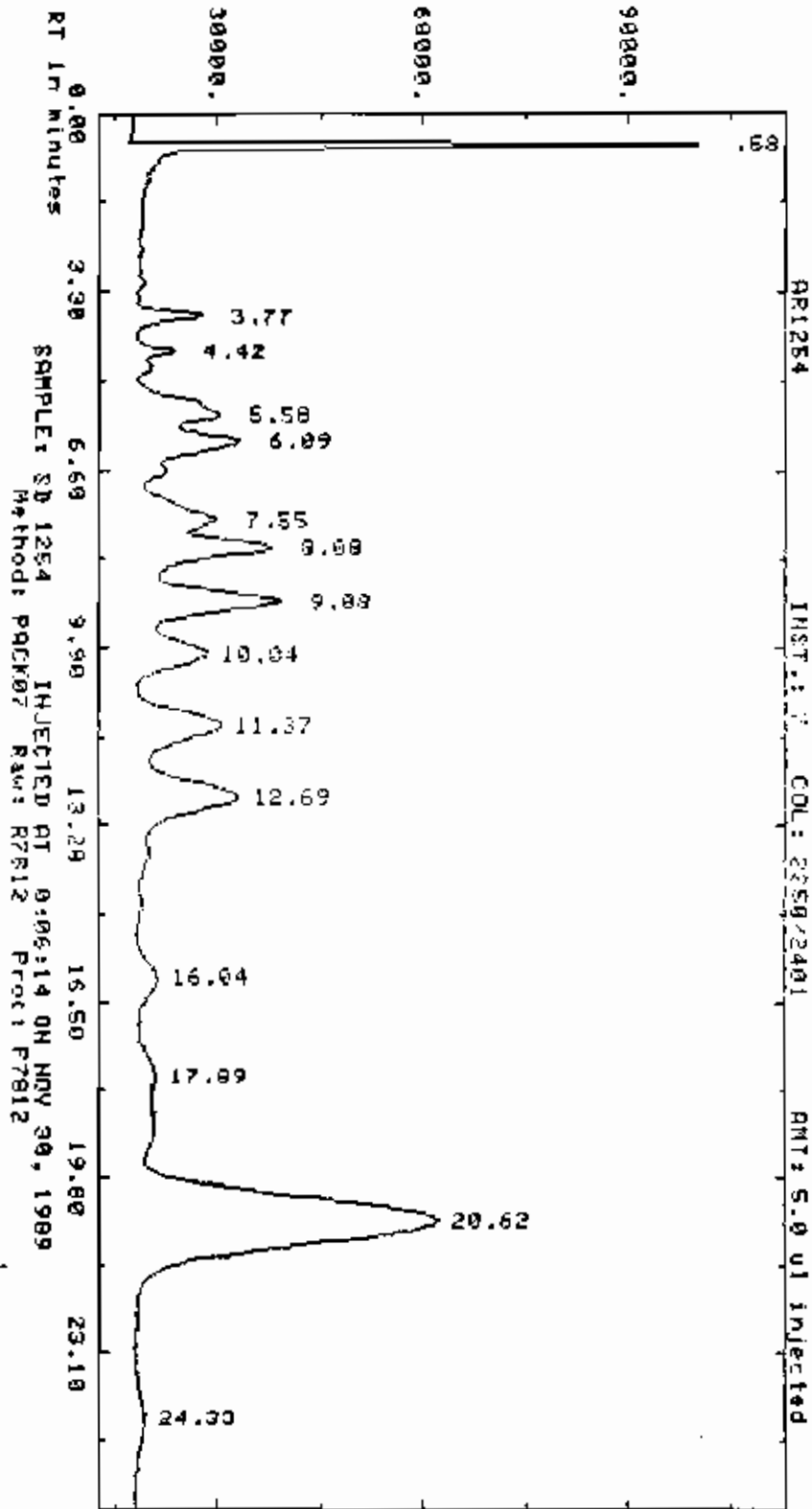
RT	ITM	Factor	Area	AREA %	Name
1.58	0.00	.10000E+01	1318951.	89	40.260
2.06	0.00	.10000E+01	56388.	88	1.721
2.53	0.00	.10000E+01	72416.	88	2.210
2.89	0.00	.10000E+01	23818.	89	.723
3.15	0.00	.10000E+01	129637.	86	3.957
3.42	0.00	.10000E+01	31711.	88	.966
4.44	0.00	.10000E+01	31894.	88	1.055
4.74	0.00	.10000E+01	30125.	88	.920
5.45	0.00	.10000E+01	149314.	88	4.559
6.34	0.00	.10000E+01	91997.	88	2.808
9.09	0.00	.10000E+01	25930.	88	.785
20.62	0.00	.10000E+01	1341336.	84	40.928
Total Area =		3276041	Total AREA % = 100.000000		
Processed data file: P2810			Raw data file: R2810		



Report: 14046.00 Channel: 7 AR1248
 Sample: SD 1248 Injected at 22:30:00 ON NOV 29, 1989
 ZERO Method: PACK07 Seq: SEQ78 Subsq/Samp: 1/11 Btl: 11
 SI-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 20000 Auto
 Sup-Link DoT ID-Lvl Ref-RTW XRTW XDil-f Iso
 NO 0.00 0 30 5.0 100.00 NO
 Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
1.58	0.00	.10000E+01	1893883.	41.301	PS
2.53	0.00	.10000E+01	53184.	1.138	BB
3.15	0.00	.10000E+01	125194.	2.730	BB
3.42	0.00	.10000E+01	23269.	.507	BB
3.82	0.00	.10000E+01	198793.	4.335	BB
4.45	0.00	.10000E+01	74562.	1.626	BB
4.74	0.00	.10000E+01	62402.	1.361	BB
5.44	0.00	.10000E+01	333696.	7.277	BB
6.34	0.00	.10000E+01	211234.	4.607	BB
7.61	0.00	.10000E+01	43705.	.953	BB
9.09	0.00	.10000E+01	47119.	1.029	BB
9.09	0.00	.10000E+01	114075.	2.503	BB
11.45	0.00	.10000E+01	20693.	.452	BB
18.61	0.00	.10000E+01	21506.	.462	BB
20.61	0.00	.10000E+01	172207.	3.713	BB
Total Area =		4595570	Total AREA % = 1294817.000		
Processed data file:		P7811	Raw data file: #7811		

AMPLITUDE x.25 uV-seconds (Enlarged x 14.54)



Report: 14048.00 Channel: 7 AR1254
 Sample: SD 1254 Injected at 0:06:14 ON NOV 30, 1989
 ZERO Method: PACK07 Seq: SEQ78 Subsq/Samp: 1/12 Btl: 12

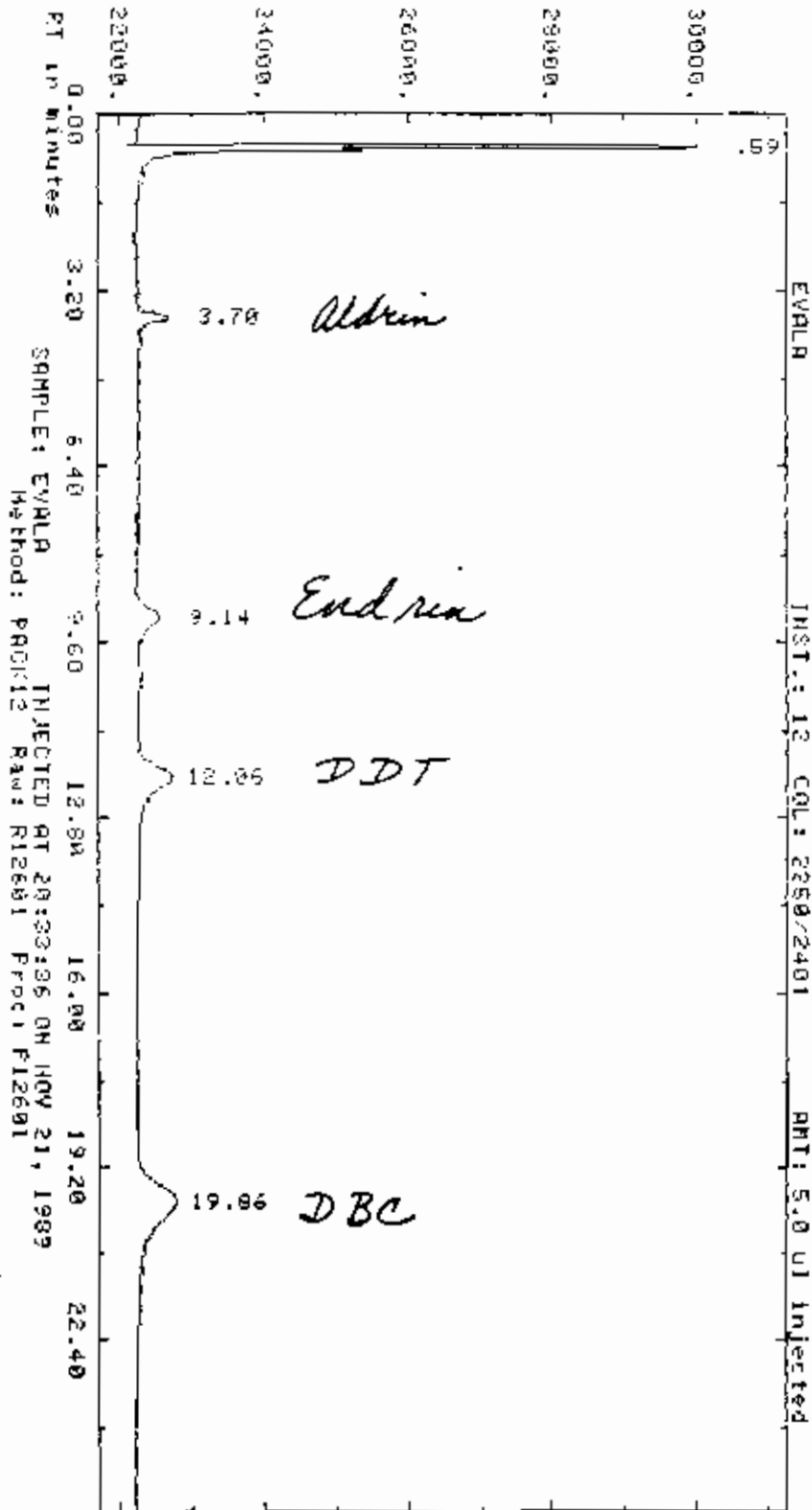
SI-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 20000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW %Dil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.53	0.00	.10000E+01	1203934.	31.732	BS
3.77	0.00	.10000E+01	56084.	1.478	BB
4.42	0.00	.10000E+01	22224.	.586	BB
5.58	0.00	.10000E+01	87249.	2.300	BB
6.09	0.00	.10000E+01	94347.	2.487	BB
7.55	0.00	.10000E+01	63777.	1.681	BB
8.08	0.00	.10000E+01	129844.	3.422	BB
9.08	0.00	.10000E+01	216615.	5.683	BB
10.04	0.00	.10000E+01	114031.	3.005	BB
11.37	0.00	.10000E+01	180004.	4.744	BB
12.69	0.00	.10000E+01	222383.	5.861	BB
16.04	0.00	.10000E+01	67390.	1.753	BD
17.89	0.00	.10000E+01	22355.	.589	BD
20.62	0.00	.10000E+01	1286599.	33.910	BD
24.33	0.00	.10000E+01	38274.	1.009	BF
Total Area =			3794110.	Total AREA % =	38274.000
Processed data file:			P7812	Raw data file:	R7812

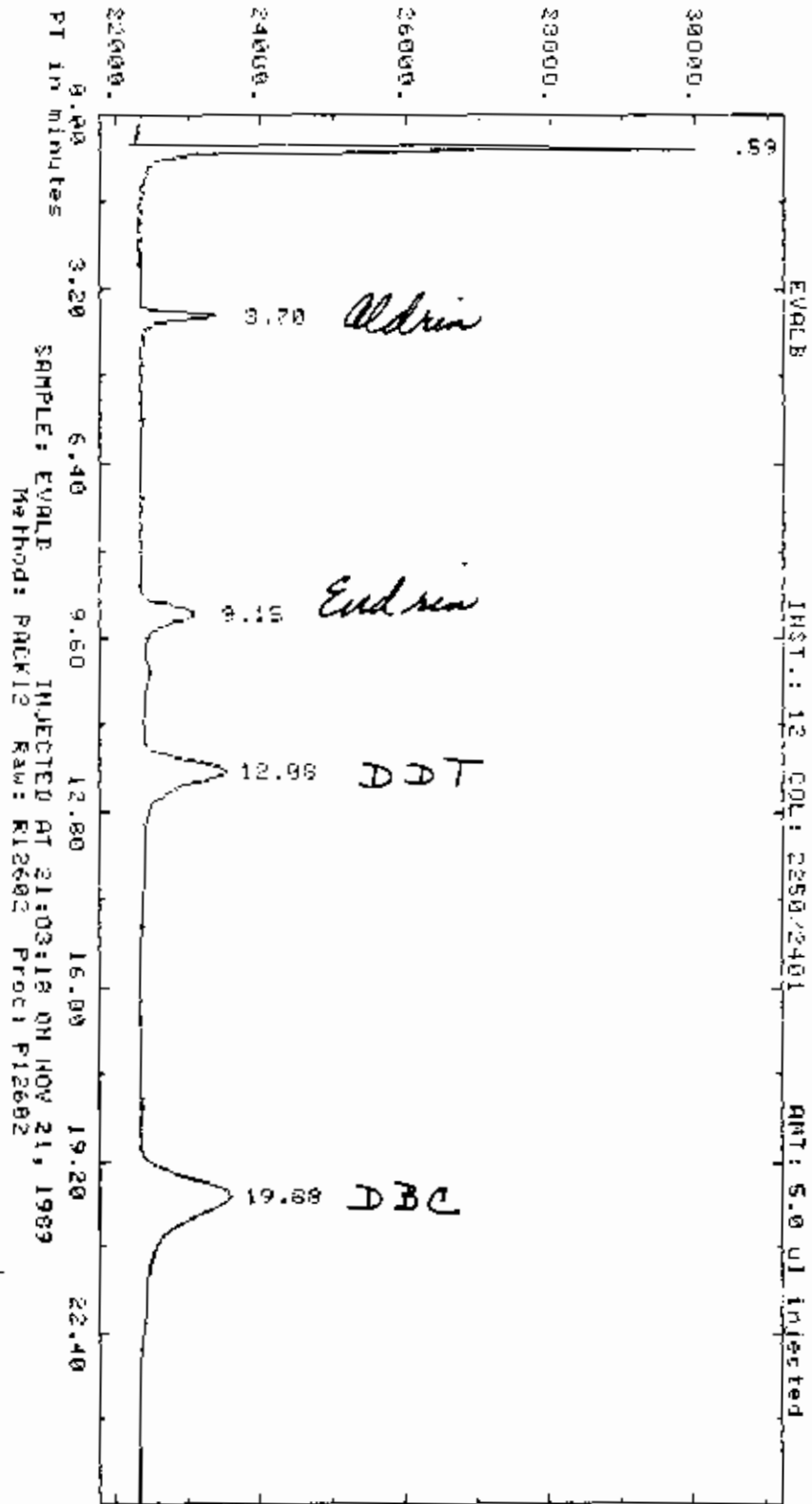
AMPLITUDE x.25 uV-seconds (Enlarged x 2.78)



Report: 12300.00 Channel: 12 EVALA
 Sample: EVALA Injected at 20:33:36 ON NOV 21, 1989
 ZFRO Method: PCK12 Seq: 9EQ126 Subsq/Samp: 1/0 Btl: 1
 Sl-Width MV/Min Delay Min-Ar Puncb
 .500 .300 0.00 1000 0000
 Sup-Unk pvt ID-Lvl Ref-RTW %RTW %Dil-F Iso
 NO 0.00 0 1.30 5.0 100.00 NO
 Actual run time: 25.503 minutes

RT	ITM	Factor	Area	AREA %	Name
5.9	0.00	.10000E+01	23678. BB	46.608	
3.70	0.00	.10000E+01	1999. BB	3.925	
9.14	0.00	.10000E+01	3800. BB	7.087	
12.06	0.00	.10000E+01	7593. BB	14.769	
19.86	0.00	.10000E+01	14922. BB	27.601	
Total Area = 59802.			Total AREA % = 14922.000		
Processed data file: P12601			Raw data file: R12601		

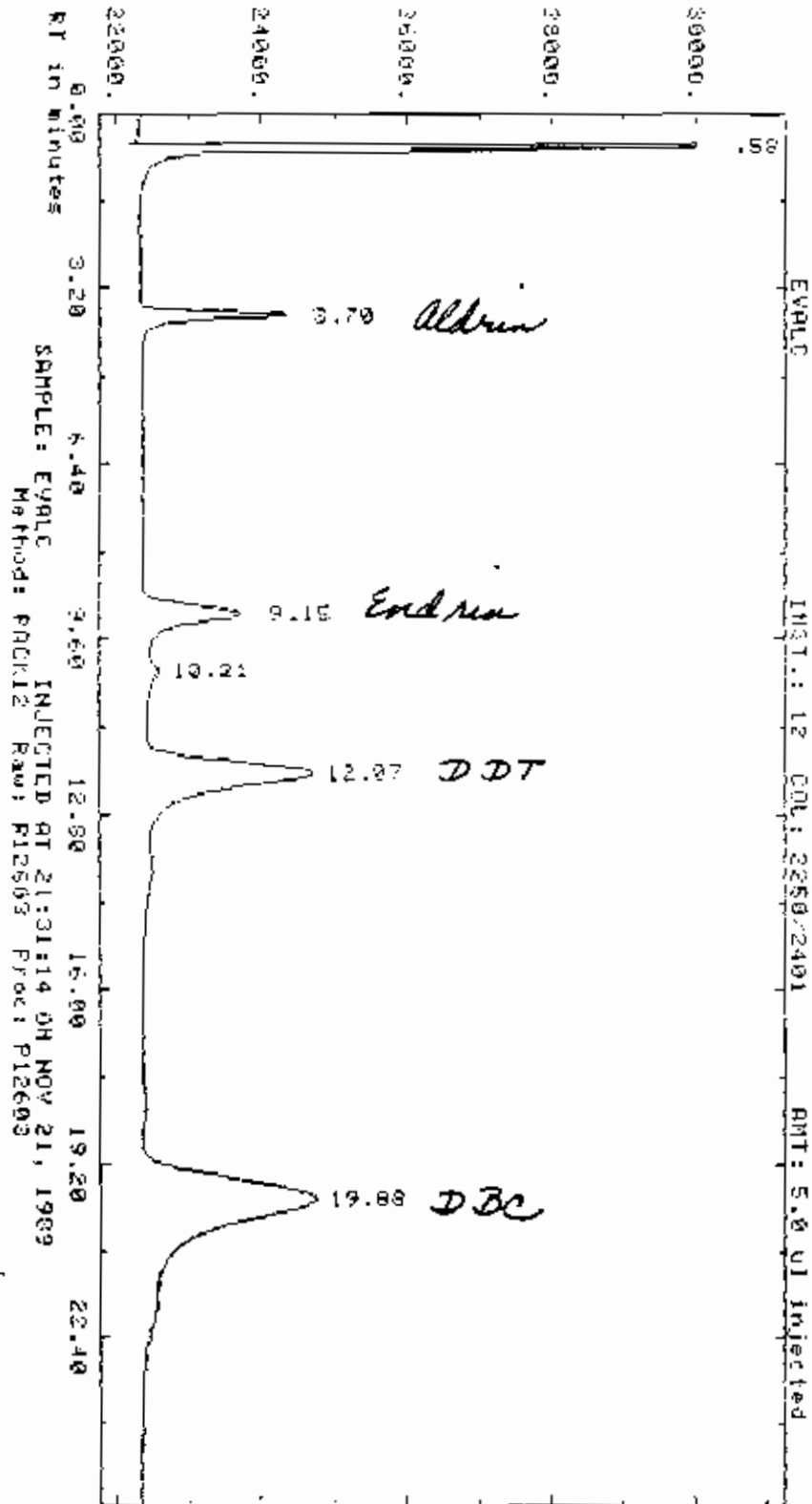
AMPLITUDE x.25 uV-seconds (Enlarged x 3.10)



Report: 12389 00 Channel: 12 EUGLB
 Sample: EVALB Injected at 21:03:18 ON NOV 21, 1939
 ZERO Method: PAKK12 Seq: SEQ126 Subsq/Samp: 1/ 2 P11: 2
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 1000 Auto
 Sup-Unk Det ID-Lvl Ref-RTU XRTU %Off-f Iso
 NO 0.00 0 30 5.0 100.00 NO
 Actual run time: 25 517 minutes

RT	ITM	Factor	Area	AREA %	Name
.57	0.00	.10000E+01	25612.	BB	25.207
3.70	0.00	.10000E+01	5392.	BB	5.541
9.15	0.00	.10000E+01	3179.	BB	6.393
12.08	0.00	.10000E+01	19042.	BB	19.540
19.08	0.00	.10000E+01	39213.	BB	40.239
Total Area =		97450	Total AREA % =		39213.000
Processed data file: P12602			Raw data file: R12602		

AMPLITUDE x.25 uV-seconds (Enlarged x 4.07)



Report: 12390.00 Channel: 12 EVALC

Sample: EVALC Injected at 21:31:14 DN NOV 21, 1987

ZERO Method: PACK12 Seq: SEQ126 Subseq/Samp: 1/3 Pti: 3

Sl-width MV/Min Delay Min-Ar Bunch
.500 .300 0.00 1000 Auto

Sup-Unk DVT ID-Lvl Ref-RTW %RTW %Dil-P Iso
NO 0.00 0 .30 5.0 100.00 NC

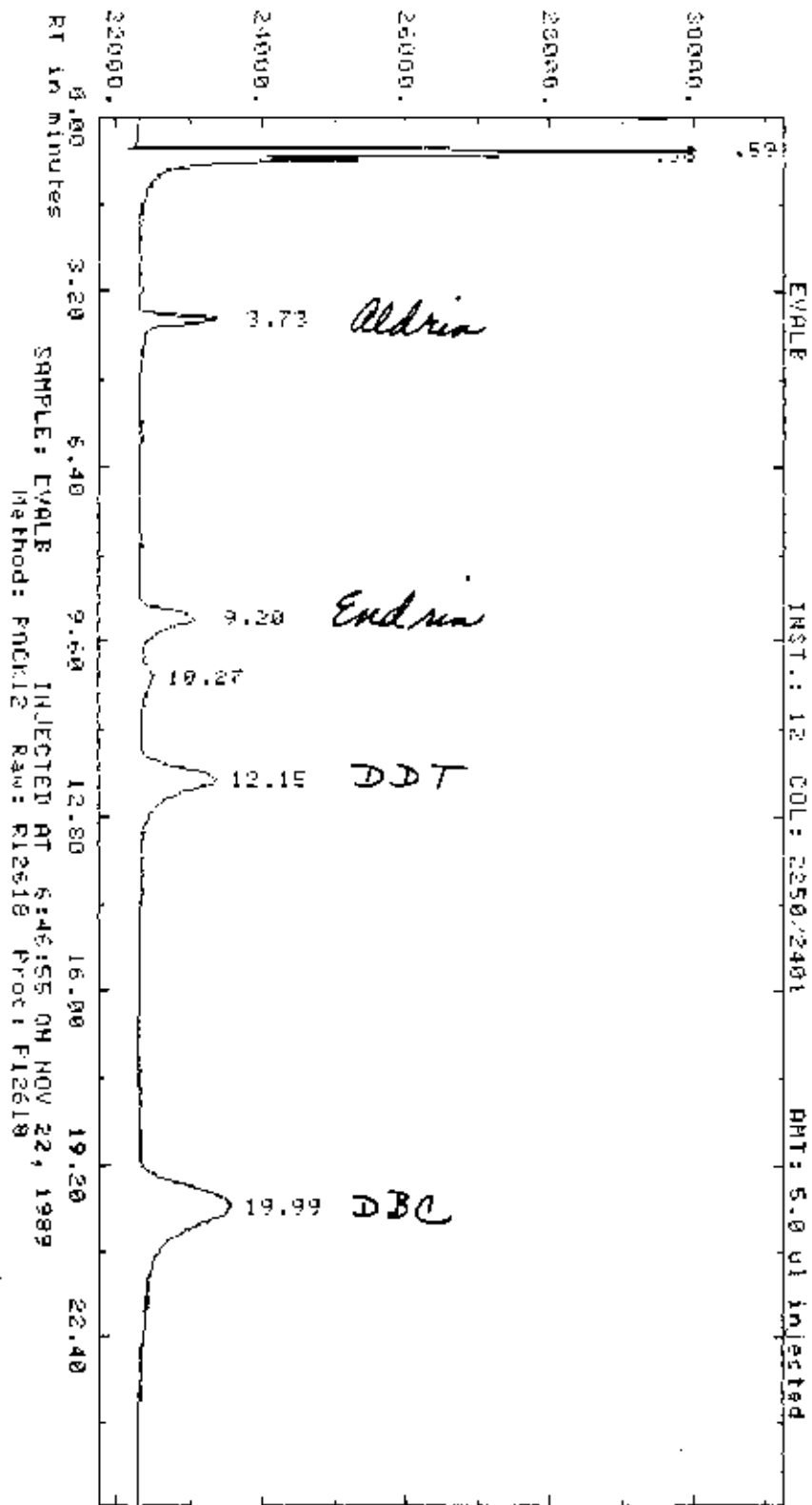
Actual run time: 25.508 minutes

RT	ITM	Factor	Area	AREA %	Name
.58	0.00	.10000E+01	33689. BB	19.113	
3.70	0.00	.10000E+01	10469. BB	5.939	
9.15	0.00	.10000E+01	15487. BB	8.787	
10.21	0.00	.10000E+01	1373. BB	.893	
12.07	0.00	.10000E+01	37561. BB	21.310	
19.88	0.00	.10000E+01	77481. BB	43.956	

Total Area = 176262 Total AREA % = 77481.000

Processed data file: P12603 Raw data file: R12603

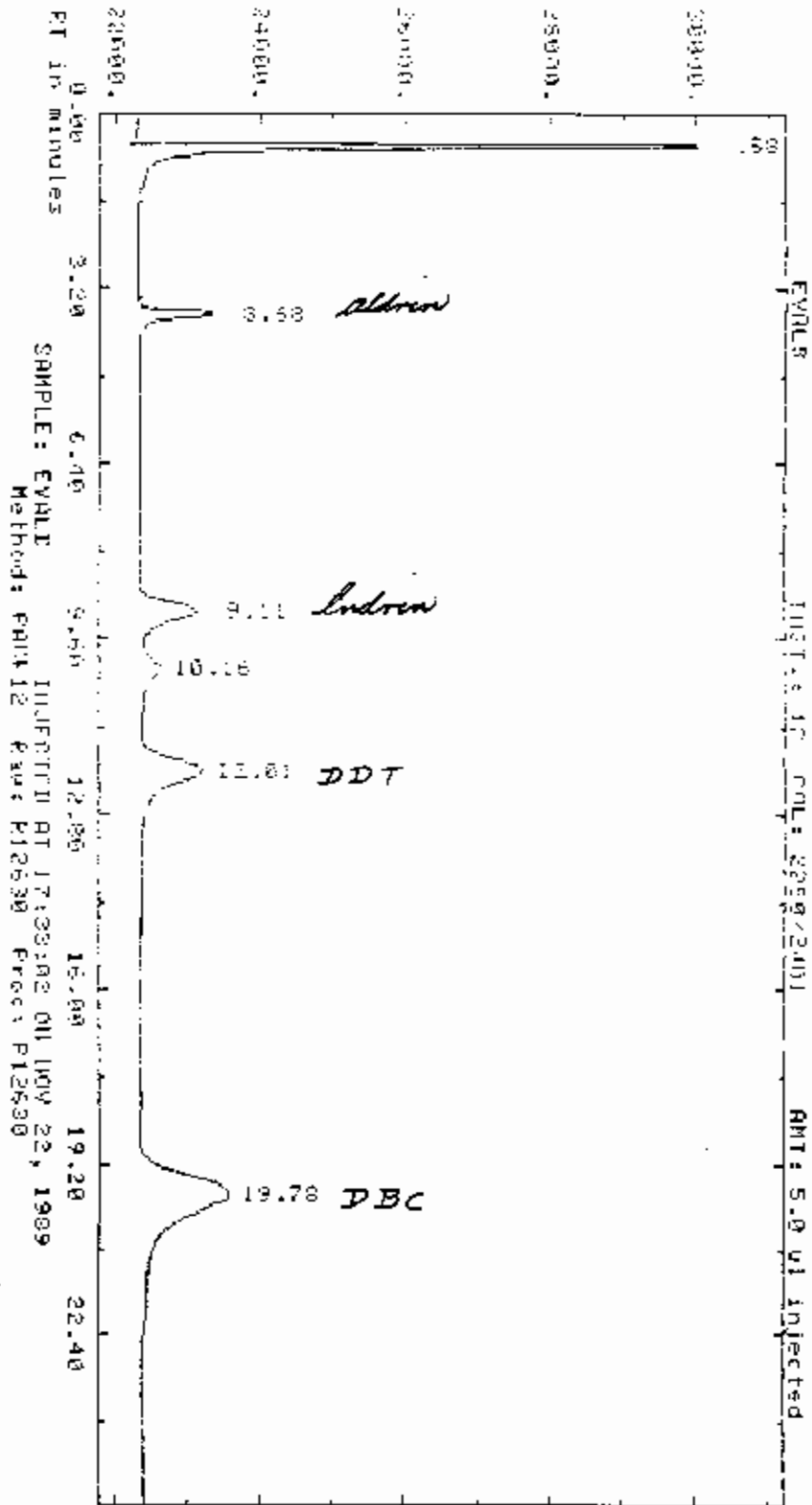
AMPLITUDE x.25 uV-seconds (Enlarged x 4.06)



Report: 12405.00 Channel: 12 EVALB
 Sample: EVALB Injected at 6:46:55 ON NOV 22, 1989
 ZCPO Method: PAK12 Seq: S126126 Subsq/Samp: 1/18 Ptl: 18
 Sl-width MU/Min Delay Bin-Gr Bunch
 .500 .300 0.00 1000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW ZRTW XDi1-f Iso
 NO 0 00 0 .30 5.0 100.00 NO
 Actual run time: 25.508 minutes

RT	TM	Factor	Area	AREA %	Name
.59	0.00	10000E+01	32592.	30.784	BB
.68	0.00	10000E+01	2567.	2.424	BB
3.73	0.00	10000E+01	5229.	4.937	BB
9.20	0.00	10000E+01	8355.	7.889	BB
10.27	0.00	10000E+01	1655.	1.563	BB
12.15	0.00	10000E+01	16976.	16.031	BB
19.99	0.00	10000E+01	38516.	36.372	BB
Total Area = 105897			Total AREA % = 35816.500		
Processed data file: P12610			Raw data file: R12610		

AMPLITUDE 4.35 Microseconds (Exchanged) 0.730



Report: 12407.00 Channel: 10 SCALE

Sample: FV4LE Injected at 12:33.02 ON NOV 22, 1968

ZERO Method: PACK12 Size: 859436 Speed/Samp.: 1730 BU 21

SI-width MU/min Delay Min: An Run:en
.500 .300 0.00 1000 600

Sup-Unk DuT TD-Lvl Ref:RT4 XRTW KD11-F Iso
NO 0.50 0 1.30 5.0 100.00 NO

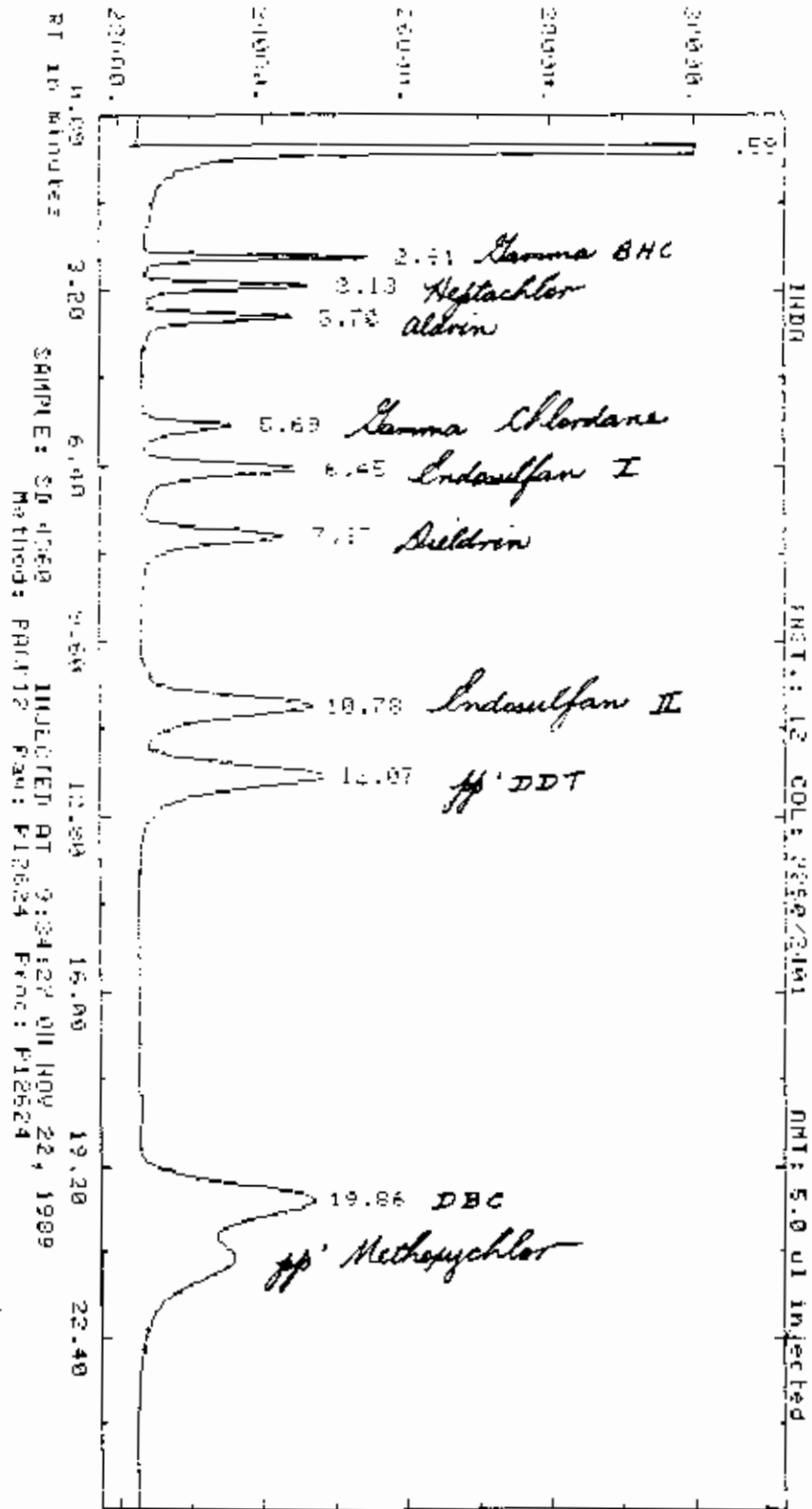
Actual run time: 25.508 minutes

RT	ITH	Factor	Area	AREA %	Name
.58	0.00	1.0000E+01	28520.00	30.182	
3.68	0.00	1.0000E+04	100.00	0.001	
9.11	0.00	1.1000E+01	3000.00	3.165	
10.14	0.00	1.2000E+04	1000.00	1.061	
12.01	0.00	1.0000E+01	1000.00	1.061	
19.78	0.00	1.0000E+04	1000.00	1.061	

Total Area = 94337 Total AREA % = 35418.500

Processed data file: P10170 Raw data file: K124.0

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Report: 12211 00 Channel 12 D:Pa

Sample: SD 43A1 Injected: 11/15/91 01:07:22, 120°C

ZERO Method: PAF12 Sec: 829124 Subq/Sec: 1274 Plot: 12

SI-Unit	Hz/Min	Delay	Min	Event	Event	
.500	300	0.00	1000	Auto		
Sup-Unk	Out	FD-Val	Ref-STM	%TW	200-f	150
NO	0.00	0	.30	5.0	116.00	80

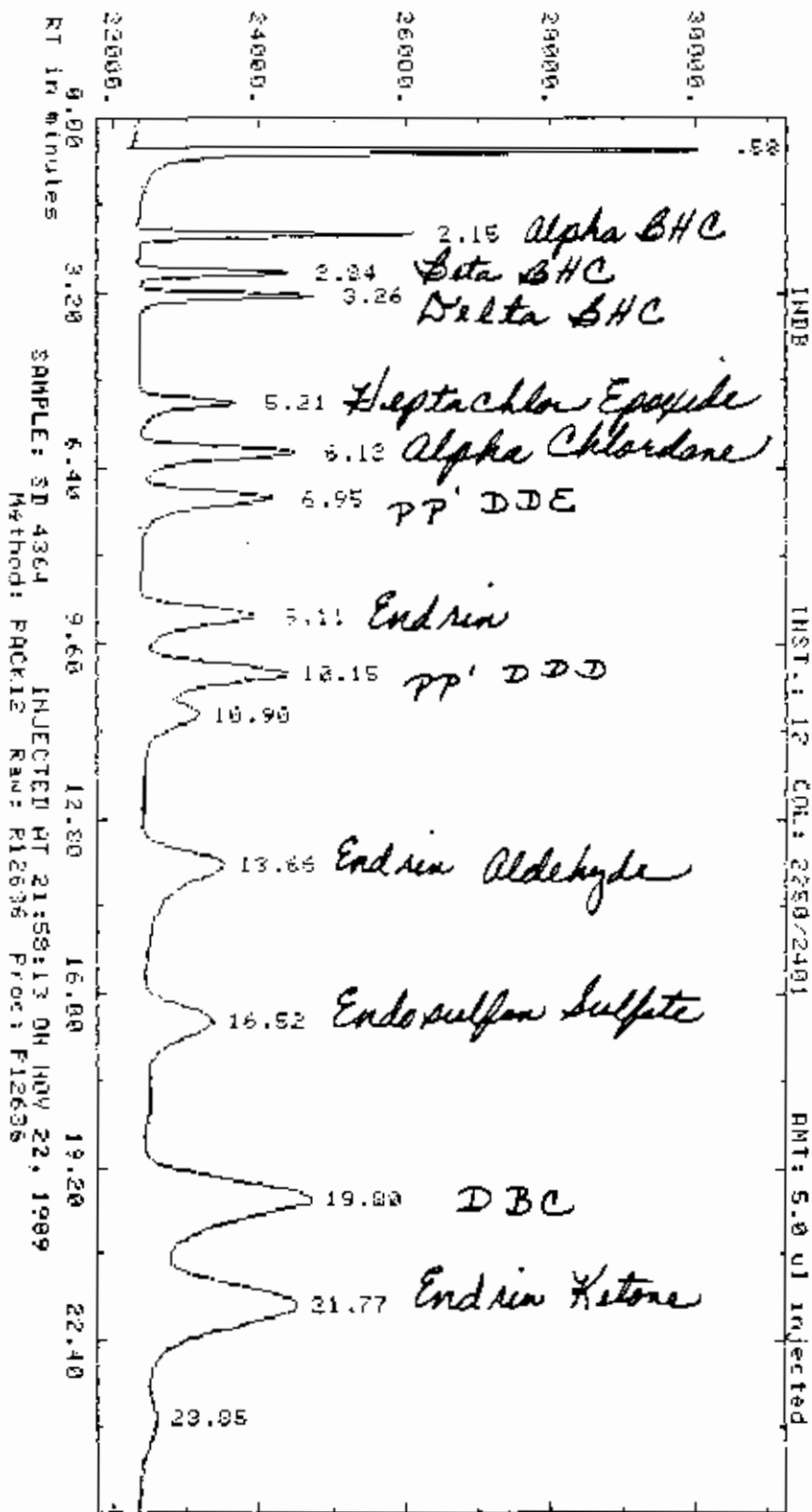
Actual run time: 25 517 minutes

RT	ITM	Factor	Area	Area %	Name
.58	0.00	.10000E+01	2715.00	10.50%	
2.61	0.00	.10000E+01	11011.00	4.32%	
3.13	0.00	.10000E+01	9276.00	4.45%	
3.70	0.00	.10000E+01	11295.00	4.75%	
5.49	0.00	.10000E+01	7000.00	4.16%	
6.49	0.00	.10000E+01	18017.00	5.30%	
7.67	0.00	.10000E+01	11122.00	4.44%	
10.78	0.00	.10000E+01	27315.00	14.14%	
12.07	0.00	.10000E+01	17427.00	12.85%	
19.86	0.00	.10000E+01	34551.00	15.46%	

Total Area = 253595.00 Total AREA % = 14552.000

Processed data file: F12624 Raw data file: Raw624

AMPLITUDE x.25 uV-seconds (Enlarged x 4.59)

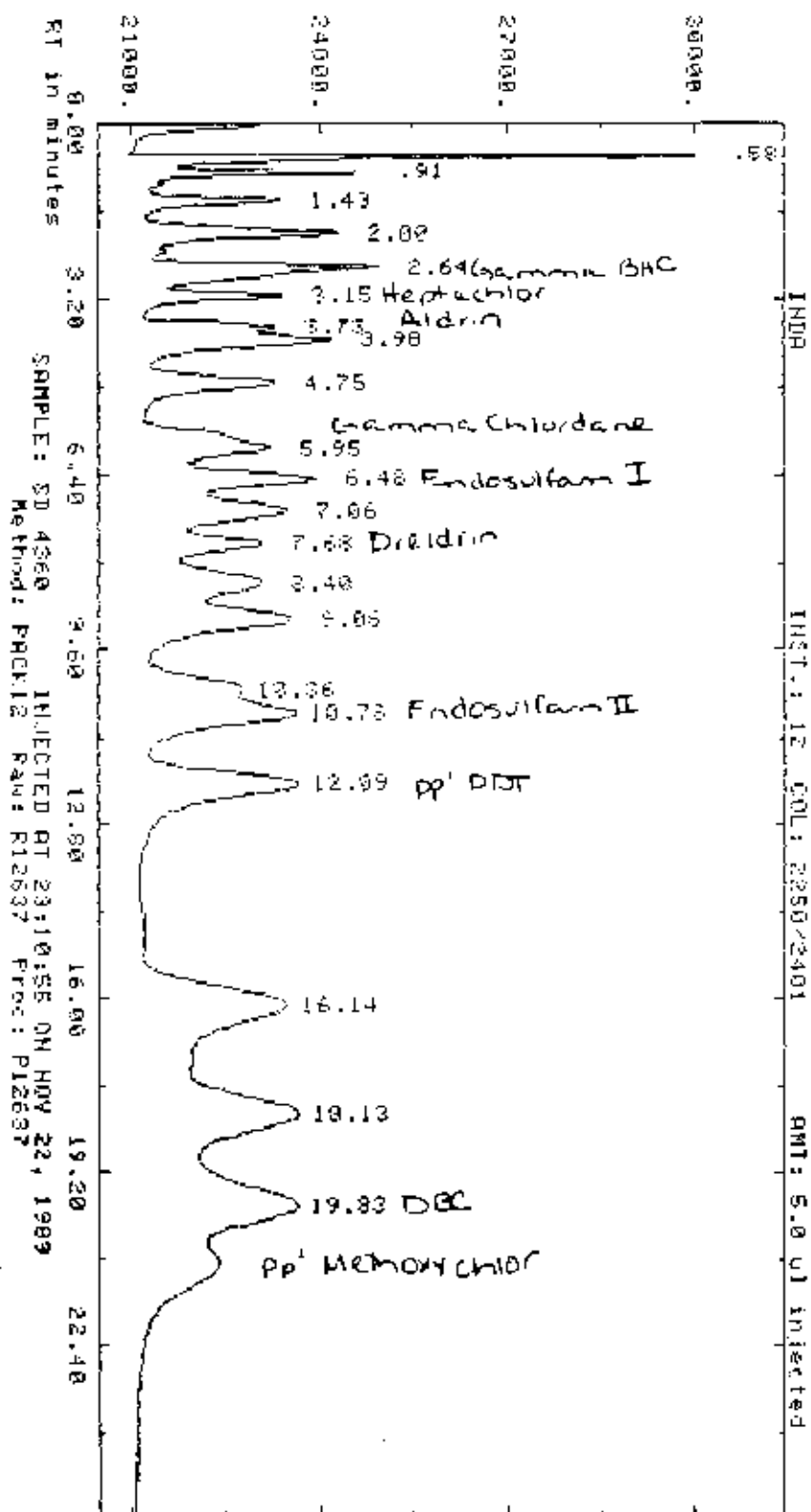


Report: 12433.00 Channel: 12 INDE
 Sample: SD 4364 Injected at 21:58:13 ON NOV 22, 1999
 ZERO Method: PACK12 Seq: SEQ126 Subseq/Samp: 1/36 Btl: 36
 Sl-width 500 MV/Min 300 Delay 0.00 Min-Ar 1000 Bunch Auto
 Sup-Unk NO Det 0.00 ID-Lvl 0 Ref-RTW .30 %RTW 5.0 %dil-f 100.00 Iso RU
 Actual run time: 25.525 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
2.58	0.00	10000E+01	36697.	BB	12.355
3.15	0.00	10000E+01	11536.	BB	3.884
3.84	0.00	10000E+01	7824.	BB	2.634
5.26	0.00	10000E+01	10970.	BB	3.636
5.21	0.00	10000E+01	9581.	BB	3.189
6.42	0.00	10000E+01	17864.	BB	5.745
6.95	0.00	10000E+01	16988.	BB	5.693
9.11	0.00	10000E+01	17376.	BB	5.850
10.15	0.00	10000E+01	21024.	BB	6.745
10.90	0.00	10000E+01	2112.	BB	.711
13.66	0.00	10000E+01	20051.	BB	6.720
16.82	0.00	10000E+01	16227.	BB	5.436
19.80	0.00	10000E+01	51901.	BB	17.473
21.77	0.00	10000E+01	42817.	BB	14.186
23.85	0.00	10000E+01	3185.	BB	1.072

Total Area = 297034. Total AREA % = 3894.750
 Processed data file: P12436 Raw data file: R12436

AMPLITUDE x.25 uV-seconds (Enlarged x 3.18)



Report: 12434.00 Channel: 12 INDA

Sample: SD 4360

Injected at 23:10:55 ON NOV 22, 1989

ZERO Method: PACK12 Seq: SEQ126 Subsq/Samp: 1/37 Ptl: 37

Sl-width MU/Min Delay Min-Ac Runch
.500 .300 0.00 1000 Auto

Sup-Unk Dvt ID-Lvl Ref-RW ZRTU X0:1-F Iso
NO 0.00 0 1.30 5.0 100.00 NO

Actual run time: 25.508 minutes

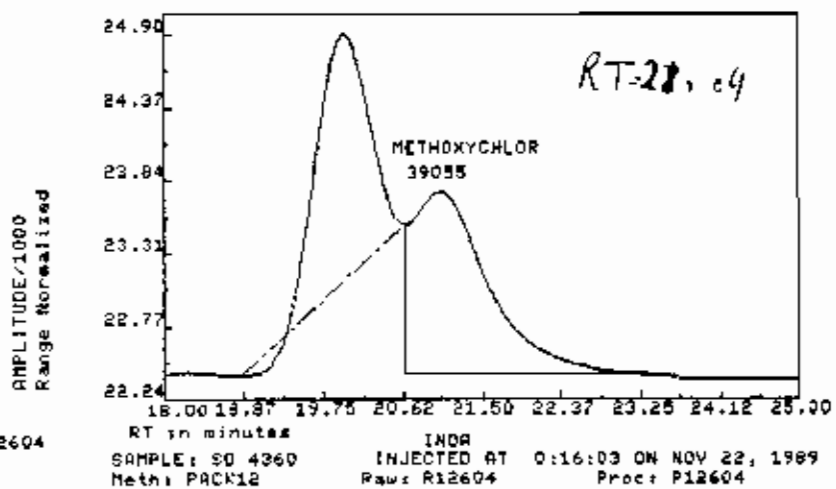
RT	ITM	Factor	Area	AREA %	Name
.58	0.00	.10000E+01	41713	BB	11.135
.91	0.00	.10000E+01	9957	BB	2.645
1.43	0.00	.10000E+01	9374	BB	2.496
2.00	0.00	.10000E+01	16817	BB	4.469
2.61	0.00	.10000E+01	22805	BB	6.059
3.15	0.00	.10000E+01	7666	BB	2.037
3.73	0.00	.10000E+01	1765	BB	.489
3.99	0.00	.10000E+01	8709	BB	2.357
4.75	0.00	.10000E+01	16884	BB	4.484
5.25	0.00	.10000E+01	17646	BB	4.688
5.48	0.00	.10000E+01	13730	BB	3.648
7.06	0.00	.10000E+01	14309	BB	3.802
7.68	0.00	.10000E+01	9556	BB	2.539
8.49	0.00	.10000E+01	12210	BB	3.284
9.06	0.00	.10000E+01	15472	BB	4.177
10.56	0.00	.10000E+01	1109	BB	.294
10.78	0.00	.10000E+01	12764	BB	3.444
12.89	0.00	.10000E+01	40468	BB	10.731
16.14	0.00	.10000E+01	34923	BB	9.278
18.13	0.00	.10000E+01	33996	BB	9.032
19.83	0.00	.10000E+01	30905	BB	8.211

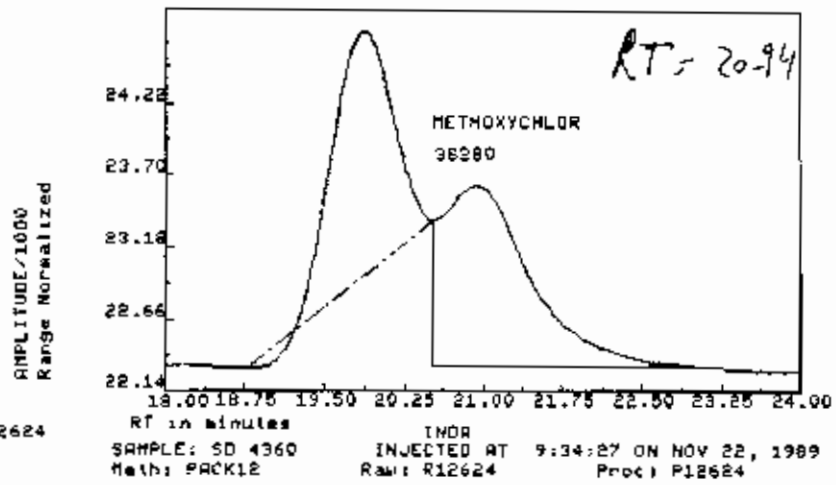
Total Area = 376403.

Total AREA % = 30985.509

Processed data file P12637

Raw data file: R12637





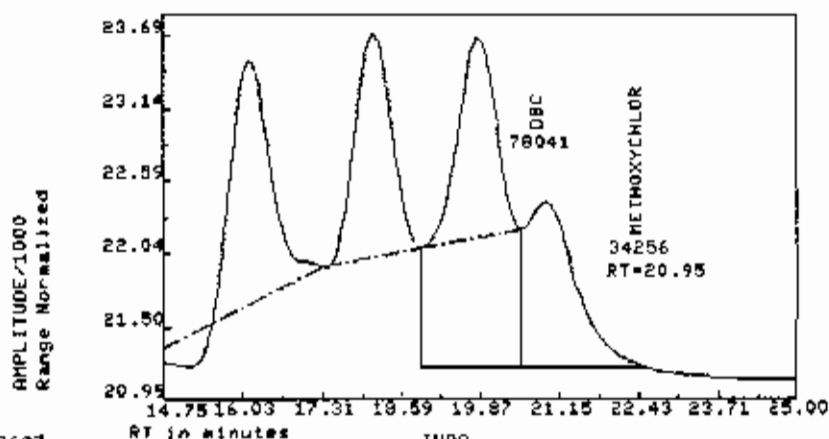
RESULTS OF MANUAL INTEGRATION FROM C/PLOT

RAW DATA FILE: R12637:125

INJECTED AT: 23:10:55 ON NOV 22, 1989

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	20.55	22.49	34256	30.5
2	18.91	20.55	78041	69.5



P12637

SAMPLE: 90 4360 INDA INJECTED AT 23:10:55 ON NOV 22, 1989
Meth: PAK12 Raw: R12637:125 Proc: P12637

**PESTICIDE
DATA
FOR
SECTION
I**

STANDARD COMPOUND CONCENTRATIONS

STD INDA	CONC(ug/ml)
Gamma BHC	0.010
Heptachlor	0.010
Aldrin	0.010
Gamma Chlordane	0.010
Endosulfan I	0.010
Dieldrin	0.020
Endosulfan II	0.040
pp' DDT	0.050
pp' Methoxychlor	0.10

STD INDB	CONC(ug/ml)
Alpha BHC	0.010
Beta BHC	0.020
Delta BHC	0.010
Heptachlor Epoxide	0.010
Alpha Chlordane	0.020
pp' DDE	0.020
Endrin	0.040
pp' DDD	0.040
Endrin Aldehyde	0.040
Endosulfan Sulfate	0.040
Endrin Ketone	0.10

MULTICOMPONENT STANDARDS

AR1550	1016	0.30
	1250	0.30
AR1221		1.0
AR1232		0.70
AR1242		0.40
AR1248		0.40
AR1254		0.30
TOXAPH		1.0

EVALUATION MIX STANDARDS

COMPOUND	EVALA	EVALB	EVALC
Aldrin	0.0020	0.0050	0.010
Endrin	0.0000	0.020	0.040
DDT	0.0125	0.030	0.050
DGC	0.020	0.050	0.10

SEQUENCE NAME - SEQ126

CALIB. STD LOT 2250/2401

L.U. REF 15

CHANNEL # 1

DATE STARTED

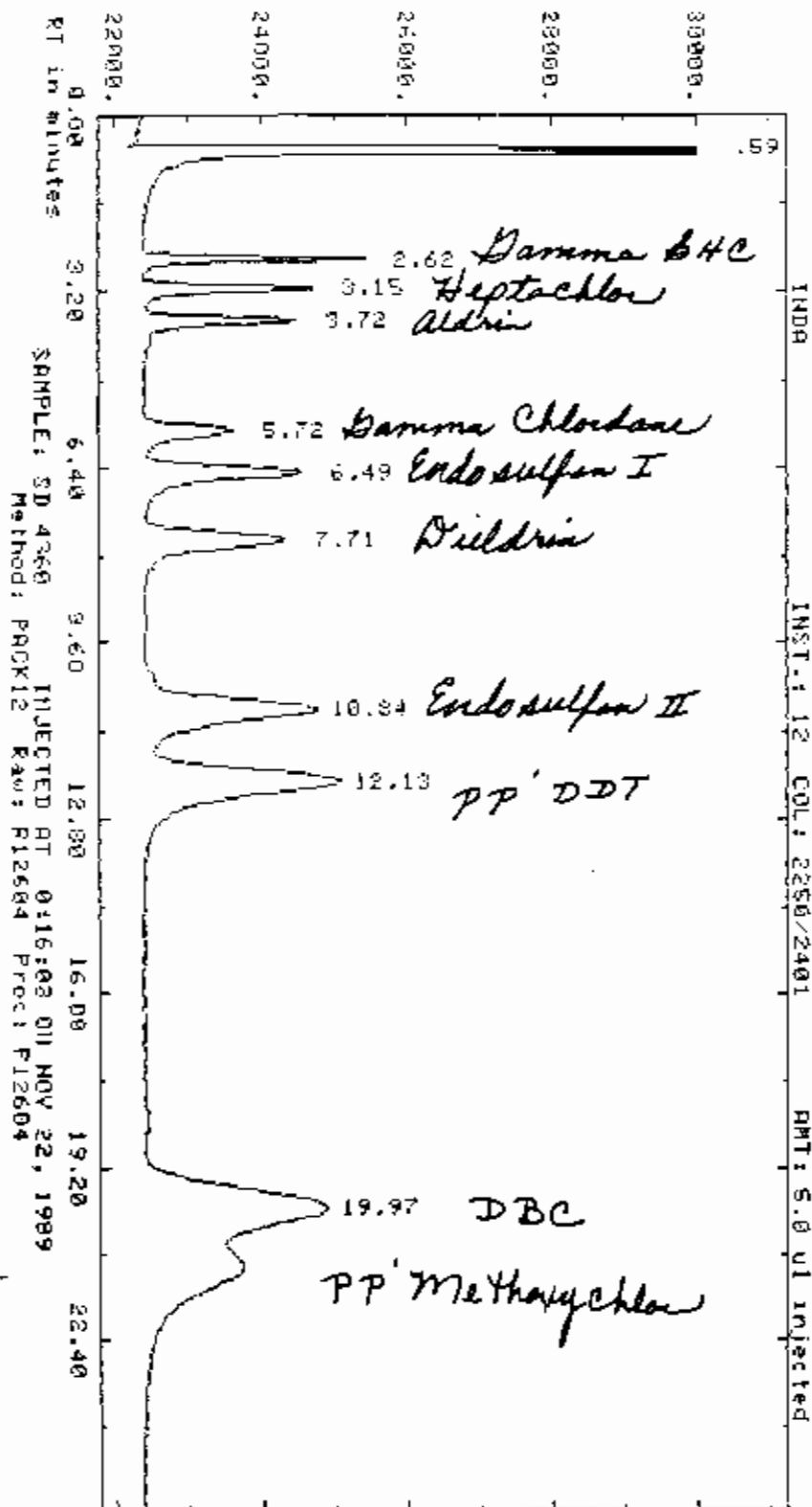
INSTRUMENT # 01

DATE FINISHED

TYPE(S) OF ANALYSIS PEST

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
EVALA	01	EVALA		20:33:36 ON NOV 21, 1989
EVALB	02	EVALB		21:03:18 ON NOV 21, 1989
EVALC	03	EVALC		21:31:14 ON NOV 21, 1989
SD 4360	04	INDA		0:16:03 ON NOV 22, 1989
SD 4364	05	INDB		0:43:58 ON NOV 22, 1989
SD TOXA	06	TOXAPH		1:11:53 ON NOV 22, 1989
SD ARMX	07	AR1660		1:39:48 ON NOV 22, 1989
SD 1221	08	AR1221		2:07:44 ON NOV 22, 1989
SD 1232	09	AR1232		2:35:39 ON NOV 22, 1989
SD 1242	10	AR1242		3:03:34 ON NOV 22, 1989
SD 1248	11	AR1248		3:31:29 ON NOV 22, 1989
SD 1254	12	AR1254		3:59:24 ON NOV 22, 1989
PP 300767RBS	13	18358 1	BS	4:27:19 ON NOV 22, 1989
PP ALUM BK63	14			4:55:15 ON NOV 22, 1989
PP 303249 B1	15	18410 1	PBLK23	5:23:10 ON NOV 22, 1989
PP 301901 SS	16	18410 1	738001-07ME	5:51:05 ON NOV 22, 1989
PP 301902 SS	17	18410 1	738001-07MSD	6:19:00 ON NOV 22, 1989
EVALB	18	EVALB		6:46:55 ON NOV 22, 1989
PP 301903 BS	19	18410 1	BS	7:14:51 ON NOV 22, 1989
PP 302881 B2	20	18410 5	PBLK26	7:42:46 ON NOV 22, 1989
PP 302880 B1	21	18410 5	PBLK25	8:10:41 ON NOV 22, 1989
PP 302182	22	18410 5	738001-23	8:38:36 ON NOV 22, 1989
PP 302176	23	18410 5	738001-24	9:06:31 ON NOV 22, 1989
SD 4360	24	INDA		9:34:27 ON NOV 22, 1989
PP 302168	25	18410 5	738001-21	10:02:22 ON NOV 22, 1989
PP 303371 B2	26	18358 1	PBLK40	12:12:29 ON NOV 22, 1989
CP 302177	27	18427 1	SOIL-FB-1	13:08:20 ON NOV 22, 1989
CP 303370 B1	28	18427 1	PBLK39	14:32:05 ON NOV 22, 1989
PP 303466 B1	29	17603 990	PBLK41	15:00:00 ON NOV 22, 1989
EVALB	30	EVALB		17:33:02 ON NOV 22, 1989
PP 303220 O	31	17603 990	09SD901X4	18:22:44 ON NOV 22, 1989
PP 303467 B2	32	17603 990	PBLK42	18:50:39 ON NOV 22, 1989
PP 303221 SS	33	17603 990	09SD901X4MS	19:18:35 ON NOV 22, 1989
PP 303222 BS	34	17603 990	09SD901X4MSD	19:46:30 ON NOV 22, 1989

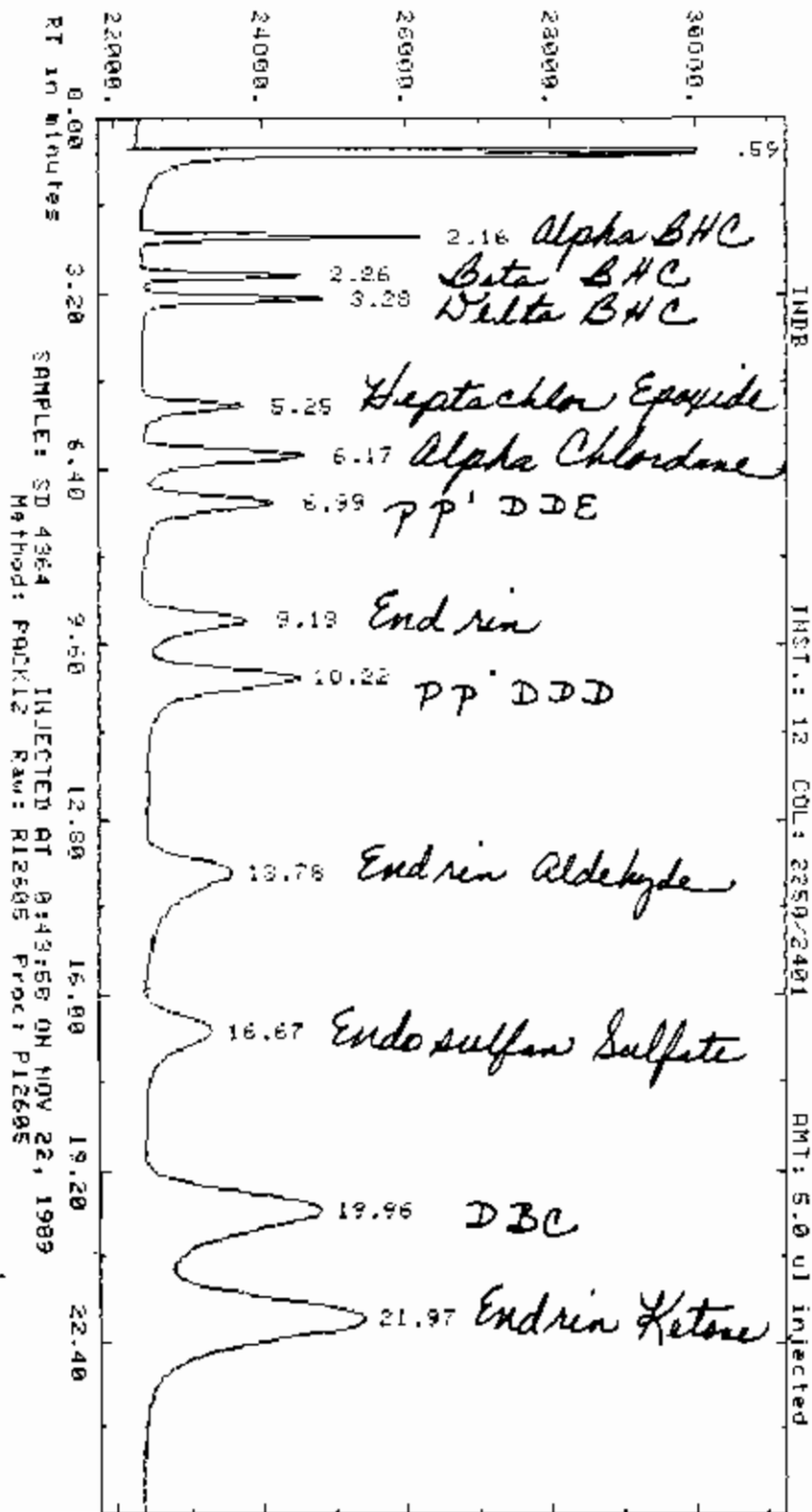
AMPLITUDE x.25 uV-seconds (Enlarged x 3.46)



Report: 12391.00 Channel: 12 INPA
 Sample: SD 4360 Injected at 0-16:03 ON NOV 22, 1992
 ZERO Method: P0CK12 Seq: SEQ126 Subsq/Samp: 1/ 4 L11: 4
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 1000 Auto
 Sup-Link DvT ID-Lvl Ref-KTW XRTW XDil-F Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 25.503 minutes

RT	ITM	Factor	Area	AREA %	Name
.59	0.00	.10000E+01	28164. BB	12.635	
2.62	0.00	.10000E+01	11934. BB	5.039	
3.15	0.00	.10000E+01	10324. BB	4.715	
3.72	0.00	.10000E+01	11293. BB	5.158	
5.72	0.00	.10000E+01	9048. BB	4.132	
6.49	0.00	.10000E+01	16711. BB	6.949	
7.71	0.00	.10000E+01	20295. BB	8.246	
10.84	0.00	.10000E+01	33093. BB	15.114	
12.13	0.00	.10000E+01	42100. BB	19.238	
19.97	0.00	.10000E+01	35004. BB	15.987	
Total Area =			218956.	Total AREA % = 3004.250	
Processed data file: P12604			Raw data file: R12604		

AMPLITUDE 0.25 uV-seconds (Enlarged x 4.23)



Report: 12392.00 Channel: 12 INDB

Sample: SD 4304 Injected at 0:43:58 ON NOV 22, 1989

ZERO Method: PAK12 Seq: SEQ126 Subsq/Samp: 1/ 5 Prt: 5

Sl-width HV/Min Delay Min-Ar Bench
.500 .300 0.00 1.000 Auto

Sup-Unk EvT ID-Lvl Ref-RTW ZRTW ZDil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 25.517 minutes

RT	ITH	Factor	Area	AREA %	Name
.59	0.00	1.0000E+01	34660.	10.750	BB
2.16	0.00	1.0000E+01	11766.	3.632	BB
2.86	0.00	1.0000E+01	8170.	2.521	BB
4.28	0.00	1.0000E+01	10935.	3.375	BB
5.25	0.00	1.0000E+01	9876.	3.036	BB
6.17	0.00	1.0000E+01	17839.	5.506	BB
6.99	0.00	1.0000E+01	16106.	4.971	BB
9.18	0.00	1.0000E+01	15332.	4.732	BB
10.22	0.00	1.0000E+01	28471.	8.787	BB
13.78	0.00	1.0000E+01	28601.	8.827	BB
15.67	0.00	1.0000E+01	18589.	5.737	BB
19.96	0.00	1.0000E+01	34134.	10.569	BB
21.97	0.00	1.0000E+01	69221.	21.510	BB

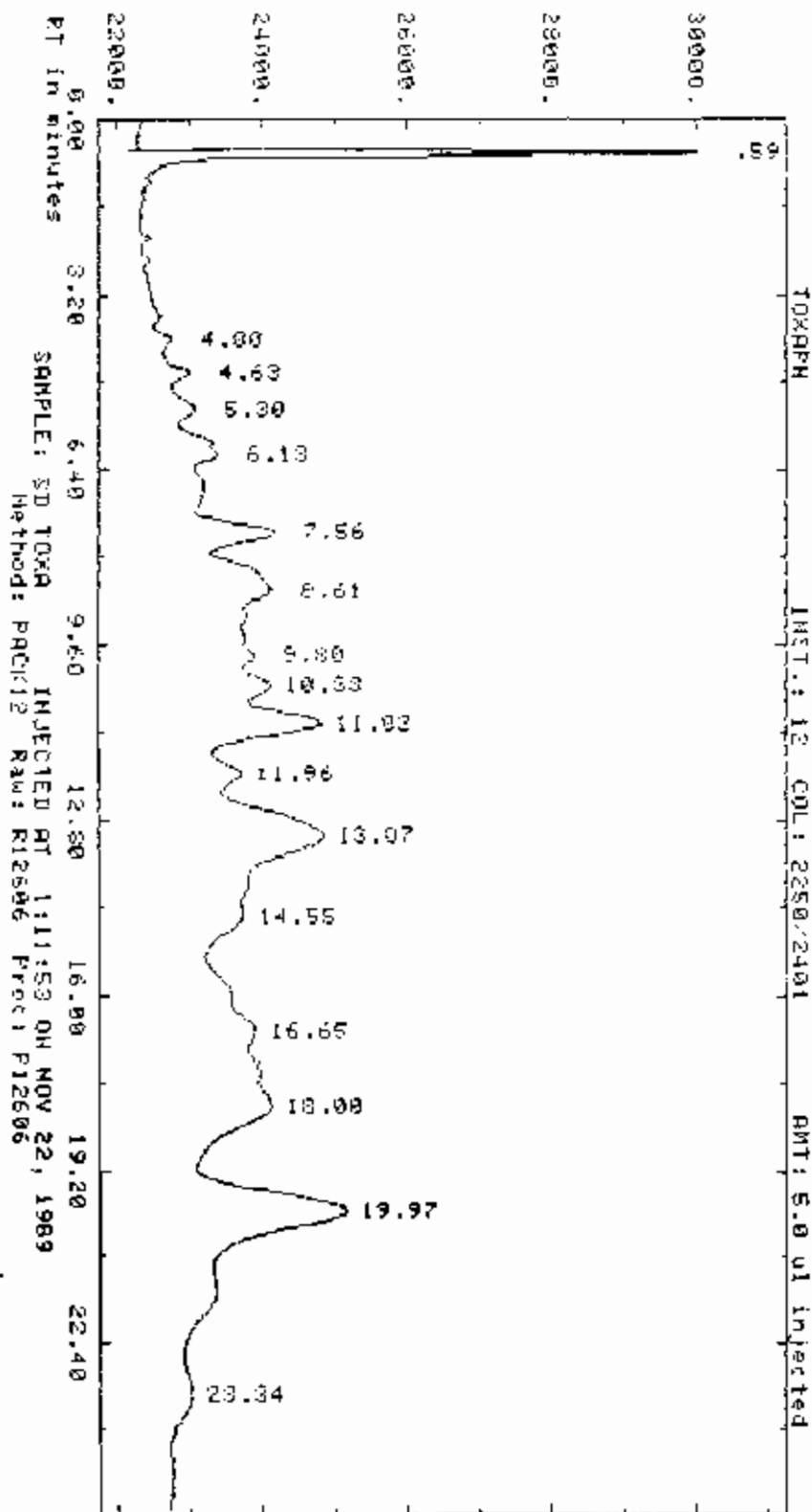
Total Area = 324011

Total AREA % = 69221.500

Processed data file: P12605

Raw data file: R12605

AMPLITUDE x.25 uV-seconds (Enlarged x 3.17)



Report: 12393.00 Channel: 12

TOXAPH

Sample: 50 TOXA

Injected at 1:11:53 ON NOV 22, 1989

ZERO Method: PACK12

Seq

SEQS26

Subseq/Samp: 1/ 6

B+1: 6

Sl-width
500

HV/Min
.300

Delay
0.00

Min-Ar
1000

Bunch
Auto

Sup-Unk
NO

DyT
0.00

ID-Lvl
0

Ref-RTW
.30

%RTW
5.0

%Off-f
100.00

Iso
NO

Actual run time: 25.517 Minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.59	0.00	.10000E+01	28150.	14.766	BB
4.00	0.00	.10000E+01	1128.	.591	BB
4.63	0.00	.10000E+01	1848.	.930	BB
5.30	0.00	.10000E+01	2519.	1.321	BB
6.13	0.00	.10000E+01	5267.	2.763	BB
7.56	0.00	.10000E+01	10302.	5.404	BB
8.61	0.00	.10000E+01	10253.	5.378	BB
9.80	0.00	.10000E+01	1095.	.527	BB
10.33	0.00	.10000E+01	3150.	1.657	BB
11.02	0.00	.10000E+01	15586.	8.175	BB
11.96	0.00	.10000E+01	3639.	1.909	BB
13.07	0.00	.10000E+01	37643.	19.822	BB
14.55	0.00	.10000E+01	1782.	.935	BB
16.65	0.00	.10000E+01	4469.	2.344	BB
18.00	0.00	.10000E+01	19534.	10.277	BB
19.97	0.00	.10000E+01	44792.	23.495	BB
23.34	0.00	.10000E+01	4489.	2.355	BB

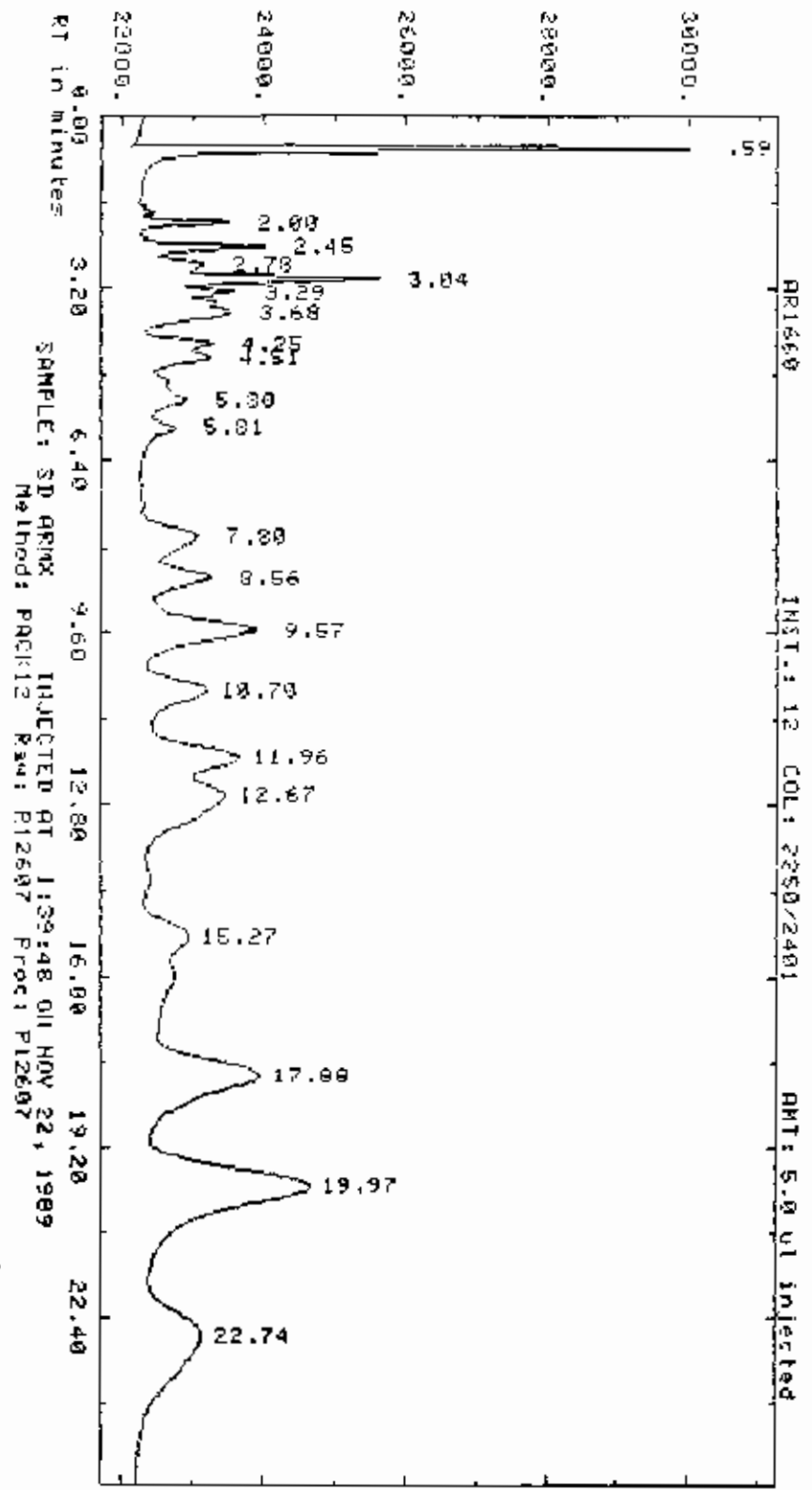
Total Area = 196643.

Total AREA % = 4469.000

Processed data file: P12606

Raw data file: R12606

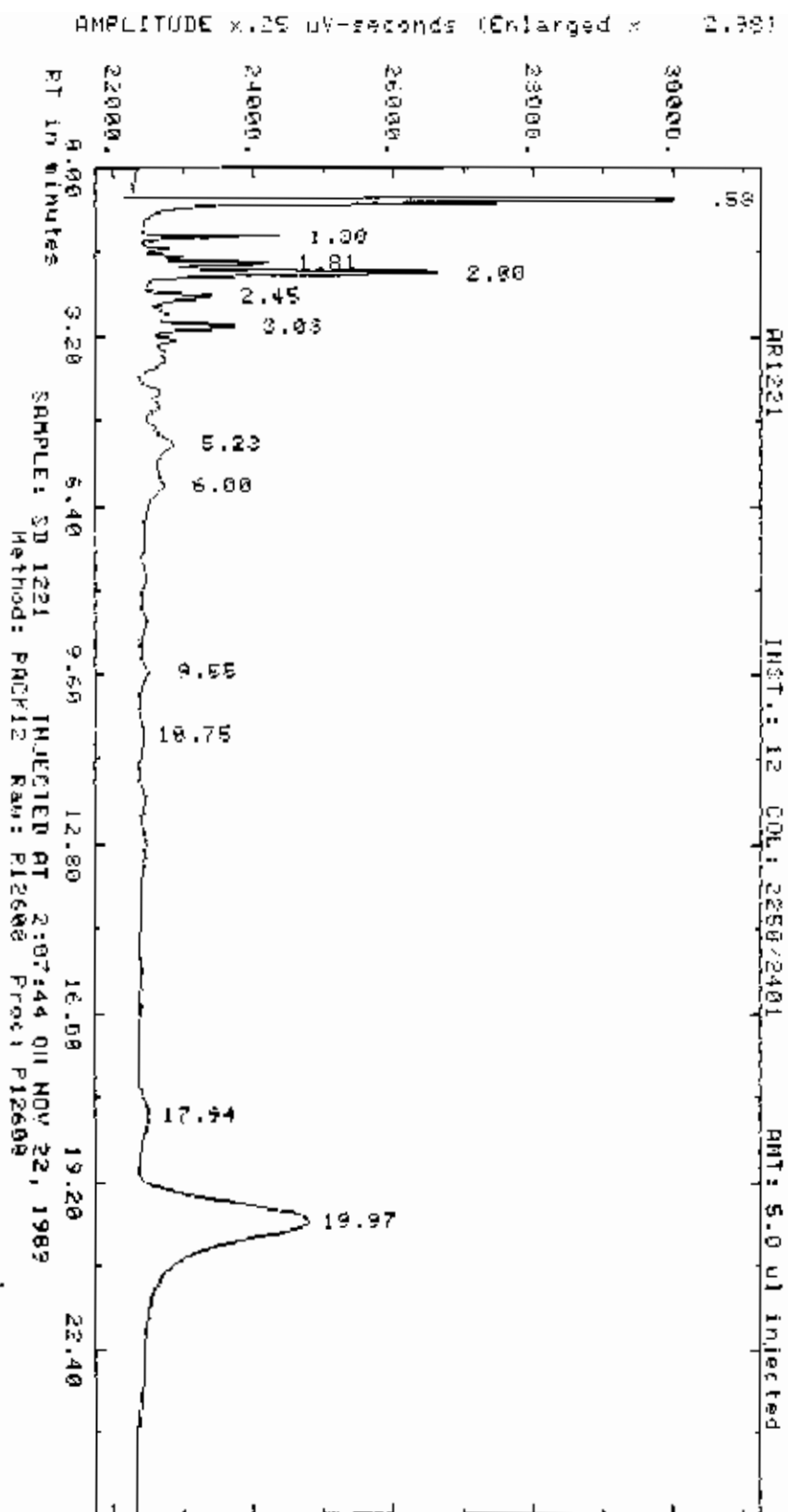
AMPLITUDE x.25 uV-seconds (Enlarged x 3.51)



Report: 12394.00 Channel: 12 AR1660
 Sample: SD ARMX Injected at 1:39:48 ON NOV 22, 1989
 ZERO Method: P0CK12 Seq: 8E0126 Subsq/Samp: 1/ 7 Bti: 7
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 1.000 Auto
 Sup-Unk DvT 1D-Lvl Ref-RTW %RTW XDil-f Iso
 NO 0.00 0 30 5.0 100.00 NO
 Actual run time: 25.508 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
0.59	0.00	.10000E+01	28551.	10.944	BB
0.00	0.00	.10000E+01	3834.	1.470	BB
1.45	0.00	.10000E+01	5472.	2.098	BB
1.78	0.00	.10000E+01	1628.	.624	BB
1.04	0.00	.10000E+01	7947.	3.013	BB
1.39	0.00	.10000E+01	2030.	.778	BB
1.68	0.00	.10000E+01	2693.	1.032	BB
1.44	0.00	.10000E+01	2822.	.652	BB
1.51	0.00	.10000E+01	2031.	.778	BB
1.30	0.00	.10000E+01	2674.	.995	BB
1.01	0.00	.10000E+01	2452.	.940	BB
1.00	0.00	.10000E+01	8003.	3.068	BB
1.26	0.00	.10000E+01	7646.	2.901	BB
1.57	0.00	.10000E+01	19272.	7.388	BB
10.70	0.00	.10000E+01	11326.	4.342	BB
11.96	0.00	.10000E+01	10341.	3.964	BB
11.67	0.00	.10000E+01	10635.	4.077	BB
13.87	0.00	.10000E+01	5491.	2.105	BB
17.88	0.00	.10000E+01	13470.	5.030	BB
19.97	0.00	.10000E+01	59402.	22.847	BB
22.74	0.00	.10000E+01	32231.	12.335	BB

Total Area = 260271. Total AREA % = 32231.000
 Processed data file: P12607 Raw data file: R12607



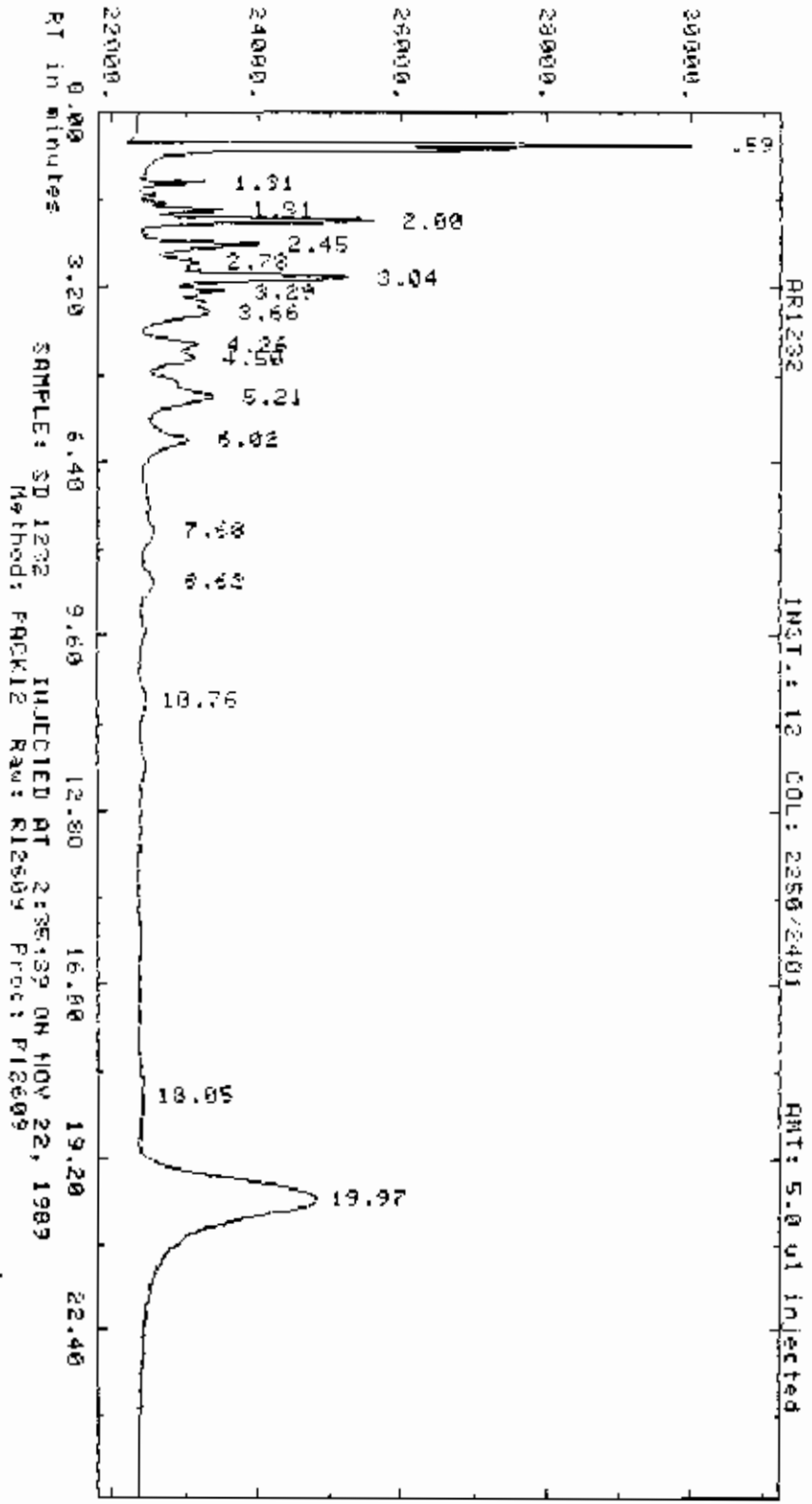
Report: 12395.00 Channel: 12 AR1221
 Sample: SD 1221 Injected at 2:07:44 ON NOV 22, 1989
 ZERO Method: PACK12 Seq: SEDI26 Subsq/Samp: 1/ 8 St1: 8
 Sl-width 500 MV/Min 300 Delay 0.00 Min-Ac 1.000 Bunch Auto
 Sup-Link NO DvT 0.00 ID-Lvl 0 Ref-RTM .30 ZRTW 5.0 %Dil-f 100.00 Iso NO
 Actual run time: 25.525 minutes

RT	ITM	Factor	Area	AREA %	Name
.58	0.00	.10000E+01	25622.	BB	19.405
1.30	0.00	.10000E+01	3065.	BB	2.941
1.81	0.00	.10000E+01	2933.	BB	2.145
2.09	0.00	.10000E+01	11775.	BB	9.910
2.45	0.00	.10000E+01	3514.	BB	2.737
3.03	0.00	.10000E+01	3847.	BB	2.914
5.23	0.00	.10000E+01	3051.	BB	2.311
6.00	0.00	.10000E+01	1587.	BB	1.202
9.55	0.00	.10000E+01	1373.	BB	1.040
10.75	0.00	.10000E+01	1171.	BB	.887
17.94	0.00	.10000E+01	3141.	BB	2.379
19.97	0.00	.10000E+01	70141.	BB	53.122

Total Area = 132032. Total AREA % = 70141.000

Processed data file: P12609 Raw data file: R12608

AMPLITUDE x.25 uV-seconds (Enlarged x 2.97)

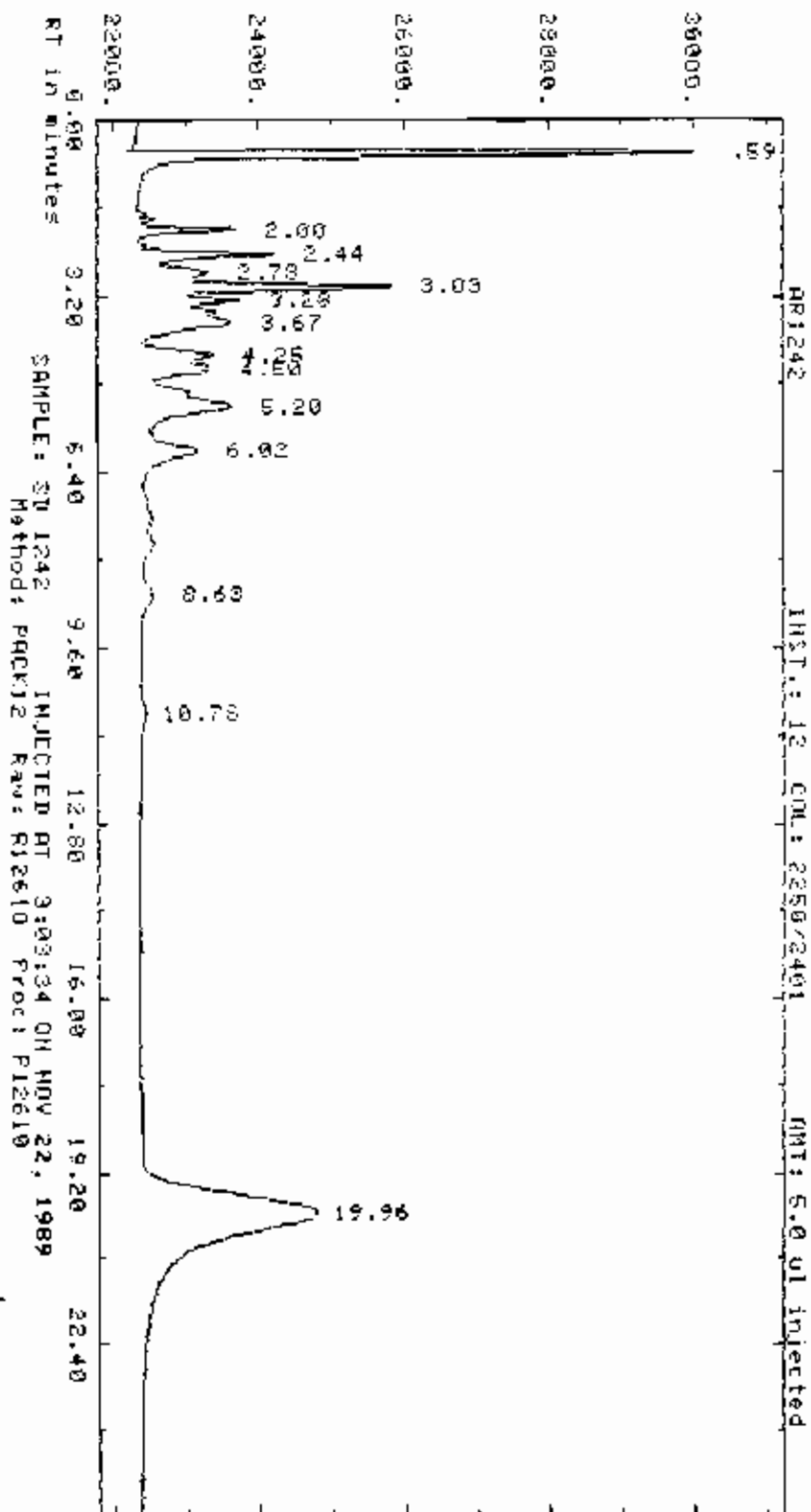


Report: 12396.00 Channel: 12 AP1232
 Sample: SD 1232 Injected at 2:35:39 ON NOV 22, 1989
 ZERO Method: PACK12 Seq: SEQ126 Subseq/Samp: 1/ 9 Bvl 9
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 1000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW ZRTW ZDil-f Iso
 NO 0.00 0 0.30 5.0 100.00 NO
 Actual run time: 25.508 minutes

RT	ITM	Factor	Area	AREA %	Name
.59	0.00	.10000E+01	23950.	BB	15.708
1.31	0.00	.10000E+01	1755.	BB	1.157
1.81	0.00	.10000E+01	1745.	BB	1.150
3.00	0.00	.10000E+01	9660.	BB	6.368
3.43	0.00	.10000E+01	5306.	BB	3.550
3.78	0.00	.10000E+01	1755.	BB	1.157
3.94	0.00	.10000E+01	8411.	BB	5.545
3.29	0.00	.10000E+01	1738.	BB	1.176
3.66	0.00	.10000E+01	1472.	BB	.970
4.28	0.00	.10000E+01	1725.	BB	1.137
4.50	0.00	.10000E+01	1384.	BB	.919
5.21	0.00	.10000E+01	8279.	BB	5.417
5.82	0.00	.10000E+01	5174.	BB	3.411
7.68	0.00	.10000E+01	1244.	BB	.820
8.62	0.00	.10000E+01	1965.	CB	1.295
10.76	0.00	.10000E+01	1384.	BB	.912
18.05	0.00	.10000E+01	1713.	BB	1.129
19.97	0.00	.10000E+01	72354.	BB	47.695

Total Area = 151700. Total AREA % = 72354.000
 Processed data file: P12609 Raw data file: R12609

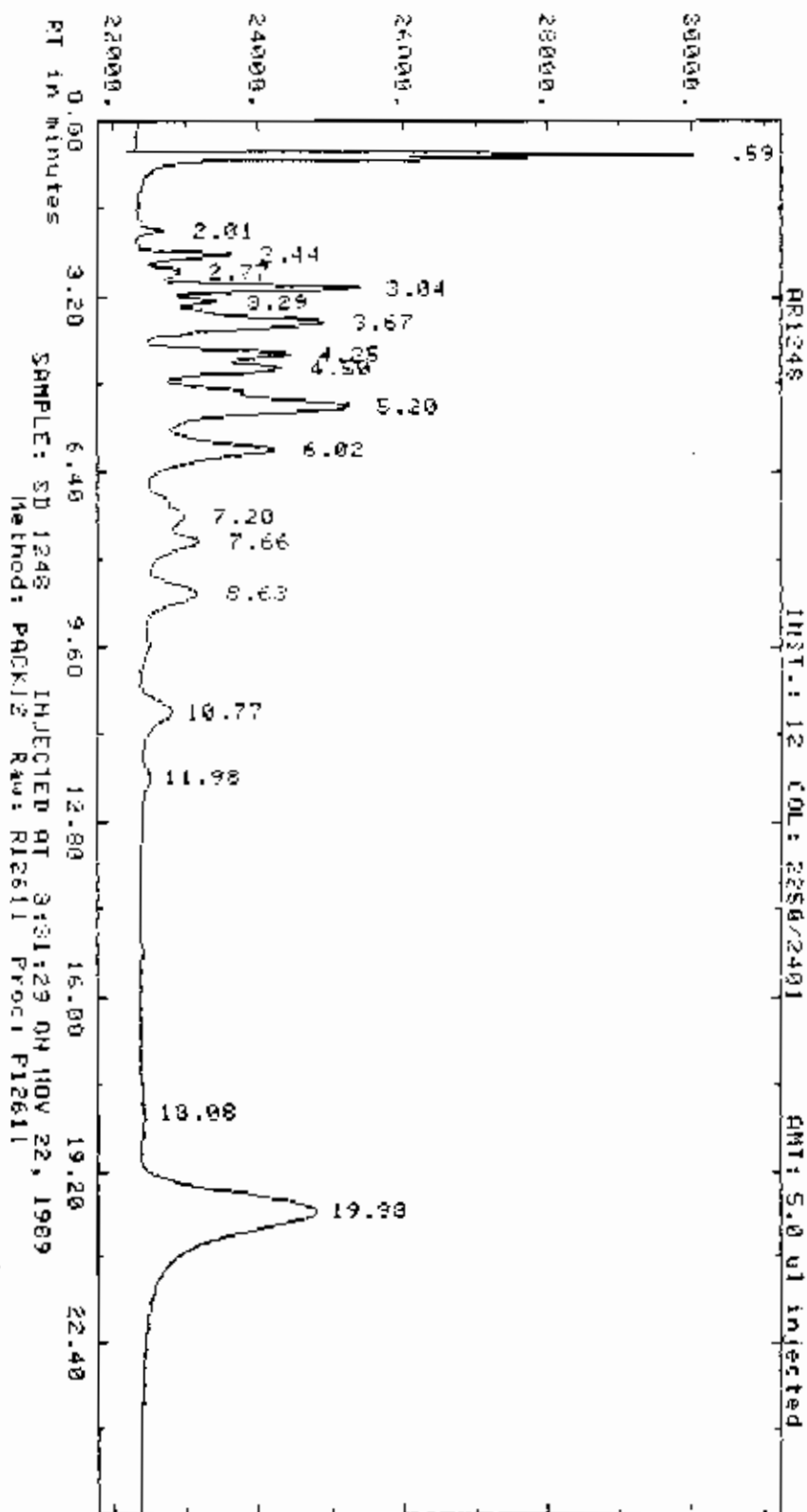
AMPLITUDE x.25 uV-seconds (Enlarged x 2.25)



Report: 12397.00 Channel: 12 AR1242
 Sample: SD 1242 Injected at 3:03:34 PM NOV 22, 1989
 ZEPD Method: PACK12 Seq: SEQ126 Subseq/Samp: 1/10 Btl: 10
 Sl-width 500 MV/Min .300 Delay 0.00 Min-Hr 1.000 Bunch Auto
 Sup-Unk NO DvT 0.00 ID-Lvl 0 Ref-RTW .30 %RTW 5.0 %Dil-f 100.00 Iso NO
 Actual run time: 25.517 minutes

RT	ITH	Factor	Area	AREA %	Name
0.59	0.00	.10000E+01	23559.	15.832	BB
0.90	0.00	.10000E+01	4085.	2.745	BB
1.44	0.00	.10000E+01	5805.	3.901	BB
1.79	0.00	.10000E+01	1751.	1.177	BB
2.03	0.00	.10000E+01	10217.	6.866	BB
2.29	0.00	.10000E+01	2070.	1.405	BB
2.57	0.00	.10000E+01	2620.	1.761	BB
2.85	0.00	.10000E+01	2241.	1.506	BB
3.50	0.00	.10000E+01	2125.	1.428	BB
4.20	0.00	.10000E+01	11720.	7.826	BB
6.02	0.00	.10000E+01	6261.	4.208	BB
8.63	0.00	.10000E+01	1820.	1.223	BB
10.78	0.00	.10000E+01	1200.	.806	BB
19.78	0.00	.10000E+01	73310.	49.267	BB
Total Area =		148902.	Total AREA % =		73310.000
Processed data file: P12610			Raw data file: R12610		

AMPLITUDE x.25 uV-seconds (Enlarged x 3.52)



Report: 12398.00 Channel: 12

AR1246

Sample: SD 1248

Injected at 3:31:29 ON NOV 22, 1989

ZERO Method: PACK12

Seq: SEQ126

Subsq/Samp: 1/11

Rvl 11

Sl-Width	WV/Min	Delay	Min-Ar	Bunch
.500	.300	0.00	1000	Auto

Sup-Unk	DvT	ID-Lvl	Ref-RTW	%RTW	%Dil-f	Isr
NO	0.00	0	.30	5.0	100.00	NO

Actual run time: 25.517 minutes

RT	ITM	Factor	Area	AREA %	Name
1.57	0.00	.10000E+01	20705.	13.665	BB
2.01	0.00	.10000E+01	1067.	.604	BB
2.44	0.00	.10000E+01	4022.	1.901	BB
2.77	0.00	.10000E+01	1298.	.614	BB
3.04	0.00	.10000E+01	9663.	4.568	BB
3.29	0.00	.10000E+01	1566.	.740	BB
3.67	0.00	.10000E+01	16752.	7.730	BB
4.25	0.00	.10000E+01	5292.	2.502	BB
4.50	0.00	.10000E+01	4548.	2.153	BB
5.20	0.00	.10000E+01	27246.	12.800	BB
6.02	0.00	.10000E+01	15579.	7.361	BB
7.20	0.00	.10000E+01	3016.	1.520	BB
7.66	0.00	.10000E+01	3010.	1.501	BB
8.63	0.00	.10000E+01	9310.	3.928	BB
10.77	0.00	.10000E+01	6054.	2.362	BB
11.98	0.00	.10000E+01	1144.	.541	BB
18.08	0.00	.10000E+01	1257.	.594	BB
19.98	0.00	.10000E+01	72213.	34.138	BB

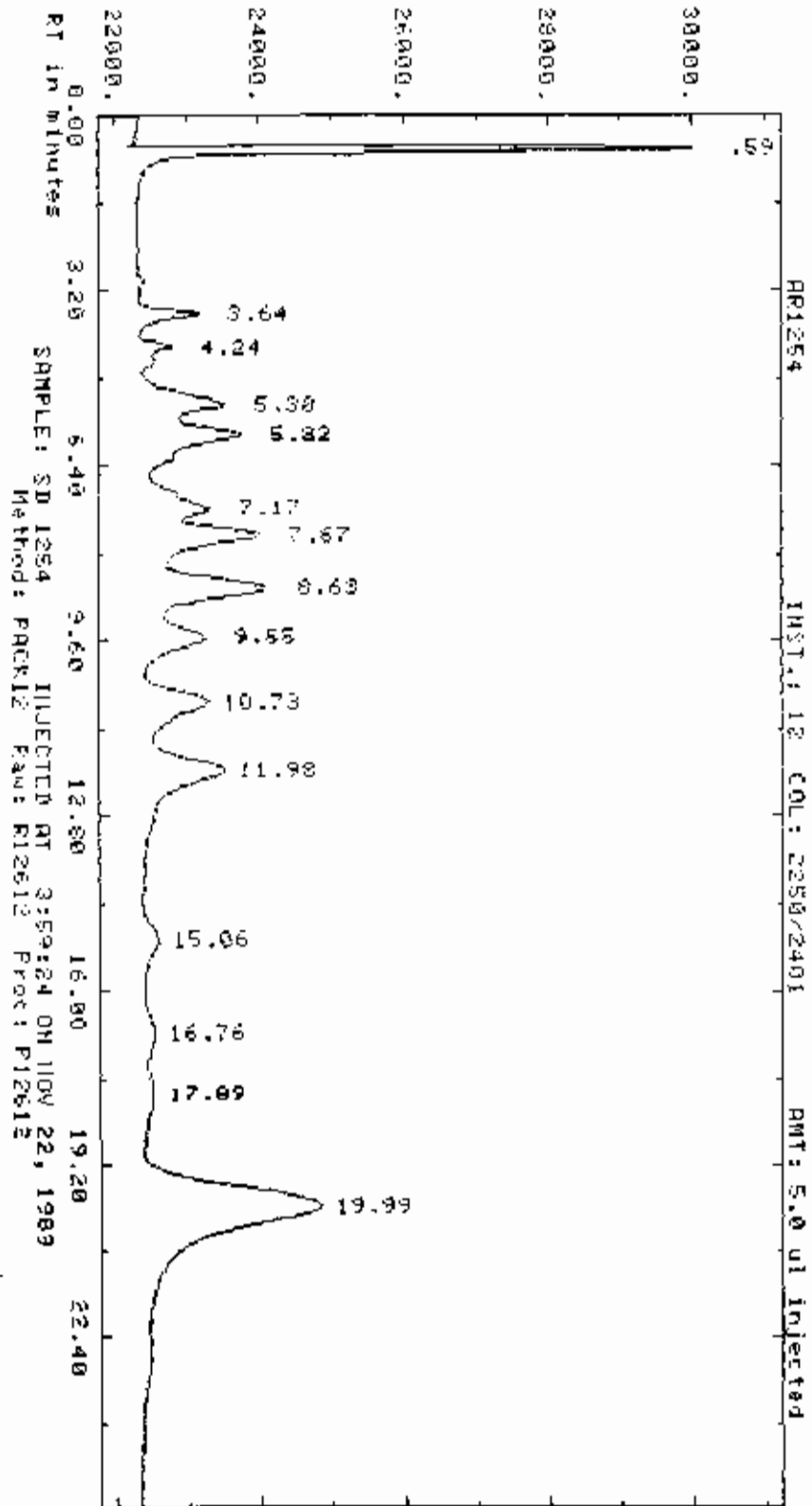
Total Area = 211533.

Total AREA % = 72213.500

Processed data file: P12611

Raw data file: R12611

AMPLITUDE x.25 UV-seconds (Enlarged x 2.88)



Report: 12399.00 Channel: 12

AP1254

Sample: SD 1254

Injected at 3:57:24 ON NOV 22, 1969

ZERO Method: PACK12

Seq: SEQ126

Subsq/Samp: 1/12

Bit: 12

Sl-width MU/Min Delay Min-Ap Bunch
.500 .300 0.00 1000 Auto

Sup-Unk DvT TD-Lvl Ref-RTW XRTW %Dil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 25.508 minutes

RT	ITM	Factor	Area	AREA %	Name
.59	0.00	.100000E+01	23571.	11.950	BB
3.64	0.00	.100000E+01	4845.	2.456	BB
4.24	0.00	.100000E+01	1547.	.784	BB
5.30	0.00	.100000E+01	6936.	3.517	BB
5.82	0.00	.100000E+01	10535.	5.350	BB
7.17	0.00	.100000E+01	4545.	2.314	BB
7.67	0.00	.100000E+01	10201.	5.172	BB
8.63	0.00	.100000E+01	15989.	8.106	BB
9.55	0.00	.100000E+01	2635.	1.336	BB
10.73	0.00	.100000E+01	12149.	6.159	BB
11.98	0.00	.100000E+01	15950.	8.087	BB
15.06	0.00	.100000E+01	3833.	1.943	BB
16.76	0.00	.100000E+01	1735.	.875	BB
17.89	0.00	.100000E+01	1971.	1.009	BB
19.99	0.00	.100000E+01	75699.	38.380	BB

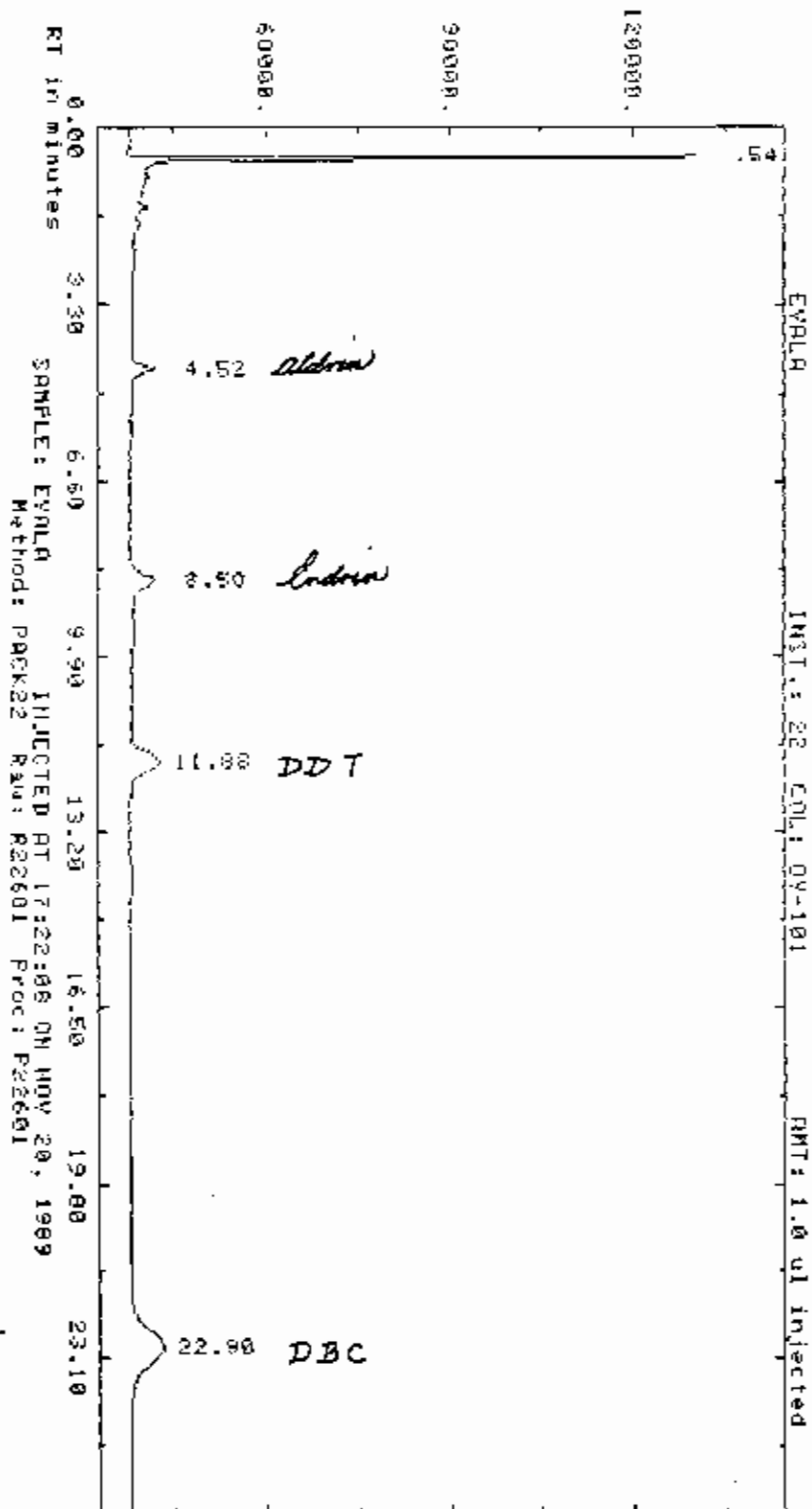
Total Area = 197238.

Total AREA % = 75699.000

Processed data file: P12612

Raw data file: R12612

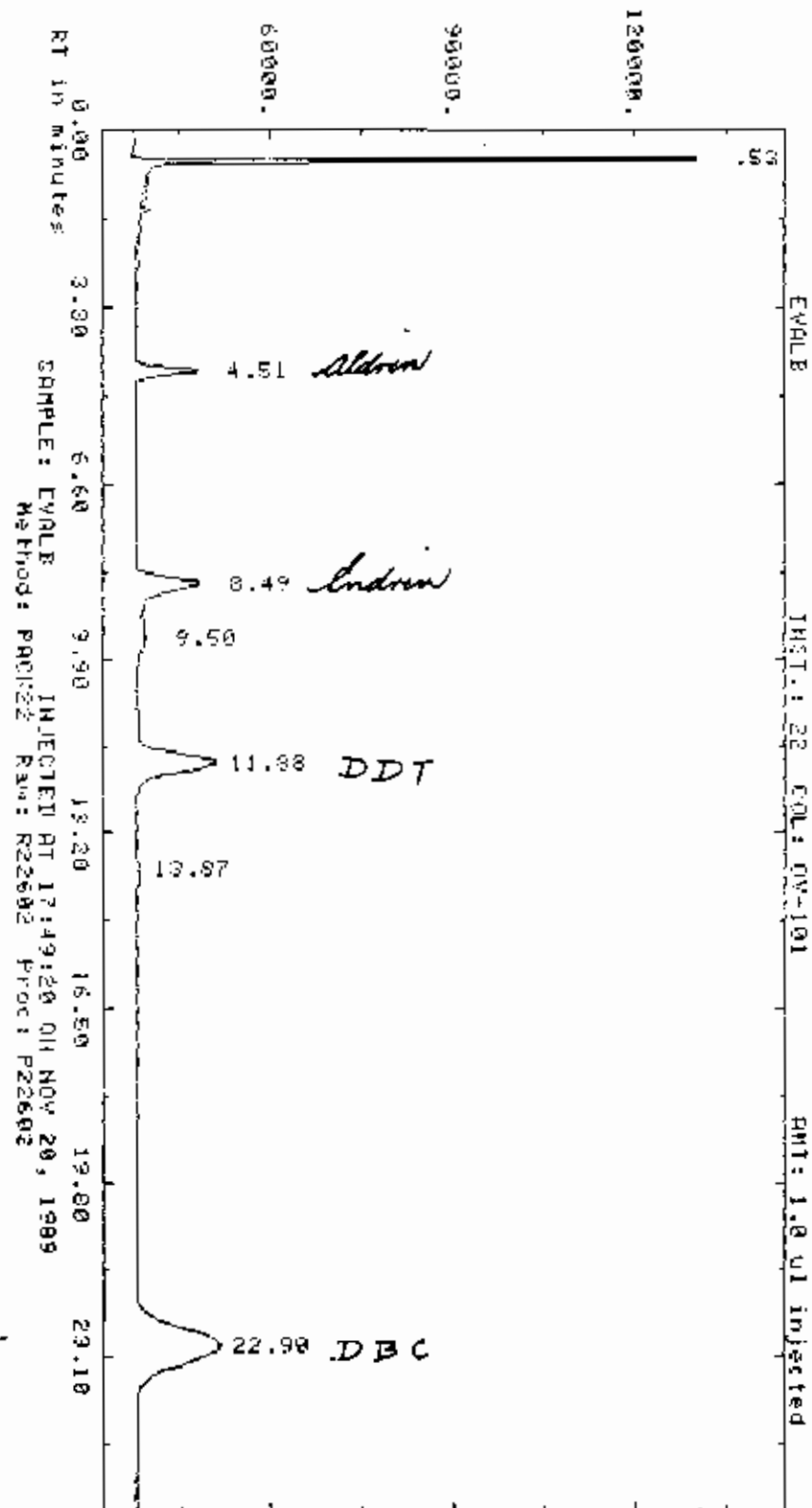
AMPLITUDE x.25 uV-seconds (Enlarged x 1.72)



Report: 1572.00 Channel: 22 EVALA
 Sample: EVALA Injected at 17:22:06 ON NOV 20, 1989
 ZERO Method: PACK22 Seq: SEQ226 Subsq/Samp: 1/1 B11: 1
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Geta
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW ZDil-f Iso
 NO 0.00 0 0.30 5.0 100.00 NO
 Actual run time: 26.017 minutes

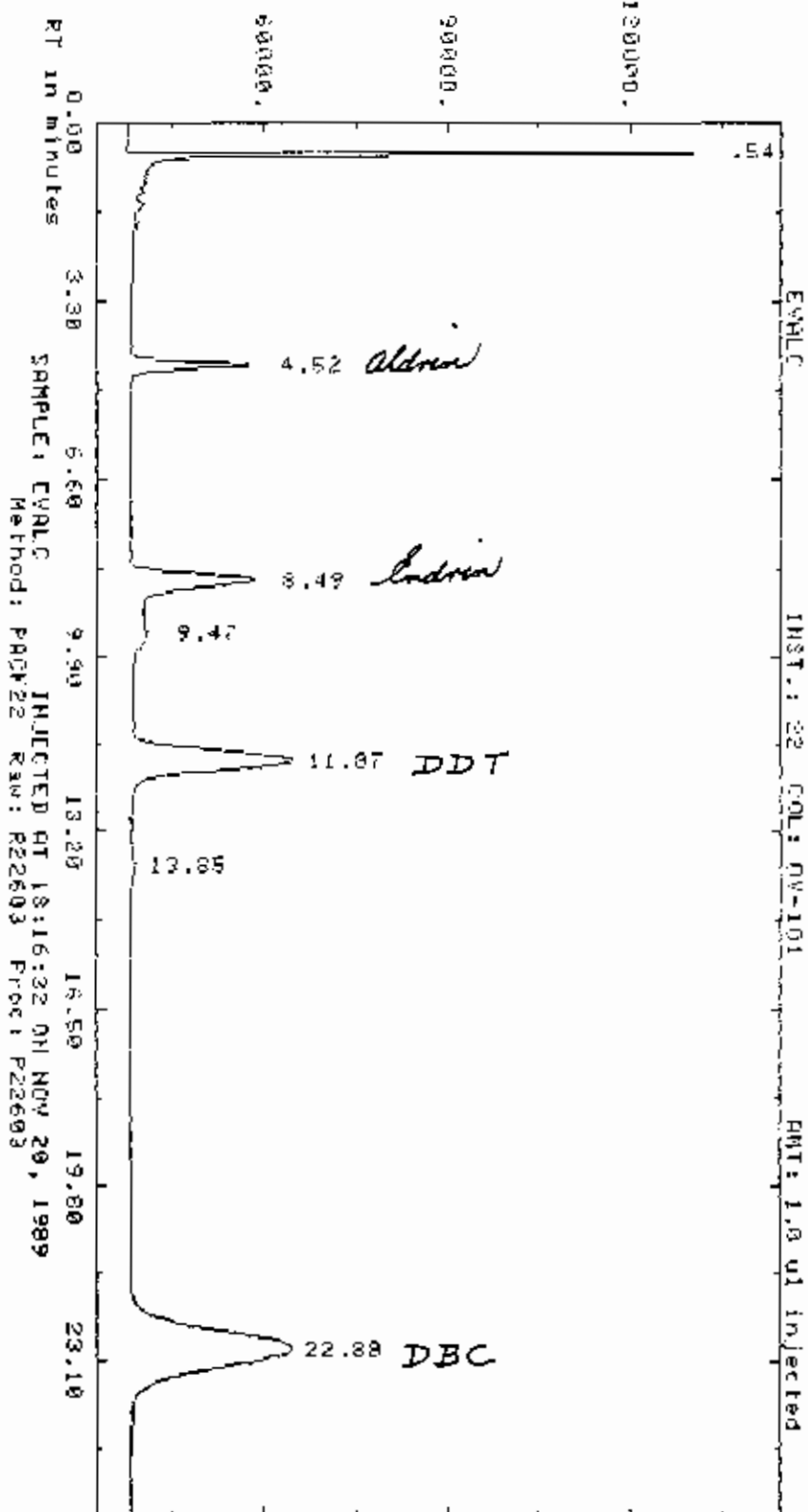
RT	ITM	Factor	Area	AREA %	Name
.54	0.00	.10000E+01	212679. BB	49.371	
4.52	0.00	.10000E+01	18949. BB	4.399	
9.50	0.00	.10000E+01	26914. BB	6.225	
11.88	0.00	.10000E+01	51974. BB	12.066	
22.90	0.00	.10000E+01	120356. BB	27.939	
Total Area = 430776.			Total AREA % = 100.000		
Processed data file: P22601			Raw data file: R22601		

AMPLITUDE x.25 uV-seconds (Enlarged x 3.23)



Report: 1573.00 Channel: 22 EVALB
 Sample: EVALB Injected at 17:49:20 ON NOV 20, 1967
 ZERO Method: PACK22 Seq: SEQ226 Subsq/Samp: 1/ 2 B11: 2
 SI-width HU/Min Delay Min-Ar PuncH
 .500 .300 0 00 5000 Auto
 Supr-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.017 minutes

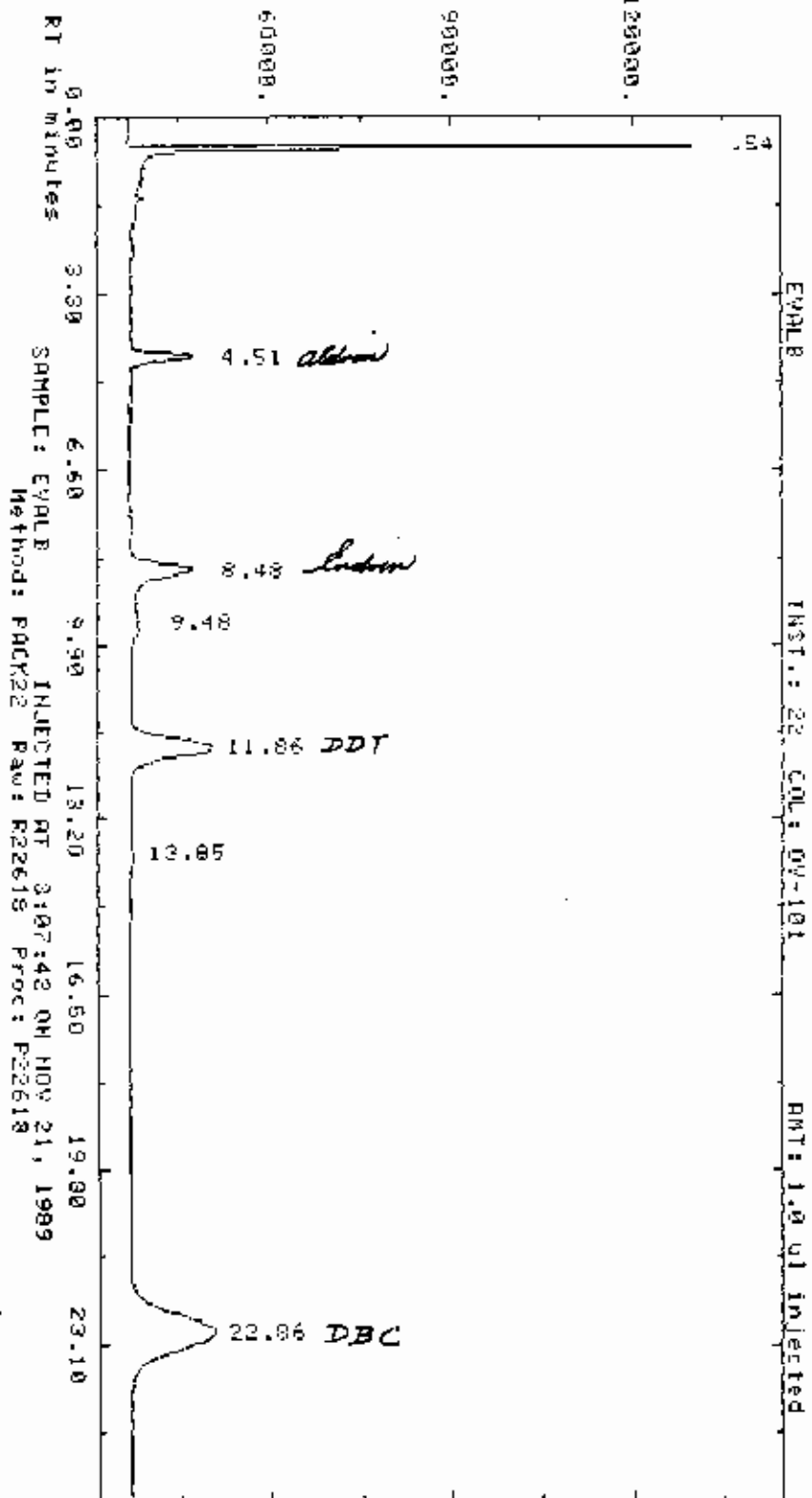
RT	ITH	Factor	Area	AREA %	Name
.53	0.00	.10000E+01	310069.	53.167	BB
4.51	0.00	.10000E+01	50607.	5.422	BB
3.49	0.00	.10000E+01	87024.	9.405	BB
9.50	0.00	.10000E+01	8464.	.905	BB
11.33	0.00	.10000E+01	152182.	16.279	BB
13.37	0.00	.10000E+01	5437.	.581	BB
23.90	0.00	.10000E+01	319714.	34.020	BB
Total Area = 934864.			Total AREA % = 319714.000		
Processed data file: P22602			Raw data file: R22602		



Report: 1574.00 Channel: 22 EVALC
 Sample: EVALC Injected at 19:16:32 ON NOV 20, 1987
 ZERO Method: PACK22 Seq. 5E0226 Subseq/Samp: 1/3 Btl. 3
 SI-width MU/Min Delay Min-Ar Runch
 .500 .300 0.00 5000 Auto
 Sup-Unk DUT ID-Lvl Ref-RTU %RTU %Dil-F Iso
 NO 0.00 0 0.30 5.0 100.00 NO
 Actual run time: 26.017 minutes

RT	ITH	Factor	Area	AREA %	Name
.54	0.00	1.0000E+01	466659.	27.525	BB
4.52	0.00	1.0000E+01	97825.	5.770	BB
9.49	0.00	1.0000E+01	172145.	10.154	BB
9.47	0.00	1.0000E+01	11397.	.672	BB
11.87	0.00	1.0000E+01	315107.	18.586	BB
15.85	0.00	1.0000E+01	8247.	.528	BB
22.00	0.00	1.0000E+01	623339.	36.766	BB
Total Area = 1695421			Total AREA % = 823339.000		
Processed data file: R22603			Raw data file: R22603		

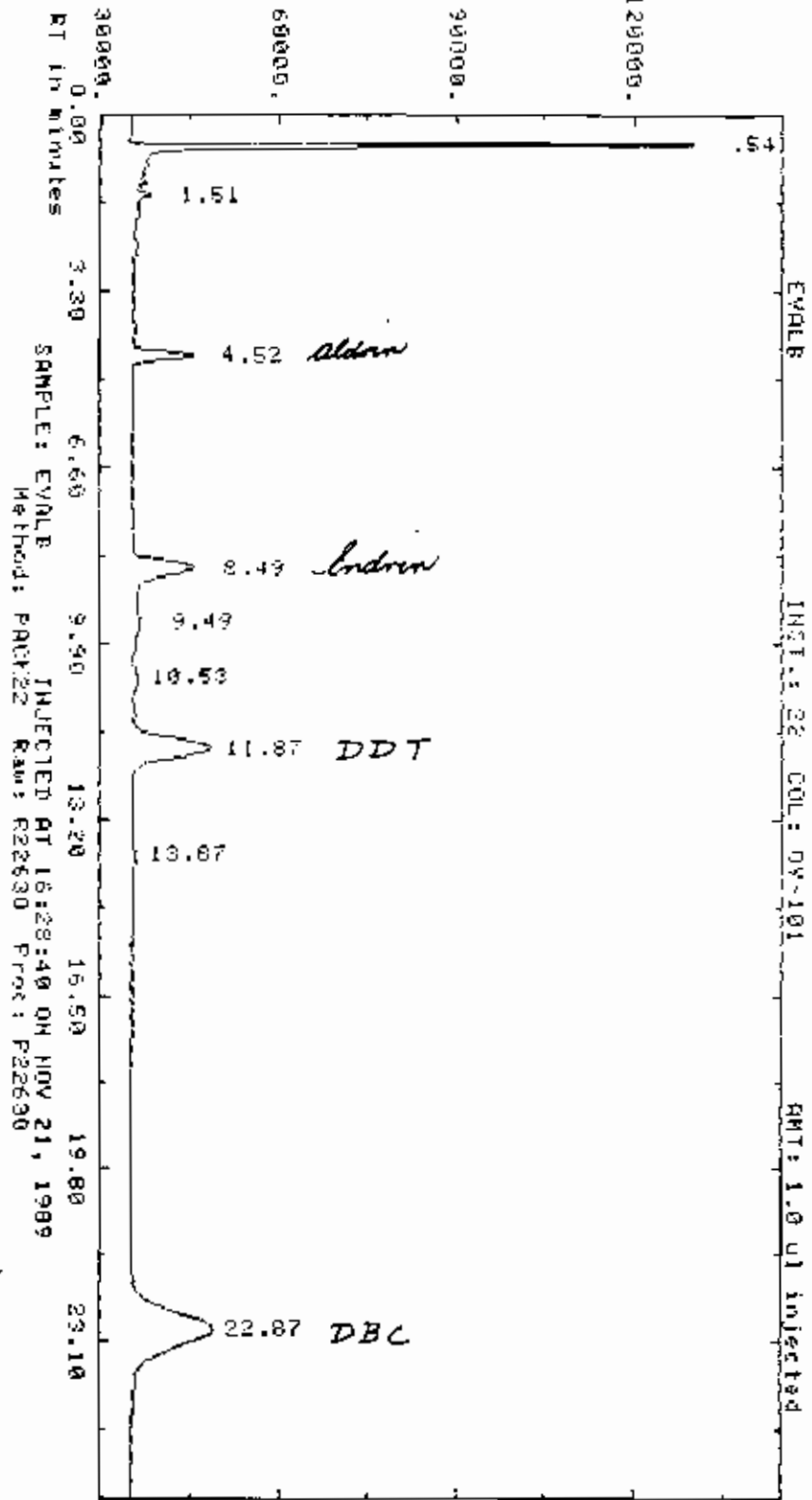
AMPLITUDE x.25 uV-seconds (Enlarged x 3.26)



Report: 1589.00 Channel: 22 EVALB
 Sample: EVALB Injected at 3:07:42 ON NOV 21, 1987
 ZERD Method: PACK22 Seq: SED226 Subsq/Samp: 1/18 Btl: 18
 Sl-width HU/Min Delay Min-Ar Bunch
 .590 300 0.00 5000 Auto
 Sup-link DvT ID-Lvl Ref-RTW ZRTW %Dil-f Use
 NO 0.00 0 30 5.0 100.00 NO
 Actual run time: 26.017 minutes

RT	ITM	Factor	Area	AREA %	name
.54	0.00	.10000E+01	349278.	35.187	BS
4.51	0.00	.10000E+01	50981.	5.136	BB
8.48	0.00	.10000E+01	53017.	5.357	BB
9.48	0.00	.10000E+01	10696.	1.078	BB
11.86	0.00	.10000E+01	162265.	16.347	BB
13.85	0.00	.10000E+01	6035.	.608	BB
22.86	0.00	.10000E+01	325371.	32.773	BB
Total Area =		992645.	Total AREA % =		325371.000
Processed data file		P22610	Raw data file:		R22618

AMPLITUDE x.25 uV-seconds (Enlarged x 2.53)

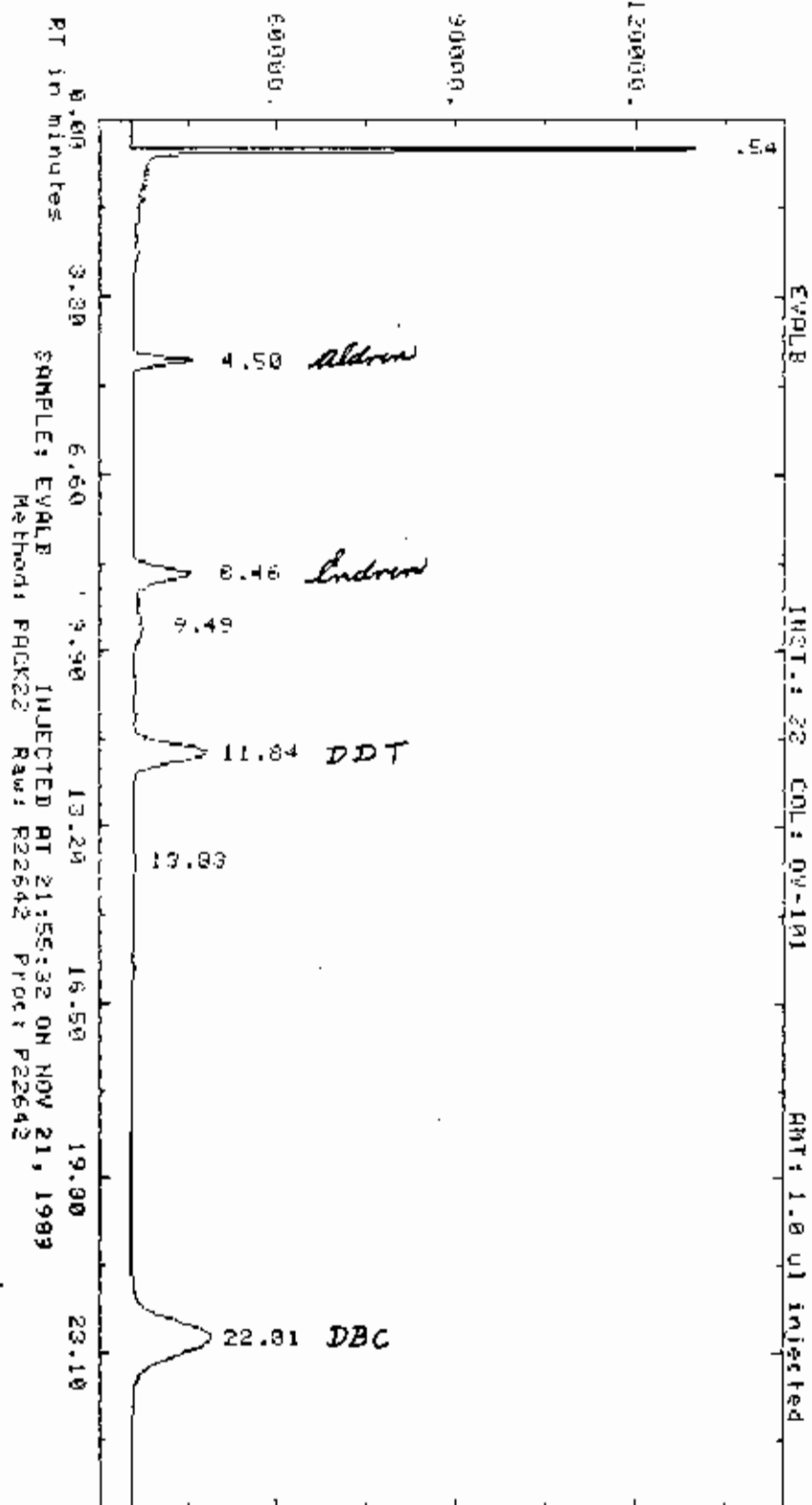


Report: 1601.00 Channel: 32 EV0LB
 Sample: EV0LB Injected at 16:28.40 ON NOV 21, 1969
 ZERO Method: PACK22 Seq. SEQ226 Subsq/Samp: 1/30 Btl. 30
 Sl-Width 500 MV/Min .300 Delay 0.00 Min-Ac 5000 Bunch auto
 Sup-Link NO DVT 0.00 ID-Lvl 0 Ref-RTW .30 %RTW 5.0 %Dil-f 100.00 Iso NO
 Actual run time: 26.008 minutes

RT	ITM	Factor	Area		AREA %	lane
.54	0.00	.10000E+01	360467.	BS	35.826	
1.51	0.00	.10000E+01	5355.	BB	.532	
4.52	0.00	.10000E+01	50068.	BB	4.927	
8.49	0.00	.10000E+01	88157.	BB	8.759	
9.49	0.00	.10000E+01	10086.	BB	1.003	
10.53	0.00	.10000E+01	6266.	BB	.623	
11.97	0.00	.10000E+01	154882.	BB	15.315	
13.87	0.00	.10000E+01	6230.	BB	.619	
22.07	0.00	.10000E+01	325426.	BB	32.347	

Total Area = 1006659. Total AREA % = 325426.000
 Processed data file: P02630 Raw data file: R02630

AMPLITUDE <.25 uV-seconds (Enlarged x 2.21)



Report: 1613.00 Channel: 22 EVALB
 Sample: EVALB Injected at 21:53:32 ON NOV 21, 1989
 ZERO Method: PACT22 Seq: SC0226 Subseq/Samp: 1/42 Btl: 42
 Sl-width MV/Min Delay Rin-4r Bunch
 .500 .300 0.00 5000 A070
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW %Dil-F Iso
 NO 0.00 0 0.30 5.0 100.00 NO

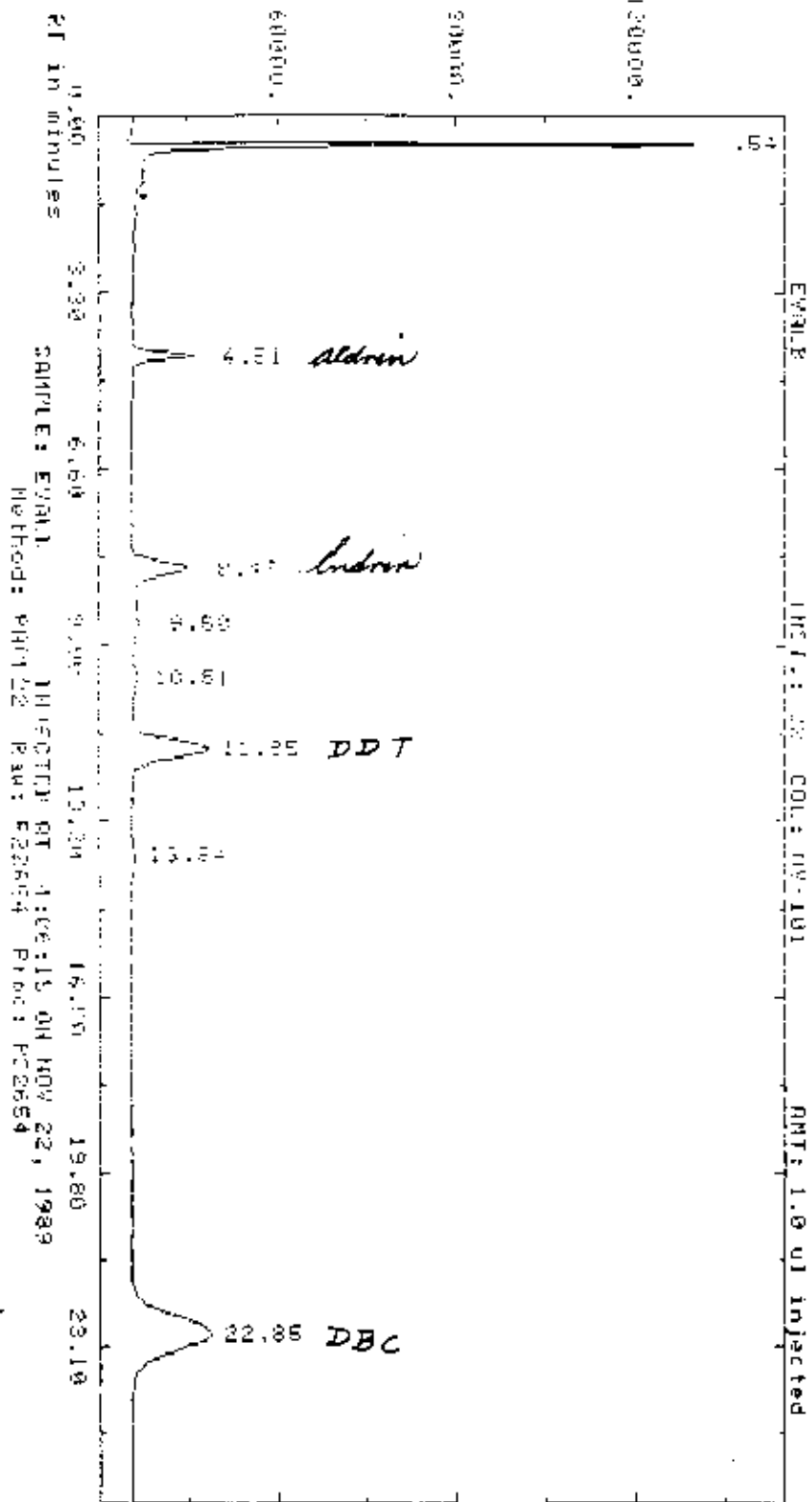
Actual run time: 26.017 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.54	0.00	.10000E+01	347224.	36.455	BS
4.50	0.00	.10000E+01	48764.	5.114	BB
8.46	0.00	.10000E+01	79937.	8.351	BB
9.49	0.00	.10000E+01	11938.	1.253	BB
11.84	0.00	.10000E+01	142972.	15.000	BB
13.63	0.00	.10000E+01	7990.	.837	BB
22.81	0.00	.10000E+01	314197.	32.908	BB

Total Area = 952462. Total AREA % = 314197.000

Processed data file: P22642 Raw data file: R22642



Report: 1625.00 Channel: 22 TMS F

Sample: EVALB Injection at 4.0015 ON NOV 25, 1989

ZEPD Method: PAK22 Sec: SF0326 Substrate: 1074 811.50

Sl-width MJ/Min Delay Co-ord Area
.500 300 0.00 5000 0.00

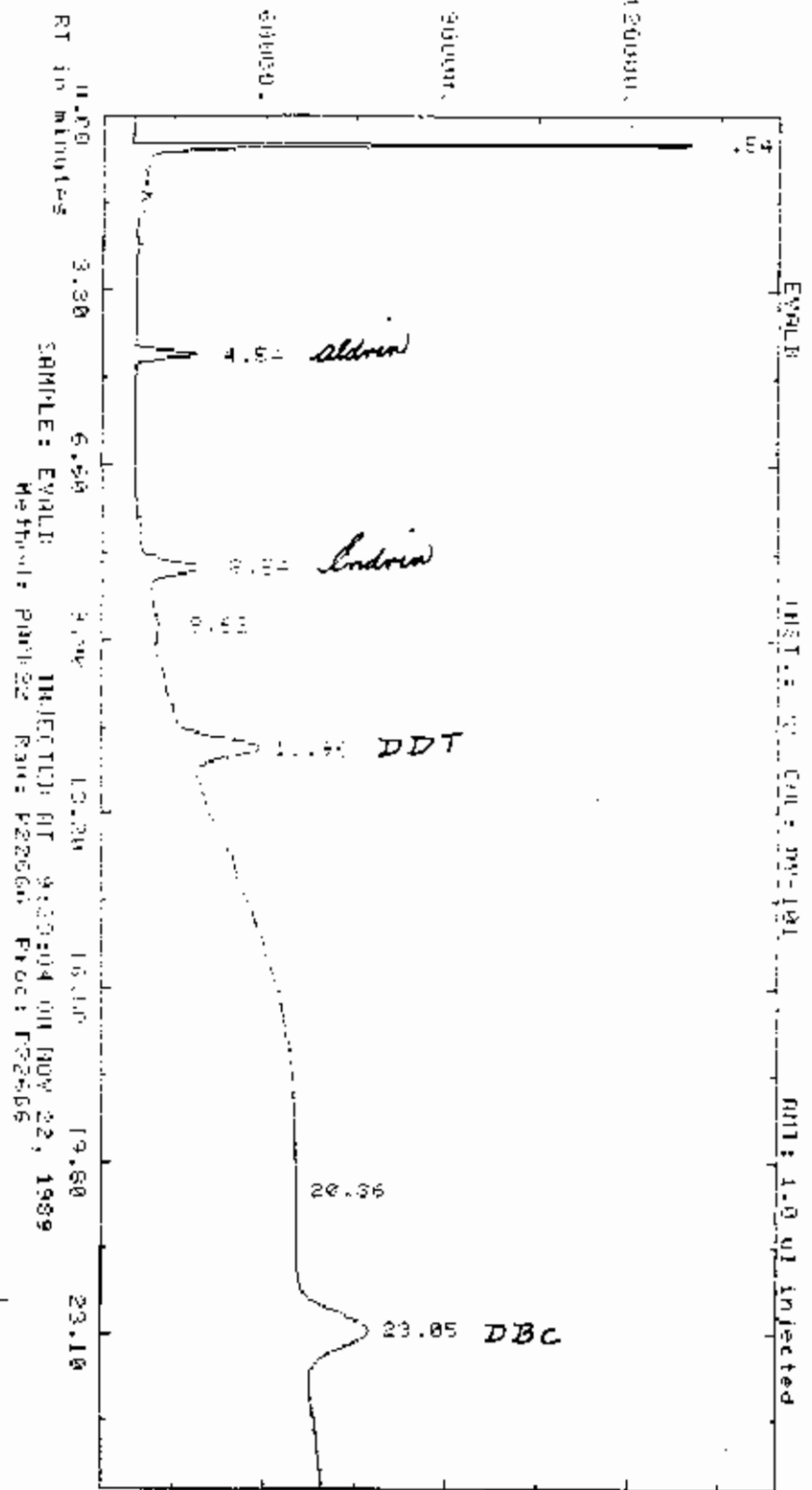
Sub-Dir Det ID-Def Ref-Def SFTW XDiff T-Def
ND 0.00 0 1.30 5.0 100.00 NG

Actual run time: 25.017 minutes

RT	ITM	Factor	Area	Area %	Area
4.54	0.00	1.0000E+01	7001.0	2.00	34.024
4.51	0.00	1.0000E+01	6215.0	1.70	31.938
9.47	0.00	1.0000E+01	2210.0	0.60	11.060
9.50	0.00	1.0000E+01	1210.0	0.30	6.236
10.51	0.00	1.0000E+01	1000.0	0.25	5.076
11.85	0.00	1.0000E+01	1400.0	0.35	7.201
13.84	0.00	1.0000E+01	700.0	0.15	3.555
22.25	0.00	1.0000E+01	22100.0	60.00	1130.00

Total Area = 36410 Total Area % = 31.5000.000

Processed data file: P0245A Sample file: B02654



Report: 1637 00 Channel: 22 EVALB

Sample: EVALB Injected at 9:33:04 PM Nov 22, 1987

ZERO Method: PACK22 Seq: SP0226 Subseq/Scrp: 1/10 Btl: 60

SI-width 40/Min Delay Min-Ap Bunch
.500 .300 0.00 5000 Auto

Sup-Unit Det ID-Unit Ref-RTW RTU X01-F Iso
NO 0.00 5 1.20 5.0 100.00 NO

Actual run time: 26.017 minutes

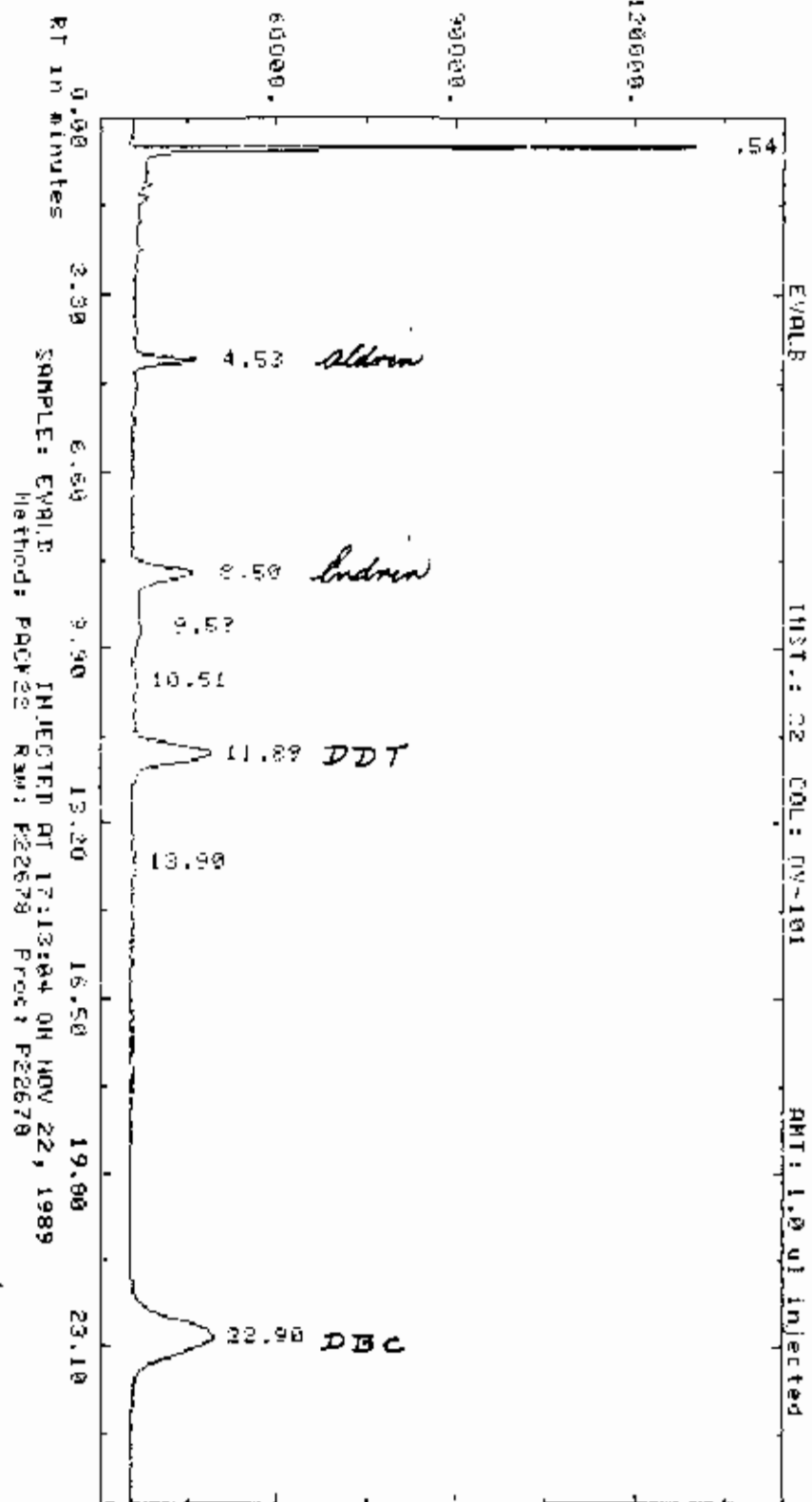
Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
5.4	0.00	1.0000E+01	361097.25	23.583	
4.94	0.00	1.0000E+01	48462.87	3.136	
8.54	0.01	1.0000E+01	28409.73	1.716	
9.62	0.00	1.0000E+01	10771.92	.674	
11.94	0.01	1.0000E+01	67931.88	4.330	
20.36	0.10	1.0000E+01	75675.14	48.507	
23.05	0.00	1.0000E+01	245347.80	15.667	

Total Area = 1530258 Total AREA % = 215367.040

Processed data file: P02260 Raw data file: R02260

AMPLITUDE x.25 uV-seconds (Enlarged x 0.25)



Report: 1649.00 Channel: 22 EVALD

Sample: EVALB Injected at 17:13:04 ON NOV 22, 1989

ZERO Method: PACK22 Seq: SEQ226 Subsq/Samp: 1/78 Bit 78

Sl-width MV/Min Delay Min-Ar Bunch
.500 .300 0.00 5000 A0%

Sup-Unk Det ID-Val Ref-RTW ZRTW MDil-F Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
3.54	0.00	.10000E+01	331230.	34.255	BB
4.53	0.00	.10000E+01	50768.	5.250	BB
8.50	0.00	.10000E+01	81709.	8.470	BB
9.53	0.00	.10000E+01	13735.	1.420	BB
10.51	0.00	.10000E+01	6158.	.637	BB
11.89	0.00	.10000E+01	151083.	15.707	BB
13.90	0.00	.10000E+01	9537.	.984	BB
22.90	0.00	.10000E+01	322272.	33.327	BB

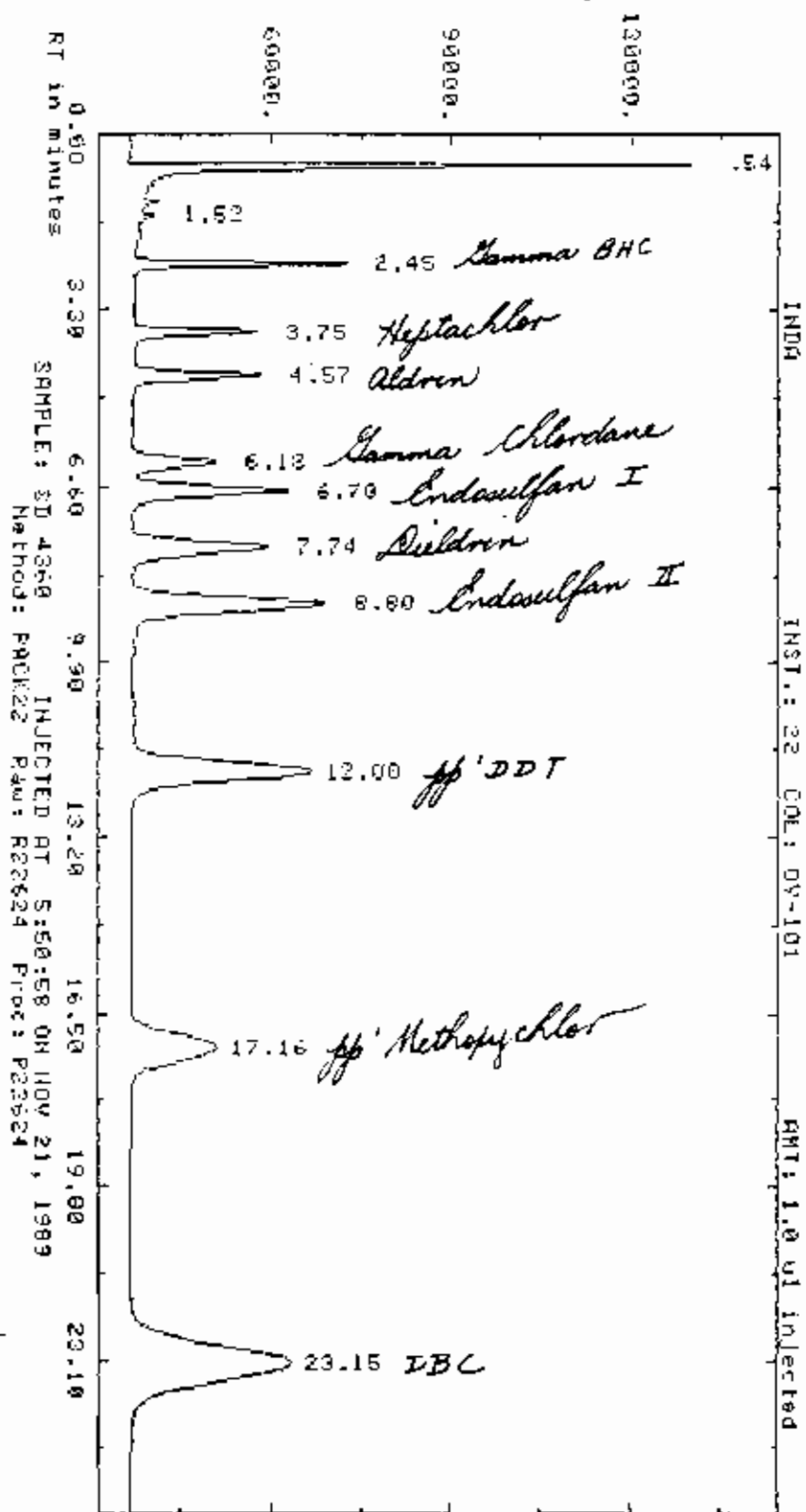
Total Area = 967003.

Total AREA % = 322272.000

Processed data file: P22678

Raw data file: R22678

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Report: 1595.00 Channel: 22 IRP0
 Sample: SD 4360 Injected at 5:30:58 On NOV 21, 1969
 ZERO Method: PACK22 Seq: SER224 Subsq/Samp: 1/24 BII: 24
 Sl-width HV/Mir Delay Min-Ar Bunch
 .500 .300 0.00 5000 A010
 Sup-Unk DvT ID-Lvl Ref-RTW ZRTW %Dil-F Iso
 NO 0.00 0 30 5.0 100.00 NO
 Actual run time: 24.008 minutes
 Ended not on baseline

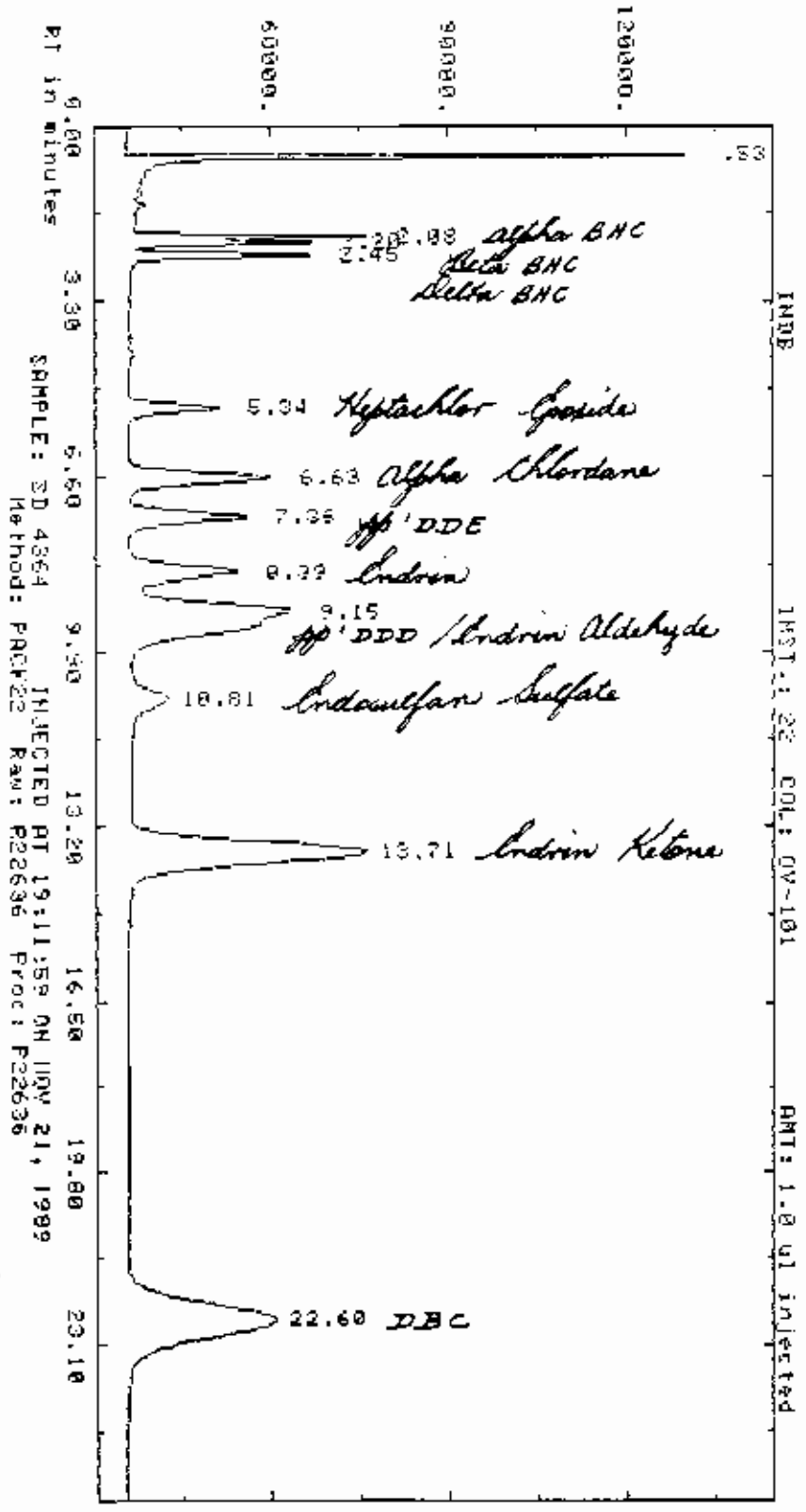
RT	ITM	Factor	Area	AREA %	Name
.54	0.00	1.0000E+01	464266.	16.720	BB
1.52	0.00	1.0000E+01	5659.	.204	BB
2.45	0.00	1.0000E+01	107594.	3.879	BB
3.75	0.00	1.0000E+01	89491.	3.223	BB
4.57	0.00	1.0000E+01	103353.	3.794	BB
6.12	0.00	1.0000E+01	64739.	2.362	BB
6.70	0.00	1.0000E+01	177975.	6.407	BB
7.74	0.00	1.0000E+01	162670.	5.928	BB
9.00	0.00	1.0000E+01	319541.	11.783	BB
12.00	0.00	1.0000E+01	355416.	12.800	BB
17.16	0.00	1.0000E+01	242240.	8.977	BB
23.15	0.00	1.0000E+01	643730.	23.162	BB

Total Area = 2776795. Total AREA % = 643730.000

Processed data file: P22624

Raw data file: R22624

AMPLITUDE x.25 uV-seconds (Enlarged x 5.16)



Report: 1607.00 Channel: 22 INDI
 Sample: SD 4364 Injected at 19:11:59 ON NOV 21, 1989
 ZERO Method: PACK22 Seq: SC0226 Subsq/Camp: 1/36 Btl: 36
 Sl-Width MV/Min Delay Min-Ac Bunch
 500 .300 0.00 5.000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW ZRTW %OIL-f Iso
 NO 0.00 0 1.00 0.0 100.00 NO

Actual run time: 26.008 minutes

Ended not on baseline

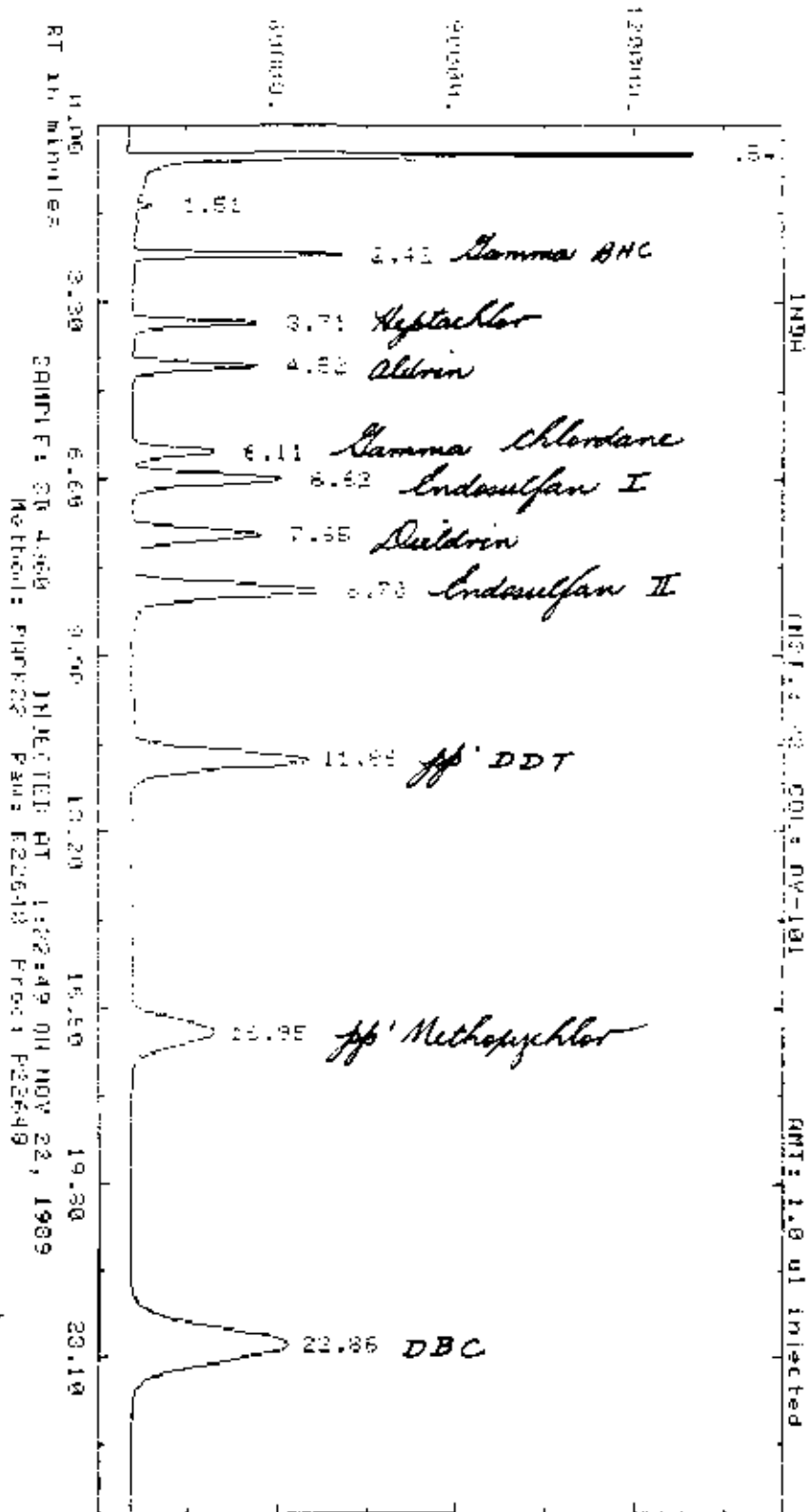
RT	ITM	Factor	Area	AREA %	Name
1.53	0.00	10000E+01	452429.	15.828	BB
2.08	0.00	10000E+01	52069.	1.850	BB
2.20	0.00	10000E+01	34524.	1.208	BB
3.43	0.00	10000E+01	82809.	2.897	BB
5.34	0.00	10000E+01	87001.	3.044	BB
6.63	0.00	10000E+01	170417.	5.962	BB
7.35	0.00	10000E+01	156253.	5.257	BB
8.39	0.00	10000E+01	143228.	5.011	BB
9.15	0.00	10000E+01	441559.	15.449	BB
10.81	0.00	10000E+01	74963.	2.623	BB
13.71	0.00	10000E+01	500178.	17.298	BB
22.60	0.00	10000E+01	285059.	10.057	BB

Total Area = 2858321.

Total AREA % = 508959.000

Processed data file: PE2636

RAW data file: RC2636



Report: 1519.00 Channel: 25 1204

Sample: SD 4340 In: 3.160 at 1001.07 ON Nov 22, 1989

ZFRD Method: PAK202 Sec: 85120. Sample/Wasp: 12.00 ETL: 40

SI-Width 80/Min 10.00 100000 0.00 2000 4000

Gain-Link NO Det 0.00 IS-100 0.00 30 5.0 20.00 100.00 0.00

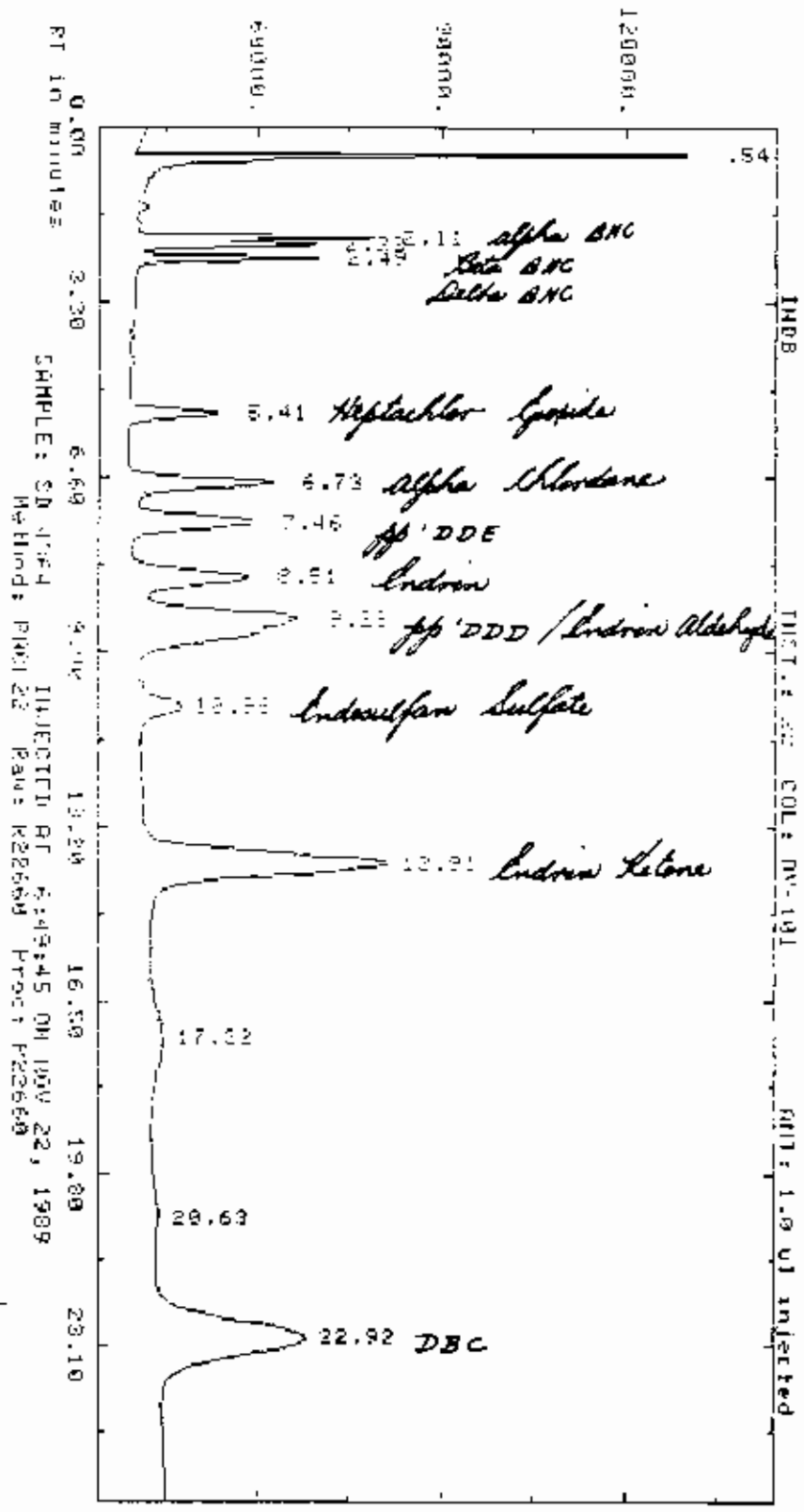
Actual run time: 26.657 minutes

Ended not on baseline

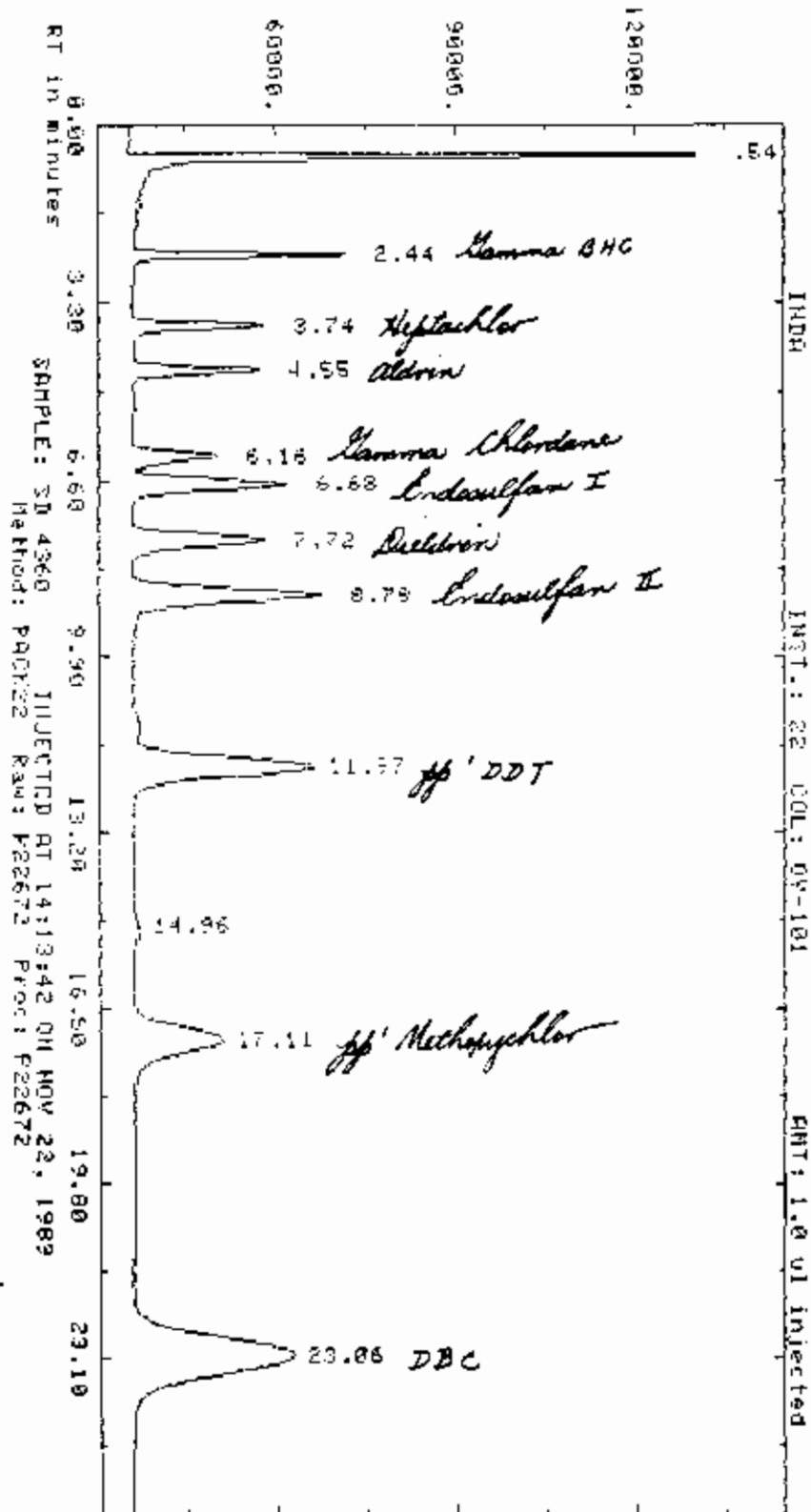
RT	ITM	Factor	Area	Area %	Area
0.54	0.00	100000+01	46522	80	17.214
1.51	0.00	100000+01	5000	89	1.210
2.42	0.00	100000+01	107000	80	3.581
3.74	0.00	100000+01	80000	80	2.626
4.52	0.00	100000+01	100000	80	3.756
6.11	0.00	100000+01	60000	80	2.321
6.62	0.00	100000+01	120000	80	4.607
7.65	0.00	100000+01	100000	80	3.614
8.74	0.00	100000+01	290000	80	10.759
11.86	0.00	100000+01	300000	80	10.700
16.95	0.00	100000+01	240000	80	8.926
22.86	0.00	100000+01	220000	80	8.310

Total Area = 2264455. Total Area % = 88887.000

Processed data File: 220648. Raw data File: 12064.



AMPLITUDE x.25 uV-seconds (Enlarged x 5.41)



Report: 1643.00 Channel: 22 IN00
 Sample: SD 4360 Injected at 14:13:42 ON NOV 22, 1969
 ZERO Method: PACK22 Seq: SEQ226 Subsq/Samp: 1/72 Ptl: 72
 Sl-width MU/Min Delay Min-Ac Bunch
 .500 .500 0.00 5000 Auto
 Sup-Unk Dvt ID-Lvl Ref-RW %RTW ZDil-f Tsc
 NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITH	factor	Area	AREA %	Name
.34	0.00	.10000E+01	497829.	17.130	BB
2.44	0.00	.10000E+01	104227.	3.736	BB
3.74	0.00	.10000E+01	94137.	3.375	BB
4.55	0.00	.10000E+01	105033.	3.767	BB
6.16	0.00	.10000E+01	84817.	3.041	BB
6.68	0.00	.10000E+01	176295.	6.317	BB
7.72	0.00	.10000E+01	172976.	6.180	BB
8.78	0.00	.10000E+01	305263.	10.944	BB
11.97	0.00	.10000E+01	352488.	12.633	BB
14.96	0.00	.10000E+01	13054.	.468	BB
17.11	0.00	.10000E+01	257624.	9.256	BB
23.06	0.00	.10000E+01	639726.	22.934	BT

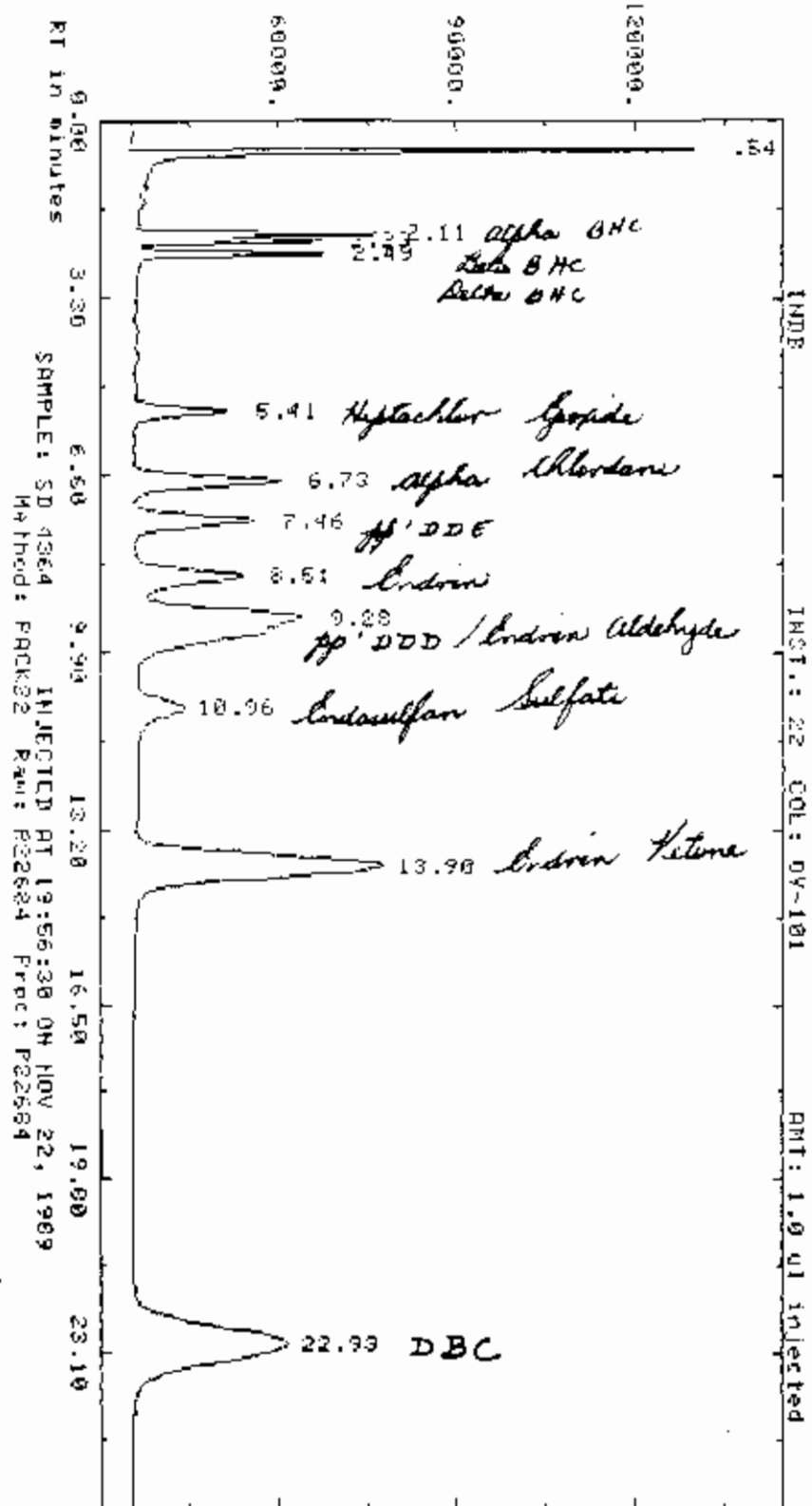
Total Area = 2709477.

Total AREA % = 659726.000

Processed data file: P22672

Raw data file: R22672

AMPLITUDE x.25 uV-seconds (Enlarged x 6.23)



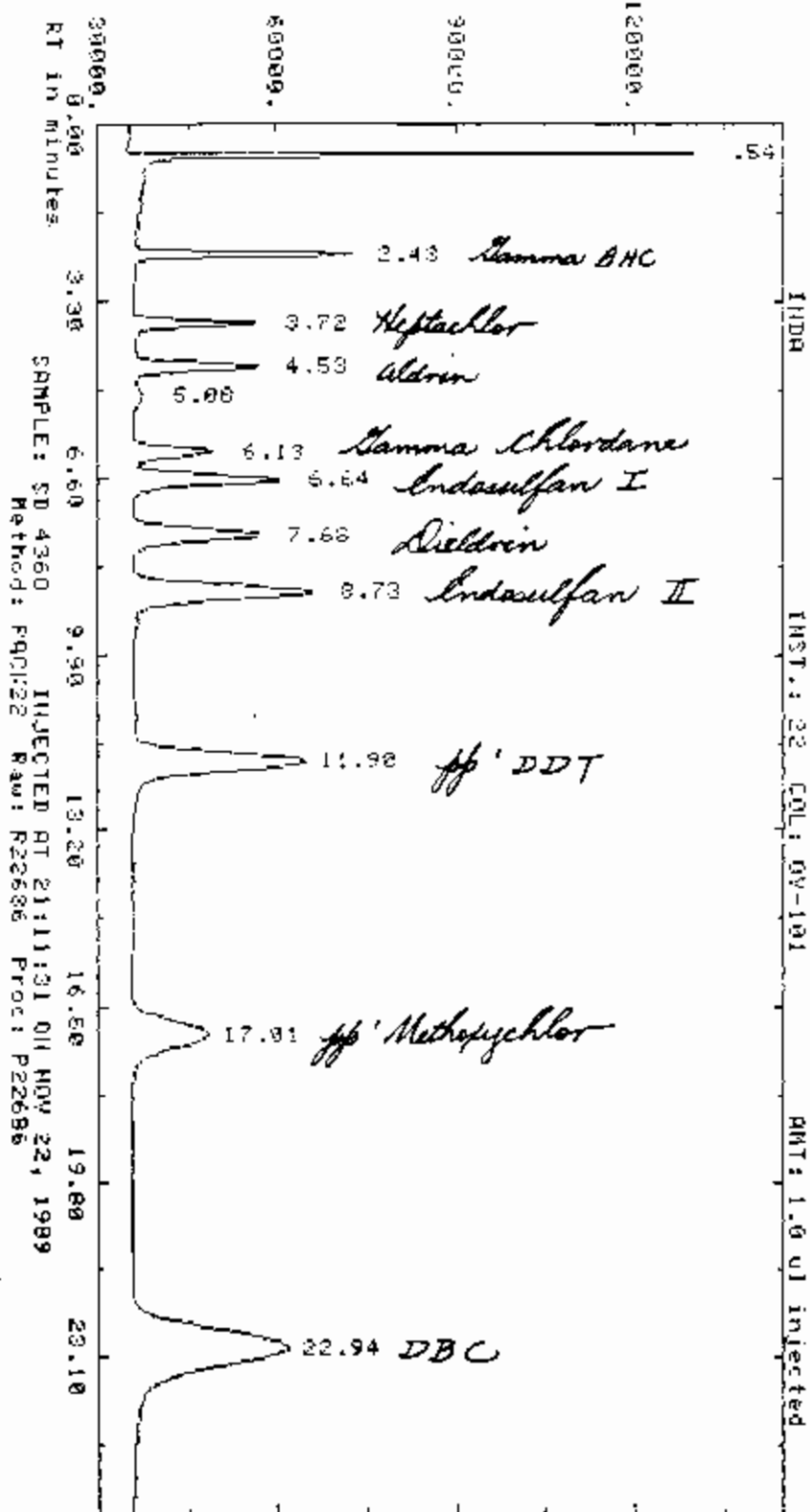
Report: 1655 00 Channel: 22 INSB
 Sample: SD 1364 Injected at 17:56:30 ON NOV 22, 1989
 ZERO Method: PCK22 Seq: SF0224 Subsq/Samp 1/24 Btl: 64
 Sl-Width MU/Min Delay Min-Ap Sunch
 500 .300 0.00 5000 606
 Sup-Dirk DvT ID-Lvl Ref-RTW SRTH %Dil-f Iso
 NO 0.00 0 30 5.0 100.00 NO

Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.54	0.00	.10000E+01	501461.	15.549	BS
1.11	0.00	.10000E+01	35763.	1.040	DE
2.23	0.00	.10000E+01	37002.	1.121	DD
4.49	0.00	.10000E+01	65193.	1.943	BB
7.41	0.00	.10000E+01	89022.	2.638	LB
10.73	0.00	.10000E+01	174588.	5.185	BB
17.46	0.00	.10000E+01	154555.	4.501	BB
26.51	0.00	.10000E+01	143831.	4.217	BB
39.28	0.00	.10000E+01	456106.	13.454	BB
10.96	0.00	.10000E+01	94722.	2.768	BB
17.90	0.00	.10000E+01	619211.	18.279	BB
22.93	0.00	.10000E+01	617634.	18.383	BF

Total Area = 3130115. Total AREA % = 617634.000
 Processed data file: R22684 Raw data file: R22684

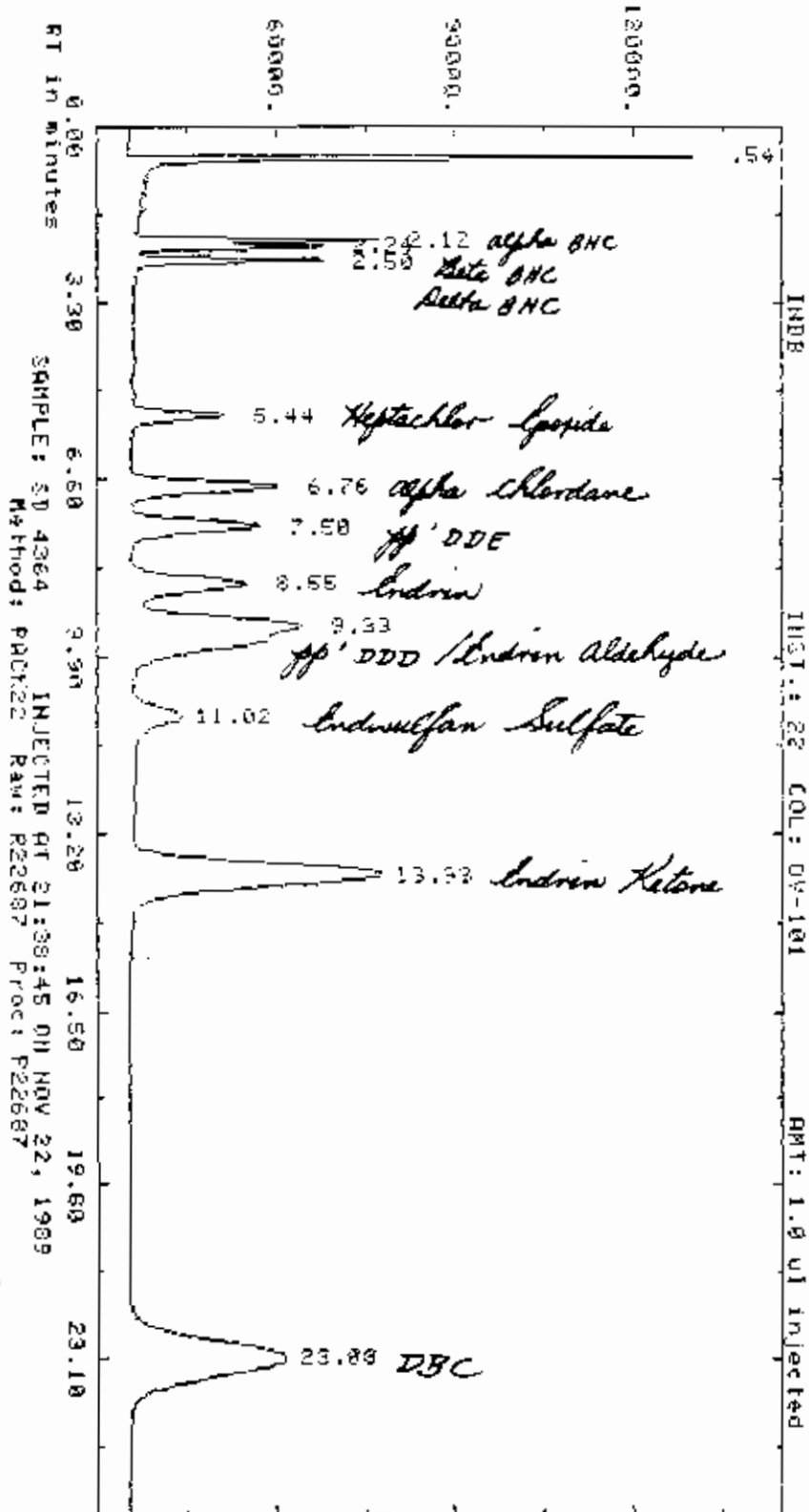
AMPLITUDE 4.25 uV-seconds (Enlarged x 2.98)



Report: 1657 00 Channel 22 INDA
 Sample: SD 4360 Injected at 21:11:31 ON NOV 22, 1989
 ZERO Method: PACK22 Seq: SEQ226 Subsq/Samp: 1/86 Btl: 86
 Sl-width HU/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk Dvt ID-Lvl Ref-RTW %RTW %Dil-F Iso
 NO 0.00 0 30 5.0 100.00 NO
 Actual run time: 26.017 minutes
 Ended not on baseline

RT	ITH	Factor	Area		AREA %	Name
.54	0.00	.10000E+01	295275.	BB	11.534	
2.43	0.00	.10000E+01	111489.	BB	4.355	
3.72	0.00	.10000E+01	86076.	BB	3.140	
4.53	0.00	.10000E+01	104125.	BB	4.067	
5.08	0.00	.10000E+01	7678.	BB	.378	
6.13	0.00	.10000E+01	80000.	BB	3.156	
6.64	0.00	.10000E+01	167142.	BB	6.529	
7.68	0.00	.10000E+01	172161.	BB	6.725	
8.73	0.00	.10000E+01	290958.	BB	11.365	
11.20	0.00	.10000E+01	350434.	BB	13.689	
17.01	0.00	.10000E+01	219507.	BB	8.596	
22.94	0.00	.10000E+01	667993.	BB	26.171	
Total Area =			2560033.	Total AREA % = 669993.000		
Processed data file: P22686			Raw data file: R22686			

AMPLITUDE x.05 uV-seconds (Enlarged x 6.46)



Report: 1658.00 Channel: 22 INDE
 Sample: 50 4364 Injected at 21:38:45 On NOV 22, 1989
 ZERO Method: PACK22 Seq: SEQ226 Subsq/Samp: 1/87 P11: 87
 Sl-width HU/Min Delay min-Ac PuncH
 .500 .300 0.00 5000 Note
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %D11-f %So
 NO 0.00 0 0.30 5.0 100.00 NU

Actual run time: 26.008 minutes

Ended not on baseline

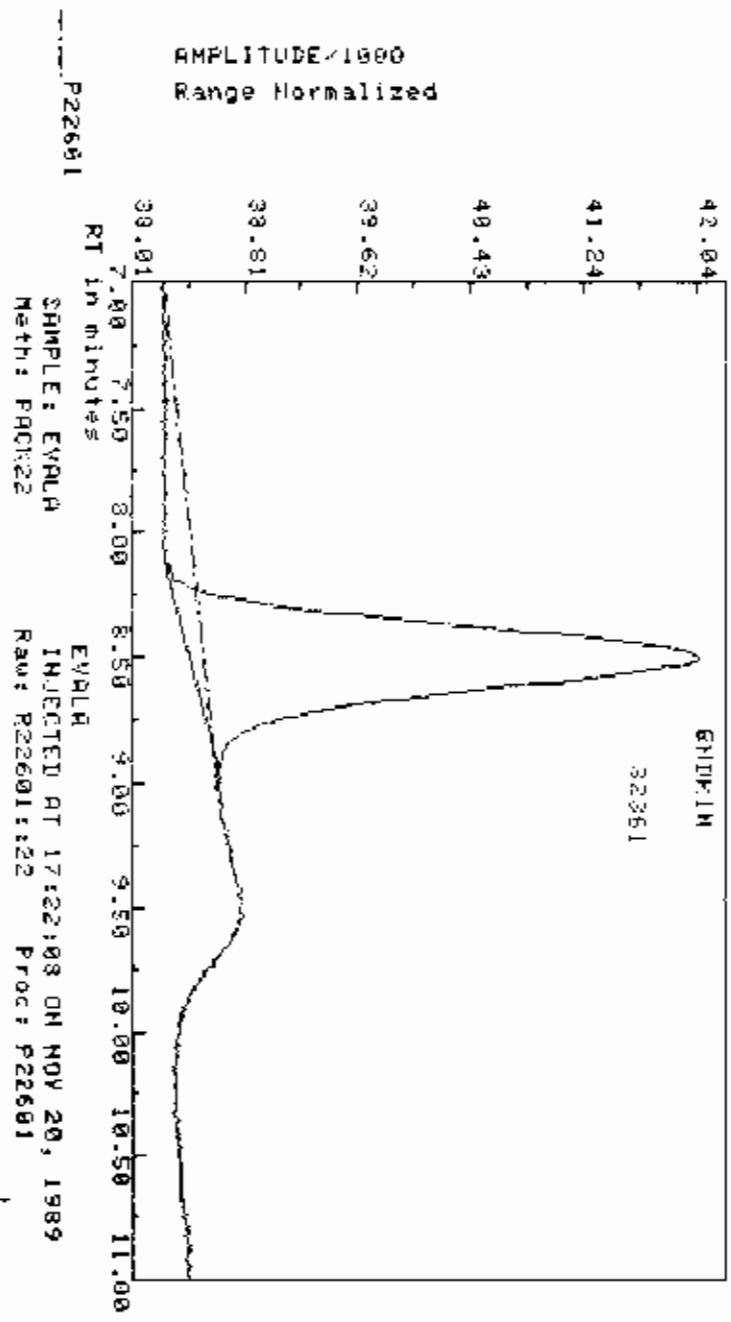
RT	ITH	Factor	Area	AREA %	Name
.54	0.00	1.0000E+01	623437.	19.367	BS
2.12	0.00	1.0000E+01	55423.	1.722	BR
2.24	0.00	1.0000E+01	37283.	1.153	BS
2.50	0.00	1.0000E+01	82715.	2.762	BB
5.44	0.00	1.0000E+01	90687.	2.817	BB
6.76	0.00	1.0000E+01	179990.	5.551	BB
7.80	0.00	1.0000E+01	136907.	4.247	BB
8.55	0.00	1.0000E+01	154164.	4.789	BB
9.33	0.00	1.0000E+01	433708.	14.562	BB
11.02	0.00	1.0000E+01	27541.	0.850	BB
13.98	0.00	1.0000E+01	624389.	19.396	BB
23.08	0.00	1.0000E+01	629623.	19.559	BF

Total Area = 3219413.

Total AREA % = 629623.000

Processed data file: R22687

Raw data file: R22687



456672070

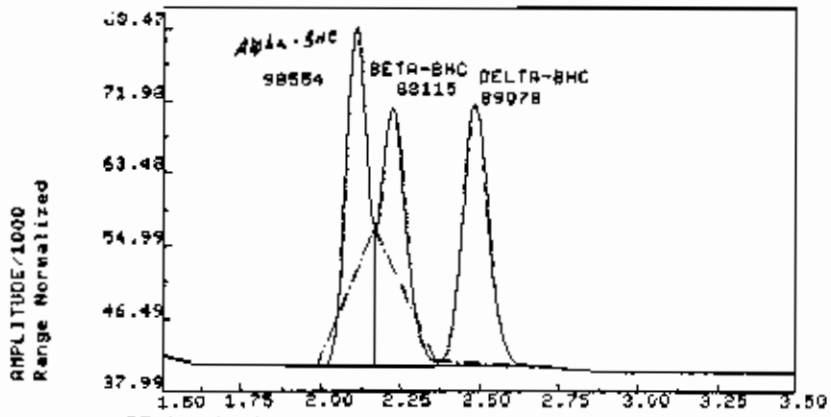
RESULTS OF MANUAL INTEGRATION FROM CPLOT

RAW DATA FILE: R22601--22

INJECTED AT: 17:22:00 On NOV 20, 1989

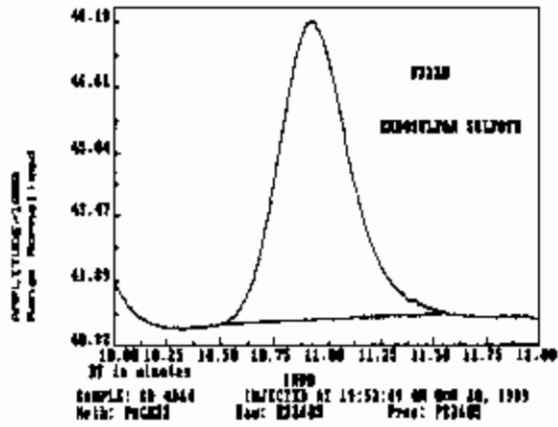
RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	8.14	8.93	32361	100.0



P22605

INDB
 SAMPLE: SD 4364 INJECTED AT 19:52:49 ON NOV 20, 1989
 Meth: PACK22 Raw: R22605 Proc: P22605



Lu for print (1)?

RESULTS OF MANUAL INTEGRATION FROM CPLIT

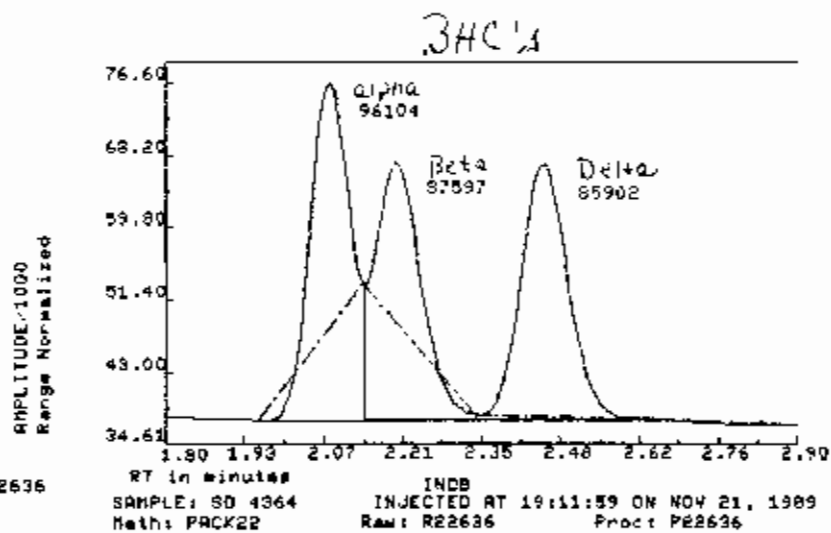
RAW DATA FILE: R22636

INJECTED AT: 19:11:55 ON NOV 21, 1989

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	1.99	2.15	96104	35.6
2	2.15	2.34	87597	32.5
3	2.34	2.61	65902	31.8

Select softkey



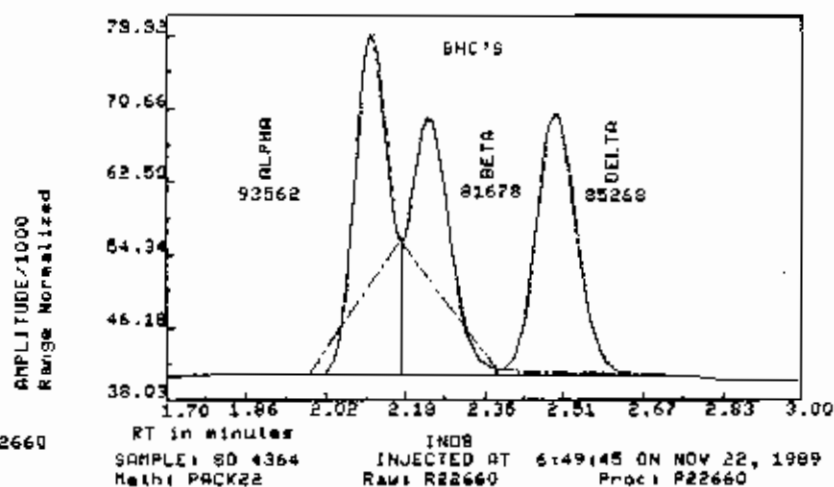
RESULTS OF MANUAL INTEGRATION FROM C PLOT

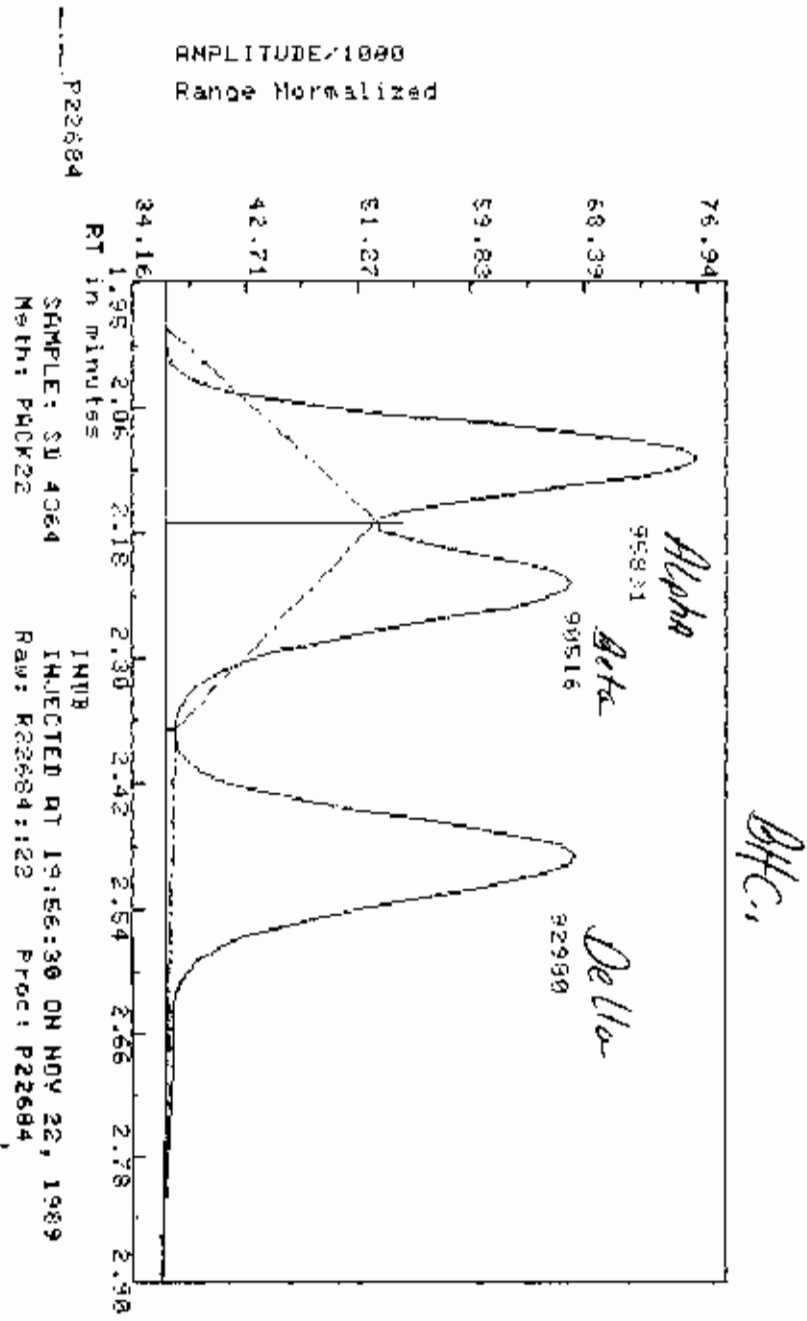
RAW DATA FILE: R22660

INJECTED AT: 6:49:45 ON NOV 22, 1989

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	2.02	2.18	93562	35.9
2	2.18	2.37	81678	31.4
3	2.37	2.65	85268	32.7





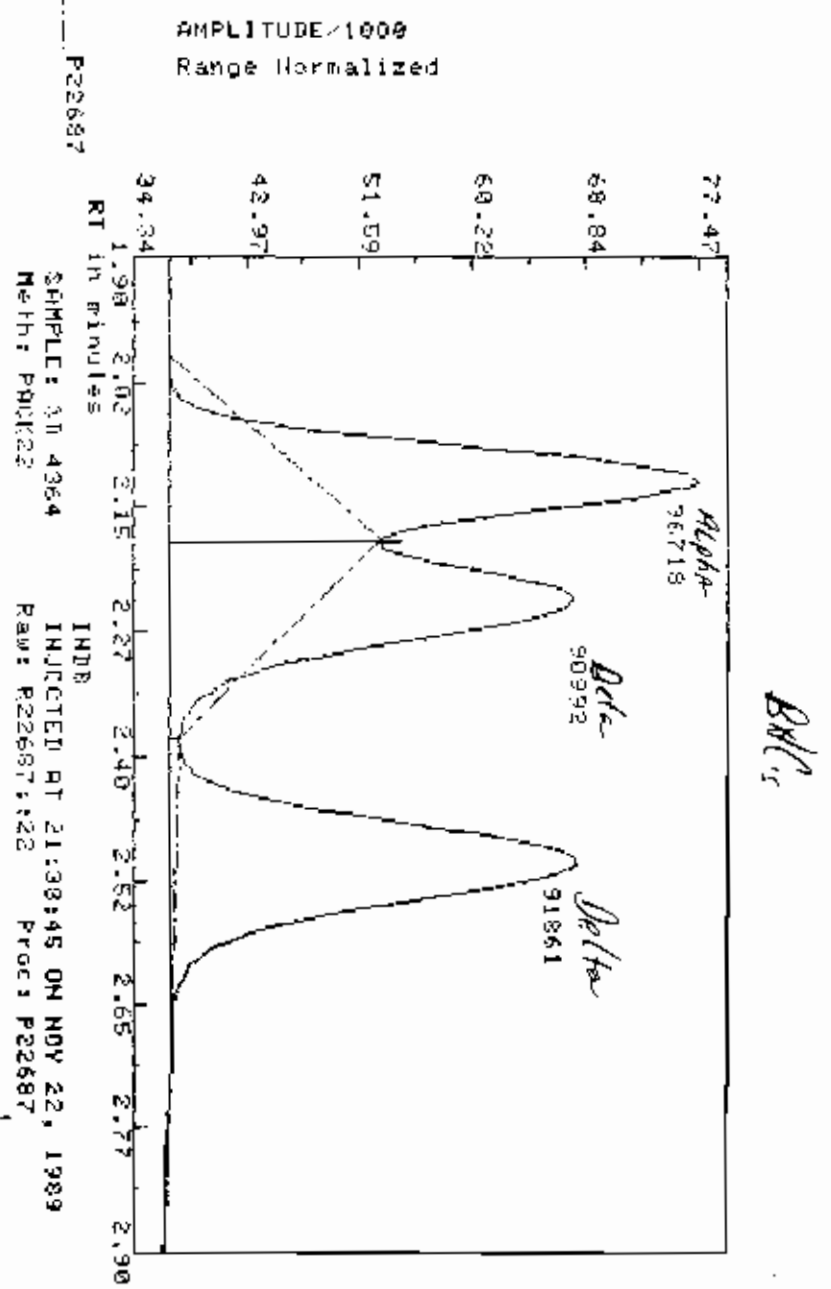
RESULTS OF MANUAL INTEGRATION FROM PLOT

RAW DATA FILE P22684-22

INJECTED AT 19:56:30 ON NOV 22, 1989

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	2.01	2.18	95831	54.3
2	2.18	2.37	91516	32.4
3	2.37	2.77	92740	33.3



B/C

RESULTS OF MANUAL INTEGRATION FROM PLOT

RAW DATA FILE: R22687-1-22

INJECTED AT: 21:38:45 ON NOV 22, 1967

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	2.02	2.18	96710	34.6
2	2.18	2.38	90792	32.5
3	2.38	2.68	91061	32.9

**PESTICIDE
DATA
FOR
SECTION
I**

STANDARD COMPOUND CONCENTRATIONS

STD INDA	CONC(ug/ml)
Gamma BHC	0.010
Heptachlor	0.010
Aldrin	0.010
Gamma Chlordane	0.010
Endosulfan I	0.010
Dieldrin	0.020
Endosulfan II	0.040
pp' DDT	0.050
pp' Methoxychlor	0.10

STD INDB		
Alpha BHC	*	0.010
Beta BHC	*	0.020
Delta BHC		0.010
Heptachlor Epoxide		0.010
Alpha Chlordane		0.020
pp' DDE		0.020
Endrin		0.040
pp' DDD		0.040
Endrin Aldehyde		0.040
Endosulfan Sulfate		0.040
Endrin Ketone		0.10

MULTICOMPONENT STANDARDS

AR150	1016	0.30
	1250	0.30
AR1221		1.0
AR1232		0.70
AR1242		0.40
AR1248		0.40
AR1254		0.30
TDKAPH		1.0

EVALUATION MIX STANDARDS

COMPOUND	EVALA	EVALB	EVALC
Aldrin	0.0020	0.0050	0.010
Endrin	0.0050	0.020	0.040
DDT	0.0125	0.030	0.060
DDE	0.020	0.050	0.10

SEQUENCE NAME - SEQ226

CALIB. STD LOT OV-101

L.U. REP 23

CHANNEL # 2

DATE STARTED

INSTRUMENT # 06

DATE FINISHED

TYPE(S) OF ANALYSIS PEST

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
EVALA	01	EVALA		17:22:08 ON NOV 20, 1989
EVALB	02	EVALB		17:49:20 ON NOV 20, 1989
EVALC	03	EVALC		18:16:32 ON NOV 20, 1989
SD 4360	04	INDA		19:25:37 ON NOV 20, 1989
SD 4364	05	INDB		19:52:49 ON NOV 20, 1989
SD TOXA	06	TOKAPH		20:20:01 ON NOV 20, 1989
SD ARMX	07	AR1660		22:07:58 ON NOV 20, 1989
SD 1221	08	AN1221		22:35:11 ON NOV 20, 1989
SD 1232	09	AR1232		23:02:25 ON NOV 20, 1989
SD 1242	10	AR1242		23:29:38 ON NOV 20, 1989
SD 1248	11	AR1248		23:56:53 ON NOV 20, 1989
SD 1254	12	AR1254		0:24:07 ON NOV 21, 1989
PP 303370 B1	13	18427 1	PBLK39	0:51:22 ON NOV 21, 1989
PP 302185 O	14	18427 1	POT-1	1:18:37 ON NOV 21, 1989
PP 302181 SS	15	18427 1	POT-1MS	1:45:53 ON NOV 21, 1989
PP 302183 SS	16	18427 1	POT-1MSD	2:13:09 ON NOV 21, 1989
PP 302184 BS	17	18427 1	BS	2:40:25 ON NOV 21, 1989
EVALB	18	EVALB		3:07:42 ON NOV 21, 1989
PP 302177	19	18427 1	SOIL-PB-1	3:34:55 ON NOV 21, 1989
CP 302043 B	20	18410 1	PBLK01	4:02:07 ON NOV 21, 1989
CP 301878	21	18410 1	738001-11	4:29:19 ON NOV 21, 1989
CP 301881	22	18410 1	738001-04	4:56:32 ON NOV 21, 1989
PP 303176 B1	23	18410 5	PBLK19	5:23:45 ON NOV 21, 1989
SD 4360	24	INDA		5:50:58 ON NOV 21, 1989
PP 303177 B2	25	18410 5	PBLK20	6:18:12 ON NOV 21, 1989

PP 301926RSS	26	18410 5	738001-01MS	6:45:26 ON NOV 21, 1989
PP 301927RSS	27	18410 5	738001-01MSD	7:12:41 ON NOV 21, 1989
PP 301928RBS	28	18410 5	BS	7:39:56 ON NOV 21, 1989
PP 302506	29	17860 501	GW-01-AR	16:01:29 ON NOV 21, 1989
EVALB	30	EVALB		16:28:40 ON NOV 21, 1989
PP 302607	31	17860 501	GW-0204AD	16:55:53 ON NOV 21, 1989
PP 302608	32	17860 501	GW-1001-A	17:23:05 ON NOV 21, 1989
PP 302609	33	17860 501	GW-0202-A	17:50:18 ON NOV 21, 1989
PP 302813 B2	34	17860 501	PBLK18	18:17:32 ON NOV 21, 1989

SEQUENCE NAME - SEQ226

CALIB. STD LOT OV-101

L.U. REF 23

CHANNEL # 2

DATE STARTED _____

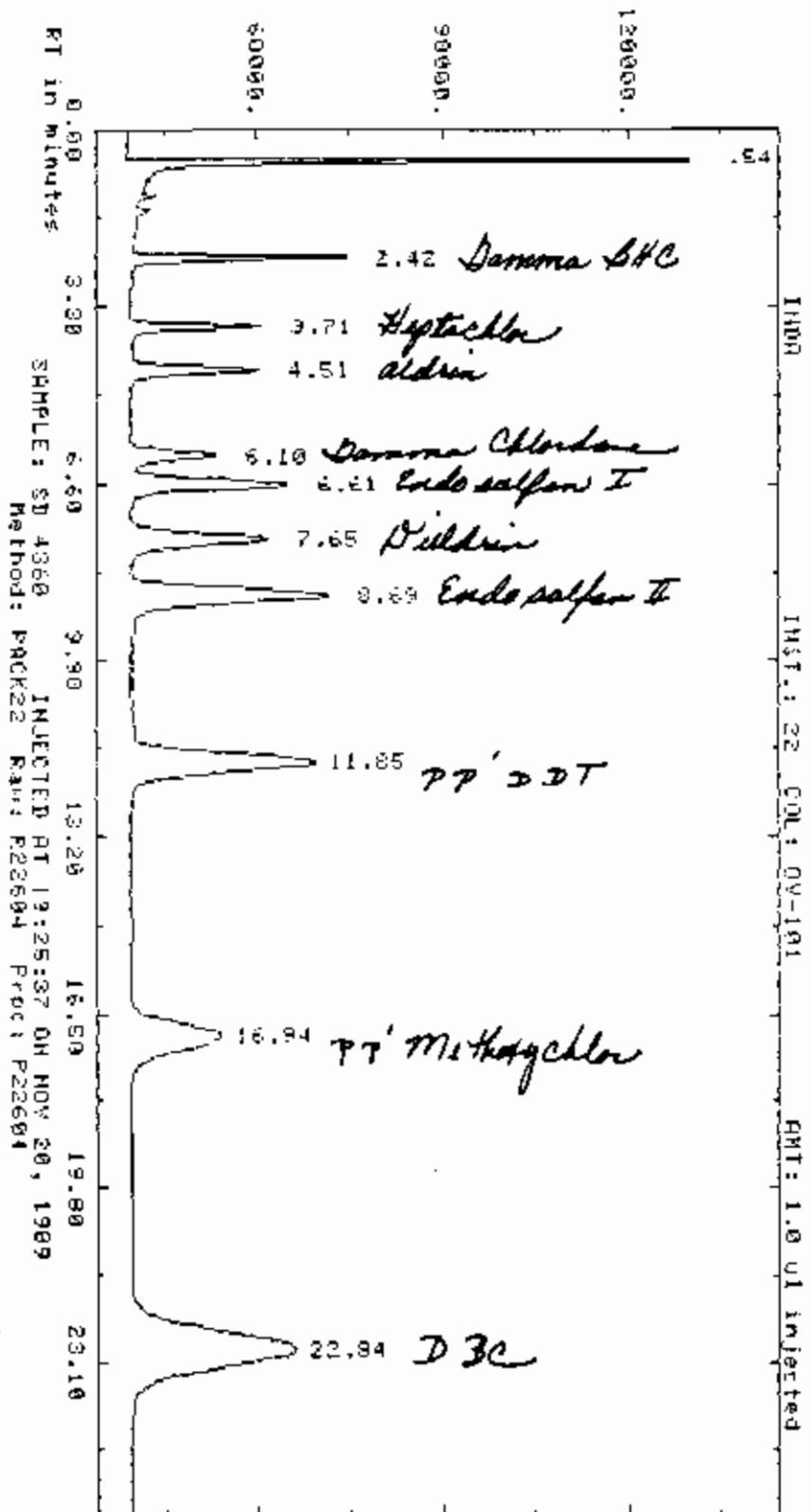
INSTRUMENT # 06

DATE FINISHED _____

TYPE(S) OF ANALYSIS PEST

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
PP 302610	35	17860 501	GW-0201-A	18:44:45 ON NOV 21, 1989
SD 4364	36	INDB		19:11:59 ON NOV 21, 1989
PP 302611	37	17860 501	GW-1003-A	19:39:14 ON NOV 21, 1989
PP 302612	38	17860 501	GW-0203-A	20:06:29 ON NOV 21, 1989
PP 301938 R	39	18410 5	738001-10	20:33:44 ON NOV 21, 1989
PP 302065 SS	40	17860 501	GW-0304-AMSD	21:01:00 ON NOV 21, 1989
PP 303177 B2	41	18410 5	PBLK20	21:28:16 ON NOV 21, 1989
EVALB	42	EVALB		21:55:32 ON NOV 21, 1989
PP 302613	43	17860 501	GW-1002-A	22:22:49 ON NOV 21, 1989
PP 303176 B1	44	18410 5	PBLK19	22:50:02 ON NOV 21, 1989
CP 303371 B2	45	18358 1	PBLK40	0:01:11 ON NOV 22, 1989
PP 302613	46	17860 501	GW-1002-A	0:28:23 ON NOV 22, 1989
PP 302813 B2	47	17860 501	PBLK18	0:55:36 ON NOV 22, 1989
SD 4360	48	INDA		1:22:49 ON NOV 22, 1989
PP 303492 B1	49	18452 1	PBLK43	1:50:02 ON NOV 22, 1989
PP 303099 O	50	18452 1	ASCAE0301	2:17:16 ON NOV 22, 1989
PP 303106 SS	51	18452 1	ASCAE0301MS	2:44:30 ON NOV 22, 1989
PP 303107 SS	52	18452 1	ASCAE0301MSD	3:11:45 ON NOV 22, 1989
PP 303108 BS	53	18452 1	BS	3:39:00 ON NOV 22, 1989
EVALB	54	EVALB		4:06:15 ON NOV 22, 1989
PP 303110	55	18452 1	ACFB0401	4:33:30 ON NOV 22, 1989
PP 303112	56	18452 1	ACSAE0101	5:00:46 ON NOV 22, 1989
PP 303113	57	18452 1	ACSAE0201	5:28:03 ON NOV 22, 1989
PP 303114	58	18452 1	ACSAE0391	5:55:19 ON NOV 22, 1989
PP 303115	59	18452 1	ACSAE0401	6:22:33 ON NOV 22, 1989

SD 4364	60	INDB		6:49:45 ON NOV 22, 1989
PP 3D3493 B2	61	17860 471	PBLK44	7:16:57 ON NOV 22, 1989
PP 301869 R	62	17860 471	GW-13D4-A	7:44:10 ON NOV 22, 1989
PP 301875 R	63	17860 471	GW-1104-A	8:11:23 ON NOV 22, 1989
PP 301876 R	64	17860 471	GW-1105-A	8:38:36 ON NOV 22, 1989
PP ALUM BK68	65			9:05:50 ON NOV 22, 1989
EVALB	66	EVALB		9:33:04 ON NOV 22, 1989
PP 4D16 A	67			11:07:04 ON NOV 22, 1989
PP 4D16 B	68			11:34:16 ON NOV 22, 1989

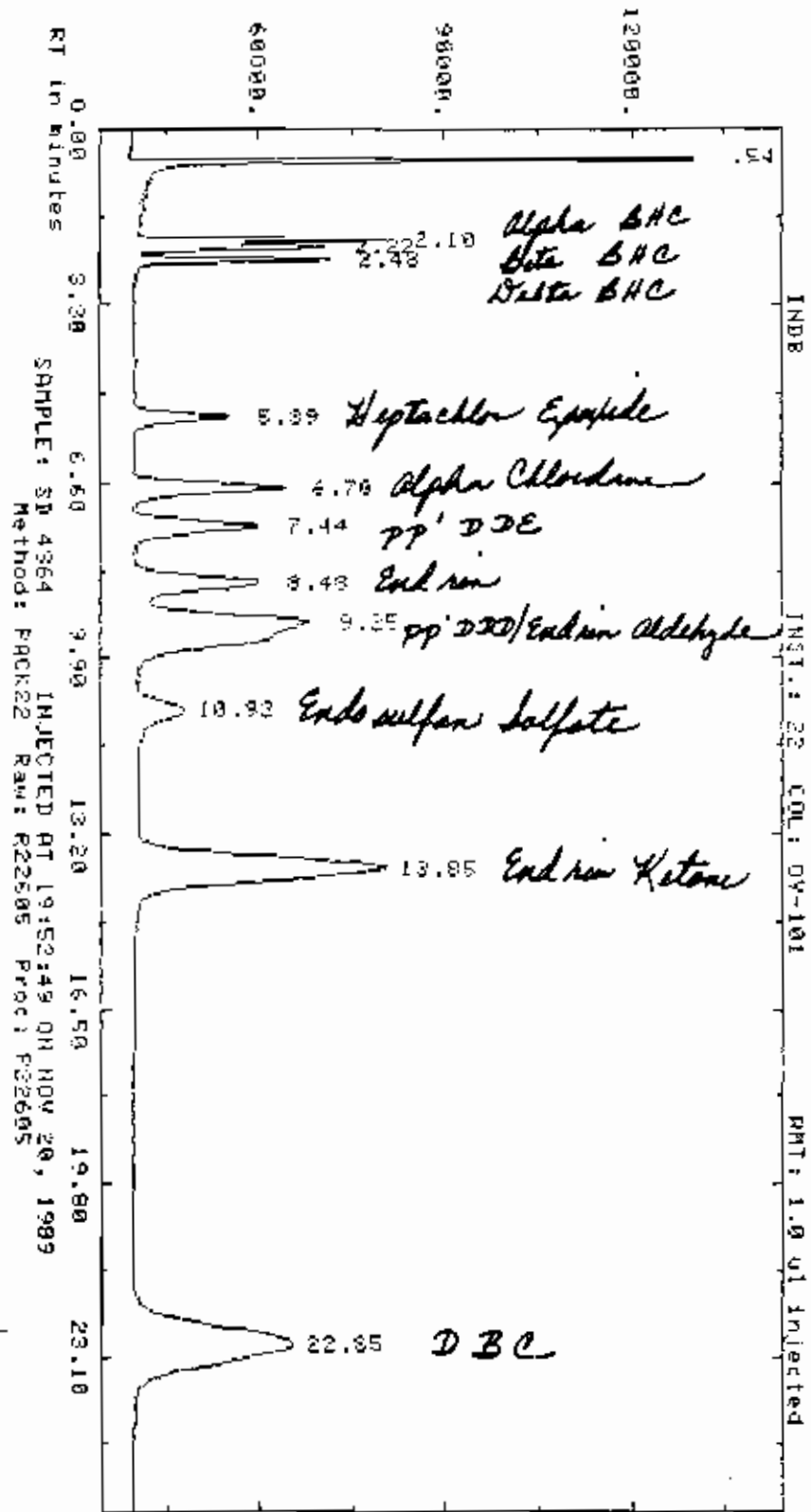


Report: 1575.00 Channel: 22 INDA
 Sample: SD 4360 Injected at 19:25:37 ON NOV 20, 1989
 ZERO Method: PACK22 Seq: SEQ224 Subsq/Samp: 1/ 4 Btl: 4
 Sl-width HV/Min Delay Max-Ap Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-f Iso
 NO 0.00 0 0.30 5.0 100.00 NO
 Actual run time: 26 008 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
5.4	0.00	.100000E+01	434539.	16.084	BB
2.42	0.00	.100000E+01	104735.	3.861	BB
3.71	0.00	.100000E+01	21085.	5.334	BB
4.51	0.00	.100000E+01	188597.	3.727	BB
6.10	0.00	.100000E+01	55367.	3.084	BB
6.61	0.00	.100000E+01	173183.	6.408	BB
7.65	0.00	.100000E+01	188273.	6.672	BB
8.69	0.00	.100000E+01	308327.	11.337	BB
11.05	0.00	.100000E+01	347603.	12.843	BB
16.94	0.00	.100000E+01	218254.	9.213	DB
22.84	0.00	.100000E+01	321395.	23.387	DB

Total Area = 2702889. Total AREA % = 231595.000

Processed data file: P22804 Raw data file: R22804



Report: 1576.00 Channel: 22 INDE
 Sample: SD 4364 Injected at 19:52:49 ON NOV 20, 1969
 ZERO Method: PACK22 Seq: SEQ226 Subsq/Samp: 1/ 5 Btl: 5
 Sl-width MV/Min Delay Min-Ar Bunch
 500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
 NO 0.00 0 0.39 5.0 100.00 NO

Actual run time: 26.008 minutes

Ended not on baseline

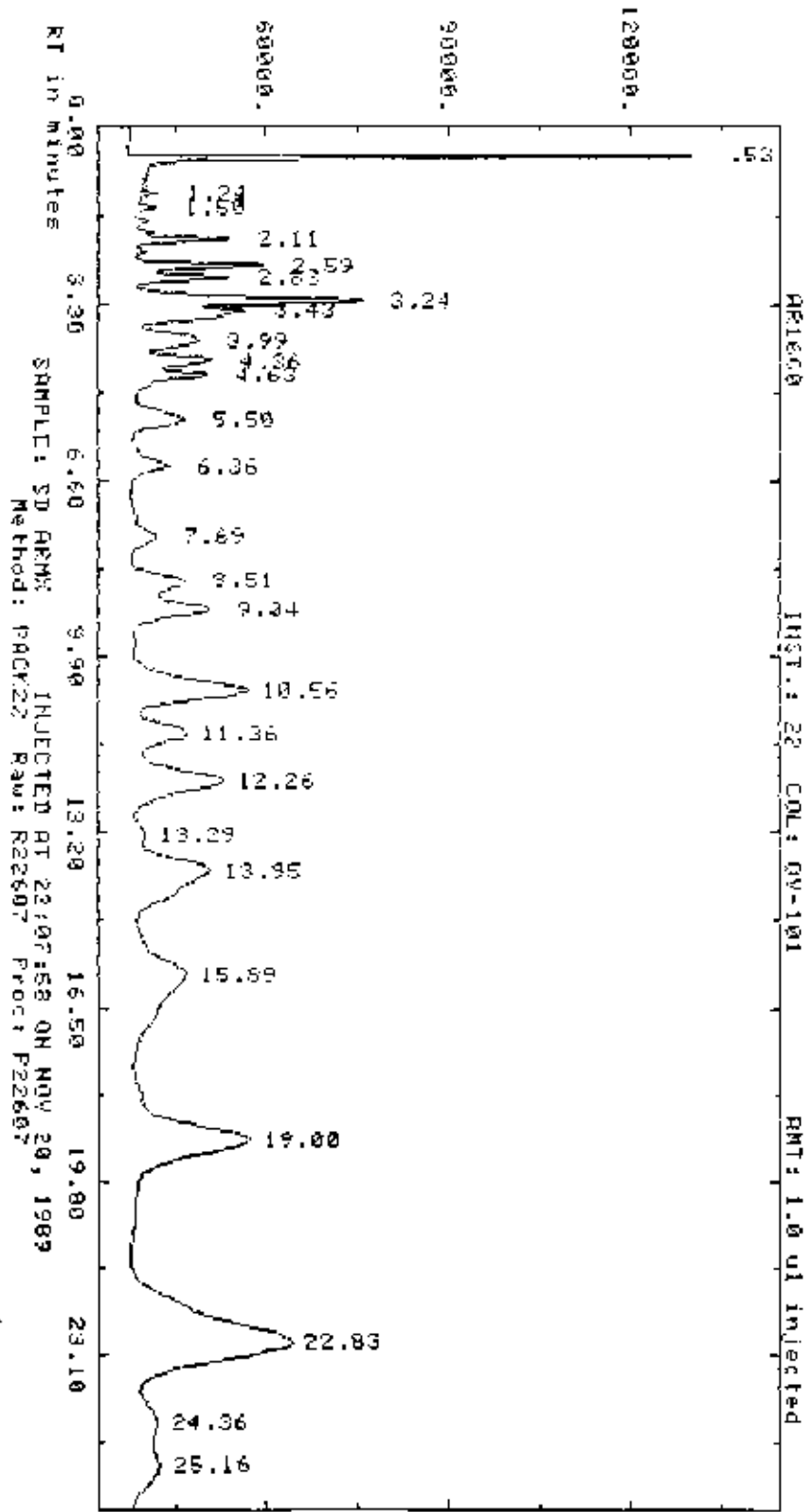
RT	ITH	Factor	Area	AREA %	Name
0.54	0.00	.10000E+01	506792.	16.873	BB
1.10	0.00	.10000E+01	54659.	1.813	BB
2.22	0.00	.10000E+01	35078.	1.163	BB
3.48	0.00	.10000E+01	87313.	2.896	BB
5.37	0.00	.10000E+01	39299.	1.296	BB
6.70	0.00	.10000E+01	174656.	5.772	BB
7.44	0.00	.10000E+01	155237.	5.148	BB
8.48	0.00	.10000E+01	159216.	5.280	BB
9.25	0.00	.10000E+01	454662.	15.078	BB
10.92	0.00	.10000E+01	22167.	0.737	BB
13.03	0.00	.10000E+01	591837.	19.627	BB
22.05	0.00	.10000E+01	613079.	20.332	BF
Total Area =		3015411.	Total AREA % =		613099.000
Processed data file: P22605			Raw data file: R22605		

Report: 1577.00 Channel: 22 TOXAPH
 Sample: SD TOXA Injected at 20:20:01 ON NOV 20, 1969
 ZERO Method: PACK22 Seq: SEQ226 Subseq/Samp: 1/ 6 Btl: 6
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTM %RTM %Dil-r Imp
 NO 0.00 0 30 5.0 100.00 NO
 Actual run time: 26.017 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
5.3	0.00	1.0000E+01	397911.	19.622	BB
7.21	0.00	1.0000E+01	7771.	383	BB
7.34	0.00	1.0000E+01	8388.	411	BB
8.51	0.00	1.0000E+01	54234.	2.674	BB
9.38	0.00	1.0000E+01	12035.	2.112	BB
9.7	0.00	1.0000E+01	92025.	4.538	BB
9.92	0.00	1.0000E+01	51246.	2.675	BB
9.32	0.00	1.0000E+01	23446.	1.156	BB
9.99	0.00	1.0000E+01	114059.	7.103	BB
9.63	0.00	1.0000E+01	34293.	1.691	BB
10.45	0.00	1.0000E+01	170521.	6.352	BB
11.68	0.00	1.0000E+01	18505.	518	BB
12.04	0.00	1.0000E+01	55709.	2.747	BB
12.83	0.00	1.0000E+01	10761.	511	BB
13.60	0.00	1.0000E+01	21282.	1.049	BB
14.06	0.00	1.0000E+01	40070.	1.974	BB
14.71	0.00	1.0000E+01	69573.	3.382	BB
16.63	0.00	1.0000E+01	67555.	3.330	BB
17.38	0.00	1.0000E+01	31160.	1.537	BB
19.09	0.00	1.0000E+01	92119.	4.543	BB
20.93	0.00	1.0000E+01	63786.	3.142	BB
22.81	0.00	1.0000E+01	578949.	28.549	BB

Total Area = 2027385. Total AREA % = 570949.000
 Processed data file: P22606 Raw data file: R22606

AMPLITUDE x.25 uV-seconds (Enlarged x 5.23)



Report: 1578.00 Channel: 22 AR1660

Sample: SD ARMX Injected at 22:07:58 ON NOV 20, 1989

ZERO Method: PCK22 Seq: SEQ226 Subsq/Samp: 1/7 Pti: 7

Sl-width MU/Min Delay Min-Ar Bunch
.500 .500 0.00 5000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW XRTW %Dil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.008 minutes

Ended not on baseline

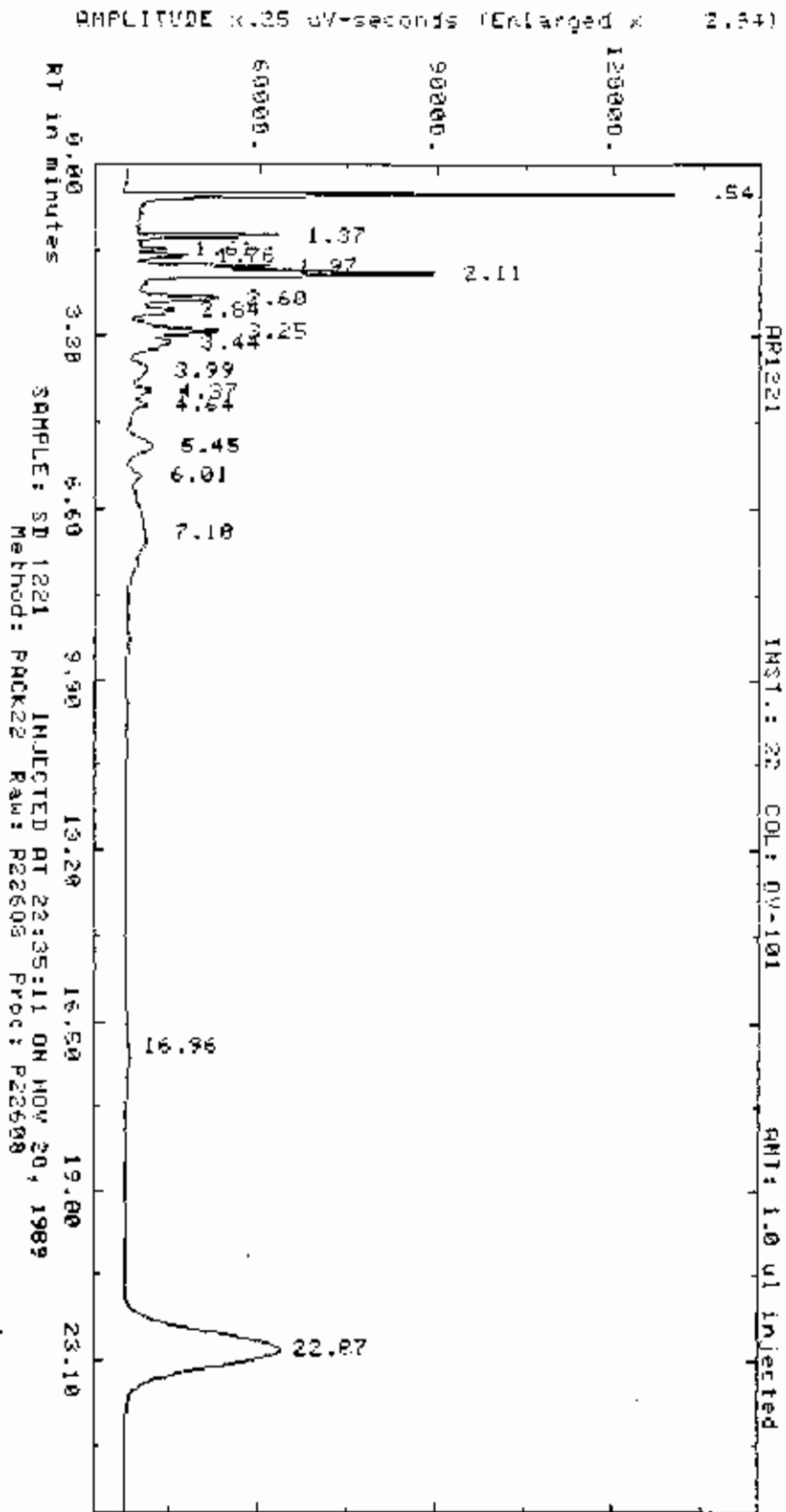
RT	ITN	Factor	Area	AREA %	Name
.53	0.00	.10000E+01	394186.	12.130	BB
1.11	0.00	.10000E+01	5003.	.154	BB
1.50	0.00	.10000E+01	6637.	.205	BB
2.11	0.00	.10000E+01	37963.	1.139	BB
2.59	0.00	.10000E+01	58963.	1.817	BB
3.23	0.00	.10000E+01	30614.	1.190	BB
3.43	0.00	.10000E+01	106992.	3.298	BB
3.99	0.00	.10000E+01	46295.	1.424	BB
4.36	0.00	.10000E+01	65690.	2.025	BB
4.63	0.00	.10000E+01	42756.	1.318	BB
5.50	0.00	.10000E+01	34898.	1.073	BB
6.36	0.00	.10000E+01	73362.	2.276	BB
7.69	0.00	.10000E+01	47194.	1.455	BB
8.51	0.00	.10000E+01	30636.	.944	BB
9.04	0.00	.10000E+01	46453.	1.432	BB
9.84	0.00	.10000E+01	28554.	.881	BB
10.56	0.00	.10000E+01	225966.	6.963	BB
11.36	0.00	.10000E+01	91263.	2.805	BB
12.26	0.00	.10000E+01	185756.	5.725	BB
13.29	0.00	.10000E+01	6177.	.190	BB
13.95	0.00	.10000E+01	221121.	6.816	BB
15.99	0.00	.10000E+01	248090.	7.647	BB
19.00	0.00	.10000E+01	394960.	12.174	BB
22.83	0.00	.10000E+01	704384.	21.711	BB
24.36	0.00	.10000E+01	22914.	.706	BB
26.16	0.00	.10000E+01	40468.	1.247	BB

Total Area = 3244376.

Total AREA % = 40469.250

Processed data file: P22607

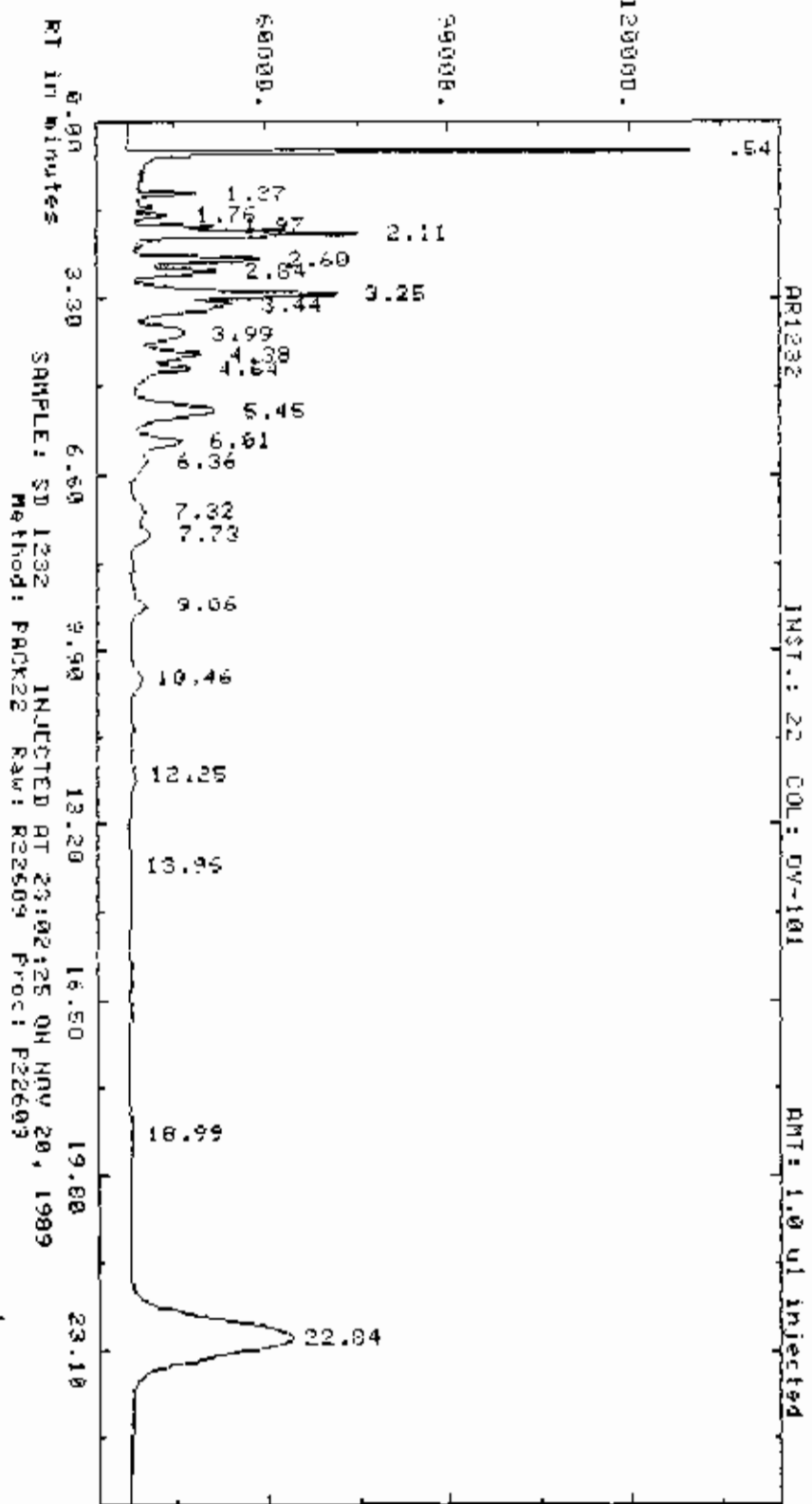
Raw data file: R22607



Report: 1579.00 Channel: 22 AB1221
 Sample: SD 1221 Injected at 22:35:11 ON NOV 20, 1989
 ZERO Method: PACK22 Seq: SEQ226 Subseq/Samp: 1/8 Rtl: 8
 Sl-width MU/Min Delay Min-Ar Puncb
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-F Iso
 NO 0.00 0 30 5.0 100.00 NO
 Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.54	0.00	.10000E+01	304439.	21.442	BB
1.37	0.00	.10000E+01	44398.	3.126	BB
1.61	0.00	.10000E+01	8511.	.599	BB
1.76	0.00	.10000E+01	12799.	1.253	BB
1.97	0.00	.10000E+01	17500.	1.254	BB
2.11	0.00	.10000E+01	100361.	7.208	BB
2.60	0.00	.10000E+01	42782.	3.027	BB
2.84	0.00	.10000E+01	18942.	1.052	BB
3.25	0.00	.10000E+01	43463.	3.061	BB
3.44	0.00	.10000E+01	15650.	1.102	BB
3.99	0.00	.10000E+01	19107.	1.346	BB
4.37	0.00	.10000E+01	13231.	.932	BB
4.64	0.00	.10000E+01	6300.	.444	BB
5.45	0.00	.10000E+01	33954.	2.391	BB
6.01	0.00	.10000E+01	8419.	.593	BB
7.10	0.00	.10000E+01	75710.	5.332	BB
16.96	0.00	.10000E+01	24512.	1.726	BB
22.87	0.00	.10000E+01	626409.	44.112	BF
Total Area = 1420041.			Total AREA % = 626409.000		
Processed data file: P22608			Raw data file: R22608		

AMPLITUDE x.25 u/-seconds (Enlarged x 2.73)



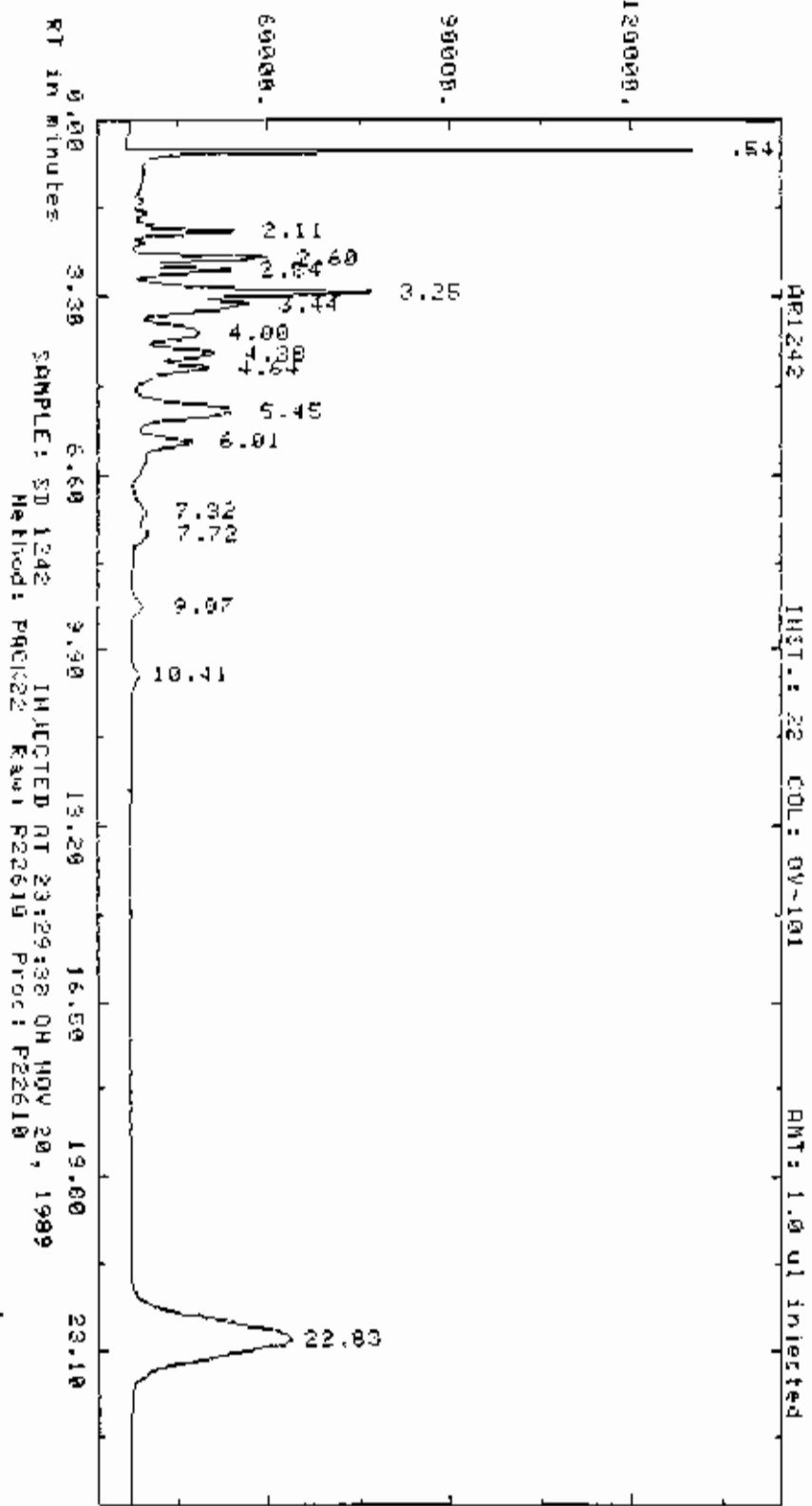
Report: 1380.00 Channel: 22 AK1232
 Sample: SD 1232 Injected at 23:02:25 On NOV 20, 1989
 ZERO Method: PACK22 Seq: SEQ224 Subsq/Samp: 1/ 9 Ptl: 9
 Sl-width NU/Min Delay Min-Ar Bunch
 .500 .300 0.00 3000 Guts
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-f Iso
 NO 0.00 0 30 5.0 100.00 NO

Actual run time: 26.017 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
1.54	0.00	.10000E+01	309409.	BB	18.463
1.37	0.00	.10000E+01	17487.	BB	1.043
1.76	0.00	.10000E+01	11076.	BB	.651
1.97	0.00	.10000E+01	9676.	BB	.579
2.11	0.00	.10000E+01	81346.	BB	4.854
2.60	0.00	.10000E+01	62196.	BB	3.711
2.84	0.00	.10000E+01	34409.	BB	2.058
3.25	0.00	.10000E+01	95316.	BB	5.688
3.44	0.00	.10000E+01	40922.	BB	2.442
3.99	0.00	.10000E+01	62720.	BB	3.746
4.38	0.00	.10000E+01	38112.	BB	2.274
4.64	0.00	.10000E+01	26384.	BB	1.574
5.45	0.00	.10000E+01	114380.	BB	6.835
6.01	0.00	.10000E+01	36793.	BB	2.196
6.36	0.00	.10000E+01	5267.	BB	.314
7.32	0.00	.10000E+01	6063.	BB	.481
7.73	0.00	.10000E+01	14739.	BB	.879
9.06	0.00	.10000E+01	23666.	BB	1.412
10.46	0.00	.10000E+01	23076.	BB	1.378
12.25	0.00	.10000E+01	10044.	BB	.599
13.96	0.00	.10000E+01	8721.	BB	.520
18.99	0.00	.10000E+01	8465.	BB	.506
22.84	0.00	.10000E+01	643436.	BB	38.395

Total Area = 1675844. Total AREA % = 643436.000
 Processed data file: P22609 Raw data file: R22609

AMPLITUDE x.25 uV-seconds (Enlarged x 2.32)



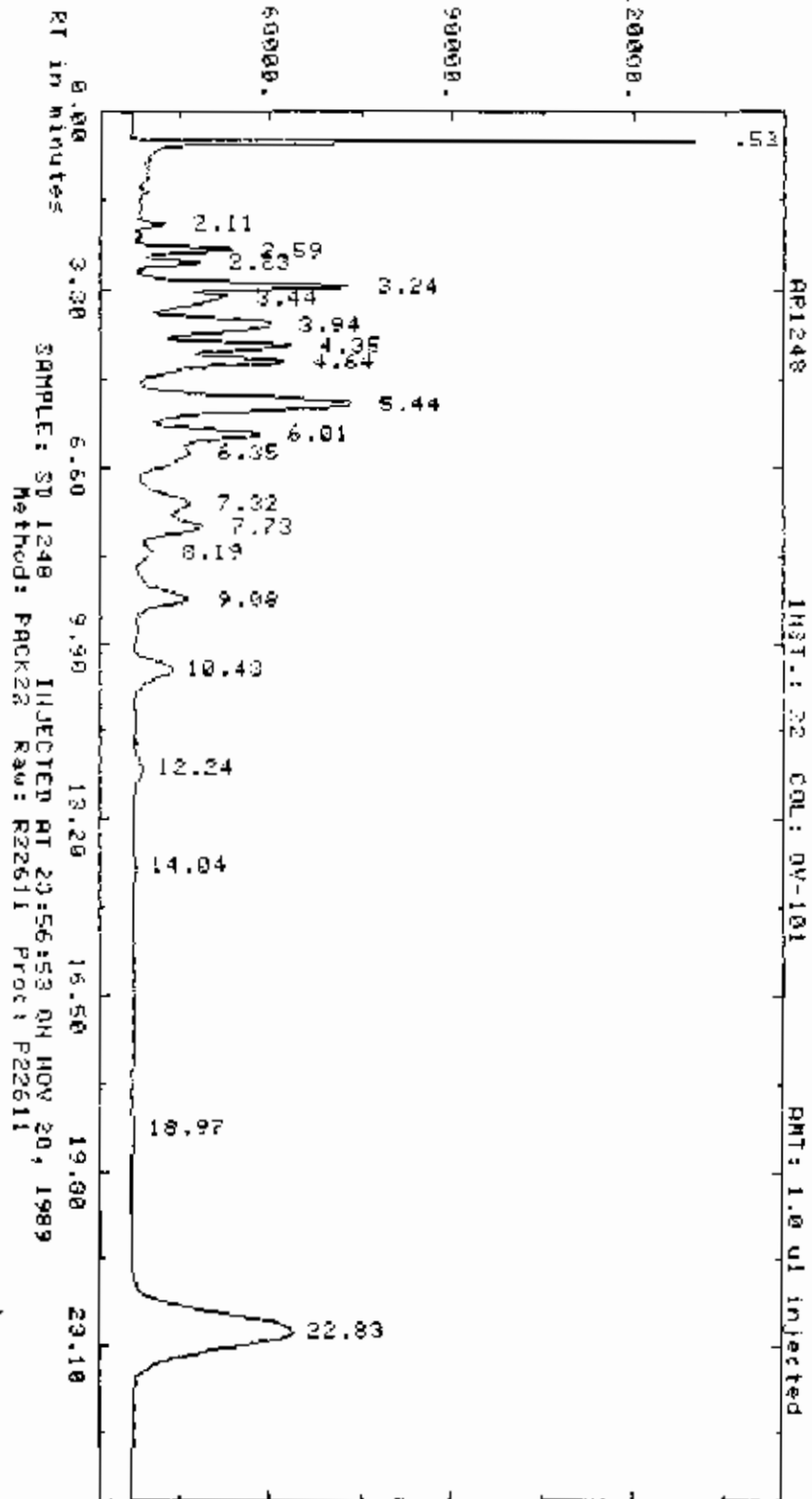
Report: 1504.00 Channel: 22 AR1242
 Sample: SD 1242 Injected at 23:29:38 ON NOV 20, 1989
 ZERO Method: PACK22 Seq: SEQ226 Subseq/Samp: 1/10 Rtl: 10
 Sl-Width MU/Min Delay Min-Ap Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-f Iso
 NO 0.00 0 0.30 5.0 100.00 NO

Actual run time: 26 000 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.54	0.00	.10000E+01	261297.	16.559	BS
2.11	0.00	.10000E+01	39812.	2.523	BE
2.60	0.00	.10000E+01	62901.	3.986	BB
2.84	0.00	.10000E+01	40710.	2.580	BE
3.25	0.00	.10000E+01	110251.	7.031	BB
3.44	0.00	.10000E+01	42267.	2.938	BC
4.00	0.00	.10000E+01	67440.	4.274	BB
4.39	0.00	.10000E+01	45063.	2.856	BD
4.64	0.00	.10000E+01	36787.	2.328	BE
5.45	0.00	.10000E+01	137596.	8.739	BE
6.01	0.00	.10000E+01	47833.	3.032	BB
7.32	0.00	.10000E+01	2916.	.502	BE
7.72	0.00	.10000E+01	11072.	.702	BB
9.07	0.00	.10000E+01	18315.	1.161	BB
10.41	0.00	.10000E+01	13903.	.891	BB
22.83	0.00	.10000E+01	622757.	39.209	BE

Total Area = 1577970. Total AREA % = 629753.000
 Processed data file: P22610 Raw data file: R22610

AMPLITUDE x.25 uV-seconds (Enlarged x 3.36)

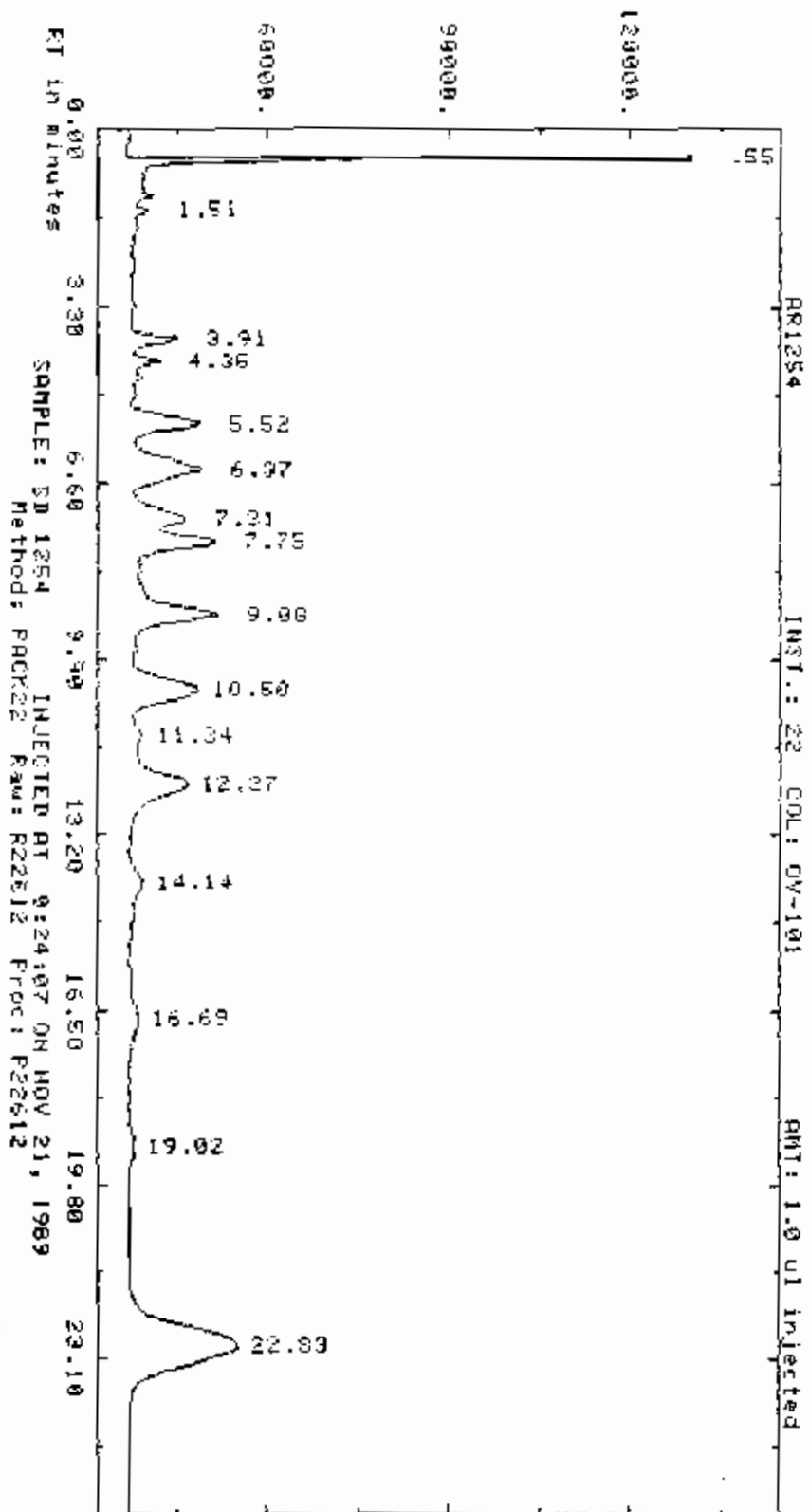


Report: 1582.00 Channel: 22 AP1248
 Sample: SD 1248 Injected at 23:56:53 ON NOV 26, 1987
 ZERO Method: PACK22 Seq: SEQ226 Subseq/Samp: 1/11 BIL: 11
 Sl-width 500 MV/Min .300 Delay 0.00 Min-Ar 5000 Bunch Auto
 Sup-Unk NO DvT 0.00 ID-Lvl 0 Ref-RTW .30 %RTW 5.0 XDi1-P 100.00 Iso NU
 Actual run time: 26.033 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
1.53	0.00	1.0000E+01	328307	17.307	BB
2.11	0.00	1.0000E+01	10777	.480	BB
2.59	0.00	1.0000E+01	46844	2.488	BB
2.83	0.00	1.0000E+01	28326	1.562	BB
3.24	0.00	1.0000E+01	27459	1.444	BB
3.44	0.00	1.0000E+01	37185	1.937	BB
3.94	0.00	1.0000E+01	142661	7.539	BB
4.35	0.00	1.0000E+01	32896	1.745	BB
4.64	0.00	1.0000E+01	80732	4.279	BB
5.44	0.00	1.0000E+01	386357	20.744	BB
6.01	0.00	1.0000E+01	95395	5.066	BB
6.35	0.00	1.0000E+01	18365	.919	BB
7.22	0.00	1.0000E+01	54664	2.931	BB
7.73	0.00	1.0000E+01	43451	2.337	BB
8.19	0.00	1.0000E+01	15185	.796	BB
9.08	0.00	1.0000E+01	52834	2.842	BB
10.43	0.00	1.0000E+01	71876	3.804	BB
12.24	0.00	1.0000E+01	18237	.913	BB
14.04	0.00	1.0000E+01	6713	.358	BB
18.97	0.00	1.0000E+01	6242	.329	BB
22.83	0.00	1.0000E+01	641257	34.581	BB

Total Area = 2247425 Total AREA % = 641257.000
 Processed data file P22611 Raw data file R22611

AMPLITUDE x.25 uV-seconds (Enlarged x 1.70)



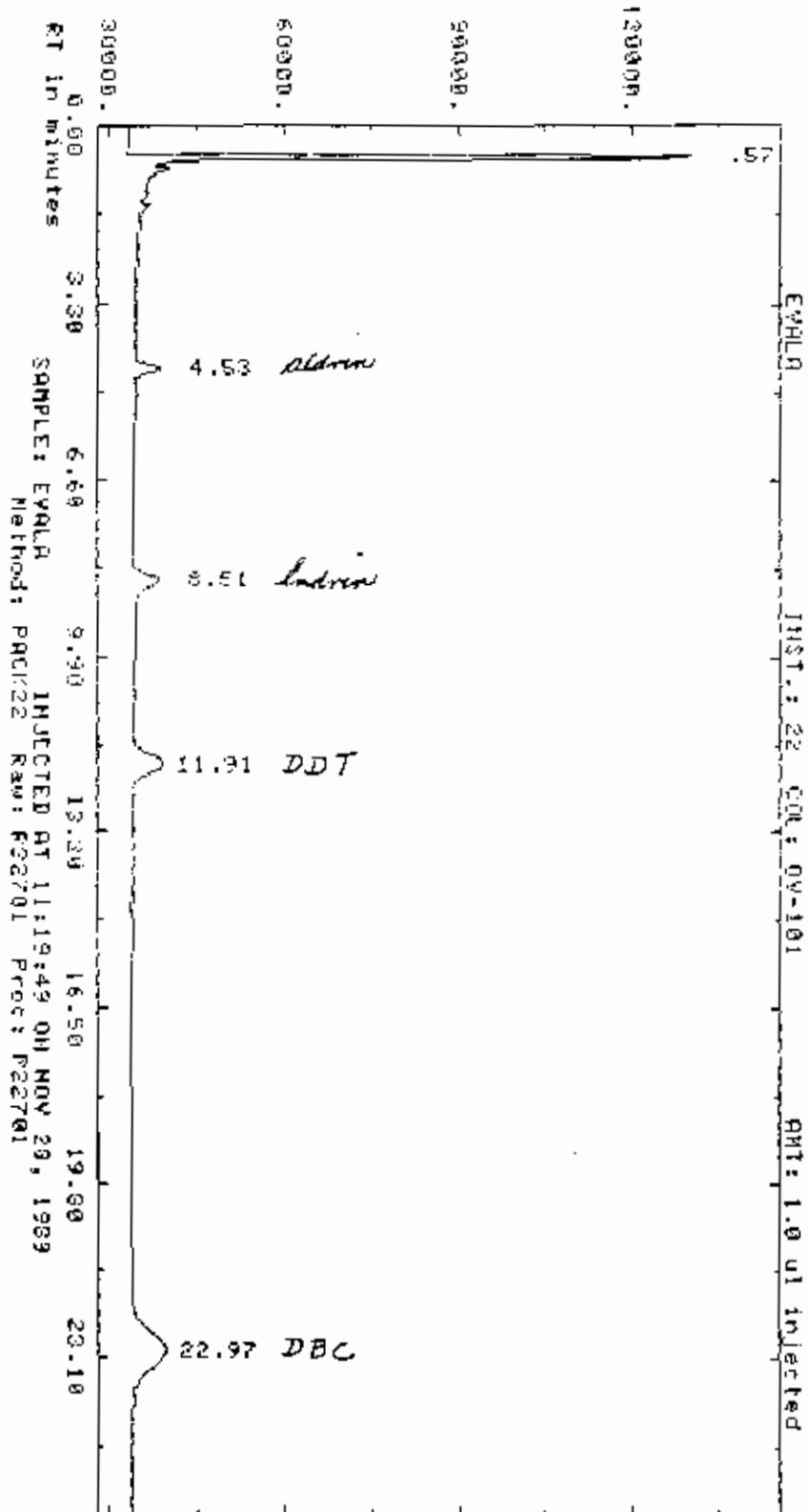
Report: 1583.00 Channel: 22 AR1254
 Sample: SD 1254 Injected at 0:24:07 ON NOV 21, 1989
 ZERO Method: PCK22 Seq: SEQ226 Subsq/Samp: 1/12 Bt1: 12
 Sl-width MV/Min Delay Min-Ap Bunch
 .500 300 0.00 5000 Auto
 Sup-Unk DoT ID-Lvl Ref-RTW %RTW %Dil-f Iso
 NO 0.00 0 30 5.0 100.00 NO

Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
1.55	0.00	.10000E+01	180242	11.735	BB
1.51	0.00	.10000E+01	5407	.352	BB
3.91	0.00	.10000E+01	37267	2.426	BB
4.35	0.00	.10000E+01	10358	1.195	BB
5.52	0.00	.10000E+01	96236	6.445	BB
6.37	0.00	.10000E+01	125380	8.164	BB
7.51	0.00	.10000E+01	38434	2.502	BB
7.75	0.00	.10000E+01	23716	4.799	BB
9.09	0.00	.10000E+01	141242	9.196	BB
10.50	0.00	.10000E+01	141870	9.185	BB
11.34	0.00	.10000E+01	9312	.619	BB
12.27	0.00	.10000E+01	124710	8.120	BB
14.14	0.00	.10000E+01	42487	2.761	BB
16.69	0.00	.10000E+01	32534	2.400	BB
19.02	0.00	.10000E+01	18109	1.179	BB
22.83	0.00	.10000E+01	442948	28.840	BB

Total Area = 1535875. Total AREA % = 442948.000
 Processed data file: P22612 Raw data file: R22612

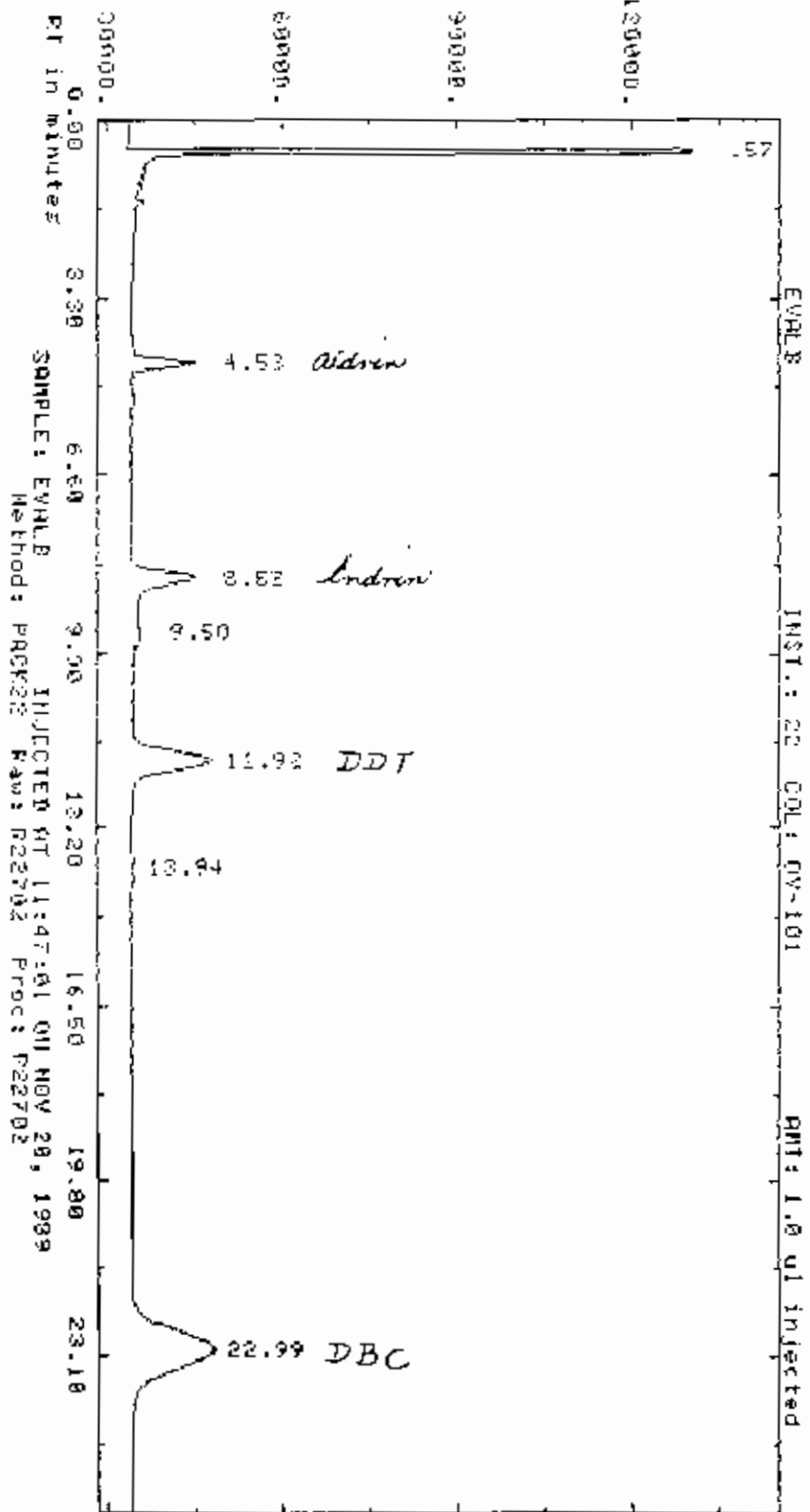
AMPLITUDE x.25 uV-seconds (Enlarge x 1.25)



Report: 1662.00 Channel: 22 EVALA
 Sample: EVALA Injected at 11:17:49 ON NOV 26, 1989
 ZERO Method: PACT22 Seq: 000000 Subseq/Samp: 1/1 B1: 1
 Sl-width 500 HV/Min .300 Delay 0.00 Bin-Gr 5000 Panch Auto
 Sup-Unk NO DvT 0.00 ID-Lvl 0 Ref-R/W 30 ZRM 5.0 MI1-f 100.00 Iso 00
 Actual run time: 26.017 minutes

RT	ITM	Factor	Area	AREA %	Name
.57	0.00	.10000E+01	270994.	BB	50.964
4.53	0.00	.10000E+01	22721.	BB	4.273
8.51	0.00	.10000E+01	57133.	BB	8.993
11.91	0.00	.10000E+01	64023.	BB	12.040
22.97	0.00	.10000E+01	136019.	BB	25.730
Total Area = 531740.			Total AREA % = 136019.000		
Processed data file: P22701			Raw data file: R22701		

AMPLITUDE x.25 uV-seconds (Enlarged x 1.65)



Report: 1663.00 Channel: 22 EVOLE

Sample: EYALE

Injected at 11:47:01 ON NOV 28, 1979

ZERO Method: PACK22 Seq: SEQ227 Sussq/Samp: 1/2 Btl: 2

Sl-width MU/Min Delay Min-Gr Bunch
500 .300 0.00 5000 Auto

Sup-Link DvT ID-Lvl Ref-RTM XRTJ ZD1-F Iso
NO 0.00 0 50 50 100.00 NO

Actual run time: 26.017 minutes

RT	ITH	Factor	Area	AREA %	Name
.57	0.00	.10000E+01	333622. BB	33.491	
4.57	0.00	.10000E+01	55156. BB	5.537	
8.52	0.00	.10000E+01	90652. BB	9.100	
9.50	0.00	.10000E+01	9648. BB	.969	
11.92	0.00	.10000E+01	164992. BB	16.563	
13.94	0.00	.10000E+01	5563. BB	.559	
22.99	0.00	.10000E+01	336525. BB	33.782	

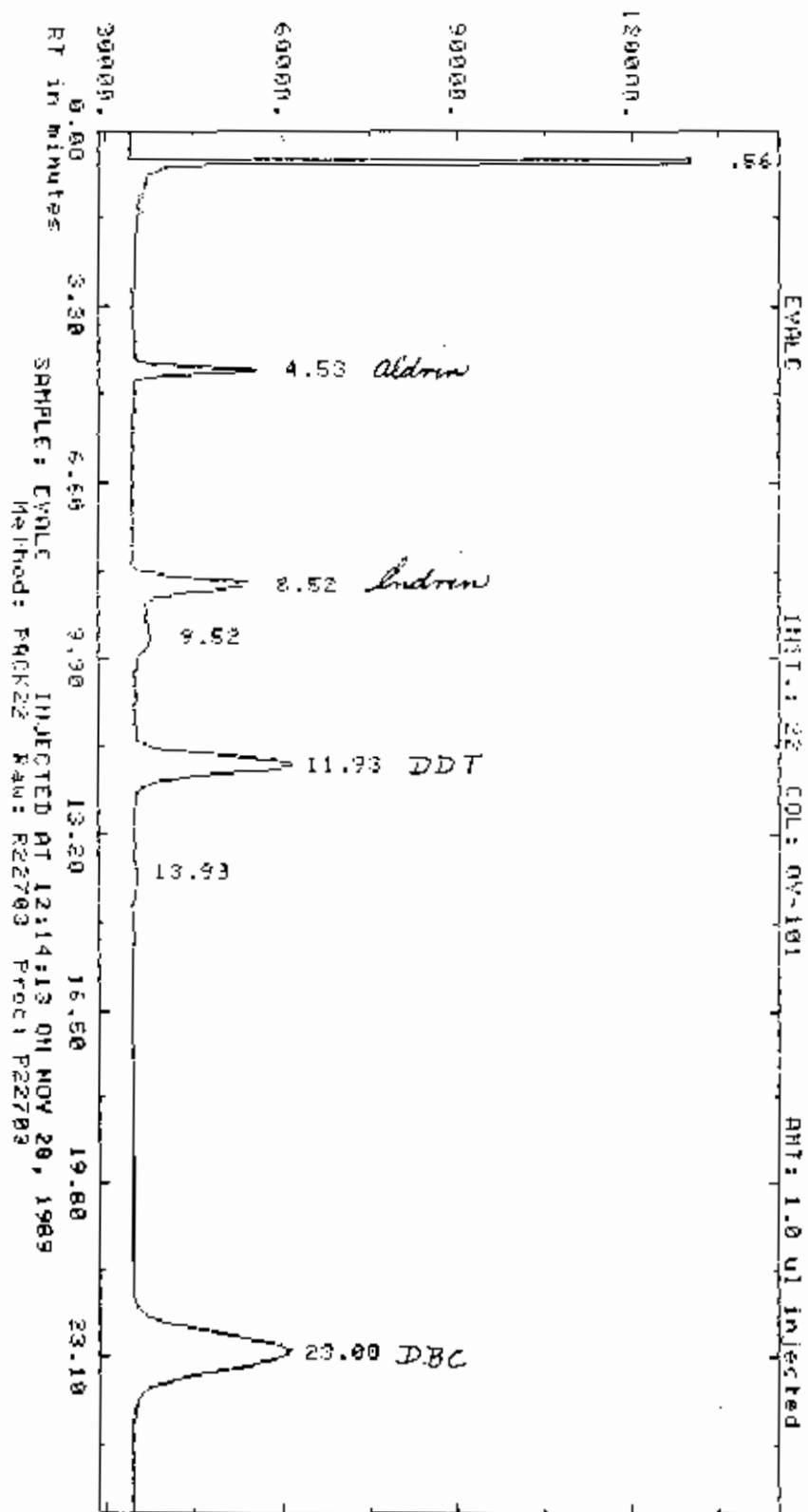
Total Area = 996161.

Total AREA % = 336525.000

Processed data file: P22702

Raw data file: R22702

AMPLITUDE x.25 uV-seconds (Enlarged x 2.63)



Report: 1684 00 Channel: 02

EVALC

Sample: EVALC

Injected at 12:14:13 ON NOV 20, 1987

ZERO Method: PACK22

Seq: SEQ22?

Subsq/Samp: 1/ 1

Pr1: 2

SI-width HU/Min Delay Min-Ar Bunch
500 .300 0.00 5000 Auto

Sup-Unk DVT ID-Lvl Ref-FTW %RIW ZDil-f Iso
NO 0.00 0 0.30 5.0 100.00 NO

Actual run time: 26.008 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
5.56	0.00	.100000E+01	483021.	27.372	BB
4.533	0.00	.100000E+01	105489.	5.928	BB
8.532	0.00	.100000E+01	166024.	9.400	BB
9.52	0.00	.100000E+01	19162.	1.062	BB
11.93	0.00	.100000E+01	332737.	18.856	BB
13.93	0.00	.100000E+01	11652.	.660	BB
23.00	0.00	.100000E+01	646625.	36.643	BB

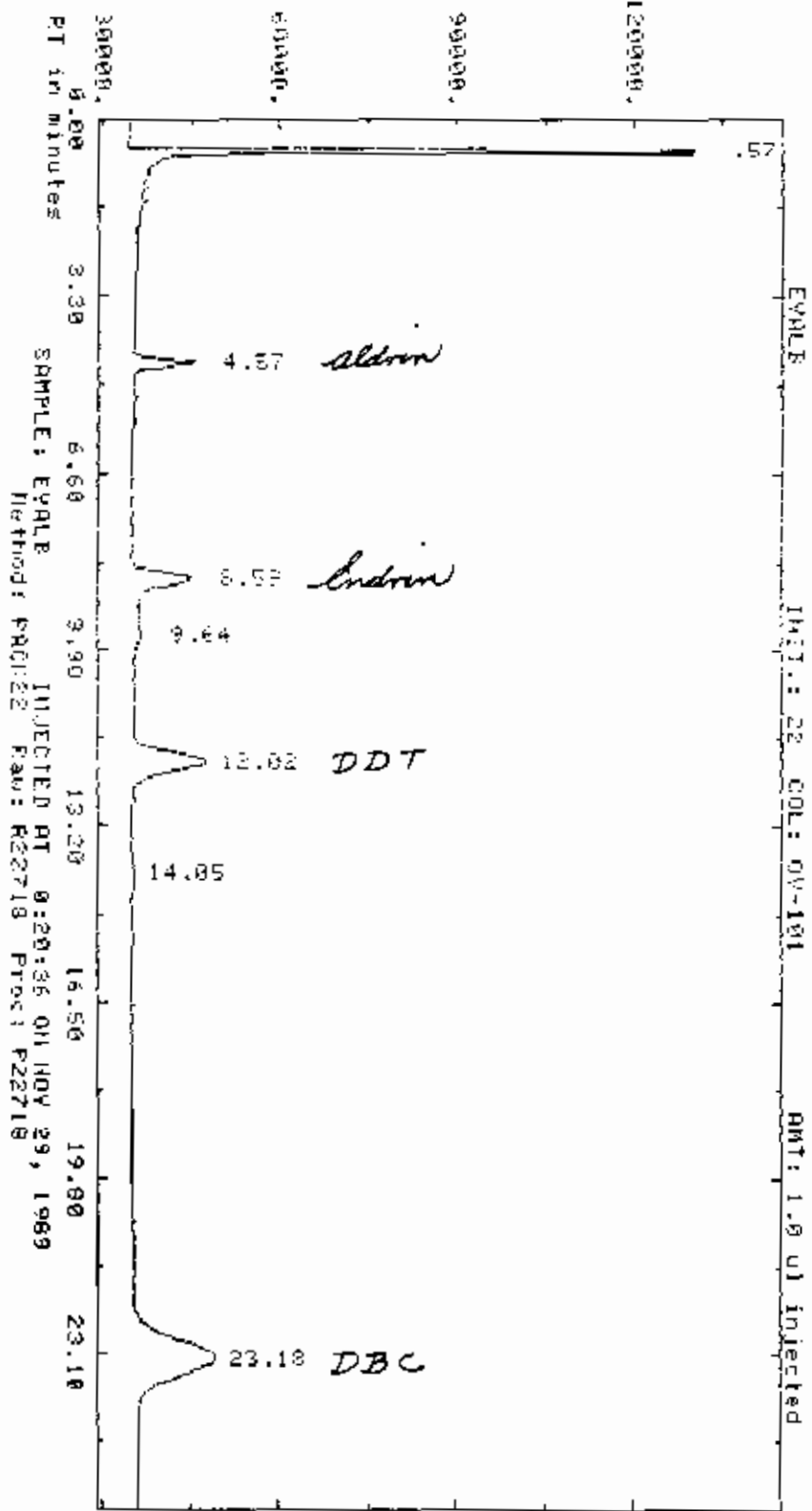
Total Area = 1766650.

Total AREA % = 646625.000

Processed data file: P22700

Raw data file: R22700

AMPLITUDE x.25 uV-seconds (Enlarged x 2.11)



Report: 1679.00 Channel: 22 EVALS

Sample: EVALS Injected at 0:26:36 On Nov 29, 1987

ZERO Method: P00K22 Seq: S0227 Subseq/Samp: 1/18 I11 18

SI-width MV/Min Delay Min-Ar Bench
.500 .300 0.00 5000 Auto

Sup-Link DvT ID-Lvl Ref-RTD %RTH %Dil-F Iso
NO 0.00 0 1.30 5.6 100.00 NO

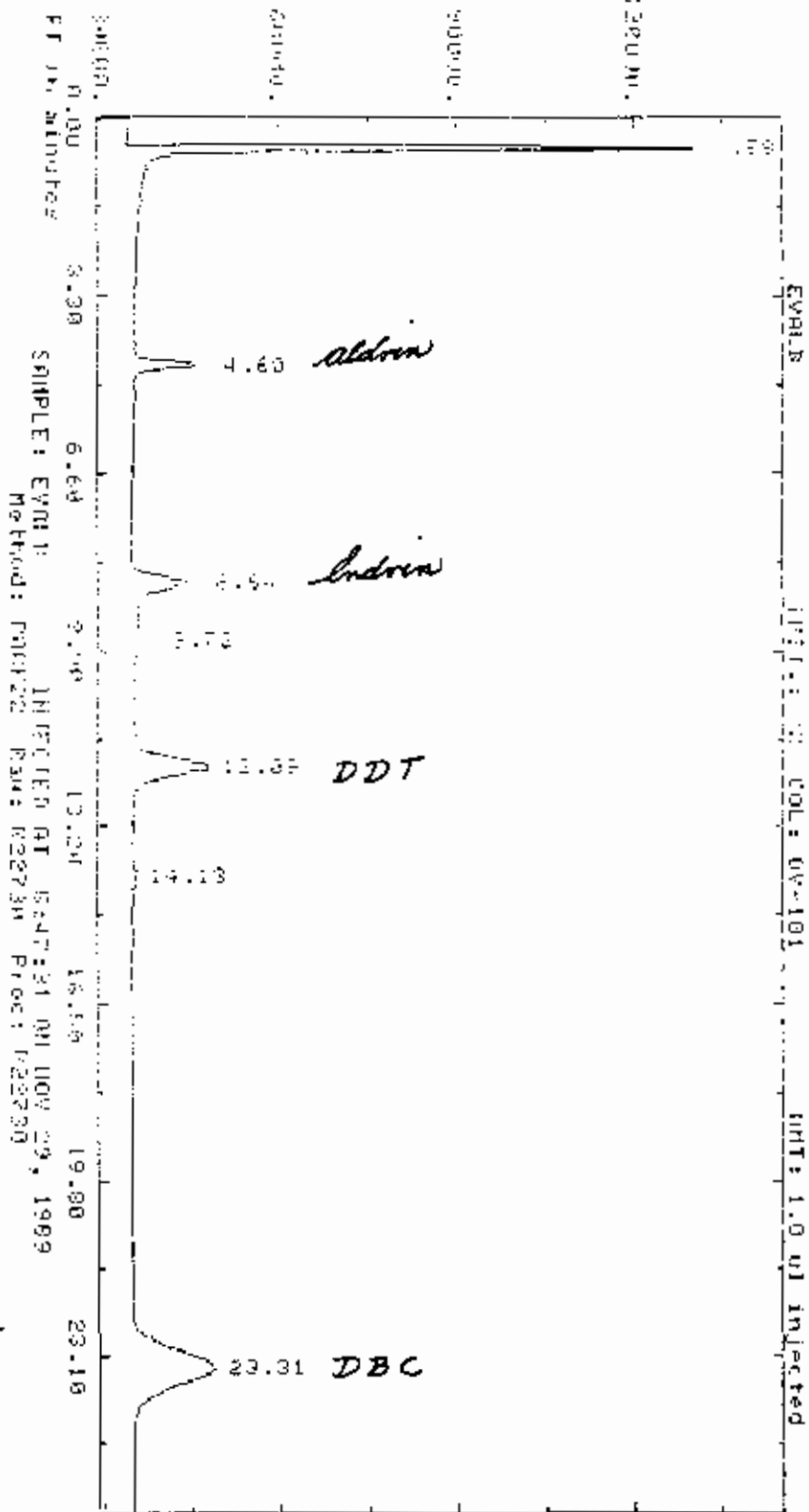
Actual run time: 26.017 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
4.52	0.00	.10000E+01	403827.	BB	41.550
4.57	0.00	.10000E+01	50015.	BB	5.147
8.59	0.00	.10000E+01	83273.	BB	8.570
9.64	0.00	.10000E+01	11425.	BB	1.176
12.02	0.00	.10000E+01	145036.	BB	14.926
14.05	0.00	.10000E+01	6942.	BB	.714
23.18	0.00	.10000E+01	271191.	BB	27.909

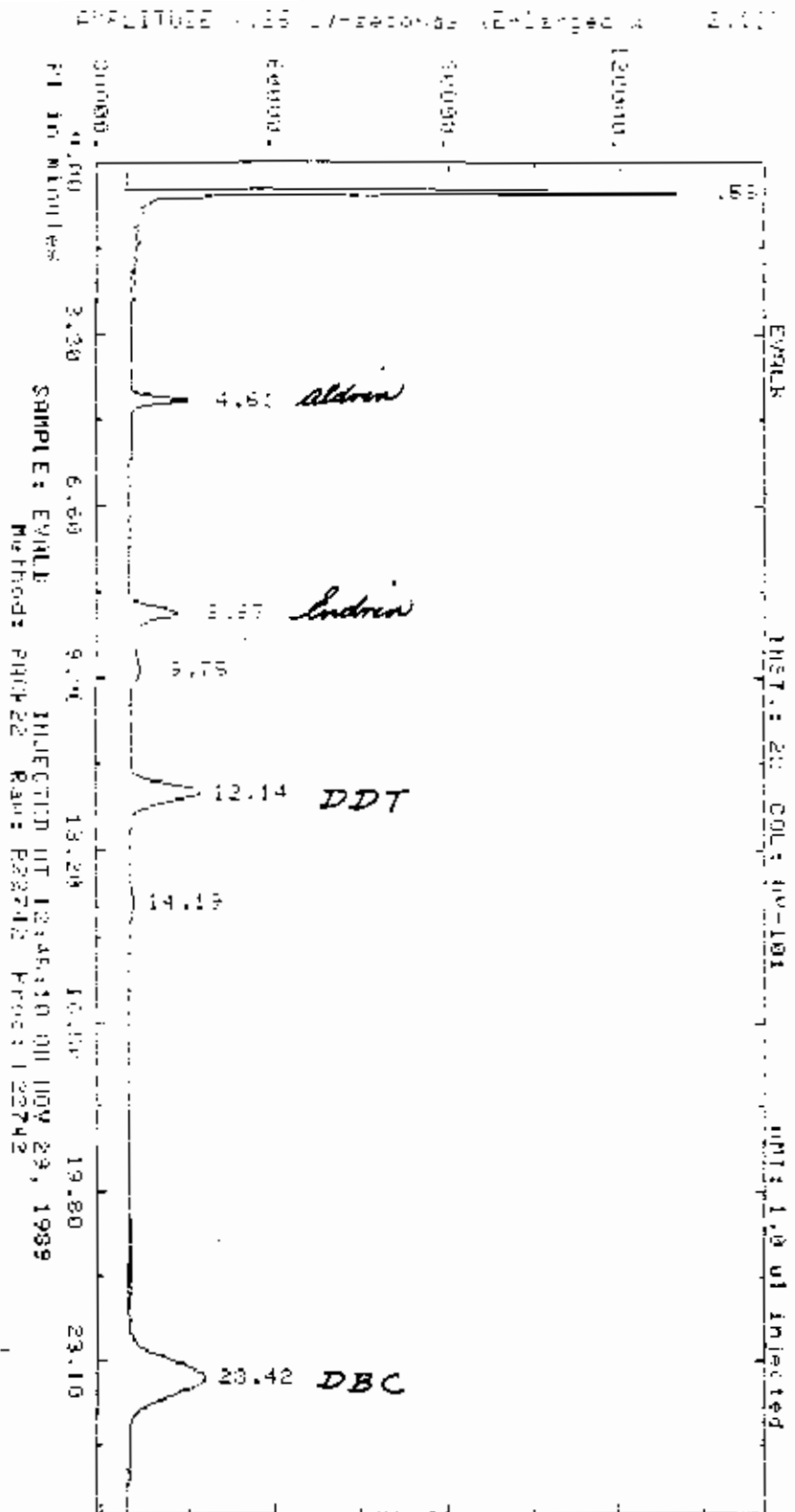
Total Area = 971710. Total AREA % = 271191.000

Preprocessed data file: P022715 Raw data file: R022718



Report: 1691 00 Channel: 22 1.001
 Sample: EVALR Injection: 15.4331 UN exp 29, 1987
 ZGPC Method: PAK722 Sec: 050227 Sample Size: 17.00 6.10 g
 Sl-width 500 HV/Min 0.000 0.00 0.00 0.00
 Sup-Mrk NO Det 0.00 10-.01 0.00 0.00 5.0 100.00 0.0
 Actual run time: 26.07 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	NAME
5.0	0.00	1.0000E+01	434902	40.756	PE
4.60	0.00	1.0000E+01	51339	4.811	PE
6.64	0.00	1.0000E+01	90000	7.316	PE
9.72	0.00	1.0000E+01	10222	0.967	PE
12.09	0.00	1.0000E+01	14000	13.288	PE
14.53	0.00	1.0000E+01	10200	9.61	PE
23.31	0.00	1.0000E+01	10000	9.51	PE
Total Area *		1067100	Total Area % = 20.14%		
Processed data file: P70V01		By: DATA FILE: 121180			



Report: 1004 10 Channel: 02 SCALE

Sample: EUALR

ZERO Method: PAKY02

Sl-Width: 0.300

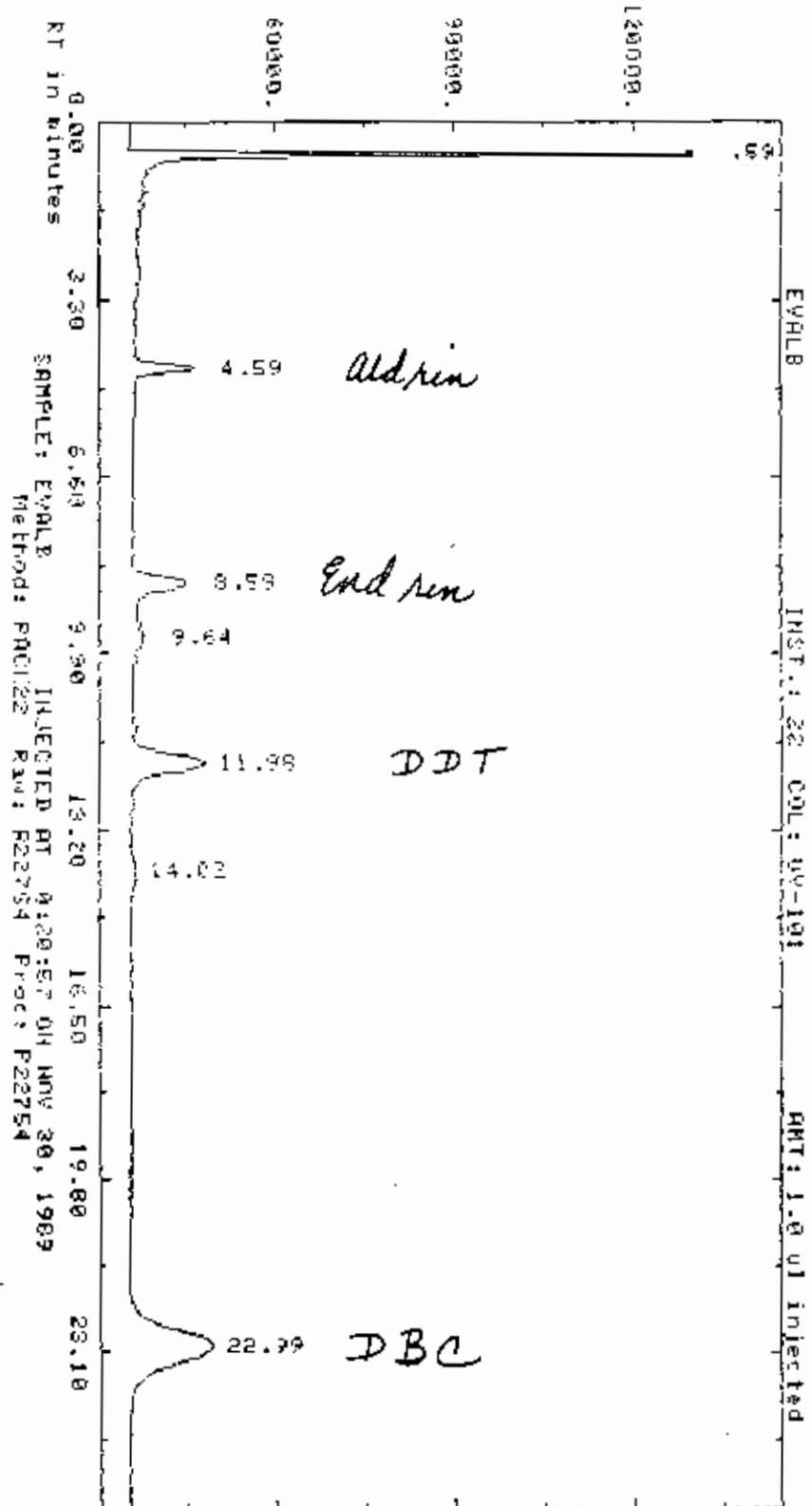
Sup-Link: 0.00

Actual run time: 26.008 minutes

Ended not on baseline

RT	JTM	Factor	Area	Area %	Name
0.58	0.00	1.0000E+01	406593	80	37.409
4.61	0.00	1.0000E+01	55607	88	4.923
8.67	0.50	1.0001E+01	12392	66	7.127
9.75	0.00	1.0000E+01	28977	70	2.651
12.14	0.00	1.0000E+01	12175	18	13.470
14.59	0.00	1.0000E+01	1251	81	1.254
23.42	0.00	1.0000E+01	21073	14	33.212
Total Area =		515700	Area % = 100.000		
Processed data file:		002540	Data file: 014-00254		

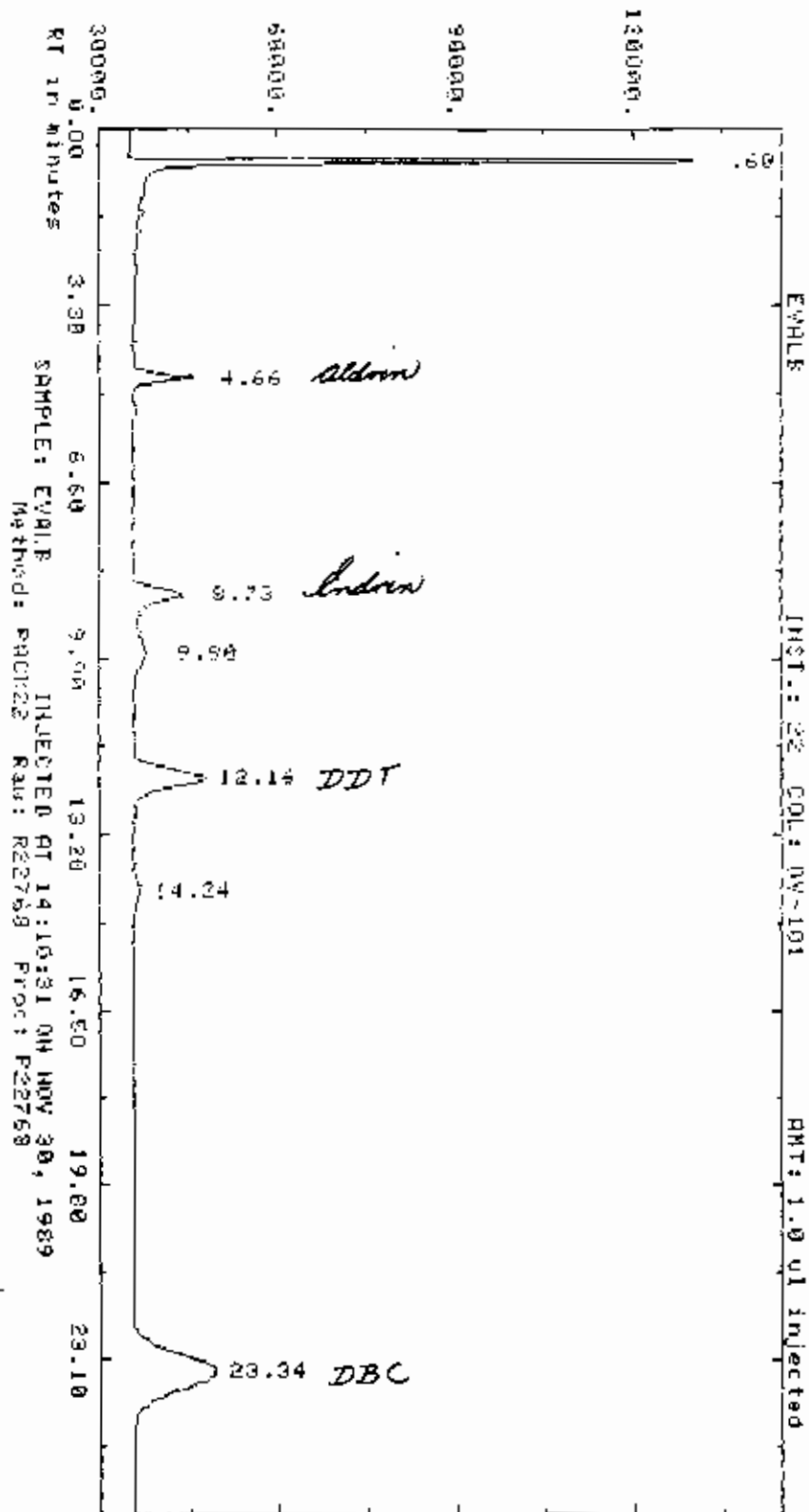
AMPLITUDE x .25 uV-seconds (Enlarged x 2.12)



Report: 1724 00 Channel: 02 EVALB
 Sample: EVALB Injected at 0:20:57 GM NOV 09, 1968
 ZERO Method: PACH22 Seq: SEQ227 Subseq/Comp: 1/54 Btl: 50
 Sl-width 1.500 MV/Min 300 Delay 0.00 Minmax 5000 Bench A910
 Sup-Unk NO DvT 0.00 ID-Lev 0 Ref-RTW .30 ZRT 5.0 SD11-f 100.00 Iso NO
 Actual run time: 26 008 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.59	0.00	.100000E+01	422742.	40.567	BB
4.59	0.00	.100000E+01	49667.	4.746	BB
8.59	0.00	.100000E+01	74835.	7.373	BB
9.64	0.00	.100000E+01	16624.	1.595	BB
11.98	0.00	.100000E+01	140277.	13.461	BB
14.02	0.00	.100000E+01	11727.	1.125	BB
22.99	0.00	.100000E+01	324215.	31.112	BB
Total Area = 1042097.			Total AREA % = 324215.000		
Processed data file: P2275A			Raw data file: R2275A		

AMPLITUDE x.25 uV-seconds (Enlarged x 2.00)



Report: 1730 00 Channel: 22

EVALR

Sample: EVALR

Injected at 14:10 31 ON NOV 30, 1987

ZERO Method: PACE22

Seq: 6ER227

Subsq/Samp: 1/66

B11- 68

Sl-width HU/Min Delay Min Ac Surch
.500 .300 0.00 5000 Auto

Sup-Link Out ID-Lvl Ref-PW ZRTW %Dil-F Use
NO 0.00 0 .30 5.0 100.00 RG

Actual run time: 26.025 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.60	0.00	1.0000E+01	424655. BB	39.632	
4.66	0.00	1.0000E+01	53072. BB	4.953	
8.73	0.00	1.0000E+01	69235. BB	6.527	
9.80	0.00	1.0000E+01	23845. BB	2.235	
12.16	0.00	1.0000E+01	150759. BB	14.070	
14.24	0.00	1.0000E+01	14587. BB	1.361	
23.34	0.00	1.0000E+01	334641. BF	31.231	

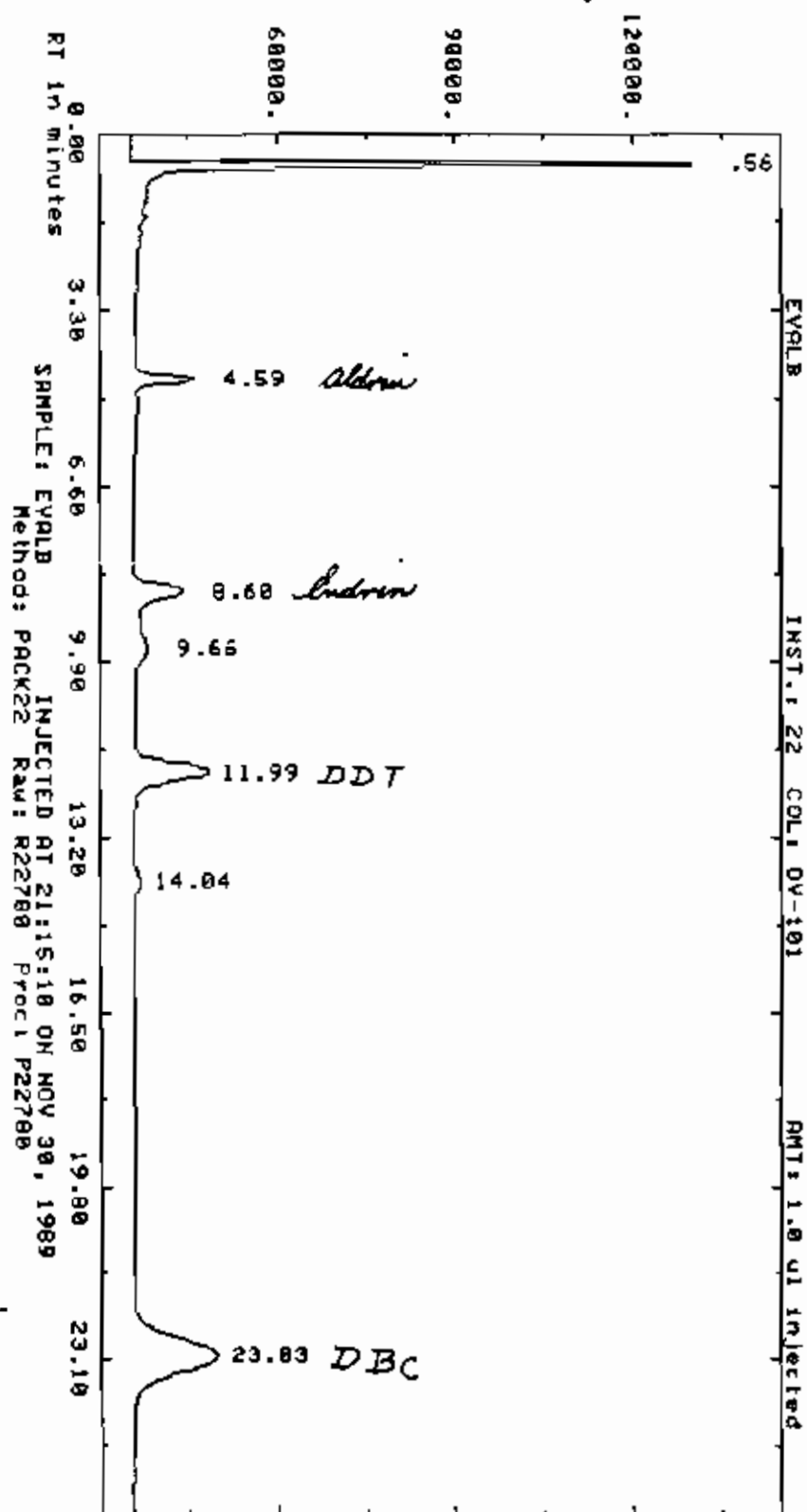
Total Area = 1071494.

Total AREA % = 334641.000

Processed data file: P22768

Raw data file: R22768

AMPLITUDE x.25 uV-seconds (Enlarged x 1.73)



Report: 1751.00 Channel: 22 EVALB

Sample: EVALB Injected at 21:15:10 ON NOV 30, 1989

ZERO Method: PACK22 Seq: SEQ227 Subsq/Samp: 1/80 Rt1: 80

SI-width MU/Min Delay Min-Ar Bunch
.500 .300 0.00 5000 Auto

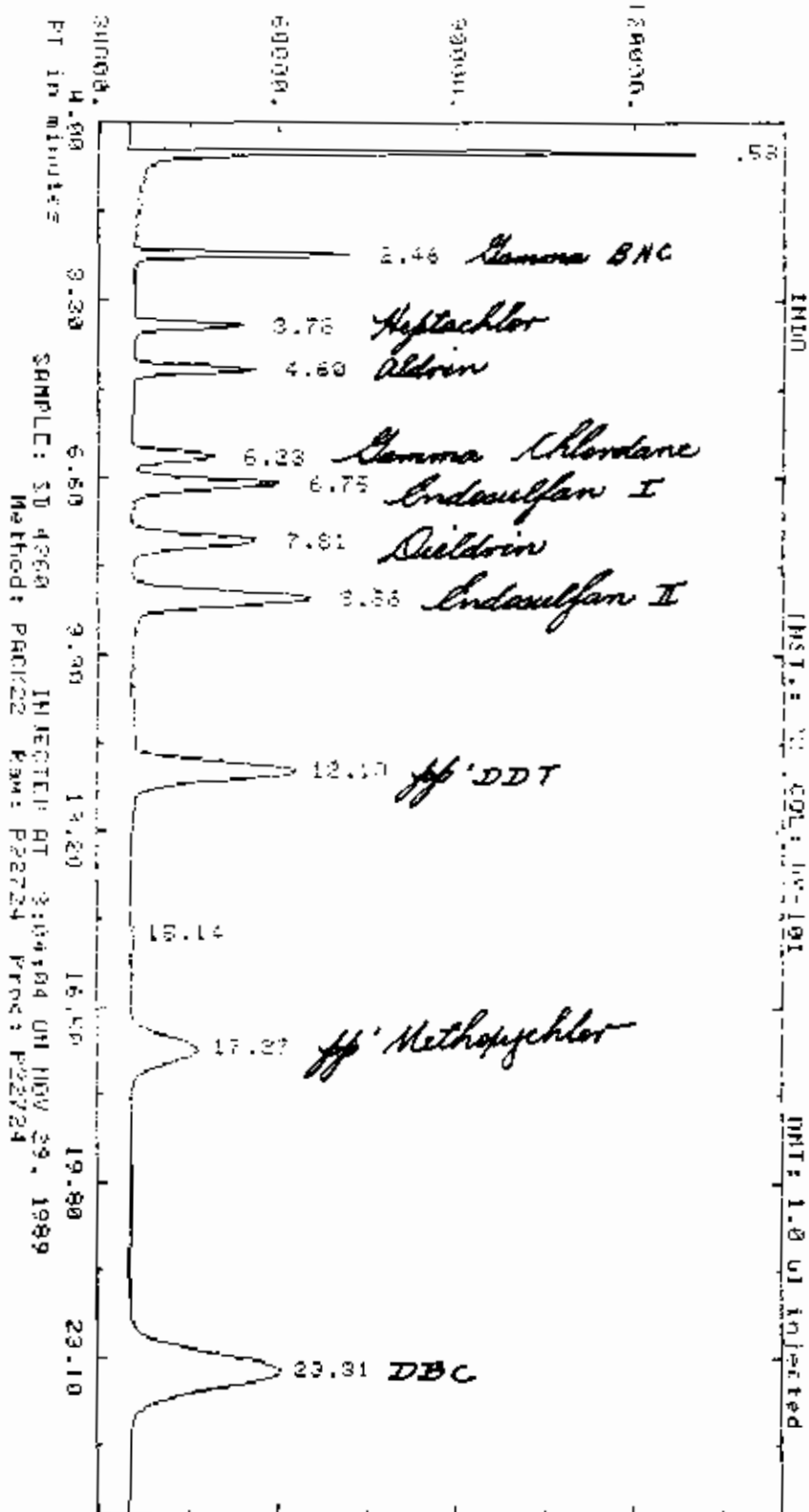
Sup-Unk DvT ID-Lvl Ref-RTW XRTW %Dil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.008 minutes

RT	ITM	Factor	Area	AREA %	Name
.56	0.00	.10000E+01	389262.	37.735	BS
4.59	0.00	.10000E+01	51771.	5.019	BB
8.60	0.00	.10000E+01	70607.	6.845	BB
9.66	0.00	.10000E+01	23462.	2.274	BB
11.99	0.00	.10000E+01	146427.	14.194	BB
14.04	0.00	.10000E+01	15188.	1.472	BB
23.03	0.00	.10000E+01	334858.	32.461	BB
Total Area =		1031576.	Total AREA % =		334858.000
Processed data file: P22780			Raw data file: R22780		

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AMPLITUDE x .25 UV-seconds (Enlarged x 2.25)

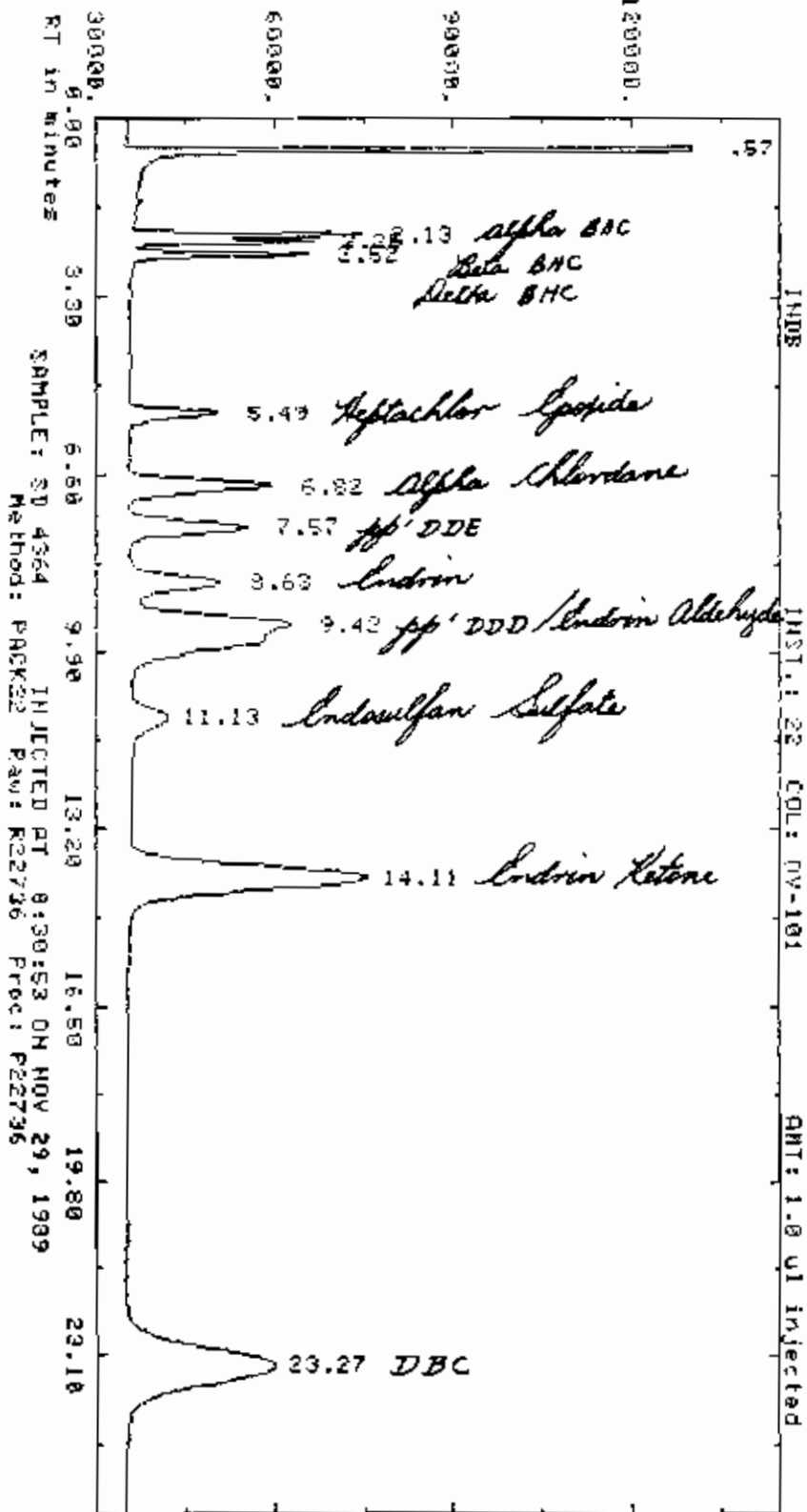


Report: 1685.00 Channel: 22 INDA
 Sample: SD 4340 Injected at 3:04:04 ON NOV 25, 1989
 ZERO Method: PACK22 Fee 500227 Subst/Samp: 1.00 Bri: 24
 Sl-width MU/Min Delay Max-Ar Bunch
 .500 300 0.00 5000 Auto
 Sub-Link DoT TD-Lvl Ref RTW XDist Iso
 NO 0.00 0 3) 5.0 100.00 NO
 Actual run time: 26.003 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.59	0.00	.10000E+01	407312.	15.770	EB
2.46	0.00	.10000E+01	112947.	4.369	BE
3.78	0.00	.10000E+01	88735.	3.154	GB
4.60	0.00	.10000E+01	155707.	5.995	EE
6.23	0.00	.10000E+01	92277.	3.504	BF
8.75	0.00	.10000E+01	172387.	6.673	ED
7.81	0.00	.10000E+01	172387.	6.673	ED
8.88	0.00	.10000E+01	250553.	9.452	BF
12.19	0.00	.10000E+01	332543.	12.873	FE
15.14	0.00	.10000E+01	0000.	0.000	EE
17.27	0.00	.10000E+01	154031.	5.861	ED
23.31	0.00	.10000E+01	232101.	8.970	EE

Total Area = 2502777 Total area % = 61016.000
 Processed data file: R2724 Raw data file: R2724

AMPLITUDE x.25 uV-seconds (Enlarged x 3.20)



Report: 1697.00 Channel: 22 INDB

Sample: SD 4364 Injected at 8:30:53 On NOV 29, 1989

ZERO Method: P0CK20 Seq: SEQ27 Subsq/Chan: 1/36 Pil: 36

Sl-width 500 MU/Min .300 Delay 0.00 Min-Ar 5000 Bench Auto

Sup-Unk NO Det 0.00 ID-Lo1 0 Ref-RTW 3.0 XRTW 3.0 CDil-f 100.00 I_{so} 100

Actual run time: 26.003 minutes

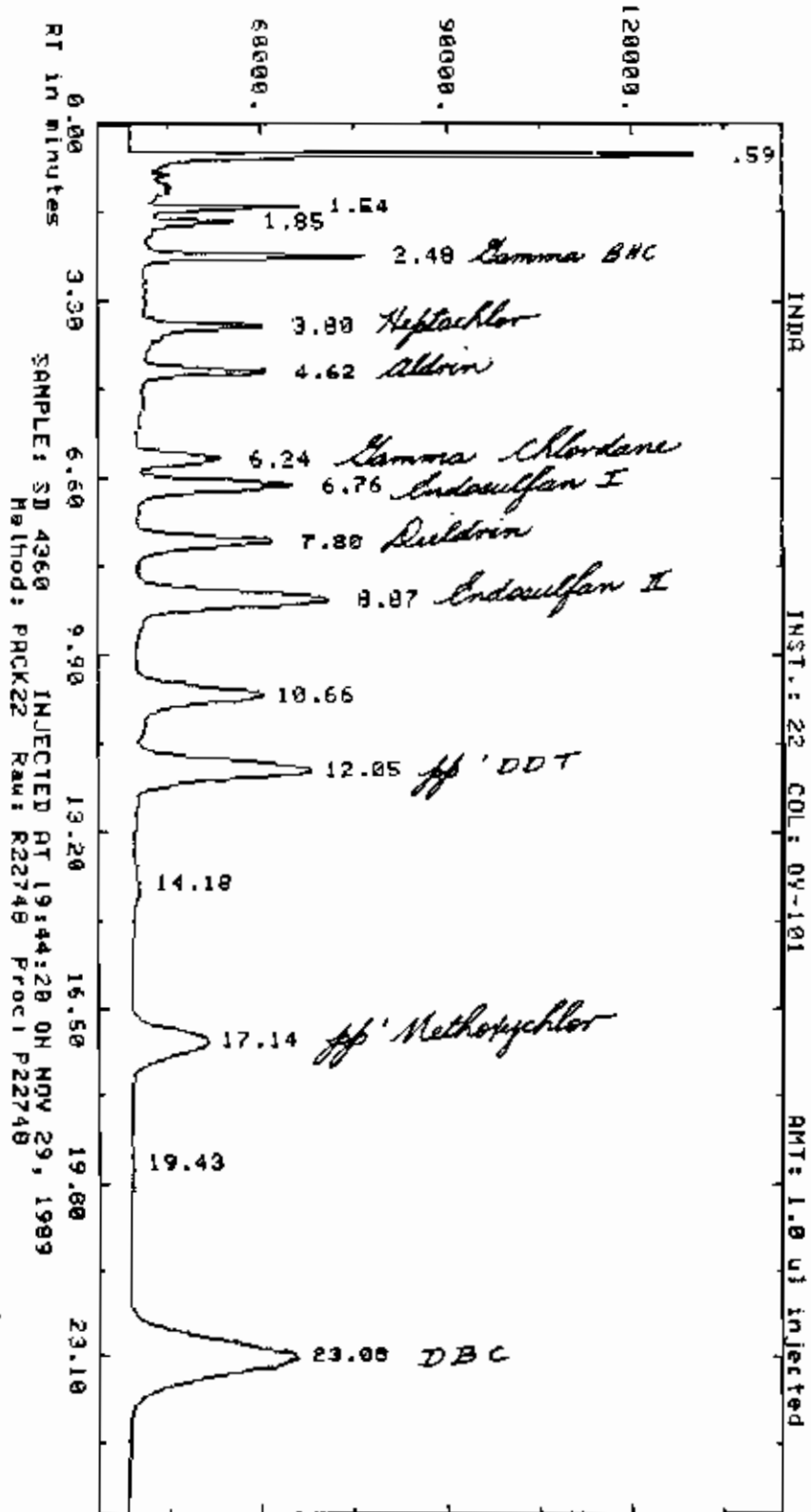
Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
1.97	0.00	.10000E+01	680155.	20.876	BB
2.13	0.00	.10000E+01	51943.	1.668	BB
3.25	0.00	.10000E+01	35182.	1.130	BB
5.50	0.00	.10000E+01	64714.	2.020	BB
5.49	0.00	.10000E+01	69223.	2.265	BB
6.82	0.00	.10000E+01	175840.	5.646	BB
7.77	0.00	.10000E+01	155528.	4.994	BB
8.63	0.00	.10000E+01	124052.	3.983	BB
9.42	0.00	.10000E+01	464759.	14.923	BB
11.15	0.00	.10000E+01	74288.	2.450	BB
14.11	0.00	.10000E+01	687336.	22.519	BB
23.27	0.00	.10000E+01	698295.	22.227	BB

Total Area = 3114366. Total AREA % = 99.6795 000

Processed data file: P22736 Raw data file: R22736

AMPLITUDE x.25 uV-seconds (Enlarged x 2.07)



Report: 1710.00 Channel: 22 INDA

Sample: SD 4360

Injected at 19:44:20 ON NOV 29, 1987

ZERO Method: PACK22

Seq: SEQ227

Subsq/Samp: 1/48

Btl: 48

Sl-width MV/Min Delay Min-Ar Bunch
500 .300 0.00 5000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.000 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
1.59	0.00	.10000E+01	401997.	BB	13.104
1.54	0.00	.10000E+01	62289.	BB	2.029
1.85	0.00	.10000E+01	34563.	BB	1.127
2.48	0.00	.10000E+01	121721.	BB	3.968
3.80	0.00	.10000E+01	104512.	BB	3.407
4.62	0.00	.10000E+01	102694.	BB	3.347
6.24	0.00	.10000E+01	83469.	BB	2.721
6.76	0.00	.10000E+01	176542.	BB	5.755
7.80	0.00	.10000E+01	181416.	BB	5.913
8.87	0.00	.10000E+01	315219.	BB	10.275
10.66	0.00	.10000E+01	240331.	BB	7.834
12.05	0.00	.10000E+01	339109.	BB	11.054
14.18	0.00	.10000E+01	16198.	BB	.528
17.14	0.00	.10000E+01	217440.	BB	7.088
19.43	0.00	.10000E+01	6731.	BB	.219
23.08	0.00	.10000E+01	663647.	BF	21.632

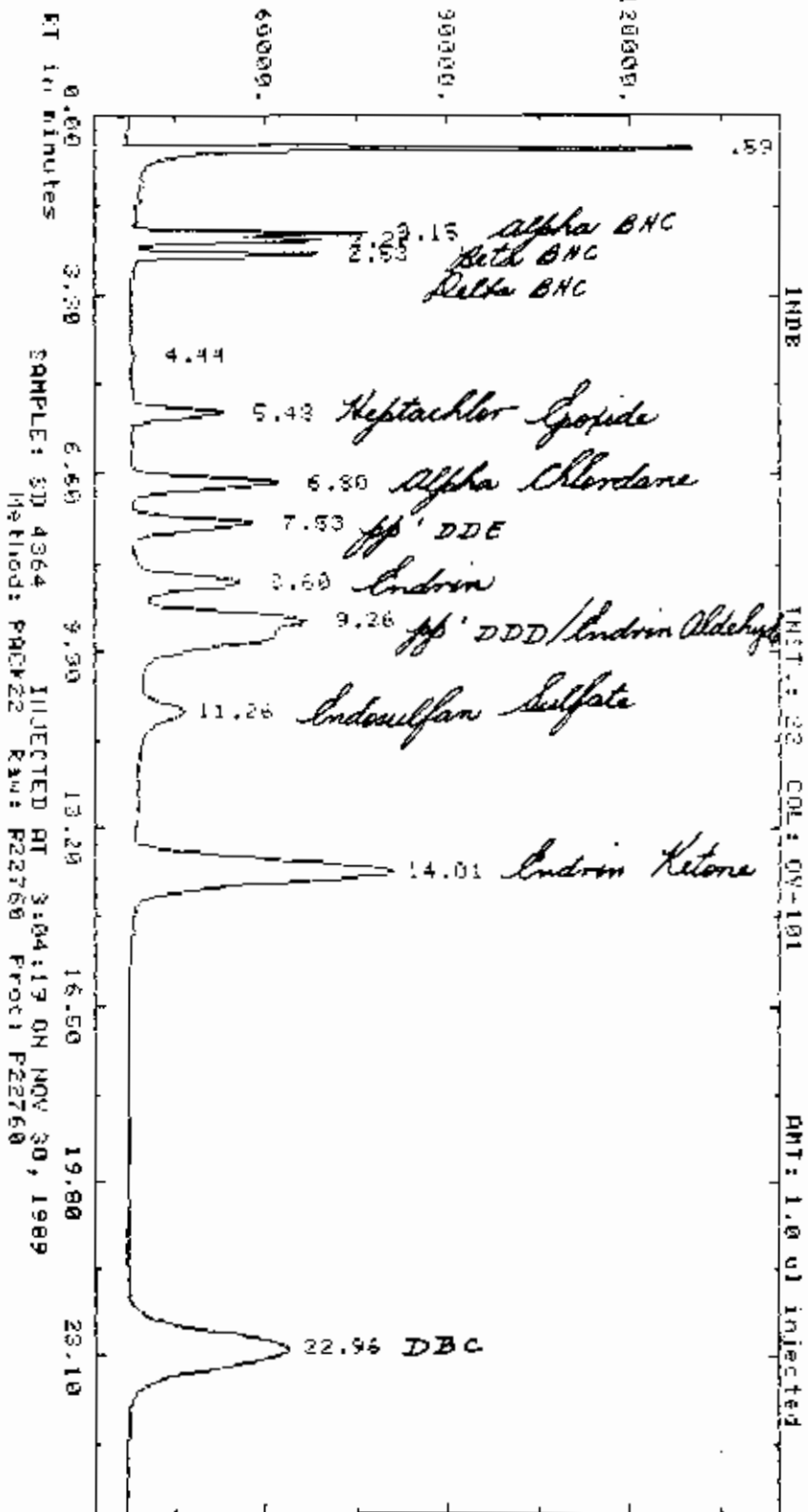
Total Area = 3067848.

Total AREA % = 663647.000

Processed data file: P22748

Raw data file: R22748

AMPLITUDE x.25 uV-seconds (Enlarged) 3.741



Report: 1730.00 Channel: 02 INDE

Sample: 5D 4364 Injected at 3:04:19 ON NOV 30, 1989

ZERO Method: PnCK2P Seq: SEQ227 Subseq/Samp: 1/60 Btl: 60

Sl-width MV/Min Delay Min-Gr Bunch
.500 .300 0.00 5000 Auto

Sup-Unit Det ID-Lvl Ref-RCU XRTM %Dist-f Iso
PC 0.00 0 30 2.0 100.00 NU

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
2.59	0.00	.100000E+01	669307.	23.381	BS
2.15	0.00	.100000E+01	47255.	1.651	BB
2.27	0.00	.100000E+01	34649.	1.217	BB
2.53	0.00	.100000E+01	69933.	2.497	BB
4.44	0.00	.100000E+01	5786.	.202	BB
5.48	0.00	.100000E+01	98538.	3.473	BB
7.90	0.00	.100000E+01	178010.	6.218	BB
7.53	0.00	.100000E+01	100200.	3.482	BB
8.60	0.00	.100000E+01	137719.	4.818	BB
9.36	0.00	.100000E+01	77413.	2.754	BB
11.04	0.00	.100000E+01	89235.	3.117	BB
14.01	0.00	.100000E+01	651586.	22.754	BB
22.96	0.00	.100000E+01	606756.	21.245	BB

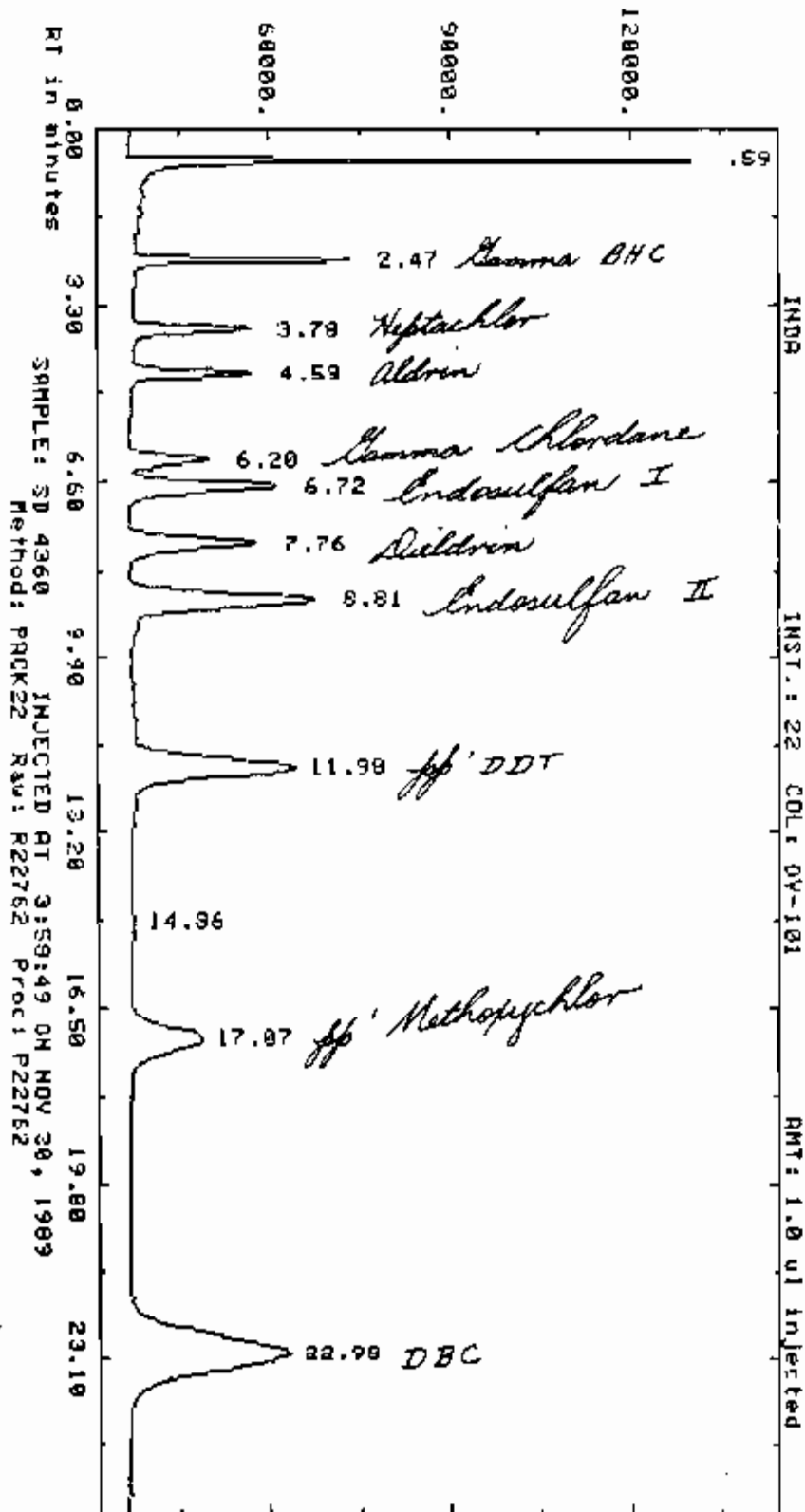
Total Area = 2847606.

Total AREA % = 636796.000

Processed data file: P22760

Raw data file: R22760

AMPLITUDE x.25 uV-seconds (Enlarged x 1.83)



Report: 1732.00 Channel: 22 INDA

Sample: SD 4360 Injected at 3:58:49 ON NOV 30, 1989

ZERO Method: PACK22 Seq: SEQ227 Subsq/Samp: 1/62 Btl: 62

Sl-width MV/Min Delay Min-Ar Bunch
.500 .300 0.00 5000 Auto

Sup-Unk Dvt ID-Lvl Ref-RTW %RTW %Dil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.59	0.00	.10000E+01	377084.	BB	14.705
2.47	0.00	.10000E+01	113155.	BB	4.413
3.78	0.00	.10000E+01	85973.	BB	3.353
4.59	0.00	.10000E+01	100727.	BB	3.928
6.20	0.00	.10000E+01	79586.	BB	3.104
6.72	0.00	.10000E+01	169027.	BB	6.592
7.76	0.00	.10000E+01	171538.	BB	6.689
8.91	0.00	.10000E+01	304212.	BB	11.863
11.98	0.00	.10000E+01	326424.	BB	12.730
14.86	0.00	.10000E+01	5476.	BB	.214
17.07	0.00	.10000E+01	202121.	BB	7.882
22.98	0.00	.10000E+01	628974.	BB	24.528

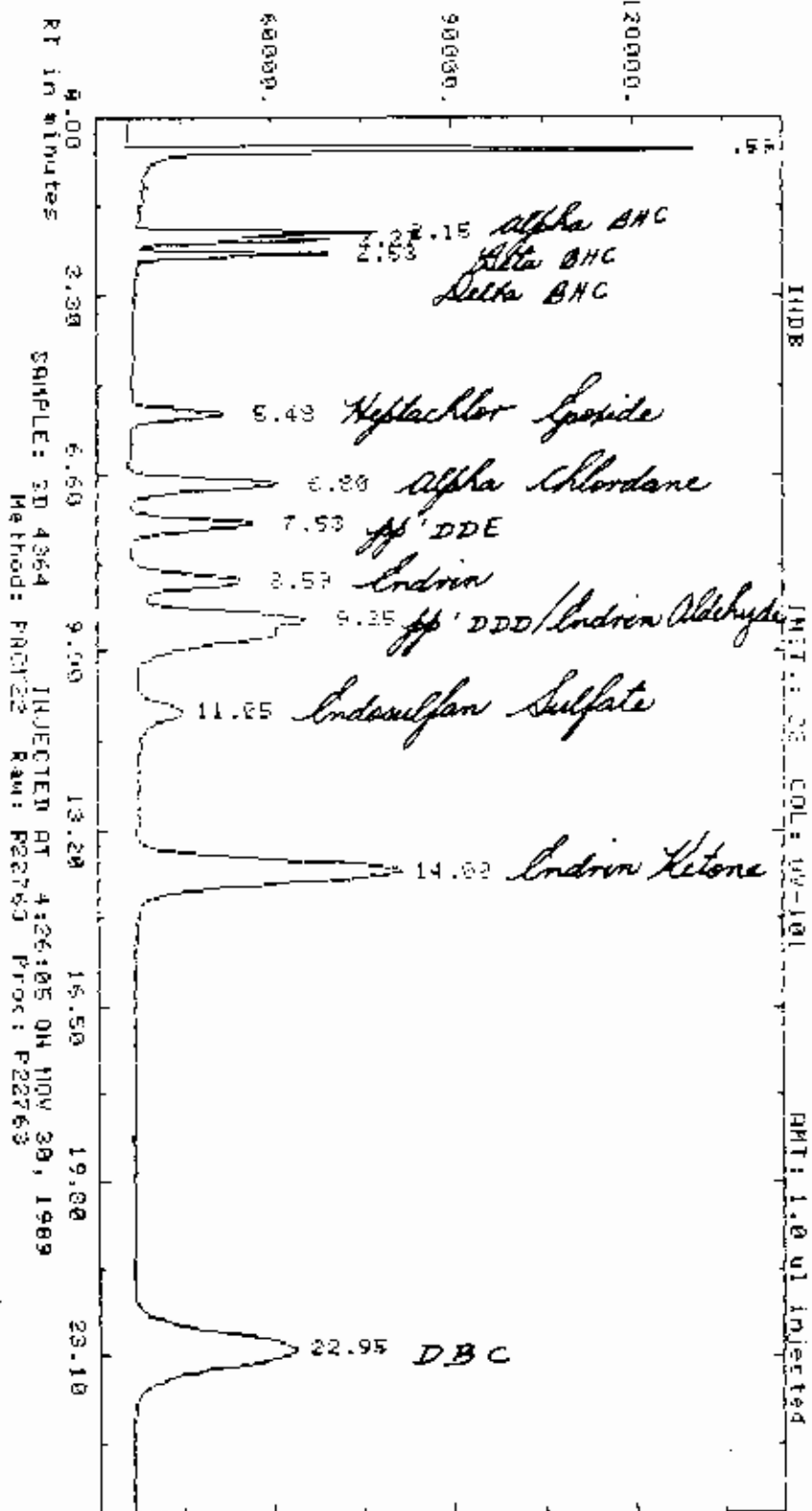
Total Area = 2564299.

Total AREA % = 628974.000

Processed data file: P22762

Raw data file: R22762

AMPLITUDE x.25 uV-seconds (Enlarged x 3.65)



Report: 1733.00 Channel: 22 INDB

Sample: SD 4364 Injected at 4:26:05 ON NOV 30, 1989

ZERO Method: PACT22 Seq: SEQ227 Subsq/Samp: 1/63 P1: 63

SI-width MV/Min Delay Min-Ac Bunch
.500 .300 0.00 5000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW %RTW KDil-f Inc
NO 0.00 0 .36 5.0 100.00 NO

Actual run time: 26.008 minutes

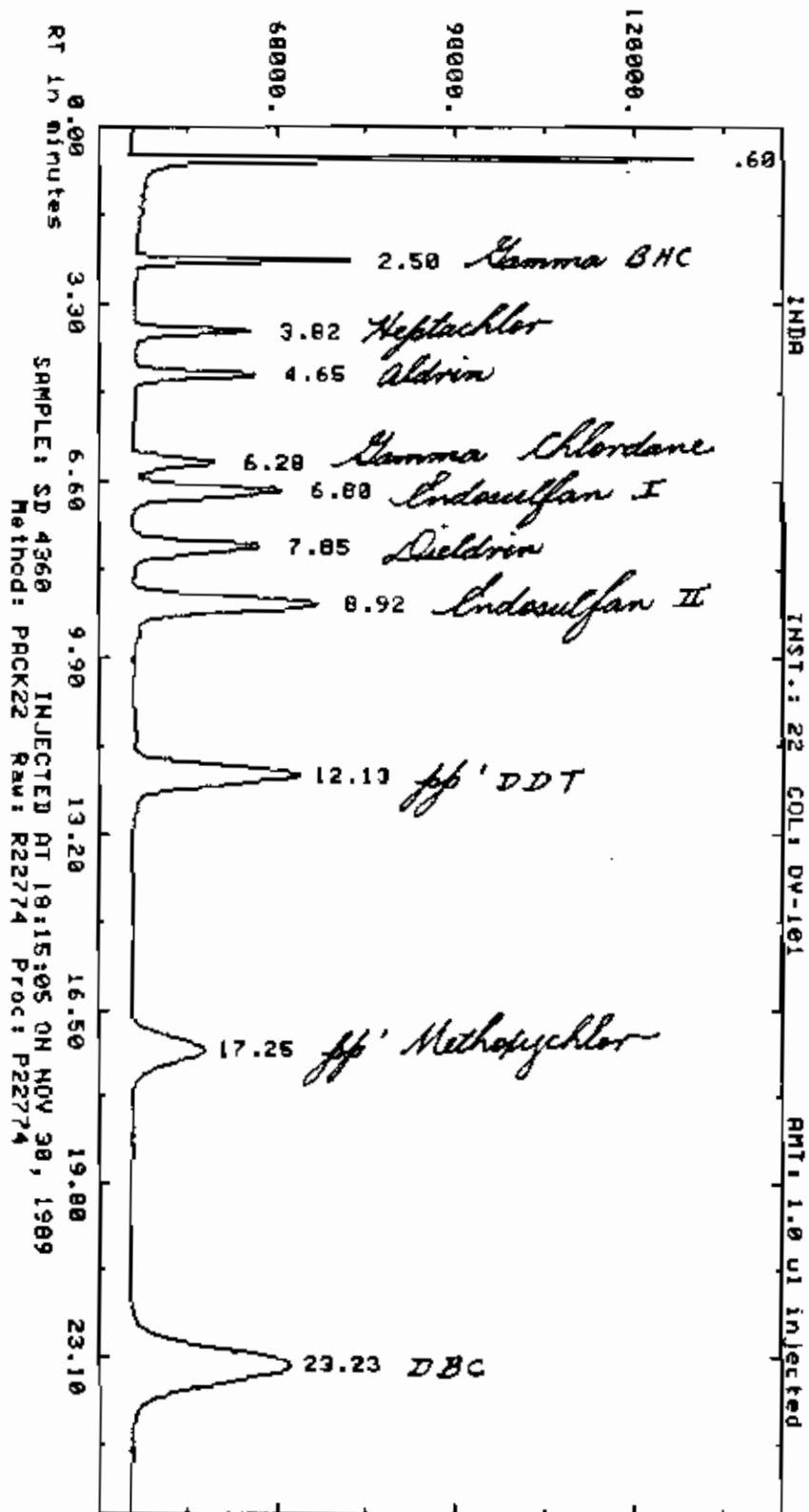
Ended not on baseline

RT	ITH	Factor	Area	NAME	AREA %
2.59	0.00	.10000E+01	641662.	BB	22.310
2.15	0.00	.10000E+01	53676.	BB	1.866
2.27	0.00	.10000E+01	37097.	BB	1.290
3.53	0.00	.10000E+01	91659.	BB	3.167
5.49	0.00	.10000E+01	90810.	BB	3.157
6.80	0.00	.10000E+01	122194.	BB	4.230
7.53	0.00	.10000E+01	136981.	BB	4.657
8.59	0.00	.10000E+01	148324.	BB	5.053
9.35	0.00	.10000E+01	83023.	BB	2.887
11.05	0.00	.10000E+01	92885.	BB	3.216
14.00	0.00	.10000E+01	664989.	BB	23.121
22.95	0.00	.10000E+01	639177.	BB	22.224

Total Area = 2876129 Total AREA % = 639177.000

Processed data file: P22763 Raw data file: R22763

AMPLITUDE X.25 UV-seconds (Enlarged x 1.77)



Report: 1745.00 Channel: 22 INDA
 Sample: SD 4360 Injected at 18:15:05 ON NOV 30, 1989
 ZERO Method: PACK22 Seq: SEQ227 Subsq/Samp: 1/74 Btl: 74

SI-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.008 minutes

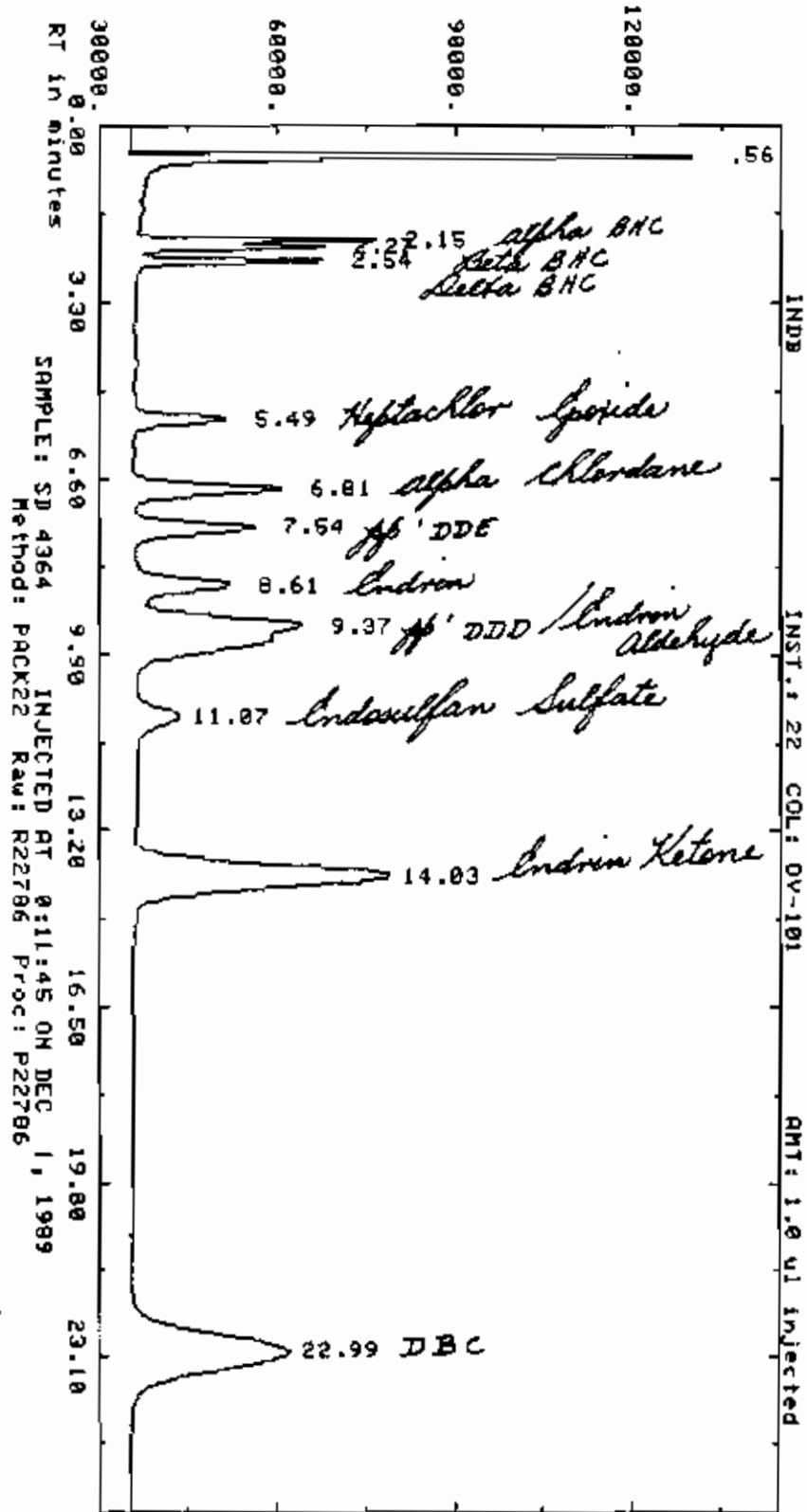
Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.60	0.00	.10000E+01	389731. BB	14.773	
2.50	0.00	.10000E+01	114948. BB	4.357	
3.82	0.00	.10000E+01	86192. BB	3.267	
4.65	0.00	.10000E+01	104845. BB	3.974	
6.28	0.00	.10000E+01	83971. BB	3.183	
6.80	0.00	.10000E+01	175637. BB	6.658	
7.85	0.00	.10000E+01	177300. BB	6.721	
8.92	0.00	.10000E+01	310064. BB	11.753	
12.13	0.00	.10000E+01	341295. BB	12.937	
17.25	0.00	.10000E+01	208234. BB	7.893	
23.23	0.00	.10000E+01	645938. BF	24.484	

Total Area = 2638156. Total AREA % = 645938.000

Processed data file: P22774 Raw data file: R22774

AMPLITUDE x.25 uV-seconds (Enlarged x 3.61)



Report: 1757.00 Channel: 22 INDB

Sample: SD 4364 Injected at 0:11:45 DN DEC 1, 1989

ZERO Method: PACK22 Seq: SEQ227 Subsq/Samp: 1/86 Rtl: B6

Sl-width MV/Min Delay Min-Ar Bunch
.500 .300 0.00 5000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
2.56	0.00	.10000E+01	637452.	22.515	BS
2.15	0.00	.10000E+01	51942.	1.835	BB
2.27	0.00	.10000E+01	36637.	1.294	BB
3.54	0.00	.10000E+01	90748.	3.295	BB
3.49	0.00	.10000E+01	92709.	3.275	BB
6.81	0.00	.10000E+01	183732.	6.490	BB
7.54	0.00	.10000E+01	160046.	5.653	BB
8.61	0.00	.10000E+01	129324.	4.568	BB
9.37	0.00	.10000E+01	78424.	2.770	BB
11.07	0.00	.10000E+01	86305.	3.048	BB
14.03	0.00	.10000E+01	648927.	22.921	BB
23.99	0.00	.10000E+01	634928.	22.426	BF

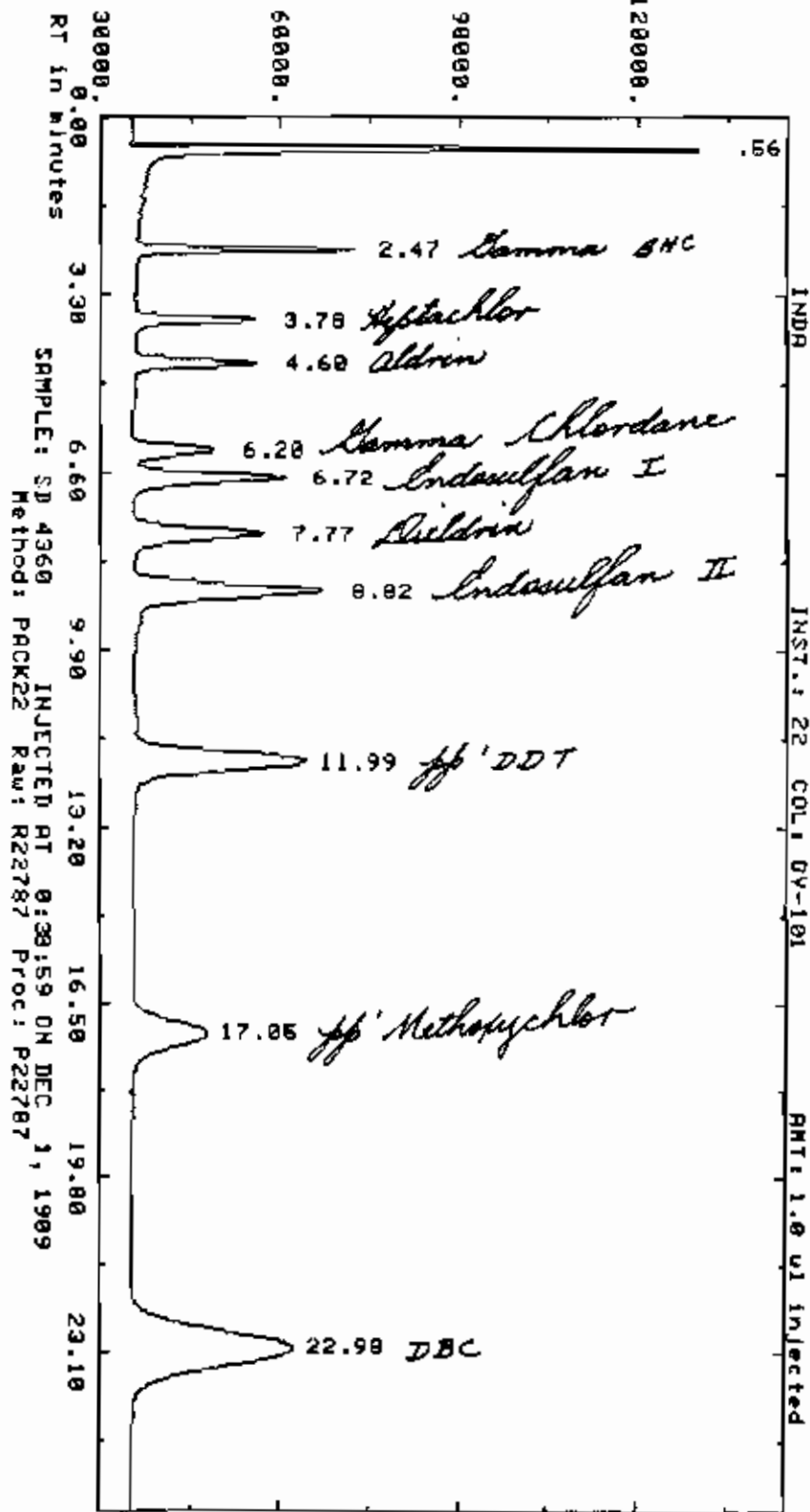
Total Area = 2831175.

Total AREA % = 634928.000

Processed data file: P22786

Raw data file: R22786

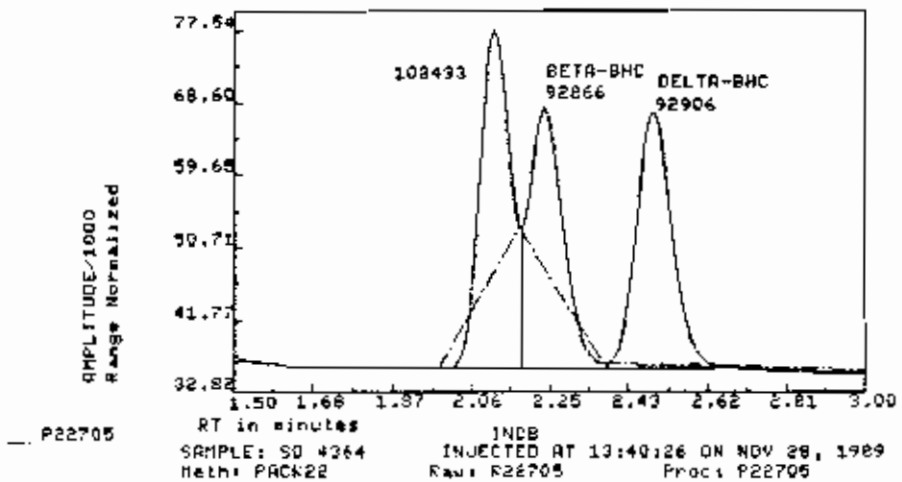
AMPLITUDE x.25 uV-seconds (Enlarged x 1.72)

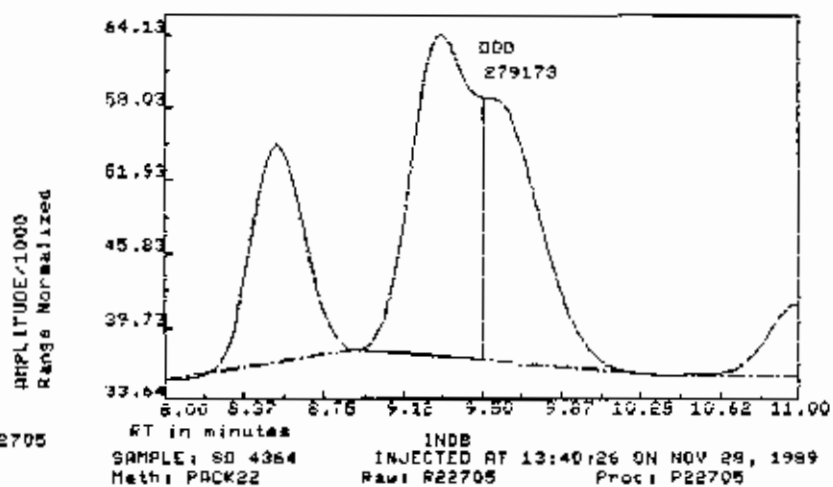


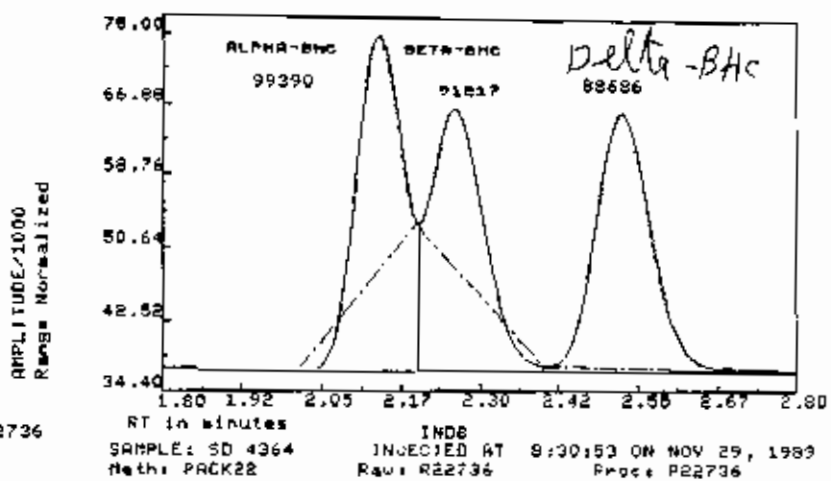
Report: 1758.00 Channel: 22 INDA
 Sampler: SD 4360 Injected at 0:38:59 ON DEC 1, 1989
 ZERO Method: PACK22 Seq: SEQ227 Subsq/Samp: 1/87 Btl: 87
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW %Dil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO

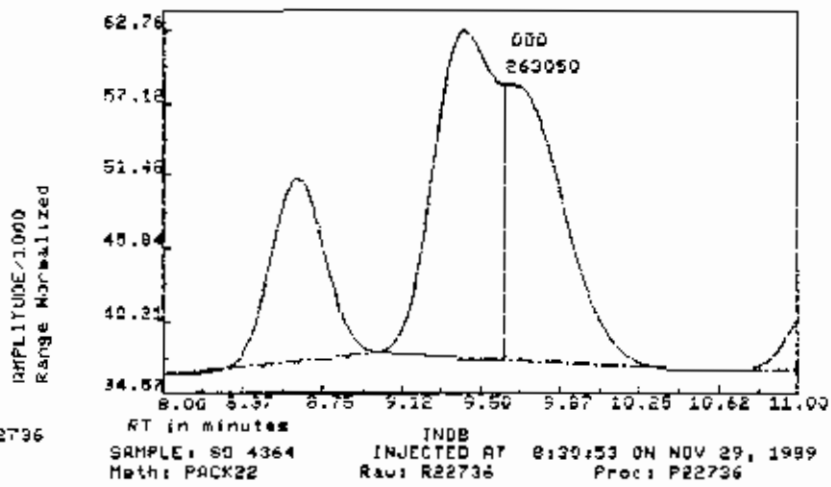
Actual run time: 26.008 minutes
 Ended not on baseline

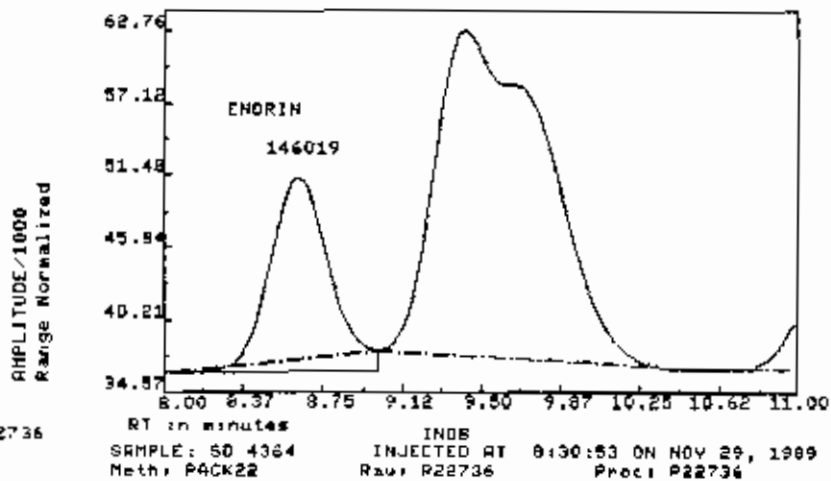
RT	ITH	Factor	Area	AREA X	Name
.56	0.00	.10000E+01	360720.	BS	13.693
2.47	0.00	.10000E+01	115373.	BB	4.380
3.78	0.00	.10000E+01	88413.	BB	3.356
4.60	0.00	.10000E+01	104770.	BB	3.977
6.20	0.00	.10000E+01	82884.	BB	3.146
6.72	0.00	.10000E+01	177248.	BB	6.728
7.77	0.00	.10000E+01	180034.	BB	6.834
8.82	0.00	.10000E+01	315926.	BB	11.992
11.99	0.00	.10000E+01	344796.	BB	13.088
17.05	0.00	.10000E+01	214409.	BB	8.139
22.98	0.00	.10000E+01	649804.	BF	24.666
Total Area =			2634379.	Total AREA X = 649804.000	
Processed data file:			P22787	Raw data file: R22787	



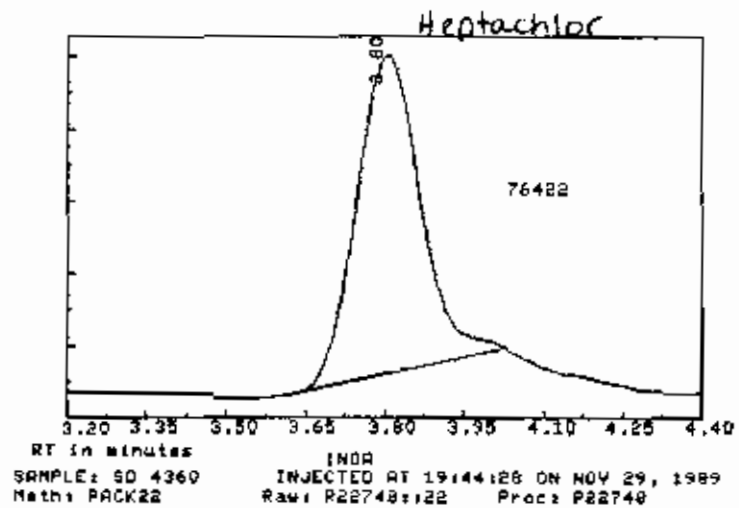


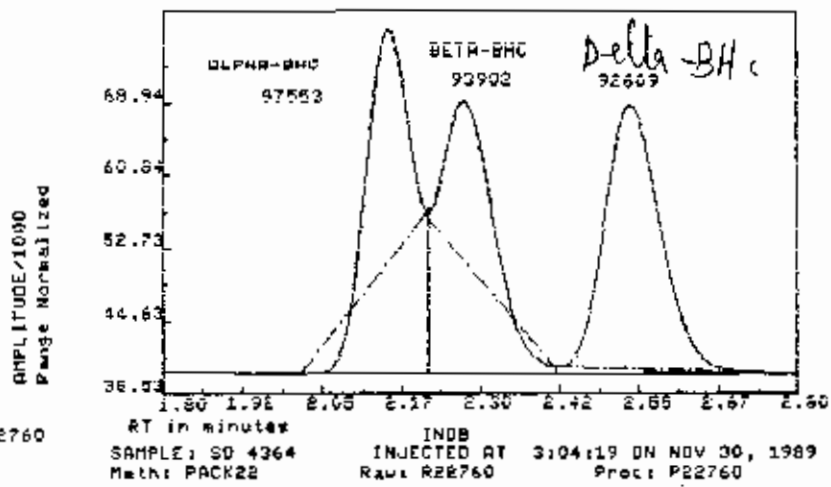


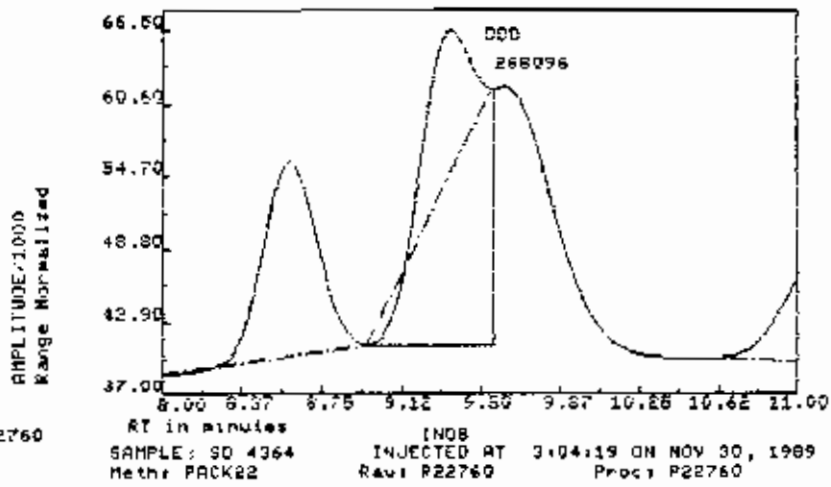


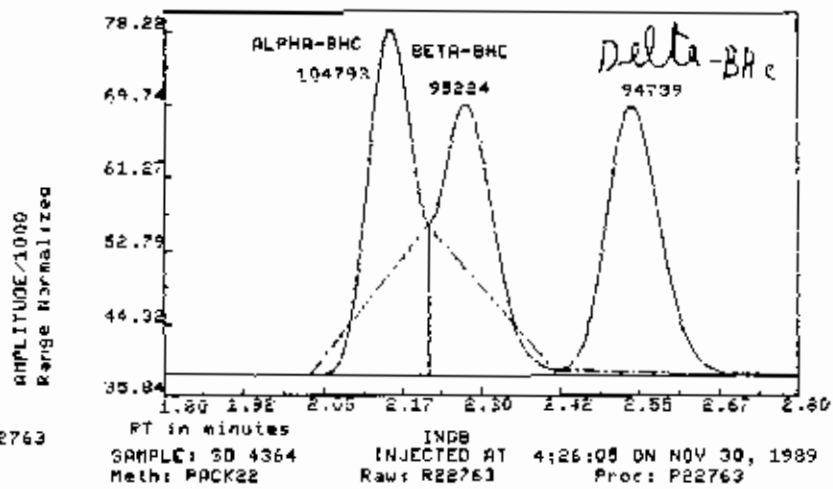


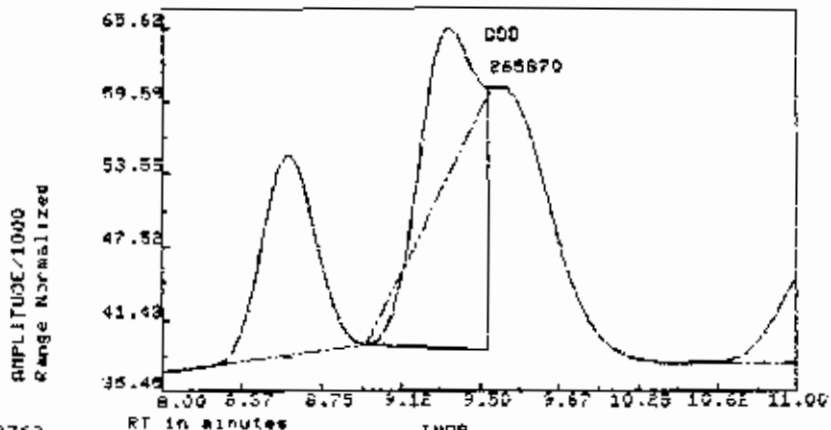
AMPLITUDE/1000
Range Normalized











P22763

RT in minutes INDB
 SAMPLE: SD 4364 INJECTED AT 4:26:05 ON NOV 30, 1989
 Meth: PCK22 Rpt: P22763 Proc: P22763

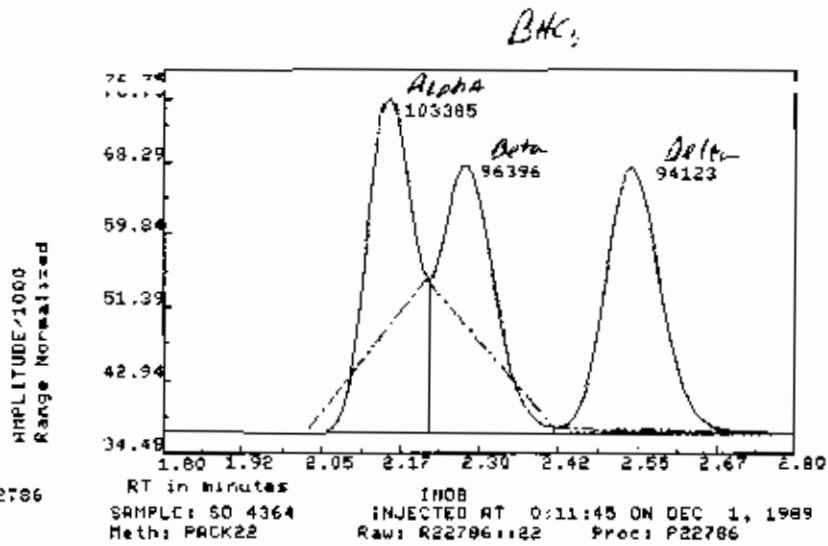
RAW DATA FILE: R22786:122

INJECTED AT: 0:11:45 ON DEC 1, 1989

RESULTS ARE IN AREA PERCENT

	AREA#	TIME1	TIME2	AREA	AREA%
	1	2.06	2.22	103385	35.2
	2	2.22	2.42	96396	32.8
	3	2.42	2.73	94128	32.0

Select softkey



**PESTICIDE
DATA
FOR
SECTION
I**

STANDARD COMPOUND CONCENTRATIONS

STD INDA	CONC(ug/ml)
Gamma BHC	0.010
Heptachlor	0.010
Aldrin	0.010
Gamma Chlordane	0.010
Endosulfen I	0.010
Dieldrin	0.020
Endosulfan II	0.040
pp' DDT	0.050
pp' Methoxychlor	0.10

STD INDB	
Alpha BHC	0.010
Beta BHC	0.020
Delta BHC	0.010
Heptachlor Epoxide	0.010
Alpha Chlordane	0.020
pp' DDE	0.020
Endrin	0.040
pp' DDD	0.040
Endrin Aldehyde	0.040
Endosulfan Sulfate	0.040
Endrin Ketone	0.10

MULTICOMPONENT STANDARDS

AR1650	1015	0.30
	1250	0.30
AR1221		1.0
AR1232		0.70
AR1242		0.40
AR1248		0.40
AR1254		0.30
TOXAPH		1.0

EVALUATION MIX STANDARDS

COMPOUND	EVALA	EVALB	EVALC
Aldrin	0.0020	0.0050	0.010
Endrin	0.0000	0.020	0.040
DDT	0.0125	0.030	0.050
D8C	0.020	0.050	0.10

SEQUENCE NAME - SEQ227

CALIB. STD LOT OV-101

L.U. REF 23

CHANNEL # 2

DATE STARTED

INSTRUMENT # 06

DATE FINISHED

TYPE(S) OF ANALYSIS PEST

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
EVALA	01	EVALA		11:19:49 ON NOV 28, 1989
EVALB	02	EVALB		11:47:01 ON NOV 28, 1989
EVALC	03	EVALC		12:14:13 ON NOV 28, 1989
SD 4360	04	INDA		13:13:14 ON NOV 28, 1989
SD 4364	05	INDB		13:40:26 ON NOV 28, 1989
SD TOXA	06	TOXAPH		14:07:40 ON NOV 28, 1989
SD ARMX	07	AR1660		14:34:53 ON NOV 28, 1989
SD 1221	08	AR1221		15:02:08 ON NOV 28, 1989
SD 1232	09	AR1232		15:29:22 ON NOV 28, 1989
SD 1242	10	AR1242		15:56:37 ON NOV 28, 1989
SD 1248	11	AR1248		16:23:52 ON NOV 28, 1989
SD 1254	12	AR 1254		16:51:08 ON NOV 28, 1989
CP 303466 B1	13	17603 990	PBLK41	20:28:06 ON NOV 28, 1989
CP 303220	14	17603 990	09SD901X4	20:55:18 ON NOV 28, 1989
CP 302880 B1	15	18410 5	PBLK25	21:22:30 ON NOV 28, 1989
CP 302175	16	18410 5	738001-14	23:26:10 ON NOV 28, 1989
CP 302176	17	18410 5	738001-24	23:53:23 ON NOV 28, 1989
EVALB	18	EVALB		0:20:36 ON NOV 29, 1989
CP 302182	19	18410 5	738001-23	0:47:50 ON NOV 29, 1989
PP 304300 B1	20	17860 544	PBLK83	1:15:04 ON NOV 29, 1989
PP 304301 B2	21	17860 544	PBLK84	1:42:19 ON NOV 29, 1989
PP 303536RBS	22	17860 544	BS	2:09:34 ON NOV 29, 1989
PP 303537RBS	23	17860 544	BS	2:36:49 ON NOV 29, 1989
SD 4360	24	INDA		3:04:04 ON NOV 29, 1989
PP 303538RBS	25	17860 544	BS	3:31:20 ON NOV 29, 1989
PP 303538DBS	26	17860 544	BSD	3:58:37 ON NOV 29, 1989
PP ALUM BK90	27			4:25:53 ON NOV 29, 1989
PP 304209 B2	28	17026 352	PBLK66	4:53:06 ON NOV 29, 1989
PP 303788 BS	29	17026 352	BS	5:20:18 ON NOV 29, 1989
EVALB	30	EVALB		5:47:31 ON NOV 29, 1989
PP 303789 BS	31	17026 352	BS	6:14:43 ON NOV 29, 1989
PP 303790 BS	32	17026 352	BS	6:41:56 ON NOV 29, 1989
PP 303779	33	17026 352	DW112189	7:09:10 ON NOV 29, 1989
PP 304058	34	18477-1	EPSFB1121	7:36:24 ON NOV 29, 1989

SEQUENCE NAME - SEQ227

CALIB. STD LOT OV-101

L.U. REF 23

CHANNEL # 2

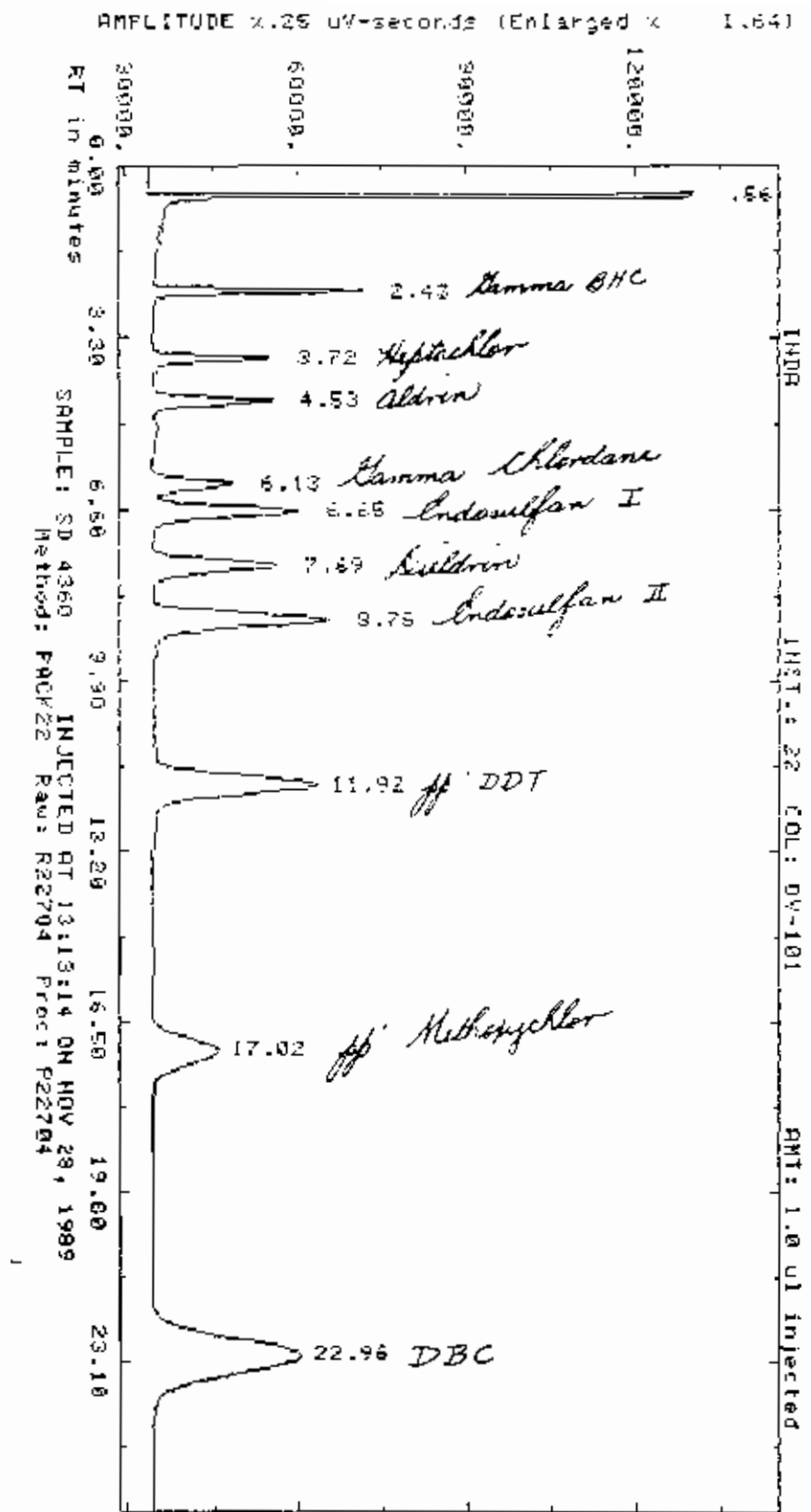
DATE STARTED

INSTRUMENT # 06

DATE FINISHED

TYPE(S) OF ANALYSIS PEST

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
PP ALUM BK79	35			8:03:38 ON NOV 29, 1989
SD 4364	36	INDB		8:30:53 ON NOV 29, 1989
PP 304452 B1	37	18410 5	PBLK98	9:20:55 ON NOV 29, 1989
PP301926R2SS	38	18410 5	738001-01MS	9:48:11 ON NOV 29, 1989
PP301927R2SS	39	18410 5	738001-01MSD	10:15:26 ON NOV 29, 1989
PP301928R2BS	40	18410 5	BS	10:42:42 ON NOV 29, 1989
PP 304453 B2	41	18410 5	PBLK99	12:17:57 ON NOV 29, 1989
EVALB	42	EVALB		12:45:10 ON NOV 29, 1989
CP 304264 B	43	18655 2015	PBLK55	14:42:29 ON NOV 29, 1989
CP 303519	44	18655 2015	WCC000448	15:09:41 ON NOV 29, 1989
CP 304265 B1	45	18310 13	PBLK56	15:36:54 ON NOV 29, 1989
CP 300197R	46	18310 13	0455004XX	18:47:20 ON NOV 29, 1989
PP 304454 B1	47	TEST	PBLK96	19:17:14 ON NOV 29, 1989
SD 4360	48	INDA		19:44:28 ON NOV 29, 1989
PP 304437	49	TEST	CARBOY#2	20:11:43 ON NOV 29, 1989
PP 304455 B2	50	TEST	PBLK97	20:38:58 ON NOV 29, 1989
PP 304436	51	TEST	CARBOY #1	21:06:13 ON NOV 29, 1989
PP 304208 B	52	17026 352	PBLK65	23:07:51 ON NOV 29, 1989
PP 303529	53	17860 544	S-02-AR	23:53:45 ON NOV 29, 1989
EVALB	54	EVALB		0:20:57 ON NOV 30, 1989
PP 304308 B1	55	18477 3	PBLK87	0:48:10 ON NOV 30, 1989
PP 304309 B2	56	18477 3	PBLK88	1:15:23 ON NOV 30, 1989
PP 303887RSS	57	18477 3	EP5221121MS	1:42:36 ON NOV 30, 1989
PP 303888RSS	58	18477 3	EP5221121MSD	2:09:50 ON NOV 30, 1989
PP 303889RBS	59	18477 3	BS	2:37:04 ON NOV 30, 1989
SD 4364	60	INDB		3:04:19 ON NOV 30, 1989
ALUM BLK #89	61			3:31:33 ON NOV 30, 1989
SD 4360	62	INDA		3:58:49 ON NOV 30, 1989
SD 4364	63	INDB		4:26:05 ON NOV 30, 1989
PP 304560 O	64	18518 25	COLPASW01	12:21:41 ON NOV 30, 1989
PP 304582 SS	65	18518 25	COLPASW01MS	12:48:53 ON NOV 30, 1989
PP 304583 SS	66	18518 25	COLPASW01MSD	13:16:06 ON NOV 30, 1989
PP 304760 B1	67	18518 25	PBLK03	13:43:18 ON NOV 30, 1989
EVALB	68	EVALB		14:10:31 ON NOV 30, 1989



Report: 1665.00 Channel: 28 INDA

Sample: SD 4360 Injected at 13:13:14 On NOV 28, 1989

ZERO Method: PACK22 Seq: SEQ227 Subsq/Samp: 1/ 4 Btl: 4

SI-width MU/min Delay Min-Gc Bunch
.500 .300 0.00 5000 Auto

Sup-Unk Det ID-Lvl Ref-RTW %RTW %Dil-F Iso
NO 0.00 0 0.30 5.0 100.00 NU

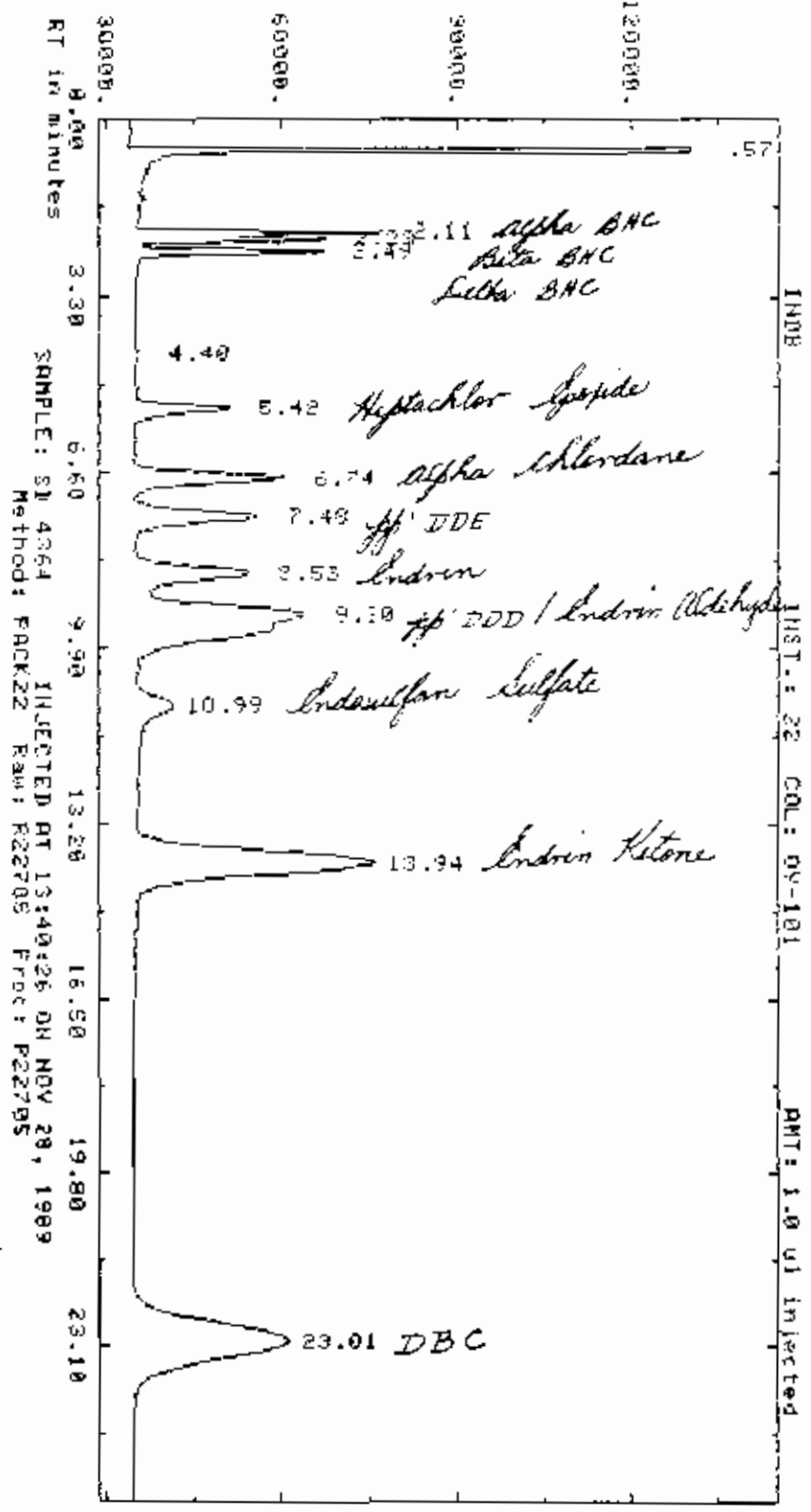
Actual run time: 26.017 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
2.56	0.00	.10000E+01	337667.	BB	13.070
2.43	0.00	.10000E+01	115505.	BB	4.445
3.72	0.00	.10000E+01	87987.	BB	3.386
4.53	0.00	.10000E+01	106294.	BB	4.090
6.13	0.00	.10000E+01	84630.	BB	3.257
6.65	0.00	.10000E+01	172096.	BB	6.815
7.69	0.00	.10000E+01	179307.	BB	6.900
8.75	0.00	.10000E+01	305696.	BB	11.777
11.92	0.00	.10000E+01	370432.	BB	14.255
17.02	0.00	.10000E+01	291097.	BB	7.736
22.96	0.00	.15000E+01	630668	BF	23.258

Total Area = 2598737 Total AREA % = 630648.000

Processed data file: P22704 Raw data file: R22704



Report: 1666 00 Channel: 22 1000
 Sample: SD 4334 Injected at 13:40:26 ON NOV 23, 1989
 ZERO Method: PACK22 Seq: SEQ337 Subsq/Samp: 1/5 P1 S
 Sl-width HV/Min Delay High-Or Bunch
 500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-STM CRTW XPr1-f Iso
 NO 0.00 0 .20 5.0 100.00 NO

Actual run time: 26.008 minutes

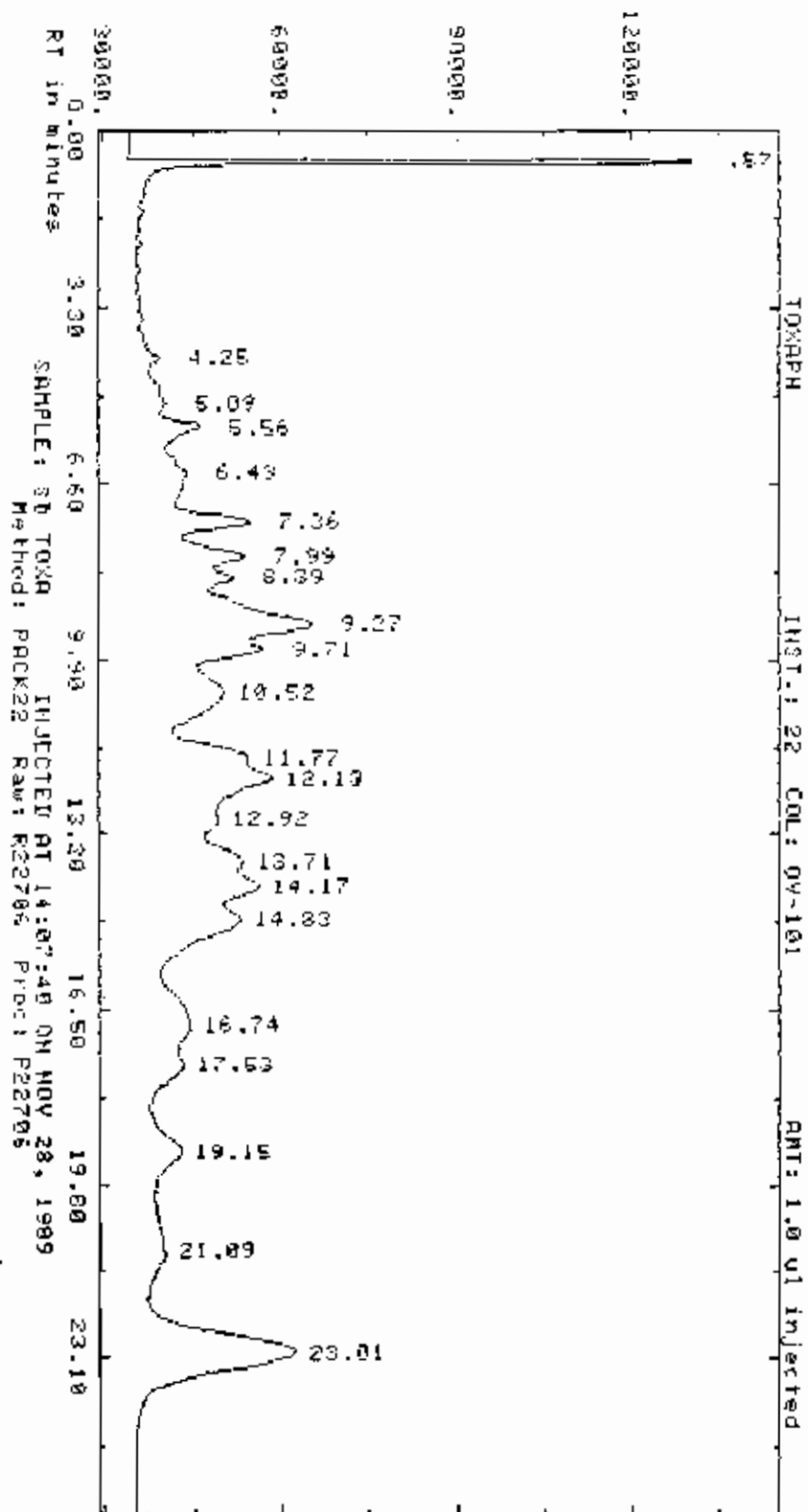
Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
2.57	0.00	.10000E+01	537375.	88	18.367
2.61	0.00	.10000E+01	51248.	BB	1.698
2.23	0.00	.10000E+01	37751.	BB	1.182
2.49	0.00	.10000E+01	84704.	BB	2.652
4.40	0.00	.10000E+01	6011.	BB	.189
5.42	0.00	.10000E+01	94442.	BB	2.956
6.74	0.00	.10000E+01	187347.	BB	5.865
7.48	0.00	.10000E+01	166332.	BB	5.207
8.53	0.00	.10000E+01	187625.	BB	4.934
9.30	0.00	.10000E+01	477510.	BB	14.951
10.99	0.00	.10000E+01	21131.	BB	2.541
13.94	0.00	.10000E+01	613321.	BB	19.361
23.01	0.00	.10000E+01	641390.	BF	20.078

Total Area = 3194494. Total AREA % = 641390.000

Processed data file: P22705 Raw data file: W22705

AMPLITUDE x.25 UV-seconds (Enlarged x 2.00)



Report: 1667 00 Channel: 22 TOXAPH

Sample: SD TOXA Injected at 14:07:40 ON NOV 28, 1989

ZERO Method: PACK22 Seq: SEQ227 Sol:sc/Samp: 1/ 6 PFI: 6

Sl-width MV/Min Delay Nin-Or Sunch
.500 .300 0.00 5000 Auto

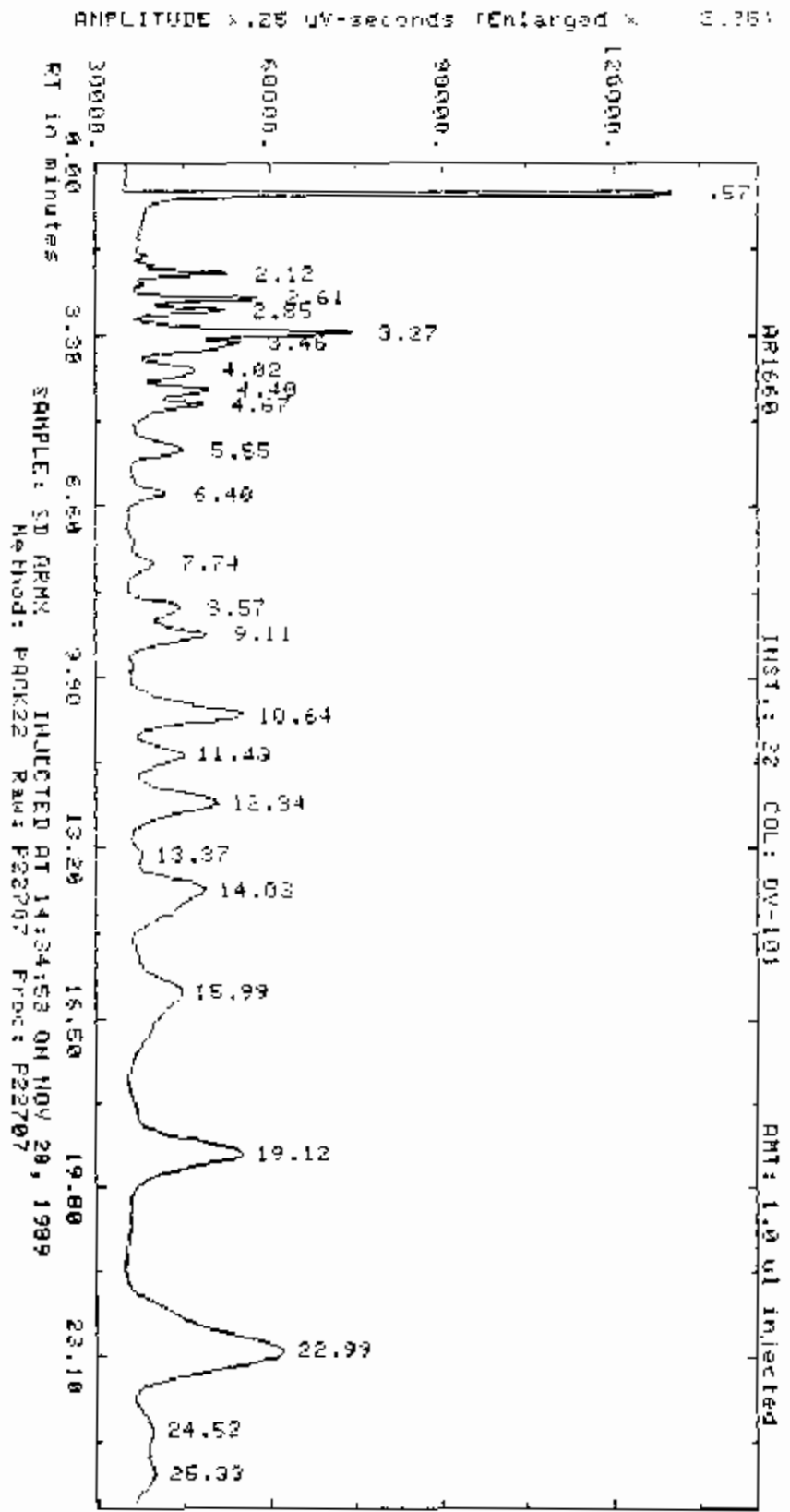
Sup-Unk DWT ID-Lvl Ref-RTW %STW ZD11-f Iso
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 26.017 minutes

RT	ITH	Factor	Area	AREA %	Name
4.57	0.00	100000E+01	401233	19.386	BB
4.69	0.00	100000E+01	14955	.723	BB
4.89	0.00	100000E+01	6856	.331	BB
5.6	0.00	100000E+01	52591	2.782	BB
6.43	0.00	100000E+01	6502	.314	BB
7.36	0.00	100000E+01	98156	4.741	BB
7.99	0.00	100000E+01	57033	2.755	BB
8.39	0.00	100000E+01	34161	1.667	BB
9.27	0.00	100000E+01	154183	7.449	BB
9.71	0.00	100000E+01	42700	2.075	BB
10.52	0.00	100000E+01	150686	7.313	BB
11.77	0.00	100000E+01	53070	2.576	BB
12.13	0.00	100000E+01	55425	2.680	BB
13.92	0.00	100000E+01	9637	.464	BB
13.71	0.00	100000E+01	21583	1.043	BB
14.17	0.00	100000E+01	42027	2.075	BB
14.83	0.00	100000E+01	79559	3.809	BB
16.24	0.00	100000E+01	21277	1.024	BB
17.53	0.00	100000E+01	39267	1.891	BB
19.15	0.00	100000E+01	95365	4.607	BB
21.09	0.00	100000E+01	62433	3.008	BB
23.01	0.00	100000E+01	605859	29.317	BB

Total Area = 2049995 Total AREA % = 606859.500

Processed data file: P22796 Raw data file: R22796



Report: 1668.00 Channel: 22 ARI660

Sample: 5D ARMX Injected at 14:34:33 ON NOV 28, 1969

ZFRO Method: PACK22 Seq: SEQ237 Subsq/Comp: 1/7 Pti: 7

Sl-width MV/Min Delay Min-Ar Sunch
.500 .300 0.00 5000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW %RTW KD11-f Iso
NO 0.00 0 50 5.0 100.00 NC

Actual run time: 26.003 minutes

Ended not on baseline

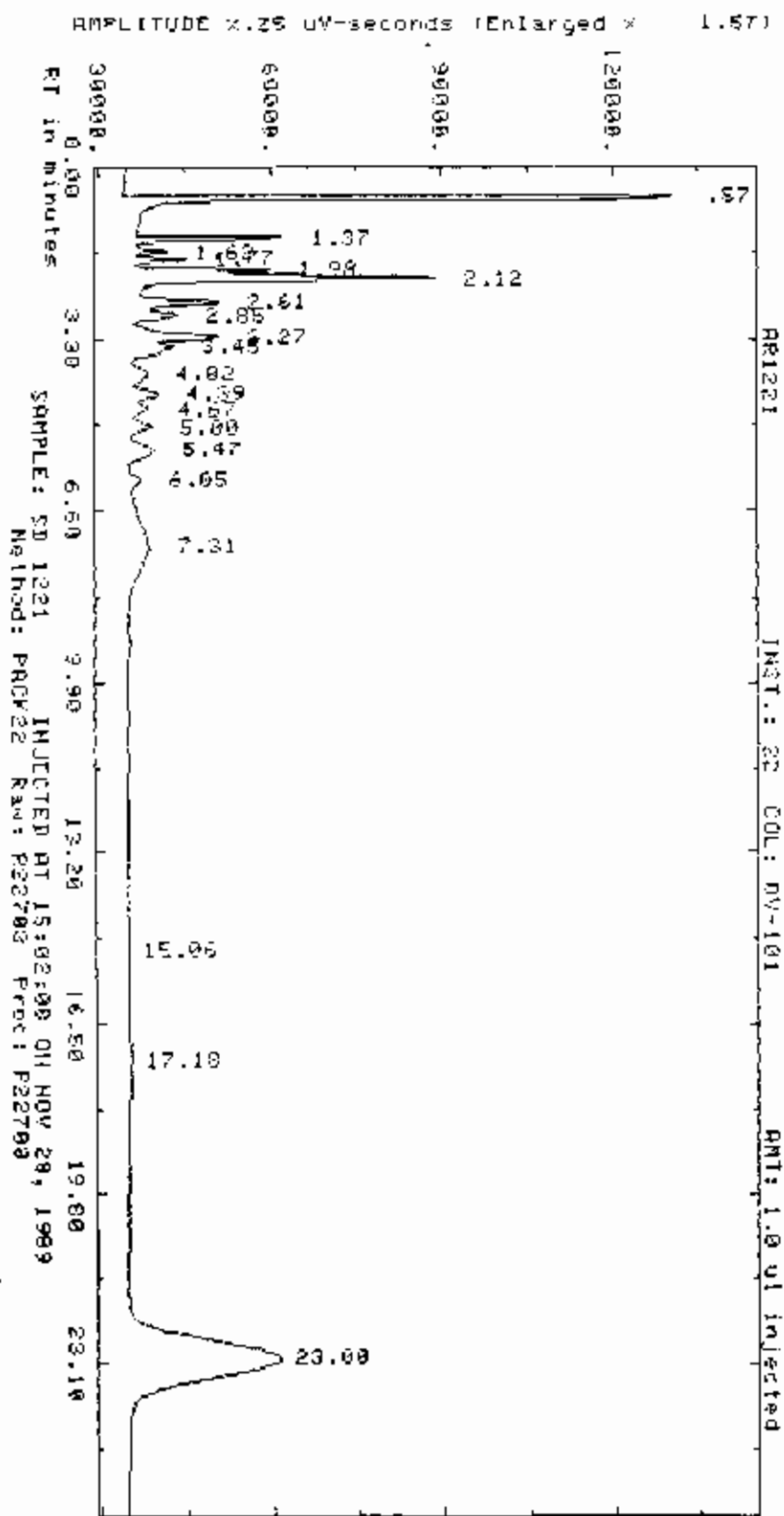
RT	ITH	Factor	Area	AREA %	Name
.57	0.00	1.0000E+01	451290.	BB	13.207
2.12	0.00	1.0000E+01	39560.	BB	1.156
2.61	0.00	1.0000E+01	64087.	BB	1.876
2.85	0.00	1.0000E+01	40309.	BB	1.180
3.29	0.00	1.0000E+01	107767.	BB	3.154
3.46	0.00	1.0000E+01	44299.	BB	1.296
4.02	0.00	1.0000E+01	69056.	BB	2.021
4.46	0.00	1.0000E+01	44729.	BB	1.309
4.67	0.00	1.0000E+01	28610.	BB	.843
5.55	0.00	1.0000E+01	77187.	BB	2.259
6.49	0.01	1.0000E+01	50650.	BB	1.482
7.74	0.00	1.0000E+01	33345.	BB	.976
8.57	0.00	1.0000E+01	50311.	BB	1.472
9.11	0.00	1.0000E+01	64522.	BB	1.874
10.64	0.00	1.0000E+01	275203.	BB	7.900
11.43	0.00	1.0000E+01	88290.	BB	2.584
12.34	0.00	1.0000E+01	195399.	BB	5.734
13.37	0.00	1.0000E+01	5210.	BB	.152
14.03	0.00	1.0000E+01	231163.	BB	6.766
16.99	0.00	1.0000E+01	257953.	BB	7.549
19.12	0.00	1.0000E+01	417404.	BB	12.216
22.99	0.01	1.0000E+01	734907.	BB	21.508
24.52	0.00	1.0000E+01	37023.	BB	1.099
25.43	0.00	1.0000E+01	35100.	BB	1.057

Total Area = 3416959.

Total AREA % = 36108.000

Processed data file: P22707

Raw data file: R22707



Report: 1669 00 Channel: 22

AR1221

Sample: SD 1221

Injected at 15:02:08 ON NOV 28, 1989

ZERO Method: PACK22

Seq: SEQ227

Subsq/Camp: 1/ B

Pr1: 8

SI-width HU/Min Delay Min-Ar Bunch
.500 .300 0.00 5000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.57	0.00	.10000E+01	334614.	BB	21.960
1.37	0.00	.10000E+01	47552.	BB	3.121
1.62	0.00	.10000E+01	9518.	BB	.625
1.77	0.00	.10000E+01	10769.	BB	1.232
1.93	0.00	.10000E+01	18797.	BB	1.234
2.12	0.00	.10000E+01	107485.	BB	7.054
2.61	0.00	.10000E+01	45178.	BB	2.965
2.85	0.00	.10000E+01	16177.	BB	1.062
3.27	0.00	.10000E+01	34329.	BB	2.942
3.45	0.00	.10000E+01	16497.	BB	1.063
4.02	0.00	.10000E+01	19565.	BB	1.284
4.39	0.00	.10000E+01	18881.	BB	1.259
4.67	0.00	.10000E+01	7110.	BB	.460
5.00	0.00	.10000E+01	14310.	BB	.959
5.47	0.00	.10000E+01	33172.	BB	2.177
6.05	0.00	.10000E+01	9219.	BB	.605
7.31	0.00	.10000E+01	90487.	BB	5.958
15.06	0.00	.10000E+01	5480.	BB	.360
17.18	0.00	.10000E+01	34638.	BB	2.217
23.00	0.00	.10000E+01	641497.	BB	42.095

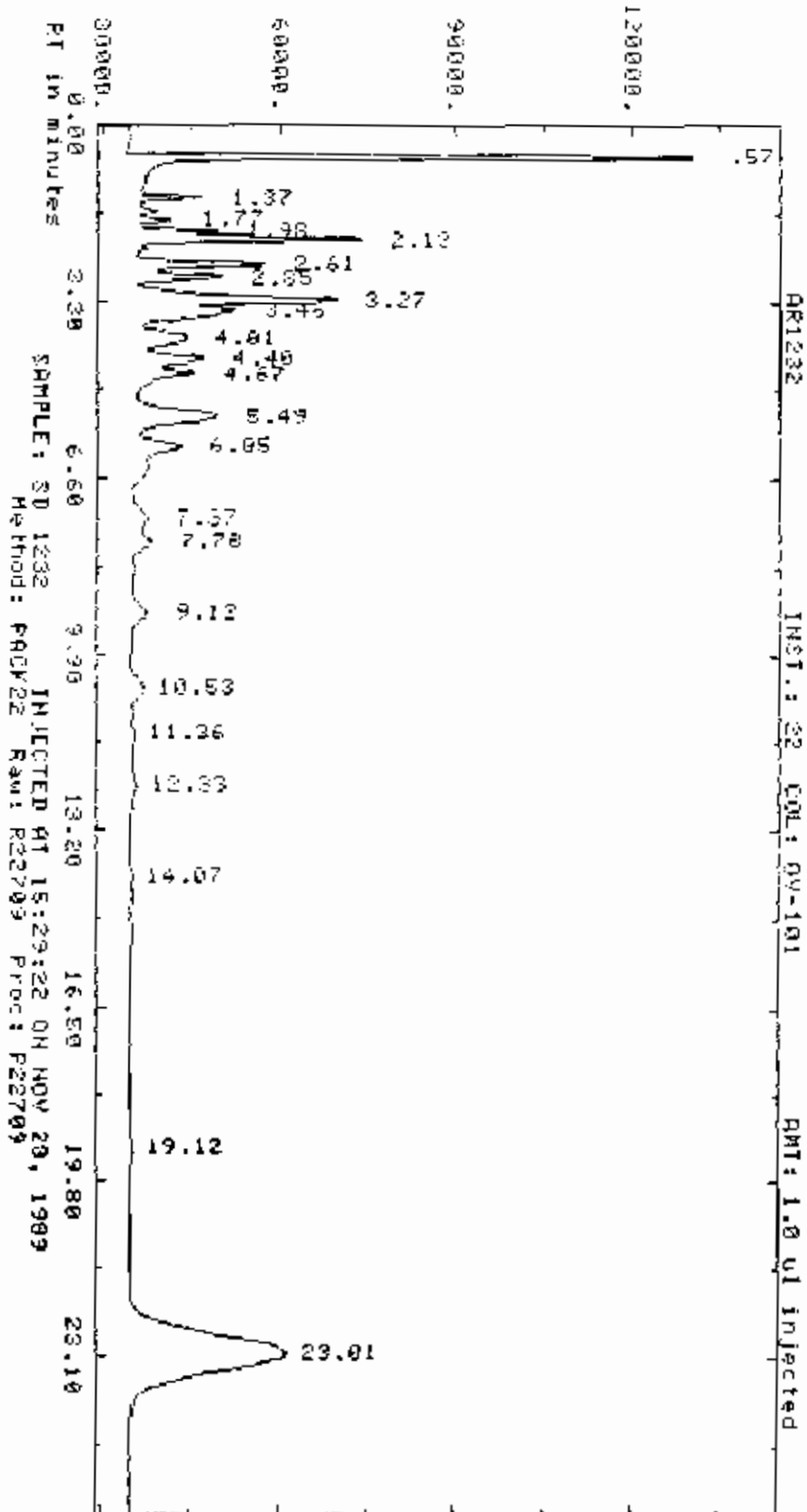
Total Area = 1523765.

Total AREA % = 641497.000

Processed data file: P22708

Raw data file: R22708

AMPLITUDE x .25 uV-seconds (Enlarged x 1.54)



Report: 1670.00 Channel: 22

AR1232

Sample: SD 1232

Injected at 15:29:22 ON NOV 28, 1989

ZERO Method: PACK22

Seq SEQ227

Subsq/3amp: 1/ 9

Ptr: 9

SI-width MU/Min Delay Min-Ar Sunch
.500 300 0.00 5000 Auto

Sup-Unk DUT IC-Lvl R-F-BW NRTU Xdil-f Iso
NO 0.00 0 30 5.0 100.00 NO

Actual run time: 26.008 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.57	0.00	10000E+01	215010.	13.322	BB
1.37	0.00	10000E+01	10826.	1.154	BB
1.77	0.00	10000E+01	11739.	.727	BB
1.98	0.00	10000E+01	10080.	.623	BB
2.13	0.00	10000E+01	85199.	5.279	BB
2.61	0.00	10000E+01	65372.	4.050	BB
2.95	0.00	10000E+01	36081.	2.245	BB
3.27	0.00	10000E+01	97574.	6.046	BB
3.44	0.00	10000E+01	41729.	2.565	BB
4.01	0.00	10000E+01	55373.	3.431	BB
4.40	0.00	10000E+01	10298.	1.497	BB
4.67	0.00	10000E+01	28044.	1.614	BB
5.49	0.00	10000E+01	117078.	7.255	BB
5.05	0.00	10000E+01	37703.	2.356	BB
7.37	0.00	10000E+01	5149.	.567	BB
7.78	0.00	10000E+01	15488.	1.950	BB
9.13	0.00	10000E+01	24449.	1.515	BB
10.53	0.00	10000E+01	33042.	1.483	BB
11.36	0.00	10000E+01	5898.	.365	BB
12.33	0.00	10000E+01	9723.	.602	BB
14.07	0.00	10000E+01	5503.	.341	BB
19.12	0.00	10000E+01	9108.	.564	BB
23.01	0.00	10000E+01	652832.	40.440	BF

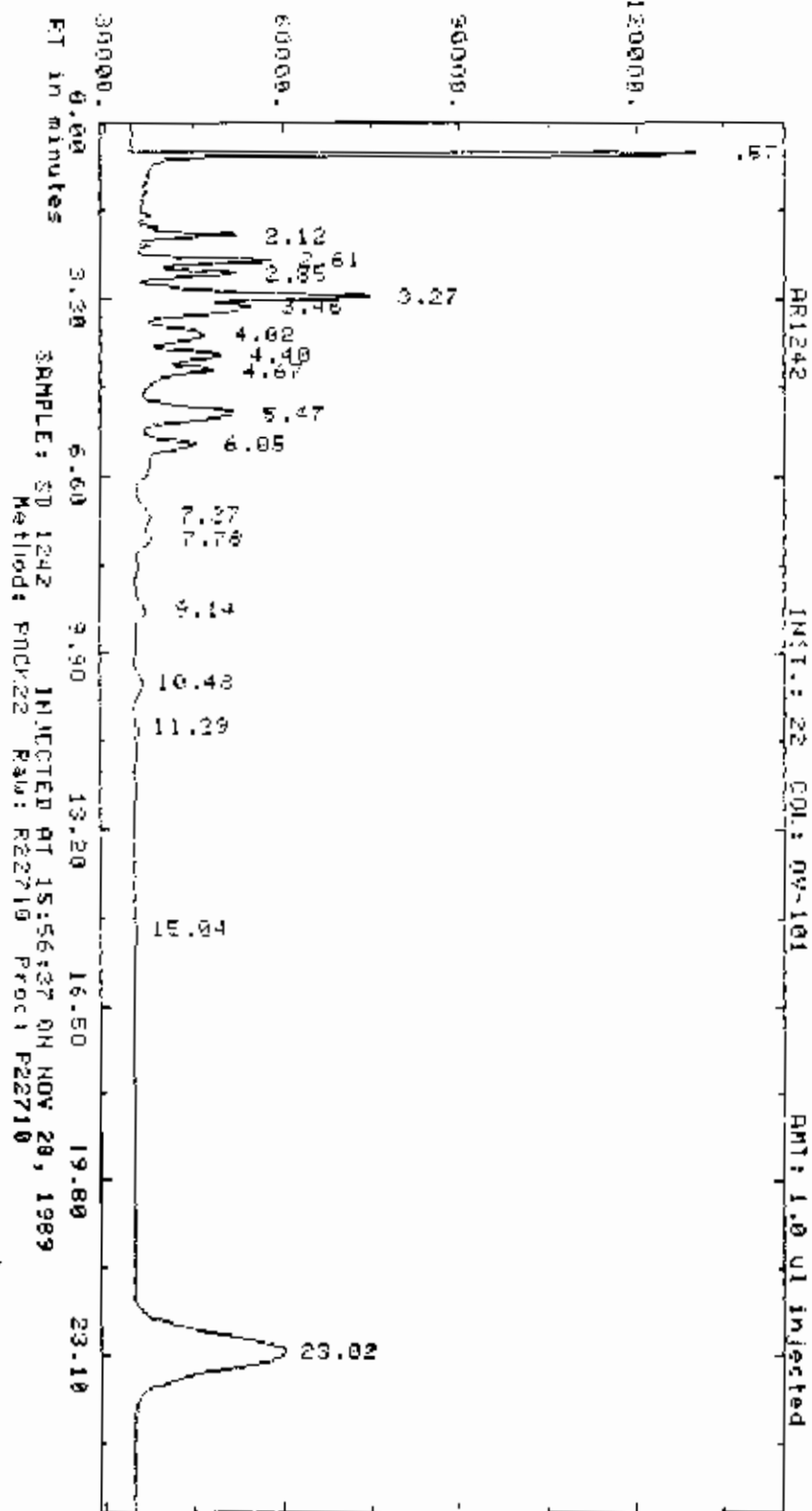
Total Area = 1613994

Total AREA % = 652832.000

Processed data file: P22709

Raw data file: R22709

AMPLITUDE x.25 uV-seconds (Enlarged x 1.35)



Report: 1671.00 Channel: 22

AR1242

Sample: SD 1242

Injected at 15:56:37 ON NOV 29, 1987

ZERO Method: PACK22

Seq: SE0227

Subseq/Samp: 1/10

Bin: 10

SI-width MV/Min Delay Run-Ar Bunch
.500 .300 0.00 5000 Auto

Sup-Dnk DvT ID-Lvl Ref-RW XRTW SD-Def Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.008 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.52	0.00	.10000E+01	274745	18.279	BB
2.12	0.00	.10000E+01	41007	2.743	BB
2.61	0.00	.10000E+01	65656	4.072	BB
2.85	0.00	.10000E+01	41691	2.585	BB
3.27	0.00	.10000E+01	110656	6.962	BB
3.46	0.00	.10000E+01	49504	2.822	BB
4.02	0.00	.10000E+01	66276	4.234	BB
4.40	0.00	.10000E+01	46984	2.852	BB
4.67	0.00	.10000E+01	29125	1.806	BB
5.47	0.00	.10000E+01	135851	8.425	BB
6.05	0.00	.10000E+01	48259	2.973	BB
7.37	0.00	.10000E+01	9014	.559	BB
7.78	0.00	.10000E+01	11046	.685	BB
9.14	0.00	.10000E+01	18676	1.158	BB
10.48	0.00	.10000E+01	14425	.895	BB
11.29	0.00	.10000E+01	6522	.404	BB
15.04	0.00	.10000E+01	7213	.451	BB
23.02	0.00	.10000E+01	618157	38.335	BF

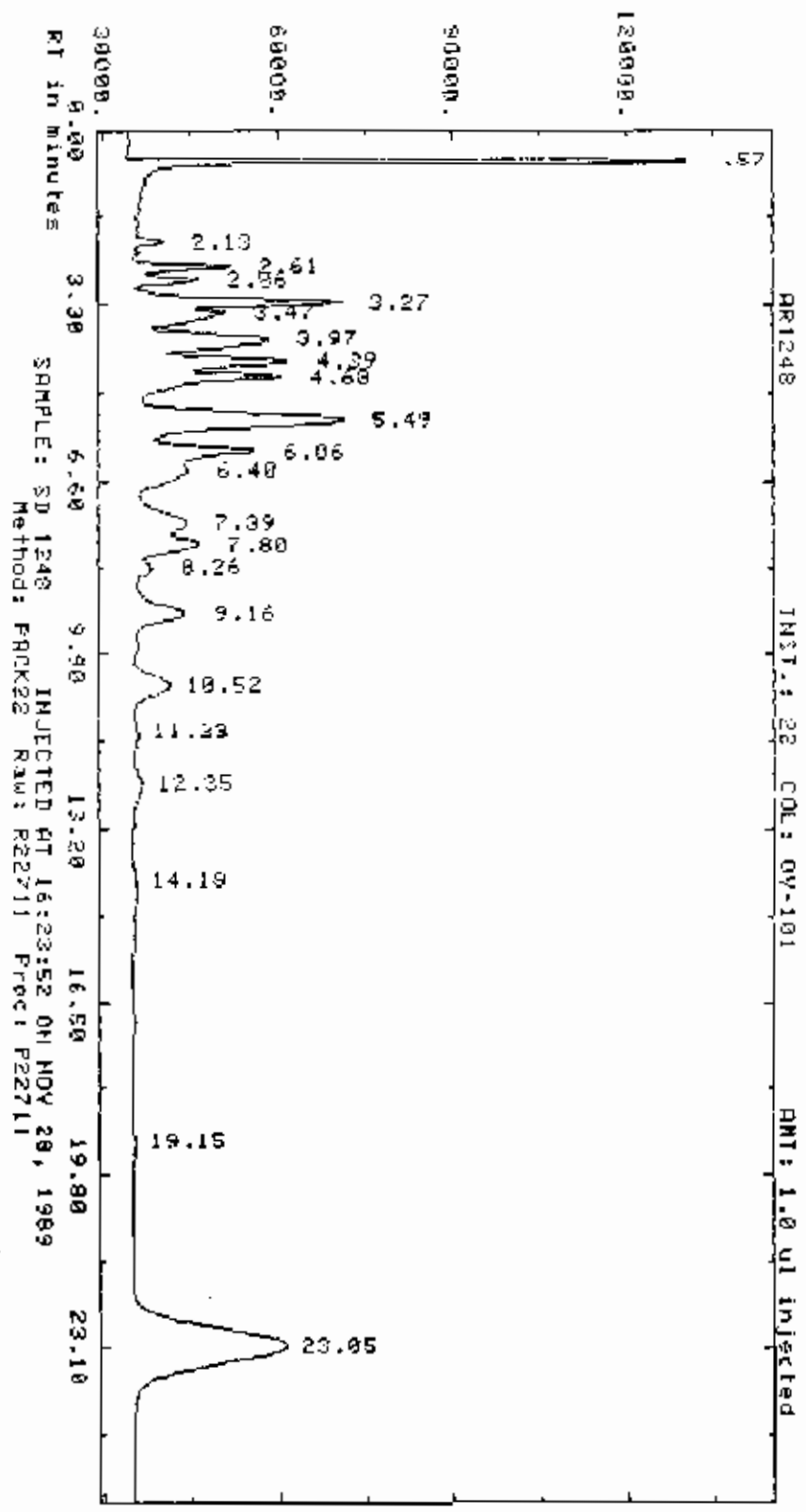
Total Area = 1612510.

Total AREA % = 618157.000

Processed data file: P22710

Raw data file: R22710

AMPLITUDE x.25 uV-seconds (Enlarged x 2.24)

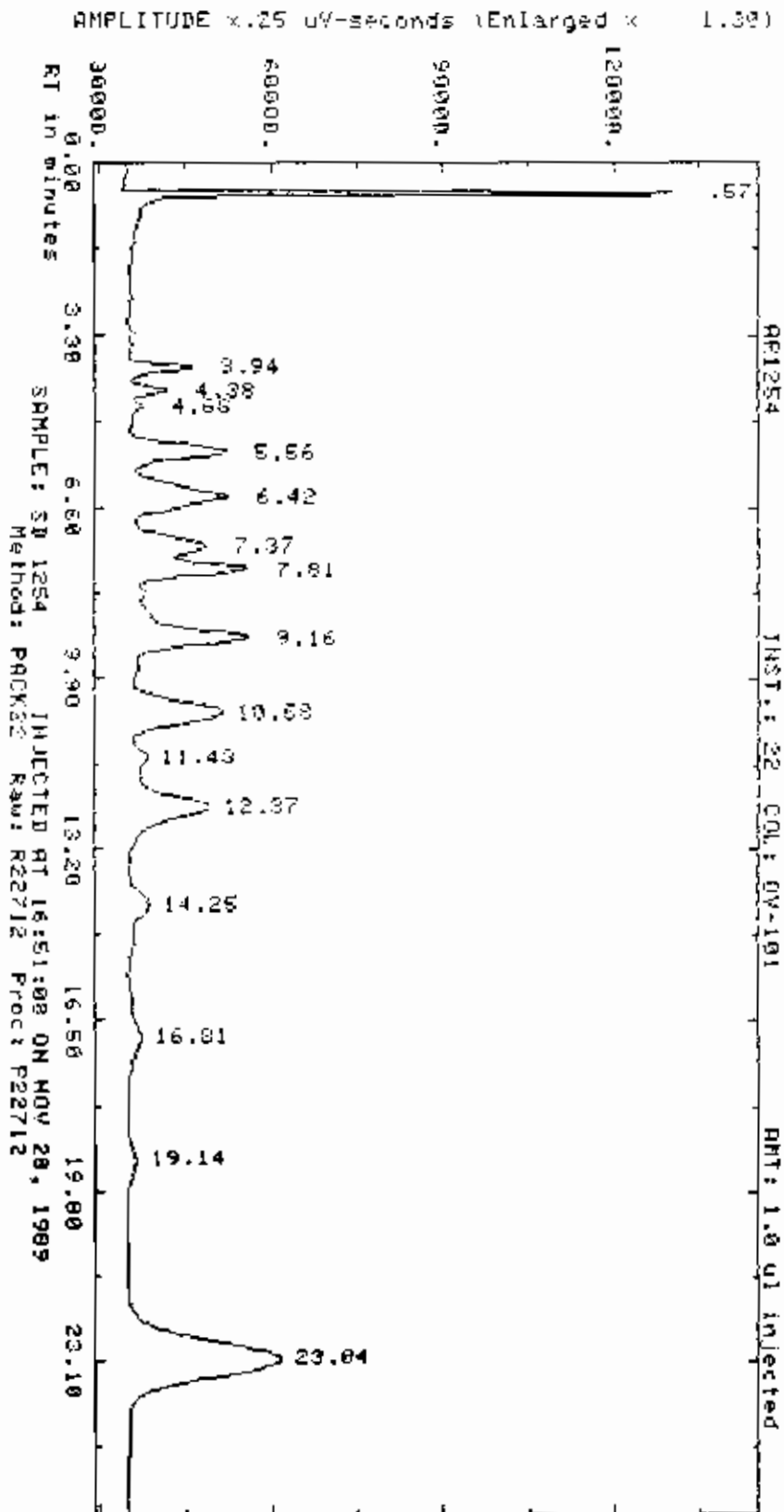


Report: 1672.00 Channel: 22 AR1248
 Sample: SD 1248 Injected at 16:23:32 ON NOV 28, 1989
 ZERO Method: PACK22 Seq: SEQ227 Subsq/Samp: 1/11 Btl: 11
 Sl-width MV/Min Delay In-Ar Bench
 .500 .200 0.00 5000 Auto
 Sup-Unk DvT ID-Lo1 Ref-RTW XRTW %Dil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
1.57	0.00	.10000E+01	440540	BB	18.998
2.13	0.00	.10000E+01	11642	BB	.502
2.61	0.00	.10000E+01	49290	BB	2.126
2.86	0.00	.10000E+01	29575	BB	1.275
3.27	0.00	.10000E+01	98877	BB	4.264
3.47	0.00	.10000E+01	37157	BB	1.602
3.97	0.00	.10000E+01	146819	BB	6.331
4.39	0.00	.10000E+01	85157	BB	3.672
4.69	0.00	.10000E+01	79396	BB	3.424
5.49	0.00	.10000E+01	312172	BB	13.462
6.06	0.00	.10000E+01	85740	BB	3.697
6.40	0.00	.10000E+01	19699	BB	.849
7.39	0.00	.10000E+01	34703	BB	1.500
7.80	0.00	.10000E+01	44983	BB	1.940
8.26	0.00	.10000E+01	10772	BB	.473
9.16	0.00	.10000E+01	83729	BB	3.611
10.52	0.00	.10000E+01	72566	BB	3.129
11.38	0.00	.10000E+01	5875	BB	.254
12.35	0.00	.10000E+01	18459	BB	.710
14.18	0.00	.10000E+01	6634	BB	.286
19.15	0.00	.10000E+01	7245	BB	.312
23.05	0.00	.10000E+01	639582	BB	27.581

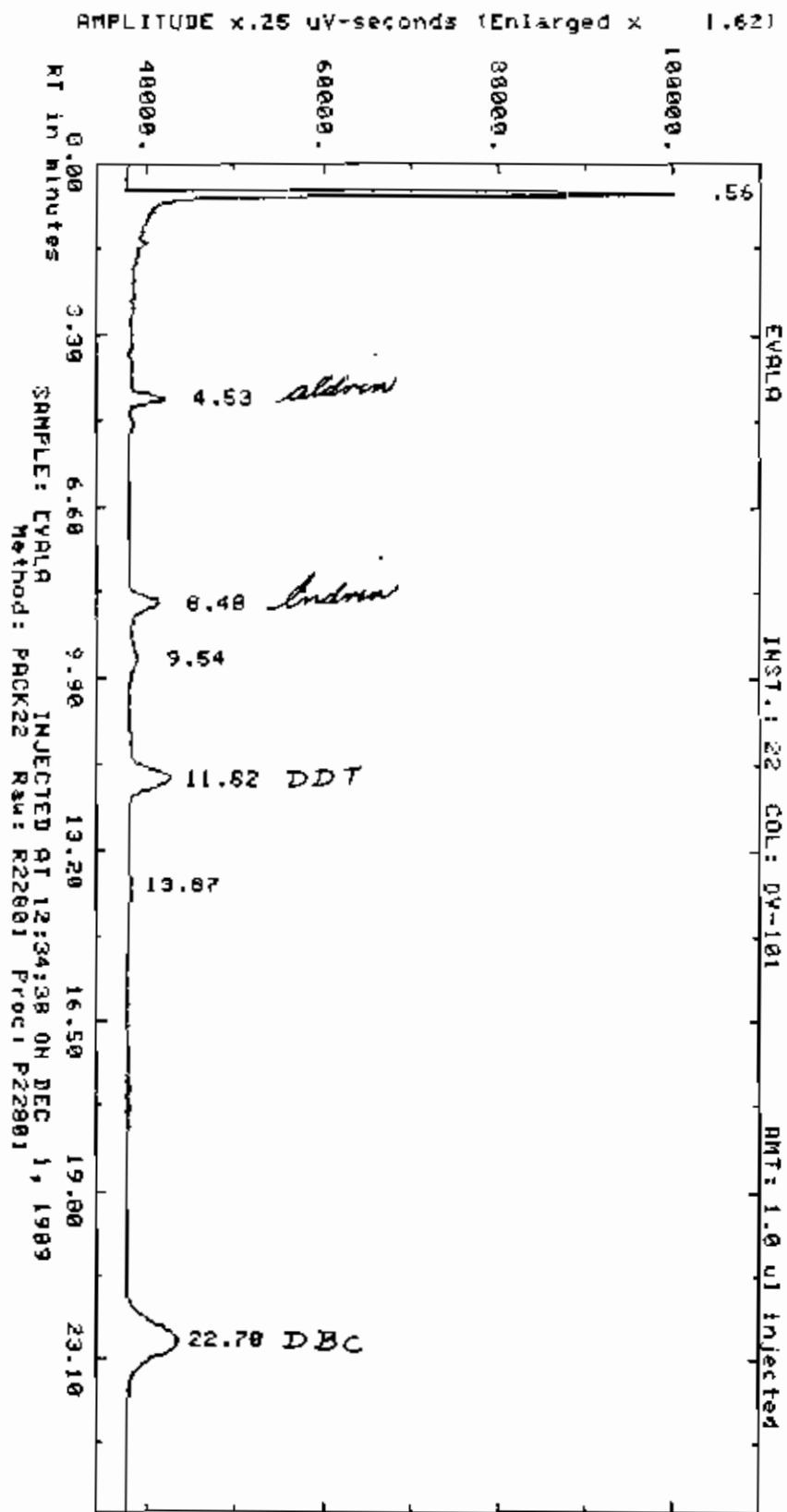
Total Area = 2518914. Total AREA % = 639582.000
 Processed data file: P22711 Raw data file: R22711



Report: 1673.00 Channel: 22 AR1254
 Sample: SD 1254 Injected at 16:51:08 ON NOV 28, 1987
 ZERO Method: PACK22 Seq: SEQ227 Subsq/Samp: 1/12 Btl: 12
 Sl-width 500 MV/Kin .300 Delay 0.00 Min-Ar 5000 Bunch Auto
 Sup-Unk NO DvT 0.00 ID-Lvl 0 Ref-RTW .30 %RTW 5.0 %Dil-f 100.00 Iso NO

Actual run time: 26.017 minutes
 Ended not on baseline

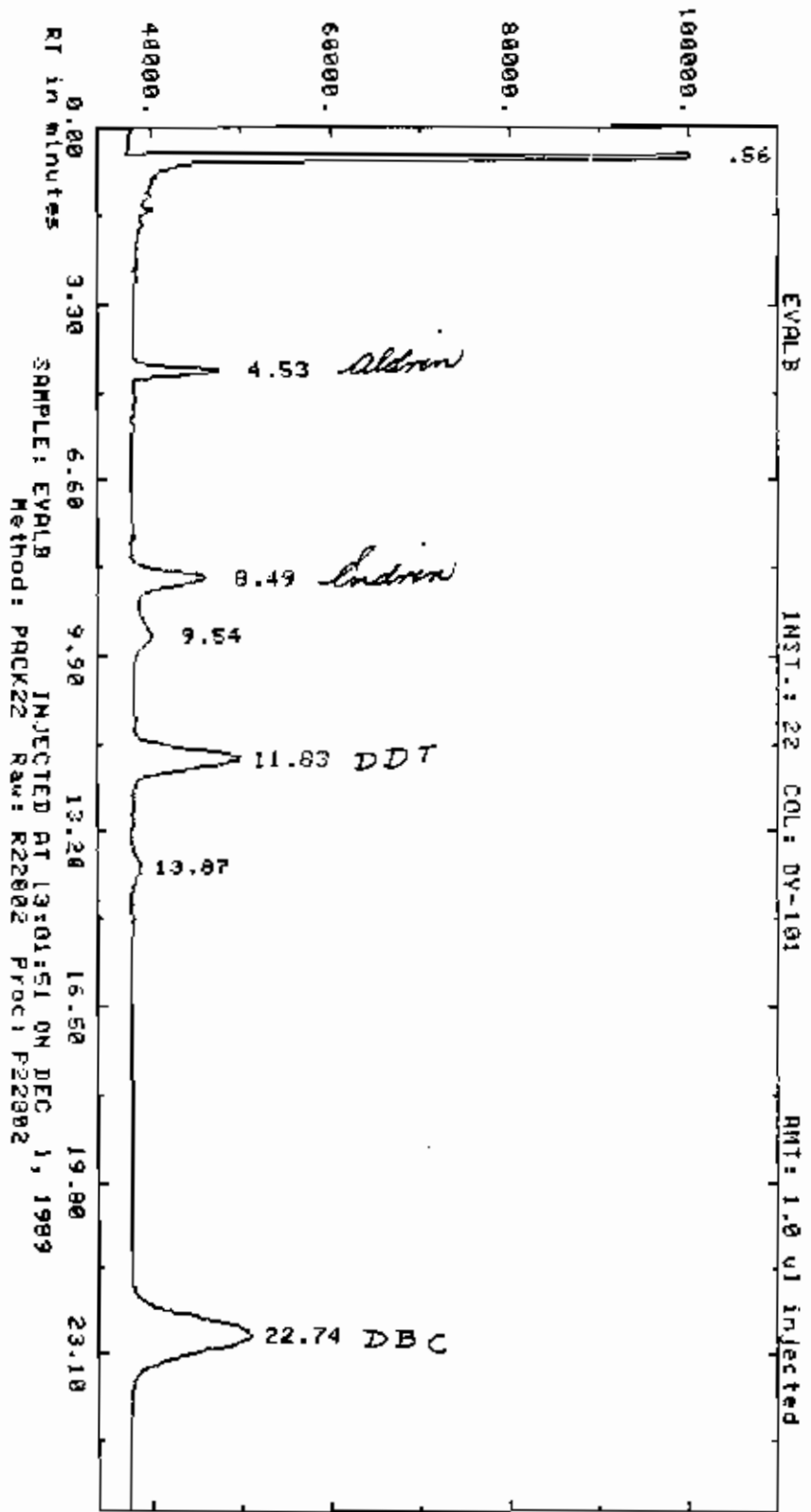
RT	ITM	Factor	Area	AREA %	Name
3.57	0.00	.10000E+01	289173.	BB	12.532
3.94	0.00	.10000E+01	57234.	BB	2.480
4.38	0.00	.10000E+01	26550.	BB	1.151
4.68	0.00	.10000E+01	6076.	BB	.263
5.56	0.00	.10000E+01	150498.	BB	6.522
6.42	0.00	.10000E+01	189423.	BB	8.209
7.37	0.00	.10000E+01	57719.	BB	2.501
7.81	0.00	.10000E+01	110696.	BB	4.747
9.16	0.00	.10000E+01	207407.	BB	8.988
10.58	0.00	.10000E+01	211834.	BB	9.180
11.43	0.00	.10000E+01	16786.	BB	.727
12.37	0.00	.10000E+01	187520.	BB	8.127
14.25	0.00	.10000E+01	43351.	BB	1.879
16.01	0.00	.10000E+01	55246.	BB	2.394
19.14	0.00	.10000E+01	28304.	BB	1.227
23.04	0.00	.10000E+01	669655.	BF	29.021
Total Area = 2387476.			Total AREA % = 669655.000		
Processed data file: P22712			Raw data file: R22712		



Report: 1763.00 Channel: 22 EVALA
 Sample: EVALA Injected at 12:34:38 ON DEC 1, 1987
 ZERO Method: PACK22 Seq: SEQ228 Subsq/Samp: 1/1 Btl: 1
 S1-width 500 MV/Min .300 Delay 0.00 Min-Ar 5000 Bunch Auto
 Sup-Unk NO DvT 0.00 ID-Lvl 0 Ref-RTW .30 XRTW 5.0 ZDil-f 100.00 Iso NO
 Actual run time: 26.008 minutes

RT	ITH	Factor	Area	AREA %	Name
.56	0.00	.10000E+01	207400. BB	53.802	
4.53	0.00	.10000E+01	21000. BB	3.904	
8.48	0.00	.10000E+01	27515. BB	5.171	
9.54	0.00	.10000E+01	10268. BB	1.909	
11.82	0.00	.10000E+01	92620. BB	9.704	
13.57	0.00	.10000E+01	5973. BB	1.110	
22.70	0.00	.10000E+01	130814. BB	24.319	
Total Area = 537899.			Total AREA % = 130814.000		
Processed data file: P22801			Raw data file: R22801		

AMPLITUDE x.25 uV-seconds (Enlarged x 2.00)



Report: 1764.00 Channel: 22

EVALB

Sample: EVALB

Injected at 13:01:51 ON DEC 1, 1989

ZERO Method: PACK22

Seq: SEQ228

Subsq/Samp: 1/2

Rtl: 2

Sl-width MU/Min Delay Min-Ar Bunch
.500 .300 0.00 5000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.56	0.00	.10000E+01	409916.	BS	40.133
4.53	0.00	.10000E+01	45864.	BB	4.784
8.49	0.00	.10000E+01	69371.	BB	6.792
9.54	0.00	.10000E+01	22764.	BB	2.229
11.83	0.00	.10000E+01	139896.	BB	13.697
13.87	0.00	.10000E+01	14125.	BB	1.383
22.74	0.00	.10000E+01	316459.	BF	30.983

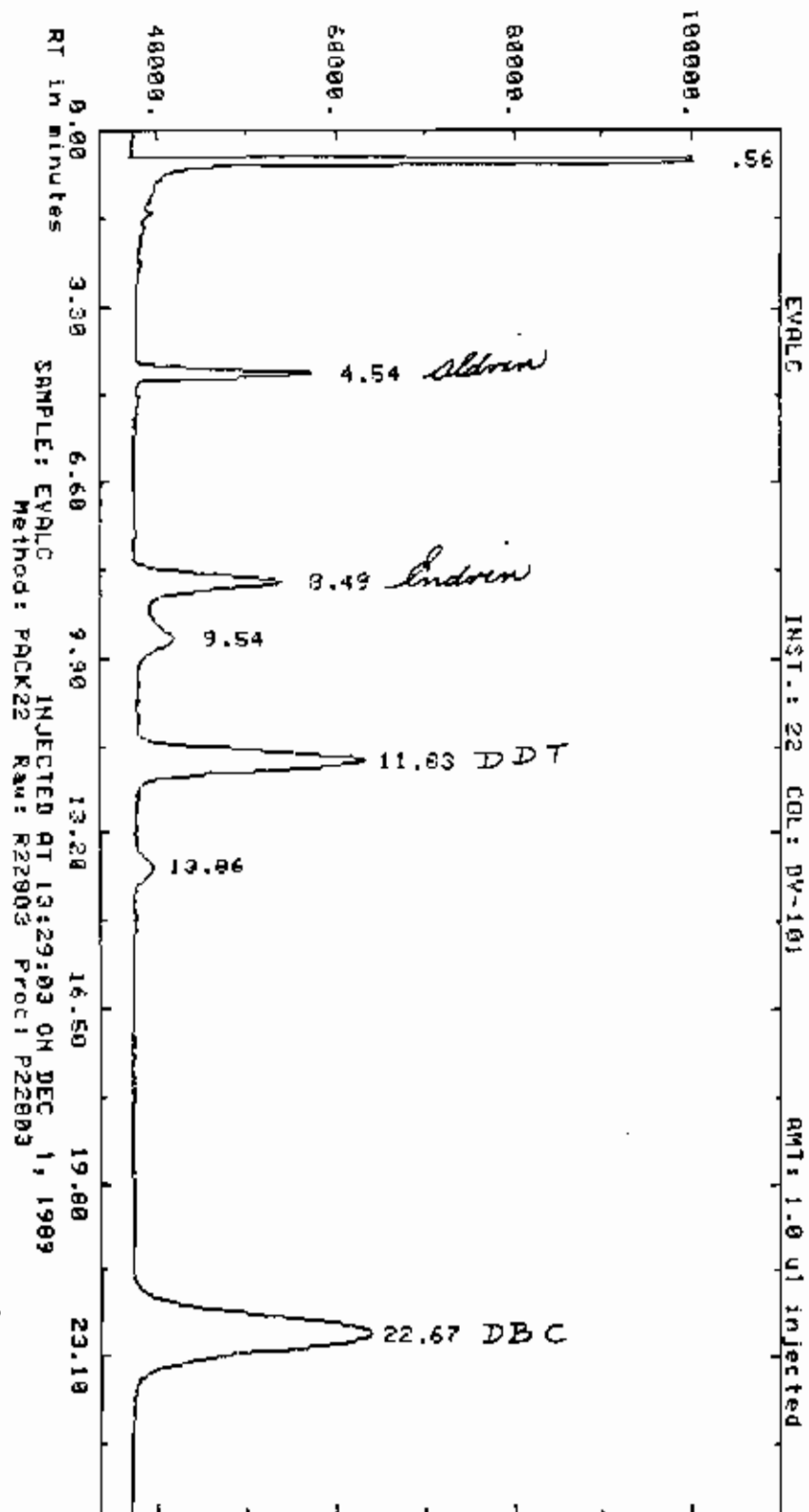
Total Area = 1021396.

Total AREA % = 316459.000

Processed data file: P22802

Raw data file: R22802

AMPLITUDE x.25 uV-seconds (Enlarged x 3.65)



Report: 176S.00 Channel: 22

EVALC

Sample: EVALC

Injected at 13:29:03 ON DEC 1, 1989

ZERO Method: PACK22

Seq: SEQ228

Subsq/Samp: 1/ 3

Btl: 3

Sl-width MV/Min Delay Min-Ap Bunch
.500 .300 0.00 5000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW XRTW %Dil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

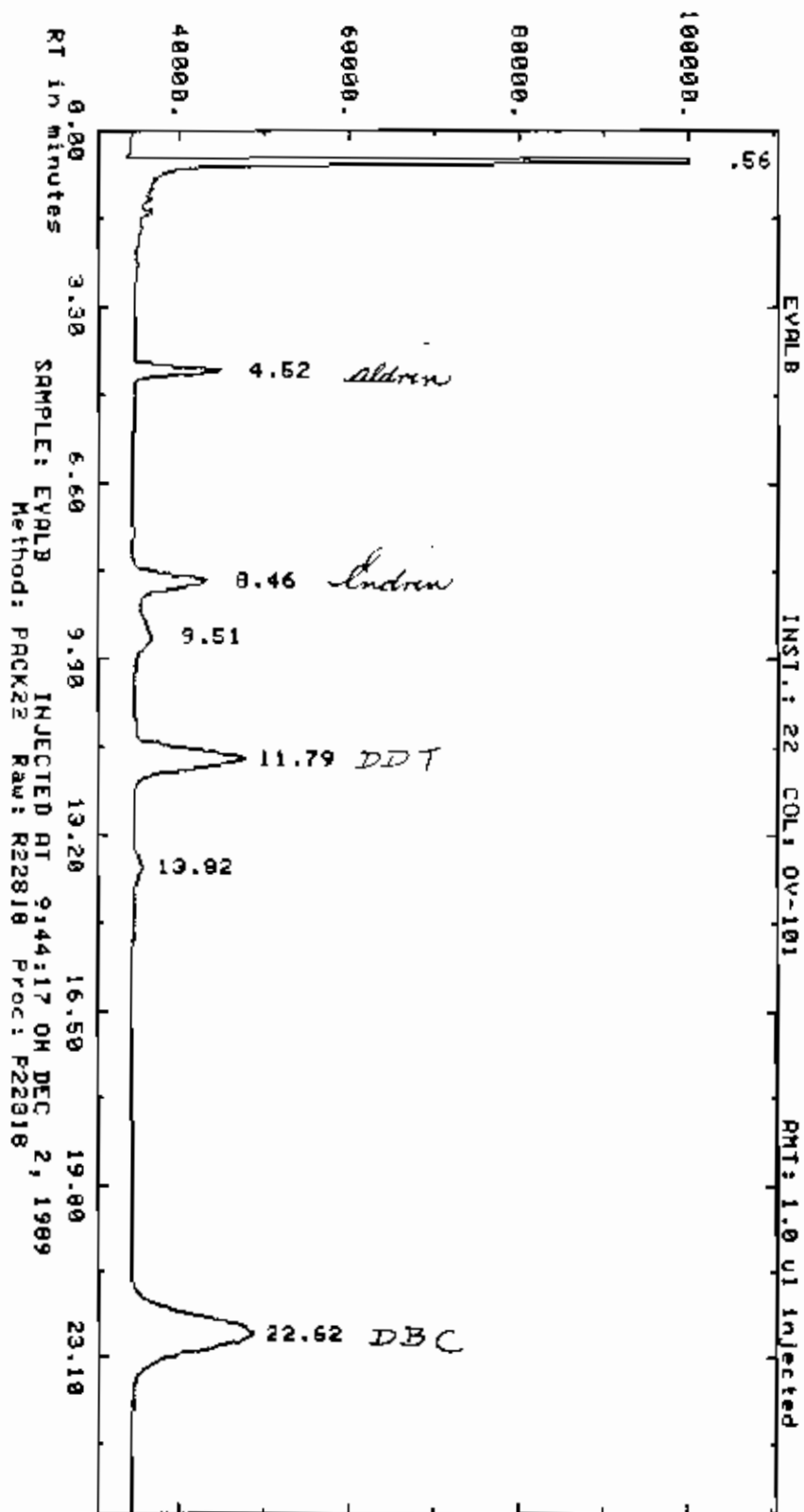
Actual run time: 26.017 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.56	0.00	.10000E+01	477698.	27.617	BS
4.54	0.00	.10000E+01	101022.	5.840	BB
8.49	0.00	.10000E+01	139200.	8.048	BB
9.54	0.00	.10000E+01	37761.	2.183	BB
11.83	0.00	.10000E+01	314390.	18.176	BB
13.86	0.00	.10000E+01	29217.	1.689	BB
22.67	0.00	.10000E+01	630419.	36.447	BF

Total Area = 1729707. Total AREA X = 630419.000
Processed data file: P22803 Raw data file: R22803

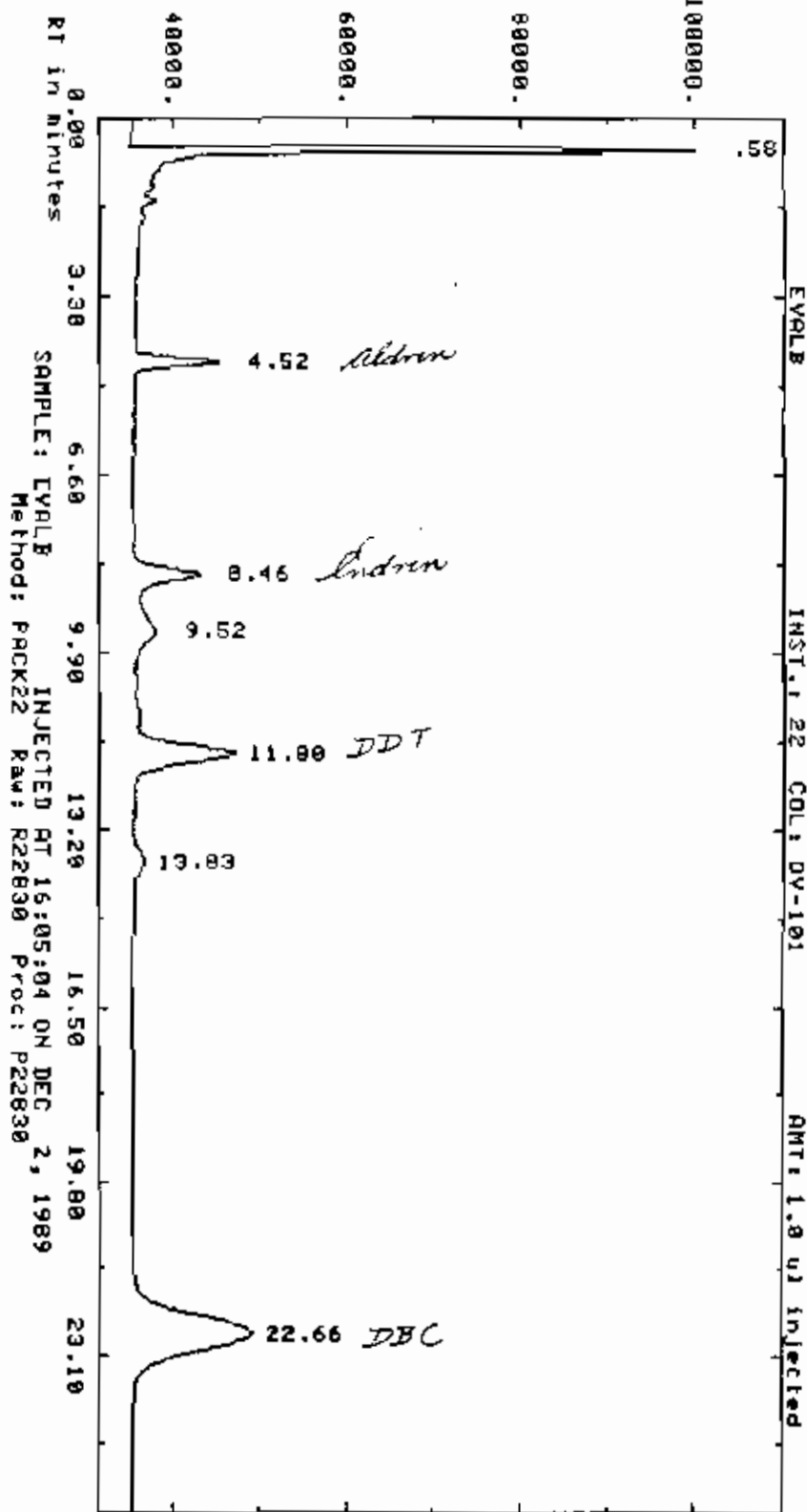
AMPLITUDE x.25 uV-seconds (Enlarged x 2.53)



Report: 1780.00 Channel: 22 EVALB
 Sample: EVALB Injected at 9:44:17 ON DEC 2, 1989
 ZERO Method: PACK22 Seq: SEQ228 Subsq/Samp: 1/18 Btl: 18
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DuT ID-Lvl Ref-RTW XRTW XDil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.008 minutes

RT	ITM	Factor	Area	AREA %	Name
.56	0.00	.10000E+01	370554.	BS	36.539
4.52	0.00	.10000E+01	50261.	BB	4.956
8.46	0.00	.10000E+01	71139.	BB	7.015
9.51	0.00	.10000E+01	17405.	BB	1.714
11.79	0.00	.10000E+01	156136.	BB	15.396
13.82	0.00	.10000E+01	14369.	BB	1.417
22.62	0.00	.10000E+01	332259.	BB	32.763
Total Area =		1014124.	Total AREA % =		332259.000
Processed data file: P22818			Raw data file: R22818		

AMPLITUDE x.25 uV-seconds (Enlarged x 2.84)



Report: 1792.00 Channel: 22

EVALB

Sample: EVALB

Injected at 16:05:04 ON DEC 2, 1989

ZERO Method: PACK22

Seq: SEQ228

Subsq/Samp: 1/30

Btl: 30

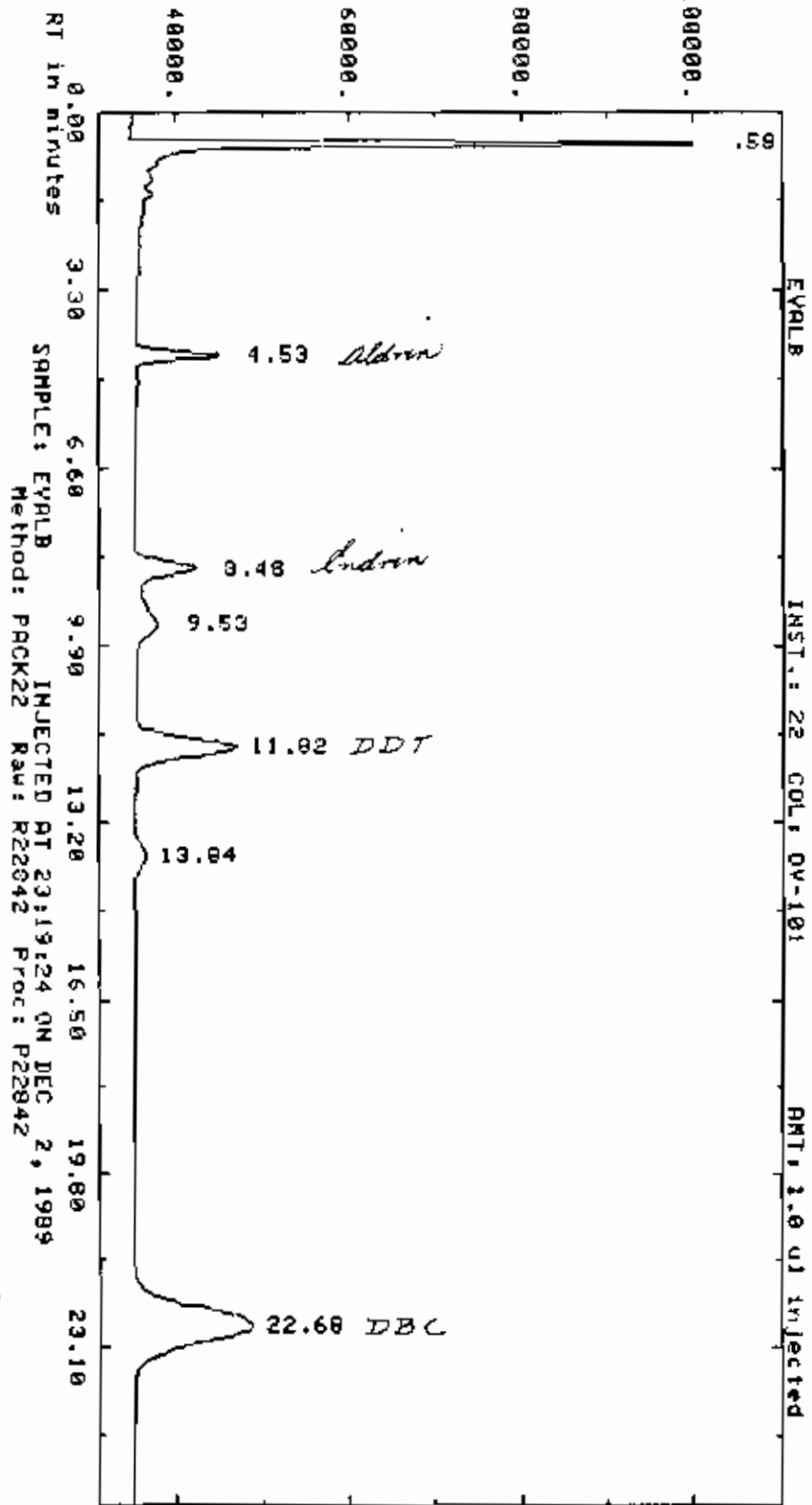
Sl-width MU/Min Delay Min-Ar Bunch
.500 .300 0.00 5000 Auto

Sup-Unk DuT ID-Lvl Ref-RTW XRTW XDil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.008 minutes

RT	ITM	Factor	Area	AREA %	Name
.58	0.00	.10000E+01	397724. BB	39.423	
4.52	0.00	.10000E+01	49955. BB	4.952	
8.46	0.00	.10000E+01	63206. BB	6.265	
9.52	0.00	.10000E+01	28541. BB	2.829	
11.80	0.00	.10000E+01	130789. BB	12.964	
13.83	0.00	.10000E+01	16656. BB	1.651	
22.66	0.00	.10000E+01	322003. BB	31.917	
Total Area =		1008873.	Total AREA % =		322003.000
Processed data file: P22830			Raw data file: R22830		

AMPLITUDE x.25 uV-seconds (Enlarged x 2.68)



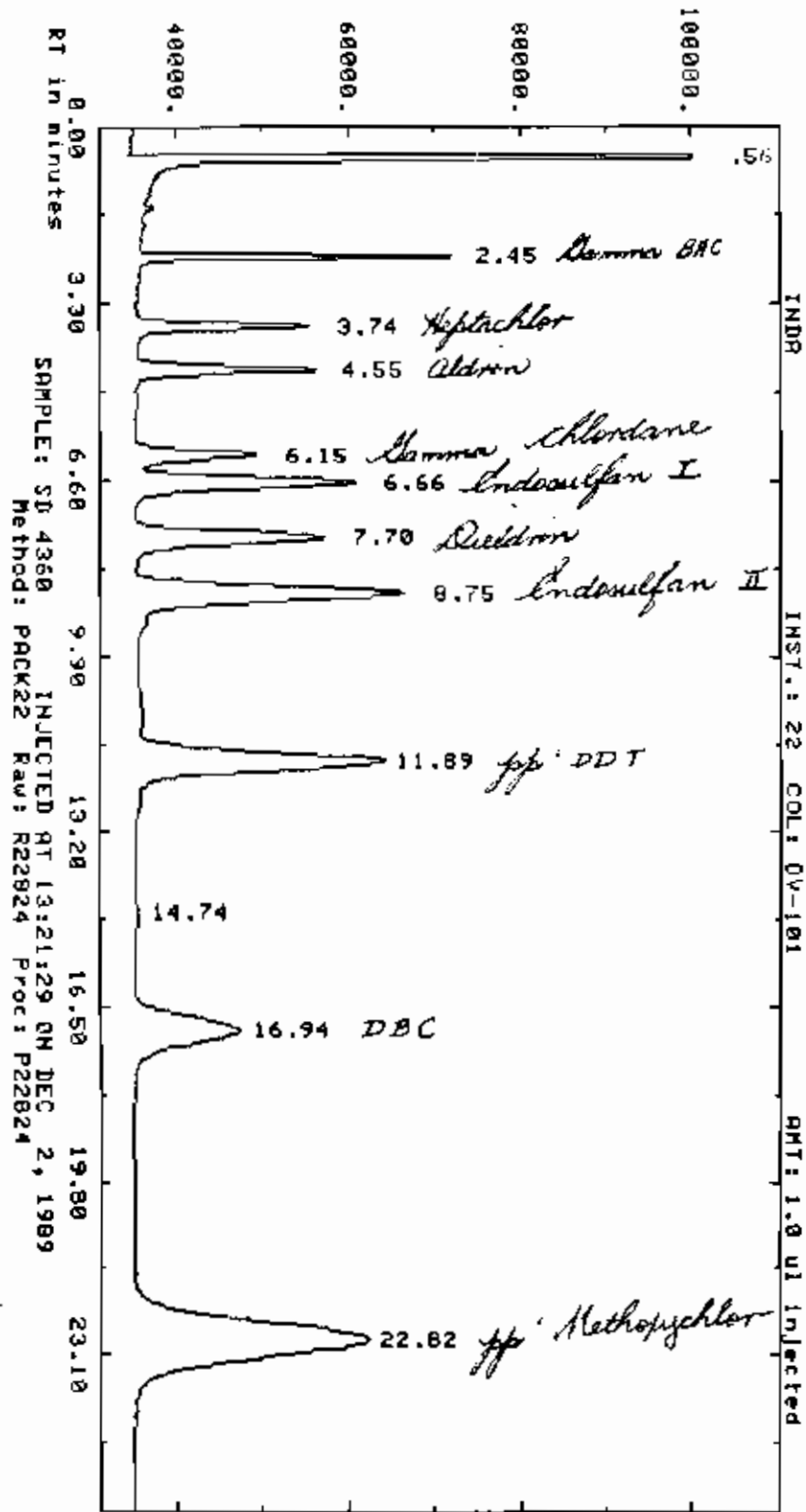
Report: 1806.00 Channel: 22 EVALB
 Sample: EVALB Injected at 23:19:24 ON DEC 2, 1989
 ZERO Method: PACK22 Seq: SEQ228 Subsq/Samp: 1/42 Btl: 42
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DuT ID-Lvl Ref-RTW XRTW %Dil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.008 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.58	0.00	.10000E+01	367240.	BB	37.175
4.53	0.00	.10000E+01	49837.	BB	5.045
8.48	0.00	.10000E+01	58527.	BB	5.924
9.53	0.00	.10000E+01	33016.	BB	3.342
11.82	0.00	.10000E+01	136695.	BB	13.837
13.84	0.00	.10000E+01	19848.	BB	2.009
22.68	0.00	.10000E+01	322717.	BF	32.668
Total Area =		987879.	Total AREA % =		322717.000
Processed data file: P22842			Raw data file: R22842		

AMPLITUDE x.25 uV-seconds (Enlarged x 1.04)

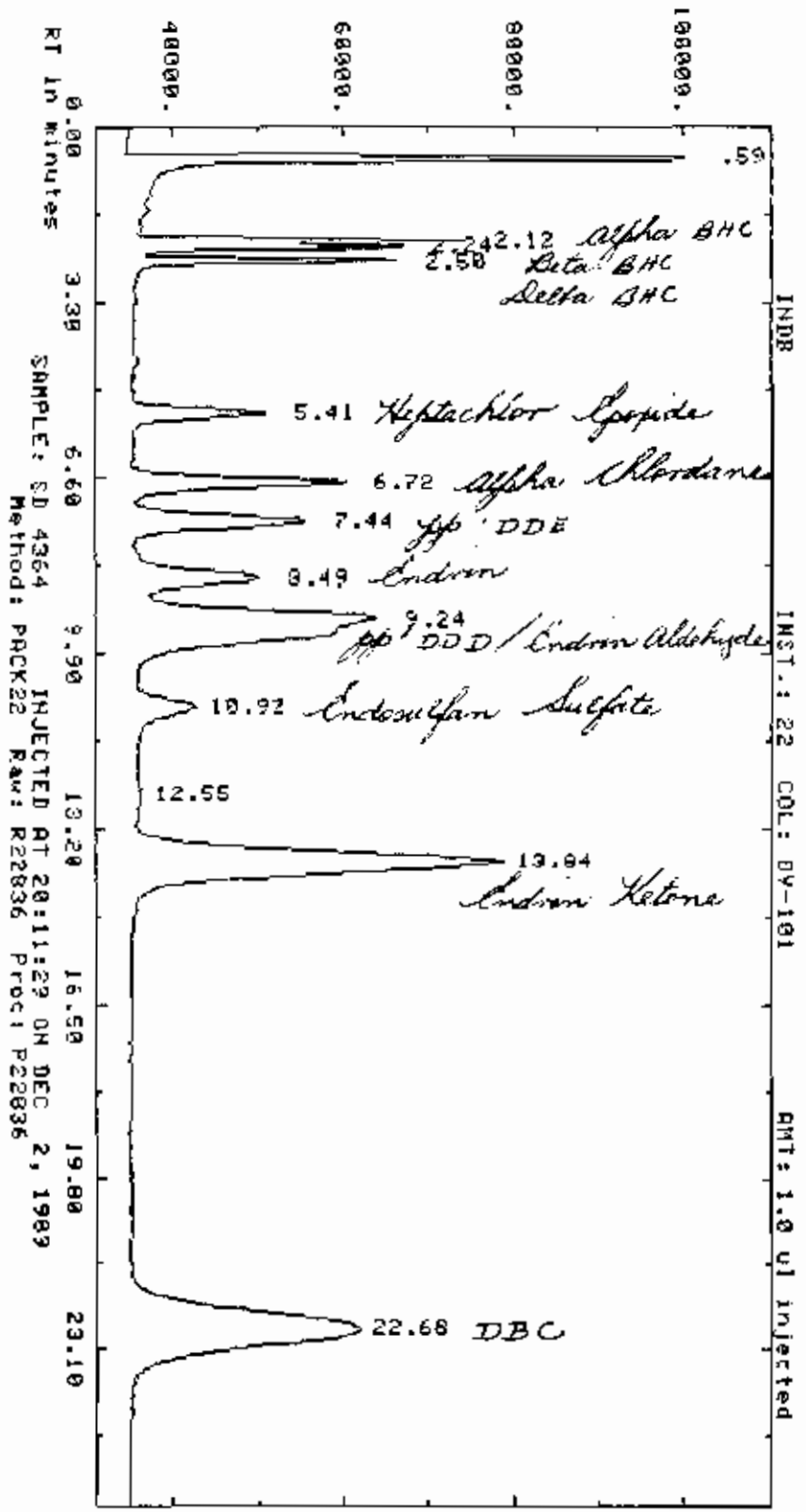


Report: 1786.00 Channel: 22 INDA
 Sample: SD 4360 Injected at 13:21:29 ON DEC 2, 1989
 ZERO Method: PACK22 Seq: SEQ228 Subsq/Samp: 1/24 Btl: 24
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-F Iso
 NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.017 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA X	Name
.56	0.00	.10000E+01	324007.	BB	12.365
2.45	0.00	.10000E+01	115801.	BB	4.419
3.74	0.00	.10000E+01	88348.	BB	3.372
4.55	0.00	.10000E+01	106235.	BB	4.054
6.15	0.00	.10000E+01	85946.	BB	3.280
6.66	0.00	.10000E+01	179668.	BB	6.857
7.70	0.00	.10000E+01	183058.	BB	6.986
8.75	0.00	.10000E+01	317235.	BB	12.107
11.89	0.00	.10000E+01	348076.	BB	13.284
14.74	0.00	.10000E+01	5409.	BB	.206
16.94	0.00	.10000E+01	209619.	BB	8.000
22.82	0.00	.10000E+01	656953.	BF	25.071
Total Area =			2620357.	Total AREA X = 656953.000	
Processed data file: P22824			Raw data file: R22824		

AMPLITUDE x.25 uV-seconds (Enlarged x 4.37)



Report: 1800.00 Channel: 22 INDR
 Sample: SD 4364 Injected at 20:11:29 ON DEC 2, 1989
 ZERO Method: PACK22 Seq: SEQ22B Subsq/Samp: 1/36 Btl: 36
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW %Dil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.008 minutes

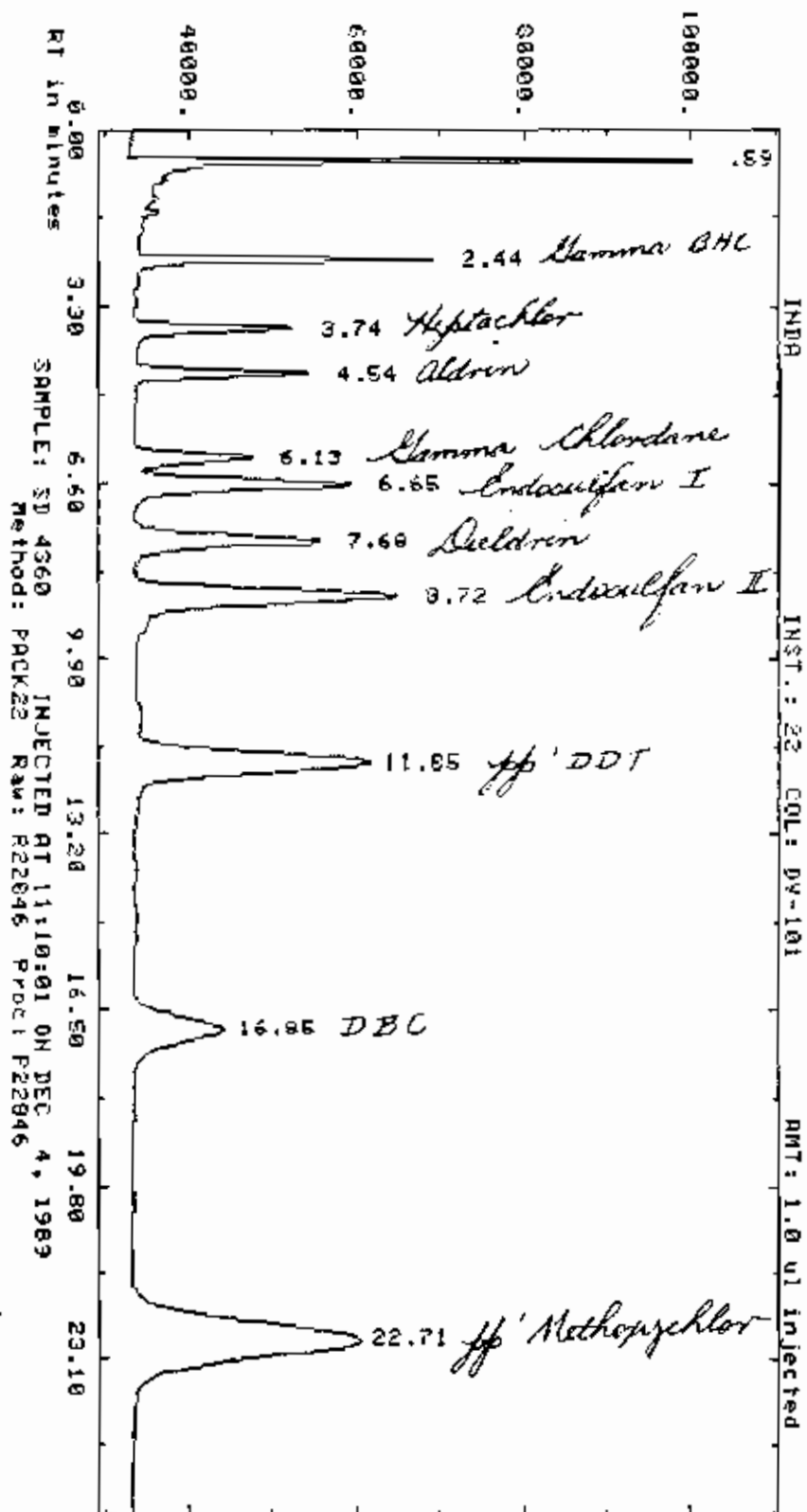
Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.59	0.00	.10000E+01	534699.	19.618	BS
2.12	0.00	.10000E+01	47425.	1.740	BB
2.24	0.00	.10000E+01	34348.	1.260	BB
2.50	0.00	.10000E+01	88803.	3.250	BB
5.41	0.00	.10000E+01	96253.	3.532	BB
6.72	0.00	.10000E+01	185402.	6.805	BB
7.44	0.00	.10000E+01	159109.	5.838	BB
8.49	0.00	.10000E+01	118140.	4.335	BB
9.24	0.00	.10000E+01	75420.	2.767	BB
10.92	0.00	.10000E+01	82726.	3.035	BB
12.55	0.00	.10000E+01	5700.	.209	BB
13.84	0.00	.10000E+01	653602.	23.981	BB
22.68	0.00	.10000E+01	643784.	23.621	BF

Total Area = 2725492. Total AREA % = 643784.000

Processed data file: P22836 Raw data file: R22836

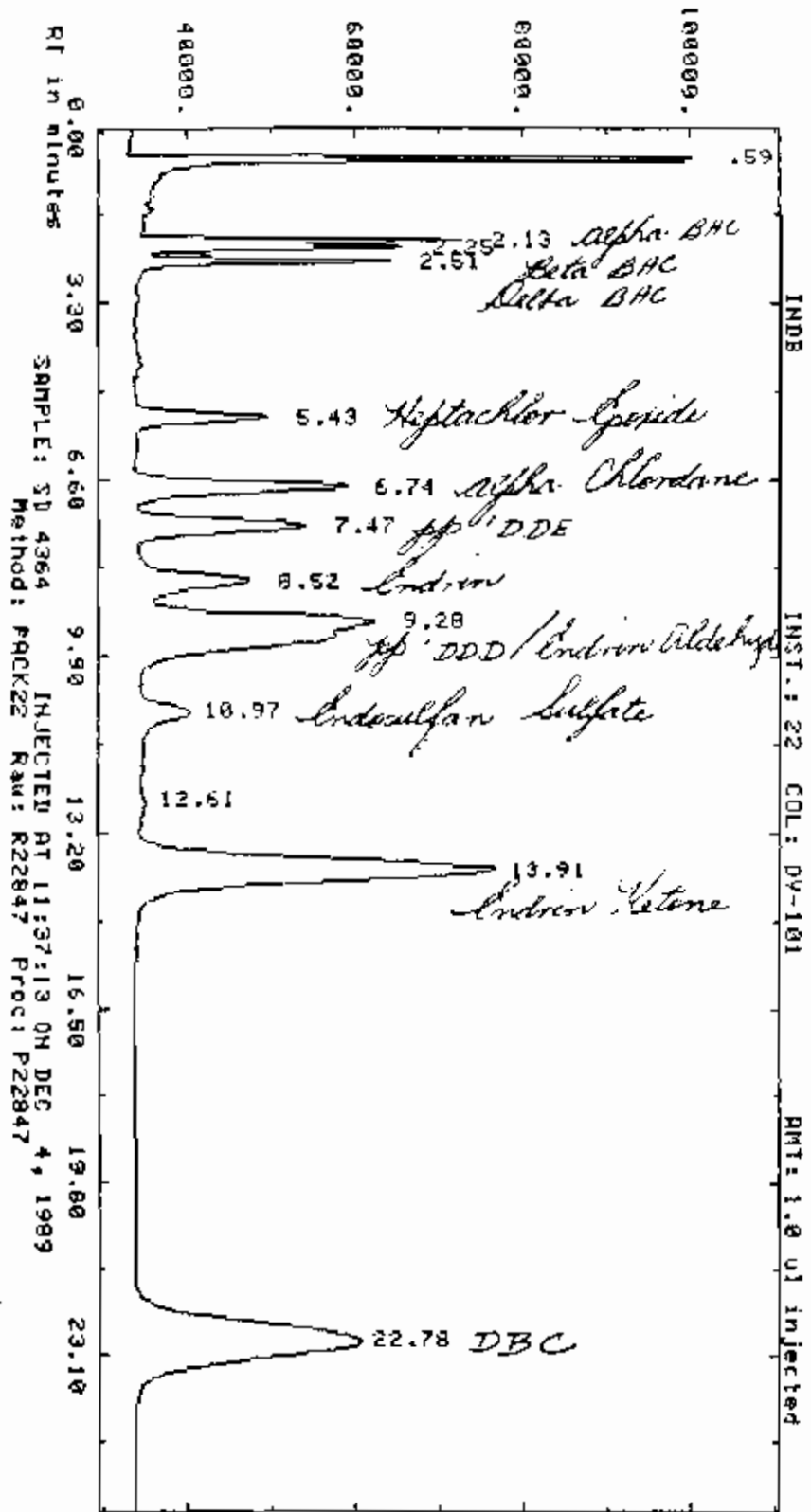
AMPLITUDE x.25 UV-seconds (Enlarged x 2.14)



Report: 1810.00 Channel: 22 INDA
 Sample: SD 4360 Injected at 11:10:01 ON DEC 4, 1989
 ZERO Method: PACK22 Seq: SEQ22B Subsq/Samp: 1/46 Btl: 46
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.017 minutes

RT	ITM	Factor	Area	AREA %	Name
.59	0.00	.10000E+01	307160.	11.960	BB
2.44	0.00	.10000E+01	117589.	4.579	BB
3.74	0.00	.10000E+01	86264.	3.359	BB
4.54	0.00	.10000E+01	107740.	4.195	BB
6.13	0.00	.10000E+01	86284.	3.360	BB
6.65	0.00	.10000E+01	181372.	7.062	BB
7.53	0.00	.10000E+01	185824.	7.236	BB
9.72	0.00	.10000E+01	323212.	12.585	BB
11.85	0.00	.10000E+01	337221.	13.131	BB
16.85	0.00	.10000E+01	184231.	7.174	BB
22.71	0.00	.10000E+01	651306.	25.360	BB
Total Area =		2568210.	Total AREA % =		651306.000
Processed data file: P22846			Raw data file: R22846		

AMPLITUDE x.25 uV-seconds (Enlarged x 4.91)



Report: 1011.00 Channel: 22 INDR
 Sample: SD 4364 Injected at 11:37:13 ON DEC 4, 1989
 ZERO Method: PACK22 Seq: SEQ220 Subsq/Samp: 1/47 Bit: 47
 Sl-Width 500 MV/Min .300 Delay 0.00 Min-Ar 5000 Bunch Auto
 Sup-Unk NO DvT 0.00 ID-Lvl 0 Ref-RTW .30 XRTW 5.0 XDil-f 100.00 Iso NO
 Actual run time: 26.008 minutes
 Ended not on baseline

RT	ITH	Factor	Area	AREA %	Name
.59	0.00	.10000E+01	490371.	18.359	BS
1.13	0.00	.10000E+01	45049.	1.687	BB
2.25	0.00	.10000E+01	33828.	1.266	BB
3.51	0.00	.10000E+01	87844.	3.289	BB
5.43	0.00	.10000E+01	98438.	3.685	BB
6.74	0.00	.10000E+01	168940.	6.074	BB
7.47	0.00	.10000E+01	159451.	5.970	BB
8.52	0.00	.10000E+01	107233.	4.015	BB
9.28	0.00	.10000E+01	77974.	2.919	BB
10.97	0.00	.10000E+01	73806.	2.763	BB
12.61	0.00	.10000E+01	8506.	.314	BB
13.91	0.00	.10000E+01	652582.	24.432	BB
22.78	0.00	.10000E+01	649041.	24.299	BF
Total Area =		2671064.	Total AREA % =		649041.000
Processed data file:		P22047	Raw data file:		R22047

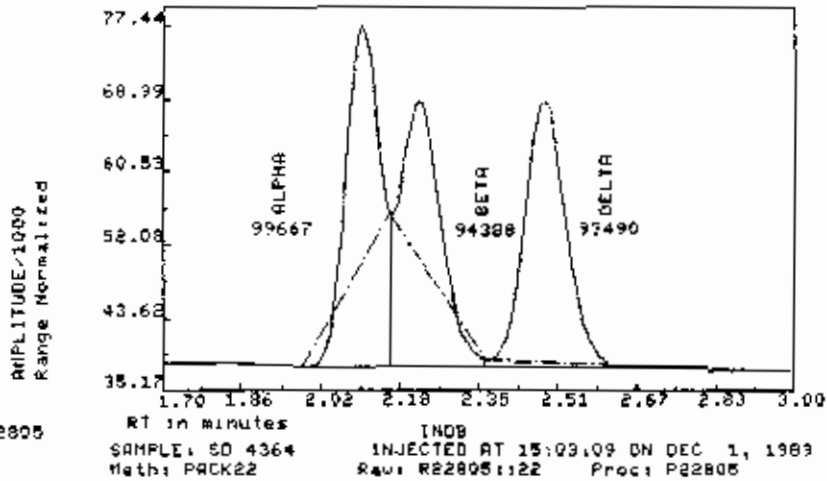
RESULTS OF MANUAL INTEGRATION FROM CPLIT

RAW DATA FILE: R22805:122

INJECTED AT: 15:03:09 ON DEC 1, 1989

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	2.00	2.17	99667	34.7
2	2.17	2.36	94388	32.8
3	2.36	2.71	93490	32.5



RESULTS OF MANUAL INTEGRATION FROM DPL0T

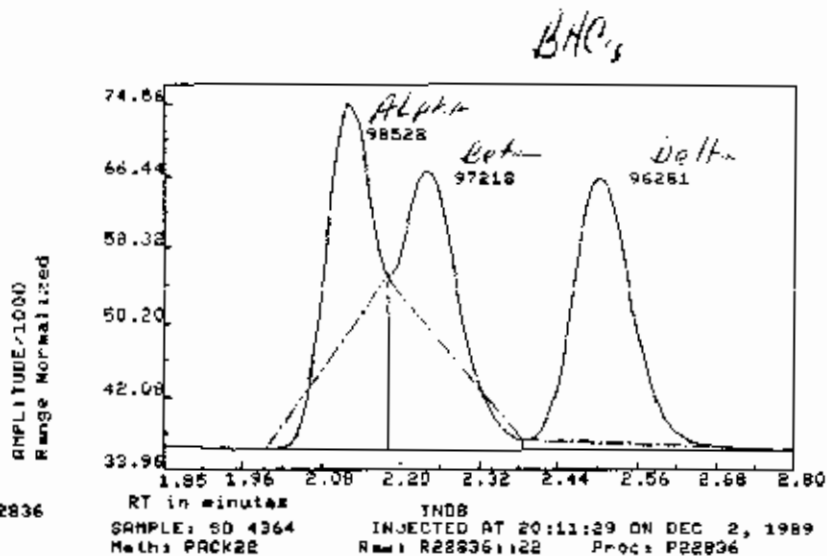
RAW DATA FILE: R22836:122

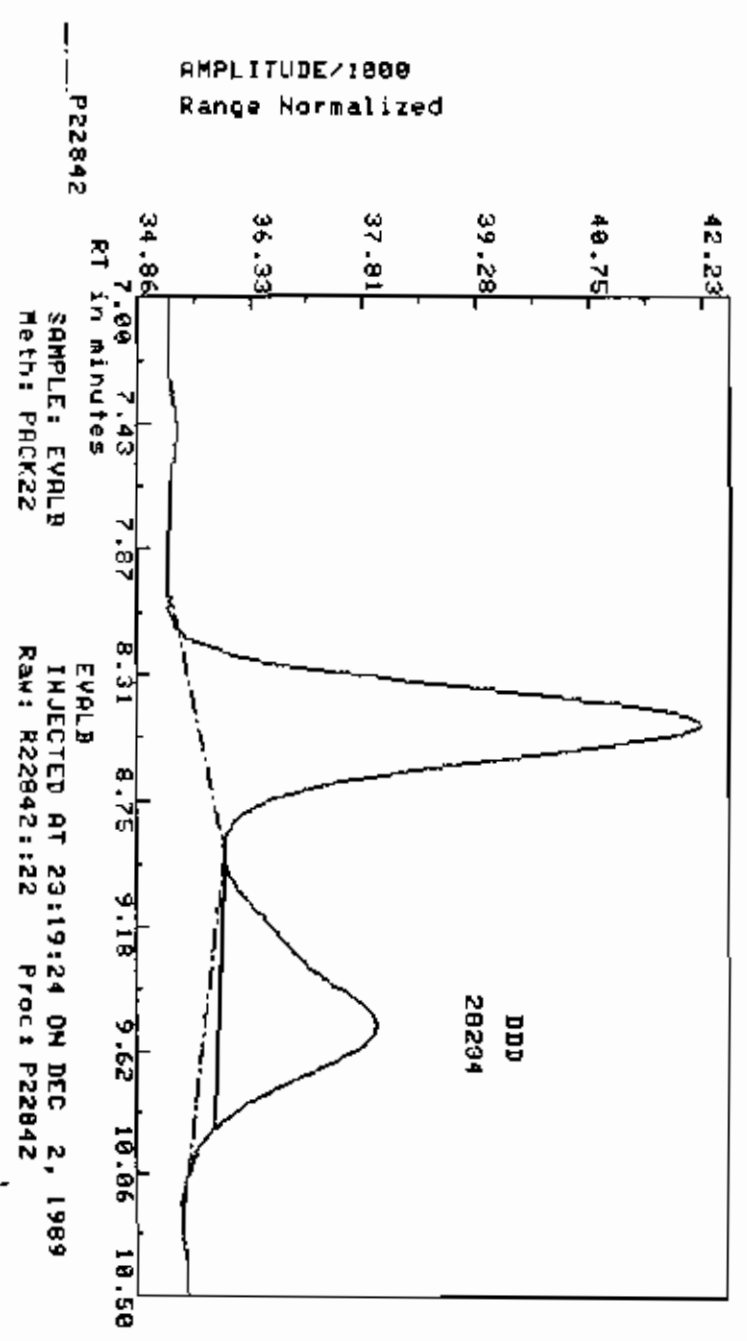
INJECTED AT: 20:11:29 ON DEC 2, 1989

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	2.02	2.19	98528	33.7
2	2.19	2.39	97218	33.3
3	2.39	2.76	96281	33.0

Select softkey





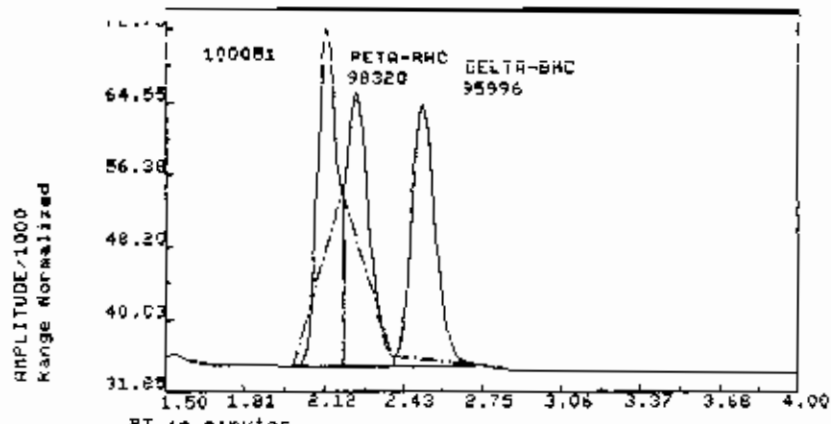
RESULTS OF MANUAL INTEGRATION FROM CPLOT

RAW DATA FILE: R22842:22

INJECTED AT: 23:19:24 ON DEC 2, 1989

RESULTS ARE IN AREA PERCENT

AREA#	TIME1	TIME2	AREA	AREA%
1	8.98	9.89	28284	100.0



P22847

RT in minutes INDB
 SAMPLE: SO 4364 INJECTED AT 11:37:13 ON DEC 4, 1989
 Meth: PAK22 Raw: R22847 Proc: P22847

STANDARD COMPOUND CONCENTRATIONS

STD INDA	CONC(ug/ml)
Gamma BHC	0.010
Heptachlor	0.010
Aldrin	0.010
Gamma Chlordane	0.010
Endosulfan I	0.010
Dieldrin	0.020
Endosulfan II	0.040
pp' DDT	0.050
pp' Methoxychlor	0.10

STD INDB	
Alpha BHC	0.010
Beta BHC	0.020
Delta BHC	0.010
Heptachlor Epoxide	0.010
Alpha Chlordane	0.020
pp' DDE	0.020
Endrin	0.040
pp' DDD	0.040
Endrin Aldehyde	0.040
Endosulfan Sulfate	0.040
Endrin Ketone	0.10

MULTICOMPONENT STANDARDS

AR1560	1015	0.30
	1250	0.30
AR1221		1.0
AR1232		0.70
AR1242		0.40
AR1248		0.40
AR1254		0.30
TOXAPH		1.0

EVALUATION MIX STANDARDS

COMPOUND	EVALA	EVALB	EVALC
Aldrin	0.0020	0.0050	0.010
Endrin	0.0080	0.020	0.040
DDT	0.0125	0.030	0.050
DDE	0.020	0.050	0.10

SEQUENCE NAME - SEQ228

CALIB. STD LOT OV-101

L.U. REF 23

CHANNEL # 2

DATE STARTED

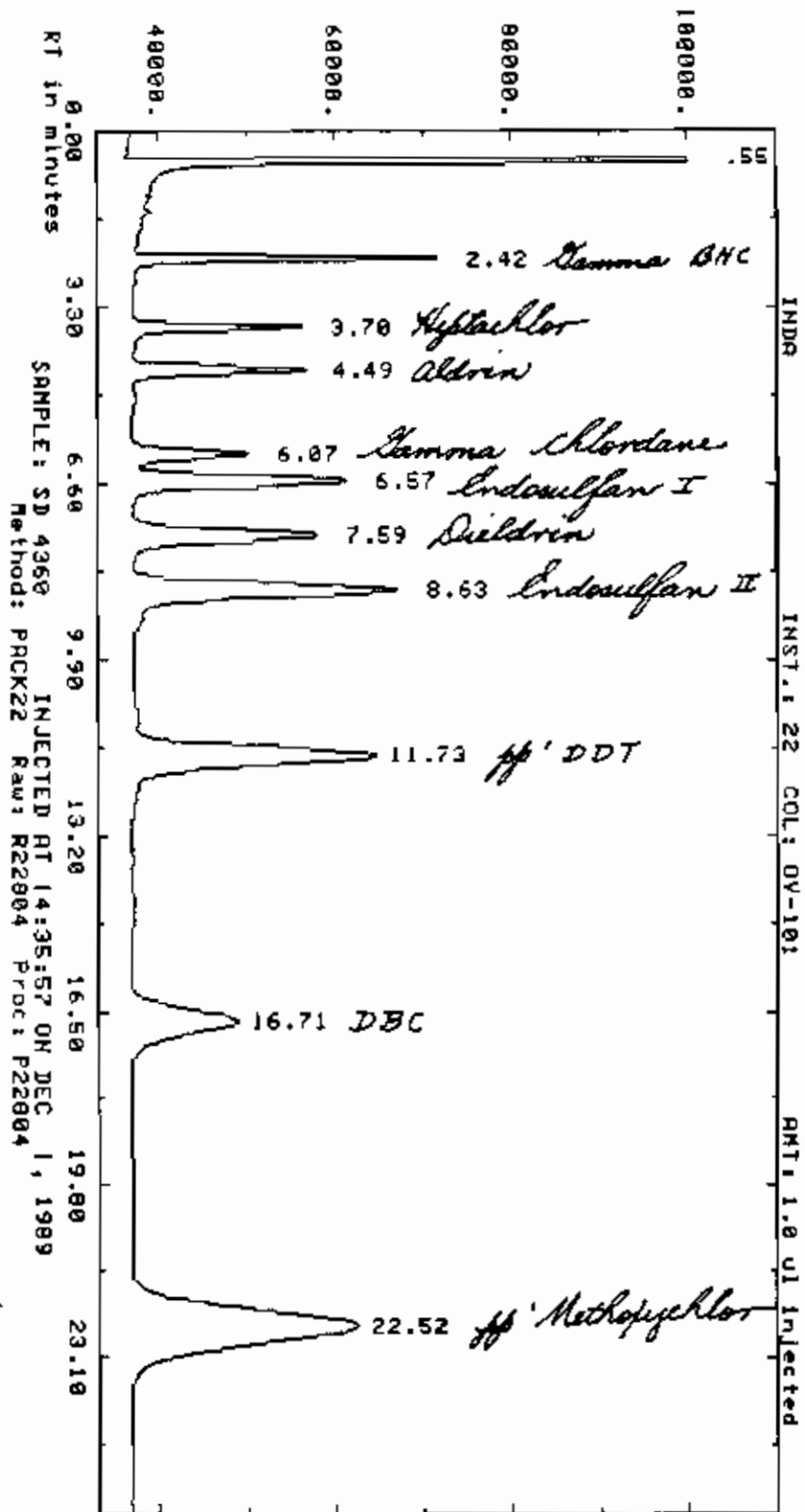
INSTRUMENT # 06

DATE FINISHED

TYPE(S) OF ANALYSIS PEST

SAMPLE NAME	B#	CASE NUMBER	EPA NUMBER	INJECTION TIME
EVALA	01	EVALA		12:34:38 ON DEC 1, 1989
EVALB	02	EVALB		13:01:51 ON DEC 1, 1989
EVALC	03	EVALC		13:29:03 ON DEC 1, 1989
SD 4360	04	INDA		14:35:57 ON DEC 1, 1989
SD 4364	05	INDB		15:03:09 ON DEC 1, 1989
SD TOXA	06	TOXAPH		15:30:21 ON DEC 1, 1989
SD ARMX	07	AR1660		15:57:33 ON DEC 1, 1989
SD 1221	08	AR1221		16:24:46 ON DEC 1, 1989
SD 1232	09	AR1232		16:52:00 ON DEC 1, 1989
SD 1242	10	AR1242		17:19:13 ON DEC 1, 1989
SD 1248	11	AR1248		17:46:27 ON DEC 1, 1989
SD 1254	12	AR1254		18:13:42 ON DEC 1, 1989
PP 304584 BS	13	18518 25	BS	18:40:57 ON DEC 1, 1989
PP 304582 SS	14	18518 25	COLPASW01MS	19:08:12 ON DEC 1, 1989
PP 304583 SS	15	18518 25	COLPASW01MSD	19:35:28 ON DEC 1, 1989
CP 301937 R	16	18410 5	738001-05	21:21:12 ON DEC 1, 1989
PP 305145 B1	17	18244 126	PBLK19	9:06:34 ON DEC 2, 1989
EVALB	18	EVALB		9:44:17 ON DEC 2, 1989
PP 305146 B2	19	18244 126	PBLK20	10:11:30 ON DEC 2, 1989
PP 304989	20	18244 126	SOIL-FB-2	10:38:43 ON DEC 2, 1989
PP ALU.BK103	21			11:05:56 ON DEC 2, 1989
PP 304834 B2	22	TEST	PBLK14	12:27:00 ON DEC 2, 1989
PP 304833 B1	23	TEST	PBLK13	12:54:14 ON DEC 2, 1989
SD 4360	24	INDA		13:21:29 ON DEC 2, 1989
PP 304487	25	TEST	T-WHSE 11	13:48:44 ON DEC 2, 1989
PP ALU.BK#98	26			14:15:59 ON DEC 2, 1989
PP TEST54 BS	27			14:43:14 ON DEC 2, 1989
PP TEST53 BS	28			15:10:31 ON DEC 2, 1989
PP TEST52 BS	29			15:37:47 ON DEC 2, 1989
EVALB	30	EVALB		16:05:04 ON DEC 2, 1989
PP TEST51 BS	31			16:32:17 ON DEC 2, 1989
PS TEST50 BS	32			16:59:29 ON DEC 2, 1989
PP TEST57 B2	33			17:26:41 ON DEC 2, 1989
PP TEST56 B1	34			17:53:54 ON DEC 2, 1989

AMPLITUDE x.25 uV-seconds (Enlarged x 3.37)

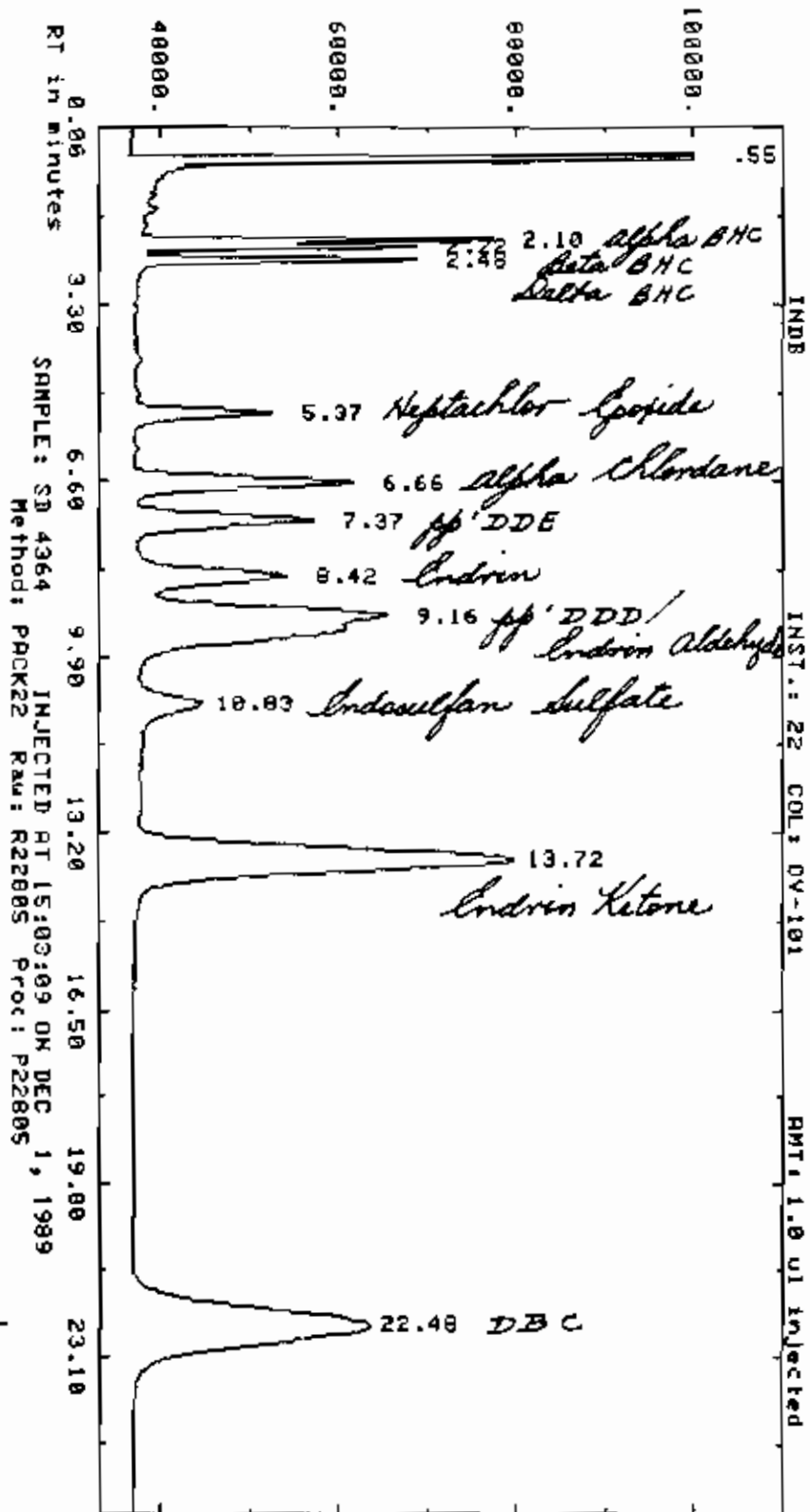


Report: 1766.00 Channel: 22 INDA
 Sample: SD 4360 Injected at 14:35:57 ON DEC 1, 1989
 ZERO Method: PACK22 Seq: SEQ228 Subsq/Samp: 1/ 4 Rtl: 4
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.008 minutes

RT	ITH	Factor	Area	AREA %	Name
.55	0.00	.10000E+01	404661.	15.937	BS
2.42	0.00	.10000E+01	108495.	4.271	BB
3.70	0.00	.10000E+01	83263.	3.279	BB
4.49	0.00	.10000E+01	98495.	3.879	BB
6.07	0.00	.10000E+01	79039.	3.113	BB
6.57	0.00	.10000E+01	166198.	6.545	BB
7.59	0.00	.10000E+01	170753.	6.725	BB
8.63	0.00	.10000E+01	296587.	11.681	BB
11.73	0.00	.10000E+01	326030.	12.840	BB
16.71	0.00	.10000E+01	200899.	7.912	BB
22.52	0.00	.10000E+01	604768.	23.818	BB

Total Area = 2539148. Total AREA % = 604768.000
 Processed data file: P22S04 Raw data file: R22804

AMPLITUDE x.25 uV-seconds (Enlarged x 5.76)



Report: 1767.00 Channel: 22 INDB

Sample: SD 4364 Injected at 15:03:09 ON DEC 1, 1989

ZERO Method: PACK22 Seq: SEQ228 Subsq/Samp: 1/ 5 Rtl: 5

Sl-width MV/Min Delay Min-Ar Bunch
.500 .300 0.00 5000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW XRTW %Dil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.008 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.55	0.00	.10000E+01	651799.	23.175	BS
2.10	0.00	.10000E+01	51566.	1.833	BB
2.22	0.00	.10000E+01	35200.	1.252	BB
2.48	0.00	.10000E+01	88286.	3.139	BB
5.37	0.00	.10000E+01	90696.	3.225	BB
6.66	0.00	.10000E+01	178677.	6.353	BB
7.37	0.00	.10000E+01	155460.	5.527	BB
8.42	0.00	.10000E+01	133325.	4.740	BB
9.16	0.00	.10000E+01	78749.	2.800	BB
10.83	0.00	.10000E+01	84211.	2.994	BB
13.72	0.00	.10000E+01	633796.	22.535	BB
22.48	0.00	.10000E+01	630718.	22.426	BF

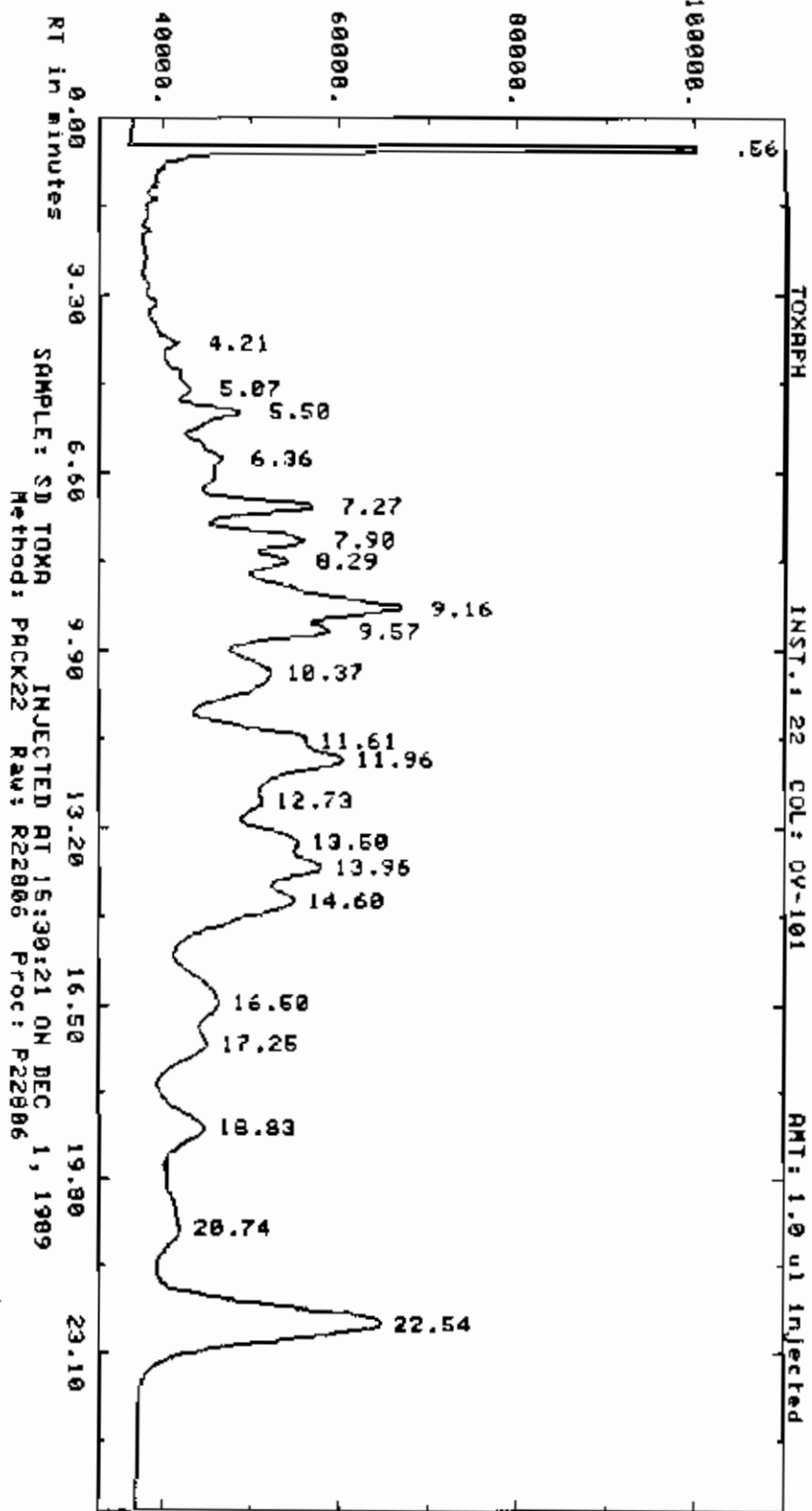
Total Area = 2812483.

Total AREA % = 630718.000

Processed data file: P22805

Raw data file: R22805

AMPLITUDE x.25 uV-seconds (Enlarged x 2.76)

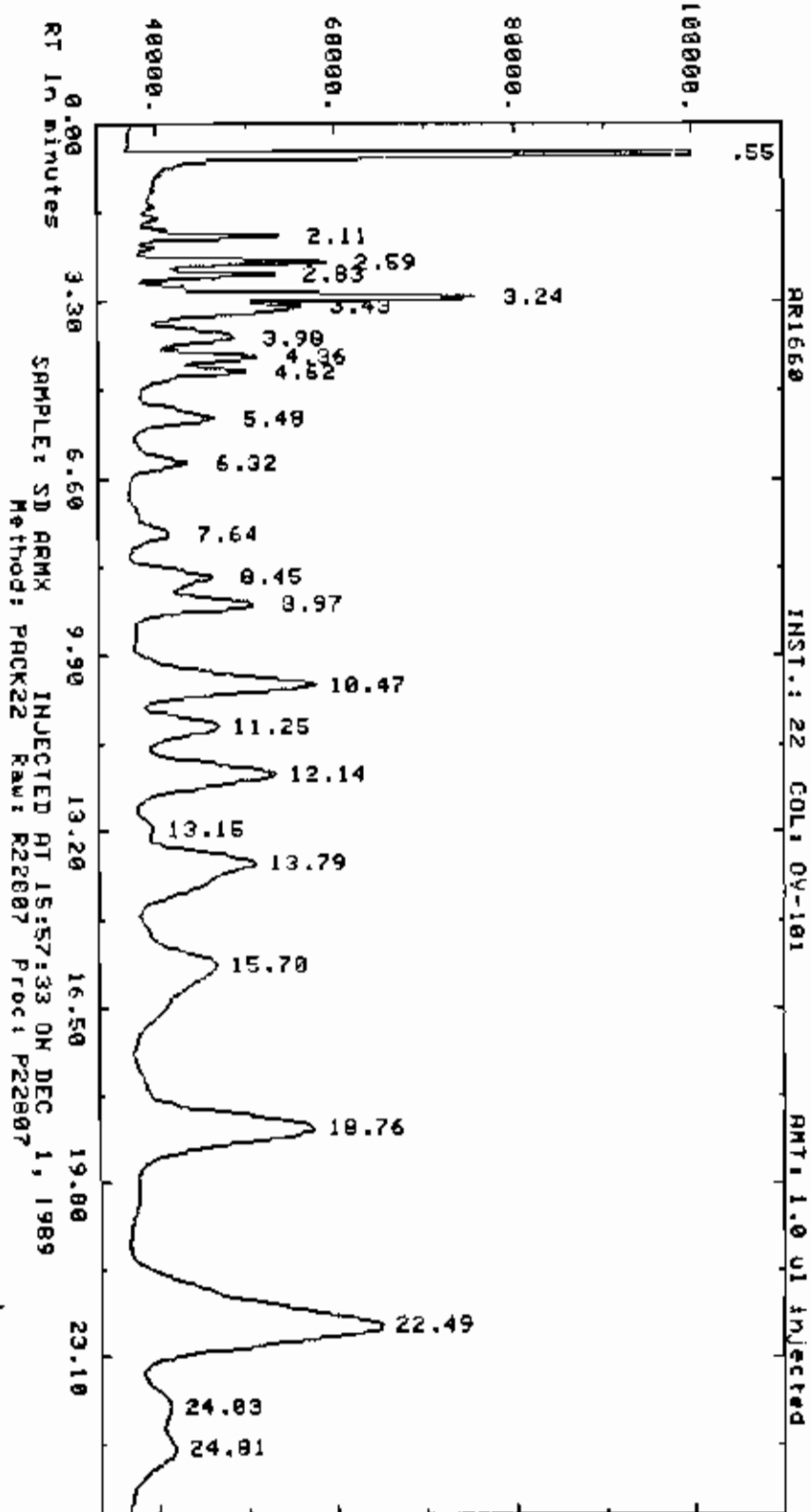


Report: 1768.00 Channel: 22 TOXAPH
 Sample: SD TOXA Injected at 15:30:21 ON DEC 1, 1989
 ZERO Method: PACK22 Seq: SEQ228 Subsq/Samp: 1/ 6 Btl: 6
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DuT ID-Lvl Ref-RTW XRTW XDil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.008 minutes

RT	ITM	Factor	Area	AREA X	Name
4.56	0.00	.10000E+01	418906.	20.956	BS
4.21	0.00	.10000E+01	12256.	.613	BR
5.07	0.00	.10000E+01	6113.	.306	BB
5.50	0.00	.10000E+01	55530.	2.778	BB
6.36	0.00	.10000E+01	19510.	.976	BB
7.27	0.00	.10000E+01	95971.	4.801	BB
7.90	0.00	.10000E+01	55567.	2.780	BB
8.29	0.00	.10000E+01	22103.	1.106	BB
9.16	0.00	.10000E+01	147083.	7.358	BB
9.57	0.00	.10000E+01	29936.	1.498	BB
10.37	0.00	.10000E+01	125858.	6.296	BB
11.61	0.00	.10000E+01	8172.	.409	BB
11.96	0.00	.10000E+01	57498.	2.876	BB
12.73	0.00	.10000E+01	9082.	.454	BB
13.50	0.00	.10000E+01	19353.	.968	BB
13.96	0.00	.10000E+01	39198.	1.961	BB
14.60	0.00	.10000E+01	58344.	2.919	BB
16.50	0.00	.10000E+01	69948.	3.499	BB
17.25	0.00	.10000E+01	29502.	1.476	BB
18.83	0.00	.10000E+01	91344.	4.569	BB
20.74	0.00	.10000E+01	59373.	2.970	BB
22.54	0.00	.10000E+01	568365.	28.432	BB

Total Area = 1999013. Total AREA X = 568365.000
 Processed data file: P22806 Raw data file: R22806

AMPLITUDE x.25 uV-seconds (Enlarged x 3.48)



Report: 1769.00 Channel: 22

AR1660

Sample: 9D ARMX

Injected at 15:57:33 ON DEC 1, 1989

ZERO Method: PACK22

Seq: 5EQ228

Subsq/Samp: 1/ 7

Stl: 7

Sl-width MU/Min Delay Min-Ar Bunch
.500 .300 0.00 5000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.017 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.55	0.00	.10000E+01	456422.	B5	13.399
1.11	0.00	.10000E+01	38542.	BB	1.131
1.59	0.00	.10000E+01	62430.	BB	1.833
1.83	0.00	.10000E+01	39500.	BB	1.160
2.24	0.00	.10000E+01	106061.	BB	3.114
3.43	0.00	.10000E+01	42529.	BB	1.249
3.98	0.00	.10000E+01	67310.	BB	1.976
4.36	0.00	.10000E+01	42929.	BB	1.260
4.62	0.00	.10000E+01	27150.	BB	.797
5.48	0.00	.10000E+01	75980.	BB	2.231
6.32	0.00	.10000E+01	50424.	BB	1.480
7.64	0.00	.10000E+01	32986.	BB	.968
8.45	0.00	.10000E+01	48124.	BB	1.413
8.97	0.00	.10000E+01	83736.	BB	2.458
10.47	0.00	.10000E+01	239026.	BB	7.017
11.25	0.00	.10000E+01	85351.	BB	2.506
12.14	0.00	.10000E+01	194942.	BB	5.723
13.15	0.00	.10000E+01	5813.	BB	.171
14.79	0.00	.10000E+01	233741.	BB	6.862
15.70	0.00	.10000E+01	257766.	BB	7.567
18.76	0.00	.10000E+01	416132.	BB	12.217
22.49	0.00	.10000E+01	740933.	BB	21.752
24.03	0.00	.10000E+01	23962.	BB	.703
24.81	0.00	.10000E+01	34469.	BF	1.012

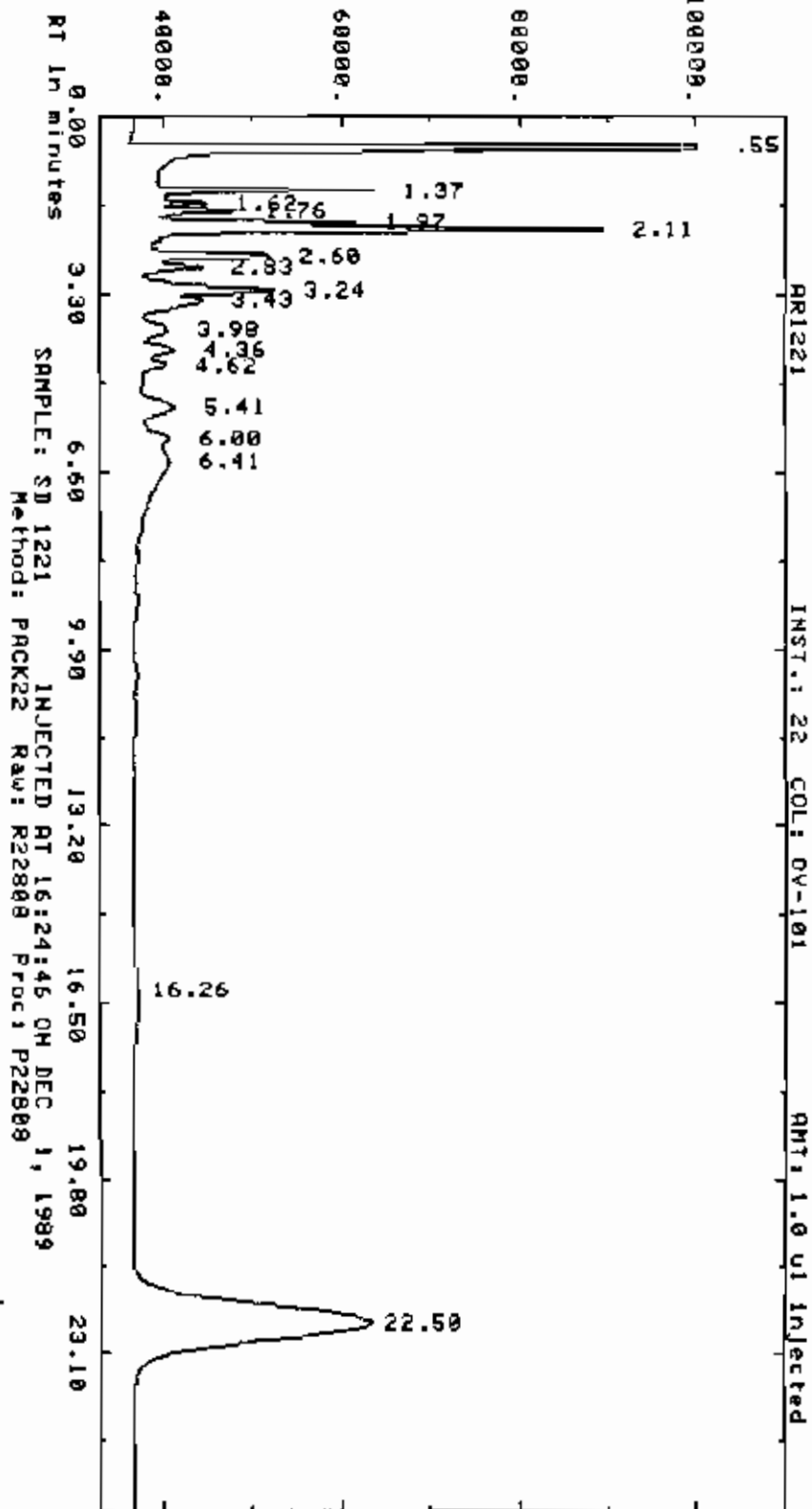
Total Area = 3406268.

Total AREA % = 34465.750

Processed data file: P22807

Raw data file: R22807

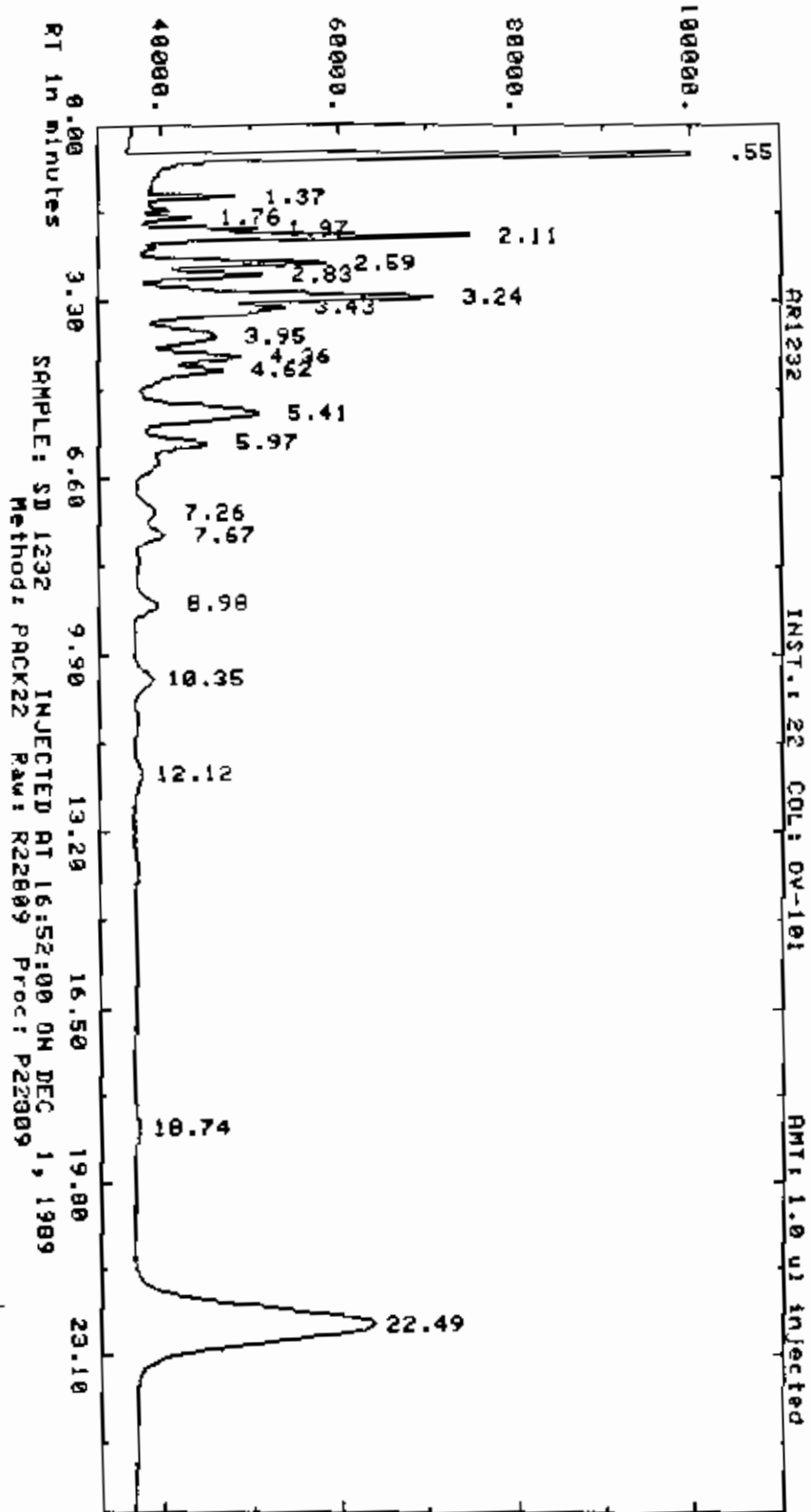
AMPLITUDE x.25 uV-seconds (Enlarged x 2.38)



Report: 1770.00 Channel: 22 AR1221
 Sample: SD 1221 Injected at 16:24:46 ON DEC 1, 1989
 ZERO Method: PACK22 Seq: SEQ228 Subsq/Samp: 1/ 8 Rtl: 8
 Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 S000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.017 minutes

RT	ITH	Factor	Area	AREA X	Name
.55	0.00	.10000E+01	225004.	BB	17.522
1.37	0.00	.10000E+01	44465.	BB	3.463
1.62	0.00	.10000E+01	5341.	BB	.650
1.78	0.00	.10000E+01	17697.	BB	1.378
1.97	0.00	.10000E+01	17637.	BB	1.373
2.11	0.00	.10000E+01	102051.	BB	7.947
2.60	0.00	.10000E+01	43699.	BB	3.403
2.83	0.00	.10000E+01	15313.	BB	1.192
3.24	0.00	.10000E+01	43221.	BB	3.366
3.43	0.00	.10000E+01	14403.	BB	1.122
3.98	0.00	.10000E+01	19151.	BB	1.491
4.36	0.00	.10000E+01	13432.	BB	1.046
4.62	0.00	.10000E+01	6588.	BB	.513
5.41	0.00	.10000E+01	30280.	BB	2.358
6.00	0.00	.10000E+01	6056.	BB	.472
6.41	0.00	.10000E+01	21117.	BB	1.644
16.26	0.00	.10000E+01	20443.	BB	1.592
22.50	0.00	.10000E+01	635237.	BB	49.468
Total Area =		1284134.	Total AREA X =		635237.000
Processed data file: P22808			Raw data file: R22808		

AMPLITUDE x.25 uV-seconds (Enlarged x 2.37)



Report: 1771.00 Channel: 22 AR1232

Sample: SD 1232 Injected at 16:52:00 ON DEC 1, 1989

ZERO Method: PACK22 Seq: SEQ228 Subsq/Samp: 1/9 Btl: 9

Sl-width MU/Min Delay Min-Ap Bunch
.500 .300 0.00 5000 Auto

Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-f Iso
NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.000 minutes

Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.55	0.00	.10000E+01	218532.	BS	13.838
1.37	0.00	.10000E+01	17515.	BB	1.109
1.76	0.00	.10000E+01	11020.	BB	.698
1.97	0.00	.10000E+01	8962.	BB	.567
2.11	0.00	.10000E+01	82720.	BB	5.238
2.59	0.00	.10000E+01	62983.	BB	3.988
2.83	0.00	.10000E+01	34663.	BB	2.195
3.24	0.00	.10000E+01	93703.	BB	5.934
3.43	0.00	.10000E+01	38377.	BB	2.430
3.95	0.00	.10000E+01	54029.	BB	3.421
4.36	0.00	.10000E+01	38052.	BB	2.410
4.62	0.00	.10000E+01	24199.	BB	1.532
5.41	0.00	.10000E+01	115284.	BB	7.300
5.97	0.00	.10000E+01	36909.	BB	2.337
7.26	0.00	.10000E+01	8528.	BB	.540
7.67	0.00	.10000E+01	15024.	BB	.951
8.98	0.00	.10000E+01	24131.	BB	1.528
10.35	0.00	.10000E+01	23588.	BB	1.494
12.12	0.00	.10000E+01	10313.	BB	.653
18.74	0.00	.10000E+01	8503.	BB	.538
22.49	0.00	.10000E+01	652154.	BF	41.297

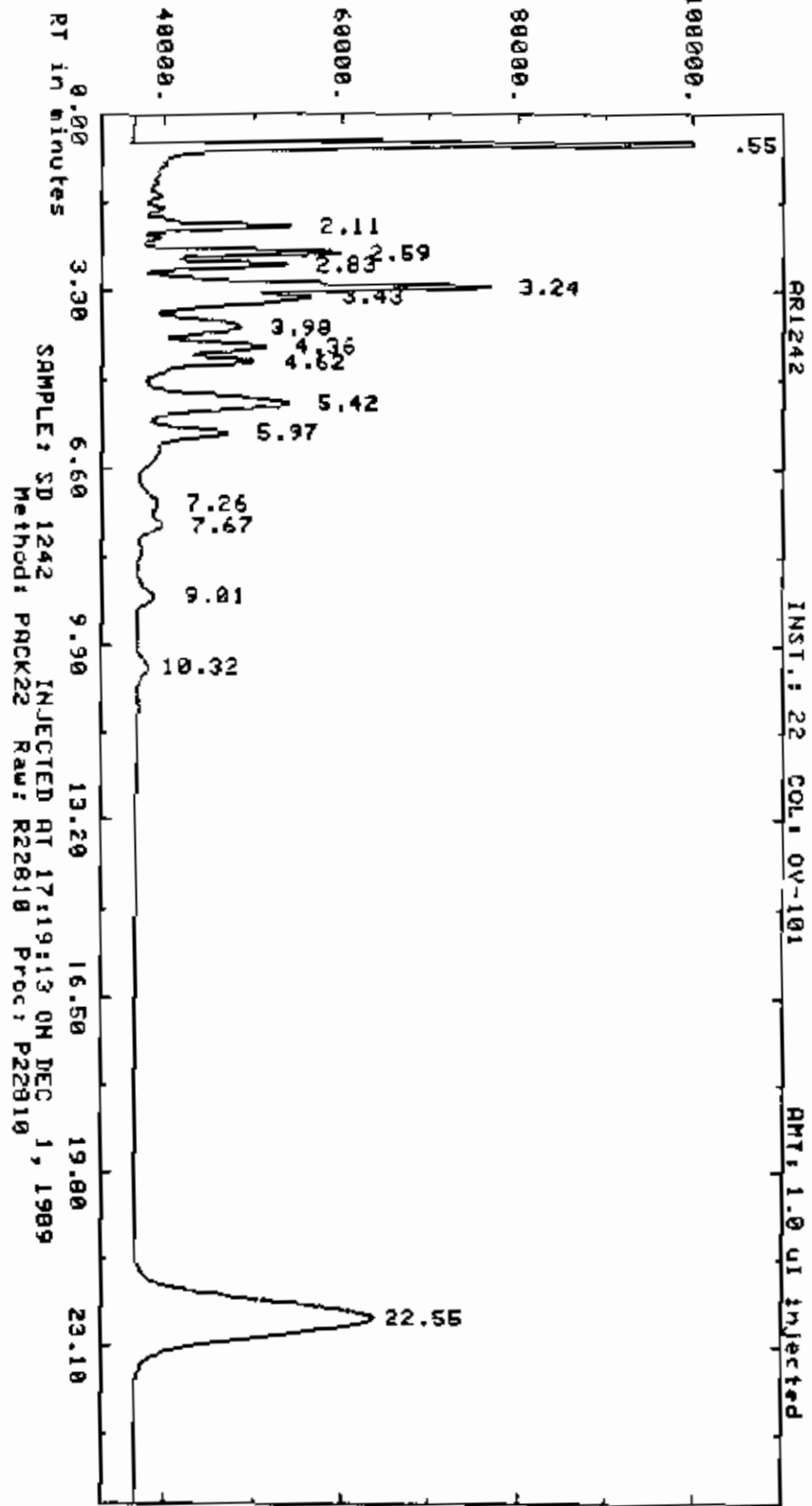
Total Area = 1579188.

Total AREA % = 652154.000

Processed data file: P22809

Raw data file: R22809

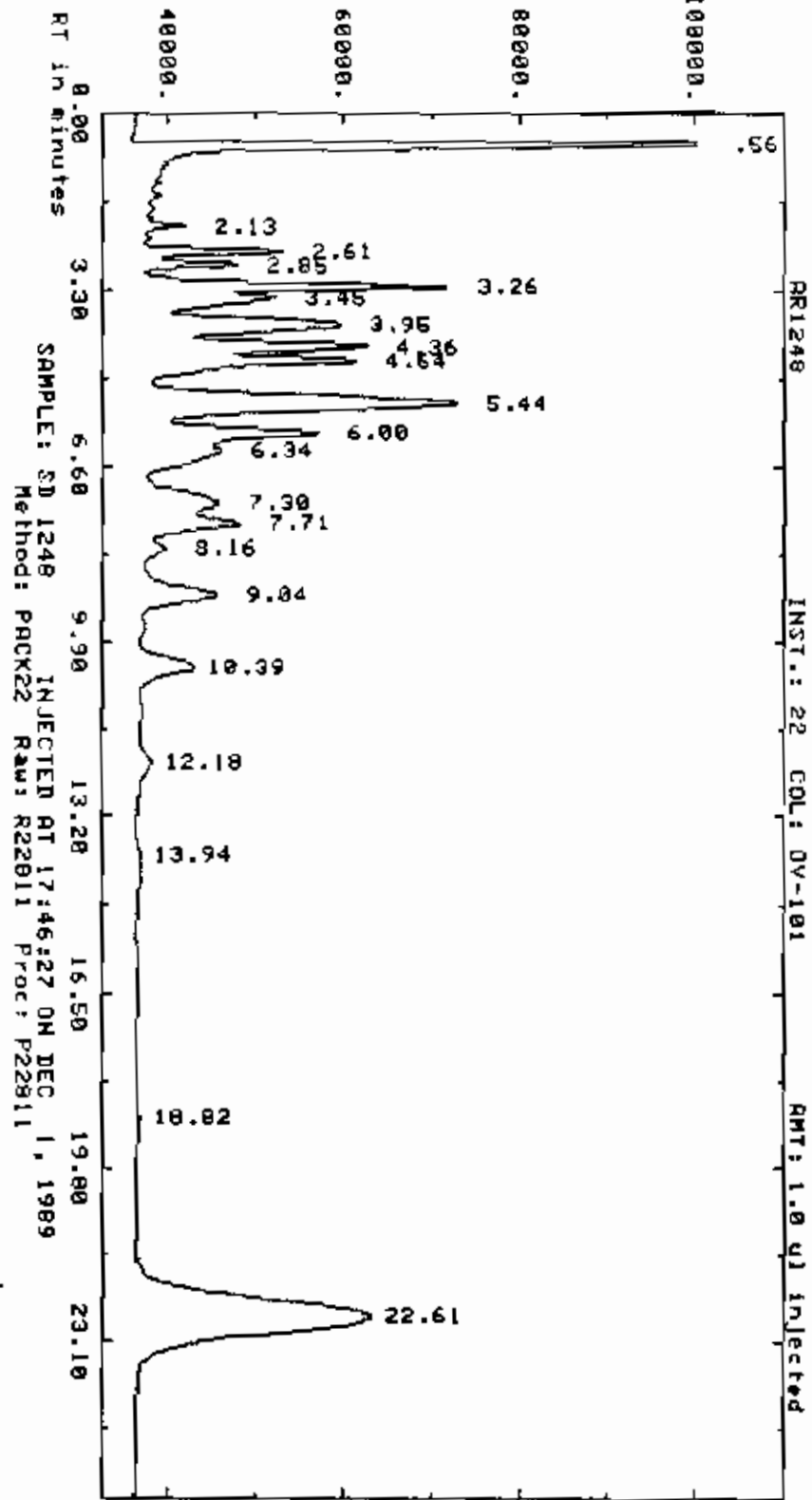
AMPLITUDE x.25 uV-seconds (Enlarged x 1.96)



Report: 1772.00 Channel: 22 AR1242
 Sample: SD 1242 Injected at 17:19:13 ON DEC 1, 1989
 ZERO Method: PACK22 Seq: SEQ22B Subsq/Samp: 1/10 Br1: 10
 Sl-Width HV/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTM %RTW %Dil-f Iso
 NO 0.00 0 30 5.0 100.00 NO
 Actual run time: 26.017 minutes

RT	ITH	Factor	Area	AREA X	Name
2.55	0.00	.10000E+01	306858.	BB	18.741
2.11	0.00	.10000E+01	40740.	BB	2.488
2.59	0.00	.10000E+01	65108.	BB	3.976
2.83	0.00	.10000E+01	41307.	BB	2.523
3.24	0.00	.10000E+01	110027.	BB	6.720
3.43	0.00	.10000E+01	43349.	BB	2.648
3.95	0.00	.10000E+01	67915.	BB	4.148
4.36	0.00	.10000E+01	44906.	BB	2.743
4.62	0.00	.10000E+01	32830.	BB	2.005
5.42	0.00	.10000E+01	139780.	BB	8.537
5.97	0.00	.10000E+01	49043.	BB	2.995
7.26	0.00	.10000E+01	8356.	BB	.510
7.67	0.00	.10000E+01	11301.	BB	.690
9.01	0.00	.10000E+01	19037.	BB	1.163
10.32	0.00	.10000E+01	14759.	BB	.901
22.55	0.00	.10000E+01	642041.	BB	39.212
Total Area =			1637359.	Total AREA X = 642041.000	
Processed data file: P22810			Raw data file: R22810		

AMPLITUDE x.25 uV-seconds (Enlarged x 3.17)



Report: 1773.00 Channel: 22 AR1248
 Sample: 5D 1248 Injected at 17:46:27 ON DEC 1, 1989
 ZERO Method: PACK22 Seq: SEQ228 Subsq/Samp: 1/11 Btl: 11

Sl-width MV/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-f Iso
 NO 0.00 0 .30 5.0 100.00 NO

Actual run time: 26.017 minutes

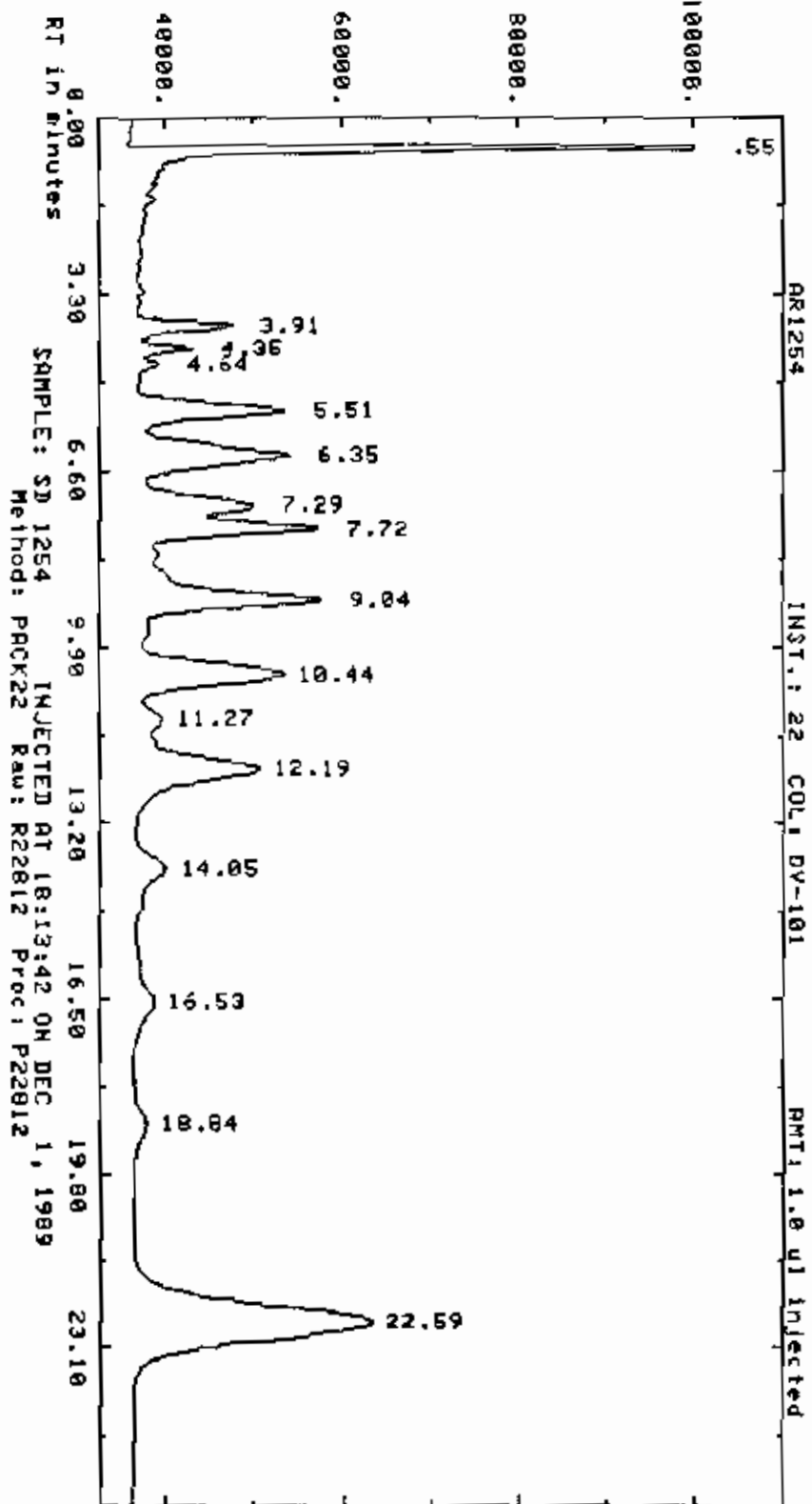
Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.56	0.00	.10000E+01	304883.	BS	14.189
2.13	0.00	.10000E+01	10913.	BB	.508
2.61	0.00	.10000E+01	47170.	BB	2.195
2.85	0.00	.10000E+01	28439.	BB	1.324
3.26	0.00	.10000E+01	96094.	BB	4.472
3.45	0.00	.10000E+01	34279.	BB	1.595
3.95	0.00	.10000E+01	141759.	BB	6.597
4.36	0.00	.10000E+01	81565.	BB	3.796
4.64	0.00	.10000E+01	75799.	BB	3.528
5.44	0.00	.10000E+01	307752.	BB	14.322
6.00	0.00	.10000E+01	84203.	BB	3.919
6.34	0.00	.10000E+01	19114.	BB	.890
7.30	0.00	.10000E+01	32268.	BB	1.502
7.71	0.00	.10000E+01	45108.	BB	2.099
8.16	0.00	.10000E+01	10143.	BB	.472
9.04	0.00	.10000E+01	83809.	BB	3.900
10.39	0.00	.10000E+01	71621.	BB	3.333
12.18	0.00	.10000E+01	18458.	BB	.859
13.94	0.00	.10000E+01	6110.	BB	.284
18.82	0.00	.10000E+01	6450.	BB	.300
22.61	0.00	.10000E+01	642833.	BF	29.916

Total Area = 2148771. Total AREA % = 642833.000

Processed data file: P22811 Raw data file: R22811

AMPLITUDE x.25 uV-seconds (Enlarged x 2.16)



Report: 1774.00 Channel: 22 AR1254
 Sample: SD 1254 Injected at 18:13:42 ON DEC 1, 1989
 ZERO Method: PACK22 Seq: SEQ22B Subsq/Samp: 1/12 Br1: 12
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 5000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW XRTW XDil-f Iso
 ND 0.00 0 0.30 5.0 100.00 NO
 Actual run time: 26.017 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.55	0.00	.10000E+01	205177.	BS	9.219
3.91	0.00	.10000E+01	55962.	BB	2.515
4.35	0.00	.10000E+01	24999.	BB	1.123
4.64	0.00	.10000E+01	5390.	BB	.242
5.51	0.00	.10000E+01	147347.	BB	6.621
6.35	0.00	.10000E+01	186870.	BB	8.397
7.29	0.00	.10000E+01	54593.	BB	2.453
7.72	0.00	.10000E+01	108722.	BB	4.885
9.04	0.00	.10000E+01	207865.	BB	9.340
10.44	0.00	.10000E+01	210401.	BB	9.454
11.27	0.00	.10000E+01	14750.	BB	.663
12.19	0.00	.10000E+01	187103.	BB	8.407
14.05	0.00	.10000E+01	66612.	BB	2.993
16.53	0.00	.10000E+01	56531.	BB	2.540
18.84	0.00	.10000E+01	29038.	BB	1.305
22.59	0.00	.10000E+01	664141.	BF	29.842

Total Area = 2225505. Total AREA % = 664141.000
 Processed data file: P22812 Raw data file: R22812

D. RAW QC DATA

- (1) Blank Data - In chronological order NOTE: This order is different from that used for samples
 - (a) Tabulated results (Form I PEST)
 - (b) Chromatogram (a) and data system printout (a) (GC) for each GC column and instrument used for analysis
- (2) Matrix Spike Data
 - (a) Tabulated results (Form I PEST) of nonspike TCL compounds
 - (b) Chromatogram (a) and data system printout (a) (GC)
- (3) Matrix Spike Duplicate Data
 - (a) Tabulated results (Form I PEST) of nonspike TCL compounds
 - (b) Chromatogram (a) and data system printout (a) (GC)

- (1) Blank Data - in chronological order NOTE: This order is different from that used for samples
 - (a) Tabulated results (Form I PEST)
 - (b) Chromatogram (s) and data system printout (s) (GC) for each GC column and instrument used for analysis

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK03

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5

Matrix: (soil/water) WATER Lab Sample ID: 301989

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

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ dec. _____ Date Extracted: 11/15/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/16/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee # 819 on Mon Nov 20, 1989 2:55 pm using EPACA 1.51

CompuChem Number:301989 Case#:18410 SDG #:5 EPA#:PBLK03
Matrix = Water Level = L Compound List = 175

Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

Sample Area = Standard Conc * Multiplication Factor * Split * Final Volume * Dry Weight Factor
Concentration = -----
Standard Area * Volume or Weight of Sample

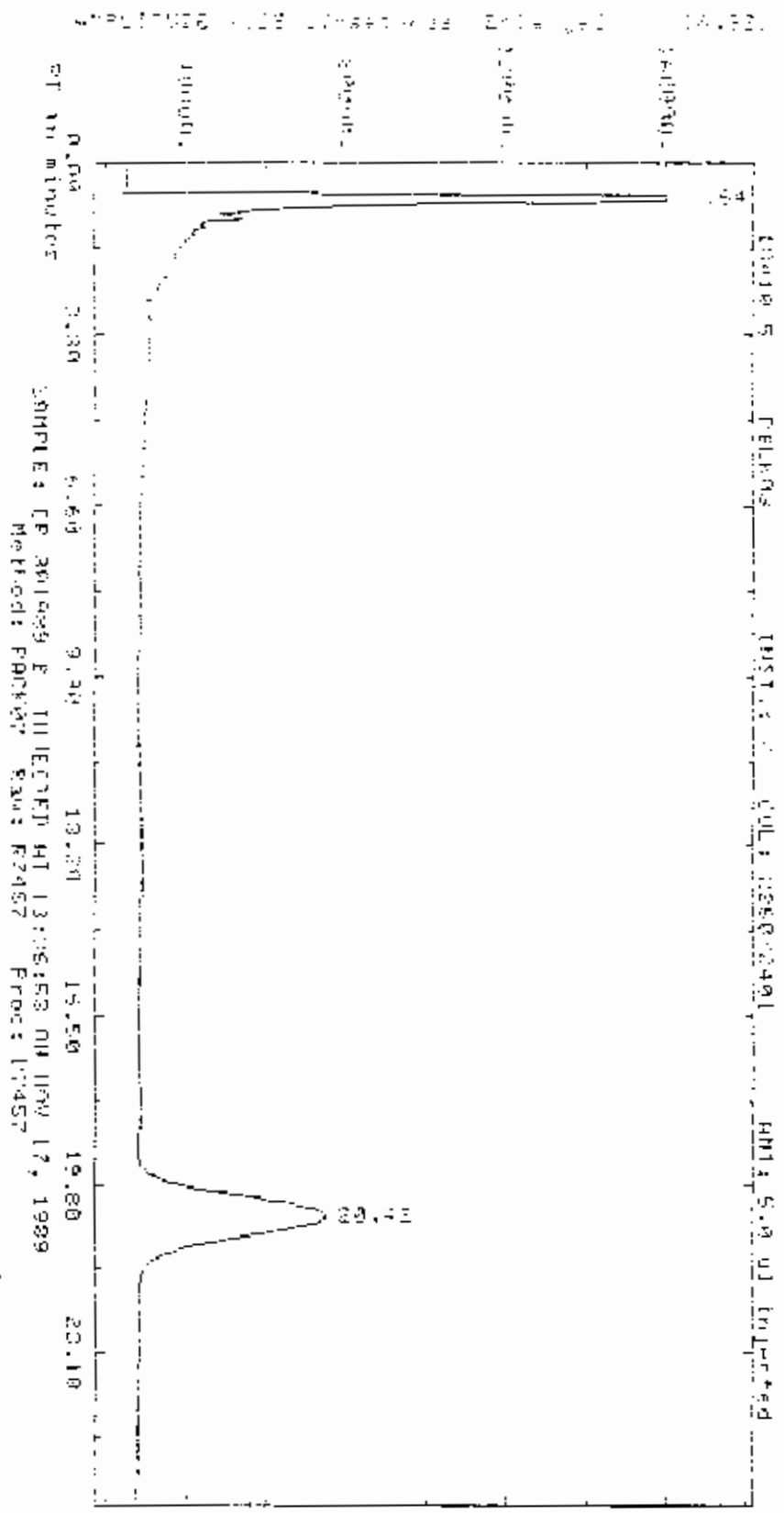
File : P3359 Column : OV-101 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Standard RT window - 23.45 - 24.41 Sample RT - 23.85 Primary/Reported QADS
DBC _____ Standard Area - 438416 Sample Area - 420755
Standard Conc(ug/ml) - 0.100 Sample Conc(ug/l) - 0.96 95.97 % Recovery
Sample ng on col - 0.095972

File : P7457 Column : 2250/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Standard RT window - 20.22 - 21.04 Sample RT - 20.42
DBC _____ Standard Area - 1487512 Sample Area - 1304836
Standard Conc(ug/ml) - 0.100 Sample Conc(ug/l) - 0.88 87.72 % Recovery
Sample ng on col - 0.087719

Analyst Comments:



SAMPLES CP 301499 F III (E) HI 13:06:58 ON JAN 17, 1989
 Method: FROTHOF Scan: R2457 Proc: 11457

LAB INSTRUCTIONS:
PESTICIDES
WORKSHEET
RECEIPT DATE

CASE # 184110-3 CEE 1210 189
BAS:
COMPUCHEN # 301989

DATE DUE: 12/06/89

Sample Prep Code--- -55
Instrument Code-----144
Compound List-----499
Surrogate Std-----395

LOW LEVEL WATER, EPA 604 2/88

SDG: 05 EPA#: PBLK03

Blank Associated with Case _____
Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 100 ml final volume of extract 11 ml

portion of Vol. in pesticide _____

ANALYSIS INFORMATION: COMMENTS Send to QA

Inst. # / Date Sequence Dil. Fact. QA Approved

11/14 3 33 1

ISDL

Need QC/MS Confirmation

11/17 7 74 1

Analyst 819/1201 Date 11 20 89

SURROGATE INFORMATION DIBUTYL CHLORIDE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 96 X Recovery
AREA IN STD

X Recovery X 0.1 ug/ml = _____ ug/ml

- +EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE
- JA = reinject acceptable FROM REPEAT REQUEST FORM IN BOX.
- QA = repeat confirmed original results
- DK = original data acceptable (not for REPEATS) FINAL STATUS CODE = P.C.
- NS = insufficient sample for repeat
- DL = DBC low (<20% Recovery)
- DA = Dilution Acceptable
- BF = Blank Requires Florisil
- CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

QANA QAN3 QA notice included.

SAMPLE DISPOSITION Code

Complete.....

Requires Re-extraction.. -55

Requires cleanup..... 901

Audited By _____ Date _____

ASSIGNED TO Archie Williams
 EMPLOYEE ID # 1079

COMPUCHEM LABORATORIES
 EXTRACTION WORKSHEET
 EPR LOW LEVEL PESTICIDE WATER

DATE EXTRACTED/POSTED 11-15-89

CRSE # 184105

-055

QUEUE # 10 (2-88) Revs

SAMPLE NUMBER	EPR ID #	QC TYPE	SAMPLE DRIG #	SAMPLE VOLUME	ILLUMINA START VOL.	FINAL VOL.	COMMENTS
1	301926	SS	301917	500	1.0	5.0	Use 500ul sample vol. for SS only. Add 0.5ul surr.
2	301927	SS	301917	500	1.0	5.0	Add 50ul spike, conc. to 5.0ul final volume.
3	301928	BS		1000	1.0	10.0	718/441 USE 301909, 917, 918, 937, 939 for QC
4	301909			1000	1.0	10.0	
5	301910			1000	1.0	10.0	
6	301917			1000	1.0	10.0	
7	301918			1000	1.0	10.0	
8	301922			1000	1.0	10.0	
9	301937			1000	1.0	10.0	
10	301938			1000	1.0	10.0	
11	301939			1000	1.0	10.0	
12							
13	BLANK BLK			1.0	1.0	1.0	LOT# 30591 AMOUNT 1.0ml # 50
14							
15							
16							
17							
18							
19							
20	301989	BLK 03	BLANK	1000	1.0	10.0	
21	301990	BLK 04	BLANK	1000	1.0	10.0	
22							

SURR 395 1 ML 30192
 SPIKE 4016 100 UL 30313

CHECKED AND VERIFIED 11/15/89
 (GC LAB)

RECD 14 NOV 89
 AUTO. COUNTER 718/441
 MANUAL COUNTER 735/505

ILLUMINA BATCH # 11-3-89



COMPOUND LIST NO. - 499

COMPUCHEM # 301989 DATE IDENTIFIER PESTICIDES (LOW LEVEL WATER) EPA SOW 2/89

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ /5 = 10 CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----		0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I-----		0.050
12.	0712	ENDOSULFAN II-----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----	NDL	0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK25

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 302880
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: / /
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/17/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee # 819 on Wed Nov 29, 1989 12:34 pm using EPACA 1.51

CompuChem Number:302880 Case#:18410 SDG #:5 EPA#:PBLK25
 Matrix = Water Level = L Compound List = 175

Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} * \text{Standard Conc} * \text{Multiplication Factor} * \text{Split} * \text{Final Volume} * \text{Dry Weight Factor}}{\text{Standard Area} * \text{Volume or Weight of Sample}}$

File : P1340 Column : 2250/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Aldrin	Standard RT window - 4.24 - 4.41	Sample RT - 4.25
	Standard Area - 104051	Sample Area - 6227
	Standard Conc(ug/ml) - 0.010	Sample Conc(ug/l) - 0.01 (BL)
		Sample ng on col - 0.000599

DBC	Standard RT window - 21.03 - 21.89	Sample RT - 21.61	Primary/Reported QADS
	Standard Area - 620526	Sample Area - 607999	
	Standard Conc(ug/ml) - 0.100	Sample Conc(ug/l) - 0.98	97.98 % Recovery
		Sample ng on col - 0.097981	

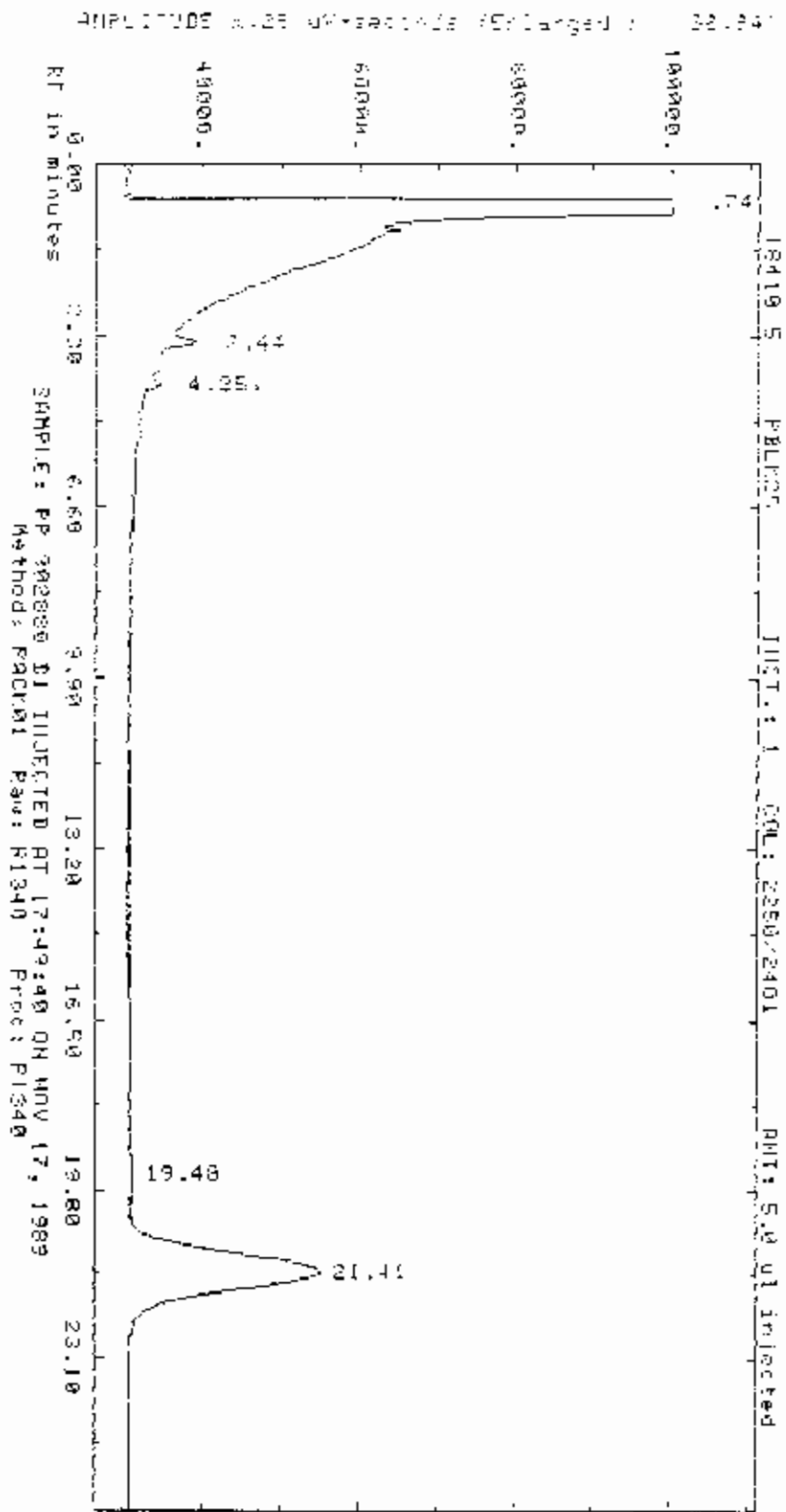
File : P12621 Column : 2250/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

DBC	Standard RT window - 19.37 - 20.37	Sample RT - 20.02	
	Standard Area - 35004	Sample Area - 66620	
	Standard Conc(ug/ml) - 0.100	Sample Conc(ug/l) - 1.90	190.32 % Recovery
		Sample ng on col - 0.190320	

File : P22715 Column : 09-101 Multiplication Factor : 1.0 Detection Level Factor : 1.00

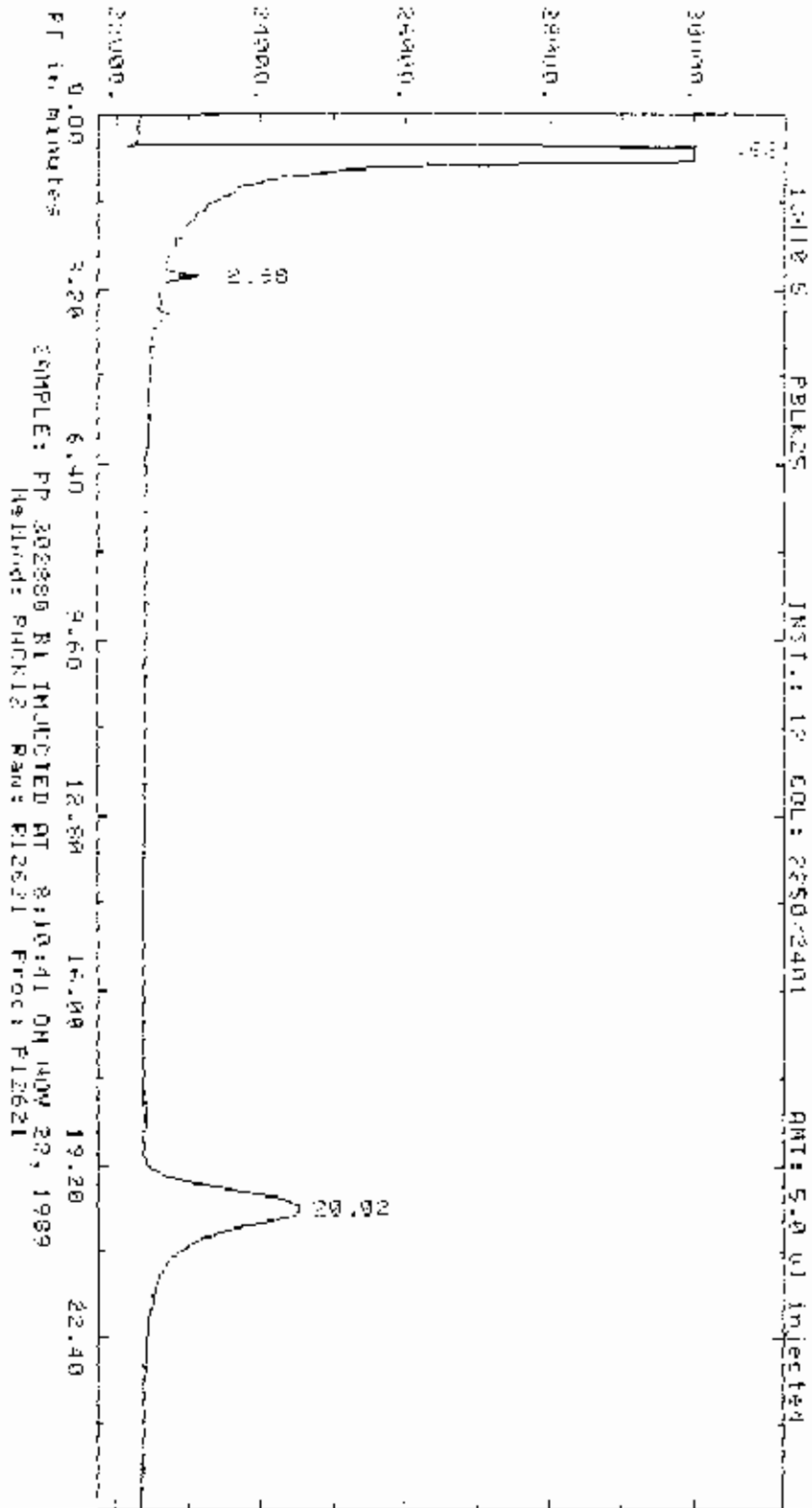
DBC	Standard RT window - 22.50 - 23.42	Sample RT - 22.89	
	Standard Area - 630668	Sample Area - 576420	
	Standard Conc(ug/ml) - 0.100	Sample Conc(ug/l) - 0.91	91.40 % Recovery
		Sample ng on col - 0.091398	

Analyst Comments:



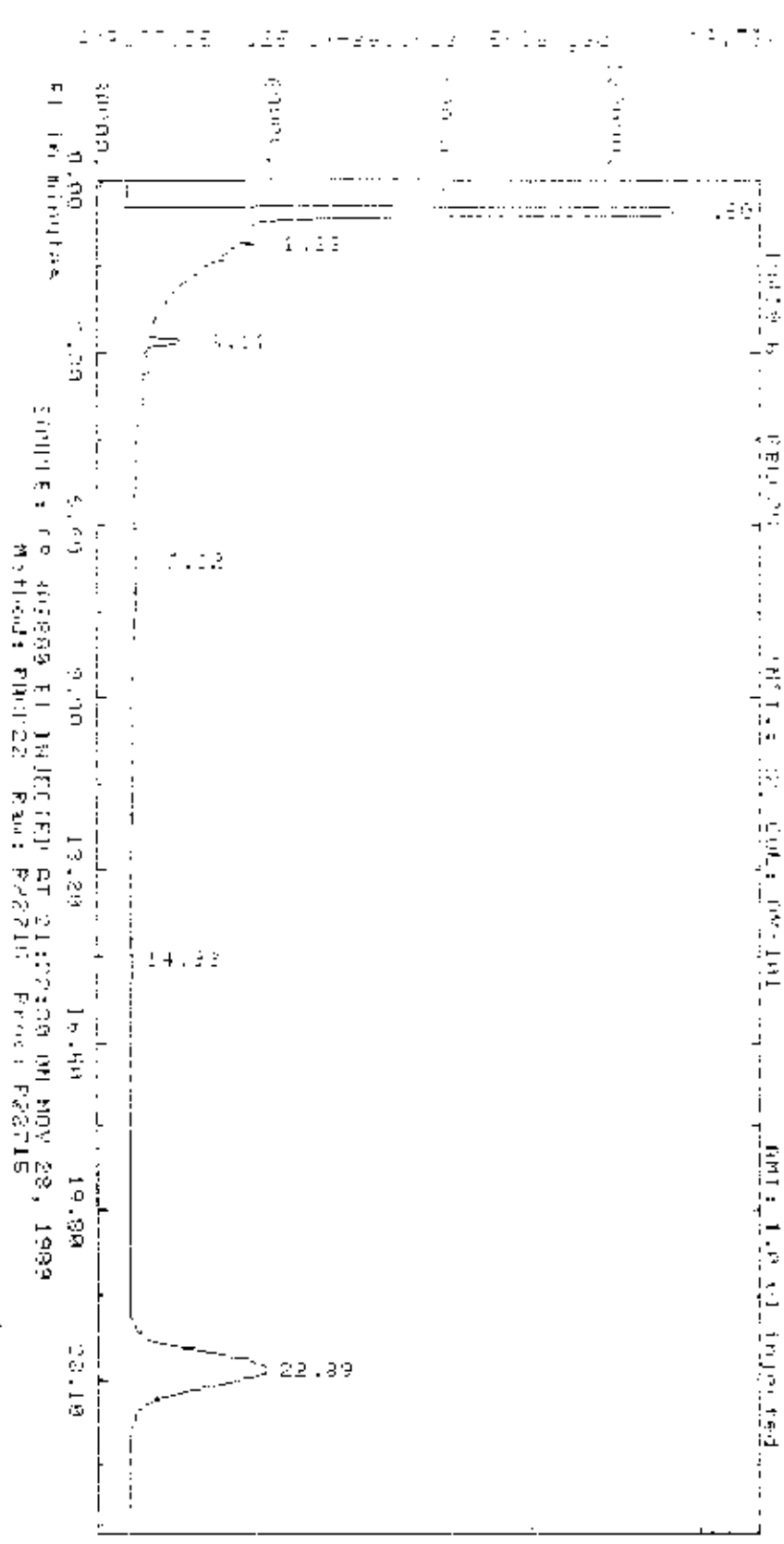
Report: 13834 00 Channel: 1 15419 5 FEB 25
 Sample: PP 302620 24 Injected at 17:49 40 On 10/ 17, 1987
 ZPRQ Method: P40K01 Seq: 08017 S1000/Comp: 1/00 211. 00
 O1=0.000 0.000 Delay 0.00 0.000 0.000
 Sup-Mix Det ID-Lvl Ref-KTW ZRTW X111-y 1.00
 NO 0.00 0 0.00 5.0 100.00 0.00
 Actual run time: 21.000 minutes

RT	ITM	Factor	Area	AREA %	Name
7.1	0.00	.10000E+01	0. 00	0.000	
3.44	0.00	.10000E+01	13411. 60	2.115	
4.25	0.00	.10000E+01	5227. 80	.927	
19.48	0.00	.10000E+01	6124. 00	.956	
21.51	0.00	.10000E+01	307999. 00	95.955	
Total Area =		633761.	Total AREA % =		607997.000
Processed data file: P1340			Raw data file		R1340



Report: 12488 00 Channel: 10 10418 5 P12621
 Sample: 99 102000 91 Injected at: 8-10-91 04:40:23, 1999
 ZEPQ Method: P00K12 Seq: 001136 Subst./Sample: 1/21 Dil: 21
 Sl-width: 500 MV/Min: 300 Delay: 0.00 Filter: 1000 Peak: Auto
 Stop-Lock: 00 Det: 0.00 ID-Lvl: 0 Ref-RTN: .30 CRT: 5.6 2011-0 100 00 100
 Actual run time: 23.017 minutes

RT	TCM	Factor	Area	AREA %	Name
63.00	0.00	1.0000E+01	566622.58	87.197	
7.98	0.00	1.0000E+01	2003.58	0.313	
20.02	0.00	1.0000E+01	66820.58	10.487	
Total Area =		633246.	Total AREA % =		66820.000
Processed data file: P12621			Raw data file: R12621		



LAB INSTRUCTIONS:
PESTICIDES
WORKSHEET
RECEIPT DATE:

CASE #18410-5
CEP
1406/89

SAS:
COMPUchem #302880

DATE DUE:

Sample Prep Code--- -55
Instrument Code-----144
Compound List-----499
Surrogate Std-----395

LOW LEVEL WATER, EPA 504 2/88

SDG: 05 EPA#: PBLK 25

Blank Associated with Case _____
Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 ml

portion of Vol. in pesticide _____

ANALYSIS INFORMATION: COMMENTS Send to QA
 QA Approved
 Need QC/MS Confirmation

Inst. # /
Date Sequence Dil. Fact.

11/17 1 13 1
11/22 12 126 1
11/28 22 227 1

ISDL

Analyst 879/1569 Date 11-29-89

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 95 % Recovery
AREA IN STD

% Recovery X 0.1 ug/ml = _____ ug/ml

- +EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.
- JA = reinject acceptable
- QA = repeat confirmed original results
- OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+= OK
- NS = insufficient sample for repeat
- DL = DBC low ((20% Recovery)
- DA = Dilution Acceptable
- BF = Blank Requires Florisil
- CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

QANA QANI QA notice included.

SAMPLE DISPOSITION Code

- Complete.....
- Requires Re-extraction.. -55
- Requires cleanup..... 901

Audited By _____ Date _____

ASSIGNED TO *Mark J. Rice*
 EMPLOYEE ID # *1157*

COMPUCHER LABORATORIES
 EXTRACTION WORKSHEET
 EPA LOW LEVEL PESTICIDE WRITER

DATE EXTRACTED/POSTED *11-17-79*

CRSE # *18410.5*

-055

QUEUE # 10

(2-88) Revs

SAMPLE NUMBER	EPA ID #	DC TYPE	SAMPLE ORIG #	SAMPLE VOLUME	ALUMINUM START VOL.	FINAL VOL.	COMMENTS
1	302150	738001-15		1000ml.	1.0ml.	10ml.	
2	302154	738001-16		1000ml.	1.0ml.	10ml.	
3	302155	738001-22		1000ml.	1.0ml.	10ml.	
4	302157	738001-23		1000ml.	1.0ml.	10ml.	
5	302166	738001-24		1000ml.	1.0ml.	10ml.	
6	302168	738001-21		1000ml.	1.0ml.	10ml.	
7	302172	738001-17		1000ml.	1.0ml.	10ml.	
8	302173	738001-18		1000ml.	1.0ml.	10ml.	
9	302174	738001-13		1000ml.	1.0ml.	10ml.	
10	302175	738001-14		1000ml.	1.0ml.	10ml.	
11	302176	738001-24		1000ml.	1.0ml.	10ml.	
12	302182	738001-23		1000ml.	1.0ml.	10ml.	
13							
14	ALUMINA BLK		B	1.0ml.	1.0ml.	1.0ml.	LOT # 30391 amount 1.0ml # 57
15							
16							
17							
18							
19							
20							
21	303880	BLK 25	BLNK	1000ml.	1.0ml.	10ml.	
22	303881	BLK 26	BLNK	1000ml.	1.0ml.	10ml.	

SURR 395 1 ML *30412*
 SPIKE 4016 100 UL *XX*

CHECKED AND VERIFIED *11/17/79* (GC LAB)
 CRSE DONE (GC LAB)

AUTO. COUNTER 718 /
 MANUAL COUNTER 735 / *511*

ALUMINA BATCH # *11-10-89-PL*

11/17/79
MSR

Rec'd 15 Nov 84
 Due 13 Dec 84

Rec'd GC 11-17-89

COMPOUND LIST NO. - 499

COMPUCHEM #302380 DATE
 IDENTIFIER PESTICIDES (LOW LEVEL WATER) EPA 804 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ /S = 1.0
 AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----		0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLOROANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I -----		0.050
12.	0712	ENDOSULFAN II -----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALCOHYOE-----	<i>BDL</i>	0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIOE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOKAPHENE-----		1.0

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK19

Lab Name: COMPUCHEM LABORATORIES Contract: 72-881-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 303176
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: / /
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/17/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/21/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1569 on Fri Dec 1, 1989 5:01 pm using EPACA 1.51

CompuChem Number:303176 Case#:18410 SDG #:5 EPA#:PBLK19
 Matrix = Water Level = L Compound List = 175

Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} * \text{Standard Conc} * \text{Multiplication Factor} * \text{Split} * \text{Final Volume} * \text{Dry Weight Factor}}{\text{Standard Area} * \text{Volume or Weight of Sample}}$

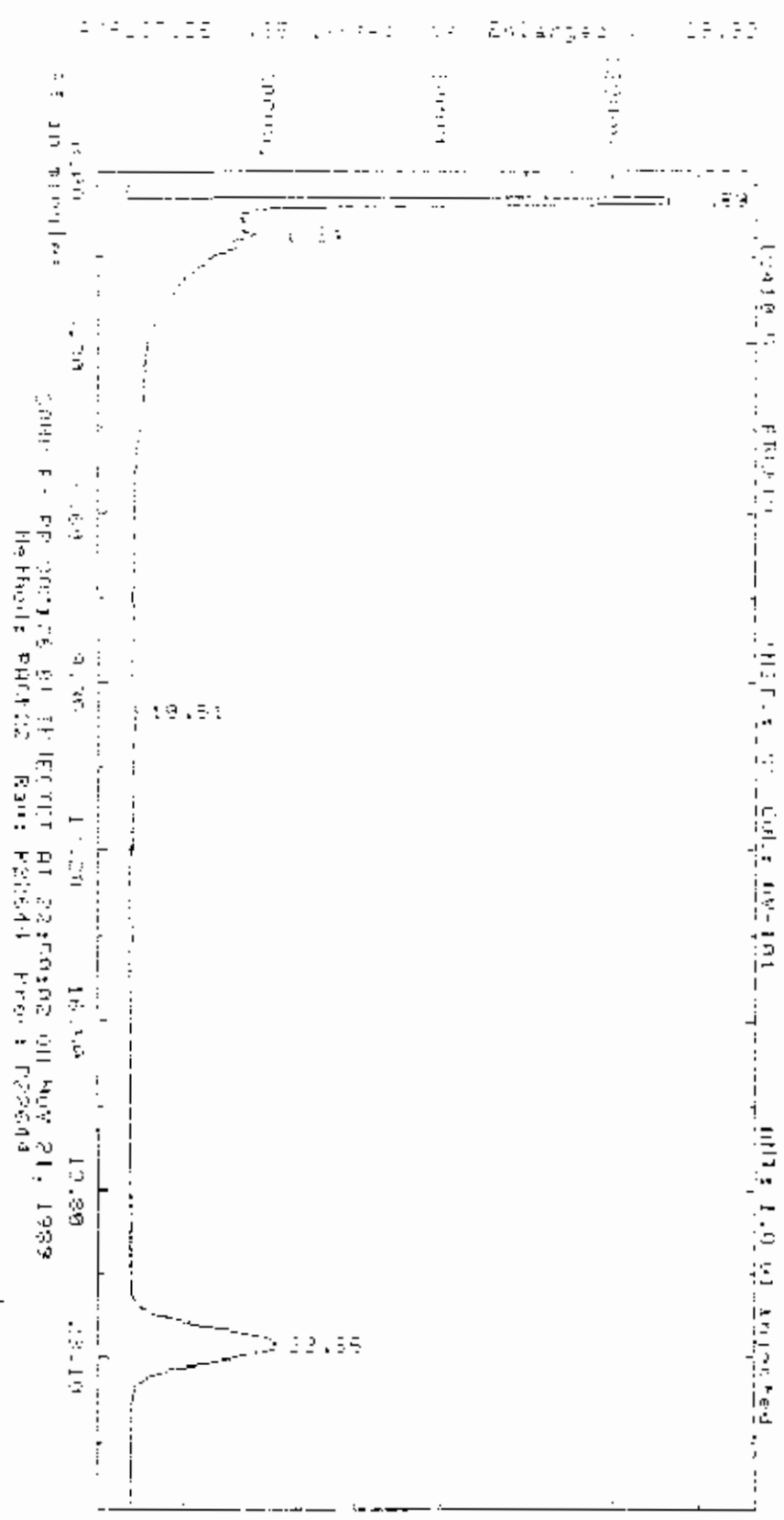
File : P22644 Column : OV-101 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Standard RT window - 22.38 - 23.30	Sample RT - 22.85	Primary/Reported QADS
Standard Area - 631395	Sample Area - 610508	
Standard Conc(ug/ml) - 0.100	Sample Conc(ug/L) - 0.97	96.69 % Recovery
	Sample ng on col - 0.096692	

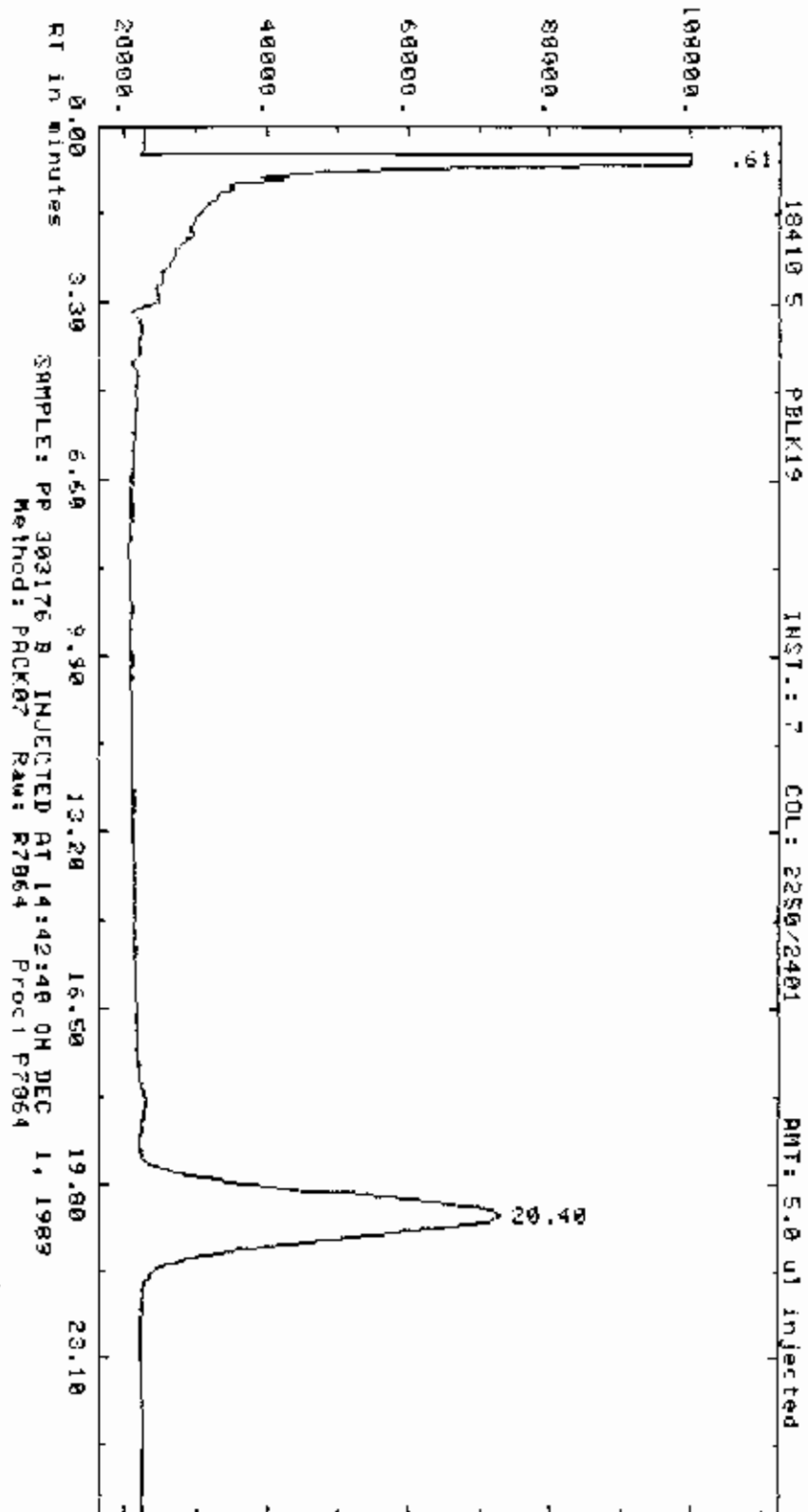
File : P7864 Column : 2250/2401 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Standard RT window - 20.24 - 21.07	Sample RT - 20.40	
Standard Area - 1207364	Sample Area - 1505860	
Standard Conc(ug/ml) - 0.100	Sample Conc(ug/L) - 1.25	124.72 % Recovery
	Sample ng on col - 0.124723	

Analyst Comments:



AMPLITUDE x.25 uV-seconds (Enlarged x 25.92)



Report: 14105.00 Channel: 7 10410 5 PBLK19
 Sample: PP 303176 B Injected at 14:42:48 ON DEC 1, 1989
 ZERO Method: PACK07 Seq: SEQ79 Subsq/Samp: 1/64 Str: 64
 Sl-width MU/Min Delay Min-Ar Bunch
 .500 .300 0.00 20000 Auto
 Sup-Unk DvT ID-Lvl Ref-RTW %RTW %Dil-F Iso
 NO 0.00 0 .30 5.0 100.00 NO
 Actual run time: 26.017 minutes
 Ended not on baseline

RT	ITM	Factor	Area	AREA %	Name
.61	0.00	.10000E+01	7689632.	93.624	BS
20.40	0.00	.10000E+01	1505860.	16.376	BB
Total Area =		9195492.	Total AREA % = 1505860.500		
Processed data file: P7864			Raw data file: R7864		

LAB INSTRUCTIONS:
PESTICIDES
WORKSHEET
RECEIPT DATE:

CASE # 19410-5 ^{CFE 12/06/89} SAS: DATE DUE:
COMPUCHEM #303176

LOW LEVEL WATER, EPA 60M 2/88

Sample Prep Code--- -55
Instrument Code----144
Compound List-----499
Surrogate Std-----395

===== SDG: 05 EPA#: PBLK19
Blank Associated with Case _____
Associated Blank _____
=====

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 ml

portion of Vol. in pesticide _____
=====

ANALYSIS INFORMATION: COMMENTS: Send to QA
 QA Approved
 Need GC/MS Confirmation

Inst. # /	Date	Sequence	Dil. Fact.
	<u>11/21</u>	<u>22</u>	<u>226</u>
	<u>12/1</u>	<u>7</u>	<u>78</u>
			<u>1</u>
			<u>1</u>

BDL

Analyst 1569/819 Date 11/28/89

===== SURROGATE INFORMATION DIBUTYL CHLORODATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 97 X Recovery
AREA IN STD

X Recovery X 0.1 ug/ml = _____ ug/ml
=====

- +EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.
- JA = reinject acceptable
- QA = repeat confirmed original results
- OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+= ak
- NS = insufficient sample for repeat
- DL = DBC low ((20% Recovery)
- DA = Dilution Acceptable
- BF = Blank Requires Florisil
- CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

QANA QAN3 QA notice included.
=====

SAMPLE DISPOSITION Code

- Complete.....
- Requires Re-extraction.. -55
- Requires cleanup..... 901

===== Audited By _____ Date _____

ASSIGNED TO *Deanna England*

COMPUCHEN LABORATORIES
EXTRACTION WORKSHEET
EPR LUM LEVEL PESTICIDE WRITER

DATE EXTRACTED/POSTED 11-17-89

CASE # 18410.5, 18044-00853 11-18-89

-055

QUEUE # 10 Rows

SAMPLE NUMBER	EPR ID #	QC TYPE	SAMPLE QRTG #	SAMPLE VOLUME	ALUMINA START VOL.	FENRL VOL.	COMMENTS
301920R	55	55	301917	500	1.0	5.0	9/15/91 Use 500ul sample vol. for 60 only. Add 0.5ml surf. Add 50ul spike. Conc. to 5.0ml final volume.
301922R	55	55	301917	500	1.0	5.0	
301928R	55	BS		1000	1.0	10.0	Use 301917 for QC by only 1 sample
301909R	738001-12			1000	1.0	10.0	(Use 301909, 910, 918 for QC)
301910R	738001-02			1000	1.0	10.0	
301917R	738001-01			1000	1.0	10.0	
301922R	738001-03			1000	1.0	10.0	
301927R	738001-08			1000	1.0	10.0	
301937R	738001-05			1000	1.0	10.0	
301938R	738001-10			1000	1.0	10.0	
301939R	738001-06			1000	1.0	10.0	
301941R	738001-06			1000	1.0	10.0	
301942R	738001-08			1000	1.0	10.0	
301943R	738001-05			1000	1.0	10.0	
301944R	738001-10			1000	1.0	10.0	
301945R	738001-06			1000	1.0	10.0	
301946R	738001-05			1000	1.0	10.0	
301947R	738001-03			1000	1.0	10.0	
301948R	738001-01			1000	1.0	10.0	
301949R	738001-02			1000	1.0	10.0	
301950R	738001-08			1000	1.0	10.0	
301951R	738001-05			1000	1.0	10.0	
301952R	738001-10			1000	1.0	10.0	
301953R	738001-06			1000	1.0	10.0	
301954R	738001-05			1000	1.0	10.0	
301955R	738001-10			1000	1.0	10.0	
301956R	738001-06			1000	1.0	10.0	
301957R	738001-05			1000	1.0	10.0	
301958R	738001-10			1000	1.0	10.0	
301959R	738001-06			1000	1.0	10.0	
301960R	738001-05			1000	1.0	10.0	
301961R	738001-10			1000	1.0	10.0	
301962R	738001-06			1000	1.0	10.0	
301963R	738001-05			1000	1.0	10.0	
301964R	738001-10			1000	1.0	10.0	
301965R	738001-06			1000	1.0	10.0	
301966R	738001-05			1000	1.0	10.0	
301967R	738001-10			1000	1.0	10.0	
301968R	738001-06			1000	1.0	10.0	
301969R	738001-05			1000	1.0	10.0	
301970R	738001-10			1000	1.0	10.0	
301971R	738001-06			1000	1.0	10.0	
301972R	738001-05			1000	1.0	10.0	
301973R	738001-10			1000	1.0	10.0	
301974R	738001-06			1000	1.0	10.0	
301975R	738001-05			1000	1.0	10.0	
301976R	738001-10			1000	1.0	10.0	
301977R	738001-06			1000	1.0	10.0	
301978R	738001-05			1000	1.0	10.0	
301979R	738001-10			1000	1.0	10.0	
301980R	738001-06			1000	1.0	10.0	
301981R	738001-05			1000	1.0	10.0	
301982R	738001-10			1000	1.0	10.0	
301983R	738001-06			1000	1.0	10.0	
301984R	738001-05			1000	1.0	10.0	
301985R	738001-10			1000	1.0	10.0	
301986R	738001-06			1000	1.0	10.0	
301987R	738001-05			1000	1.0	10.0	
301988R	738001-10			1000	1.0	10.0	
301989R	738001-06			1000	1.0	10.0	
301990R	738001-05			1000	1.0	10.0	
301991R	738001-10			1000	1.0	10.0	
301992R	738001-06			1000	1.0	10.0	
301993R	738001-05			1000	1.0	10.0	
301994R	738001-10			1000	1.0	10.0	
301995R	738001-06			1000	1.0	10.0	
301996R	738001-05			1000	1.0	10.0	
301997R	738001-10			1000	1.0	10.0	
301998R	738001-06			1000	1.0	10.0	
301999R	738001-05			1000	1.0	10.0	
302000R	738001-10			1000	1.0	10.0	

SURR 395 1 ML 30412
SPIKE 4016 100 UL 30313
ALUMINA BATCH # 11/10/89
CHECKED AND VERIFIED 11/18/89 (GC LAB)
AUTO. COUNTER 718 / 44
MANUAL COUNTER 736 / 613



COMPOUND LIST NO. - 499

COMPUCHEM #30376 DATE
 IDENTIFIER PESTICIDES (LOW LEVEL WATER) EPA 504 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ /5 = 1.0
 AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----	 <i>BBL</i> 	0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I -----		0.050
12.	0712	ENDOSULFAN II -----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0719	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLDR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXTCHLDR-----		0.50
20.	0724	AROCHLDR 1016-----		0.50
21.	0720	AROCHLDR 1221-----		0.50
22.	0721	AROCHLDR 1232-----		0.50
23.	0718	AROCHLDR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK98

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 304452
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: / /
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/28/89
 Extraction: (SepF/Cont/Sonc) SEPP Date Analyzed: 11/29/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-15-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1221 on Wed Nov 29, 1989 10:54 pm using EPACA 1.51

CompuChem Number:304452 Case#:18410 SDG #:5 EPA#:PBLK98
 Matrix = Water Level = L Compound List = 175

Volume/weight extracted = 1000.00 ML Final Extract Volume = 10.00 ml Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} * \text{Standard Conc} * \text{Multiplication Factor} * \text{Split} * \text{Final Volume} * \text{Dry Weight Factor}}{\text{Standard Area} * \text{Volume or Weight of Sample}}$

File : P22737 Column : OV-101 Multiplication Factor : 1.0 Detection Level Factor : 1.00

Compound	Standard RT window	Standard Area	Standard Conc	Sample RT	Sample Area	Sample Conc	Sample ng on col	Notes
Heptachlor	3.65 - 3.80	87987	0.010	3.72	3319	0.00 (RDL)	0.000377	
Endrin ketone	13.66 - 14.22	618472	0.100	14.12	1018	0.00 (RDL)	0.000165	0.25 12/06/89
DBC	22.50 - 23.42	630668	0.100	23.34	607199	0.96	0.096279	Primary/Reported QADS 96.28 % Recovery

Analyst Comments:

LAB INSTRUCTIONS:
PESTICIDES
WORKSHEET
RECEIPT DATE

CASE # RA-10 SAS:
CPE COMPUCHEM # 204127
12/06/89

DATE DUE:
Sample Prep Code--- -55
Instrument Code-----144
Compound List-----499
Surrogate Std-----395

LOW LEVEL WATER, EPA 800 2/88

=====

SDG: 0.5 EPAR: 1527915
Blank Associated with Case _____
Associated Blank _____

=====

EXTRACTION INFORMATION: CALC Used? yes

Vol. of sample 1000 ml final volume of extract 10 ml

portion of Vol. in pesticide _____.

=====

ANALYSIS INFORMATION: COMMENTS Send to QA
 QA Approved
 Need GC/MS Confirmation

Inst. # / Date Sequence Dil. Fact. 129 22 227 1 BOL

Analyst 1221 Date 11/29/89

=====

SURROGATE INFORMATION DIBUTYL CHLORENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 96 X Recovery
AREA IN STD

X Recovery X D.F. ug/ml = _____ ug/ml

- =====
- +EA = re-extract acceptable
 - JA = reinject acceptable
 - OA = repeat confirmed original results
 - OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+ = OK
 - NS = insufficient sample for repeat
 - OL = OBC low (<20% Recovery)
 - DA = Dilution Acceptable
 - BF = Blank Requires Florisil
 - CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

QANA QAN3 QA notice included.

=====

SAMPLE DISPOSITION Code

- Complete.....
- Requires Re-extraction.. -55
- Requires cleanup..... 901

=====

Audited By _____ Date _____

ASSIGNED TO Josephine Lipscomb
 EMPLOYEE ID # 2926

COMPUTER LABORATORIES
 EXTRACTION WORKSHEET
 EPR LOW LEVEL PESTICIDE WRITER

DATE EXTRACTED/POSTED 1-29-89

CASE # 18410.5

-055

QUEUE # 10 (2-18) Pass

SAMPLE NUMBER	EPR ID #	QC TYPE	SAMPLE DRIB #	SAMPLE VOLUME	ALUMINUM START VOL.	FINAL VOL.	COMMENTS
1	301920R2	SS	301917	500ml	1.0ml	5.0ml	10/14/89 Use 500ml sample vol. for SS only. Add 0.5ml surf. Add 50ml aq. conc. to 9.0ml final volume.
2	301927R2	SS	301917	500ml	1.0ml	5.0ml	
3	301928R2	GS		1000ml	1.0ml	10.0ml	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20	301952	DBLK 98	BLANK	1000ml	1.0ml	10.0ml	Rec 11/19
21	301953	DBLK 99	BLANK	1000ml	1.0ml	10.0ml	Rec 12/12
22							

SUBR 395 1 ML 30112
 SPIKE 4016 100 UL 30313
 AMOUNT LOT
 CHECKED AND VERIFIED 11-29-89 (GC LAB)
 CRASE DOME (GC LAB)

ALUMINUM BRICH # 11-22-89



AUTO. COUNTER 718 / 44
 ANNUAL COUNTER 716 / 531

COMPOUND LIST NO. - 499

COMPUCHEN # 304452 DATE
 IDENTIFIER PESTICIDES (LOW LEVEL WATER) EPA 504 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ /5 = 1.0
 AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEN COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----		0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----		0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I-----		0.050
12.	0712	ENDOSULFAN II-----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----	BDU	0.10
17.	0716	HEPTACHLOR-----		0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXTCHLOR-----		0.50
20.	0724	ARDCHLOR 1016-----		0.50
21.	0720	ARDCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	ARDCHLOR 1242-----		0.50
24.	0722	ARDCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	07E3	ARDCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

(2) Matrix Spike Data

(a) Tabulated results (Form I PEST) of nonspike TCL compounds

(b) Chromatogram (a) and data system printout (a) (GC)

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-01MS

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS

Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5

Matrix: (soil/water) WATER Lab Sample ID: 301926

Sample wt/vol: 500 (g/mL) ML Lab File ID: _____

Level: (low/med) LOW Date Received: 11/14/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 11/28/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/29/89

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1221 on Wed Nov 29, 1989 10:59 pm using EPACA 1.51

CompuChem Number:301926 Case#:18410 SDG #:5 EPA#:738001-01MS
 Matrix = Water Level = L Compound List = 175

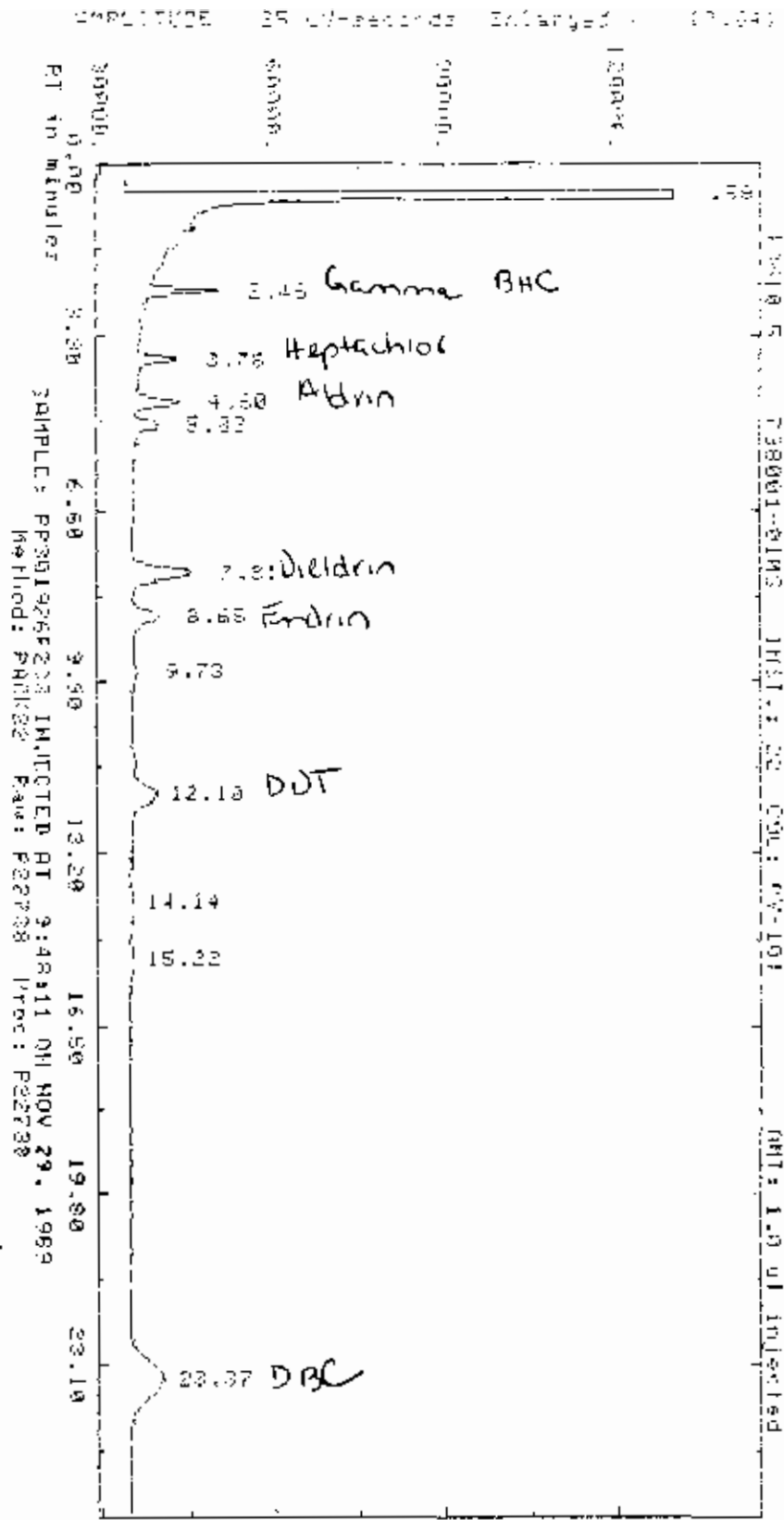
Volume/weight extracted = 500.00 mL Final Extract Volume = 5.00 ml Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} * \text{Standard Conc} * \text{Multiplication Factor} * \text{Split} * \text{Final Volume} * \text{Dry Weight Factor}}{\text{Standard Area} * \text{Volume or Weight of Sample}}$

File : P22738 Column : OV-101 Multiplication Factor : 3.0 Detection Level Factor : 1.00

Compound	Standard RT window	Standard Area	Standard Conc(ug/ml)	Sample RT	Sample Area	Sample Conc(ug/L)	Sample ng on col	Recovery %	Notes
gamma-BHC (Lindane)	2.38 - 2.47	115305	0.010	2.46	36608	0.16	0.003169	79.24 %	Primary/Reported OADS
Heptachlor	3.65 - 3.80	87987	0.010	3.78	30976	0.18	0.003321	88.01 %	Primary/Reported OADS
Aldrin	4.44 - 4.62	106294	0.010	4.60	37454	0.18	0.003324	88.09 %	Primary/Reported OADS
Dieldrin	7.53 - 7.84	179307	0.020	7.81	83569	0.47	0.009321	93.21 %	Primary/Reported OADS
Endrin	8.36 - 8.70	157625	0.040	8.65	37928	0.48	0.009625	96.25 %	Primary/Reported OADS
4,4'-DDT	11.68 - 12.16	370439	0.060	12.10	44621	0.36	0.007227	72.27 %	Primary/Reported OADS
DDE	22.50 - 23.42	630668	0.100	23.37	140646	1.12	0.022301	111.51 %	Primary/Reported OADS

Analyst Comments:



LAB INSTRUCTIONS:
PESTICIDES
WORKSHEET
RECEIPT DATE

CASE # RA789 SAS:
CFE COMPUCHEM # 12404189

DATE DUE:
Sample Prep Code--- -55
Instrument Code----144
Compound List-----499
Surrogate Std-----395

LOW LEVEL WATER, EPA 804 2/88

SDG: 05 EPA# 105 MS/141
Blank Associated with Case _____
Associated Blank _____

EXTRACTION INFORMATION: CALC Used yes no

Vol. of sample 500 ml final volume of extract 5 ml

portion of Vol. in pesticide _____

ANALYSIS INFORMATION: COMMENTS Send to QA
 QA Approved
 Need GC/MS Confirmation
Inst. # / Date Sequence Dil. Fact. 11/29 22 223 5 spike

Analyst 1221 Date 11/29/89

SURROGATE INFORMATION DIBUTYL CHLDRENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 112 X Recovery
AREA IN STD

% Recovery X 0.1 ug/ml = _____ ug/ml

- +EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.
- JA = reinject acceptable
- QA = repeat confirmed original results
- OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+= EA
- NS = insufficient sample for repeat
- DL = DBC low (<20% Recovery)
- DA = Dilution Acceptable
- BF = Blank Requires Florisil
- CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPORT THIS DATA: _____

QANA QANJ QA notice included.

SAMPLE DISPOSITION Code

- Complete.....
- Requires Re-extraction.. -59
- Requires cleanup..... 901

Audited By _____ Date _____

ASSIGNED TO Josephine Lipscomb
 EMPLOYEE ID # 18410.5

COMPUCHEM LABORATORIES
 EXTRACTION WORKSHEET
 EPA LOW LEVEL PESTICIDE WRITER

DATE EXTRACTED/POSTED 11-29-89

CRSE # 18410.5

-BSS

QUEUE # 10 (B-88) Pass

SAMPLE NUMBER	EPA ID #	DC SAMPLE TYPE	SAMPLE DRIG #	SAMPLE VOLUME	ALUMINA START VOL.	FINAL VOL.	COMMENTS
1	<u>30192482</u>	<u>SS</u>	<u>301917</u>	<u>500ml</u>	<u>1.0ml</u>	<u>5.0ml</u>	<u>98% vol</u> Use 500ml sample vol. for SS only. Add 0.5ml surf. Add 50ul alpha. conc. to 5.0ml final volume.
2	<u>30192782</u>	<u>SS</u>	<u>301917</u>	<u>500ml</u>	<u>1.0ml</u>	<u>5.0ml</u>	
3	<u>30192882</u>	<u>BS</u>		<u>1000ml</u>	<u>1.0ml</u>	<u>10.0ml</u>	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21	<u>304452</u>	<u>PBLK 98</u>	<u>BLANK</u>	<u>1000ml</u>	<u>1.0ml</u>	<u>10.0ml</u>	<u>Rec'd 11/14</u>
22	<u>304493</u>	<u>PBLK 99</u>	<u>BLANK</u>	<u>1000ml</u>	<u>1.0ml</u>	<u>10.0ml</u>	<u>Done 12/12</u>

AMOUNT LBT
 SURR 395 1 ML 30412
 SPIKE 4016 100 UL 30313
 CHECKED AND VERIFIED 11-29-89 (GC LAB)
 CRSE DONE 11-22-89 (GC LAB)
 AUTO. COUNTER 718 / ALL
 MANUAL COUNTER 735 / 531



COMPOUND LIST NO. - 499

COMPUCHEM # 501100 K7 DATE
 IDENTIFIER PESTICIDES (LOW LEVEL WATER) EPA SOW 2/88

DIL FACT _____ DRY WT _____ 1.0 SPLIT _____ FINAL VOL _____ /S = 1.0
 AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----	.18	0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----	.16	0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----	.36	0.50
7.	0707	4,4'-DDT-----		0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----	.47	0.10
10.	0710	DIELDRIN-----		0.10
11.	0711	ENDOSULFAN I -----		0.050
12.	0712	ENDOSULFAN II -----		0.10
13.	0713	ENDOSULFAN SULFATE-----		0.10
14.	0714	ENDRIN-----	.48	0.10
15.	0719	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0715	HEPTACHLOR-----	.18	0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1E48-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

ANALYST'S COMMENTS:

(3) Matrix Spike Duplicate Data

(a) Tabulated results (Form I PEST) of nonspike TCL compounds

(b) Chromatogram (a) and data system printout (a) (GC)

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

738001-01MSD

Lab Name: COMPUCHEM LABORATORIES Contract: (2-88)-REVS
 Lab Code: COMPU Case No.: 18410 SAS No.: _____ SDG No.: 5
 Matrix: (soil/water) WATER Lab Sample ID: 301927
 Sample wt/vol: 500 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 11/14/89
 % Moisture: not dec. _____ dec. _____ Date Extracted: 11/28/89
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/29/89
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Analysis Worksheet

By employee #1221 on Wed Nov 29, 1989 11:02 pm using EPACA 1.51

CompuChem Number:301927 Case#:18410 SDG #:5 EPA#:738001-01MSD
 Matrix = Water Level = L Compound List = 175

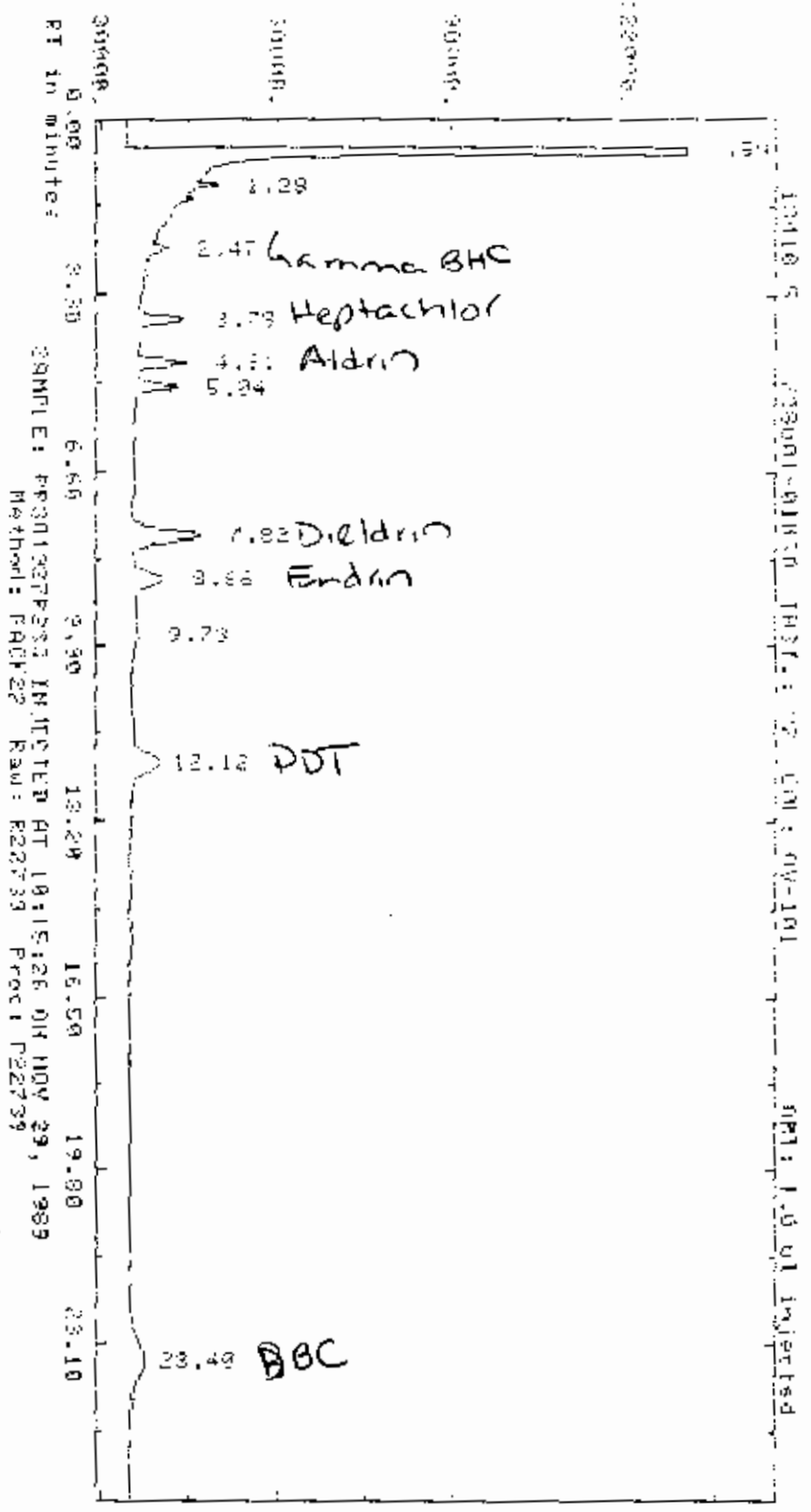
Volume/weight extracted = 500.00 ML Final Extract Volume = 5.00 ml Split = 1.0 Dry Weight Factor = 1.00

Concentration = $\frac{\text{Sample Area} * \text{Standard Conc} * \text{Multiplication Factor} * \text{Split} * \text{Final Volume} * \text{Dry Weight Factor}}{\text{Standard Area} * \text{Volume or Weight of Sample}}$

File : P22739 Column : OV-101 Multiplication Factor : 5.0 Detection Level Factor : 1.00

gamma-BHC (Lindane)	Standard RT window - 2.38 - 2.67	Sample RT - 2.67	Primary/Reported QADS
	Standard Area - 115509	Sample Area - 6665	
	Standard Conc(ug/ml) - 0.010	Sample Conc(ug/l) - 0.03	14.63 % Recovery
		Sample ng on col - 0.000577	
Heptachlor	Standard RT window - 3.65 - 3.80	Sample RT - 3.78	Primary/Reported QADS
	Standard Area - 87987	Sample Area - 33746	
	Standard Conc(ug/ml) - 0.010	Sample Conc(ug/l) - 0.19	95.88 % Recovery
		Sample ng on col - 0.003835	
Aldrin	Standard RT window - 4.46 - 4.62	Sample RT - 4.61	Primary/Reported QADS
	Standard Area - 106294	Sample Area - 41747	
	Standard Conc(ug/ml) - 0.010	Sample Conc(ug/l) - 0.20	98.19 % Recovery
		Sample ng on col - 0.003928	
Dieldrin	Standard RT window - 7.53 - 7.84	Sample RT - 7.82	Primary/Reported QADS
	Standard Area - 179307	Sample Area - 93151	
	Standard Conc(ug/ml) - 0.020	Sample Conc(ug/l) - 0.52	103.90 % Recovery
		Sample ng on col - 0.010390	
Endrin	Standard RT window - 8.36 - 8.70	Sample RT - 8.66	Primary/Reported QADS
	Standard Area - 157625	Sample Area - 43748	
	Standard Conc(ug/ml) - 0.040	Sample Conc(ug/l) - 0.36	111.02 % Recovery
		Sample ng on col - 0.011102	
4,4'-DDT	Standard RT window - 11.68 - 12.16	Sample RT - 12.12	Primary/Reported QADS
	Standard Area - 370439	Sample Area - 49748	
	Standard Conc(ug/ml) - 0.060	Sample Conc(ug/l) - 0.40	80.38 % Recovery
		Sample ng on col - 0.008038	
DDE	Standard RT window - 22.50 - 23.42	Sample RT - 23.40	Primary/Reported QADS
	Standard Area - 630668	Sample Area - 80904	
	Standard Conc(ug/ml) - 0.100	Sample Conc(ug/l) - 0.64	64.19 % Recovery
		Sample ng on col - 0.012638	

Analyst Comments:



Report: 1700.00 Unlabeled EE 15412 735011-0101
 Sample: P23019270288 Injct on at 10:45:26 CH MOU 17, 1987
 ZEPD Method: PACK28 Run SLO327 Subc (Temp 1.37) P-1 10
 RI-width MV/Min Delay 110-30 300h
 500 .300 0.00 5000 300h
 Sup-Flow DvT ID-Lvl Ref-Flow TRIM 3111.8 Ito
 NO 0.00 0 11 5.0 570.60 GC

Actual run time: 26.003 minutes

Ended not on baseline

RT	ITH	Factor	Area	AREA %	name
1.59	0.00	.10000E+01	1602737.	28	150.155
1.28	0.00	.10000E+01	7152.	00	.713
2.47	0.00	.10000E+01	5665.	00	.566
3.78	0.00	.10000E+01	32745.	00	3.374
4.61	0.00	.10000E+01	41747.	00	4.174
5.04	0.00	.10000E+01	31056.	00	3.106
7.82	0.00	.10000E+01	73151.	00	7.313
8.66	0.00	.10000E+01	13748.	00	1.374
9.73	0.00	.10000E+01	8552.	00	.855
12.12	0.00	.10000E+01	42745.	00	4.274
23.40	0.00	.10000E+01	60964.	00	6.094

Total Area = 5001307. Total AREA % = 60964.000

Processed data file: P22739 Raw data file: R22739

LAB INSTRUCTIONS:
PESTICIDES
WORKSHEET
RECEIPT DATE

CASE # 13410 ✓ SAG: DATE DUE:
(88) COMPUCHEM # 501537 R2
12/06/89

Sample Prep Code--- -55
Instrument Code-----144
Compound List-----499
Surrogate Std-----395

LOW LEVEL WATER, EPA SDW 2/88

SDG: 05 EPAN: 13 719/441

Blank Associated with Case _____
Associated Blank _____

EXTRACTION INFORMATION: CALC Used? yes []

Vol. of sample 500 ml final volume of extract 5 ml

portion of Vol. in pesticide _____

ANALYSIS INFORMATION: COMMENTS [] Send to QA

Inst. # / Date Sequence Dil. Fact. [] QA Approved

11/29 22 227 5 Spike [] Need GC/MS Confirmation

Analyst 1221 Date 11/29/89

SURRGATE INFORMATION OIBUTYL CHLDRENDATE

AREA IN SAMPLE _____ X Dilution Factor _____ X 100 = 64 X Recovery
AREA IN STD

X Recovery X 0.1 ug/ml = _____ ug/ml

- +EA = re-extract acceptable IF DATA FAILS, INSERT CONDITION CODE FROM REPEAT REQUEST FORM IN BOX.
- JA = reinject acceptable
- QA = repeat confirmed original results
- OK = original data acceptable (not for REPEATS) FINAL STATUS CODE+ EA
- NS = insufficient sample for repeat
- DL = DBC low (<20% Recovery)
- DA = Dilution Acceptable
- BF = Blank Requires Florisil
- CT = Contamination Suspected

IF MULTIPLE PACKAGES EXIST, REPDRT THIS DATA: _____

[] QANA [] QAN3 QA notice included.

SAMPLE DISPOSITION Code

- [] Complete.....
- [] Requires Re-extraction.. -55
- [] Requires cleanup..... 901

Audited By _____ Date _____

ASSIGNED TO J. J. Lipman
 EMPLOYEE ID # 18405

COMPUCHEN LABORATORIES
 EXTRACTION WORKSHEET
 EPR LOW LEVEL PESTICIDE WATER

DATE EXTRACTED/POSTED 11-29-89

CASE # 18405

-055

QUEUE # 1D (2-88) Pass

SAMPLE NUMBER	EPR ID #	QC SAMPLE TYPE	DRIB #	SAMPLE VOLUME	ALUMINA STRAIT VOL.	FINAL VOL.	COMMENTS
1	301920E2	SS		500ml	1.0ml	5.0ml	70/44 use 500ml sample vol. for 60 only. add 0.5ml surf. Add 50ml water. Cons. to 5.0ml final volume.
2	301927R2	SS		500ml	1.0ml	5.0ml	
3	301928R2	SS		1000ml	1.0ml	10.0ml	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21	304452	PBLK 98	BLANK	1000ml	1.0ml	10.0ml	Rec 11/29
22	304453	PBLK 99	BLANK	1000ml	1.0ml	10.0ml	Rec 12/12

SUBR 395 1 ML 30412
 SPIKE 4016 100 UL 30313
 AMOUNT LOT
 CHECKED AND VERIFIED 11-29-89 (GC LAB)
 CASE DOME (GC LAB)
 AUTO. COUNTER 718 / ML
 MANUAL COUNTER 716 / 531

ALUMINA BATCH # 11-22-89



COMPOUND LIST NO. - 499

COMPUCHEM # 30193702 DATE IDENTIFIER PESTICIDES (LOW LEVEL WATER) EPA 504 2/88

DIL FACT _____ DRY WT _____ 1.0_SPLIT _____ FINAL VOL _____ /S = 1.0
 AMT SAMPLE _____ CORRECTION FACTOR

COUNTER	COMPUCHEM COMPOUND NUMBER	COMPOUND NAME	RESULTS	DETECTION LIMIT (ug/l)
1.	0701	ALDRIN-----	.20	0.050
2.	0702	ALPHA-BHC-----		0.050
3.	0703	BETA-BHC-----		0.050
4.	0704	GAMMA-BHC-----	.03	0.050
5.	0705	DELTA-BHC-----		0.050
6.	0706	TECHNICAL CHLORDANE-----		0.50
7.	0707	4,4'-DDT-----	.40	0.10
8.	0708	4,4'-DDE-----		0.10
9.	0709	4,4'-DDD-----		0.10
10.	0710	DIELORIN-----	.52	0.10
11.	0711	ENDOSULFAN I -----		0.050
12.	0712	ENDOSULFAN II -----		0.10
13.	0713	ENDOSULFAN SULFATE-----	.52	0.10
14.	0714	ENDRIN-----		0.10
15.	0715	ENDRIN ALDEHYDE-----		0.10
16.	0739	ENDRIN KETONE-----		0.10
17.	0716	HEPTACHLOR-----	.19	0.050
18.	0717	HEPTACHLOR EPOXIDE-----		0.050
19.	0726	METHOXYCHLOR-----		0.50
20.	0724	AROCHLOR 1016-----		0.50
21.	0720	AROCHLOR 1221-----		0.50
22.	0721	AROCHLOR 1232-----		0.50
23.	0718	AROCHLOR 1242-----		0.50
24.	0722	AROCHLOR 1248-----		0.50
25.	0719	AROCHLOR 1254-----		1.0
26.	0723	AROCHLOR 1260-----		1.0
27.	0725	TOXAPHENE-----		1.0

NT
11/29/89

ANALYST'S COMMENTS: