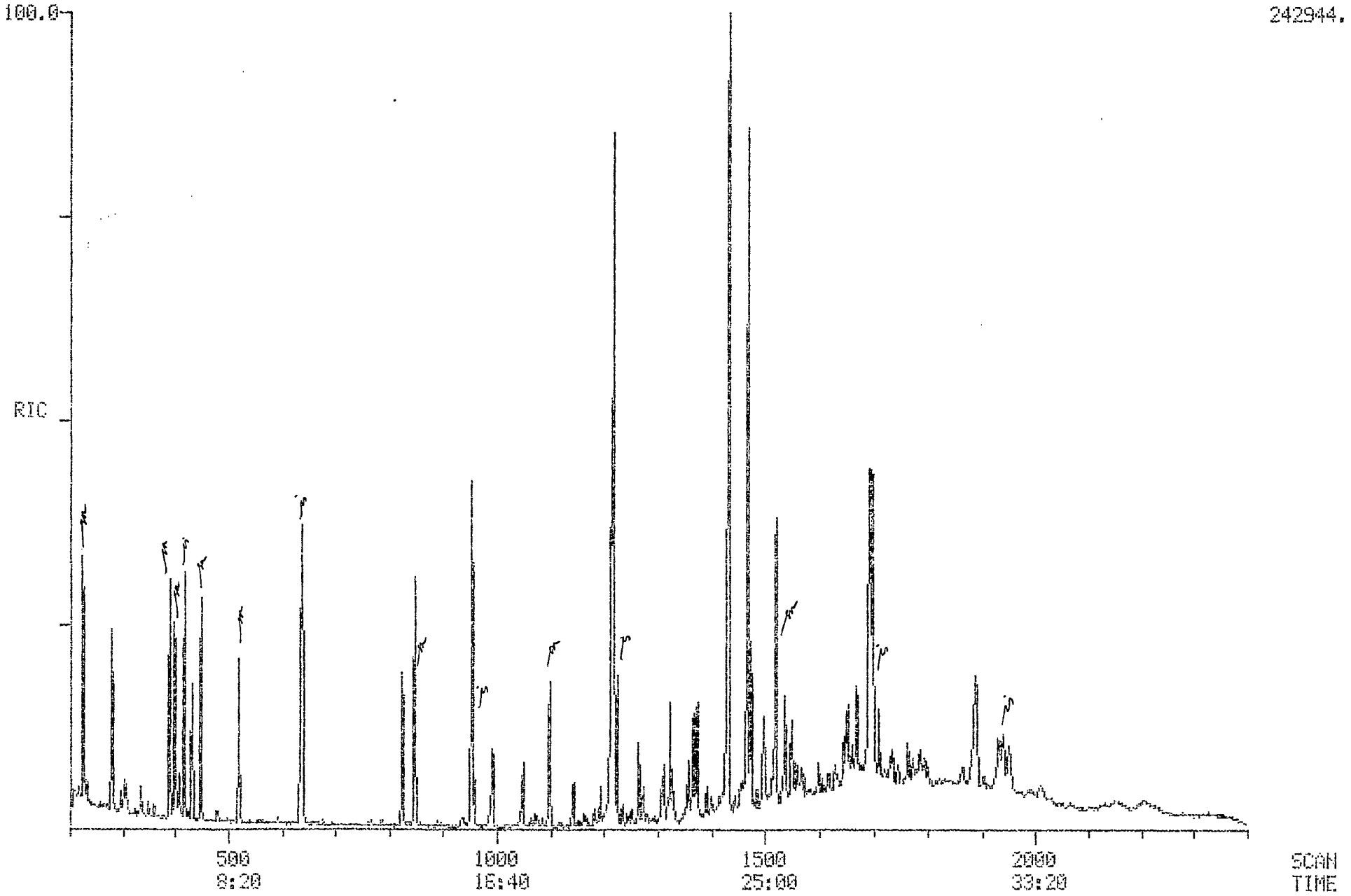
US EPA RECORDS CENTER REGION 5
539638

1183

RIC
12/02/93 19:53:00
SAMPLE: ~~EXQIIRE~~ EXQ11 cg 12-6-93
CONDS.: INST. 001
RANGE: G 1,2400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ11BR #1
CALI: EXQ11BR #3

SCANS 200 TO 2400



Quantitation Report File: EXQ11BR

Data: EXQ11BR.TI
12/02/93 19:53:00
Sample: EXQ11RE
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT.STD.)***
2	CI40 D8-NAPHTHALENE***(INT.STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT.STD.)***
5	CI70 D12-CHRYSENE***(INT.STD.)***
6	CI75 D12-PERYLENE***(INT.STD.)***
7	CS50 2-FLUOROPHENOL***(SURR.STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR.STD.)***
9	CS45 D5-PHENOL***(SURR.STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR.STD)***
11	CS20 D5-NITROBENZENE***(SURR.STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR.STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR.STD.)***
14	CS30 D14-TERPHENYL***(SURR.STD.)***
15	C550 ACENAPHTHENE
16	C565 DIBENZOFURAN
17	C590 FLUORENE
18	C640 PHENANTHRENE
19	C645 ANTHRACENE
20	C646 CARBAZOLE
21	C650 DI-N-BUTYL PHTHALATE
22	C655 FLUORANTHENE
23	C715 PYRENE
24	C720 BUTYL BENZYL PHTHALATE
25	C730 BENZO(A) ANTHRACENE
26	C745 BIS(2-ETHYLHEXYL) PHTHALATE
27	C740 CHRYSENE
28	C765 BENZO(B) FLUORANTHENE
29	C775 BENZO(A) PYRENE
30	C780 INDENO(1,2,3-CD) PYRENE
31	C790 BENZO(GHI) PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	417	6:57	1	1.000	A BB	36544.	40.000	NG/UL	3.16
2	136	639	10:39	2	1.000	A BB	128638.	40.000	NG/UL	3.16
3	164	954	15:54	3	1.000	A BB	74189.	40.000	NG/UL	3.16
4	188	1213	20:13	4	1.000	A BV	110915.	40.000	NG/UL	3.16
5	240	1696	28:16	5	1.000	A BB	75082.	40.000	NG/UL	3.16
6	264	1951	32:31	6	1.000	A BB	28819.	40.000	NG/UL	3.16
7	112	224	3:44	1	0.537	A BB	62580.	52.669	NG/UL	4.16
8	132	389	6:29	1	0.933	A BB	55666.	52.857	NG/UL	4.17
9	99	399	6:39	1	0.957	A BB	79912.	52.923	NG/UL	4.18
10	152	448	7:28	1	1.074	A BB	29326.	38.222	NG/UL	3.02
11	82	520	8:40	2	0.814	A BB	47906.	37.530	NG/UL	2.96
12	172	848	14:08	3	0.889	A BB	84631.	39.333	NG/UL	3.10

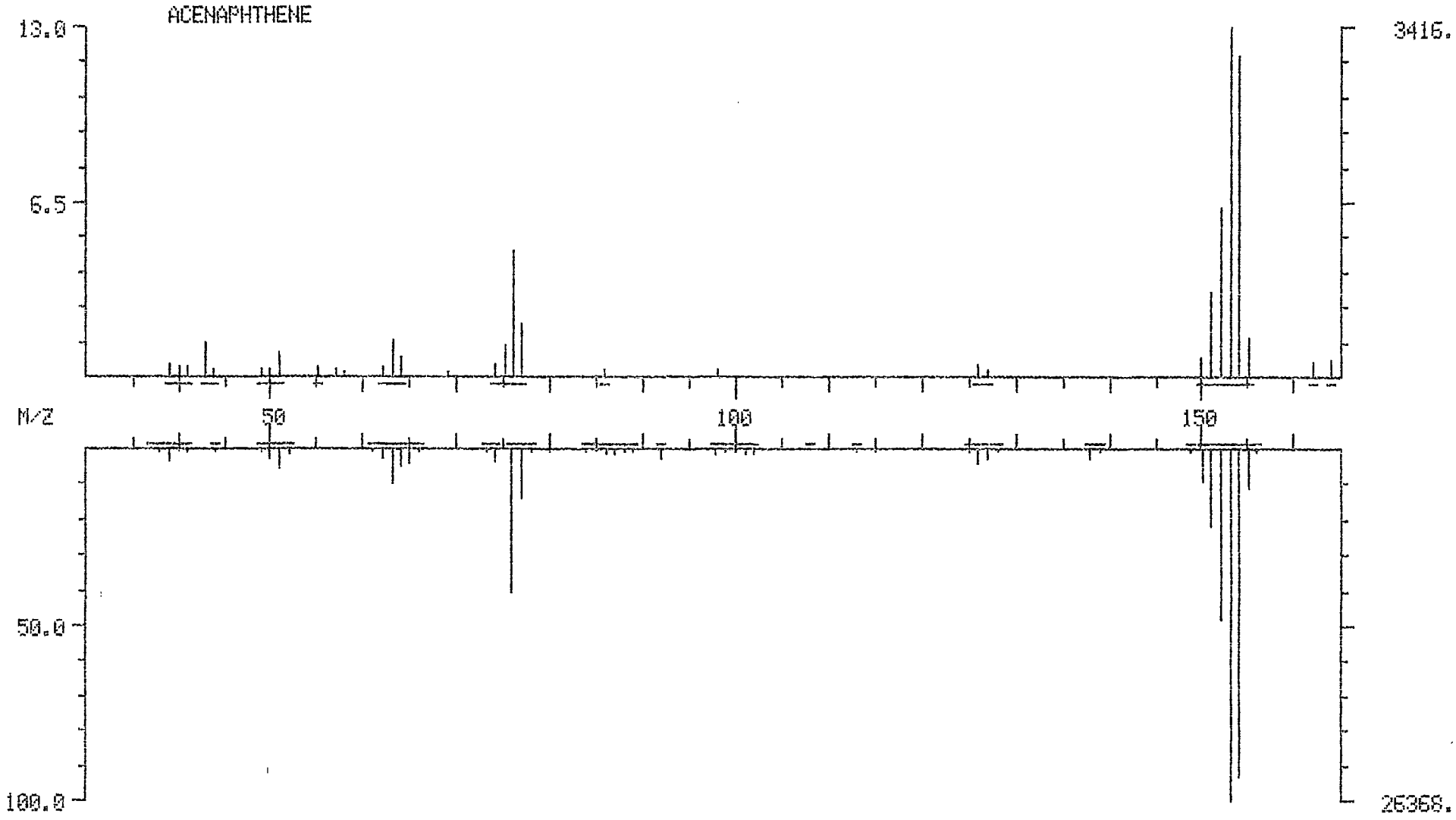
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
13	330	1098	18:18	3	1.151	A BB	20195.	56.399	NG/UL	4.45
14	244	1521	25:21	5	0.897	A BB	84808.	54.732	NG/UL	4.32
15	153	959	15:59	3	1.005	A BV	11144.	5.605	NG/UL	0.44
16	168	988	16:28	3	1.036	A BB	9846.	3.401	NG/UL	0.27
17	166	1049	17:29	3	1.100	A BB	16838.	7.755	NG/UL	0.61
18	178	1218	20:18	4	1.004	A BV	257061.	84.062	NG/UL	6.63
19	178	1224	20:24	4	1.009	M XX	43922.	15.817	NG/UL	1.25
20	167	1264	21:04	4	1.042	A VB	33274.	12.097	NG/UL	0.95
21	149	1367	22:47	4	1.127	A BB	5156.	1.107	NG/UL	0.09
22	202	1433	23:53	4	1.181	A BB	353286.	116.319	NG/UL	9.18
23	202	1469	24:29	5	0.866	A BB	275521.	136.334	NG/UL	10.76
24	149	1633	27:13	5	0.963	A BB	1291.	0.944	NG/ML	0.07
25	228	1693	28:13	5	0.998	A BV	96097.	45.154	NG/UL	3.56
26	149	1763	29:23	5	1.040	A BB	10849.	5.036	NG/UL	0.40
27	228	1700	28:20	5	1.002	A VB	81832.	58.196	NG/UL	4.59
28	252	1889	31:29	6	0.968	A BB	84693.	60.993	NG/UL	4.81
29	252	1941	32:21	6	0.995	A VB	30530.	31.944	NG/UL	2.52
30	276	2153	35:53	6	1.104	M XX	15488.	33.143	NG/UL	2.61
31	276	2203	36:43	6	1.129	M XX	11834.	24.862	NG/UL	1.96

DUAL MASS SPECTRUM
12/02/93 19:53:00 + 15:59
SECOND SPECTRUM
SAMPLE: EXQ11RE08 12-6-93
CONDS.: INST. 001

DATA: EXQ11BR #959
CALI: EXQ11BR #3
DATA: 50BA1202 #957

BASE M/Z: 153/ 153
RIC: 14415./ 108415.

1186

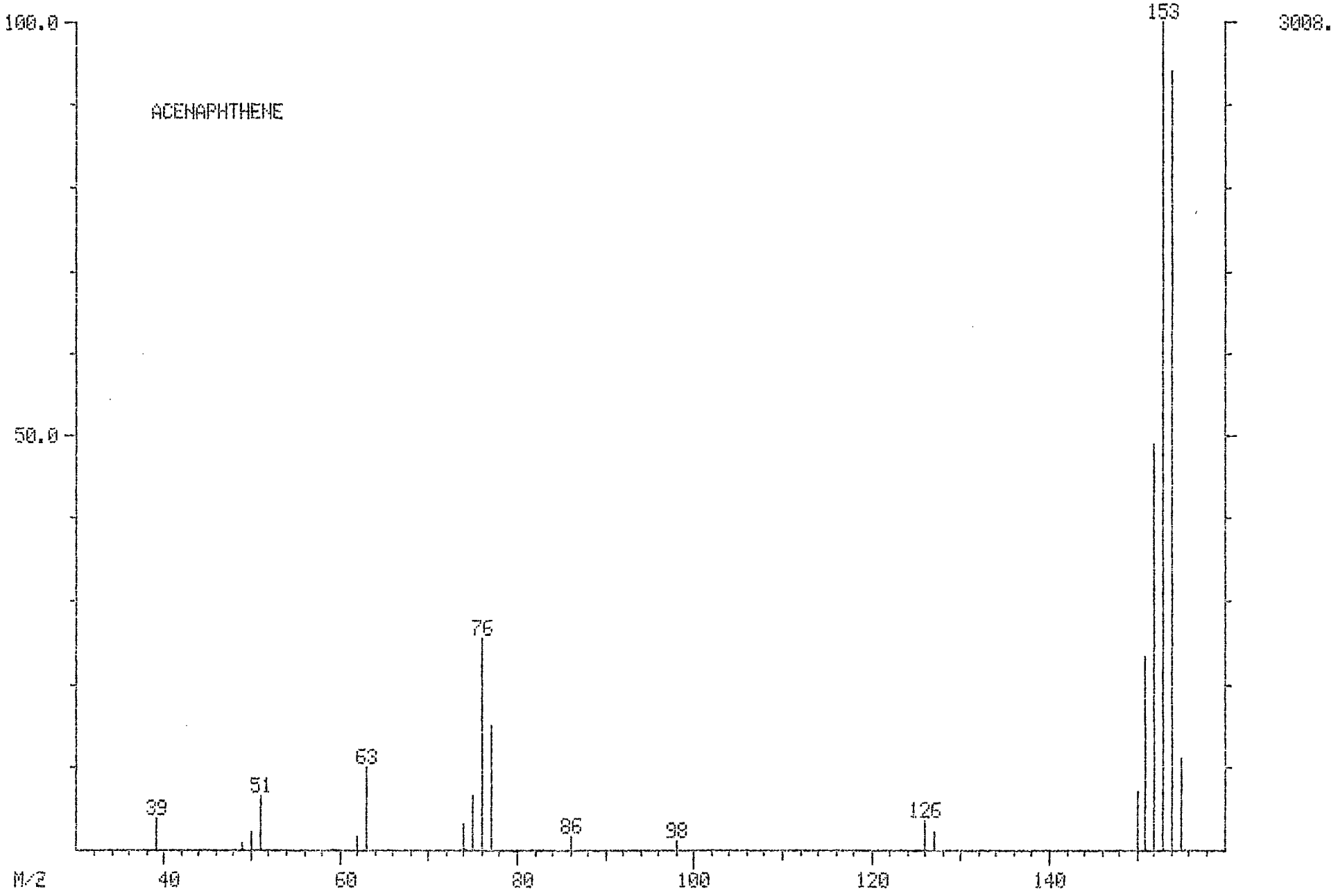


MASS SPECTRUM
12/02/93 19:53:00 + 15:59
SAMPLE: EXQ11BR cs 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #959
CALI: EXQ11BR #3

BASE M/Z: 153
RIC: 11088.

1187

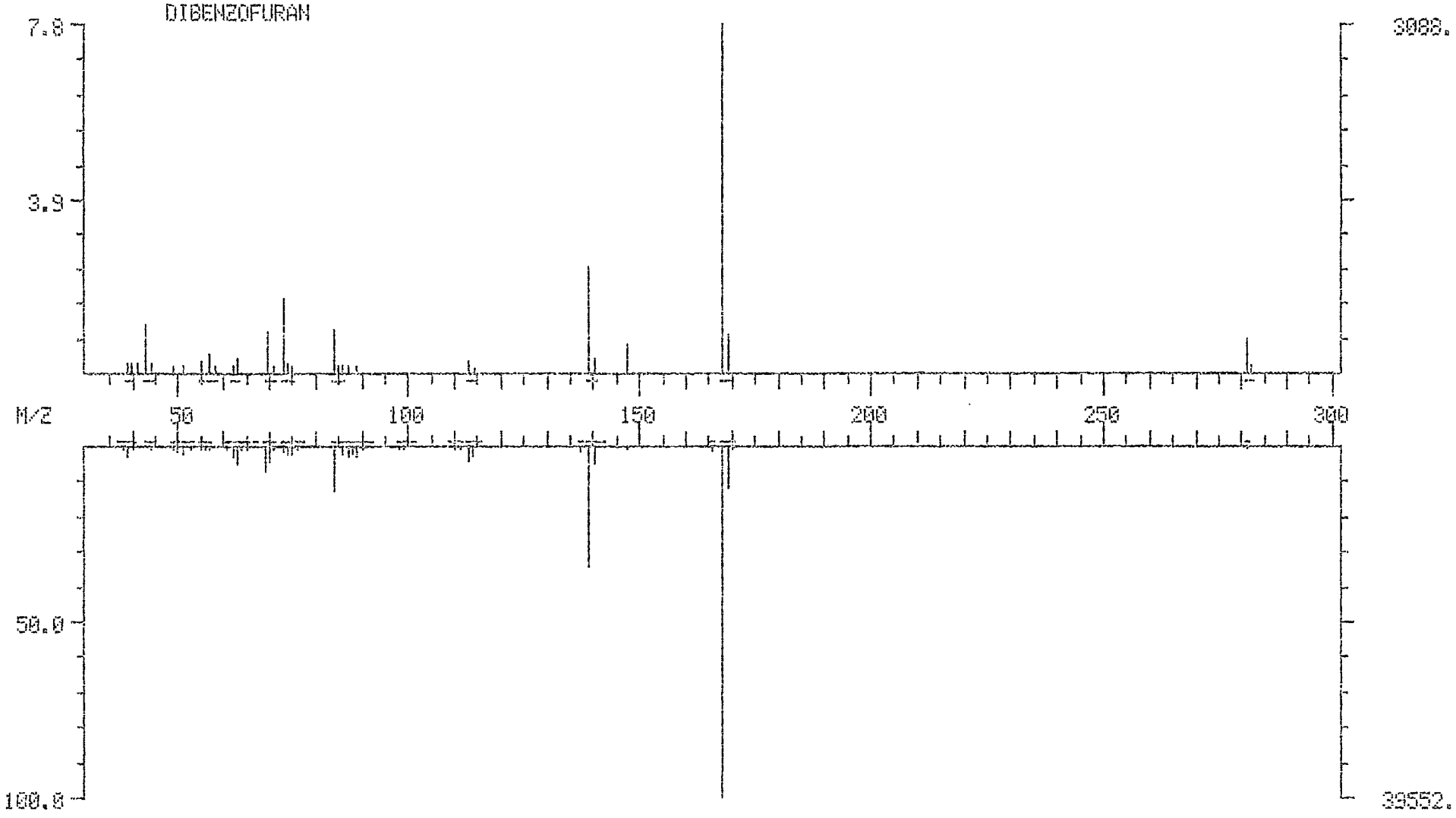


DUAL MASS SPECTRUM
12/02/93 19:53:00 + 16:28
SECOND SPECTRUM
SAMPLE: EX011BR cg 12-6-93
CONDS.: INST. 001

DATA: EX011BR #988
CALI: EX011BR #9
DATA: 50BA1202 #987

BASE M/Z: 168/ 168
RIC: 8831./ 91263.

1198

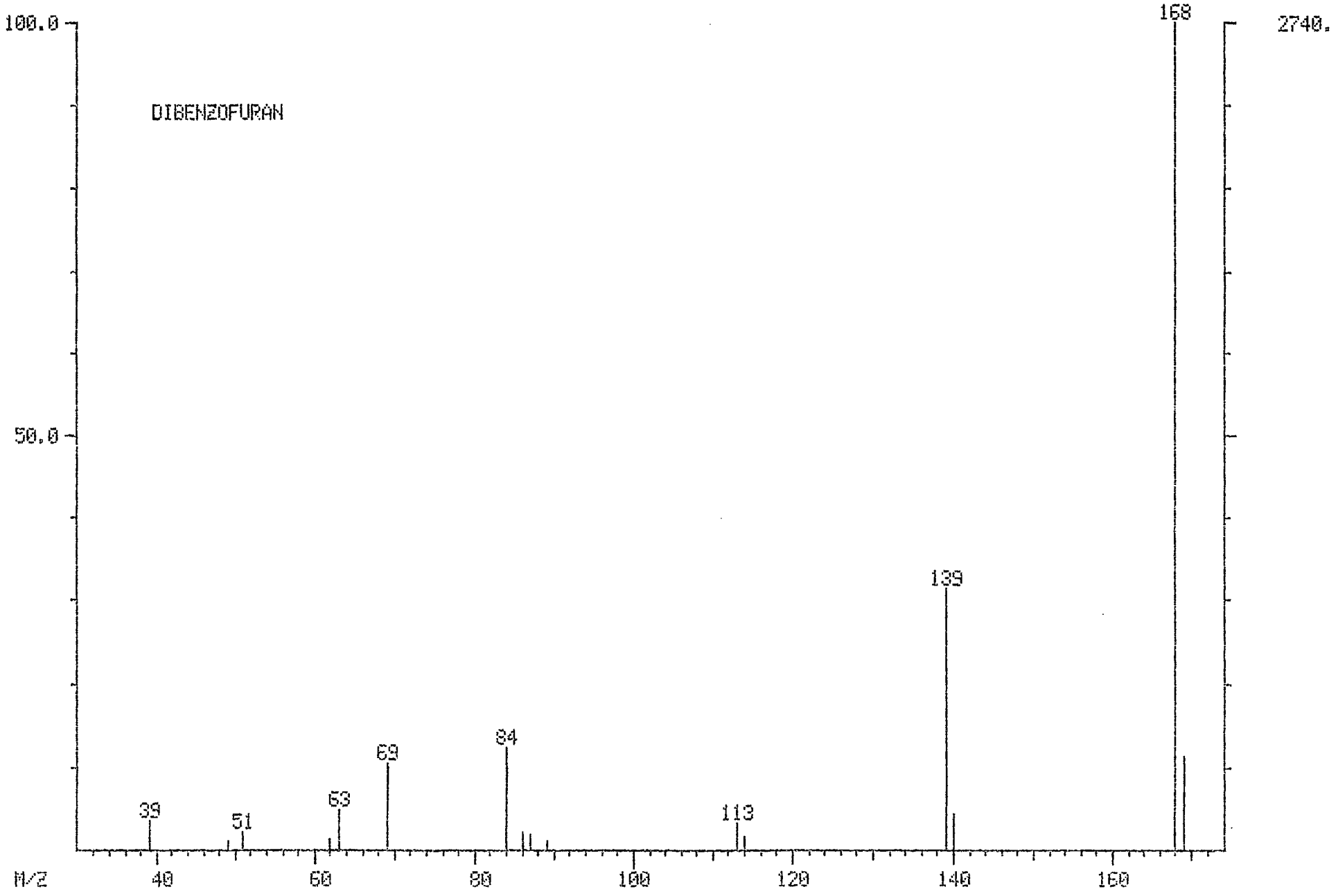


1189

MASS SPECTRUM
12/02/93 19:53:00 + 16:28
SAMPLE: EXQ11RE cg 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #988
CALI: EXQ11BR #3

BASE M/Z: 168
RIC: 5272.

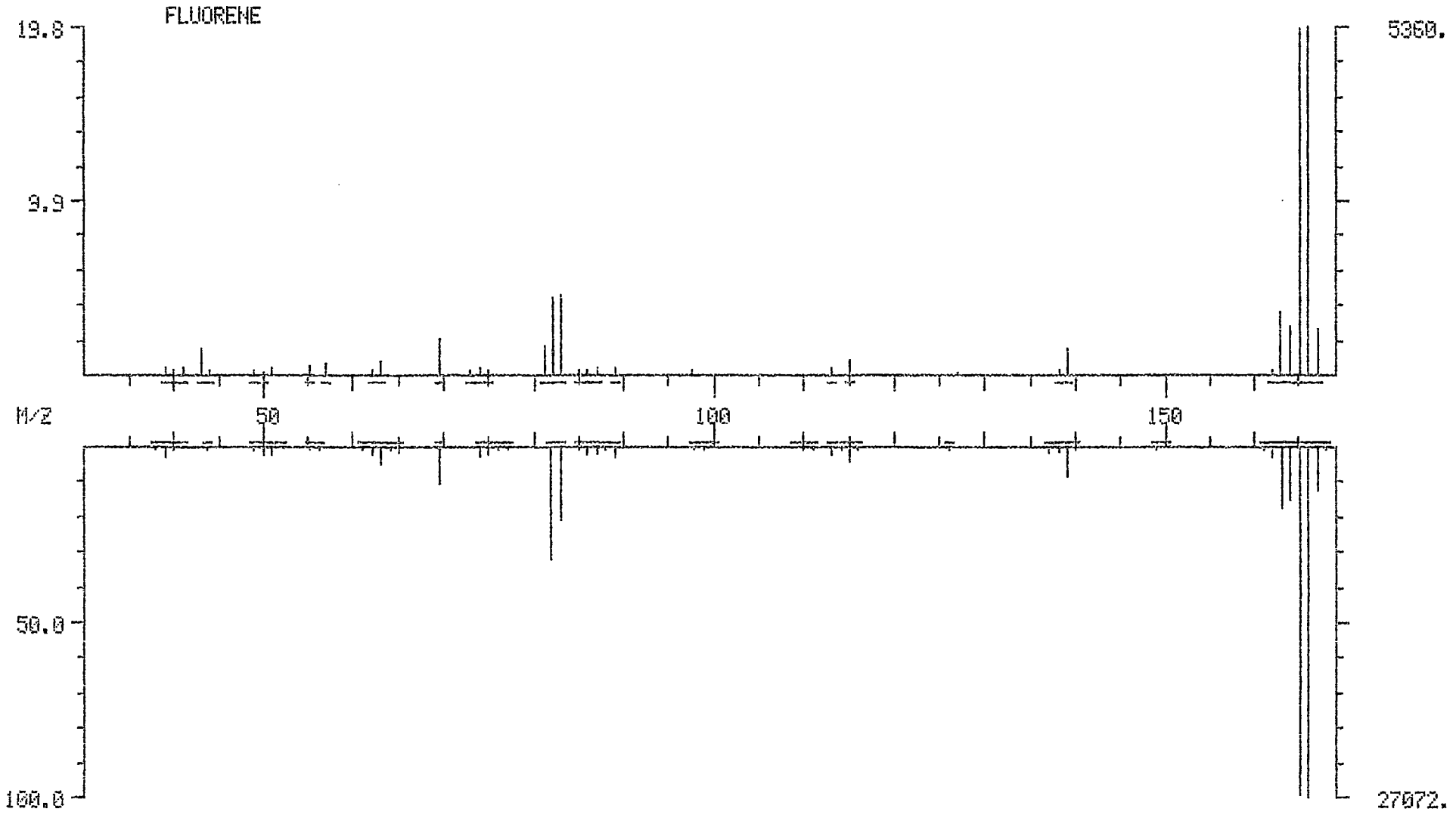


DUAL MASS SPECTRUM
12/02/93 19:53:00 + 17:29
SECOND SPECTRUM
SAMPLE: EXQ11BR cp 12-6-93
CONDS.: INST. 001

DATA: EXQ11BR #1049
CALI: EXQ11BR #3
DATA: 50BA1202 #1048

BASE M/Z: 166/ 166
RIC: 19903./ 100863.

1190

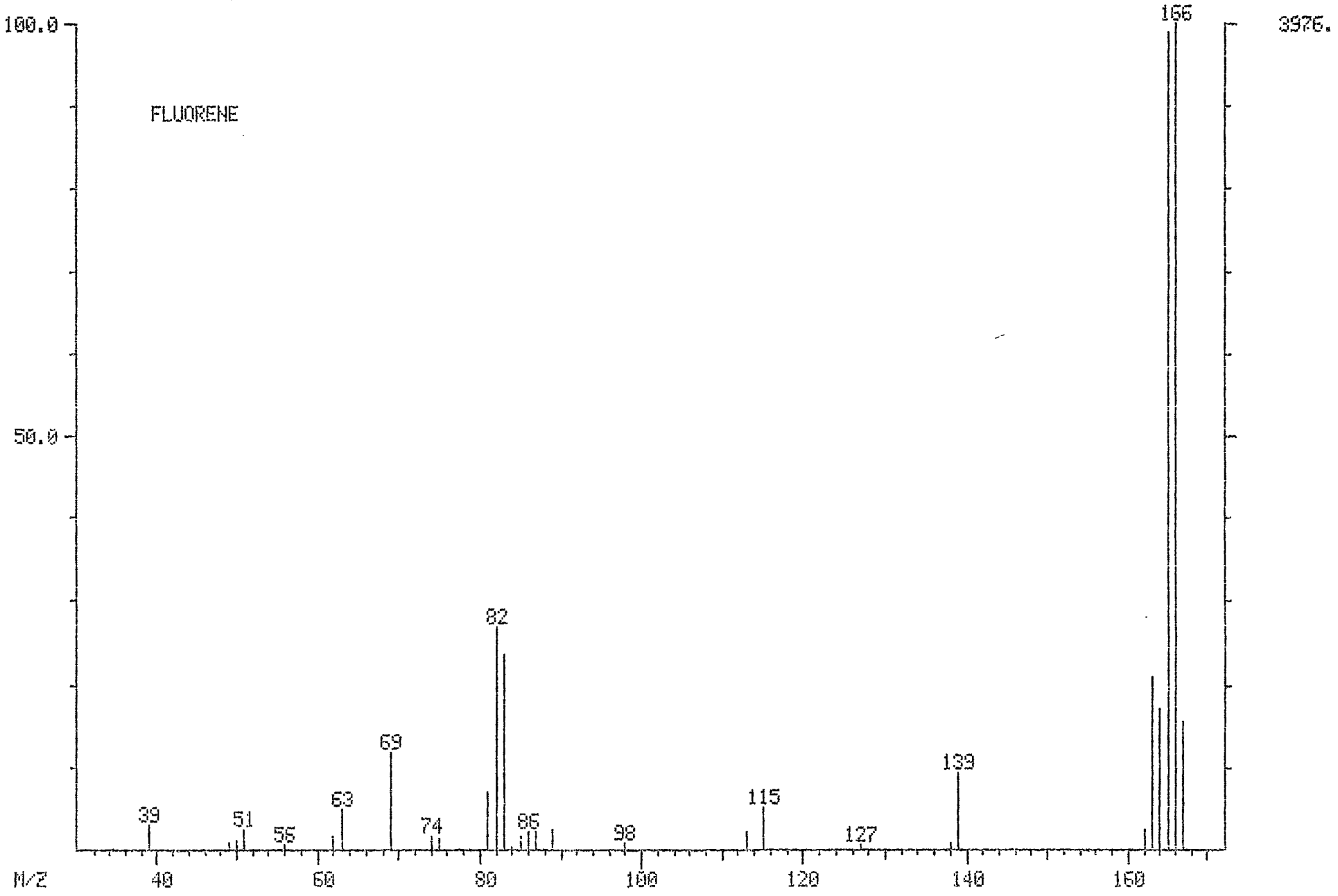


MASS SPECTRUM
12/02/93 19:53:00 + 17:29
SAMPLE: EXQ11BR cs 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1049
CALI: EXQ11BR #3

BASE M/Z: 166
RIC: 14720.

1191



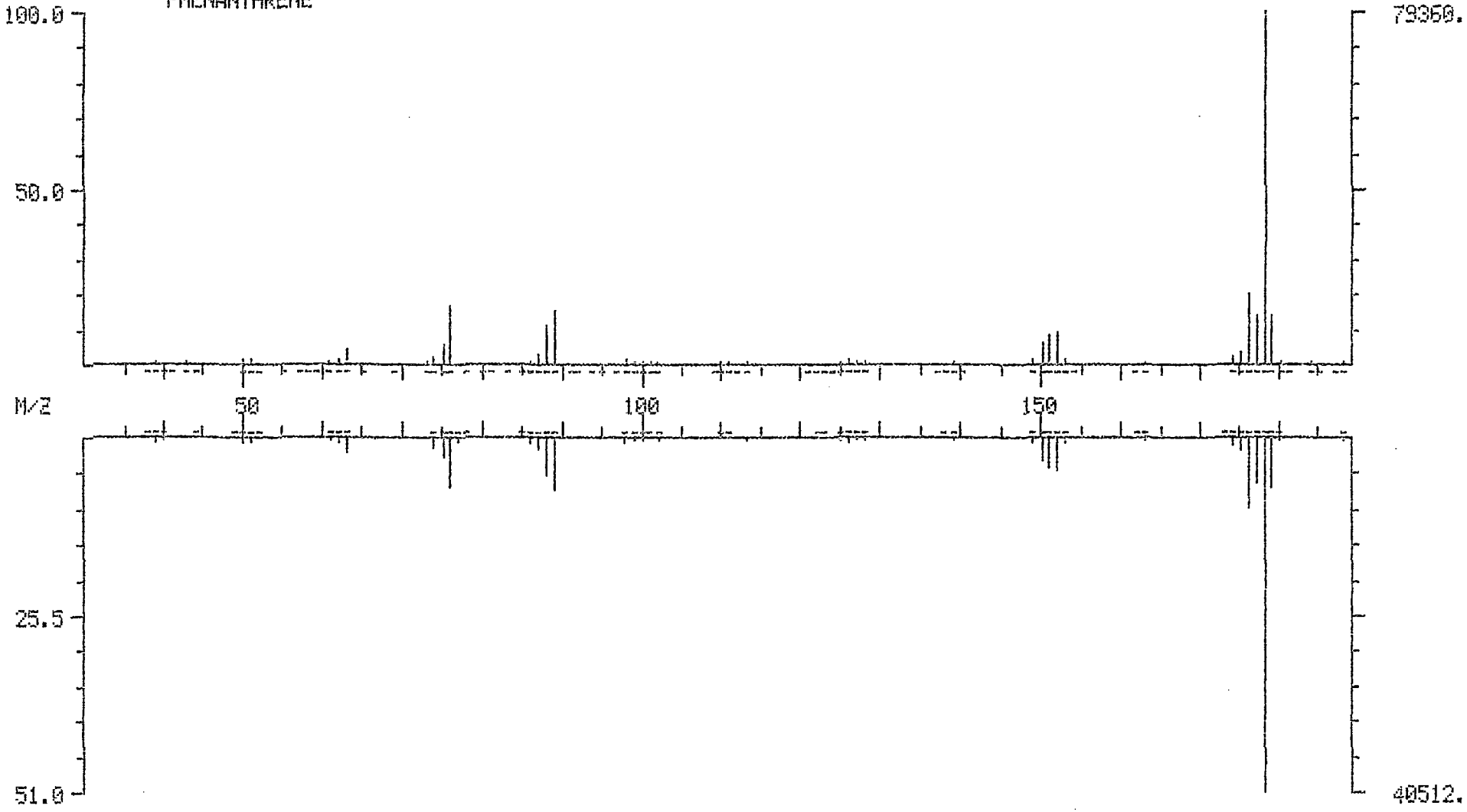
DUAL MASS SPECTRUM
12/02/93 19:53:00 + 20:18
SECOND SPECTRUM
SAMPLE: EXQ11BR cs 12-6-93
CONDS.: INST. 001

DATA: EXQ11BR #1218
CALI: EXQ11BR #3
DATA: 50BA1202 #1214

BASE M/Z: 178/ 178
RIC: 207615./ 102271.

1192

PHENANTHRENE

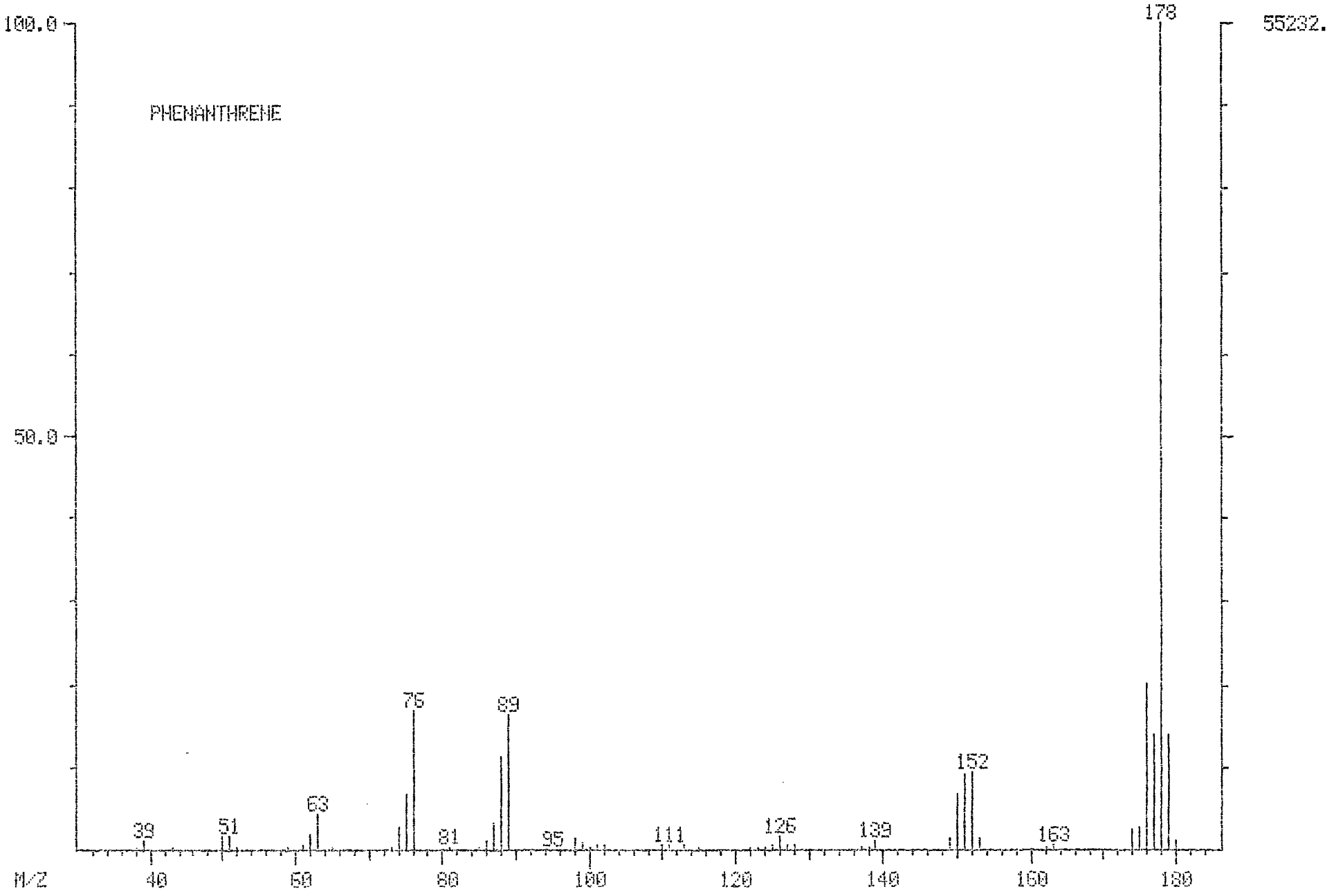


MASS SPECTRUM
12/02/93 19:53:00 + 20:18
SAMPLE: EXQ11~~RE~~ CS (12-6-93)
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1218
CALI: EXQ11BR #3

BASE M/Z: 178
RIC: 147456.

1193

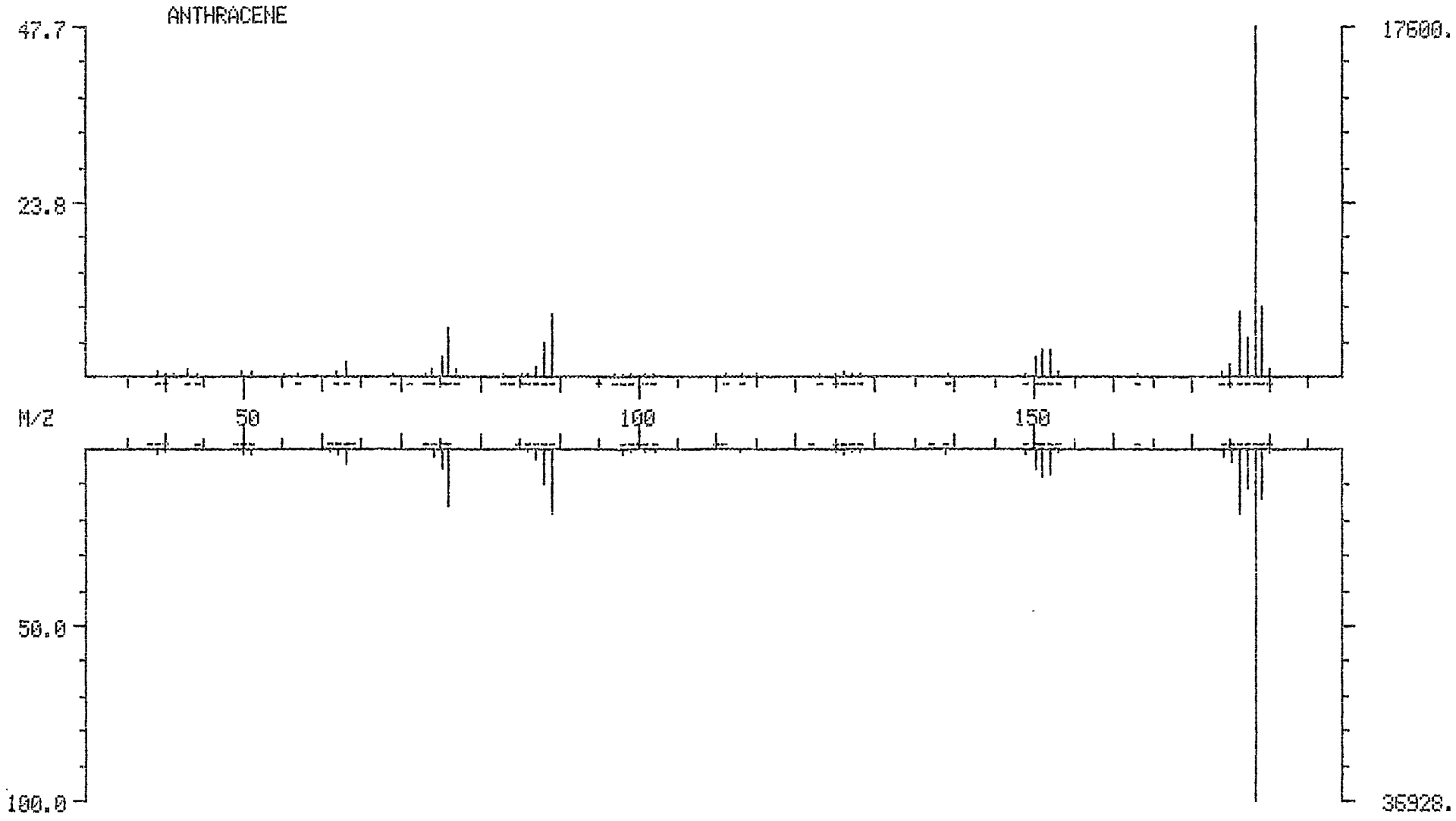


DUAL MASS SPECTRUM
12/02/93 19:53:00 + 20:24
SECOND SPECTRUM
SAMPLE: EXQ11RE aj 12-6-93
CONDS.: INST. 001

DATA: EXQ11BR #1224
CALI: EXQ11BR #3
DATA: 50BA1202 #1222

BASE M/Z: 178/ 178
RIC: 46207./ 92287.

1194

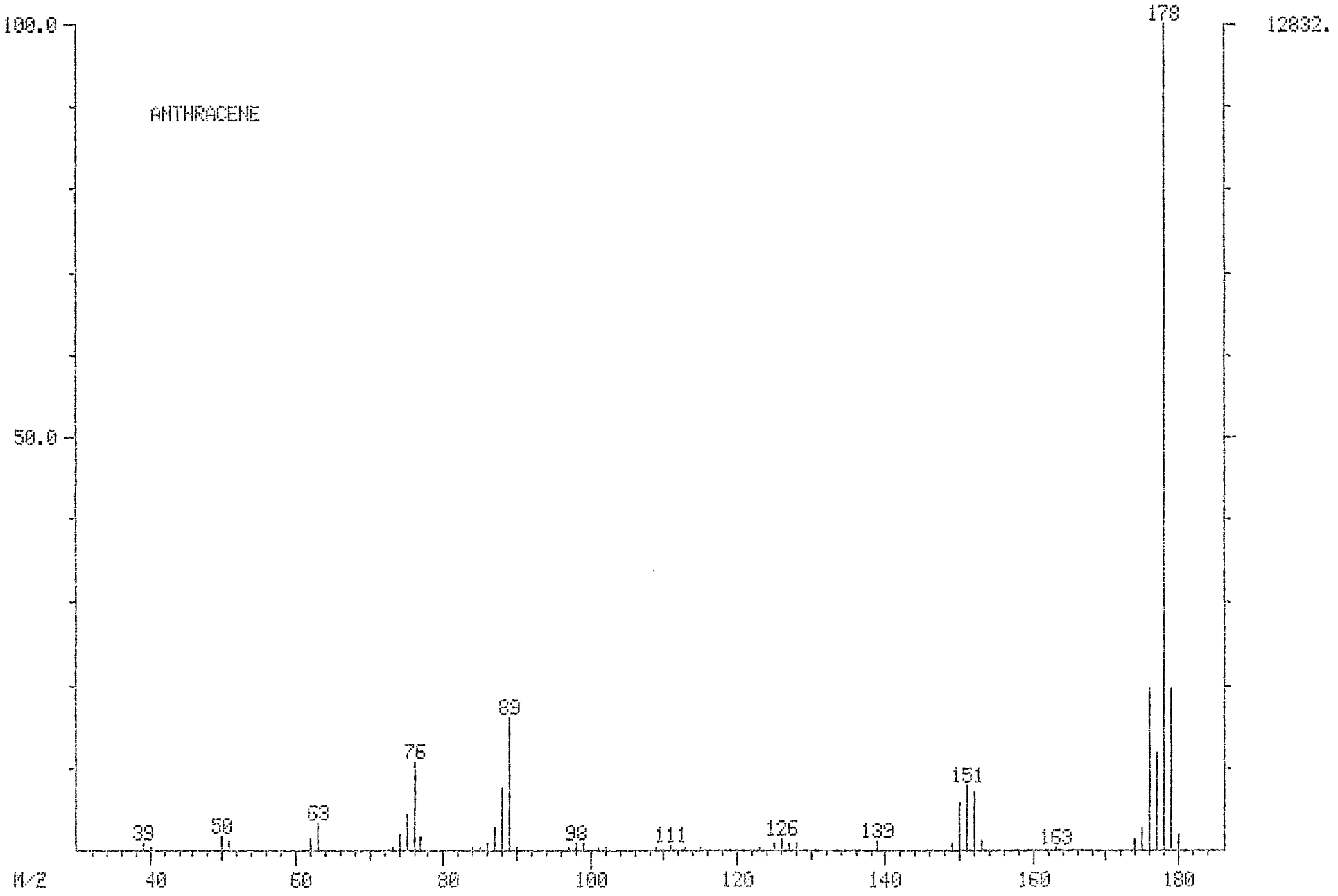


MASS SPECTRUM
12/02/93 19:53:00 + 20:24
SAMPLE: EX011BR cs 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EX011BR #1224
CALI: EX011BR #3

BASE M/Z: 178
RIC: 31168.

1195

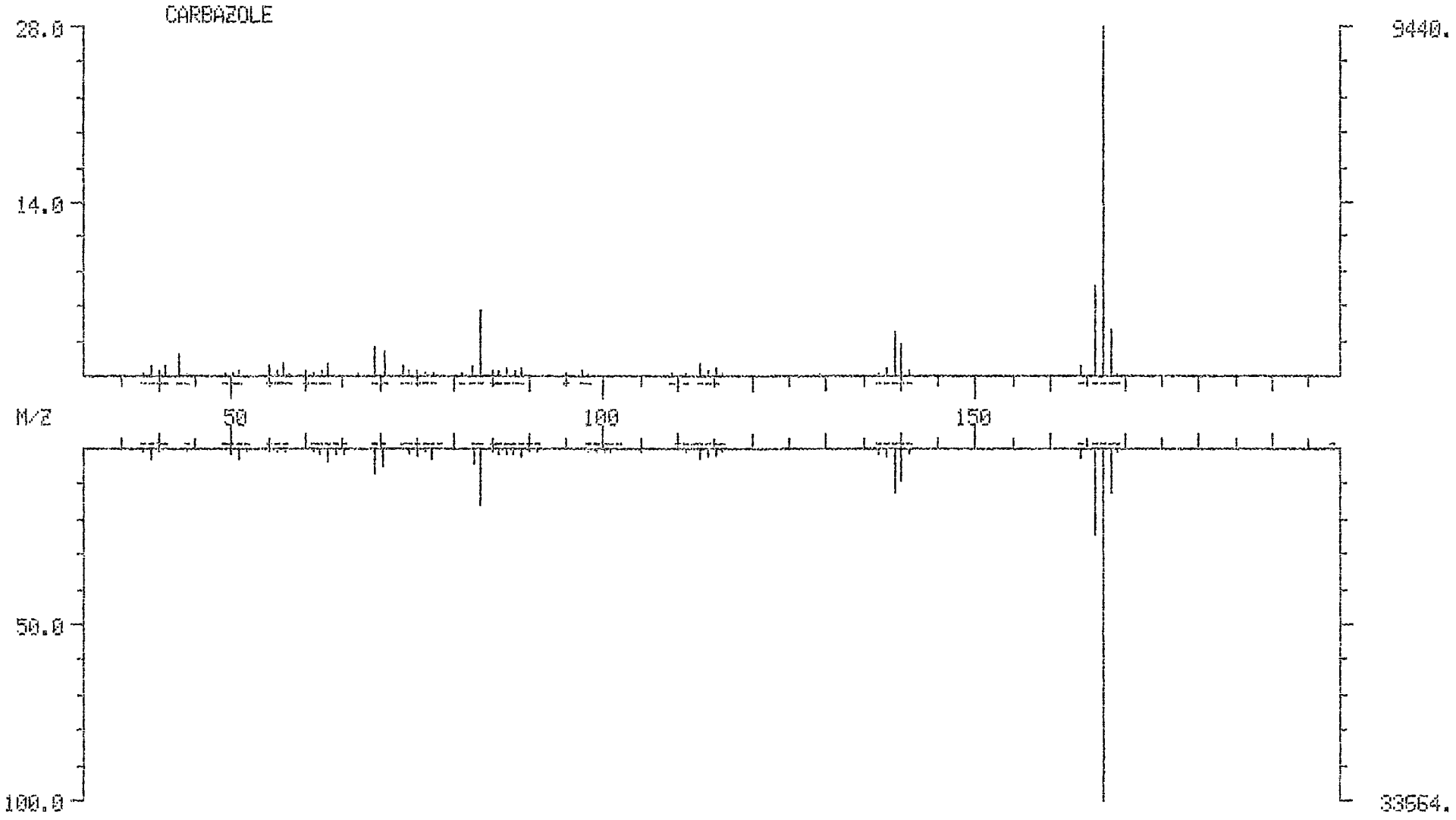


DUAL MASS SPECTRUM
12/02/93 19:53:00 + 21:04
SECOND SPECTRUM
SAMPLE: EX011BR as 12-6-93
CONDS.: INST. 001

DATA: EX011BR #1264
CALI: EX011BR #3
DATA: 50BA1202 #1262

BASE M/Z: 167/ 167
RIC: 25151./ 82943.

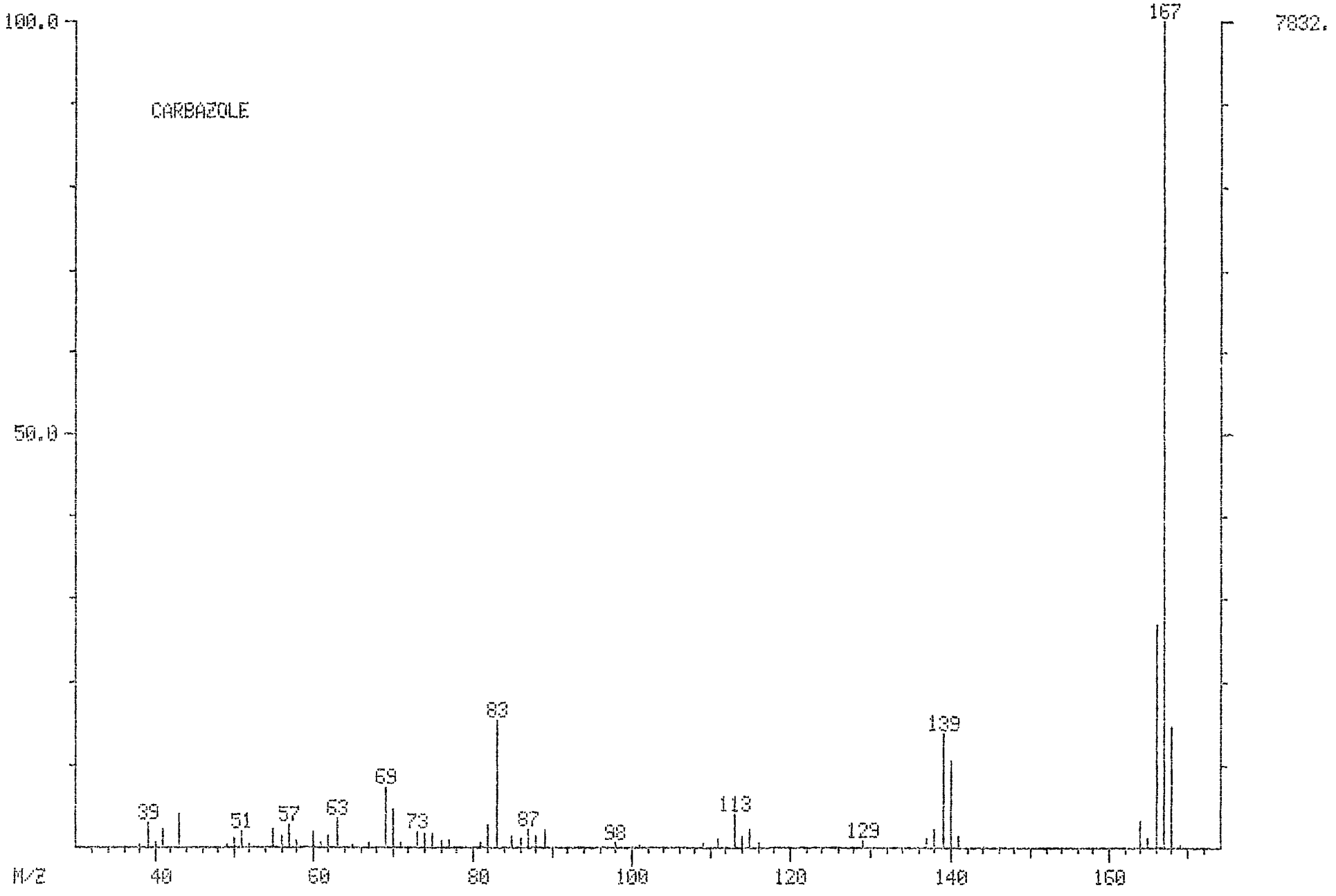
1196



MASS SPECTRUM
12/02/93 19:53:00 + 21:04
SAMPLE: EX011RE cg 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EX011BR #1264
CALI: EX011BR #3

BASE M/Z: 167
RIC: 20448.



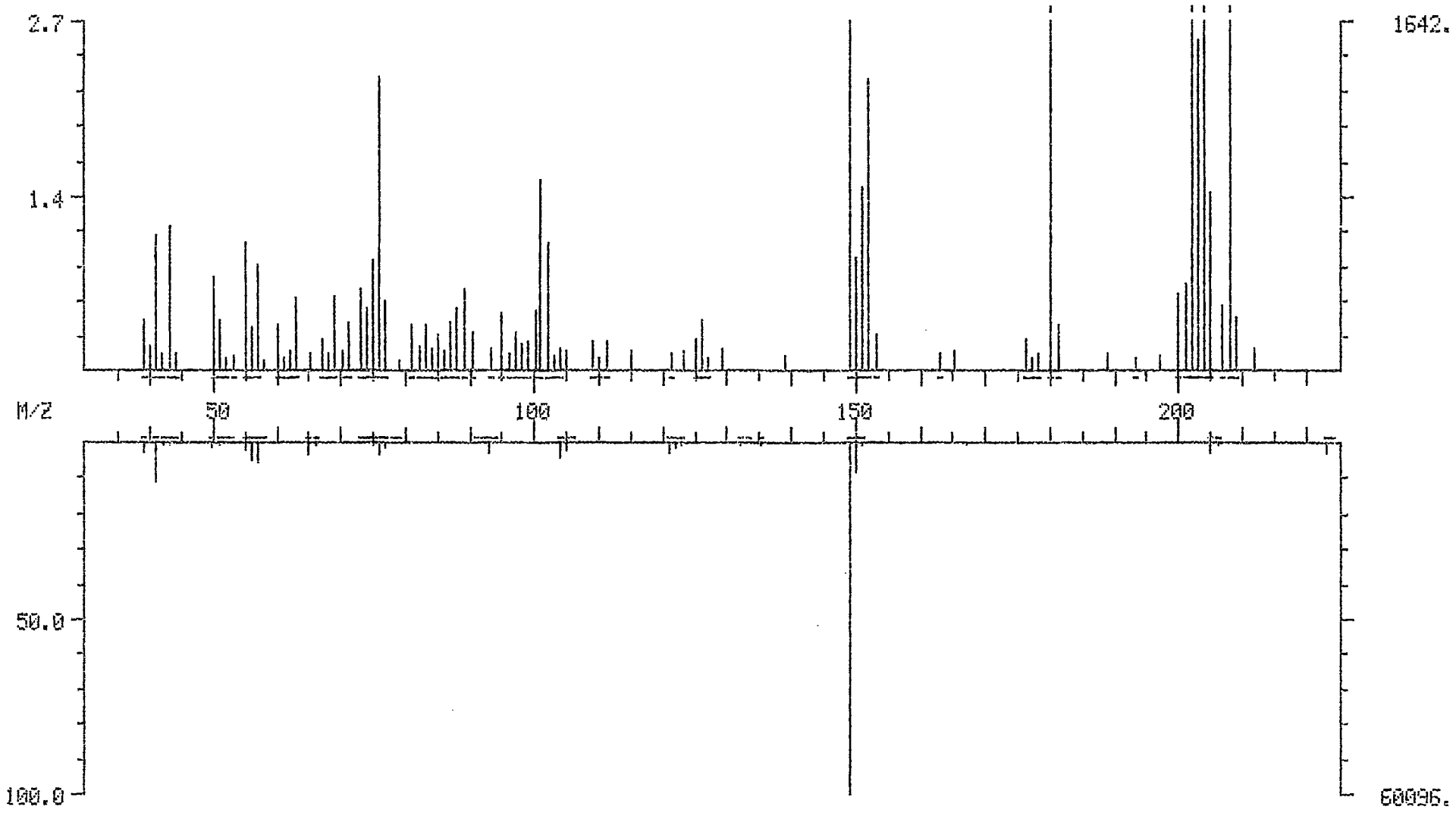
DUAL MASS SPECTRUM
12/02/93 19:53:00 + 22:47
SECOND SPECTRUM
SAMPLE: EXQ11RE cg 12-6-93
CONDS.: INST. 001

DATA: EXQ11BR #1367
CALI: EXQ11BR #3
DATA: 50BA1202 #1365

BASE M/Z: 204/ 149
RIC: 34623./ 104063.

1198

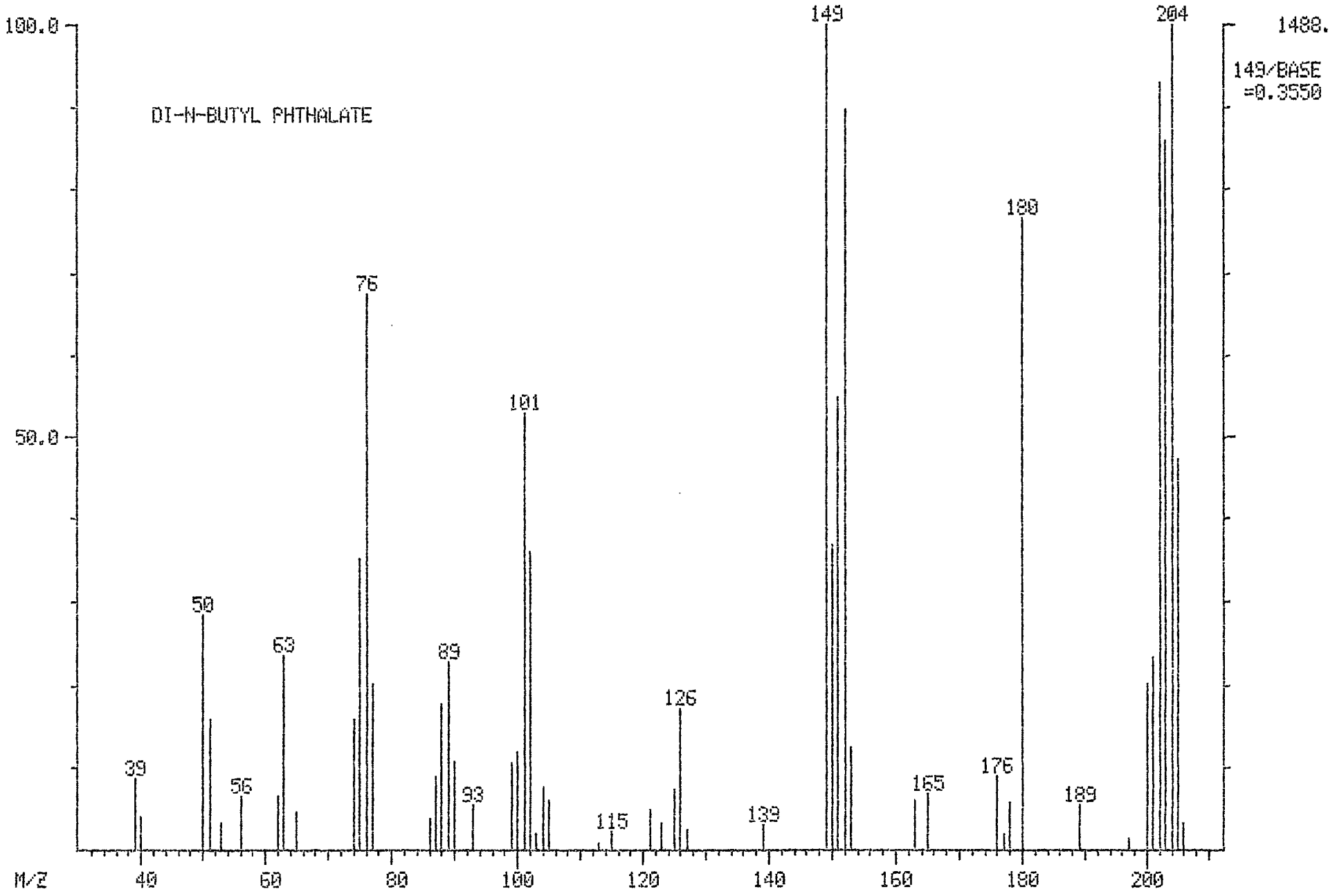
DI-N-BUTYL PHTHALATE



MASS SPECTRUM
12/02/93 19:53:00 + 22:47
SAMPLE: EXQ11BR cg 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1367
CALI: EXQ11BR #3

BASE M/Z: 204
RIC: 21440.



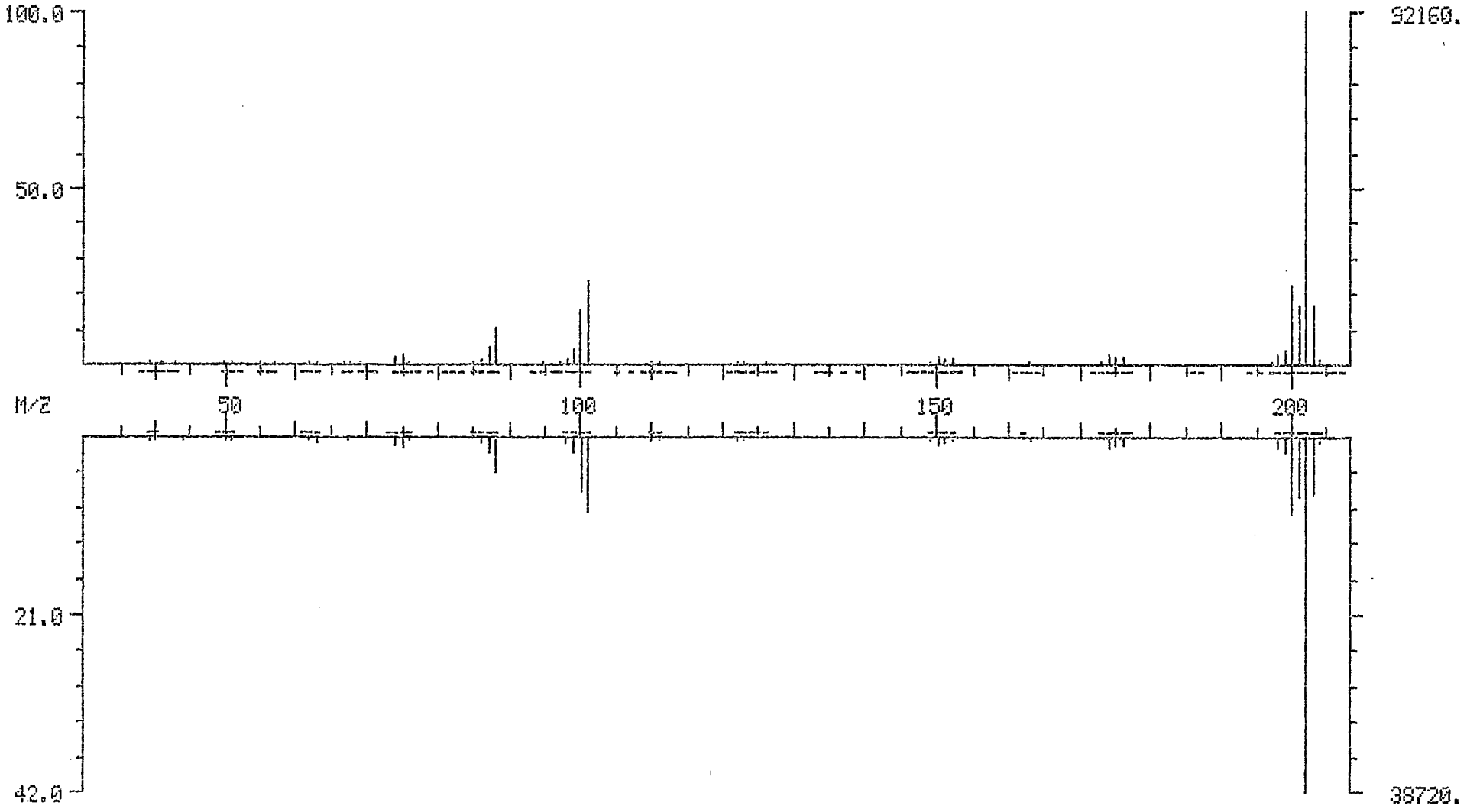
DUAL MASS SPECTRUM
12/02/93 19:53:00 + 23:53
SECOND SPECTRUM
SAMPLE: EXQ11RE CS 12-6-93
CONDS.: INST. 001

DATA: EXQ11BR #1433
CALI: EXQ11BR #3
DATA: 50BA1202 #1427

BASE M/Z: 202/ 202
RIC: 242943./ 95487.

1200

FLUORANTHENE

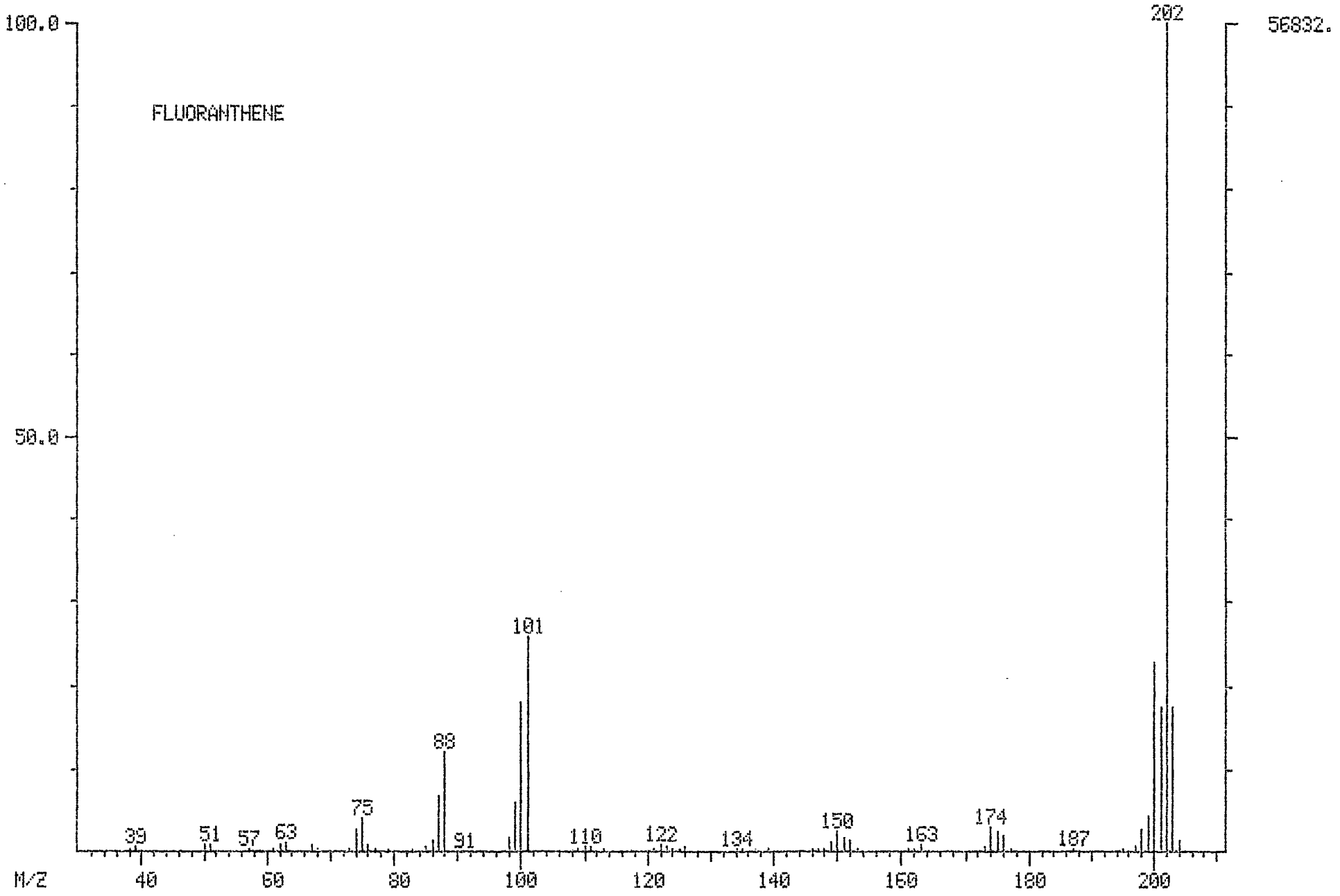


MASS SPECTRUM
12/02/93 19:53:00 + 23:53
SAMPLE: EXQ11BE a8 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1433
CALI: EXQ11BR #3

BASE M/Z: 202
RIC: 157952.

1201



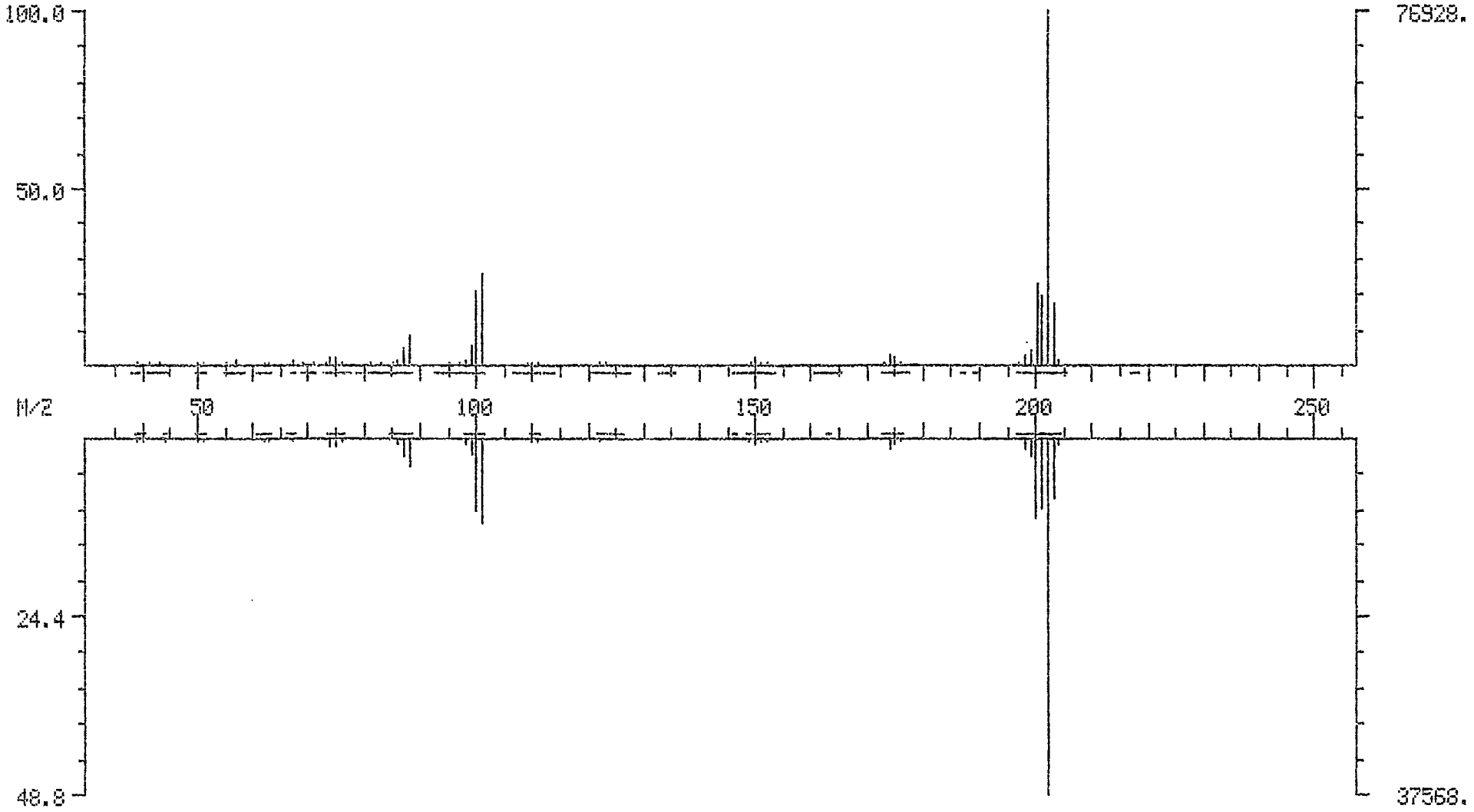
DUAL MASS SPECTRUM
12/02/93 19:53:00 + 24:29
SECOND SPECTRUM
SAMPLE: EXQ11RE C8 12-6-93
CONDS.: INST. 001

DATA: EXQ11BR #1469
CALI: EXQ11BR #3
DATA: 50BA1202 #1463

BASE M/Z: 202/ 202
RIC: 210175./ 94719.

1202

PYRENE

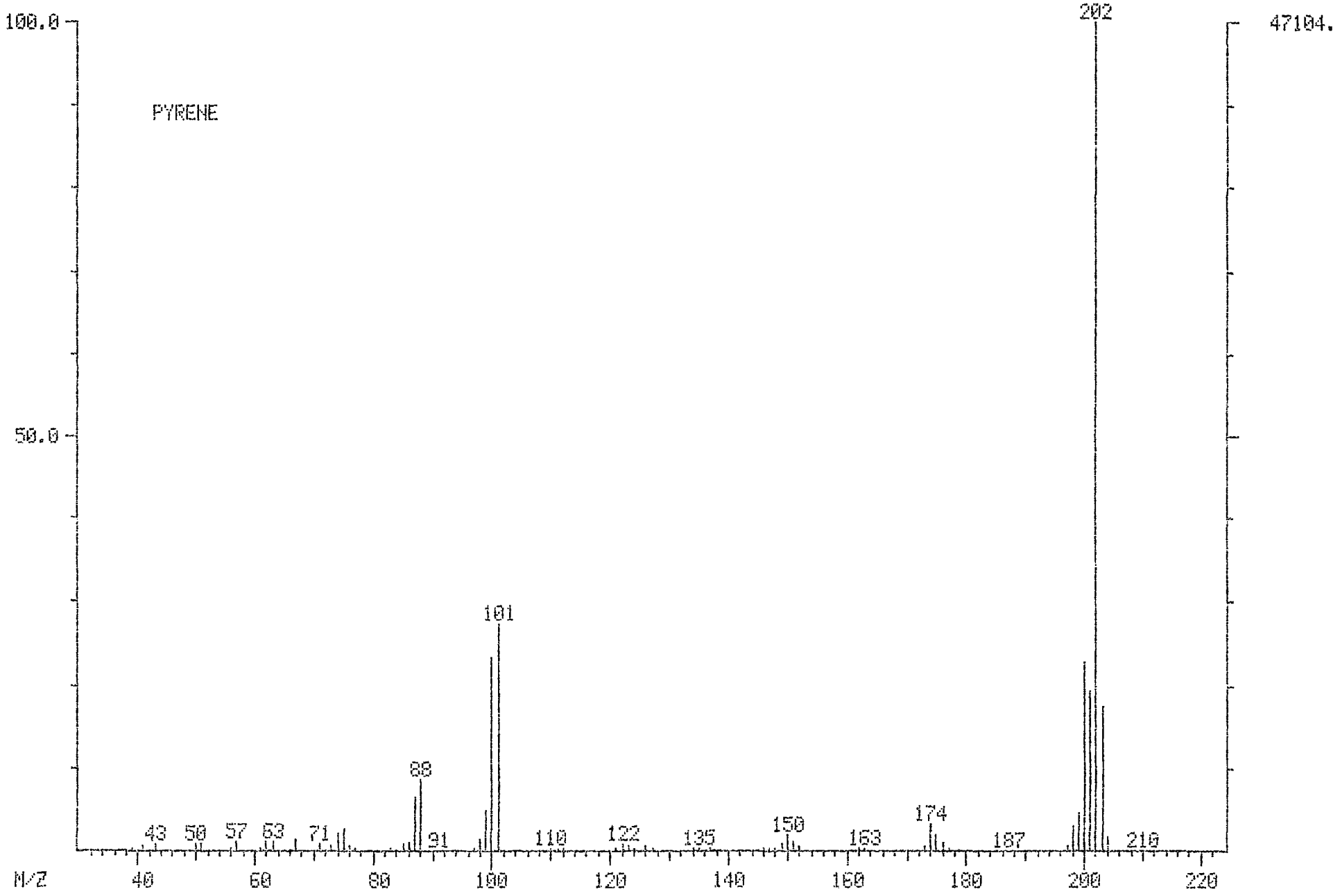


1203

MASS SPECTRUM
12/02/93 19:53:00 + 24:29
SAMPLE: EXQ11RE CS (2-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1469
CALI: EXQ11BR #3

BASE M/Z: 202
RIC: 129920.



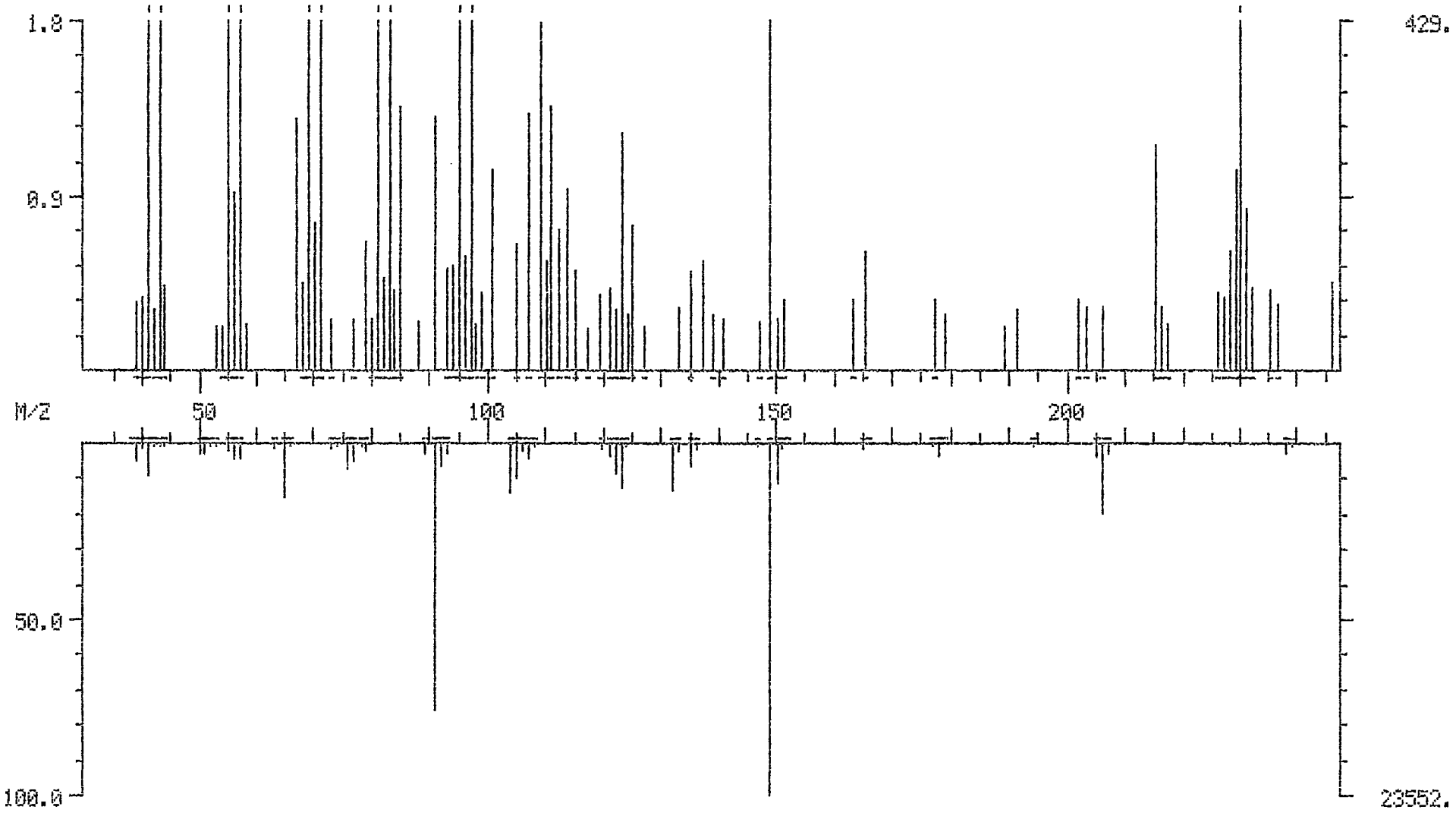
DUAL MASS SPECTRUM
12/02/93 19:53:00 + 27:13
SECOND SPECTRUM
SAMPLE: EXQ11BE cs 12-6-93
CONDS.: INST. 001

DATA: EXQ11BR #1633
CALI: EXQ11BR #3
DATA: 50BA1202 #1631

BASE M/Z: 55/ 149
RIC: 16543./ 90111.

1204

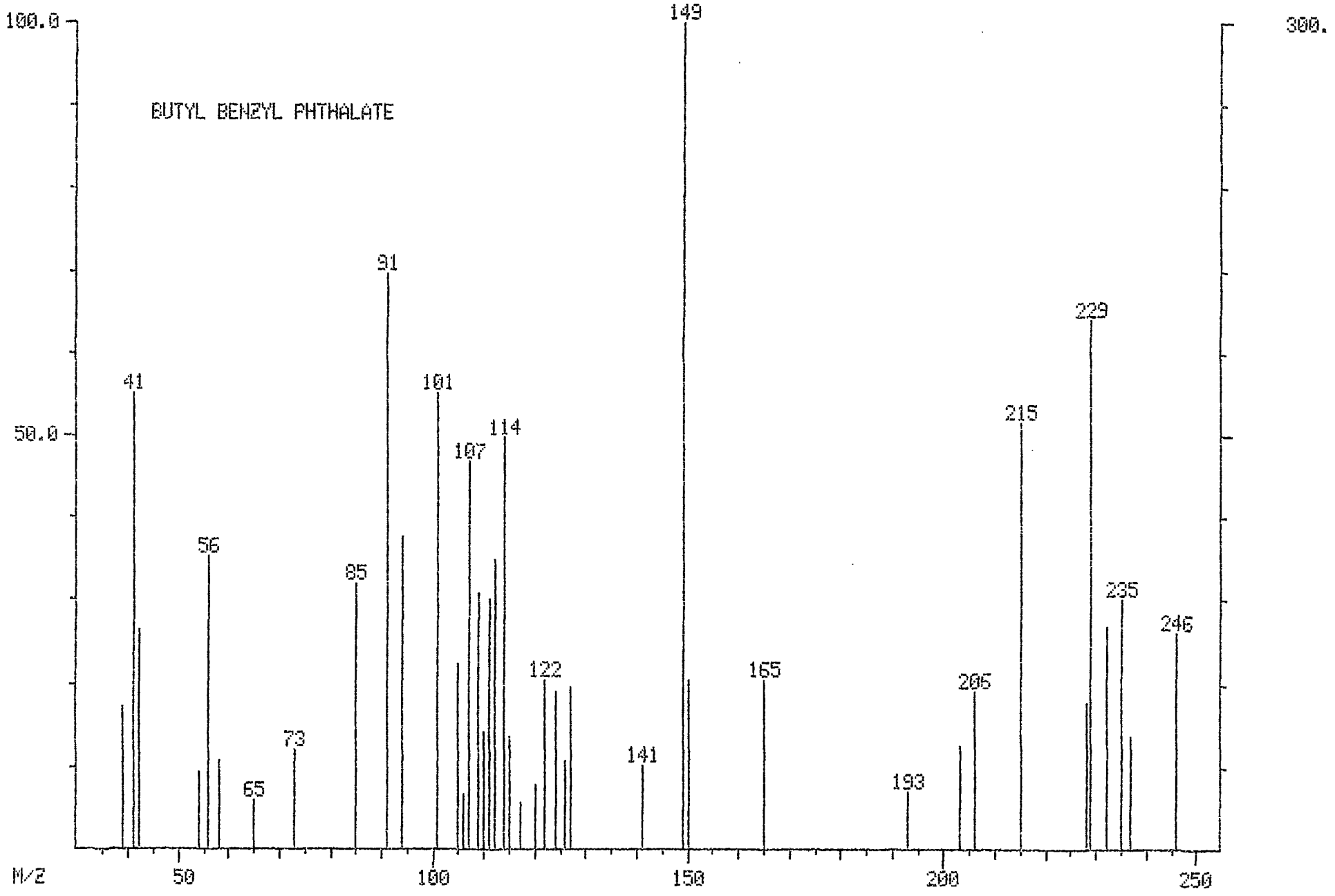
BUTYL BENZYL PHTHALATE



MASS SPECTRUM
12/02/93 19:53:00 + 27:13
SAMPLE: EXQ11RE C3 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1633
CALI: EXQ11BR #3

BASE M/Z: 149
RIC: 3368.



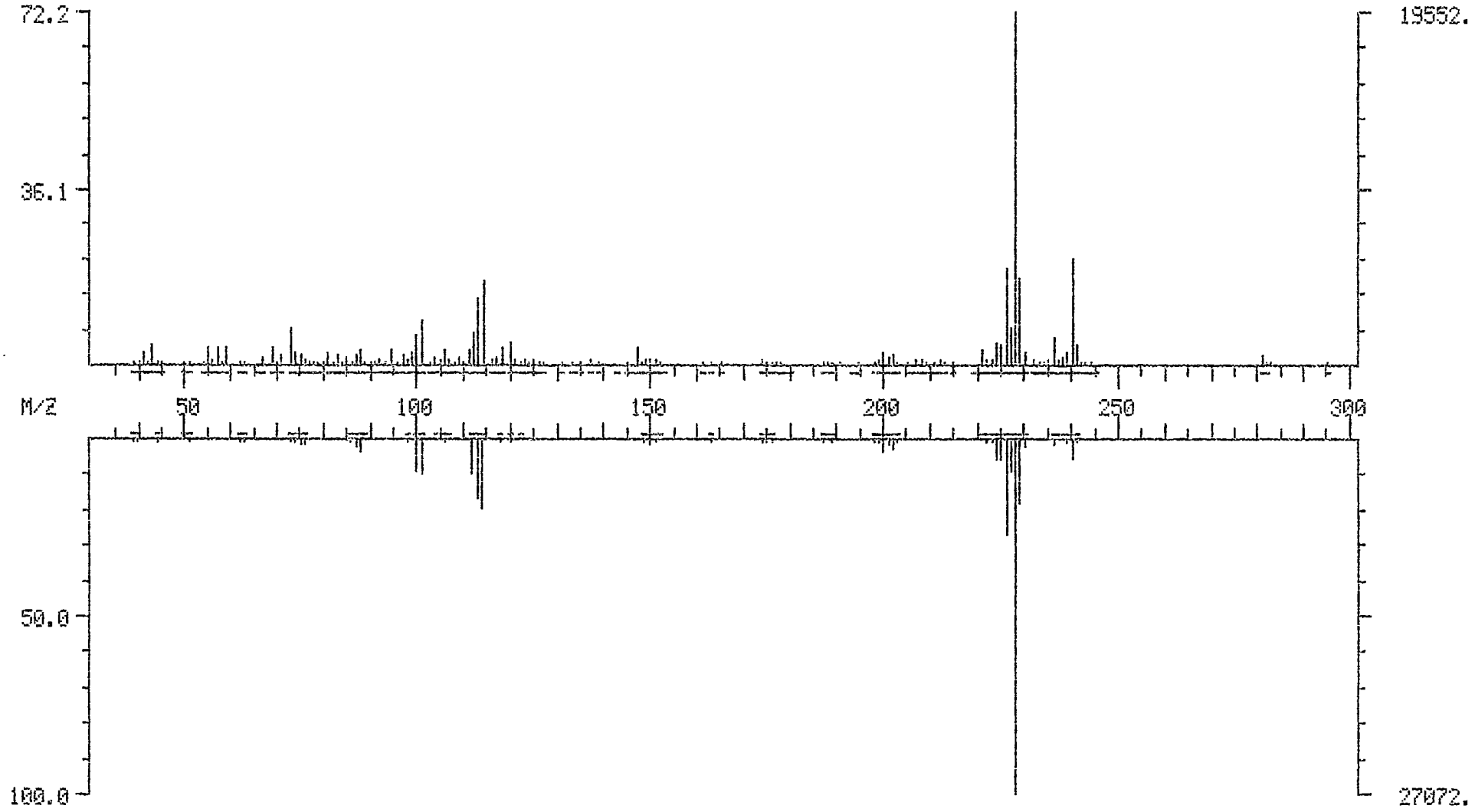
1205

DUAL MASS SPECTRUM
12/02/93 19:53:00 + 28:13
SECOND SPECTRUM
SAMPLE: EXQ11RZ eg 12-6-93
CONDS.: INST. 001

DATA: EXQ11BR #1693
CALI: EXQ11BR #3
DATA: 50BA1202 #1688

BASE M/Z: 228/ 228
RIC: 98815./ 75263.

BENZO(A) ANTHRACENE

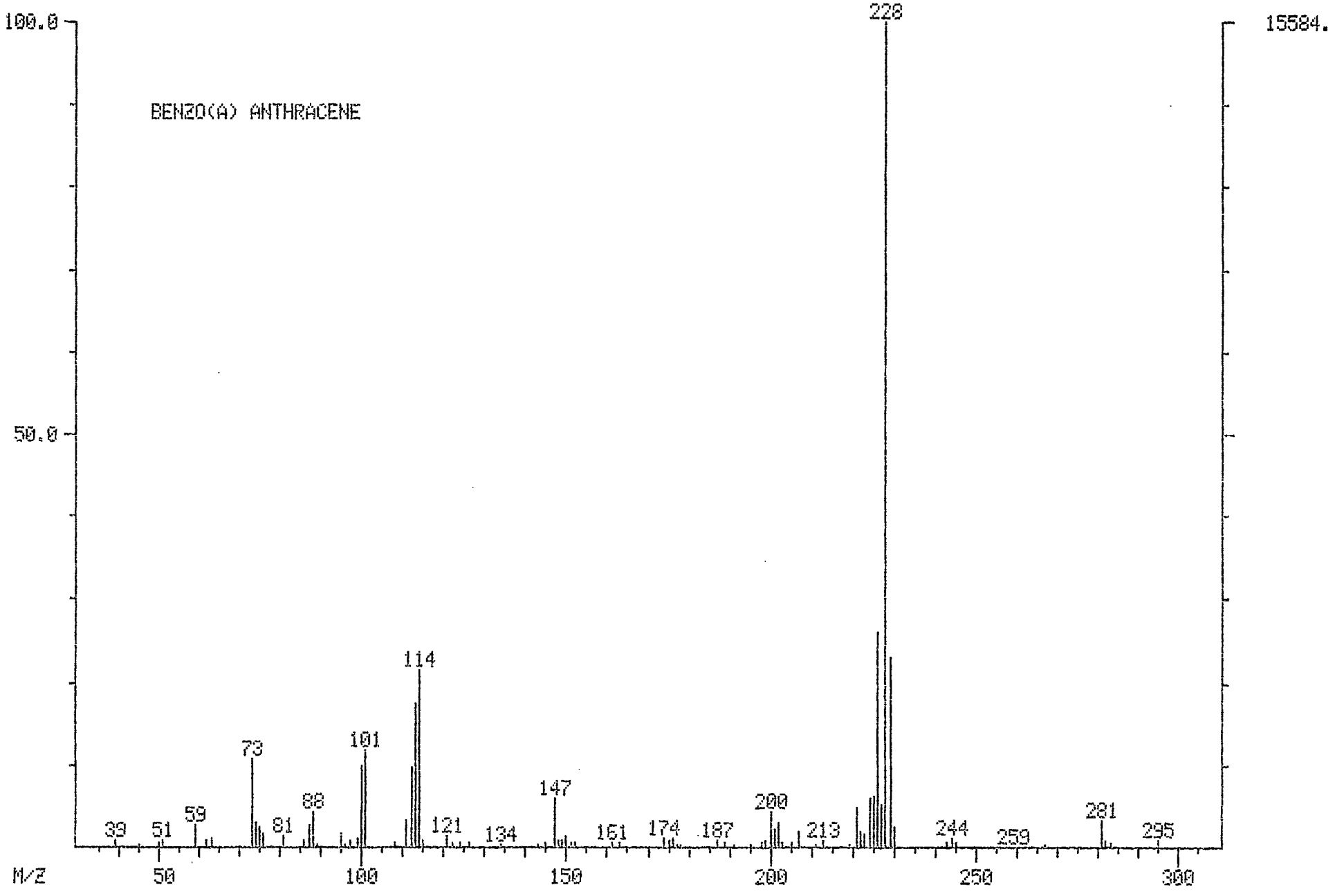


MASS SPECTRUM
12/02/93 19:53:00 + 28:13
SAMPLE: EXQ11BR cg 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1693
CALI: EXQ11BR #3

BASE M/Z: 228
RIC: 53120.

1207

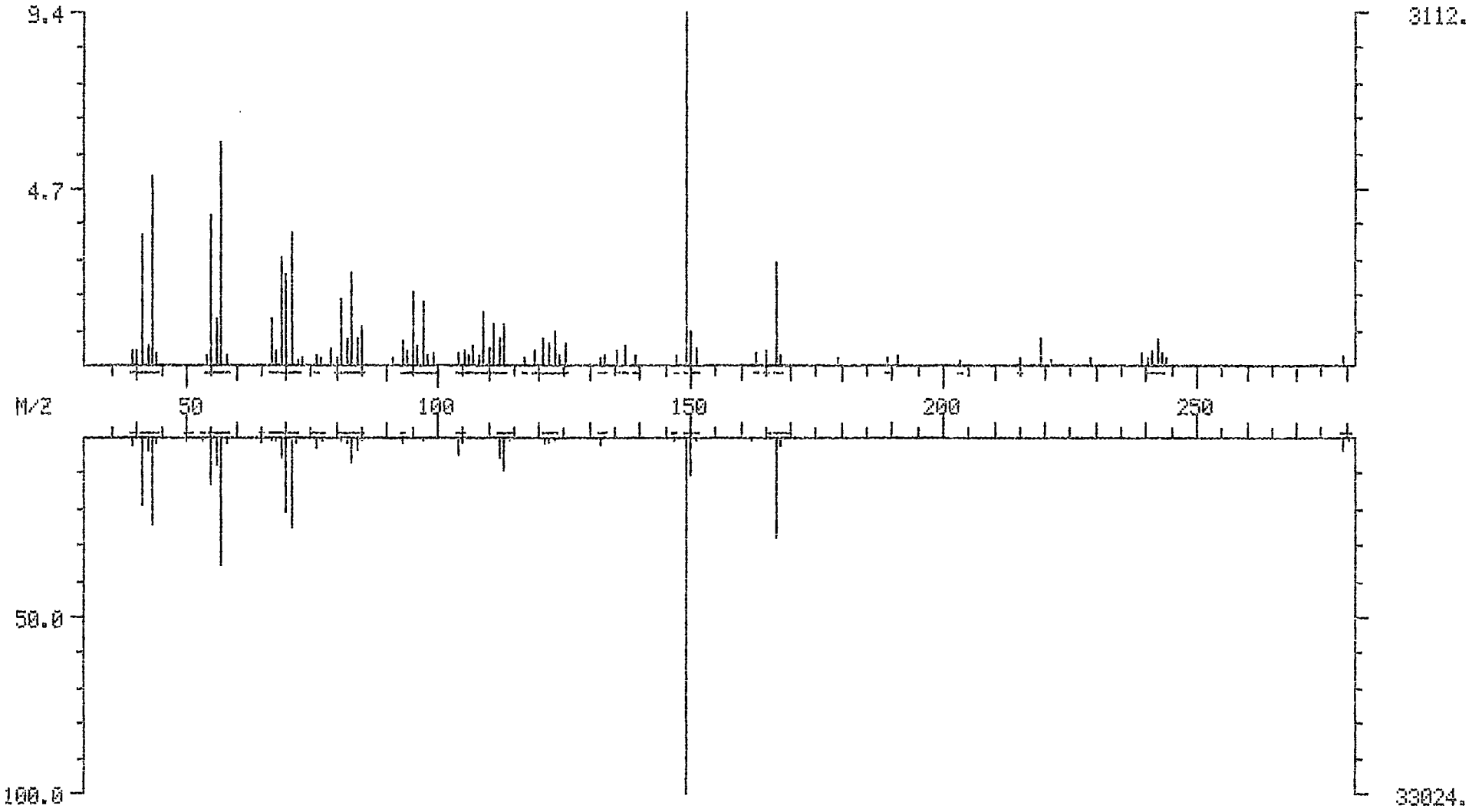


DUAL MASS SPECTRUM
12/02/93 19:53:00 + 29:23
SECOND SPECTRUM
SAMPLE: EXQ11RE cg 12-で 3
CONDS.: INST. 001

DATA: EXQ11BR #1763
CALI: EXQ11BR #3
DATA: 50BA1202 #1761

BASE M/Z: 149/ 149
RIC: 25695./ 118527.

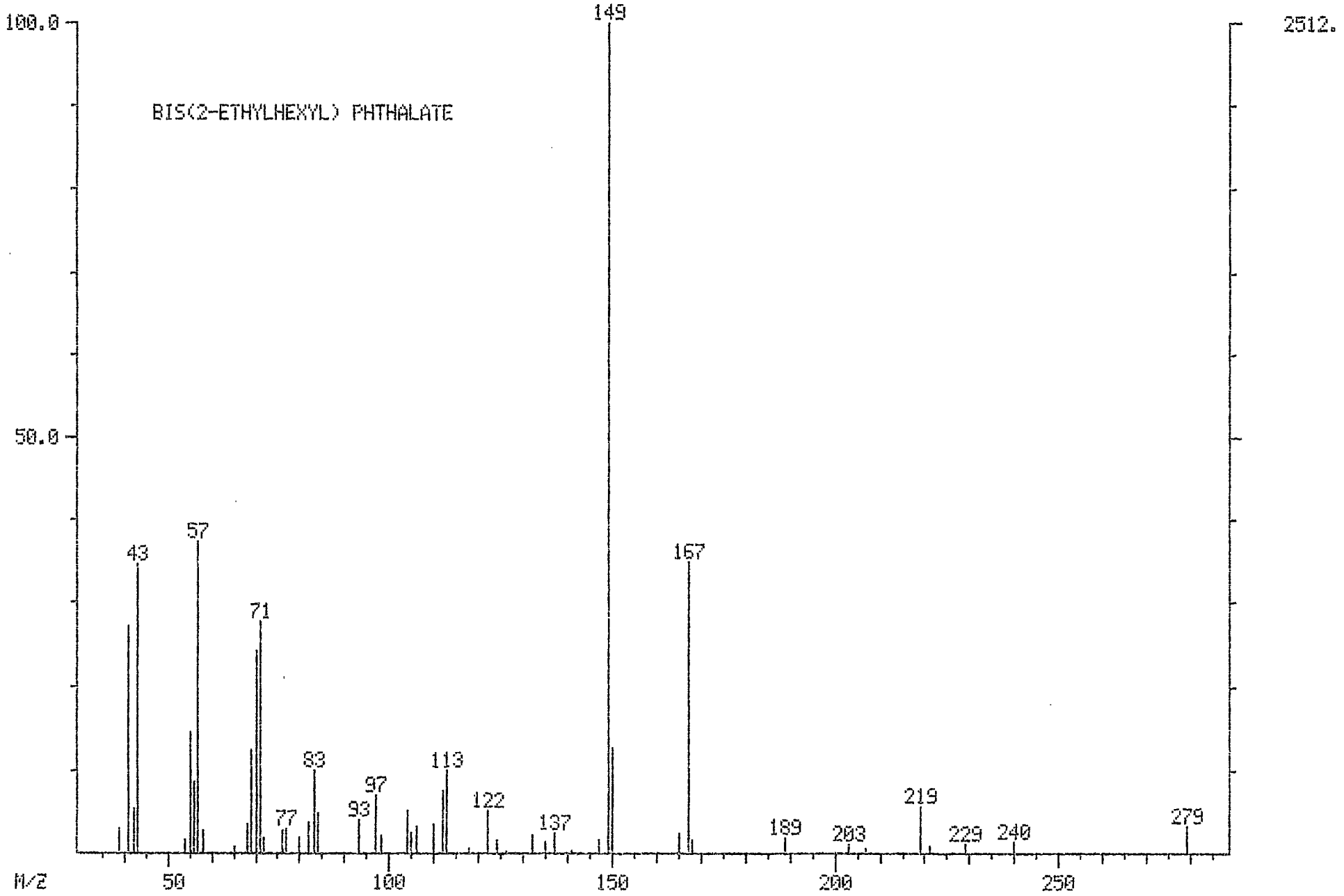
BIS(2-ETHYLHEXYL) PHTHALATE



MASS SPECTRUM
12/02/93 19:53:00 + 29:23
SAMPLE: EXQ11RE ↺ 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1763
CALI: EXQ11BR #3

BASE M/Z: 149
RIC: 11584.



1209

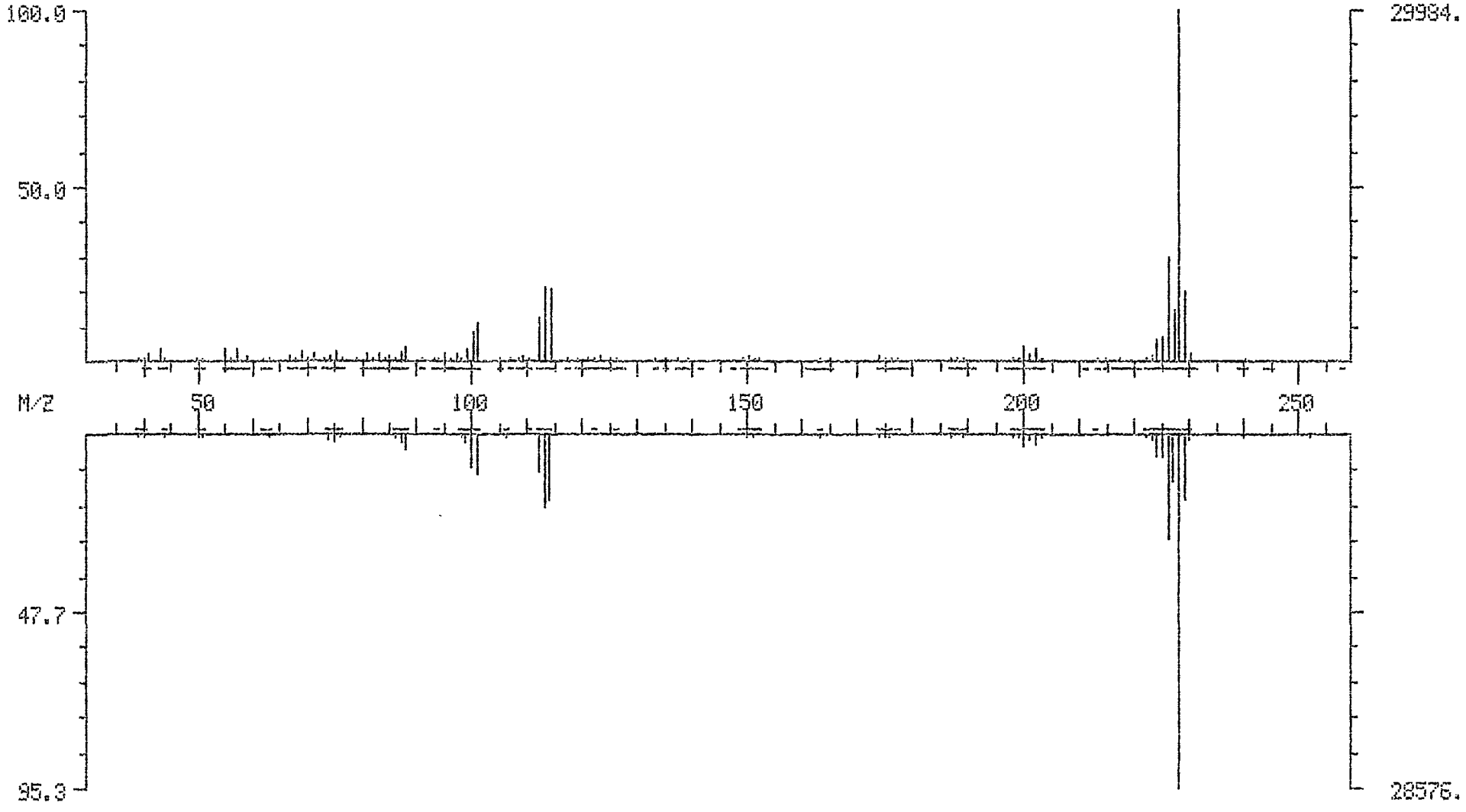
DUAL MASS SPECTRUM
12/02/93 19:53:00 + 28:20
SECOND SPECTRUM
SAMPLE: EX011RE @8 12-6-Y3
CONDS.: INST. 001

DATA: EX011BR #1700
CALI: EX011BR #3
DATA: 50BA1202 #1696

BASE M/Z: 228/ 228
RIC: 105471./ 80639.

0121

CHRYSENE

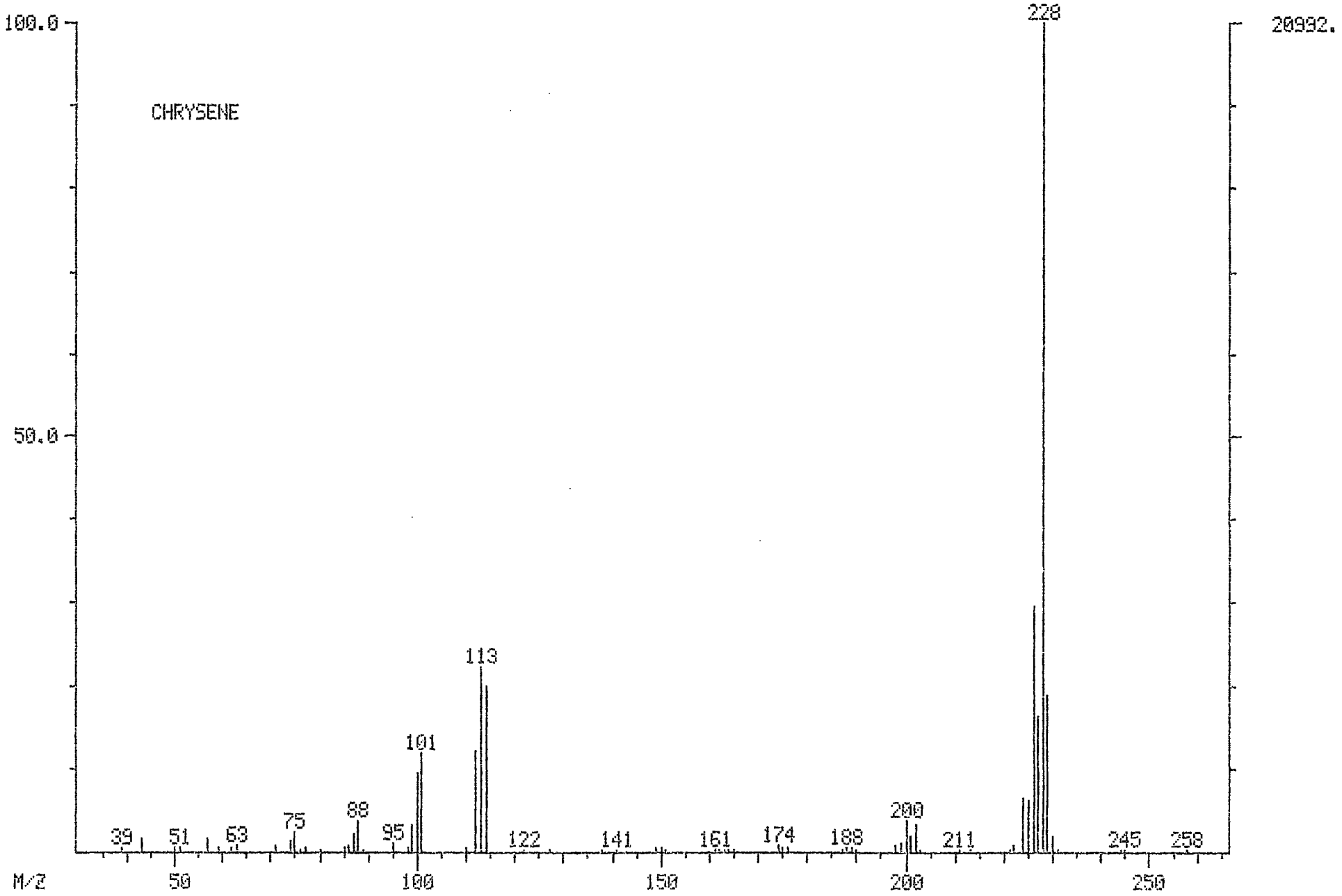


MASS SPECTRUM
12/02/93 19:53:00 + 28:20
SAMPLE: EXQ11RE as 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1700
CALI: EXQ11BR #3

BASE M/Z: 228
RIC: 63296.

1211

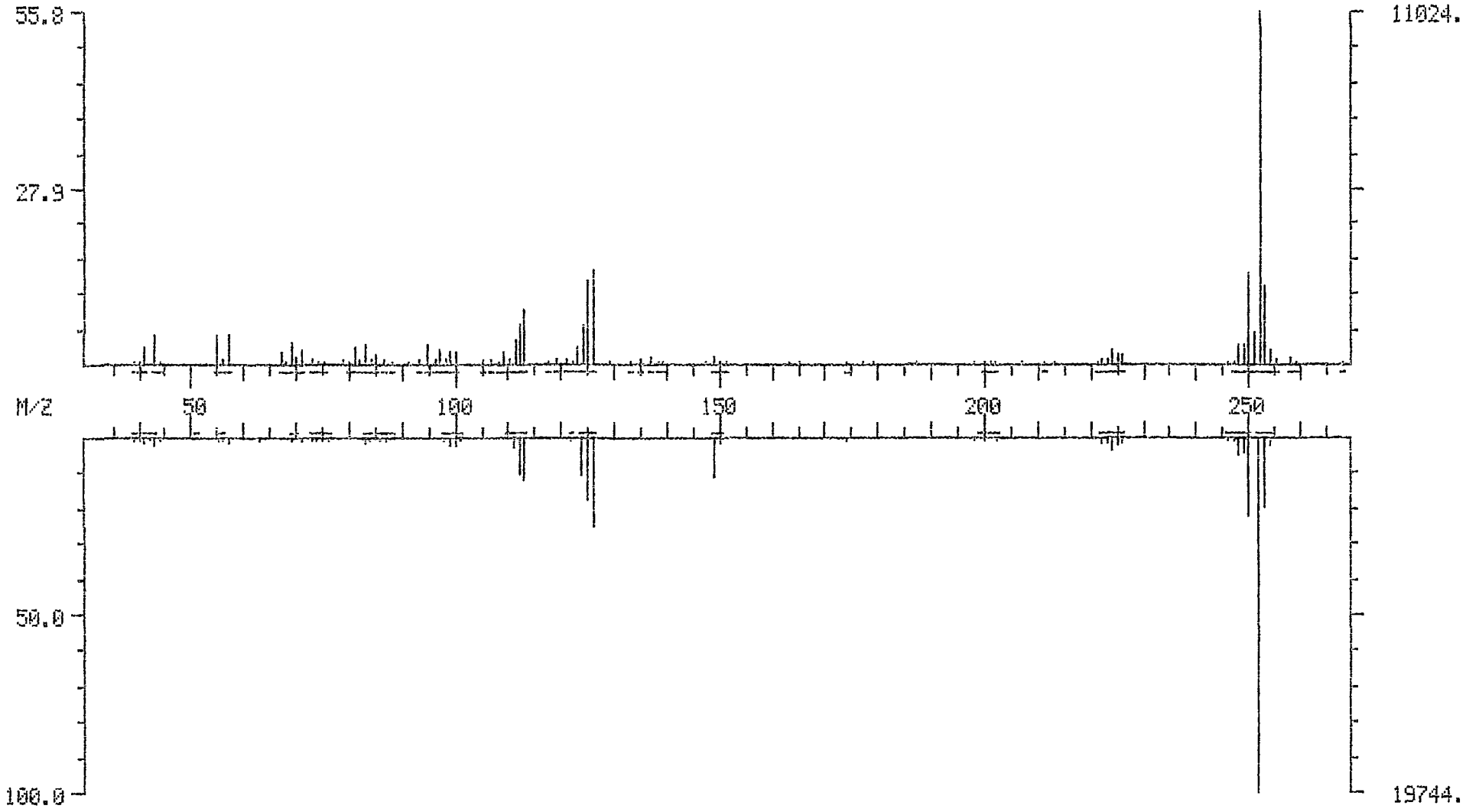


DUAL MASS SPECTRUM
12/02/93 19:53:00 + 31:29
SECOND SPECTRUM
SAMPLE: EXQ11RE Q8 12-6-93
CONDS.: INST. 001

DATA: EXQ11BR #1889
CALI: EXQ11BR #3
DATA: 50BA1202 #1886

BASE M/Z: 252/ 252
RIC: 46015./ 55103.

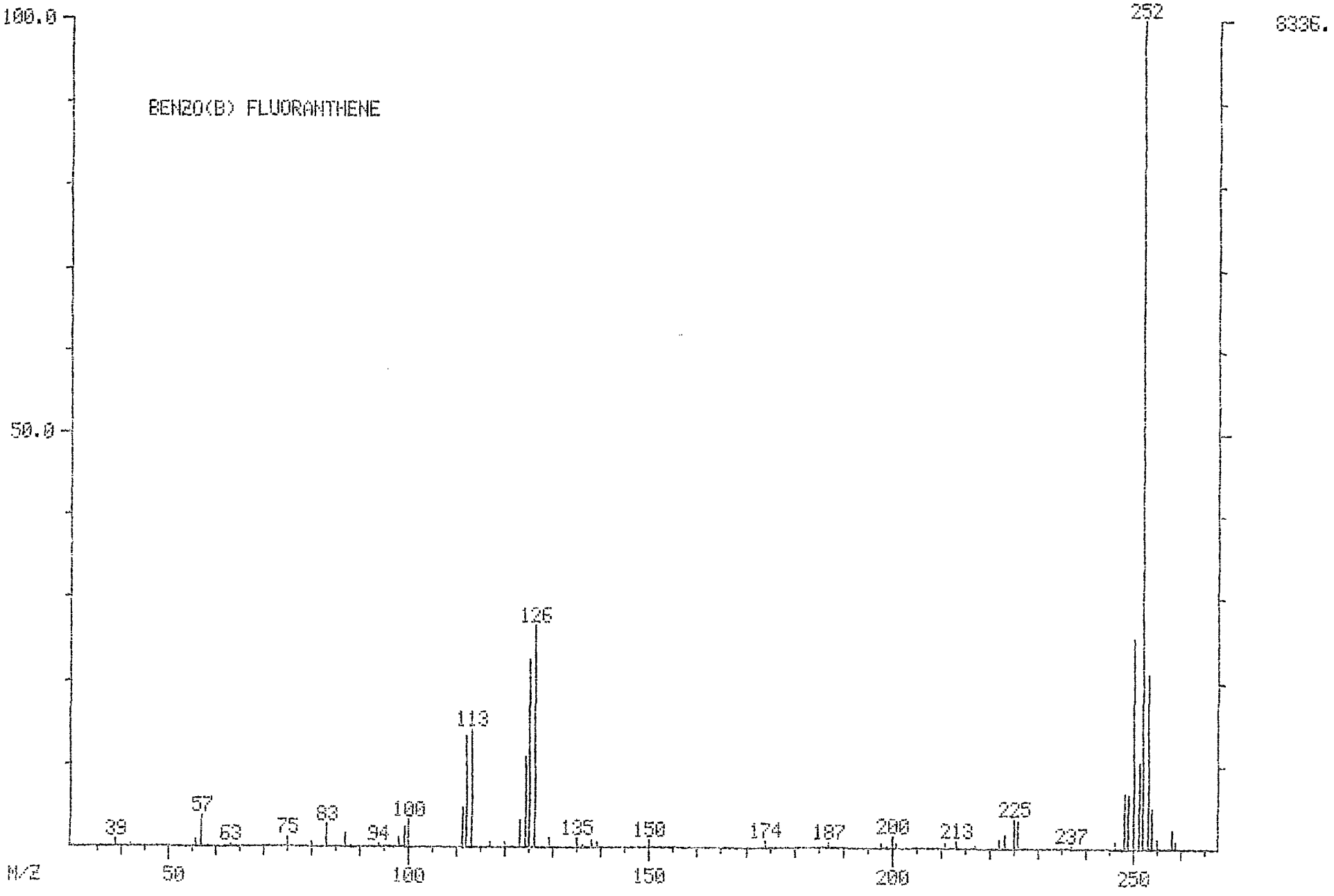
BENZO(B) FLUORANTHENE



MASS SPECTRUM
12/02/93 19:53:00 + 31:29
SAMPLE: EX011RE CS 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EX011BR #1889
CALI: EX011BR #3

BASE M/Z: 252
RIC: 26272.



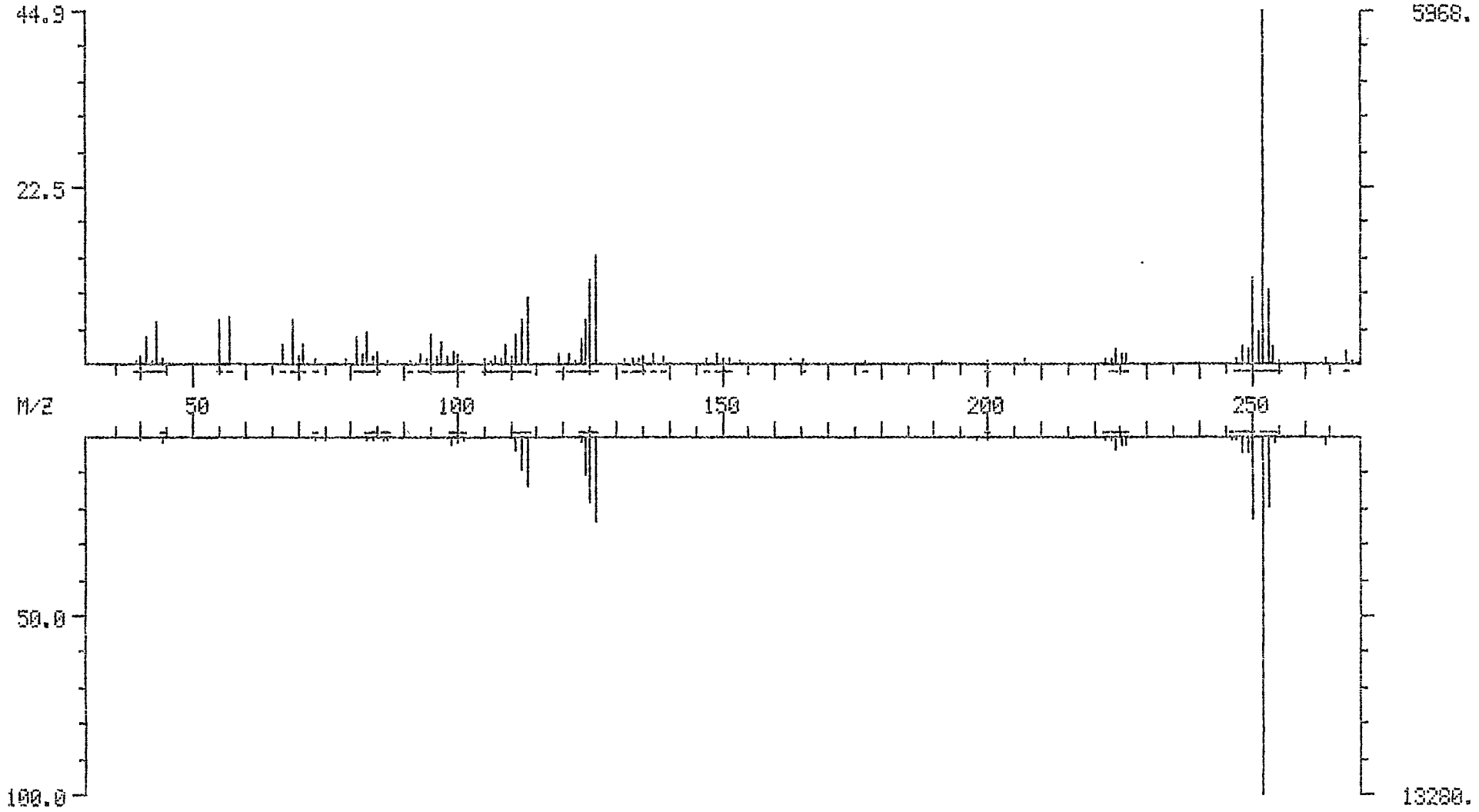
121

DUAL MASS SPECTRUM
12/02/93 19:53:00 + 32:21
SECOND SPECTRUM
SAMPLE: EXQ11BE as 12-6-93
CONDS.: INST. 001

DATA: EXQ11BR #1941
CALI: EXQ11BR #3
DATA: 50BA1202 #1939

BASE M/Z: 252/ 252
RIC: 28991./ 33919.

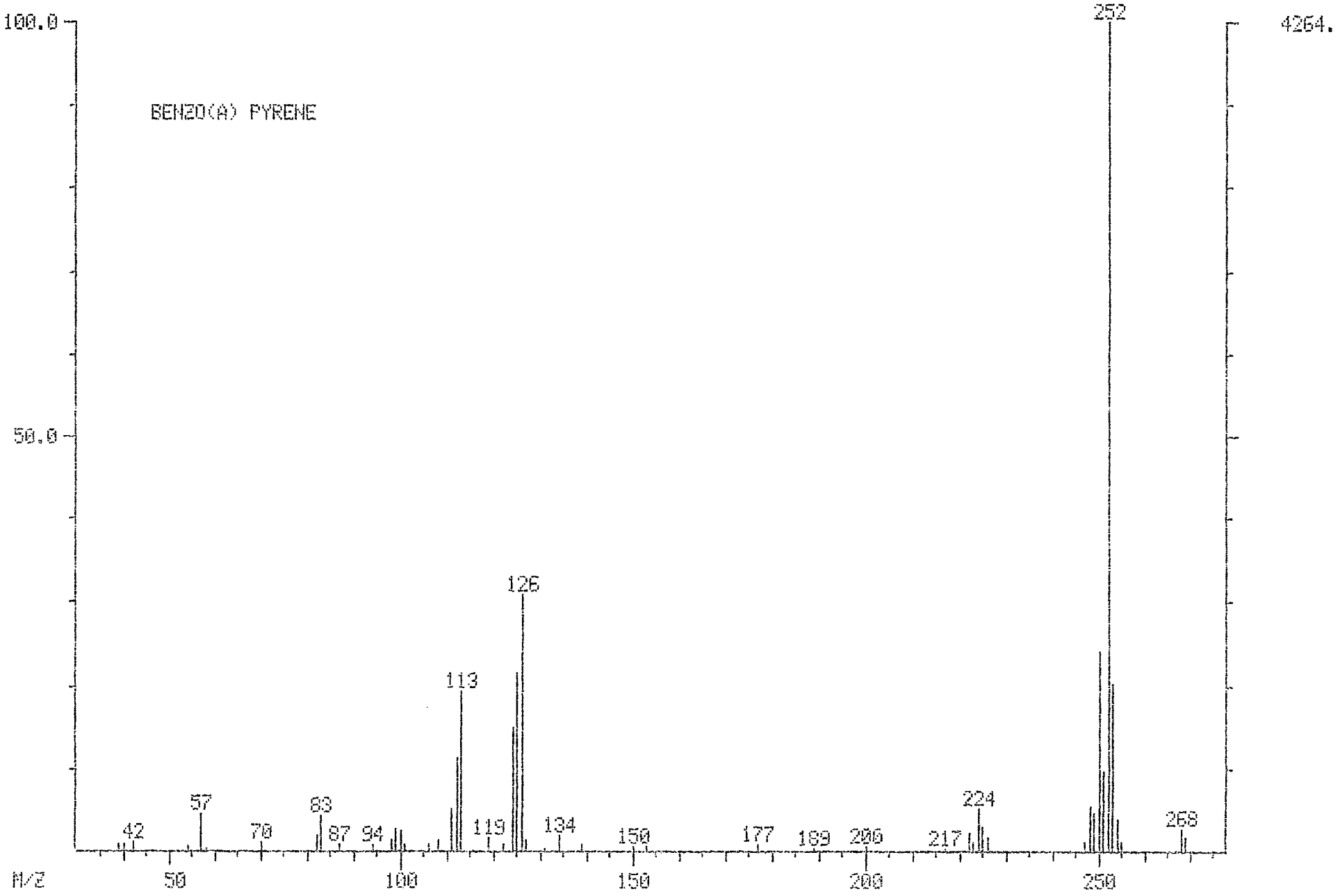
BENZO(A) PYRENE



MASS SPECTRUM
12/02/93 19:53:00 + 32:21
SAMPLE: EXQ11RE CS 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1941
CALI: EXQ11BR #3

BASE M/Z: 252
RIC: 13920.



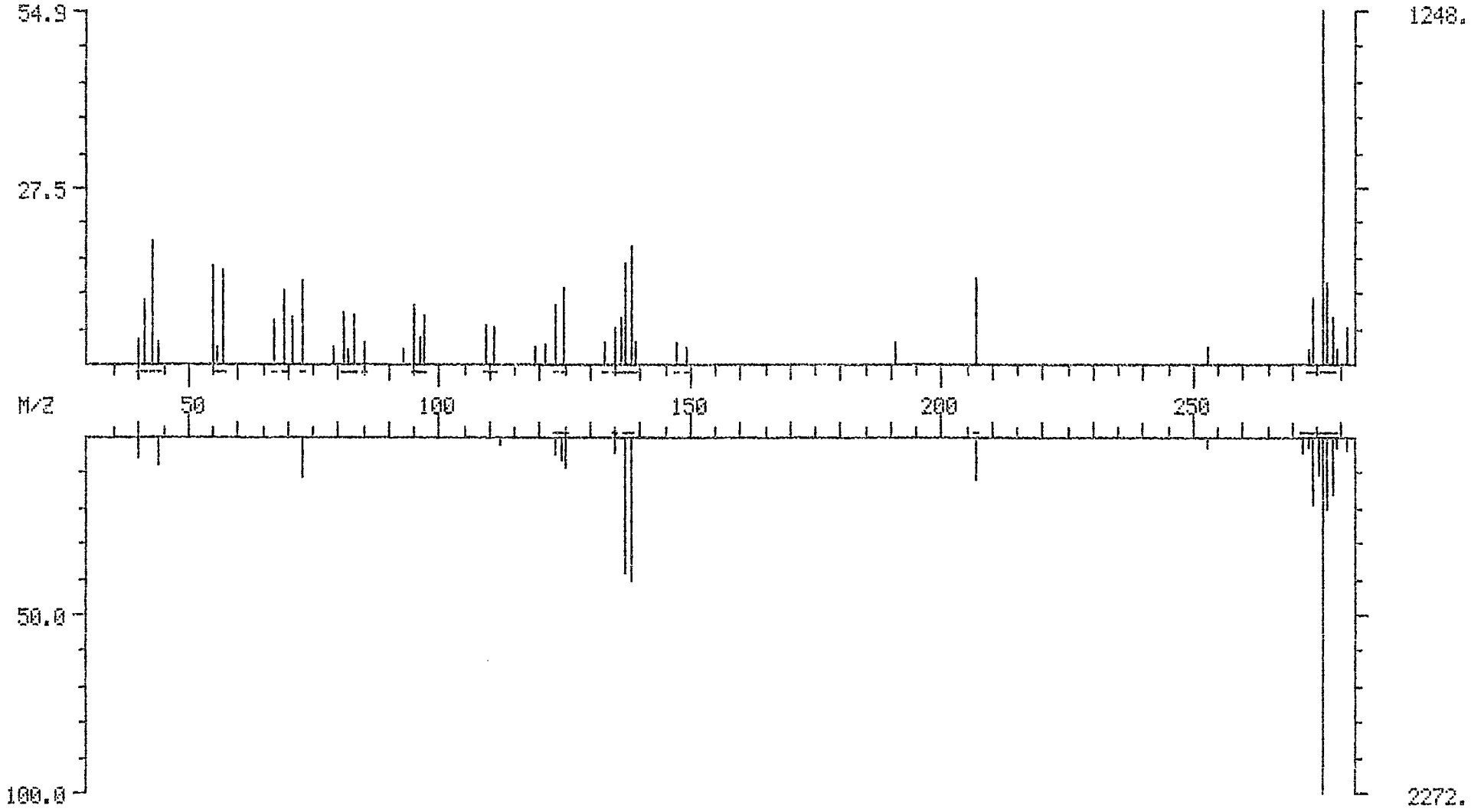
DUAL MASS SPECTRUM
12/02/93 19:53:00 + 35:53
SECOND SPECTRUM
SAMPLE: EXQ11RE 98 12-6-93
CONDS.: INST. 001

DATA: EXQ11BR #2153
CALI: EXQ11BR #3
DATA: 50BA1202 #2158

BASE M/Z: 276/ 276
RIC: 8383./ 7335.

1216

INDENO(1,2,3-CD) PYRENE

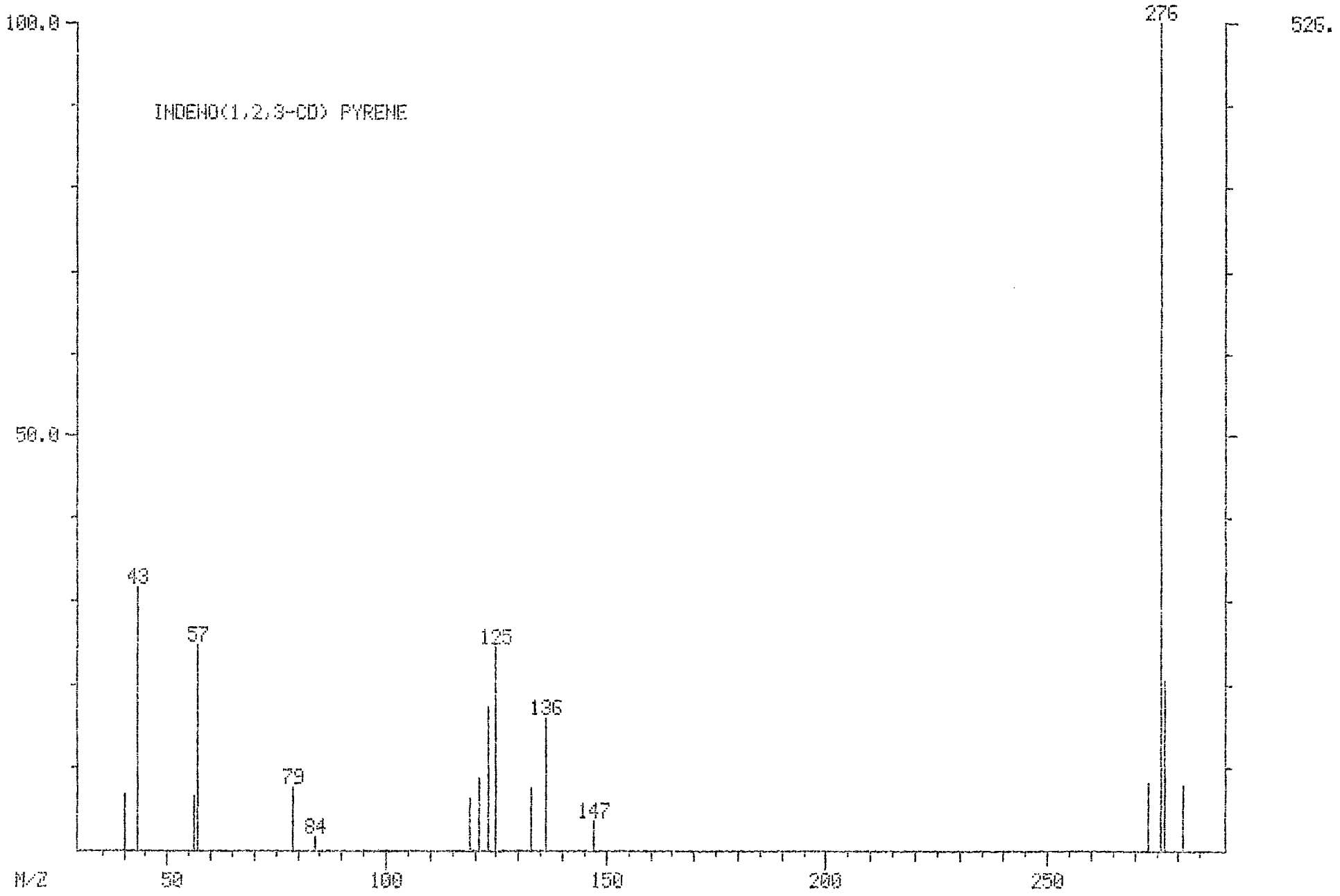


MASS SPECTRUM
12/02/93 19:53:00 + 35:53
SAMPLE: EXQ11RE cs 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #2153
CALI: EXQ11BR #3

BASE M/Z: 276
RIC: 1574.

1217

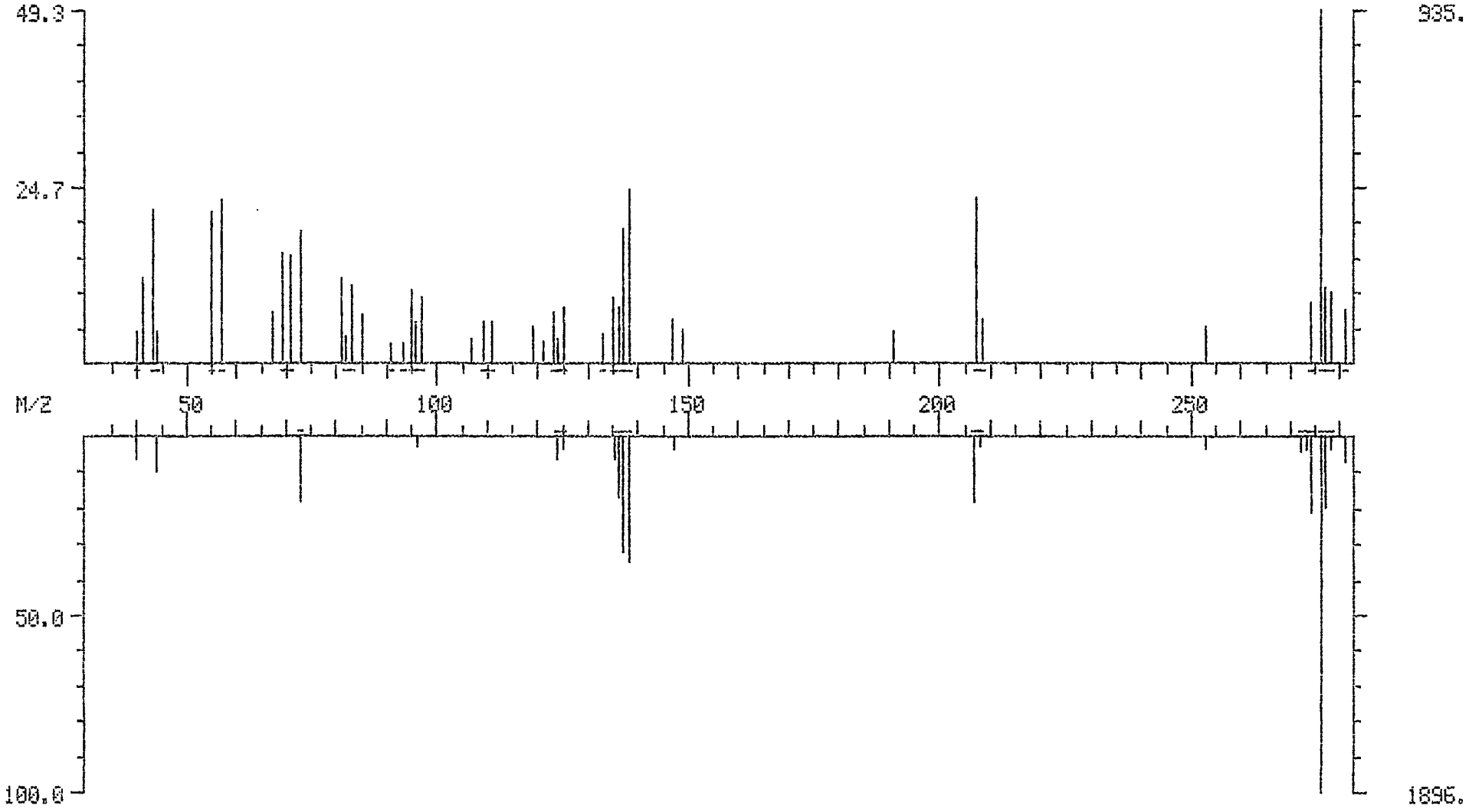


DUAL MASS SPECTRUM
12/02/93 19:53:00 + 36:43
SECOND SPECTRUM
SAMPLE: EXQ11RE QS 12-6-93
CONDS.: INST. 001

DATA: EXQ11BR #2203
CALI: EXQ11BR #3
DATA: 50BA1202 #2213

BASE M/Z: 276/ 276
RIC: 8575./ 6119.

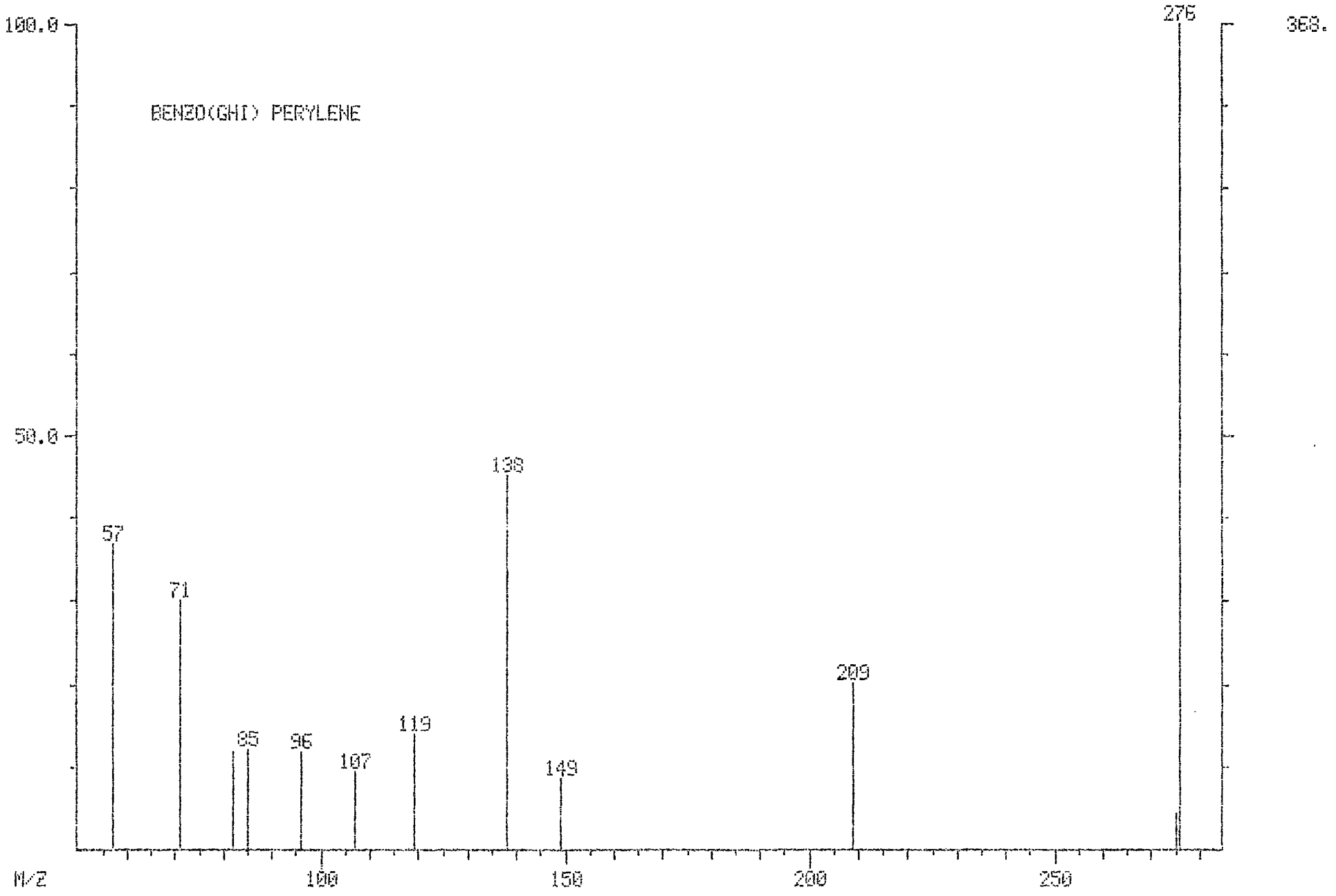
BENZO(GHI) PERYLENE



MASS SPECTRUM
12/02/93 19:53:00 + 36:43
SAMPLE: EX011RE 08 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EX011BR #2203
CALI: EX011BR #3

BASE M/Z: 276
RIC: 1122.



Library Search Data: EXQ11BR # 280 Base m/z: 43
12/02/93 19:53:00 + 4:40 Cali: EXQ11BR # 3 RIC: 47040.
Sample: EXQ11B~~R~~ CS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
190 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	9964	2-HEXANONE, 6-(ACETYLOXY)-
2	1294	ACETIC ACID, 2-PROPENYL ESTER
3	1093	2-PROPYN-1-OL, ACETATE
4	1177	2-PROPANONE, 1-CYCLOPROPYL-
5	2846	2-PENTANONE, 4-HYDROXY-4-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H14.O3	158	43	754	923	766
2	C5.H8.O2	100	43	576	920	612
3	C5.H6.O2	98	43	527	916	551
4	C6.H10.O	98	43	578	883	602
5	C6.H12.O2	116	43	700	879	716

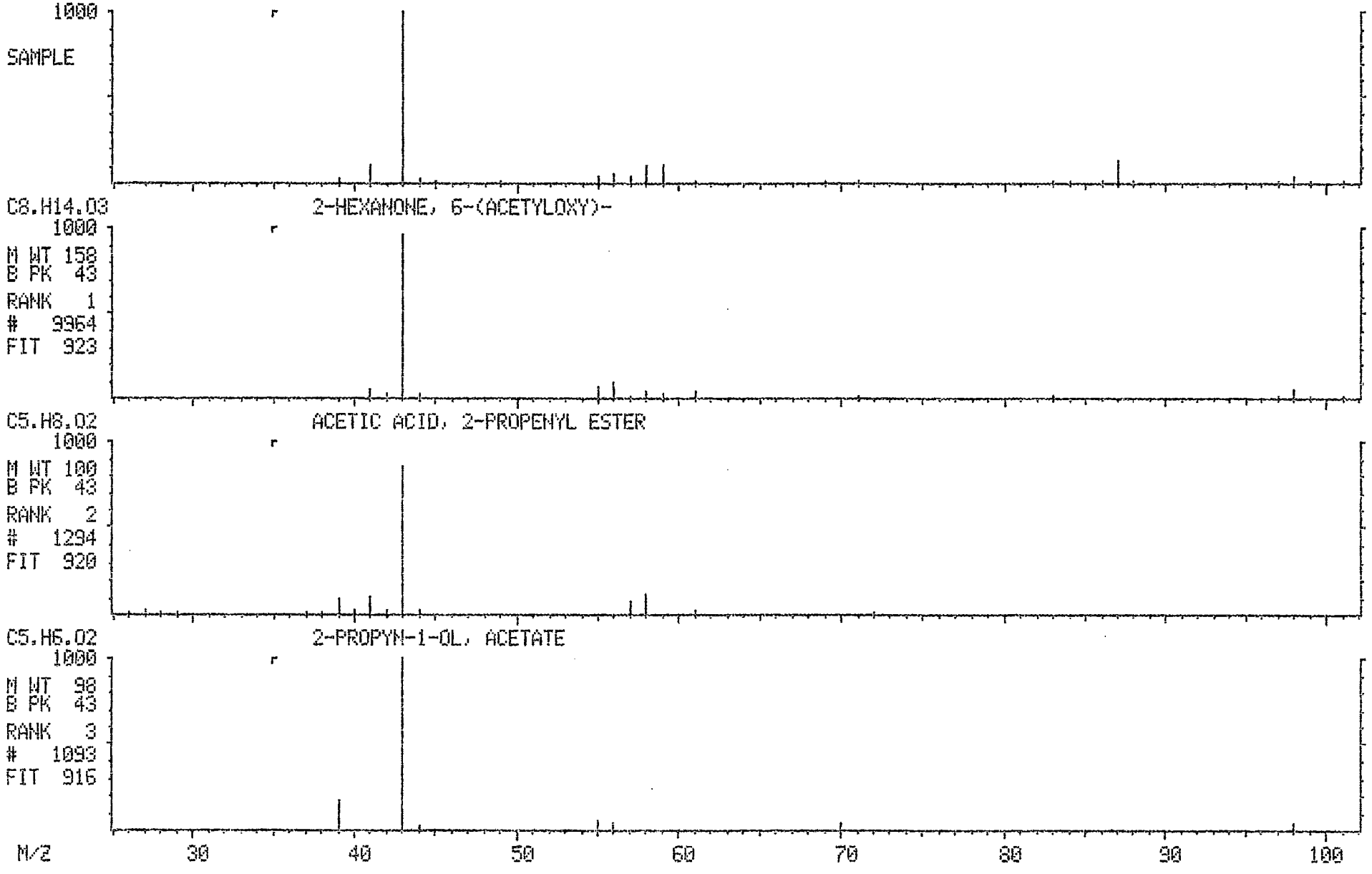
Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	4305-26-4
2	___	___	___	___	591-87-7
3	___	___	___	___	627-09-8
4	___	___	___	___	4160-75-2
5	___	___	___	___	123-42-2

Mass	Inten	1	2	3	4	5
26			12			
27			22		52	37
28			10		15	
29			17		51	33
31						55
37			9			
38			16			
39	28		89	179	55	26
40			22			
41	112	57	106		48	66
42		29	27		15	26
43	999	966	848	997	802	714
44	26	28	26	28	72	
45	12					
49	12					
53					24	
54					7	
55	37	64		49	145	40
56	53	93		39	24	44
57	42	18	81			20
58	111	44	115			118
59	109	27				284
61	15	45	25			
69	17				3	
70				39		
71	7	18				
72			8			
73						6
83	18	20			37	25
84	5					
86	9					

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 4:40
SAMPLE: EXQ11RE as 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR # 280
CALI: EXQ11BR # 3

BASE M/Z: 43
RIC: 47040.



Library Search Data: EXQ11BR # 408 Base m/z: 43
12/02/93 19:53:00 + 6:48 Cali: EXQ11BR # 3 RIC: 8624.
Sample: EXQ11~~RE~~ CS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
165 matched at least 6 of the 14 largest peaks in the unknown

Rank	In.	Name
1	6811	3-HEPTANONE, 2,4-DIMETHYL-
2	1427	PENTANE, 3,3-DIMETHYL-
3	6686	3,4-HEXANEDIONE, 2,5-DIMETHYL-
4	8108	PENTANE, 3-BROMO-
5	1426	PENTANE, 3-ETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18.O	142	43	816	903	862
2	C7.H16	100	43	797	864	842
3	C8.H14.O2	142	43	705	811	785
4	C5.H11.BR	150	43	704	802	760
5	C7.H16	100	43	690	748	749

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	18641-71-9
2	___	___	___	___	562-49-2
3	___	___	___	___	4388-87-8
4	___	___	___	___	1809-10-5
5	___	___	___	___	617-78-7

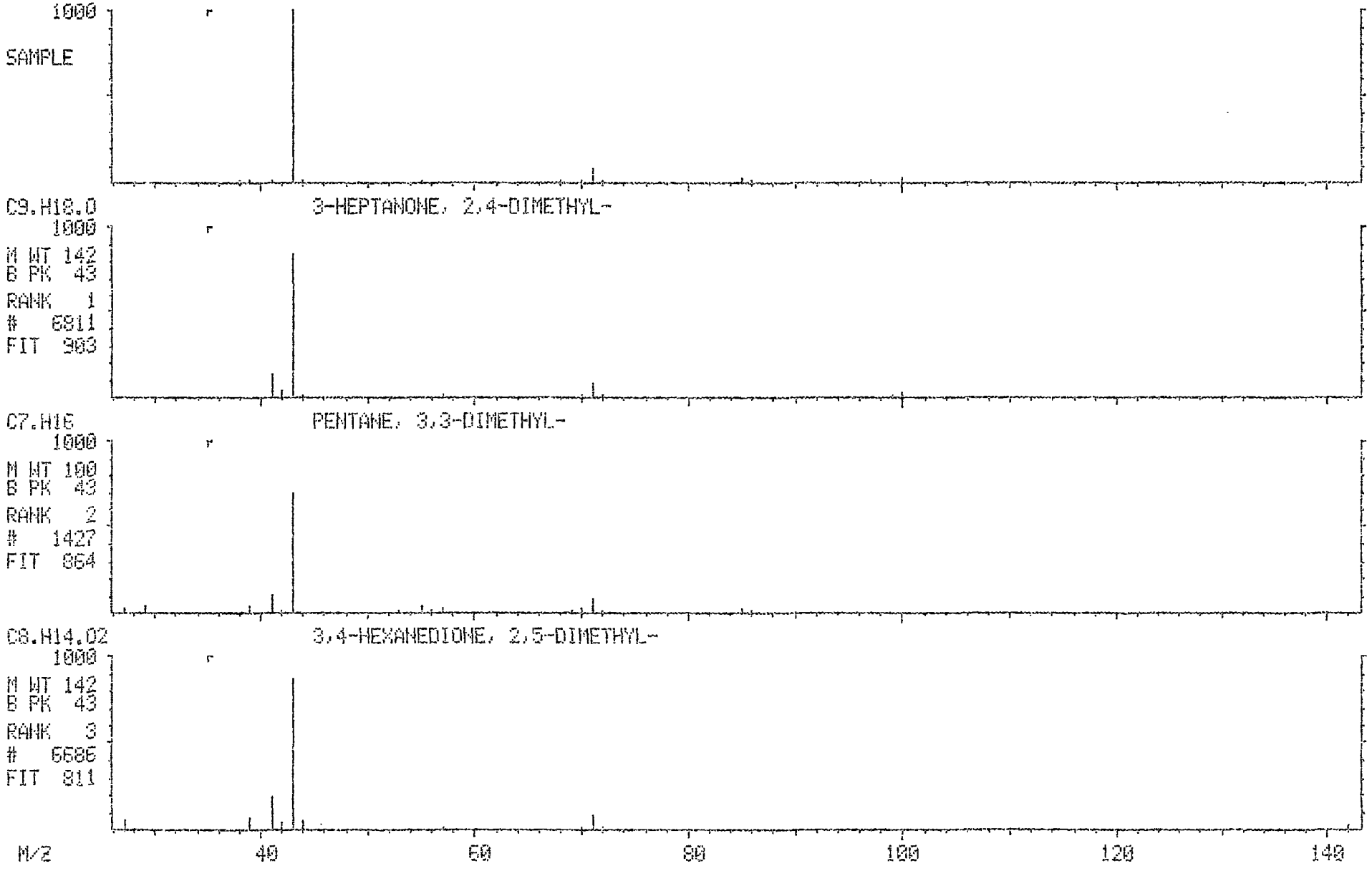
Mass	Inten	1	2	3	4	5
27			32	56	34	64
28						8
29			33		43	73
38	5					
39	13		39	70	106	76
41	17	127	106	191	235	163
42		33	13	42	72	54
43	999	840	698	866	855	672
44	16	16		60	28	22
53			6		6	10
55	9		43		53	77
56			4			17
57		3	25	13		17
68	7					
69			1			
70	6	1	26	8	1	81
71	83	86	80	81	86	81
72	2	3	3	7	4	4
85	23		21			
86	16		1			
93					0	
95					0	
97	4					
99		12				
100	26	26				5
107					2	
109					2	
121					1	
123					1	
142				27		
150					2	

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 6:48
SAMPLE: EXQ11RE CS 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR # 408
CALI: EXQ11BR # 3

BASE M/Z: 43
RIC: 8624.

1221



Library Search Data: EXQ11BR # 432 Base m/z: 281
12/02/93 19:53:00 + 7:12 Cali: EXQ11BR # 3 RIC: 37760.
Sample: EXQ11~~BR~~ CS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
142 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	33218	CYCLOTETRASILOXANE, OCTAMETHYL-
2	31576	3',6-DIMETHOXYAURONE
3	38132	1,1,1,3,5,7,9,9,9-NONAMETHYLPENTASILOXANE
4	31548	2(1H)-PYRIMIDINONE, 5-CHLORO-4,6-DIPHENYL-
5	39176	3-ISOPROPOXY-1,1,1,5,5,5-HEXAMETHYL-3-(TRIMETHYLSILOXY)TRISILOXANE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H24.O4.SI4	296	281	947	987	947
2	C17.H14.O4	282	281	512	829	561
3	C9.H30.O4.SI5	342	281	675	803	796
4	C16.H11.O.N2.CL	282	281	532	787	605
5	C12.H34.O4.SI4	354	281	699	771	853

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	556-67-2
2	___	___	___	___	77764-84-2
3	___	___	___	___	84409-41-6
4	___	___	___	___	28567-83-1
5	___	___	___	___	72182-11-7

Mass	Inten	1	2	3	4	5
15		18				
27		4				
29		5				
43		4				382
45	21	15		21		133
47	4					
49	9					
58	4					
59	12	11		13		55
61	1	7				
73	97	67		97		695
74	7	7		15	7	65
75	11	13		12	10	55
76					11	
77					37	
81	4					
83	1					
84	8					
86	7					
89	2	7				
96	11	21				
97	2					
101					33	
102					28	
103	18	20				
104	5	6			105	
106			15			
107			12			
110	7	5				
111	10	5				
112	6					

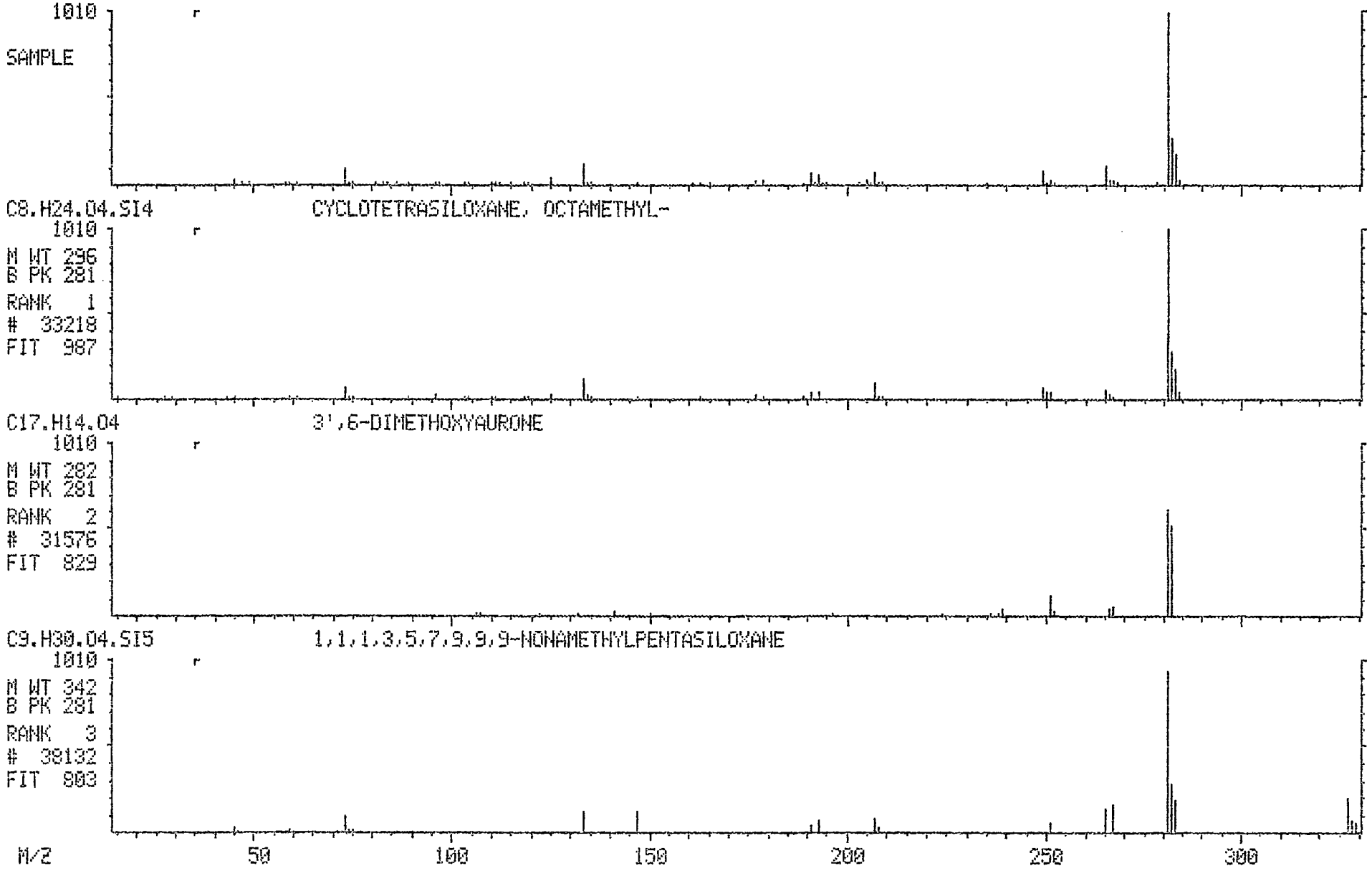
1225
~~1224~~
REJ 12-7-93

118	11	12				
119	16	14				39
122			15			
125	43	29				
132			18			
133	118	115		118		91
134	19	25				
135	2	8				
141			27			
147	6	10		118		
150			20			
161	2					
163	13	11				15
165	9					
177	25	28				20
179	21	17				15
189	8	6				
190						69
191	74	45		34		
192	16					22
193	59	41		73		62
194	9					
195	4					
196			10			
203	8					
204					30	
205	26					24
206	4					
207	67	88		82		216
208	12	19		21		52
209	6	17				24
224			14			
235	8					
236			14			
238			17			
239			37			
240					30	
247					85	
248					27	
249	83	61				100
250	19	43				27
251	30	37	122	52		29
252	4		20			
265	108	58		128		103
266	28	26	33			29
267	22	19	49	162		27
268	1					
278	5					
281	999	1010	617	948	614	1004
282	270	286	528	276	459	268
283	168	180		187	277	159
284	29	36			167	
285					33	
297						32
327				202		
328				61		
329				50		
339						215
340						66
341						33

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 7:12
SAMPLE: EXQ11RE CS 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR # 432
CALI: EXQ11BR # 3

BASE M/Z: 281
RIC: 37760.



Library Search Data: EXQ11BR # 825 Base m/z: 73
12/02/93 19:53:00 + 13:45 Cali: EXQ11BR # 3 RIC: 39616.
Sample: EXQ11BE CS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
98 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	44778	CYCLOHEXASILOXANE, DODECAMETHYL-
2	36589	.BETA.-D-GLUCOPYRANOSIDE, 3-(4-METHOXYPHENYL)-2-PROPENYL
3	34900	TETRASILOXANE, DECAMETHYL-
4	24583	(+-)-2,3-BUTANEDIOL DITMS
5	38162	2H-1,4-BENZODIAZEPIN-2-ONE, 7-CHLORO-1,3-DIHYDRO-5-PHENYL-1-(TRIMET*

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H36.O6.SI6	444	73	942	986	953
2	C16.H22.O7	326	147	73	821	83
3	C10.H30.O3.SI4	310	73	228	797	253
4	C10.H26.O2.SI2	234	73	207	788	228
5	C18.H19.O.N2.CL.SI	342	73	475	778	586

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	540-97-6
2	___	___	___	___	19764-36-4
3	___	___	___	___	141-62-8
4	___	___	___	___	53229-15-5
5	___	___	___	___	55299-24-6

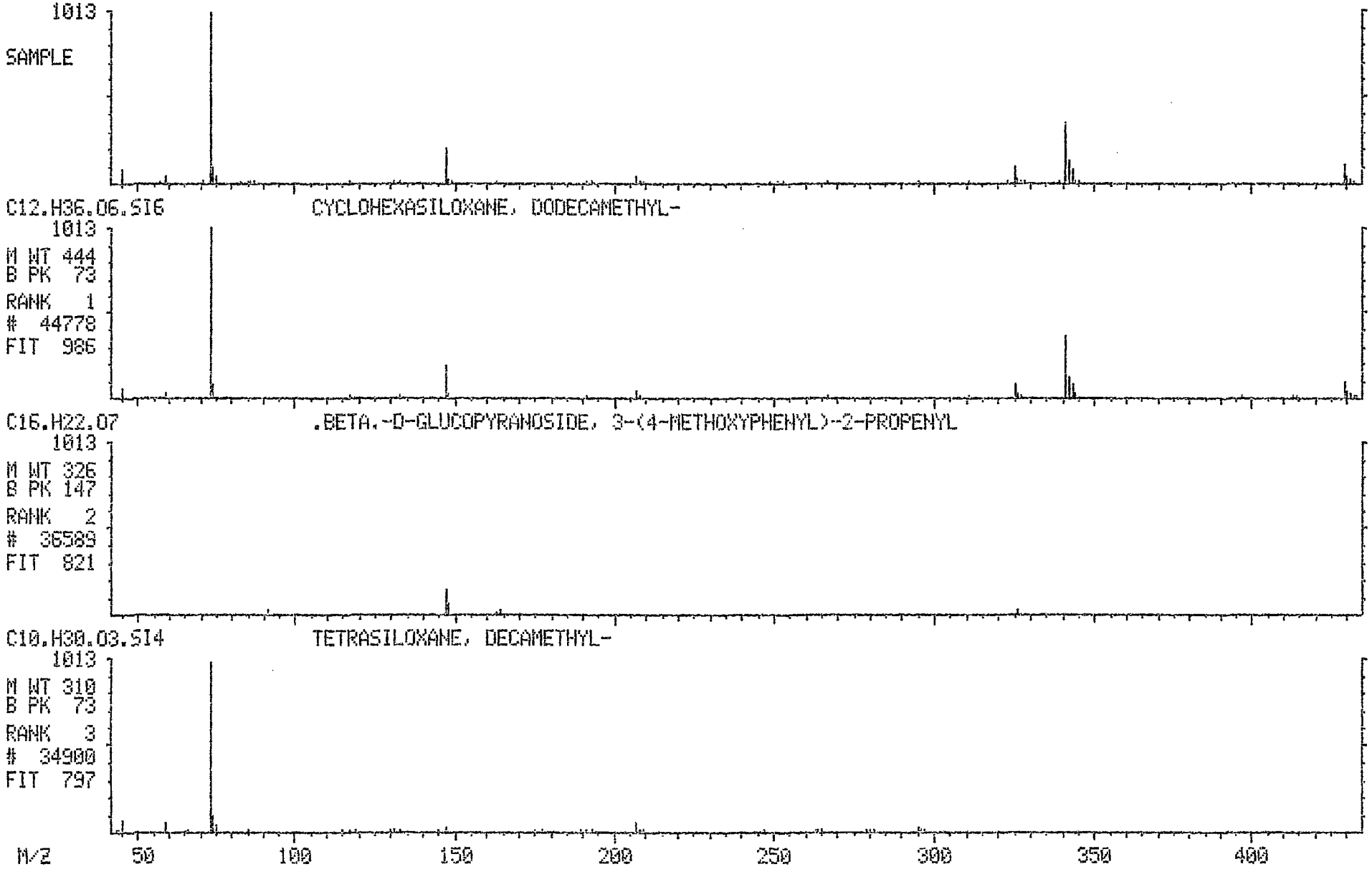
Mass	Inten	1	2	3	4	5
43				7		
44				7		
45	77	55		71	79	77
47					24	
57	4					
59	42	32		49	46	30
65						33
66				10	88	
71	5					
73	999	1012		992	887	949
74	87	84		87	82	87
75	40			45	125	82
83	3					
85	7			6		
86	0					
87	3					
89						29
91			29			150
100						9
102						5
115				4		
116					5	11
117	10	13		15	245	
118					31	
119				4	11	
129					8	
130				2		
131	5			5	15	
133	14	15		9	18	
145				8		
146						14

148	29	32	65		28	
149	15				18	
150						5
151						7
152						5
163	1		18			10
164			21			7
165						4
166						14
175				5		
177				6		25
178						15
189				1		
190						30
191	15	9		2		15
193	10			1		
205						14
207	43	45		54		
208	6	9		10		
209	1			6		
219					6	
220					1	
227						15
228						2
229						5
239						5
240						2
241						4
247				1		
249	7					
251	10					
253	2					
263				1		
264				0		
265				0		
267	9	9				
268						2
269						10
270						2
271						4
279				3		
280				1		
281				0		
295	5			30		
296				8		
297				4		
299						2
311	9	10				
323	1					
325	94	82				
326	28	25	28			
327	19	19				40
328	2					9
329						15
339	2					
340						4
341	350	369				221
342	129	122				157
343	84	84				108
344	19	20				47
345	6					
397		4				
413		4				
414		1				
428	108	101				

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 13:45
SAMPLE: EXQ11RE CS 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR # 825
CALI: EXQ11BR # 3

BASE M/Z: 73
RIC: 39616.



Library Search Data: EXQ11BR # 992 Base m/z: 73
12/02/93 19:53:00 + 16:32 Cali: EXQ11BR # 3 RIC: 20864.
Sample: EXQ11~~RE~~ CS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
52 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	31604	ANDROSTA-1,4,6-TRIENE-3,17-DIONE
2	46966	TETRASILOXANE, 3,5-DIETHOXY-1,1,1,7,7,7-HEXAMETHYL-3,5-BIS(TRIMETHY*
3	48088	3-BUTOXY-1,1,1,7,7,7-HEXAMETHYL-3,5,5-TRIS(TRIMETHYLSILOXY)TETRASIL*
4	47924	3-ISOPROPOXY-1,1,1,7,7,7-HEXAMETHYL-3,5,5-TRIS(TRIMETHYLSILOXY)TETR*
5	24831	MERCAPTOACETIC ACID, BIS(TRIMETHYLSILYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H22.O2	282	282	85	892	94
2	C16.H46.O7.SI6	518	73	499	883	514
3	C19.H54.O7.SI7	590	73	750	871	853
4	C18.H52.O7.SI7	576	73	729	847	855
5	C8.H20.O2.S.SI2	236	73	251	828	298

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	633-35-2
2	___	___	___	___	72439-78-2
3	___	___	___	___	72439-84-0
4	___	___	___	___	71579-69-6
5	___	___	___	___	6398-62-5

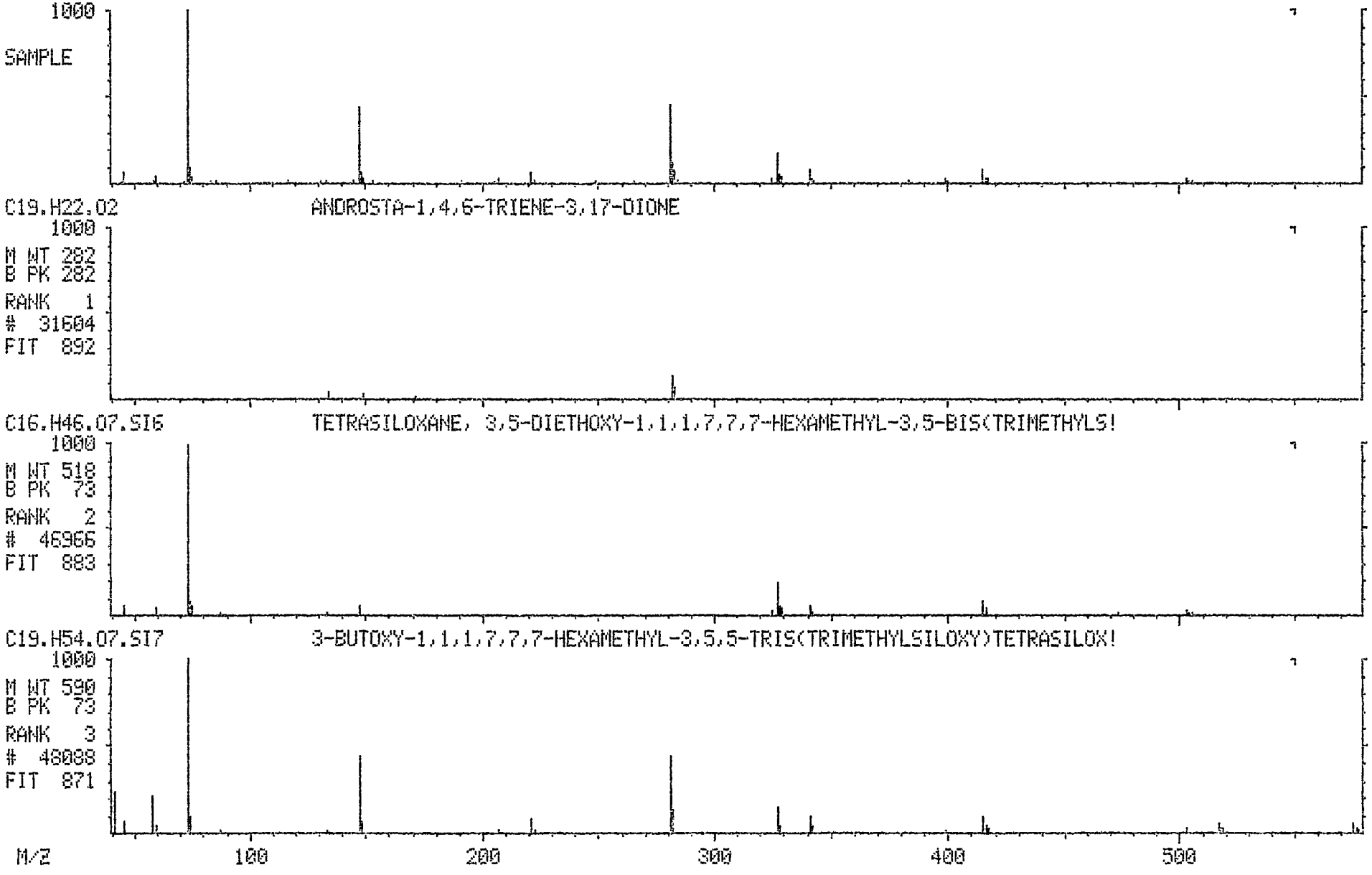
Mass	Inten	1	2	3	4	5
41				235		
43					187	28
44	10					
45	64		55	61	63	66
57				217		
58	3					21
59	36		43	35	35	43
66						31
71	3					
73	999		988	999	1007	854
74	90		84	92	83	81
75	41		51			132
83	4					
85	7					
87			10	10		
104						20
105						9
117	10					
119						13
131	17					7
133	17		18	19	19	7
134		39				
145	2					
147	442		49	445	441	446
148	69			64	69	72
149	33	33				41
153	12					
163						11
171		9				
177						28
178						5

193					49
194					9
195					6
205	10				
207	27			11	11
221	70			76	76	67
222	10			16	15	13
223						9
236						14
237						3
249	4				
265	8				
281	454			438	444
282	118	131		132	127
283	75	61			
284	11				
325	22		25		
327	178		192	148	146
328	47		57	44	42
329	35		39		
341	82		49	97	98
342	23		19	36	38
343	16				
383	4				
399	33			11	16
400	12				
415	84		78	87	87
416	29		35	37	37
417	21			24	23
429					11
473			17		
503	30		30	30	30
504	13		13		
505	2		9		
517				46	56
518				26	35
519				26	61
561					26
562					14
575				56	
576				30	
577				19	

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 16:32
SAMPLE: EXQ11RE CS 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR # 992
CALI: EXQ11BR # 3

BASE M/Z: 73
RIC: 20864.



Library Search Data: EXQ11BR #1143 Base m/z: 73
12/02/93 19:53:00 + 19:03 Cali: EXQ11BR # 3 RIC: 11104.
Sample: EXQ11~~BE~~ as 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
83 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	40467	BENZOIC ACID, 2,4-BIS[(TRIMETHYLSILYL)OXY]-, TRIMETHYLSILYL ESTER
2	48088	3-BUTOXY-1,1,1,7,7,7-HEXAMETHYL-3,5,5-TRIS(TRIMETHYLSILOXY)TETRASIL*
3	47924	3-ISOPROPOXY-1,1,1,7,7,7-HEXAMETHYL-3,5,5-TRIS(TRIMETHYLSILOXY)TETR*
4	40445	CYCLOPENTASILOXANE, DECAMETHYL-
5	24831	MERCAPTOACETIC ACID, BIS(TRIMETHYLSILYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H30.O4.SI3	370	73	619	839	689
2	C19.H54.O7.SI7	590	73	442	833	511
3	C18.H52.O7.SI7	576	73	442	833	526
4	C10.H30.O5.SI5	370	73	425	825	473
5	C8.H20.O2.S.SI2	236	73	334	815	403

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	10586-16-0
2	___	___	___	___	72439-84-0
3	___	___	___	___	71579-69-6
4	___	___	___	___	541-02-6
5	___	___	___	___	6398-62-5

Mass	Inten	1	2	3	4	5
41	19		208			
43	35	16		164		29
44	10					
45	51	84	54	55	55	69
57	15		216			
58						20
59	37	23	35	35	35	43
63		21				
66						31
69	12					
70	7					
71	17					
73	999	965	1000	1007	1007	869
74	89	87	92	83	86	82
75	39	75			37	134
83	11					
87			10			
91		18				
95	7					
97	10					
104						22
105		10				10
119		11				11
121		4				
131	13	8				5
133	16	27	14	13		5
135		8				
147	317	37	319	316		322
148	47	7	46	50		52
149	26	18				29
163		9				8

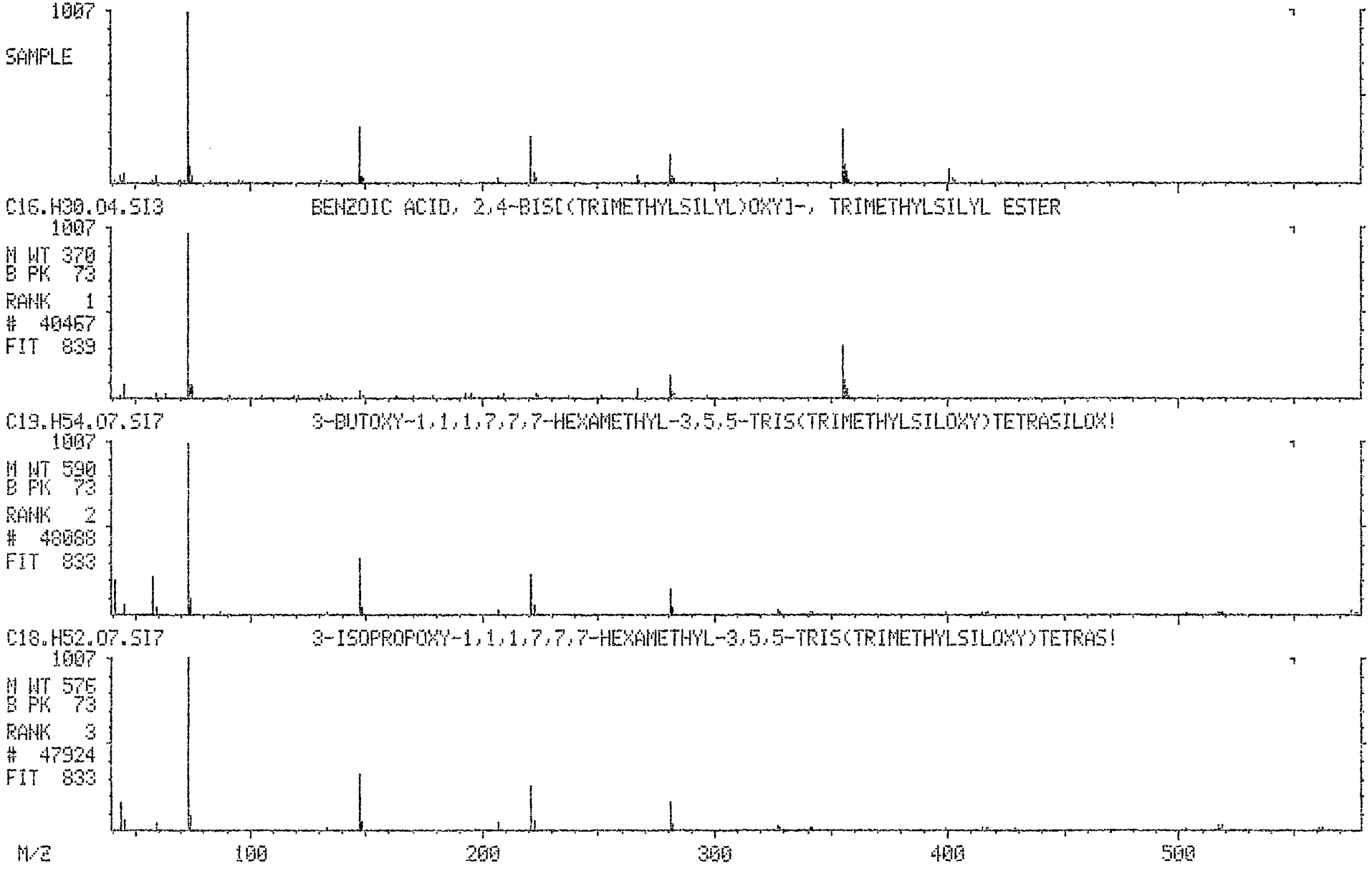
177						32
178						6
179		5				
191	8				8	
193		30			7	56
194						10
195		21				7
205					6	
207	30	12	32	39	9	
209		27				
221	268		222	257		250
222	50		48	51		50
223	20	32			3	35
224		8				
236						52
237		7				11
249					12	
251		11			17	
253					5	
267	40	53			201	
268	4				51	
269					34	
281	165	130	154	156		
282	35	41	46	44		
283	20	33				
297		18				
323					10	
325					6	
327	25		25	25		
328			7	7		
339					19	
340					6	
341			16	17	7	
342			6	6		
355	311	310			289	
356	100	105			103	
357	64	51			68	
358	5	12			17	
370		3				
399			2	3		
401	77					
402	29					
403	8					
415	20		20	20		
416			8	8		
417			5	5		
429				2		
503			13	12		
517			20	22		
518			11	13		
519			11	24		
561				16		
562				9		
575			32			
576			17			
577			11			

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 19:03
SAMPLE: EXQ11BR C8 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1143
CALI: EXQ11BR # 3

BASE M/Z: 73
RIC: 11104.

1237



Library Search Data: EXQ11BR #1273 Base m/z: 73
12/02/93 19:53:00 + 21:13 Cali: EXQ11BR # 3 RIC: 9216.
Sample: EXQ11~~BR~~ CS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
91 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	44781	1,1,1,5,7,7,7-HEPTAMETHYL-3,3-BIS(TRIMETHYLSILOXY)TETRASILOXANE
2	24831	MERCAPTOACETIC ACID, BIS(TRIMETHYLSILYL)-
3	44778	CYCLOHEXASILOXANE, DODECAMETHYL-
4	45336	HEXASILOXANE, TETRADECAMETHYL-
5	40467	BENZOIC ACID, 2,4-BIS[(TRIMETHYLSILYL)OXY]-, TRIMETHYLSILYL ESTER

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H40.O5.SI6	444	73	762	890	792
2	C8.H20.O2.S.SI2	236	73	359	817	431
3	C12.H36.O6.SI6	444	73	460	780	512
4	C14.H42.O5.SI6	458	73	517	778	648
5	C16.H30.O4.SI3	370	73	418	751	488

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	38147-00-1
2	___	___	___	___	6398-62-5
3	___	___	___	___	540-97-6
4	___	___	___	___	107-52-8
5	___	___	___	___	10586-16-0

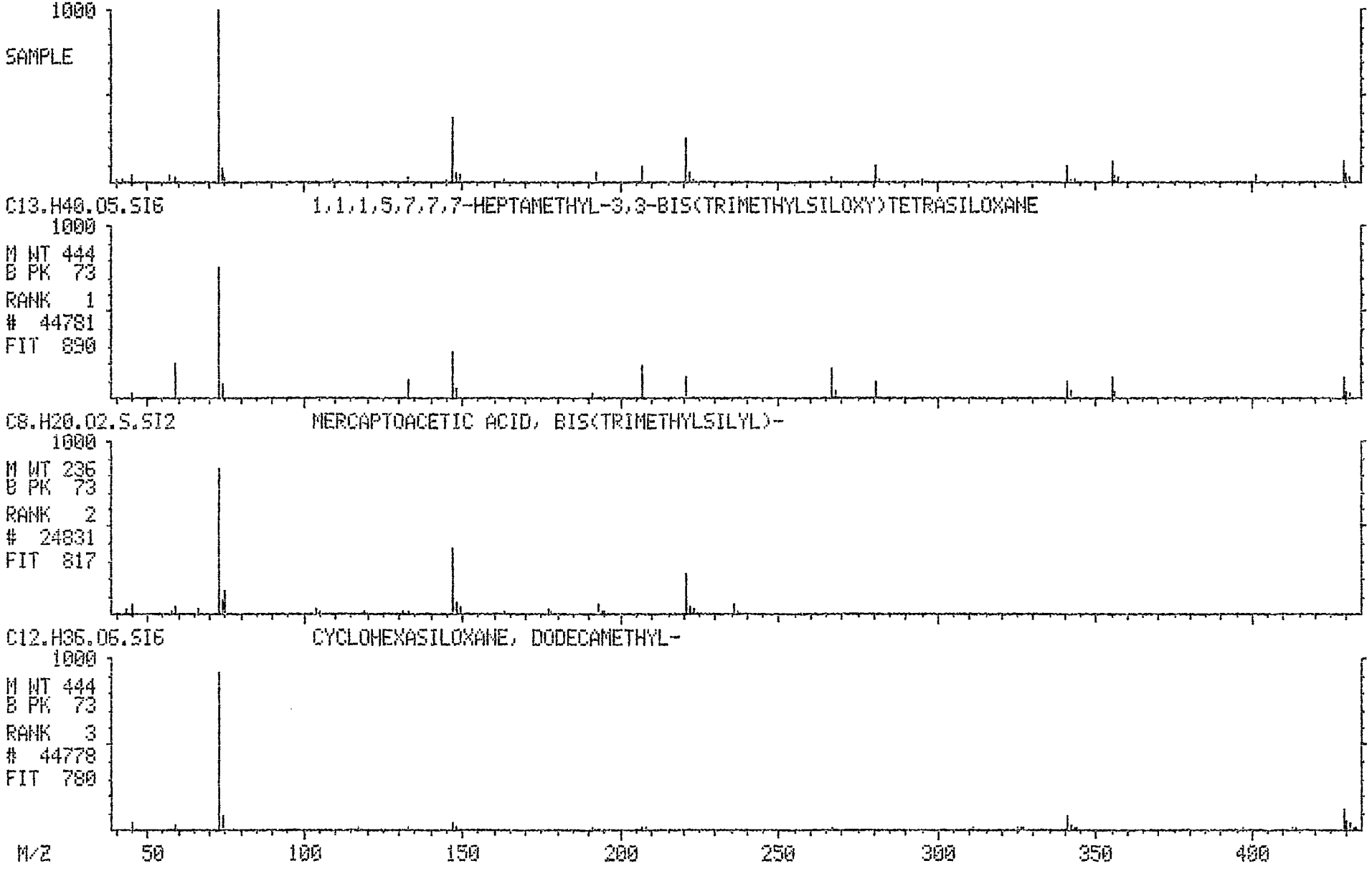
Mass	Inten	1	2	3	4	5
40	15					
42	5					
43			21			7
45	39	26	49	37	29	39
57	42					
58			20			
59	27	195	41	29	23	10
63						10
66			30			
73	999	758	840	925	998	632
74	78	82	80	76	82	57
75	32		130			49
91						12
104			23			
105			11			6
109	8					
117				3	16	
119			16			11
121						5
131			6		14	9
133	22	103	6	3	13	33
135						10
145	8					
147	373	269	377	37	374	46
148	53	49	61	6	60	9
149	34		34			23
163	10		9			11
170						9
177			25			
178			4			
179						8

192	48					
193			57			5
194			11			
195			7			3
205					3	
207	89	181		11	13	6
208				2		
209						14
221	247	124	231		229	
222	48		46		53	
223	17		32		28	17
224						4
236			48			
237			10			5
249					2	
251					2	8
267	31	168		4	44	33
268		43			11	
281	94	94			76	82
282	18				21	26
283					13	21
295	19					
297						11
311				5		
323					12	
324					4	
325				19		
326				6		
327				4		
339					19	
340					5	
341	96	89		85		
342	19	36		28		
343	9			19		
344				4		
355	125	117			118	125
356	41	36			41	42
357	21				27	20
358						4
370						1
397				2		
401	33					
413				4		
414				2		
427					3	
429	120	126		116		
430	49	43		50		
431	32	32		34		
432				10		
433				4		
443					67	
444					30	
445					20	

LIBRARY SEARCH (LIBRARYHB)
12/02/93 19:53:00 + 21:13
SAMPLE: EXQ11RE cs 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1273
CALI: EXQ11BR # 3

BASE M/Z: 73
RIC: 9216.



Library Search Data: EXQ11BR #1312 Base m/z: 192
12/02/93 19:53:00 + 21:52 Cali: EXQ11BR # 3 RIC: 11456.
Sample: EXQ11 ~~BE~~ QS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
71 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	17061	ANTHRACENE, 2-METHYL-
2	17059	PHENANTHRENE, 2-METHYL-
3	17070	PHENANTHRENE, 3-METHYL-
4	17068	ANTHRACENE, 1-METHYL-
5	17060	PHENANTHRENE, 9-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H12	192	192	925	990	925
2	C15.H12	192	192	919	980	919
3	C15.H12	192	192	925	978	929
4	C15.H12	192	192	905	977	910
5	C15.H12	192	192	918	969	923

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	613-12-7
2	___	___	___	___	2531-84-2
3	___	___	___	___	832-71-3
4	___	___	___	___	610-48-0
5	___	___	___	___	883-20-5

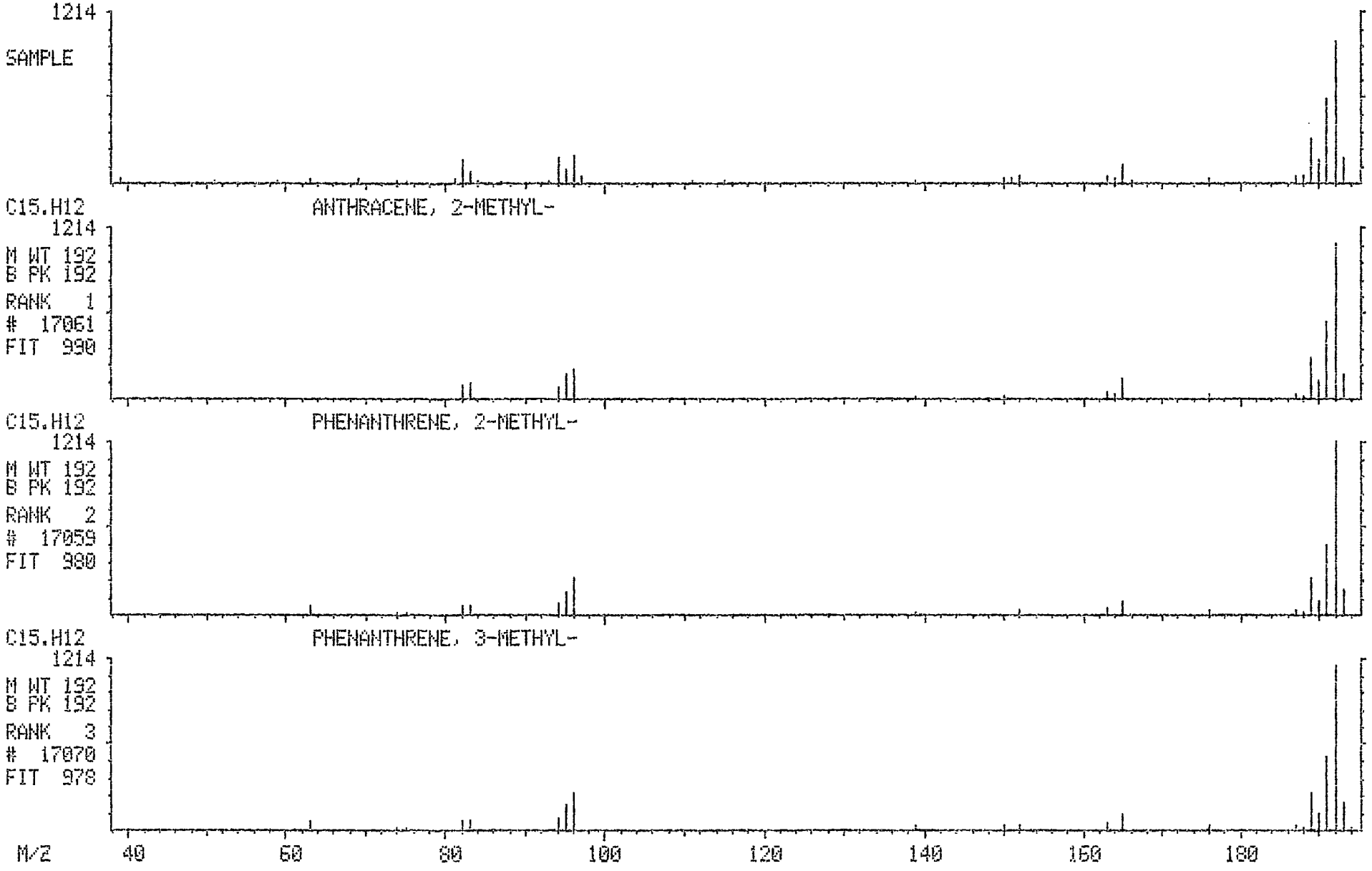
Mass	Inten	1	2	3	4	5
39	26					
51	9					
59	14					
63	35		57	58	26	54
69	35					
74	22		16	18	51	17
75	21		23	23	37	26
81	34					
82	157	95	71	66	43	79
83	78	108	62	61		78
84	6					
86					41	
87	17				53	
93	17					
94	179	79	75	79		79
95	94	171	168	179	63	146
96	196	204	262	250	96	264
97	46					
111	12					
115	15				38	
139	18	24	24	26	33	26
150	27	22		25	19	
151	30					
152	40		33	31	22	20
163	52	49	47	45	52	44
164	31	36			37	24
165	127	146	101	107	188	167
166	20				26	
176	39	32	31	30	31	35
187	40	32	30	28	44	33
188	42	22	21	21	44	21

190	158	131	102	109	146	72
191	591	548	481	511	548	492
192	999	1096	1214	1170	988	1245
193	171	184	185	186	154	190
194				14		14

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 21:52
SAMPLE: EXQ11RE CQ 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1312
CALI: EXQ11BR # 3

BASE M/Z: 192
RIC: 11456.



Library Search Data: EXQ11BR #1323 Base m/z: 190
12/02/93 19:53:00 + 22:03 Cali: EXQ11BR # 3 RIC: 25536.
Sample: EXQ11~~BE~~ CS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
294 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	16705	4H-CYCLOPENTA[DEF]PHENANTHRENE
2	25346	CIS-4-(4'-TERT-BUTYLCYCLOHEXYL)-4-METHYLPENTAN-2-ONE
3	12234	CYCLOHEXENE, 3-(2,2-DIMETHYLPROPOXY)-
4	28614	2H-1-BENZOPYRAN-2-ONE, 7-METHOXY-6-(3-METHYL-2-OXOBUTYL)-
5	16581	PYRIMIDINE, 6-OXO-4-(3-FLUOROPHENYL)-1,6-DIHYDRO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H10	190	190	723	810	879
2	C16.H30.O	238	43	32	770	36
3	C11.H20.O	168	81	36	769	43
4	C15.H16.O4	260	189	493	768	630
5	C10.H7.O.N2.F	190	190	565	755	696

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	203-64-5
2	___	___	___	___	63779-28-2
3	___	___	___	___	54965-85-4
4	___	___	___	___	38409-25-5
5	___	___	___	___	85979-55-1

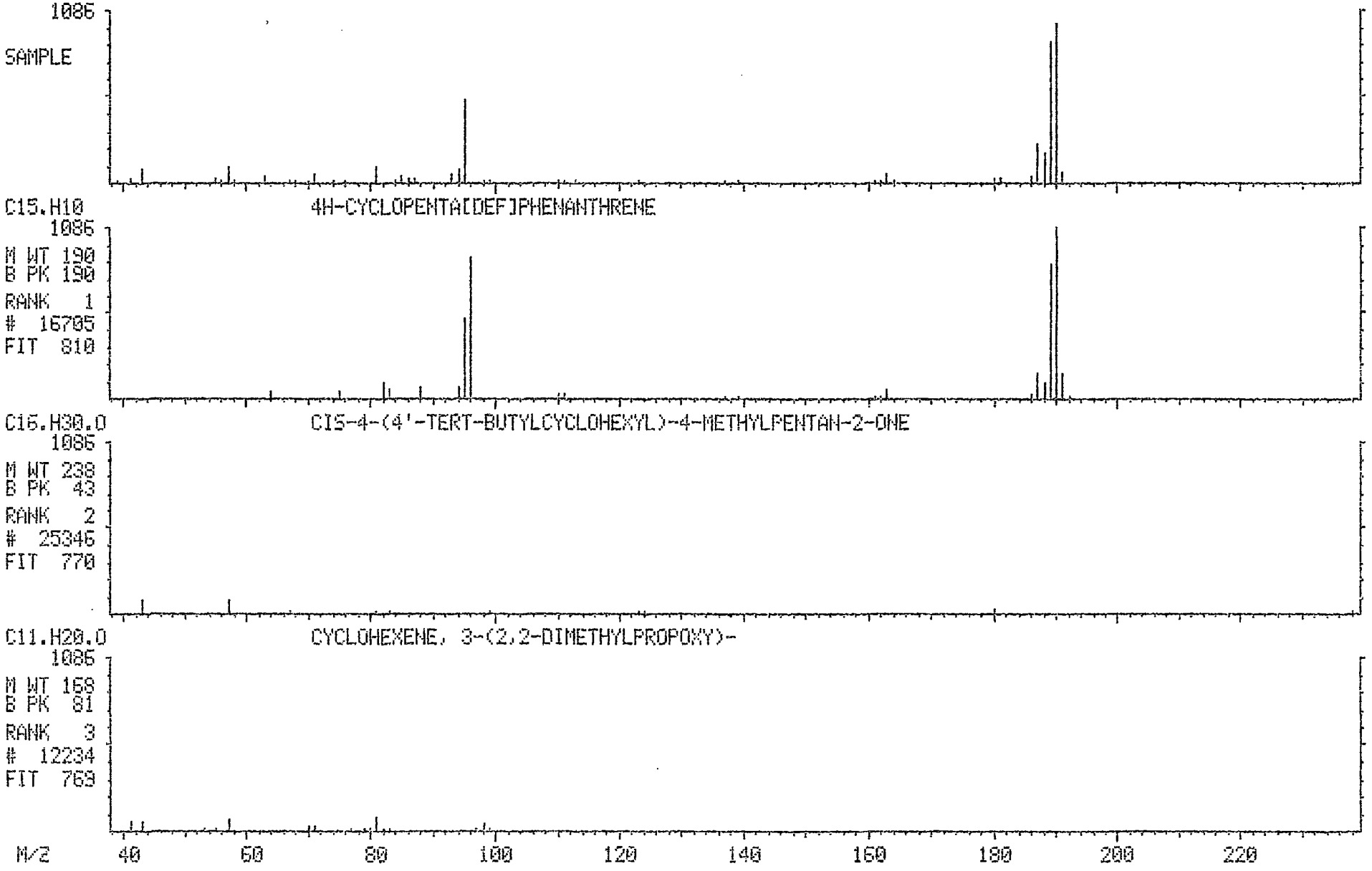
Mass	Inten	1	2	3	4	5
39	19					
41	34			61	34	
43	86		89	59	237	
44					39	
51					14	
53				19		
55	22			14		
56	11					
57	94		80	74		94
58	13					
63	38					
64		44				
67	9		17			
68	10					244
70	10			29		
71	60			24	60	
74	17					
75		48				125
76	10					
77				5	20	
78					10	
79				11		
80				9		
81	96		16	84		
82		99		9		
83		63	12	4		
84	7					
85	38					
86	24					
87	22					
88		66				

90					7	
93	60					
94	85	71				85
95	526	508				227
96		893				48
97				3		
98	16			37		
99	20		20	2		
102					15	
103					76	
107						134
108						120
110	12	22				
111	9	22				
113	15					
118					24	
119					9	
120						55
121						33
122						246
123	2		17			
124			10			
131					89	
134						66
135						81
137	4	8				
139	7	9				
146					2	
160					10	
161	16	18			16	34
162	20	20			1	162
163	57	63				30
164	9					
171						24
175					8	
180	29		29			
181	31					
186	37	23				
187	250	160				
188	187	103				
189	887	858			1050	697
190	999	1085			799	1117
191	72	159			92	123
192		14				
203					5	
238			0			
260					225	
261					50	

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 22:03
SAMPLE: EXQ11RE CS 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1323
CALI: EXQ11BR # 3

BASE M/Z: 190
RIC: 25536.



Library Search Data: EXQ11BR #1357 Base m/z: 55
12/02/93 19:53:00 + 22:37 Cali: EXQ11BR # 3 RIC: 13008.
Sample: EXQ11~~BE~~ CS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
395 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6458	CYCLOOCTANE, 1,4-DIMETHYL-, CIS-
2	4764	1-HEPTANOL, 6-METHYL-
3	6408	CYCLOPENTANE, 1-METHYL-3-(2-METHYLPROPYL)-
4	9240	CYCLOPENTANONE, 2-METHYL-4-(2-METHYLPROPYL)-
5	12262	4-DODECENE, (E)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H20	140	55	487	971	489
2	C8.H18.O	130	55	453	952	453
3	C10.H20	140	55	528	950	538
4	C10.H18.O	154	55	527	948	536
5	C12.H24	168	55	531	948	549

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	13151-99-0
2	___	___	___	___	1653-40-3
3	___	___	___	___	29053-04-1
4	___	___	___	___	69770-96-3
5	___	___	___	___	7206-15-7

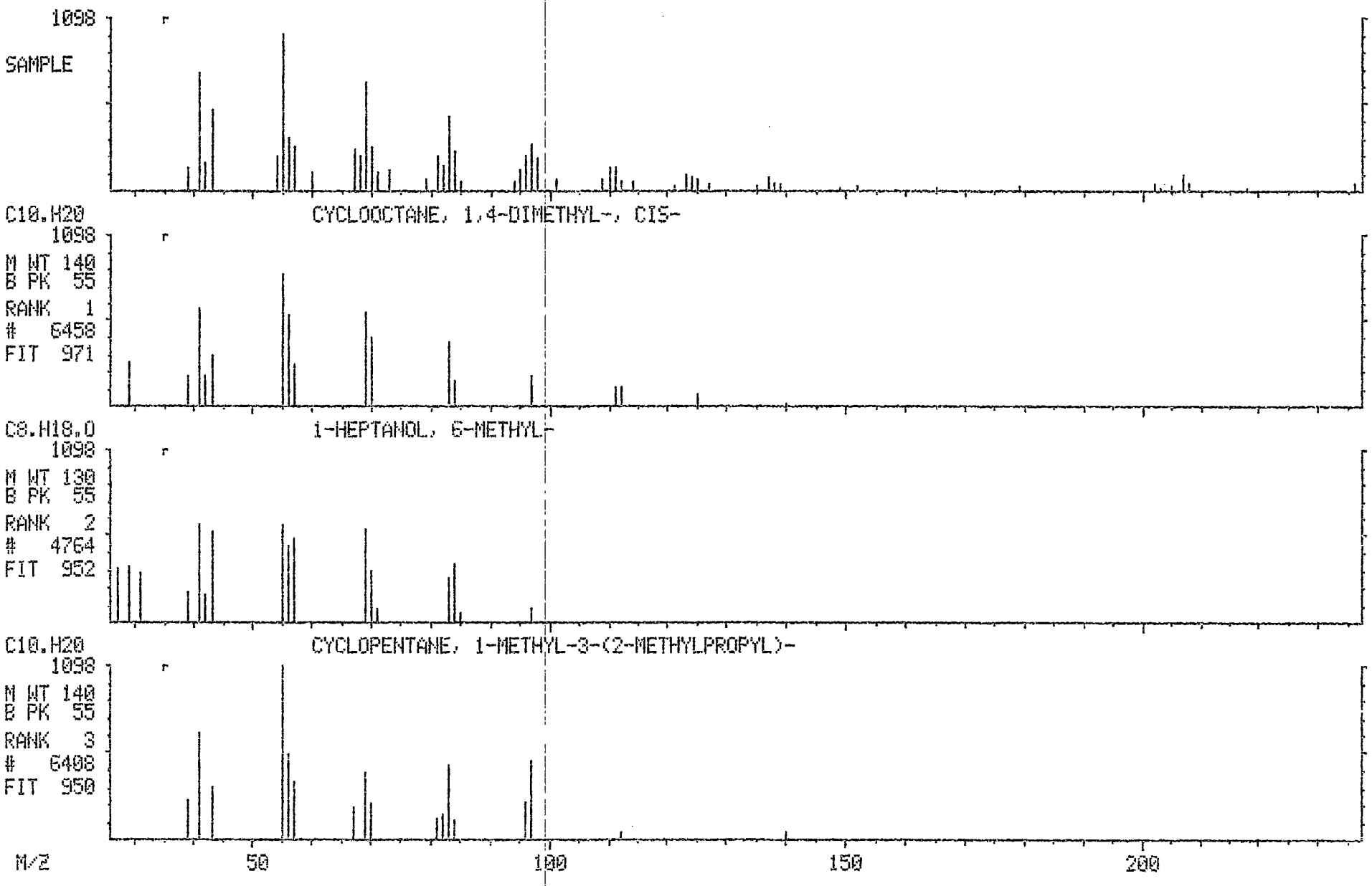
Mass	Inten	1	2	3	4	5
27			332		339	
29		272	353			349
31			305			
39	139	184	195	254	271	183
41	751	633	611	674	647	705
42	181	193	168			199
43	514	324	565	343	331	499
54	223					161
55	999	848	614	1098	1142	935
56	332	582	479	539	579	559
57	274	260	525	364	273	308
60	110					
67	263			206	218	159
68	223					
69	687	595	586	428	415	571
70	278	440	324	229	198	370
71	122		91			
73	132					
79	75					
81	217			127	151	
82	160			160	177	
83	467	412	279	463	486	403
84	251	157	371	115	105	263
85	61		61			
94	59					
95	132					
96	225			228	194	
97	285	192	80	501	513	227
98	202					104
101	66					

110	143				
111	143	120			78
112	53	121	44	39	85
114	56				
121	22				
123	105				
124	84				
125	78	76			
127	50				
135	29				
137	83				
138	38				
139	42				
140		8	50	45	9
149	8				
152	28				
165	18				
167					2
168					63
179	23				
202	36				
203	11				
205	29				
207	97				
208	42				
218	16				
236	40				

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 22:37
SAMPLE: EXQ11RE CS 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1357
CALI: EXQ11BR # 3

BASE M/Z: 55
RIC: 13008.



Library Search Data: EXQ11BR #1374 Base m/z: 43
12/02/93 19:53:00 + 22:54 Cali: EXQ11BR # 3 RIC: 23040.
Sample: EXQ11BR CS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
90 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	30157	GLYCINE, N-METHYL-N-(1-OXODODECYL)-
2	28070	HEXADECANOIC ACID
3	32273	DODECANAMIDE, N,N-BIS(2-HYDROXYETHYL)-
4	13105	DECANOIC ACID
5	16010	1-DECANOL, 2-ETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H29.O3.N	271	73	732	975	732
2	C16.H32.O2	256	43	808	969	830
3	C16.H33.O3.N	287	73	701	963	715
4	C10.H20.O2	172	60	612	944	634
5	C12.H26.O	186	57	400	915	420

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	97-78-9
2	___	___	___	___	57-10-3
3	___	___	___	___	120-40-1
4	___	___	___	___	334-48-5
5	___	___	___	___	21078-65-9

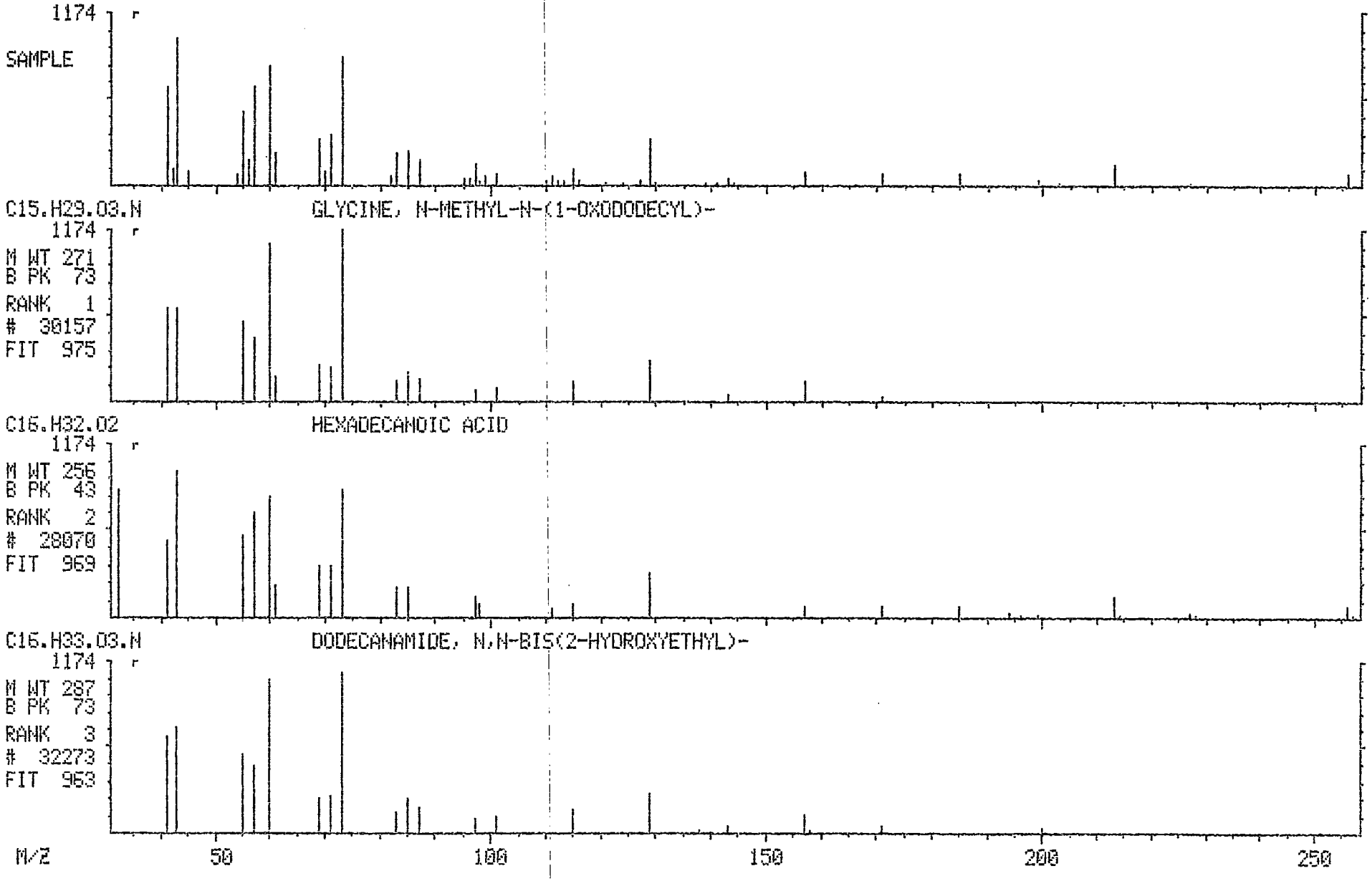
Mass	Inten	1	2	3	4	5
29					396	202
32			854			
41	679	648	513	654	544	369
42	115					104
43	999	637	989	716	695	851
45	86					
54	80					
55	503	546	548	528	592	351
56	169					197
57	666	433	701	457	532	904
60	819	1082	819	1052	1143	
61	225	166	214		153	
69	319	253	337	231	210	180
70	91					285
71	347	237	346	253	365	319
73	875	1174	861	1090	932	
82	61					
83	215	133	206	141	132	190
84					95	91
85	228	209	196	235		170
87	170	156		172	112	
95	46					
96	44					
97	141	83	146	93		106
98	33		95		95	63
99	61					46
101	84	101		115		
110	24					
111	65		67			58
112	26				67	35

115	108	140	87	133	72	
116	28					
121	1					
124	11					
125						23
126						15
127	25					
129	317	281	292	259	287	
130	20					
138				15		
139	5					5
140						3
141	9					
143	46	41		53	46	
144	6					
157	96	138	83	128		
158				6		
171	77	32	84	42		
172					33	
185	75		78			
194			24			
196			6			
199	30		21			
200				27		
203	10					
213	134		136			
214			15			
227	21		26			
228			6			
256	72		73			
257			12			

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 22:54
SAMPLE: EXQ11RE CS 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1374
CALI: EXQ11BR # 3

BASE M/Z: 43
RIC: 23040.



Library Search Data: EXQ11BR #1474 Base m/z: 218
12/02/93 19:53:00 + 24:34 Cali: EXQ11BR # 3 RIC: 28192.
Sample: EXQ11~~BE~~ CS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
73 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	21965	BENZO[B]NAPHTHO[2,3-D]FURAN
2	21945	BENZIMIDAZO[2,1-A]ISOQUINOLINE
3	21977	1,1'-BIBICYCLO[2.2.2]OCTANE
4	21964	1-HYDROXYPYRENE
5	21947	1H-PHENANTHRO[9,10-D]IMIDAZOLE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H10.O	218	218	654	957	668
2	C15.H10.N2	218	218	435	935	462
3	C16.H26	218	218	450	905	498
4	C16.H10.O	218	218	541	825	632
5	C15.H10.N2	218	218	455	798	467

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	243-42-5
2	___	___	___	___	239-44-1
3	___	___	___	___	69576-82-5
4	___	___	___	___	5315-79-7
5	___	___	___	___	236-02-2

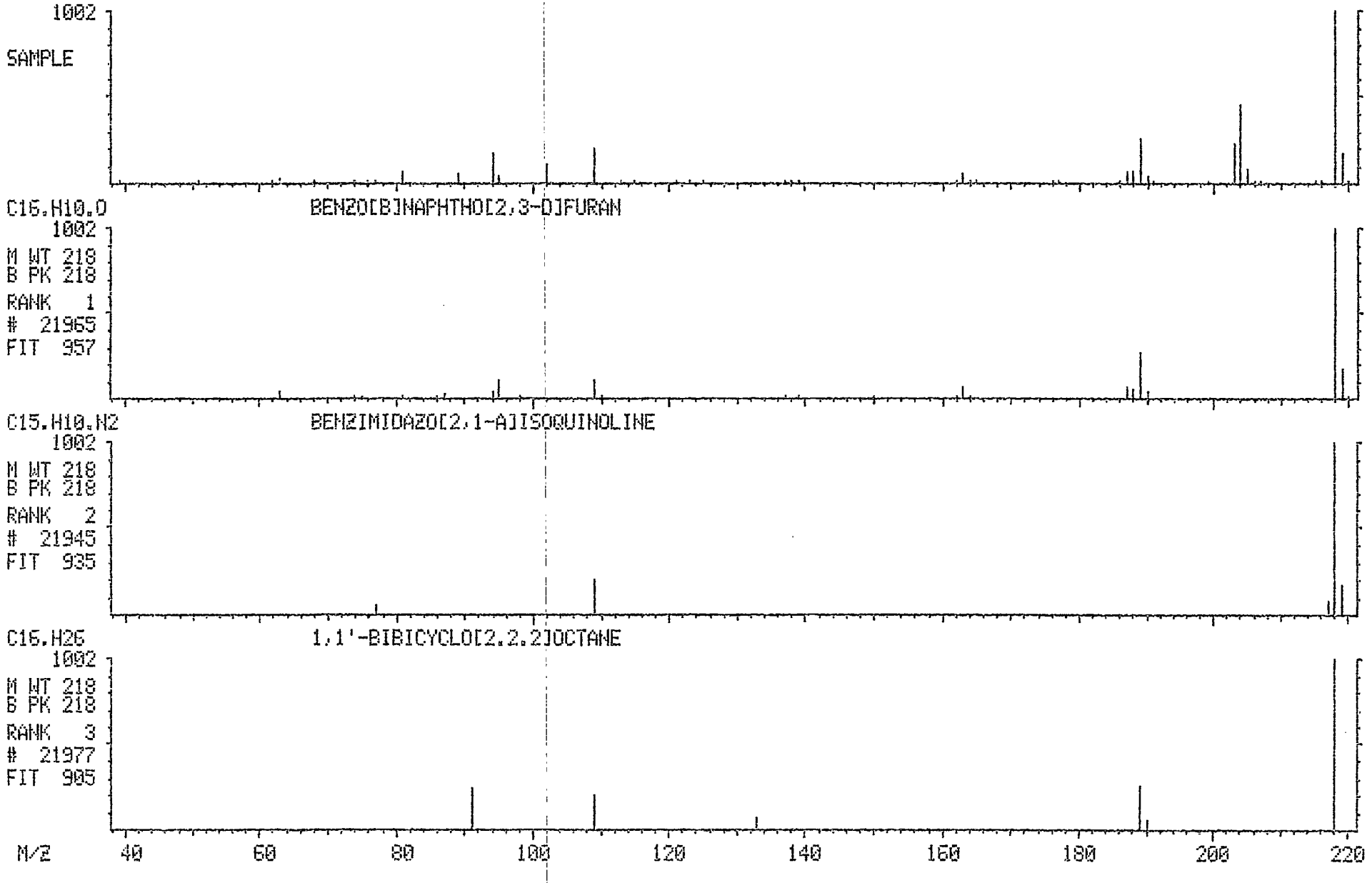
Mass	Inten	1	2	3	4	5
39	17					
40					397	
44					66	
51	6					
62	13					
63	25	36				25
68	5					
74	11	11				
75		9			27	
76	16				198	
77	5		50			
81	68	20			30	
86		14				
87		21				
89	57					
91				243		
94	175	38			285	
95	37	112				
98		11				
102	104					
109	196	111	195	195	79	
110		18				
113	10					
115	3					
121	2					
123	10					
125	3					
133				66		
137	8	6				
138	3					

150		5				
162	13	12				
163	52	65			30	83
164	14	13				67
165	4					16
176	8					
177	4					
186	2					
187	69	70			58	
188	63	50			40	24
189	259	270		249	264	43
190	42	41		52	69	448
191	7					86
199	4					
203	223					
204	454					
205	74					
206	1					
207	4					
215	6					
216	16					
217			80		212	50
218	999	1001	1001	999	988	1018
219	170	172	168		183	152
220	17	14				

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 24:34
SAMPLE: EXQ11BR as 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1474
CALI: EXQ11BR # 3

BASE M/Z: 218
RIC: 28192.



Library Search Data: EXQ11BR #1497 Base m/z: 218
12/02/93 19:53:00 + 24:57 Cali: EXQ11BR # 3 RIC: 19744.
Sample: EXQ11BR CS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
72 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	22457	9-ANTHRACENECARBOXALDEHYDE, OXIME, (E)-
2	22456	9-PHENANTHRENECARBOXALDEHYDE, OXIME, (E)-
3	19191	INDENO(1,2,3-IJ)ISOQUINOLINE
4	21965	BENZO[B]NAPHTHO[2,3-D]FURAN
5	19190	ACENAPHTHO(1,2-B)PYRIDINE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H11.O.N	221	203	229	1000	229
2	C15.H11.O.N	221	203	229	997	229
3	C15.H9.N	203	203	359	945	374
4	C16.H10.O	218	218	483	944	502
5	C15.H9.N	203	203	374	935	385

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	1942-19-4
2	___	___	___	___	51873-96-2
3	___	___	___	___	206-56-4
4	___	___	___	___	243-42-5
5	___	___	___	___	206-49-5

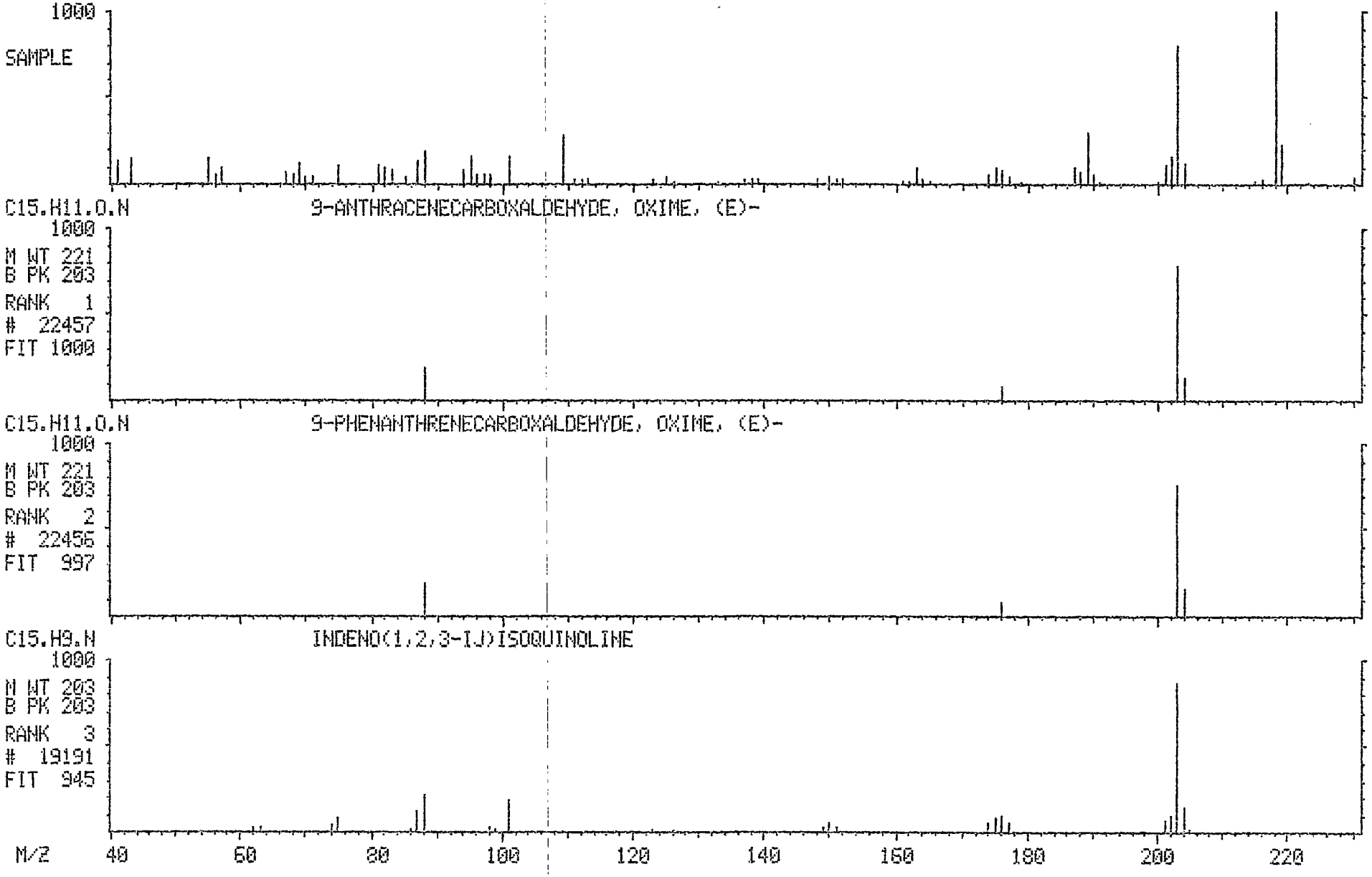
Mass	Inten	1	2	3	4	5
41	135					
43	153					
55	143					
56	47					
57	99					
62				21		24
63				21	88	16
67	71					
68	54					
69	117					
70	40					
71	42					
74				36	35	28
75	104			85	27	66
81	102				62	
82	88					
83	82					
85	37					
86				13	30	
87	133			125	43	114
88	190	191	191	214		293
94	84				78	
95	165				229	
96	50					
97	55					
98	57			20	24	20
99				19		18
101	157			185		120
109	281				235	
110					39	
[illegible]	[illegible]					

112	21					
113	28					
123	23			13		17
125	34					
126	15			12		12
133	19					
137	24				11	
138	22					
139	24				26	
148	22					
149				32		32
150	46			53	12	64
151	28			21		20
152	28					18
161	8					
162	17				19	
163	91				93	13
164	32				16	
165	11					
174	56			51		47
175	91			79		70
176	80	80	80	98		122
177	37			59		64
179	16					
187	93				87	
188	68				61	
189	295				320	
190	50				48	
191	15					
200	8					
201	108			72		61
202	158			89		97
203	799	790	754	867		867
204	124	133	165	143		143
205				11		
215	18					
216	24					
218	999				1044	
219	228				179	
220					15	
223	7					
230	36					

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 24:57
SAMPLE: EXQ11RE as 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1497
CALI: EXQ11BR # 3

BASE M/Z: 218
RIC: 19744.



Library Search Data: EXQ11BR #1537 Base m/z: 216
12/02/93 19:53:00 + 25:37 Cali: EXQ11BR # 3 RIC: 23520.
Sample: EXQ11~~BE~~ QS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
175 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	21646	11H-BENZO[A]FLUORENE
2	21641	PYRENE, 4-METHYL-
3	21643	PYRENE, 2-METHYL-
4	21645	11H-BENZO[B]FLUORENE
5	21644	PYRENE, 1-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C17.H12	216	216	884	939	918
2	C17.H12	216	216	858	918	887
3	C17.H12	216	216	847	910	882
4	C17.H12	216	216	857	909	914
5	C17.H12	216	216	831	895	895

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	238-84-6
2	___	___	___	___	3353-12-6
3	___	___	___	___	3442-78-2
4	___	___	___	___	243-17-4
5	___	___	___	___	2381-21-7

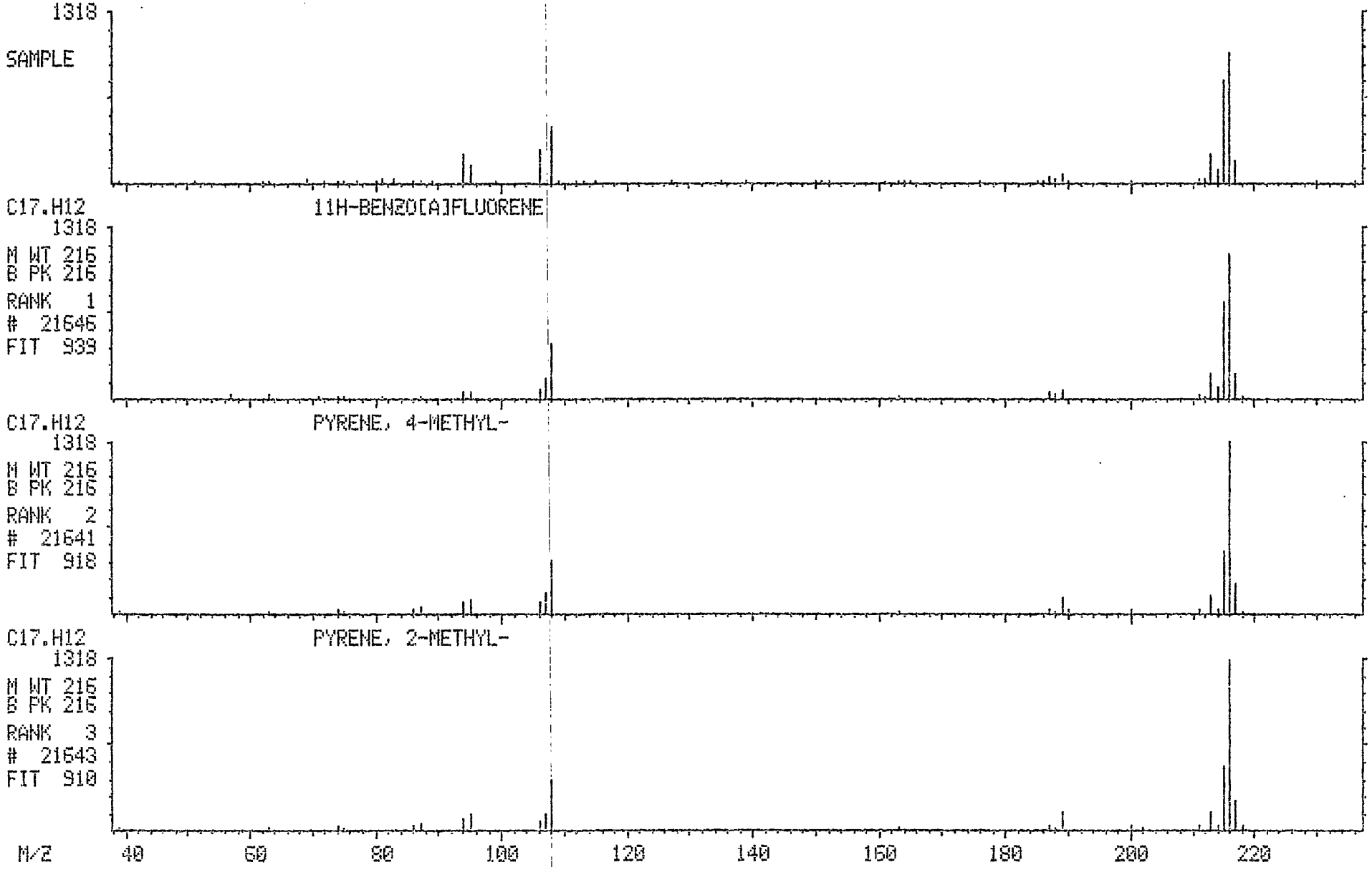
Mass	Inten	1	2	3	4	5
39	15		18	18		
51	10					
57		28				
62	4					
63	23	29	17	16		
69	32					
71		16				
72	3					
74	9	15	29	26	15	26
75	9	15	20	18		
77	6					
80	9					
81	36	15				
83	36					
86	13		33	32	41	39
87	15	23	45	47	53	55
89	10					
94	225	49	82	84	58	86
95	147	49	100	126	33	128
98					32	
99	13					
106	255	77	87	76	68	80
107		152	153	130	137	133
108	438	428	403	378	349	369
109	21					
112	7					
113	16					
115	9					
127	3					
135	7					

150	11				7	10
151	6					
152	3					
161	7					
163	21	25	20	22	27	22
164	15					
165	9				15	
176	10					
185	4					
186	7					
187	52	55	42	40	56	40
188	30	28	26	25	27	25
189	75	68	125	142	65	137
190	17		34			
200	6		29	39		34
202				23		125
203						23
211	36	34	31	29	27	31
212	37	22			22	
213	234	188	147	148	164	159
214	102	89	41	40	72	45
215	796	732	470	496	824	655
216	999	1104	1317	1304	1062	1201
217	171	197	235	233	193	206
218		21	20	31	31	18
228					55	
229					12	
230	9					
236	4					

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 25:37
SAMPLE: EXQ11BR CS 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1537
CALI: EXQ11BR # 3

BASE M/Z: 216
RIC: 23520.



Library Search Data: EXQ11BR #1549 Base m/z: 215
12/02/93 19:53:00 + 25:49 Cali: EXQ11BR # 3 RIC: 21440.
Sample: EXQ11BR CS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
215 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	21646	11H-BENZO[A]FLUORENE
2	21645	11H-BENZO[B]FLUORENE
3	21641	PYRENE, 4-METHYL-
4	21643	PYRENE, 2-METHYL-
5	21644	PYRENE, 1-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C17.H12	216	216	901	944	916
2	C17.H12	216	216	877	921	916
3	C17.H12	216	216	854	899	869
4	C17.H12	216	216	843	890	871
5	C17.H12	216	216	837	886	893

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	238-84-6
2	___	___	___	___	243-17-4
3	___	___	___	___	3353-12-6
4	___	___	___	___	3442-78-2
5	___	___	___	___	2381-21-7

Mass	Inten	1	2	3	4	5
39	13			16	16	
41	22					
42	1					
51	8					
57		21				
58	7					
63	21	23		17	17	
69	27					
71	26	16				
74	3	15	30	18	15	14
75	10	15		12	11	
80	4					
81	52	16				
83	30					
86	10		41	28	27	32
87	15	20	53	38	40	46
94	255	44	57	69	71	71
95	49	43	34	83	107	106
96	14					
97	11					
98	13		33			
105	25					
106	191	67	60	67	60	63
107	96	134	120	118	102	104
108	423	378	305	310	298	290
113	10					
115	3					
122	3					
125	9					
135	5					

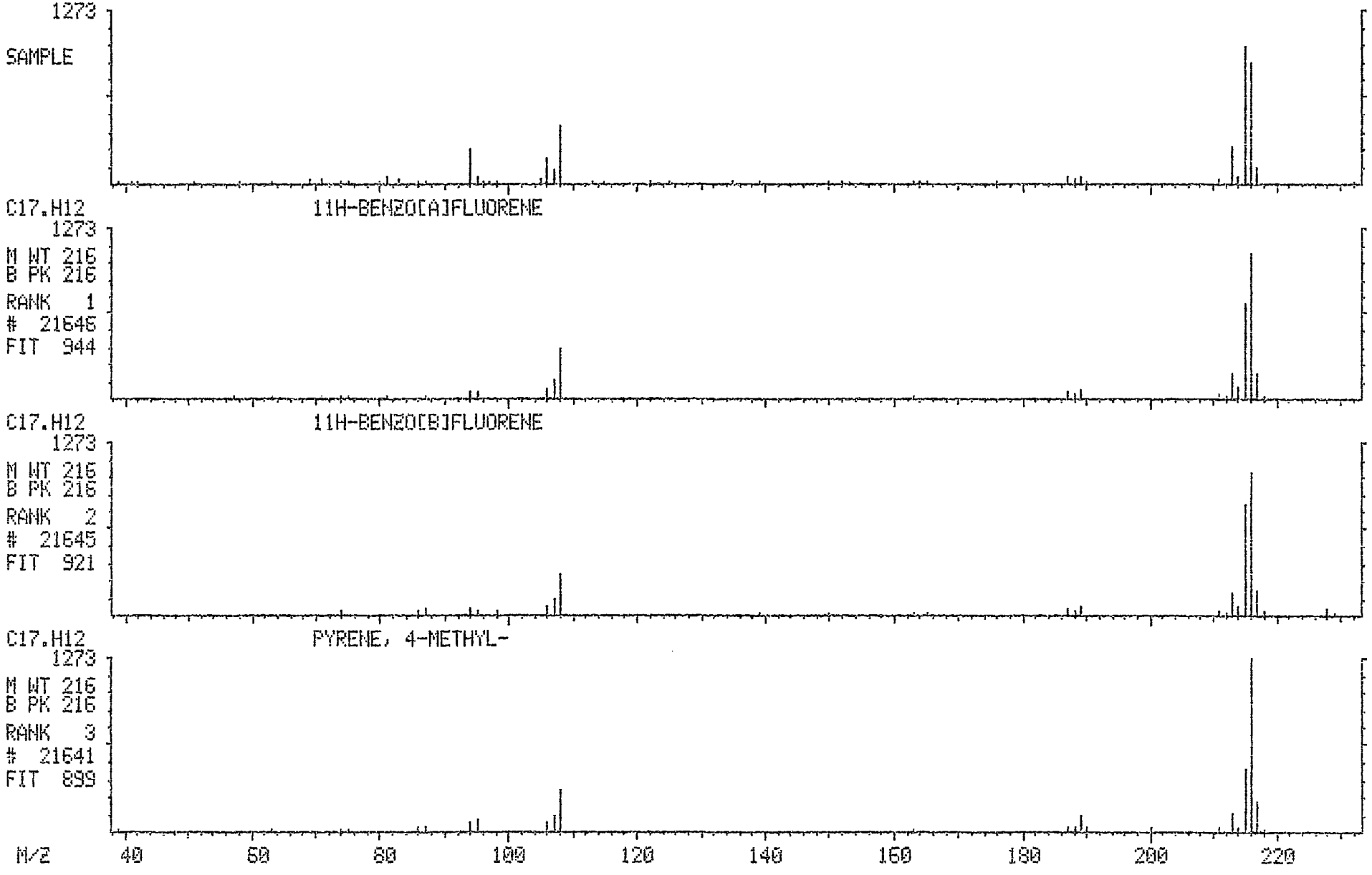
150	8		8			8
152	1					
153	9					
163	21	24	25	19	20	20
164	8					
165	12		13			
176	4					
187	49	47	50	36	35	36
188	27	29	28	26	26	25
189	58	61	60	115	133	129
190	10			37		
200				28	38	34
202					22	122
203						23
211	37	33	26	30	28	30
212		22	21			
213	277	183	161	141	143	155
214	50	87	71	39	38	44
215	999	717	811	451	480	644
216	880	1082	1047	1273	1262	1180
217	112	193	190	227	225	203
218		21	30	19	30	18
228			54			
229			12			
232	9					

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 25:49
SAMPLE: EX011BR CS 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EX011BR #1549
CALI: EX011BR # 3

BASE M/Z: 215
RIC: 21440.

1264



Library Search Data: EXQ11BR #1558 Base m/z: 218
12/02/93 19:53:00 + 25:58 Cali: EXQ11BR # 3 RIC: 7496.
Sample: EXQ11BR CS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
205 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	21897	.DELTA.2-1,3,4-OXADIAZOLIN-5-ONE, 2-BUTYL-4-PHENYL-
2	21945	BENZIMIDAZO[2,1-A]ISOQUINOLINE
3	19506	3,10B-DIHYDROFLUORANTHENE
4	19500	2,3-DIHYDROFLUORANTHENE
5	11024	EXO-7-(AZIDOCARBONYL)BICYCLO[4.1.0]HEPT-3-ENE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H14.O2.N2	218	218	291	943	303
2	C15.H10.N2	218	218	386	943	386
3	C16.H12	204	202	234	919	243
4	C16.H12	204	202	236	914	246
5	C8.H9.O.N3	163	91	82	875	84

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	28669-42-3
2	___	___	___	___	239-44-1
3	___	___	___	___	37980-07-7
4	___	___	___	___	30339-87-8
5	___	___	___	___	87160-65-4

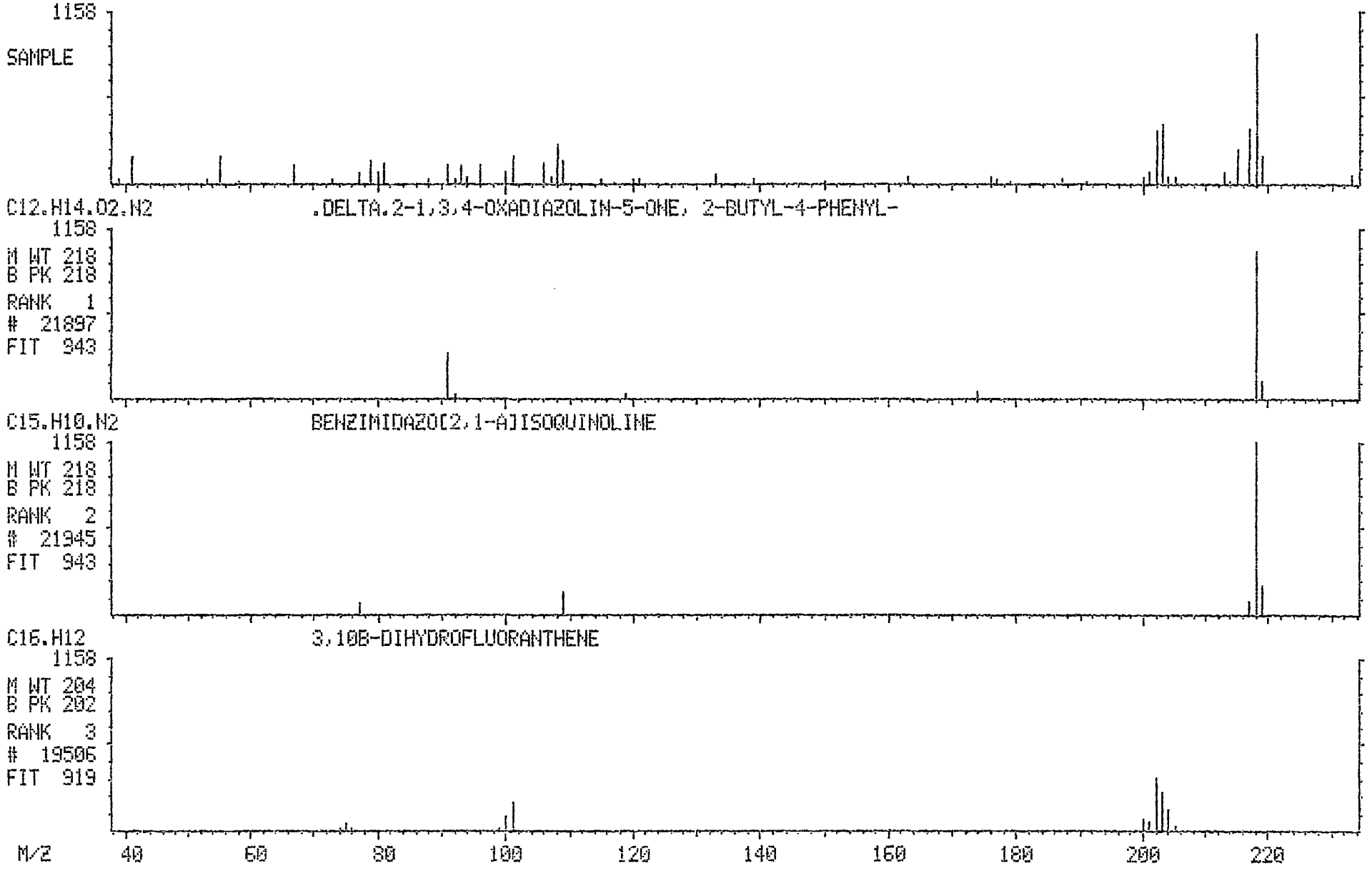
Mass	Inten	1	2	3	4	5
39	31					
41	180					
53	34					
55	177					
58	6					
62					3	
63					6	
67	124					
73	37					
74				15		
75				51		
76				20		
77	77		77			
79	146					118
80	76					
81	136					
87					31	
88	30				52	
89					42	
91	117	315				191
92	25	25				81
93	130					103
94	52					
96	119					
99				20	15	
100	83			88	85	
101	187			182	163	
106	143					48
107	54					
108	256					

115	32					
117	14					
119		29				
120	24					28
121	25					80
133	56					
134						18
139	24					
150	18					
163	41					41
174		39				
176	47					
177	31					
179	17					
187	27					
191	11					
200	45			77	81	
201	72			64	67	
202	350			354	354	
203	400			257	241	
204	46			138	137	
205	51			24	31	
213	81					
214	9					
215	235					
217	363		92			
218	999	999	1157			
219	179	118	195			
233	57					

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 25:58
SAMPLE: EXQ11RE Q8 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1558
CALI: EXQ11BR # 3

BASE M/Z: 218
RIC: 7496.



Library Search Data: EXQ11BR #1646 Base m/z: 234
12/02/93 19:53:00 + 27:26 Cali: EXQ11BR # 3 RIC: 11584.
Sample: EXQ11BR CS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
89 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	24609	10,10-DIFLUORO-9-OXA-10-SILA-9,10-DIHYDROPHENANTHRENE
2	24692	BENZO[B]NAPHTHO[1,2-D]THIOPHENE
3	24693	BENZO[B]NAPHTHO[2,1-D]THIOPHENE
4	16118	1H-INDOLE, 1-(TETRAHYDRO-2-FURANYL)-
5	24591	4H-PYRIDO[1,2-A]PYRIMIDINE-3-CARBOXYLIC ACID, 9-HYDROXY-4-OXO-, ETH*

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H8.O.F2.SI	234	234	600	955	625
2	C16.H10.S	234	234	879	953	915
3	C16.H10.S	234	234	839	934	894
4	C12.H13.O.N	187	117	85	834	93
5	C11.H10.O4.N2	234	234	524	774	626

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	31027-82-4
2	___	___	___	___	205-43-6
3	___	___	___	___	239-35-0
4	___	___	___	___	50640-00-1
5	___	___	___	___	50876-74-9

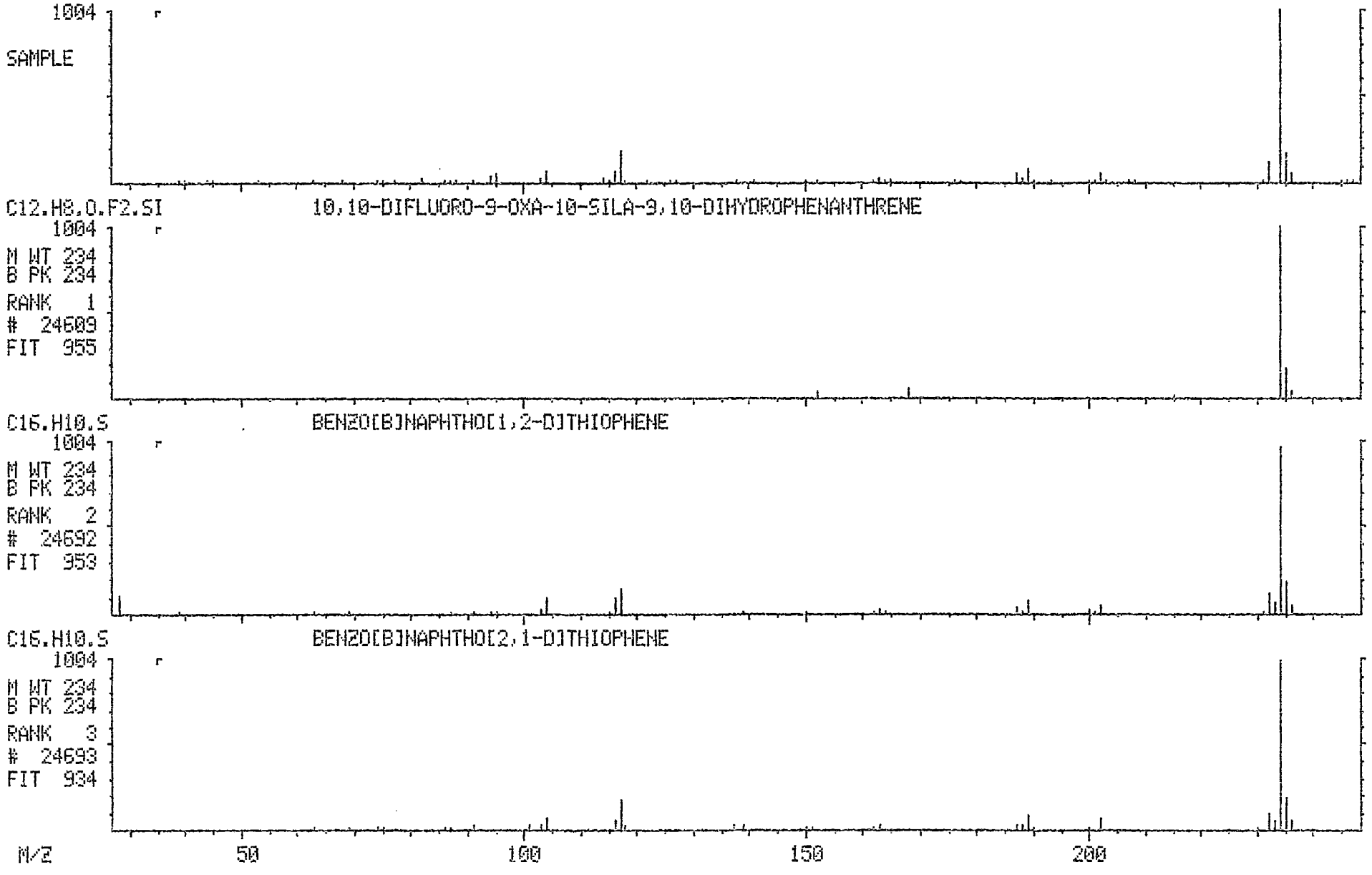
Mass	Inten	1	2	3	4	5
28			108			
39	12		7			109
40	8					
44	10					83
45	12					
53	3					78
55						36
63	5		10	12		
65						31
66						45
68	9					
69			14	11		
71					39	
74	4			7		
75	10			7		
77	6					
78						13
82	25					
86	4			14		
87	8		12	15		
88	6					
91	11		15	20		
93						32
94	39		18			63
95	53		16			13
101				22		
103	21		26	22		
104	72		99	62		
106						23
110						46

115	11		17			
116	65		93	60	11	
117	190		150	174	190	
118	18			23	18	
120						32
121						118
122	10					
126	3					
127	2					
130					8	
134						86
137				22		
138	13					
139			11	22		
141	2					
150	11		7	9		11
151				8		
152	9	38				
160						40
161						30
162	11		9	12		165
163	25		31	32		
164	3		9			
165	12					
168		59				
176	6					
177	8					
178						25
187	47		41	31	62	
188	29		20	24	8	2
189	77		76	74		91
190	15			14		13
193	0					
200	14		24	20		
201	13		13			
202	50		49	65		
203	9					
206						11
207	8					
208	6					
215		9				
230				16		
231	16		11			
232	114		127	96		
233			61	53		
234	999	1004	968	994		1034
235	168	179	185	187		131
236	55	39	60	60		
245	9					
246	9					
247	3					

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 27:26
SAMPLE: EXQ11BR cg 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1646
CALI: EXQ11BR # 3

BASE M/Z: 234
RIC: 11584.



Library Search Data: EXQ11BR #1654 Base m/z: 226
12/02/93 19:53:00 + 27:34 Cali: EXQ11BR # 3 RIC: 18432.
Sample: EXQ11~~RE~~ cg 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
124 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	23859	3,4-DIHYDROCYCLOPENTA(CD)PYRENE (ACEPYRENE)
2	23858	BENZO[C]PHENANTHRENE
3	23572	METHANONE, (2-NITROPHENYL)PHENYL-
4	9525	ETHANONE, 1-(2-ETHYL-4-METHYL-1,3,2-DIOXABOROLAN-4-YL)-
5	18609	1,2,4,5-TETRAZINE, 1,4-DIBUTYLHEXAHYDRO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H12	228	228	774	950	784
2	C18.H12	228	228	788	903	823
3	C13.H9.O3.N	227	227	117	889	131
4	C7.H13.O3.B	156	113	133	867	150
5	C10.H24.N4	200	113	111	831	128

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	25732-74-5
2	___	___	___	___	195-19-7
3	___	___	___	___	2243-79-0
4	___	___	___	___	74646-02-9
5	___	___	___	___	35035-70-2

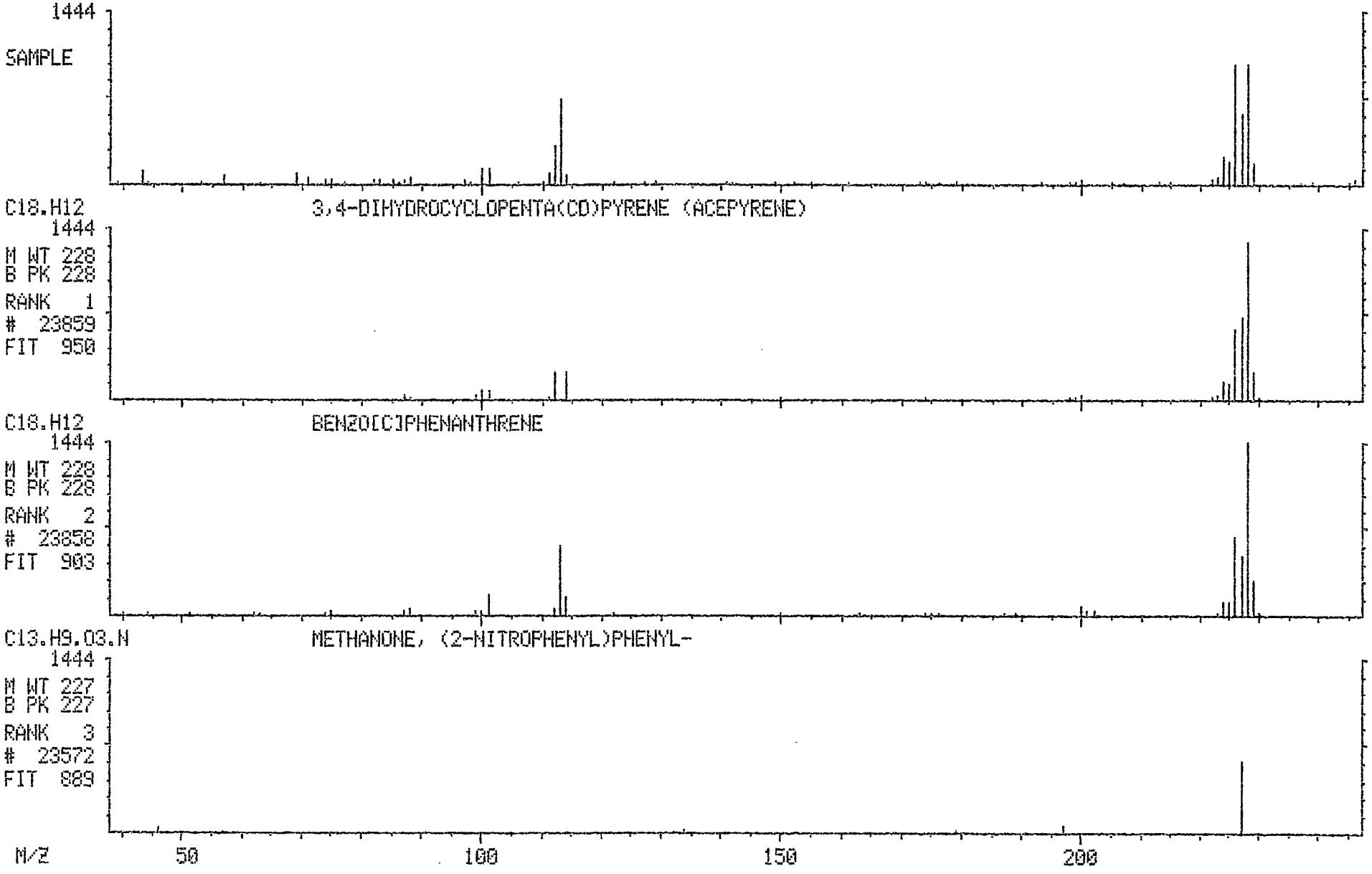
Mass	Inten	1	2	3	4	5
27					90	
28					124	
29					126	
39	15					
40			9			
41					19	157
42						159
43	108				109	109
44	13		23			
45						71
46				47		
51			16			
53	12					
55					24	
56					19	
57	83				168	300
62			14			
63	9		26			
69	98					
71	58					59
72						7
74	30		25			
75	32		33			
77	13					
82	40					
83	48				48	
84						33
85	42				28	
86	14					
87	43	37	37			

97	42				40	
98	25				46	
99		30	40			15
100	131	86	31			62
101	128	76	172			126
106	20					
110	18					
111	90	27			99	
112	326	224	51		219	
113	706		583		809	781
114	85	223	158		47	54
122	22		13			
125					68	
126					72	
127	15					
129	12					
134				23		
141	19					
142	5					
149	25					
150		17	25			
152	14					
155	14				14	
161	12					
163			9			
173	22					
174	24	18	17			
175			9			
176	5		9			
179	12			12		
187			14			
189			14			
193	19					
197				60		
198	21	25				7
199	25	19				
200	39	40	82			49
201			31			7
202			32			
205	19					
207	14					
213	5					
215	17					
222	38	24				
223	62	33	21			
224	235	144	123			
225	195	133	109			
226	999	598	647			
227	602	689	495	603		
228	994	1333	1444			
229	176	237	282			
230		20	26			
237	20					
239	15					
245	22					
246	31					

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 27:34
SAMPLE: EXQ11RE CS 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1654
CALI: EXQ11BR # 3

BASE M/Z: 226
RIC: 18432.



Library Search Data: EXQ11BR #1670 Base m/z: 129
12/02/93 19:53:00 + 27:50 Cali: EXQ11BR # 3 RIC: 24512.
Sample: EXQ11RE as 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
50 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	15610	DECANE, 2,6,7-TRIMETHYL-
2	28321	HEXANEDIOIC ACID, MONO(2-ETHYLHEXYL)ESTER
3	15579	UNDECANE, 4,5-DIMETHYL-
4	40537	HEXANEDIOIC ACID, BIS(2-ETHYLHEXYL) ESTER
5	40539	HEXANEDIOIC ACID, DIOCTYL ESTER

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H28	184	57	288	918	301
2	C14.H26.O4	258	129	603	916	639
3	C13.H28	184	57	304	915	312
4	C22.H42.O4	370	129	584	911	616
5	C22.H42.O4	370	129	616	909	651

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	62108-25-2
2	___	___	___	___	4337-65-9
3	___	___	___	___	17312-79-7
4	___	___	___	___	103-23-1
5	___	___	___	___	123-79-5

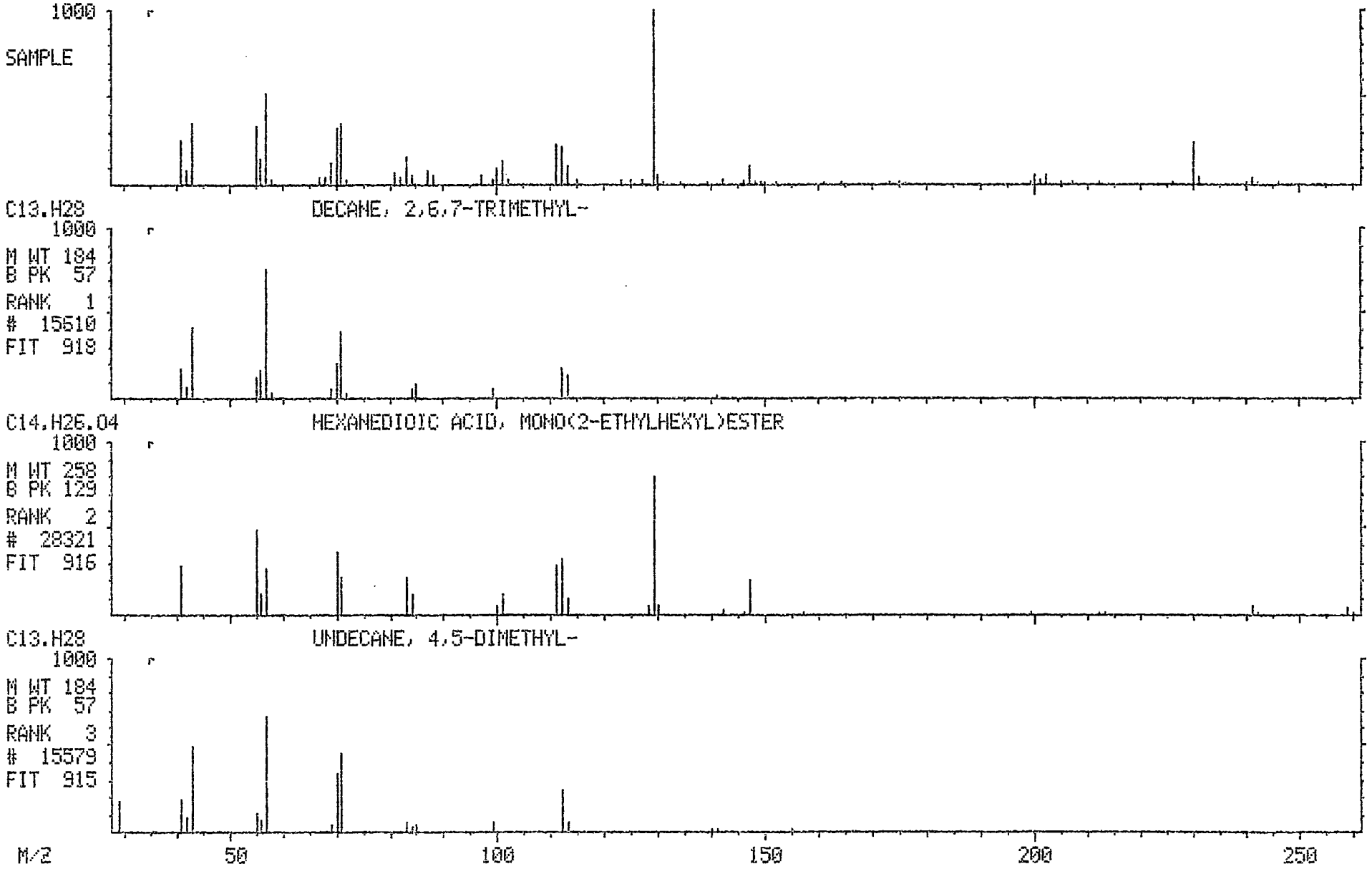
Mass	Inten	1	2	3	4	5
27					471	
29				176	419	198
39					223	
41	260	169	273	187	447	273
42	83	61		80		
43	342	415		499	277	290
55	334	116	487	111	388	405
56	143	160	123	70	183	150
57	516	761	267	672	480	541
58	26	30				
67	41					
68	38					
69	125	54		46	119	83
70	316	194	361	328	315	328
71	349	382	216	452	164	270
72	25	25				
81	63					
82	41					
83	165		212	48	159	160
84	50	49	119	32		107
85		75		43		
87	79					
88	47					
97	60					
99	31	54		56		
100	91		59			
101	133		118			87
102	32					
111	226		276		135	94
112	218	167	324	240	417	330

119	20				
123	27				
125	23				
127	27				
128			52		47
129	999		804	729	948
130	60		56	66	69
131	19				
134	1				
139	14				
140			1		
141		9	8		
142	21		24		
146	24		19	50	24
147	107		203	194	130
148	4				
149	15				24
150	17				
152	2				
155			0		
157			7		
160					8
161	12				
164	10				
173	4				
175	9				
176	14				
185					4
199	17		12	10	8
200	53				1
201	31				
202	47				
205	16				
207	8				
212	5		9	10	12
213			3		1
214					3
223					0
225					1
226	9				
230	240				
231	45				
240	8				
241	40		46	40	46
242	15		7		7
243					0
246	13				
258					2
259			46	39	23
260			8		3
269					0
272					1
279					2
284					1
307					0
313					3
327					0
341					1
370				4	0

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 27:50
SAMPLE: EXQ11BR CS 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1670
CALI: EXQ11BR # 3

BASE M/Z: 129
RIC: 24512.



Library Search Data: EXQ11BR #1711 Base m/z: 228
12/02/93 19:53:00 + 28:31 Cali: EXQ11BR # 3 RIC: 19104.
Sample: EXQ11~~BE~~ as 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
120 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	23859	3,4-DIHYDROCYCLOPENTA(CD)PYRENE (ACEPYRENE)
2	23858	BENZO[C]PHENANTHRENE
3	23572	METHANONE, (2-NITROPHENYL)PHENYL-
4	23862	TRIPHENYLENE
5	18609	1,2,4,5-TETRAZINE, 1,4-DIBUTYLHEXAHYDRO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H12	228	228	763	963	778
2	C18.H12	228	228	785	911	818
3	C13.H9.O3.N	227	227	168	876	192
4	C18.H12	228	228	693	809	753
5	C10.H24.N4	200	113	111	787	132

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	25732-74-5
2	___	___	___	___	195-19-7
3	___	___	___	___	2243-79-0
4	___	___	___	___	217-59-4
5	___	___	___	___	35035-70-2

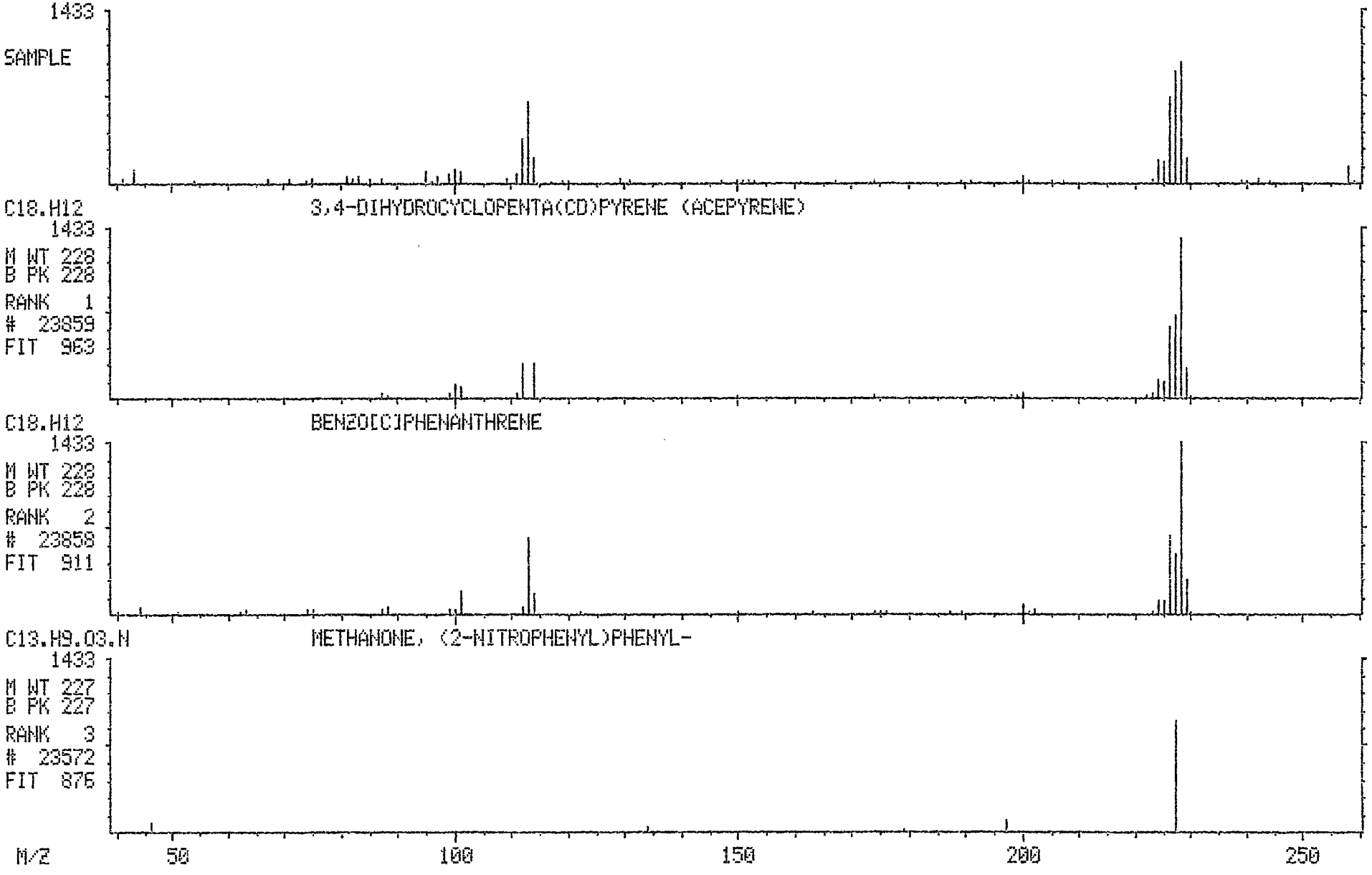
Mass	Inten	1	2	3	4	5
40			22			
41	38					80
42						80
43	112				113	56
44			59			
45						36
46				71		
51			23			
54	0					
55					124	
57					159	244
62			18			
63			31			
67	32					
71	43					43
72						5
74	26		35			
75	46		46			
81	60				39	
82	31					
83	64					
84						26
85	32					
87	46	38	39		58	
88		25	52		119	
95	100					
96	17					
97	50					
99	69	39	44		58	14
100	111	113	33		182	56

107	34					
111	80	35				
112	362	293	56		171	
113	674		637		476	704
114	210	294	174		392	49
117	28					
119	20					
120	23					
122			14			
129	34					
131	9					
134				36		
147	14					
149					39	
150	20	16	20		25	
151	17					
152	20					
153	25					
161	14					
163			10			
167	8					
174	20	16	14		15	
175			10		16	
176			10			
179				18		
187			17			
189	7		17			
191	15					
197				91		
198		22				10
199	12	15				
200	55	34	69		96	65
201	23		23		50	10
202			31		109	
205	6					
207	3					
222		24				
223	37	33	21			
224	186	145	123		80	
225	176	134	109		67	
226	709	599	644		332	
227	920	691	492	919	168	
228	999	1338	1432		1373	
229	207	239	280		268	
230		20	26		21	
239	8					
240	6					
242	31					
244	23					
258	127					
259	24					

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 28:31
SAMPLE: EXQ11~~RE~~ cs 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EXQ11BR #1711
CALI: EXQ11BR # 3

BASE M/Z: 228
RIC: 19104.



Library Search Data: EXQ11BR #1932 Base m/z: 252
12/02/93 19:53:00 + 32:12 Cali: EXQ11BR # 3 RIC: 9968.
Sample: EXQ11~~BE~~ CS 12-6-93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
55 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	27498	BENZO[J]FLUORANTHENE
2	27495	BENZ[E]ACEPHENANTHRYLENE
3	27497	BENZO[K]FLUORANTHENE
4	27496	BENZO[E]PYRENE
5	27494	BENZO[A]PYRENE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C20.H12	252	252	854	949	879
2	C20.H12	252	252	853	945	878
3	C20.H12	252	252	846	941	873
4	C20.H12	252	252	840	934	882
5	C20.H12	252	252	836	931	863

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	205-82-3
2	___	___	___	___	205-99-2
3	___	___	___	___	207-08-9
4	___	___	___	___	192-97-2
5	___	___	___	___	50-32-8

Mass	Inten	1	2	3	4	5
39	9					9
41					9	
42	19					
44	12					
54	6					
55	97					
56	16					
63			6			
69	86					
70	30					
74		11	11	12		17
75		6	5			
84		10	8	13		15
87	14	14	16	13	16	20
91					19	
92				10		
95	74					
97	59					
98			7			12
99	36	27	29	29	29	34
100	14	40	45	44	26	
101		13		15		10
107	20					
111	88	34	30	31	34	33
112	113	125	115	117	95	117
113	141	134	136	122	160	156
123	61					
124	219	122	119	111	139	111
125	289	294	249	238	314	254
126	252	344	390	414	288	381

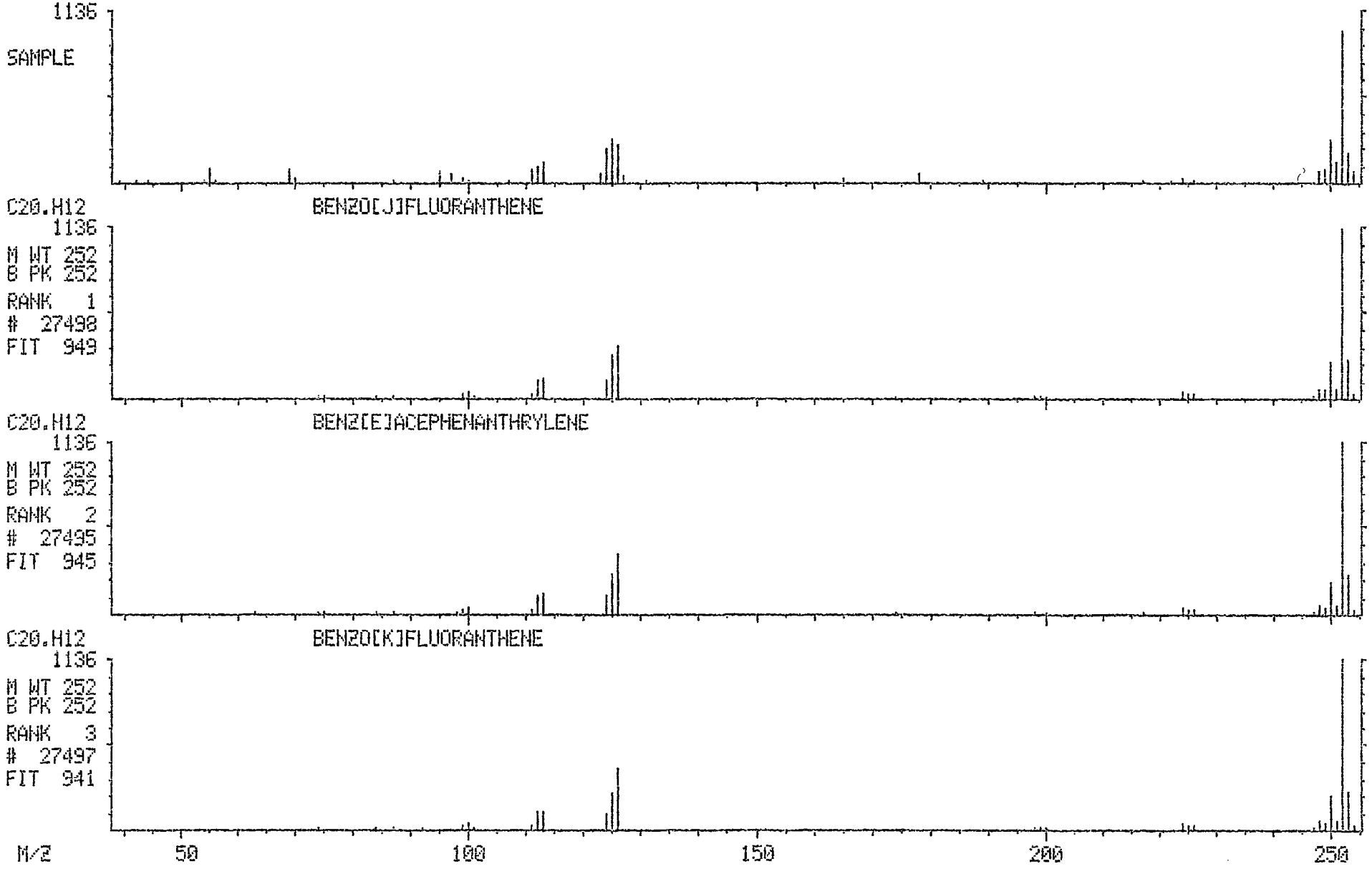
131	15					
133					125	
150						4
165	26					
174		5	5		4	4
178	63					
187					3	
189	6					
198		7	3	8	8	7
199		4		5	5	
200		9	10	11	10	10
202						7
217	9		14			
222	17					
224	35	44	42	43	43	53
225		25	30	27	21	37
226	20	29	30	31	31	35
247		14	14	13		
248	69	65	68	65	57	44
249	87	56	49	51	41	26
250	295	237	208	219	267	191
251	134	66	67	62	79	57
252	999	1119	1136	1132	1121	1190
253	203	255	259	258	235	254
254	74	27	30	30	23	26

LIBRARY SEARCH (LIBRARYNB)
12/02/93 19:53:00 + 32:12
SAMPLE: EX011BR CS 12-6-93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: EX011BR #1932
CALI: EX011BR # 3

BASE M/Z: 252
RIC: 9968.

1286



Quantitation Report File: TEMP1

Data: EXQ11BR.TI
12/02/93 19:53:00
Sample: EXQ11 CS 12-6-93
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=HEIGHT * REF AMNT/(REF HEIGHT * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	UNKNOWN
2	UNKNOWN
3	UNKNOWN
4	UNKNOWN
5	UNKNOWN
6	UNKNOWN
7	UNKNOWN
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46	UNKNOWN
47	UNKNOWN

No	Name
48	UNKNOWN
49	UNKNOWN
50	UNKNOWN

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	204	3:24	57	0.142	A BV	11136. *	4.718	0.43
2	RIC	215	3:35	57	0.150	A VV	8147. *	3.876	0.36
3	RIC	224	3:44	57	0.156	A BV	71001. *	30.083	2.77
4	RIC	231	3:51	57	0.161	A VB	5925. *	2.511	0.23
5	RIC	270	4:30	57	0.188	A BB	1084. *	0.459	0.04
6	RIC	280	4:40	57	0.195	A BB	53088. *	22.494	2.07
7	RIC	296	4:56	57	0.207	A BV	5961. *	2.526	0.23
8	RIC	304	5:04	57	0.212	A VB	9276. *	3.930	0.36
9	RIC	325	5:25	57	0.227	A BB	1524. *	0.646	0.06
10	RIC	335	5:35	57	0.234	A BB	8071. *	3.420	0.31
11	RIC	349	5:49	57	0.244	A BB	4026. *	1.706	0.16
12	RIC	360	6:00	57	0.251	A BB	2991. *	1.267	0.12
13	RIC	396	6:30	57	0.272	A BV	69633. *	29.504	2.71
14	RIC	399	6:39	57	0.278	A VV	56984. *	24.102	2.22
15	RIC	408	6:48	57	0.285	A VB	11363. *	4.814	0.44
16	RIC	417	6:57	57	0.291	A BB	71923. *	30.474	2.80
17	RIC	432	7:12	57	0.301	A BB	39863. *	16.890	1.55
18	RIC	446	7:28	57	0.313	A BB	65357. *	27.904	2.57
19	RIC	480	8:00	57	0.335	A BB	2921. *	1.238	0.11
20	RIC	520	8:40	57	0.363	A BB	48061. *	20.364	1.87
21	RIC	637	10:39	57	0.446	A BB	88402. *	37.458	3.45
22	RIC	768	12:48	57	0.536	A VB	1832. *	0.776	0.07
23	RIC	787	13:07	57	0.549	A BB	1279. *	0.542	0.05
24	RIC	825	13:45	57	0.576	A BB	45324. *	19.204	1.77
25	RIC	846	14:08	57	0.592	A BB	73657. *	31.200	2.87
26	RIC	938	15:38	57	0.655	A BB	2031. *	0.860	0.08
27	RIC	954	15:54	57	0.666	A BV	102187. *	43.297	3.98
28	RIC	959	15:59	57	0.669	A VB	13156. *	5.574	0.51
29	RIC	992	16:32	57	0.692	A VB	23113. *	9.793	0.90
30	RIC	1049	17:29	57	0.732	A BB	18731. *	7.936	0.73
31	RIC	1066	17:46	57	0.744	A BV	1892. *	0.802	0.07
32	RIC	1073	17:53	57	0.749	A VB	3675. *	1.557	0.14
33	RIC	1073	17:53	57	0.749	A VB	3675. *	1.557	0.14
34	RIC	1085	18:05	57	0.757	A BB	2195. *	0.930	0.09
35	RIC	1098	18:18	57	0.766	A VB	42854. *	18.157	1.67
36	RIC	1143	19:03	57	0.798	A BB	12858. *	5.448	0.50
37	RIC	1163	19:23	57	0.812	A VV	3184. *	1.349	0.12
38	RIC	1182	19:42	57	0.825	A BB	4505. *	1.909	0.18
39	RIC	1193	19:53	57	0.833	A BB	9610. *	4.072	0.37
40	RIC	1219	20:18	57	0.850	A BV	204178. *	86.511	7.96
41	RIC	1224	20:24	57	0.854	A VB	43072. *	18.250	1.68
42	RIC	1234	20:34	57	0.861	A BB	5519. *	2.339	0.22
43	RIC	1244	20:44	57	0.868	A BB	2453. *	1.039	0.10
44	RIC	1252	20:52	57	0.874	A BB	3783. *	1.603	0.15
45	RIC	1265	21:05	57	0.883	A BV	23690. *	10.038	0.92
46	RIC	1273	21:13	57	0.888	A VV	10922. *	4.628	0.43
47	RIC	1281	21:21	57	0.894	A VB	2928. *	1.241	0.11
48	RIC	1312	21:52	57	0.916	A BB	15860. *	6.720	0.62
49	RIC	1323	22:03	57	0.923	A BV	34783. *	14.738	1.36
50	RIC	1330	22:10	57	0.928	A VB	8784. *	3.722	0.34

IS_{188} @ 1213 → HT = 100992

Quantitation Report File: TEMP1

Data: EXQ11BR.TI
12/02/93 19:53:00
Sample: EXQ11 CS 12-6-93
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=HEIGHT * REF AMNT/(REF HEIGHT * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	UNKNOWN
52	UNKNOWN
53	UNKNOWN
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93	UNKNOWN
94	UNKNOWN
95	UNKNOWN
96	UNKNOWN
97	UNKNOWN

No	Name
98	UNKNOWN

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	RIC	1357	22:37	57	0.947	A BV	16544. *	7.010	0.64
52	RIC	~~1367~~	22:47	57	0.954	A VV	~~29840.~~ *	12.644	1.16
53	RIC	1374	22:54	57	0.959	A VB	32688. *	13.850	1.27
54	RIC	1391	23:11	57	0.971	A BB	7605. *	3.222	0.30
55	RIC	1399	23:19	57	0.976	A BB	4234. *	1.794	0.17
56	RIC	1420	23:40	57	0.991	A VV	5085. *	2.155	0.20
57	RIC	~~1433~~	23:53	57	1.000	A VB	~~236013.~~ *	100.000	9.20
58	RIC	1444	24:04	57	1.008	A BB	3872. *	1.641	0.15
59	RIC	1454	24:14	57	1.015	A BB	5412. *	2.293	0.21
60	RIC	~~1469~~	24:29	57	1.025	A VV	~~201691.~~ *	85.458	7.86
61	RIC	1474	24:34	57	1.029	A VB	46996. *	19.912	1.83
62	RIC	1486	24:46	57	1.037	A BB	5074. *	2.150	0.20
63	RIC	1497	24:57	57	1.045	A BB	25492. *	10.801	0.99
64	RIC	~~1521~~	25:21	57	1.061	A BB	~~88752.~~ *	35.571	3.27
65	RIC	1537	25:37	57	1.073	A BB	30203. *	12.797	1.18
66	RIC	1549	25:49	57	1.081	A BB	21727. *	9.206	0.85
67	RIC	1558	25:58	57	1.087	A VV	9390. *	3.979	0.37
68	RIC	1567	26:07	57	1.094	A VV	7904. *	3.349	0.31
69	RIC	1572	26:12	57	1.097	A VB	6400. *	2.712	0.25
70	RIC	1599	26:39	57	1.116	A BB	8354. *	3.540	0.33
71	RIC	1606	26:46	57	1.121	A BB	3368. *	1.427	0.13
72	RIC	1618	26:58	57	1.129	A BB	4318. *	1.829	0.17
73	RIC	1629	27:09	57	1.137	A BB	7059. *	2.991	0.28
74	RIC	1648	27:26	57	1.149	A BV	12032. *	5.098	0.47
75	RIC	1654	27:34	57	1.154	A VV	21754. *	9.217	0.85
76	RIC	1661	27:41	57	1.159	A VV	8727. *	3.698	0.34
77	RIC	1670	27:50	57	1.165	A BB	24039. *	10.185	0.94
78	RIC	~~1694~~	28:14	57	1.182	A BV	~~88521.~~ *	37.507	3.45
79	RIC	~~1700~~	28:20	57	1.186	A VB	~~87177.~~ *	36.946	3.40
80	RIC	1711	28:31	57	1.194	A BB	19000. *	8.050	0.74
81	RIC	~~1751~~	28:51	57	1.208	A BV	~~6011.~~ *	2.547	0.23
82	RIC	1735	28:55	57	1.211	A VB	~~8293.~~ *	3.514	0.32
83	RIC	1731	28:51	57	1.208	A BV	6011. *	2.547	0.23
84	RIC	1735	28:55	57	1.211	A VB	8293. *	3.514	0.32
85	RIC	1745	29:05	57	1.218	A BB	4384. *	1.858	0.17
86	RIC	~~1764~~	29:24	57	1.231	A BB	~~9952.~~ *	4.217	0.39
87	RIC	1773	29:33	57	1.237	A BB	4301. *	1.822	0.17
88	RIC	1786	29:46	57	1.246	A BV	8513. *	3.607	0.33
89	RIC	1795	29:55	57	1.253	A VV	6057. *	2.566	0.24
90	RIC	1800	30:00	57	1.256	A VB	3502. *	1.484	0.14
91	RIC	1865	31:05	57	1.301	A BB	4224. *	1.790	0.16
92	RIC	~~1889~~	31:29	57	1.318	A BB	~~31609.~~ *	13.393	1.23
93	RIC	1905	31:45	57	1.329	A BB	1821. *	0.771	0.07
94	RIC	1932	32:12	57	1.348	A BV	11015. *	4.667	0.43
95	RIC	~~1941~~	32:21	57	1.355	A VV	~~14309.~~ *	6.063	0.56
96	RIC	~~1951~~	32:31	57	1.361	A BB	9504. *	4.027	0.37
97	RIC	2011	33:31	57	1.403	A BB	2899. *	1.228	0.11
98	RIC	2209	36:49	57	1.542	A VB	1054. *	0.446	0.04

IS 240 @ 1696 — HT = No sig peak.

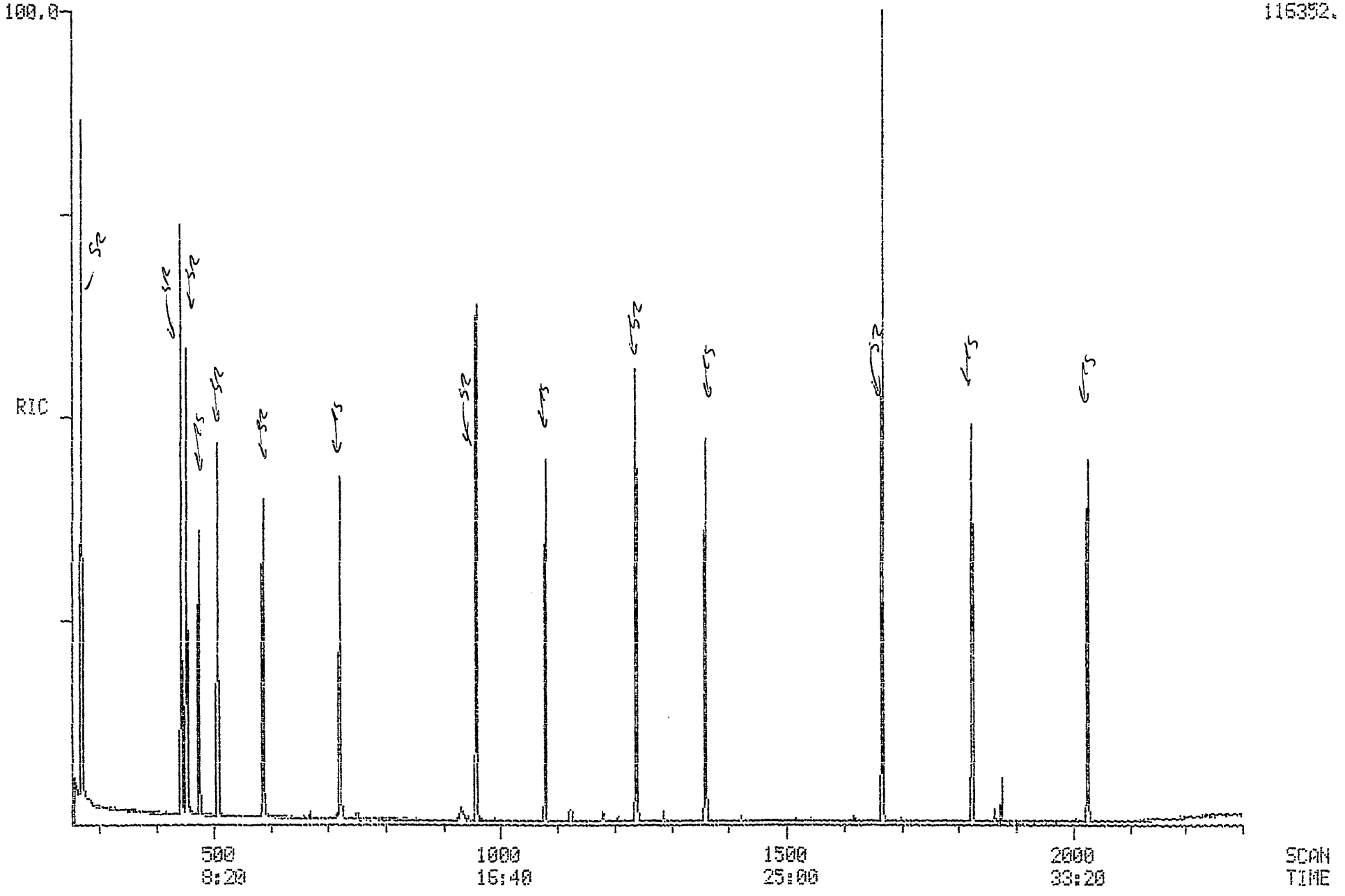
23

RIC
11/24/93 18:13:00
SAMPLE: EX012
CONDS.: INST. 025 (40F2T0180@9T0310@10H9)
RANGE: G 1.2300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EX012B #1
CALI: EX012B #3

SCANS 250 TO 2300

1290



Quantitation Report File: EXQ12B

Data: EXQ12B.TI
11/24/93 18:13:00
Sample: EXQ12
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.000
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT.STD.)***
2	CI40 D8-NAPHTHALENE***(INT.STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT.STD.)****
5	CI70 D12-CHRYSENE***(INT.STD.)***
6	CI75 D12-PERYLENE***(INT.STD.)***
7	CS50 2-FLUOROPHENOL***(SURR.STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR.STD)***
9	CS45 D6-PHENOL***(SURR.STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR.STD)***
11	CS20 D5-NITROBENZENE***(SURR.STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR.STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR.STD.)***
14	CS30 D14-TERPHENYL***(SURR.STD.)***
15	C745 BIS(2-ETHYLHEXYL) PHTHALATE

1/1

NO TICS

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	475	7:55	1	1.000	A BB	17561.	40.000	NG/UL	3.89
2	136	723	12:03	2	1.000	A BB	60017.	40.000	NG/UL	3.89
3	164	1080	18:00	3	1.000	A BB	36122.	40.000	NG/UL	3.89
4	188	1360	22:40	4	1.000	A BB	55505.	40.000	NG/UL	3.89
5	240	1824	30:24	5	1.000	A BB	50065.	40.000	NG/UL	3.89
6	264	2027	33:47	6	1.000	A BB	47926.	40.000	NG/UL	3.89
7	112	268	4:28	1	0.564	A BB	80706.	146.927	NG/UL	14.27
8	132	444	7:24	1	0.935	A BB	61009.	99.398	NG/UL	9.66
9	99	454	7:34	1	0.956	A BB	83533.	108.646	NG/UL	10.55
10	152	509	8:29	1	1.072	A BB	24544.	60.779	NG/UL	5.90
11	82	589	9:49	2	0.815	A BB	49011.	75.211	NG/UL	7.31
12	172	960	16:00	3	0.889	A BB	77014.	70.155	NG/UL	6.82
13	330	1239	20:39	3	1.147	A BB	21233.	128.152	NG/UL	12.45
14	244	1670	27:50	5	0.916	A BB	109920.	95.623	NG/UL	9.29
15	149	1875	31:15	5	1.028	A BB	4425.	4.456	NG/UL	0.43

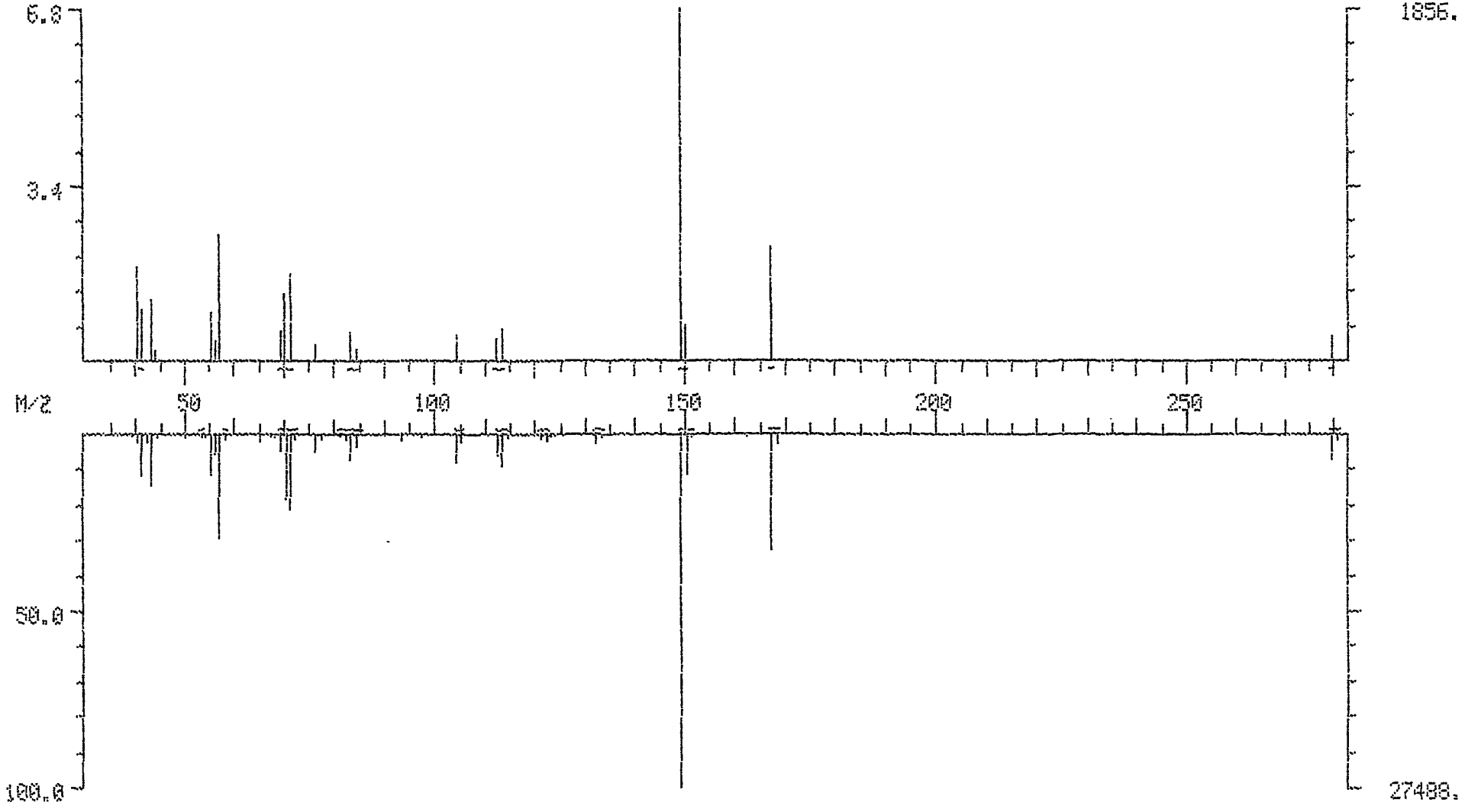
DUAL MASS SPECTRUM
11/24/93 18:13:00 + 31:15
SECOND SPECTRUM
SAMPLE: EXQ12
CONDS.: INST. 025 (40F2T0180@9T0310@10H9)

DATA: EXQ12B #1875
CALI: EXQ12B #3
DATA: 50BY1124Y #1875

BASE M/Z: 149/ 149
RIC: 6703./ 93311.

1292

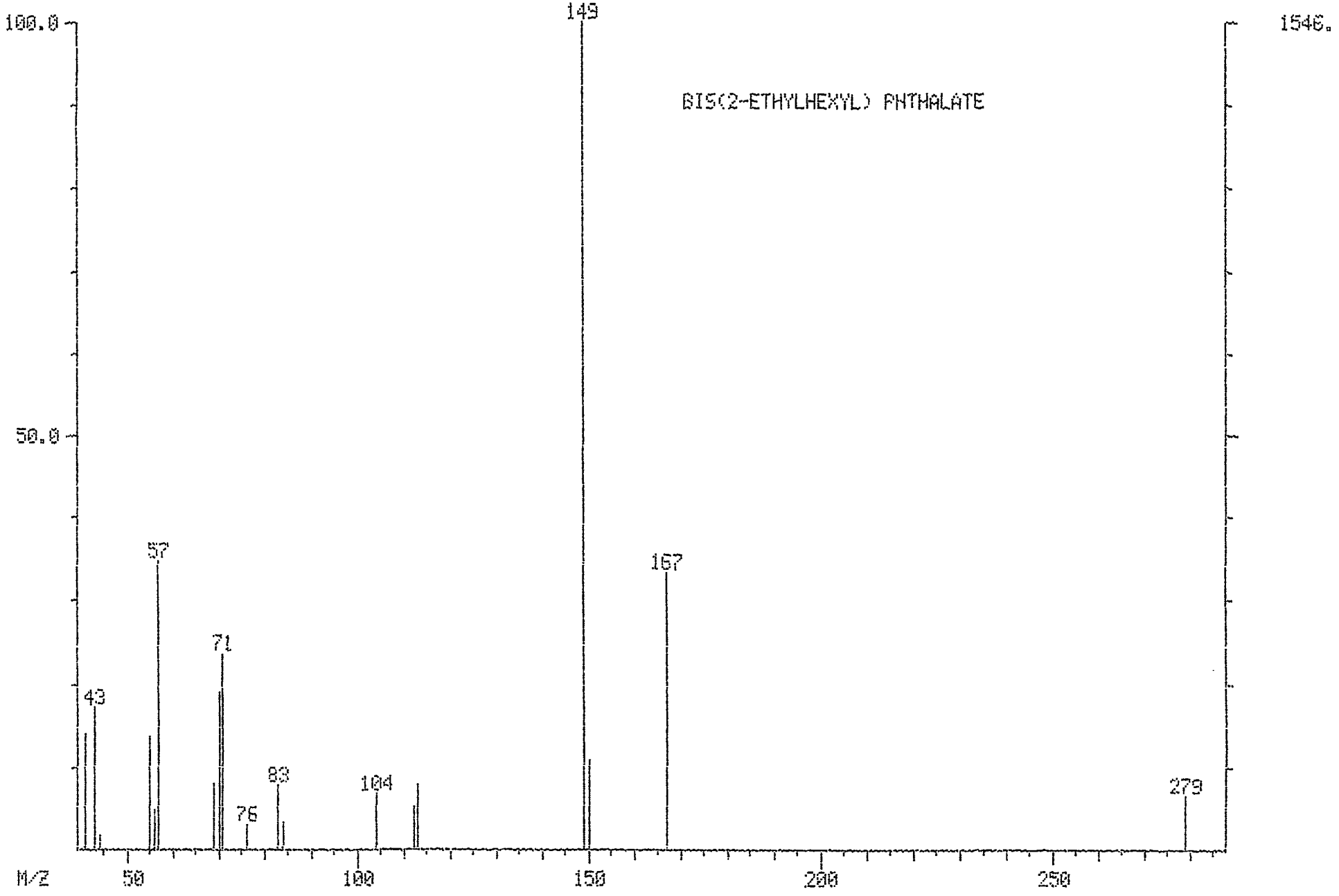
BIS(2-ETHYLHEXYL) PHTHALATE



MASS SPECTRUM
11/24/93 18:13:00 + 31:15
SAMPLE: EX012
CONDS.: INST. 025 (40F2TO180@9TO310@10H9)
ENHANCED (S 15B 2N 0T)

DATA: EX012B #1875
CALI: EX012B #3

BASE M/Z: 149
RIC: 4968.



IV SEMIVOLATILE STANDARDS DATA

CASE # 21170
SDG # EXQ02

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 025 Calibration Date(s): 11/20/93 11/20/93

Calibration Times: 1247 1551

LAB FILE ID: RRF20 = 20BY1120 RRF50 = 50BY1120
RRF80 = 80BY1120 RRF120= 120BY1120 RRF160= 160BY1120

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.800	1.871	1.873	1.774	1.663	1.796	4.8*
bis(2-Chloroethyl)Ether *	1.454	1.433	1.485	1.335	1.331	1.408	5.0*
2-Chlorophenol *	1.389	1.386	1.448	1.325	1.319	1.373	3.9*
1,3-Dichlorobenzene *	1.506	1.511	1.554	1.448	1.454	1.495	2.9*
1,4-Dichlorobenzene *	1.555	1.535	1.603	1.478	1.495	1.533	3.2*
1,2-Dichlorobenzene *	1.376	1.397	1.474	1.372	1.373	1.398	3.1*
2-Methylphenol *	1.121	1.114	1.115	1.091	1.316	1.151	8.1*
2,2'-oxybis(1-Chloropropane	1.453	1.423	1.448	1.342	1.388	1.411	3.3
4-Methylphenol *	1.118	1.152	1.203	1.168	1.493	1.227	12.4*
N-Nitroso-Di-n-Propylamine *	1.063	1.054	1.118	1.235	1.260	1.146	8.4*
Hexachloroethane *	0.639	0.635	0.659	0.618	0.609	0.632	3.1*
Nitrobenzene *	0.657	0.624	0.654	0.660	0.721	0.663	5.3*
Isophorone *	0.863	0.832	0.888	0.894	0.892	0.874	3.0*
2-Nitrophenol *	0.210	0.205	0.214	0.236	0.230	0.219	6.1*
2,4-Dimethylphenol *	0.362	0.360	0.370	0.395	0.368	0.371	3.8*
bis(2-Chloroethoxy)Methane *	0.481	0.460	0.494	0.513	0.491	0.488	4.0*
2,4-Dichlorophenol *	0.310	0.301	0.310	0.329	0.302	0.310	3.6*
1,2,4-Trichlorobenzene *	0.337	0.324	0.344	0.353	0.335	0.339	3.2*
Naphthalene *	1.092	1.062	1.134	1.157	1.094	1.108	3.4*
4-Chloroaniline	0.453	0.447	0.488	0.499	0.479	0.473	4.7
Hexachlorobutadiene	0.157	0.148	0.161	0.168	0.165	0.160	4.9
4-Chloro-3-Methylphenol *	0.308	0.307	0.327	0.331	0.307	0.316	3.8*
2-Methylnaphthalene *	0.665	0.673	0.707	0.721	0.690	0.691	3.4*
Hexachlorocyclopentadiene	0.304	0.289	0.312	0.338	0.334	0.315	6.5
2,4,6-Trichlorophenol *	0.382	0.370	0.404	0.461	0.450	0.413	9.8*
2,4,5-Trichlorophenol *		0.353	0.367	0.368	0.428	0.379	8.8*
2-Chloronaphthalene *	1.173	1.139	1.204	1.257	1.194	1.193	3.6*
2-Nitroaniline		0.474	0.518	0.534	0.540	0.516	5.8
Dimethylphthalate	1.271	1.270	1.375	1.347	1.300	1.313	3.6
Acenaphthylene *	1.869	1.832	1.984	2.063	2.007	1.951	5.0*
2,6-Dinitrotoluene *	0.300	0.310	0.344	0.347	0.337	0.328	6.5*
3-Nitroaniline		0.357	0.419	0.418	0.411	0.401	7.4
Acenaphthene *	1.007	0.982	1.074	1.109	1.045	1.043	4.9*
2,4-Dinitrophenol		0.176	0.207	0.215	0.222	0.205	9.9
4-Nitrophenol		0.226	0.253	0.274	0.276	0.257	9.1
Dibenzofuran *	1.551	1.540	1.686	1.687	1.682	1.629	4.7*
2,4-Dinitrotoluene *	0.366	0.389	0.432	0.433	0.432	0.410	7.6*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 025 Calibration Date(s): 11/20/93 11/20/93

Calibration Times: 1247 1551

LAB FILE ID: RRF20 = 20BY1120 RRF50 = 50BY1120
RRF80 = 80BY1120 RRF120= 120BY1120 RRF160= 160BY1120

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Diethylphthalate	1.285	1.318	1.436	0.399	0.405	0.969	53.7
4-Chlorophenyl-phenylether *	0.571	0.558	0.609	0.623	0.621	0.596	5.0*
Fluorene *	1.238	1.263	1.380	1.375	1.375	1.326	5.3*
4-Nitroaniline		0.368	0.417	0.327	0.340	0.363	11.0
4,6-Dinitro-2-Methylphenol		0.148	0.161	0.172	0.167	0.162	6.4
N-Nitrosodiphenylamine (1)	0.550	0.535	0.578	0.580	0.554	0.559	3.4
4-Bromophenyl-phenylether *	0.189	0.191	0.201	0.206	0.204	0.198	3.9*
Hexachlorobenzene *	0.196	0.199	0.219	0.218	0.218	0.210	5.5*
Pentachlorophenol *		0.145	0.156	0.162	0.156	0.155	4.6*
Phenanthrene *	1.213	1.185	1.300	1.280	1.228	1.241	3.8*
Anthracene *	1.225	1.218	1.301	1.313	1.177	1.247	4.7*
Carbazole	1.205	1.139	1.281	1.263	1.198	1.217	4.6
Di-n-Butylphthalate	1.525	1.515	1.638	1.670	1.603	1.590	4.3
Fluoranthene *	1.247	1.230	1.308	1.377	1.276	1.288	4.5*
Pyrene *	1.427	1.387	1.529	1.839	1.752	1.587	12.6*
Butylbenzylphthalate	0.773	0.775	0.853	1.016	0.990	0.881	13.2
3,3'-Dichlorobenzidine	0.378	0.403	0.451	0.576	0.498	0.461	17.1
Benzo(A) anthracene *	1.347	1.274	1.431	1.742	1.627	1.484	13.2*
Chrysene *	1.067	1.079	1.144	1.309	1.215	1.163	8.7*
bis(2-Ethylhexyl)Phthalate	1.034	1.081	1.150	1.406	1.446	1.223	15.5
Di-n-Octylphthalate	1.952	2.879	2.656	2.738	3.063	2.658	15.9
Benzo(b)Fluoranthene *	1.210	1.503	1.548	1.665	1.540	1.493	11.4*
Benzo(k)Fluoranthene *	1.290	1.248	1.252	1.183	1.106	1.216	6.0*
Benzo(a)Pyrene *	1.082	1.117	1.225	1.326	1.213	1.193	8.1*
Indeno(1,2,3-cd)Pyrene *	0.786	0.748	0.781	0.647	0.766	0.746	7.7*
Dibenz(a,h)Anthracene *	0.732	0.710	0.771	0.696	0.773	0.736	4.7*
Benzo(g,h,i)Perylene *	0.721	0.728	0.705	0.468	0.640	0.652	16.7*
Nitrobenzene-d5 *	0.499	0.478	0.514	0.509	0.520	0.504	3.3*
2-Fluorobiphenyl *	1.286	1.262	1.349	1.411	1.319	1.325	4.4*
Terphenyl-d14 *	0.918	0.888	0.965	1.165	1.138	1.015	12.6*
Phenol-d5 *	1.701	1.704	1.843	1.701	1.650	1.720	4.2*
2-Fluorophenol *	1.847	1.866	1.914	1.276	1.652	1.711	15.4*
2,4,6-Tribromophenol	0.123	0.132	0.141	0.144	0.143	0.137	6.5
2-Chlorophenol-d4 *	1.350	1.380	1.426	1.316	1.299	1.354	3.8*
1,2-Dichlorobenzene-d4 *	0.930	0.913	0.950	0.930	0.886	0.922	2.6*

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 001 Calibration Date(s): 11/30/93 11/30/93

Calibration Times: 1058 1402

LAB FILE ID: RRF20 = 20BA1130 RRF50 = 50BA1130
RRF80 = 80BA1130 RRF120= 120BA1130 RRF160= 160BA1130

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.659	1.750	1.733	1.742	1.646	1.706	2.9*
bis(2-Chloroethyl)Ether *	1.600	1.600	1.634	1.597	1.631	1.612	1.1*
2-Chlorophenol *	1.249	1.259	1.323	1.298	1.298	1.285	2.4*
1,3-Dichlorobenzene *	1.393	1.420	1.505	1.443	1.458	1.444	2.9*
1,4-Dichlorobenzene *	1.475	1.463	1.542	1.502	1.485	1.493	2.1*
1,2-Dichlorobenzene *	1.377	1.404	1.448	1.410	1.416	1.411	1.8*
2-Methylphenol *	1.257	1.266	1.307	1.237	1.285	1.270	2.1*
2,2'-oxybis(1-Chloropropane	2.741	2.792	2.844	2.762	2.802	2.788	1.4
4-Methylphenol *	1.266	1.305	1.359	1.293	1.339	1.312	2.8*
N-Nitroso-Di-n-Propylamine *	1.146	1.209	1.408	1.351	1.368	1.296	8.7*
Hexachloroethane *	0.504	0.529	0.564	0.537	0.552	0.537	4.3*
Nitrobenzene *	0.507	0.518	0.506	0.527	0.518	0.515	1.7*
Isophorone *	0.796	0.787	0.798	0.802	0.759	0.788	2.2*
2-Nitrophenol *	0.171	0.182	0.181	0.191	0.204	0.186	6.7*
2,4-Dimethylphenol *	0.290	0.299	0.294	0.306	0.310	0.300	2.8*
bis(2-Chloroethoxy)Methane *	0.530	0.534	0.531	0.539	0.549	0.537	1.4*
2,4-Dichlorophenol *	0.254	0.264	0.259	0.268	0.269	0.263	2.4*
1,2,4-Trichlorobenzene *	0.292	0.300	0.297	0.308	0.302	0.300	2.0*
Naphthalene *	0.993	0.997	0.997	1.014	0.987	0.998	1.0*
4-Chloroaniline	0.443	0.452	0.475	0.473	0.481	0.465	3.5
Hexachlorobutadiene	0.148	0.151	0.155	0.157	0.158	0.154	2.7
4-Chloro-3-Methylphenol *	0.279	0.277	0.273	0.286	0.288	0.281	2.2*
2-Methylnaphthalene *	0.719	0.726	0.744	0.764	0.795	0.750	4.1*
Hexachlorocyclopentadiene	0.307	0.312	0.342	0.344	0.345	0.330	5.7
2,4,6-Trichlorophenol *	0.305	0.317	0.352	0.358	0.435	0.353	14.4*
2,4,5-Trichlorophenol *		0.333	0.336	0.334	0.289	0.323	7.0*
2-Chloronaphthalene *	1.087	1.072	1.143	1.096	1.121	1.104	2.6*
2-Nitroaniline		0.354	0.371	0.373	0.392	0.372	4.2
Dimethylphthalate	1.317	1.276	1.316	1.259	1.242	1.282	2.6
Acenaphthylene *	1.769	1.699	1.771	1.745	1.825	1.762	2.6*
2,6-Dinitrotoluene *	0.279	0.286	0.315	0.303	0.318	0.300	5.8*
3-Nitroaniline		0.316	0.324	0.332	0.309	0.320	3.1
Acenaphthene *	1.047	0.992	1.031	1.012	1.060	1.028	2.6*
2,4-Dinitrophenol		0.152	0.167	0.165	0.184	0.167	7.9
4-Nitrophenol		0.087	0.101	0.084	0.095	0.092	8.4
Dibenzofuran *	1.538	1.496	1.560	1.533	1.538	1.533	1.5*
2,4-Dinitrotoluene *	0.358	0.360	0.370	0.367	0.369	0.365	1.5*

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 001 Calibration Date(s): 11/30/93 11/30/93

Calibration Times: 1058 1402

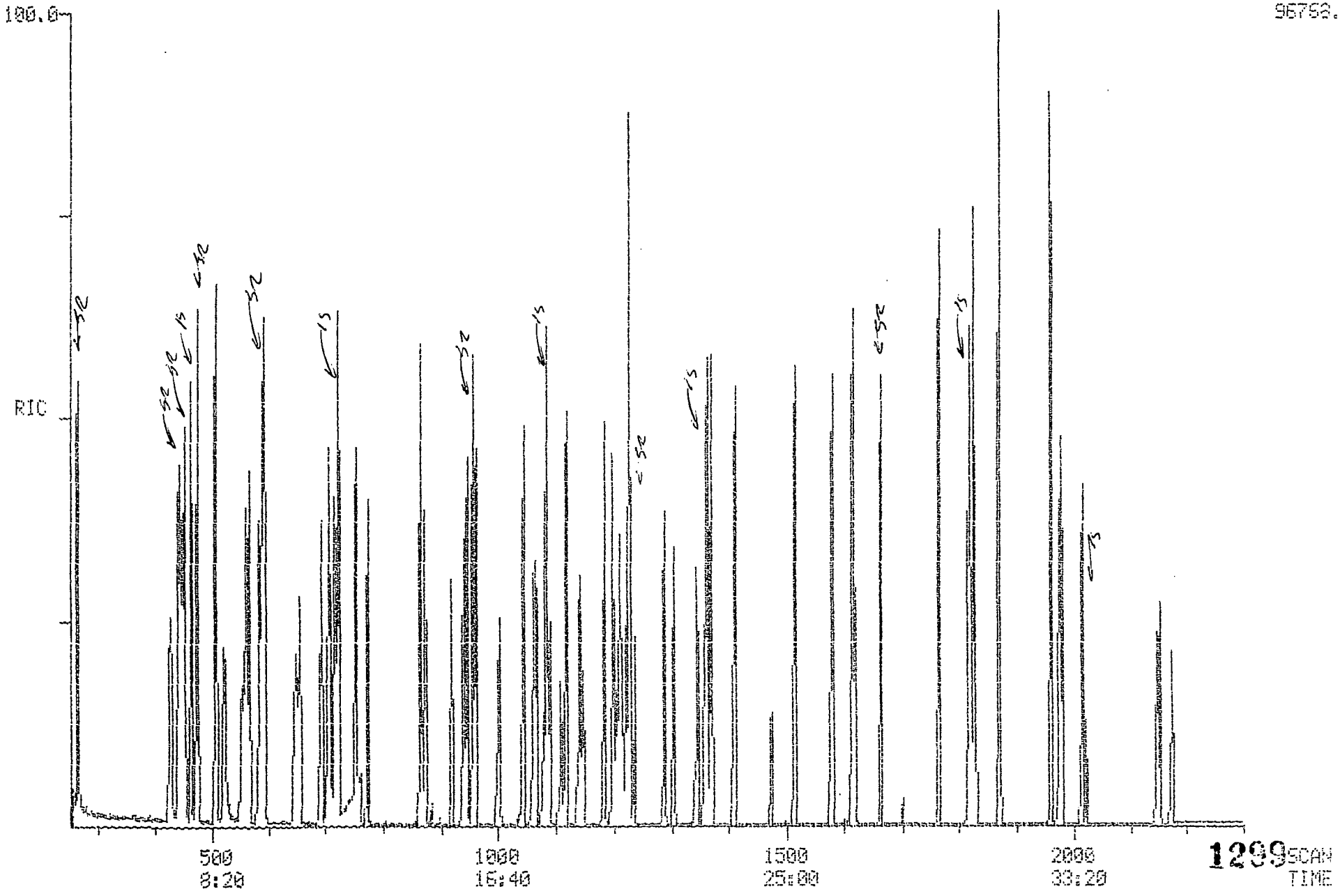
LAB FILE ID: RRF20 = 20BA1130 RRF50 = 50BA1130
RRF80 = 80BA1130 RRF120= 120BA1130 RRF160= 160BA1130

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Diethylphthalate	1.329	1.220	1.254	1.210	1.209	1.244	4.1
4-Chlorophenyl-phenylether *	0.656	0.646	0.660	0.654	0.674	0.658	1.6*
Fluorene *	1.201	1.163	1.208	1.186	1.200	1.192	1.5*
4-Nitroaniline		0.255	0.295	0.264	0.258	0.268	6.9
4,6-Dinitro-2-Methylphenol		0.130	0.135	0.142	0.126	0.133	5.2
N-Nitrosodiphenylamine (1)	0.566	0.517	0.579	0.594	0.552	0.562	5.2
4-Bromophenyl-phenylether *	0.248	0.243	0.251	0.268	0.252	0.252	3.7*
Hexachlorobenzene *	0.238	0.230	0.240	0.249	0.241	0.240	2.8*
Pentachlorophenol *		0.130	0.144	0.144	0.148	0.142	5.6*
Phenanthrene *	1.117	1.068	1.151	1.144	1.124	1.121	2.9*
Anthracene *	1.081	0.995	1.009	1.038	0.924	1.009	5.7*
Carbazole	1.084	1.003	1.013	0.951	0.900	0.990	7.0
Di-n-Butylphthalate	1.673	1.560	1.634	1.564	1.623	1.611	3.0
Fluoranthene *	1.165	1.132	1.162	1.005	1.102	1.113	5.9*
Pyrene *	1.129	1.134	1.151	1.374	1.236	1.205	8.6*
Butylbenzylphthalate	0.666	0.669	0.708	0.722	0.780	0.709	6.6
3,3'-Dichlorobenzidine	0.350	0.289	0.357	0.297	0.340	0.327	9.6
Benzo(A) anthracene *	1.119	1.151	1.119	1.133	1.249	1.154	4.7*
Chrysene *	0.833	0.795	0.813	0.850	0.833	0.825	2.6*
bis(2-Ethylhexyl)Phthalate	1.024	1.040	1.090	1.074	1.190	1.084	6.0
Di-n-Octylphthalate	2.110	2.143	1.974	2.061	1.911	2.040	4.7
Benzo(b)Fluoranthene *	1.446	1.528	1.622	1.523	1.412	1.506	5.4*
Benzo(k)Fluoranthene *	1.218	1.011	0.754	0.852	1.060	0.979	18.5*
Benzo(a)Pyrene *	1.287	1.287	1.144	1.145	1.089	1.190	7.7*
Indeno(1,2,3-cd)Pyrene *	1.093	0.774	0.648	0.763	0.592	0.774	25.1*
Dibenz(a,h)Anthracene *	0.875	0.856	0.549	0.567	0.558	0.681	24.8*
Benzo(g,h,i)Perylene *	0.962	0.603	0.583	0.487	0.820	0.691	28.1*
Nitrobenzene-d5 *	0.372	0.368	0.385	0.381	0.377	0.377	1.8*
2-Fluorobiphenyl *	1.186	1.118	1.226	1.153	1.217	1.180	3.8*
Terphenyl-d14 *	0.856	0.857	0.886	1.017	0.931	0.909	7.4*
Phenol-d5 *	1.942	1.794	1.909	1.889	1.901	1.887	2.9*
2-Fluorophenol *	1.574	1.450	1.603	1.527	1.565	1.544	3.8*
2,4,6-Tribromophenol	0.215	0.175	0.192	0.178	0.196	0.191	8.4
2-Chlorophenol-d4 *	1.405	1.290	1.385	1.341	1.341	1.352	3.3*
1,2-Dichlorobenzene-d4 *	0.814	0.824	0.881	0.842	0.850	0.842	3.1*

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

RIC
11/20/93 12:47:00
SAMPLE: SSTD160
CONDS.: INST. 025 (40F2TO180@9TO310@10H9)
RANGE: G 1,2300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 160BY1120 #1 SCANS 250 TO 2300
CALI: 160BY1120 #3



Quantitation Report File: 160BY1120

Data: 160BY1120.TI
11/20/93 12:47:00
Sample: SSTD160
Conds.: INST. 025 (40F2T018009T031001OH9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.001
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT.STD.)***
2	CI40 D8-NAPHTHALENE***(INT.STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT.STD.)****
5	CI70 D12-CHRYSENE***(INT.STD.)***
6	CI75 D12-PERYLENE***(INT.STD.)***
7	CS50 2-FLUOROPHENOL***(SURR.STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR.STD)***
9	CS45 D6-PHENOL***(SURR.STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR.STD)***
11	CS20 D5-NITROBENZENE***(SURR.STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR.STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR.STD.)***
14	CS30 D14-TERPHENYL***(SURR.STD.)***
15	C315 PHENOL
16	C325 BIS(2-CHLOROETHYL) ETHER
17	C330 2-CHLOROPHENOL
18	C335 1,3-DICHLOROBENZENE
19	C340 1,4-DICHLOROBENZENE
20	C345 BENZYL ALCOHOL
21	C350 1,2-DICHLOROBENZENE
22	C355 2-METHYLPHENOL
23	C360 2,2'-OXYBIS(1-CHLOROPROPANE)
24	C365 4-METHYLPHENOL
25	C370 N-NITROSO-DI-N-PROPYLAMINE
26	C375 HEXACHLOROETHANE
27	C410 NITROBENZENE
28	C415 ISOPHORONE
29	C420 2-NITROPHENOL
30	C425 2,4-DIMETHYLPHENOL
31	C435 BIS(2-CHLOROETHOXY) METHANE
32	C440 2,4-DICHLOROPHENOL
33	C445 1,2,4-TRICHLOROBENZENE
34	C450 NAPHTHALENE
35	C455 4-CHLOROANILINE
36	C460 HEXACHLOROBUTADIENE
37	C465 4-CHLORO-3-METHYLPHENOL
38	C470 2-METHYLNAPHTHALENE
39	C510 HEXACHLOROCYCLOPENTADIENE
40	C515 2,4,6-TRICHLOROPHENOL
41	C520 2,4,5-TRICHLOROPHENOL
42	C525 2-CHLORONAPHTHALENE
43	C530 2-NITROANILINE
44	C535 DIMETHYLPHTHALATE
45	C540 ACENAPHTHYLENE
46	C545 3-NITROANILINE
47	C550 ACENAPHTHENE

No	Name
48	C555 2,4-DINITROPHENOL
49	C560 4-NITROPHENOL
50	C565 DIBENZOFURAN

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	472	7:52	1	1.000	A BB	6254.	40.000	NG/UL	0.34
2	136	721	12:01	2	1.000	A BB	19023.	40.000	NG/UL	0.34
3	164	1078	17:58	3	1.000	A BB	10058.	40.000	NG/UL	0.34
4	188	1358	22:38	4	1.000	A BB	16378.	40.000	NG/UL	0.34
5	240	1822	30:22	5	1.000	A VB	12095.	40.000	NG/UL	0.34
6	264	2023	33:43	6	1.000	A BB	9600.	40.000	NG/UL	0.34
7	112	264	4:24	1	0.559	A BB	41325.	160.000	NG/UL	1.34
8	132	441	7:21	1	0.934	A BB	32489.	160.000	NG/UL	1.34
9	99	452	7:32	1	0.958	A BB	41264.	160.000	NG/UL	1.34
10	152	507	8:27	1	1.074	A BB	22162.	160.000	NG/UL	1.34
11	82	589	9:49	2	0.817	A BB	39544.	160.000	NG/UL	1.34
12	172	957	15:57	3	0.888	A BB	53075.	160.000	NG/UL	1.34
13	330	1237	20:37	3	1.147	A BB	5764.	160.000	NG/UL	1.34
14	244	1666	27:46	5	0.914	A BB	55068.	160.000	NG/UL	1.34
15	94	454	7:34	1	0.962	A BB	41593.	160.000	NG/UL	1.34
16	93	447	7:27	1	0.947	A BB	33285.	160.000	NG/UL	1.34
17	128	444	7:24	1	0.941	A BB	33008.	160.000	NG/UL	1.34
18	146	464	7:44	1	0.983	A BB	36372.	160.000	NG/UL	1.34
19	146	476	7:56	1	1.008	A BB	37390.	160.000	NG/UL	1.34
20	108	523	8:43	1	1.108	A BB	18086.	160.000	NG/UL	1.34
21	146	509	8:29	1	1.078	A BB	34336.	160.000	NG/UL	1.34
22	108	562	9:22	1	1.191	A BB	32924.	160.000	NG/UL	1.34
23	45	553	9:13	1	1.172	A BB	34720.	160.000	NG/UL	1.34
24	108	594	9:54	1	1.258	A BB	37337.	160.000	NG/UL	1.34
25	70	584	9:44	1	1.237	A BB	31515.	160.000	NG/UL	1.34
26	117	567	9:27	1	1.201	A BB	15240.	160.000	NG/UL	1.34
27	77	592	9:52	2	0.821	A BB	54860.	160.000	NG/UL	1.34
28	82	649	10:49	2	0.900	A BB	67837.	160.000	NG/UL	1.34
29	139	655	10:55	2	0.908	A BB	17524.	160.000	NG/UL	1.34
30	107	694	11:34	2	0.963	A BB	28008.	160.000	NG/UL	1.34
31	93	707	11:47	2	0.981	A BB	37337.	160.000	NG/UL	1.34
32	162	710	11:50	2	0.985	A BB	22995.	160.000	NG/UL	1.34
33	180	718	11:58	2	0.996	A BB	25477.	160.000	NG/UL	1.34
34	128	725	12:05	2	1.006	A BV	83277.	160.000	NG/UL	1.34
35	127	755	12:35	2	1.047	A BB	36419.	160.000	NG/UL	1.34
36	225	774	12:54	2	1.074	A BB	12522.	160.000	NG/UL	1.34
37	107	874	14:34	2	1.212	A BB	23389.	160.000	NG/UL	1.34
38	142	867	14:27	2	1.202	A BV	52477.	160.000	NG/UL	1.34
39	237	919	15:19	3	0.853	A BB	13424.	160.000	NG/UL	1.34
40	196	941	15:41	3	0.873	A BV	18108.	160.000	NG/UL	1.34
41	196	947	15:47	3	0.878	A VB	17202.	160.000	NG/UL	1.34
42	162	963	16:03	3	0.893	A BB	48032.	160.000	NG/UL	1.34
43	65	1003	16:43	3	0.930	A BB	21721.	160.000	NG/UL	1.34
44	163	1064	17:44	3	0.987	A BB	52311.	160.000	NG/UL	1.34
45	152	1044	17:24	3	0.968	A BB	80734.	160.000	NG/UL	1.34
46	138	1090	18:10	3	1.011	A BB	16540.	160.000	NG/UL	1.34
47	153	1085	18:05	3	1.006	A BB	42030.	160.000	NG/UL	1.34
48	184	1109	18:29	3	1.029	A BB	8941.	160.000	NG/UL	1.34
49	109	1148	19:08	3	1.065	A BB	11090.	160.000	NG/UL	1.34
50	168	1119	18:39	3	1.038	A BB	67660.	160.000	NG/UL	1.34

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:56	0.99	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	18:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	22:41	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	30:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	33:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:28	0.99	0.563	0.99	160.00	160.00	1.652	1.652	1.00
8	7:24	0.99	0.933	1.00	160.00	160.00	1.299	1.299	1.00
9	7:34	1.00	0.954	1.00	160.00	160.00	1.650	1.650	1.00
10	8:30	0.99	1.071	1.00	160.00	160.00	0.886	0.886	1.00
11	9:50	1.00	0.815	1.00	160.00	160.00	0.520	0.520	1.00
12	16:00	1.00	0.888	1.00	160.00	160.00	1.319	1.319	1.00
13	20:39	1.00	1.146	1.00	160.00	160.00	0.143	0.143	1.00
14	27:49	1.00	0.915	1.00	160.00	160.00	1.138	1.138	1.00
15	7:36	1.00	0.958	1.00	160.00	160.00	1.663	1.663	1.00
16	7:30	0.99	0.945	1.00	160.00	160.00	1.331	1.331	1.00
17	7:27	0.99	0.939	1.00	160.00	160.00	1.319	1.319	1.00
18	7:47	0.99	0.981	1.00	160.00	160.00	1.454	1.454	1.00
19	7:59	0.99	1.006	1.00	160.00	160.00	1.495	1.495	1.00
20	8:45	1.00	1.103	1.00	160.00	160.00	0.723	0.723	1.00
21	8:32	0.99	1.076	1.00	160.00	160.00	1.373	1.373	1.00
22	9:25	0.99	1.187	1.00	160.00	160.00	1.316	1.316	1.00
23	9:16	0.99	1.168	1.00	160.00	160.00	1.388	1.388	1.00
24	9:56	1.00	1.252	1.01	160.00	160.00	1.493	1.493	1.00
25	9:44	1.00	1.227	1.01	160.00	160.00	1.260	1.260	1.00
26	9:30	0.99	1.197	1.00	160.00	160.00	0.609	0.609	1.00
27	9:54	1.00	0.820	1.00	160.00	160.00	0.721	0.721	1.00
28	10:47	1.00	0.894	1.01	160.00	160.00	0.892	0.892	1.00
29	10:58	1.00	0.909	1.00	160.00	160.00	0.230	0.230	1.00
30	11:36	1.00	0.961	1.00	160.00	160.00	0.368	0.368	1.00
31	11:49	1.00	0.979	1.00	160.00	160.00	0.491	0.491	1.00
32	11:52	1.00	0.983	1.00	160.00	160.00	0.302	0.302	1.00
33	12:01	1.00	0.996	1.00	160.00	160.00	0.335	0.335	1.00
34	12:07	1.00	1.004	1.00	160.00	160.00	1.094	1.094	1.00
35	12:37	1.00	1.046	1.00	160.00	160.00	0.479	0.479	1.00
36	12:58	0.99	1.075	1.00	160.00	160.00	0.165	0.165	1.00
37	14:38	1.00	1.213	1.00	160.00	160.00	0.307	0.307	1.00
38	14:30	1.00	1.202	1.00	160.00	160.00	0.690	0.690	1.00
39	15:23	1.00	0.854	1.00	160.00	160.00	0.334	0.334	1.00
40	15:43	1.00	0.872	1.00	160.00	160.00	0.450	0.450	1.00
41	15:50	1.00	0.879	1.00	160.00	160.00	0.428	0.428	1.00
42	16:05	1.00	0.893	1.00	160.00	160.00	1.194	1.194	1.00
43	16:45	1.00	0.930	1.00	160.00	160.00	0.540	0.540	1.00
44	17:44	1.00	0.984	1.00	160.00	160.00	1.300	1.300	1.00
45	17:27	1.00	0.969	1.00	160.00	160.00	2.007	2.007	1.00
46	18:11	1.00	1.009	1.00	160.00	160.00	0.411	0.411	1.00
47	18:07	1.00	1.006	1.00	160.00	160.00	1.045	1.045	1.00
48	18:30	1.00	1.027	1.00	160.00	160.00	0.222	0.222	1.00
49	19:11	1.00	1.065	1.00	160.00	160.00	0.276	0.276	1.00
50	18:41	1.00	1.037	1.00	160.00	160.00	1.682	1.682	1.00

Quantitation Report File: 160BY1120

Data: 160BY1120.TI
11/20/93 12:47:00
Sample: SSTD160
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.001
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	C570 2,4-DINITROTOLUENE
52	C543 2,6-DINITROTOLUENE
53	C580 DIETHYL PHTHALATE
54	C585 4-CHLOROPHENYL PHENYLETHER
55	C590 FLUORENE
56	C595 4-NITROANILINE
57	C610 4,6-DINITRO-2-METHYLPHENOL
58	C615 N-NITROSODIPHENYLAMINE
59	C625 4-BROMOPHENYL PHENYLETHER
60	C630 HEXACHLOROBENZENE
61	C635 PENTACHLOROPHENOL
62	C640 PHENANTHRENE
63	C645 ANTHRACENE
64	C646 CARBAZOLE
65	C650 DI-N-BUTYL PHTHALATE
66	C655 FLUORANTHENE
67	C715 PYRENE
68	C720 BUTYL BENZYL PHTHALATE
69	C725 3,3'-DICHLOROBENZIDINE
70	C730 BENZO(A) ANTHRACENE
71	C745 BIS(2-ETHYLHEXYL) PHTHALATE
72	C740 CHRYSENE
73	C760 DI-N-OCTYL PHTHALATE
74	C765 BENZO(B) FLUORANTHENE
75	C770 BENZO(K) FLUORANTHENE
76	C775 BENZO(A) PYRENE
77	C780 INDENO(1,2,3-CD) PYRENE
78	C785 DIBENZ(A,H) ANTHRACENE
79	C790 BENZO(GHI) PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	1142	19:02	3	1.059	A BB	17380.	160.000 NG/UL	1.34
52	165	1068	17:48	3	0.991	A BB	13546.	160.000 NG/UL	1.34
53	149	1212	20:12	3	1.124	M XX	56502.	160.000 NG/UL	1.34
54	204	1199	19:59	3	1.112	A BB	24994.	160.000 NG/UL	1.34
55	166	1185	19:45	3	1.099	A BB	55307.	160.000 NG/UL	1.34
56	138	1215	20:15	3	1.127	A VB	13663.	160.000 NG/UL	1.34
57	198	1221	20:21	4	0.899	A BB	10936.	160.000 NG/UL	1.34
58	169	1228	20:28	4	0.904	A BB	36314.	160.000 NG/UL	1.34
59	248	1289	21:29	4	0.949	A BB	13368.	160.000 NG/UL	1.34
60	284	1306	21:46	4	0.962	A BB	14269.	160.000 NG/UL	1.34
61	266	1346	22:26	4	0.991	A BB	10199.	160.000 NG/UL	1.34
62	178	1363	22:43	4	1.004	A BV	80439.	160.000 NG/UL	1.34
63	178	1371	22:51	4	1.010	A VB	77078.	160.000 NG/UL	1.34
64	167	1412	23:32	4	1.040	A BB	78478.	160.000 NG/UL	1.34

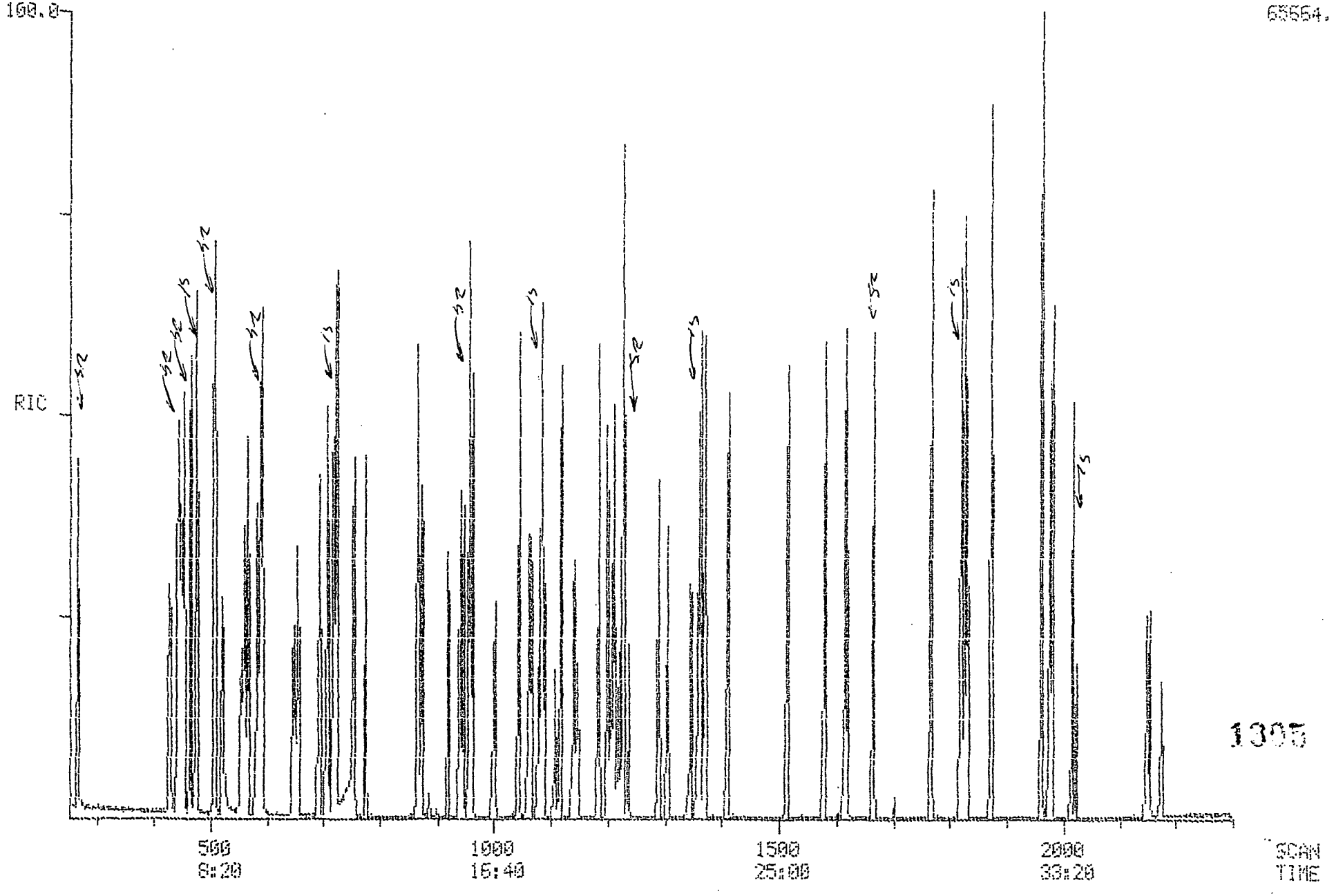
MDW 11/29/93

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
65	149	1516	25:16	4	1.116	A BB	105041.	160.000	NG/UL	1.34
66	202	1581	26:21	4	1.164	A BB	83574.	160.000	NG/UL	1.34
67	202	1617	26:57	5	0.887	A BB	84753.	160.000	NG/UL	1.34
68	149	1767	29:27	5	0.970	A BB	47895.	160.000	NG/ML	1.34
69	252	1830	30:30	5	1.004	A BB	24106.	160.000	NG/UL	1.34
70	228	1820	30:20	5	0.999	A BV	78721.	160.000	NG/UL	1.34
71	149	1872	31:12	5	1.027	A BB	69934.	160.000	NG/UL	1.34
72	228	1827	30:27	5	1.003	A VB	58785.	160.000	NG/UL	1.34
73	149	1961	32:41	6	0.969	A BV	117615.	160.000	NG/UL	1.34
74	252	1977	32:57	6	0.977	A BV	59120.	160.000	NG/UL	1.34
75	252	1981	33:01	6	0.979	A VB	42454.	160.000	NG/UL	1.34
76	252	2017	33:37	6	0.997	A BB	46565.	160.000	NG/UL	1.34
77	276	2149	35:49	6	1.062	A BV	29400.	160.000	NG/UL	1.34
78	278	2154	35:54	6	1.065	A BB	29690.	160.000	NG/UL	1.34
79	276	2176	36:16	6	1.076	A BB	24567.	160.000	NG/UL	1.34

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	19:03	1.00	1.057	1.00	160.00	160.00	0.432	0.432	1.00
52	17:49	1.00	0.989	1.00	160.00	160.00	0.337	0.337	1.00
53	20:11	1.00	1.120	1.00	160.00	160.00	1.404	1.404	1.00
54	20:02	1.00	1.112	1.00	160.00	160.00	0.621	0.621	1.00
55	19:48	1.00	1.099	1.00	160.00	160.00	1.375	1.375	1.00
56	20:14	1.00	1.123	1.00	160.00	160.00	0.340	0.340	1.00
57	20:21	1.00	0.897	1.00	160.00	160.00	0.167	0.167	1.00
58	20:30	1.00	0.904	1.00	160.00	160.00	0.554	0.554	1.00
59	21:32	1.00	0.949	1.00	160.00	160.00	0.204	0.204	1.00
60	21:48	1.00	0.961	1.00	160.00	160.00	0.218	0.218	1.00
61	22:29	1.00	0.991	1.00	160.00	160.00	0.156	0.156	1.00
62	22:45	1.00	1.003	1.00	160.00	160.00	1.228	1.228	1.00
63	22:53	1.00	1.009	1.00	160.00	160.00	1.177	1.177	1.00
64	23:34	1.00	1.039	1.00	160.00	160.00	1.198	1.198	1.00
65	25:18	1.00	1.115	1.00	160.00	160.00	1.603	1.603	1.00
66	26:24	1.00	1.164	1.00	160.00	160.00	1.276	1.276	1.00
67	26:59	1.00	0.887	1.00	160.00	160.00	1.752	1.752	1.00
68	29:30	1.00	0.970	1.00	160.00	160.00	0.990	0.990	1.00
69	30:33	1.00	1.004	1.00	160.00	160.00	0.498	0.498	1.00
70	30:23	1.00	0.999	1.00	160.00	160.00	1.627	1.627	1.00
71	31:15	1.00	1.027	1.00	160.00	160.00	1.446	1.446	1.00
72	30:29	1.00	1.002	1.00	160.00	160.00	1.215	1.215	1.00
73	32:44	1.00	0.969	1.00	160.00	160.00	3.063	3.063	1.00
74	33:00	1.00	0.977	1.00	160.00	160.00	1.540	1.540	1.00
75	33:03	1.00	0.978	1.00	160.00	160.00	1.106	1.106	1.00
76	33:40	1.00	0.997	1.00	160.00	160.00	1.213	1.213	1.00
77	35:53	1.00	1.062	1.00	160.00	160.00	0.766	0.766	1.00
78	35:57	1.00	1.064	1.00	160.00	160.00	0.773	0.773	1.00
79	36:19	1.00	1.075	1.00	160.00	160.00	0.640	0.640	1.00

RIC
11/20/93 14:19:00
SAMPLE: SSTD120
CONDS.: INST. 025 (40F2T018009T0310010HS)
RANGE: G 1.2300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 120BY1120 #1 SCANS 250 TO 2300
CALI: 120BY1120 #3



1305

Quantitation Report File: 120BY1120

Data: 120BY1120.TI
11/20/93 14:19:00
Sample: SSTD120
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.000
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT.STD.)***
2	CI40 D8-NAPHTHALENE***(INT.STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT.STD.)****
5	CI70 D12-CHRYSENE***(INT.STD.)***
6	CI75 D12-PERYLENE***(INT.STD.)***
7	CS50 2-FLUOROPHENOL***(SURR.STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR.STD)***
9	CS45 D6-PHENOL***(SURR.STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR.STD)***
11	CS20 D5-NITROBENZENE***(SURR.STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR.STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR.STD.)***
14	CS30 D14-TERPHENYL***(SURR.STD.)***
15	C315 PHENOL
16	C325 BIS(2-CHLOROETHYL) ETHER
17	C330 2-CHLOROPHENOL
18	C335 1,3-DICHLOROBENZENE
19	C340 1,4-DICHLOROBENZENE
20	C345 BENZYL ALCOHOL
21	C350 1,2-DICHLOROBENZENE
22	C355 2-METHYLPHENOL
23	C360 2,2'-OXYBIS(1-CHLOROPROPANE)
24	C365 4-METHYLPHENOL
25	C370 N-NITROSO-DI-N-PROPYLAMINE
26	C375 HEXACHLOROETHANE
27	C410 NITROBENZENE
28	C415 ISOPHORONE
29	C420 2-NITROPHENOL
30	C425 2,4-DIMETHYLPHENOL
31	C435 BIS(2-CHLOROETHOXY) METHANE
32	C440 2,4-DICHLOROPHENOL
33	C445 1,2,4-TRICHLOROBENZENE
34	C450 NAPHTHALENE
35	C455 4-CHLOROANILINE
36	C460 HEXACHLOROBUTADIENE
37	C465 4-CHLORO-3-METHYLPHENOL
38	C470 2-METHYLNAPHTHALENE
39	C510 HEXACHLOROCYCLOPENTADIENE
40	C515 2,4,6-TRICHLOROPHENOL
41	C520 2,4,5-TRICHLOROPHENOL
42	C525 2-CHLORONAPHTHALENE
43	C530 2-NITROANILINE
44	C535 DIMETHYLPHTHALATE
45	C540 ACENAPHTHYLENE
46	C545 3-NITROANILINE
47	C550 ACENAPHTHENE

No	Name
48	C555 2,4-DINITROPHENOL
49	C560 4-NITROPHENOL
50	C565 DIBENZOFURAN

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	473	7:53	1	1.000	A BB	5974.	40.000	NG/UL	0.44
2	136	722	12:02	2	1.000	A BB	18397.	40.000	NG/UL	0.44
3	164	1078	17:58	3	1.000	A BB	9415.	40.000	NG/UL	0.44
4	188	1358	22:38	4	1.000	A BB	14503.	40.000	NG/UL	0.44
5	240	1822	30:22	5	1.000	A VB	11310.	40.000	NG/UL	0.44
6	264	2024	33:44	6	1.000	A BB	10184.	40.000	NG/UL	0.44
7	112	266	4:26	1	0.562	A BV	22870.	120.000	NG/UL	1.33
8	132	442	7:22	1	0.934	A BB	23593.	120.000	NG/UL	1.33
9	99	452	7:32	1	0.956	A BB	30488.	120.000	NG/UL	1.33
10	152	507	8:27	1	1.072	A BB	16667.	120.000	NG/UL	1.33
11	82	589	9:49	2	0.816	A BB	28080.	120.000	NG/UL	1.33
12	172	958	15:58	3	0.889	A BB	39846.	120.000	NG/UL	1.33
13	330	1237	20:37	3	1.147	A BB	4068.	120.000	NG/UL	1.33
14	244	1667	27:47	5	0.915	A BB	39541.	120.000	NG/UL	1.33
15	94	455	7:35	1	0.962	A BB	31793.	120.000	NG/UL	1.33
16	93	448	7:28	1	0.947	A BB	23919.	120.000	NG/UL	1.33
17	128	445	7:25	1	0.941	A BB	23747.	120.000	NG/UL	1.33
18	146	465	7:45	1	0.983	A BB	25943.	120.000	NG/UL	1.33
19	146	477	7:57	1	1.008	A BB	26496.	120.000	NG/UL	1.33
20	108	523	8:43	1	1.106	A BB	12951.	120.000	NG/UL	1.33
21	146	510	8:30	1	1.078	A BB	24591.	120.000	NG/UL	1.33
22	108	562	9:22	1	1.188	A BB	19552.	120.000	NG/UL	1.33
23	45	554	9:14	1	1.171	A BB	24057.	120.000	NG/UL	1.33
24	108	594	9:54	1	1.256	A BB	20940.	120.000	NG/UL	1.33
25	70	584	9:44	1	1.235	A BB	22133.	120.000	NG/UL	1.33
26	117	568	9:28	1	1.201	A BB	11073.	120.000	NG/UL	1.33
27	77	592	9:52	2	0.820	A BB	36429.	120.000	NG/UL	1.33
28	82	648	10:48	2	0.898	A BB	49336.	120.000	NG/UL	1.33
29	139	656	10:56	2	0.909	A BB	13031.	120.000	NG/UL	1.33
30	107	694	11:34	2	0.961	A BB	21787.	120.000	NG/UL	1.33
31	93	707	11:47	2	0.979	A BB	28329.	120.000	NG/UL	1.33
32	162	710	11:50	2	0.983	A BB	18152.	120.000	NG/UL	1.33
33	180	718	11:58	2	0.994	A BB	19502.	120.000	NG/UL	1.33
34	128	726	12:06	2	1.006	A BB	63835.	120.000	NG/UL	1.33
35	127	755	12:35	2	1.046	A BB	27556.	120.000	NG/UL	1.33
36	225	775	12:55	2	1.073	A BB	9277.	120.000	NG/UL	1.33
37	107	874	14:34	2	1.211	A BB	18287.	120.000	NG/UL	1.33
38	142	867	14:27	2	1.201	A BV	39814.	120.000	NG/UL	1.33
39	237	920	15:20	3	0.853	A BB	9552.	120.000	NG/UL	1.33
40	196	941	15:41	3	0.873	A BV	13012.	120.000	NG/UL	1.33
41	196	947	15:47	3	0.878	A VB	10383.	120.000	NG/UL	1.33
42	162	963	16:03	3	0.893	A BB	35501.	120.000	NG/UL	1.33
43	65	1003	16:43	3	0.930	A BB	15076.	120.000	NG/UL	1.33
44	163	1063	17:43	3	0.986	A BB	38043.	120.000	NG/UL	1.33
45	152	1045	17:25	3	0.969	A BB	58275.	120.000	NG/UL	1.33
46	138	1090	18:10	3	1.011	A BB	11794.	120.000	NG/UL	1.33
47	153	1085	18:05	3	1.006	A BB	31315.	120.000	NG/UL	1.33
48	184	1108	18:28	3	1.028	A BB	6062.	120.000	NG/UL	1.33
49	109	1147	19:07	3	1.064	A BB	7752.	120.000	NG/UL	1.33
50	168	1119	18:39	3	1.038	A BB	47636.	120.000	NG/UL	1.33

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:56	0.99	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	18:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	22:41	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	30:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	33:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:28	0.99	0.563	1.00	120.00	120.00	1.276	1.276	1.00
8	7:24	1.00	0.933	1.00	120.00	120.00	1.316	1.316	1.00
9	7:34	1.00	0.954	1.00	120.00	120.00	1.701	1.701	1.00
10	8:30	0.99	1.071	1.00	120.00	120.00	0.930	0.930	1.00
11	9:50	1.00	0.815	1.00	120.00	120.00	0.509	0.509	1.00
12	16:00	1.00	0.888	1.00	120.00	120.00	1.411	1.411	1.00
13	20:39	1.00	1.146	1.00	120.00	120.00	0.144	0.144	1.00
14	27:49	1.00	0.915	1.00	120.00	120.00	1.165	1.165	1.00
15	7:36	1.00	0.958	1.00	120.00	120.00	1.774	1.774	1.00
16	7:30	1.00	0.945	1.00	120.00	120.00	1.335	1.335	1.00
17	7:27	1.00	0.939	1.00	120.00	120.00	1.325	1.325	1.00
18	7:47	1.00	0.981	1.00	120.00	120.00	1.448	1.448	1.00
19	7:59	1.00	1.006	1.00	120.00	120.00	1.478	1.478	1.00
20	8:45	1.00	1.103	1.00	120.00	120.00	0.723	0.723	1.00
21	8:32	1.00	1.076	1.00	120.00	120.00	1.372	1.372	1.00
22	9:25	0.99	1.187	1.00	120.00	120.00	1.091	1.091	1.00
23	9:16	1.00	1.168	1.00	120.00	120.00	1.342	1.342	1.00
24	9:56	1.00	1.252	1.00	120.00	120.00	1.168	1.168	1.00
25	9:44	1.00	1.227	1.01	120.00	120.00	1.235	1.235	1.00
26	9:30	1.00	1.197	1.00	120.00	120.00	0.618	0.618	1.00
27	9:54	1.00	0.820	1.00	120.00	120.00	0.660	0.660	1.00
28	10:47	1.00	0.894	1.00	120.00	120.00	0.894	0.894	1.00
29	10:58	1.00	0.909	1.00	120.00	120.00	0.236	0.236	1.00
30	11:36	1.00	0.961	1.00	120.00	120.00	0.395	0.395	1.00
31	11:49	1.00	0.979	1.00	120.00	120.00	0.513	0.513	1.00
32	11:52	1.00	0.983	1.00	120.00	120.00	0.329	0.329	1.00
33	12:01	1.00	0.996	1.00	120.00	120.00	0.353	0.353	1.00
34	12:07	1.00	1.004	1.00	120.00	120.00	1.157	1.157	1.00
35	12:37	1.00	1.046	1.00	120.00	120.00	0.499	0.499	1.00
36	12:58	1.00	1.075	1.00	120.00	120.00	0.168	0.168	1.00
37	14:38	1.00	1.213	1.00	120.00	120.00	0.331	0.331	1.00
38	14:30	1.00	1.202	1.00	120.00	120.00	0.721	0.721	1.00
39	15:23	1.00	0.854	1.00	120.00	120.00	0.338	0.338	1.00
40	15:43	1.00	0.872	1.00	120.00	120.00	0.461	0.461	1.00
41	15:50	1.00	0.879	1.00	120.00	120.00	0.368	0.368	1.00
42	16:05	1.00	0.893	1.00	120.00	120.00	1.257	1.257	1.00
43	16:45	1.00	0.930	1.00	120.00	120.00	0.534	0.534	1.00
44	17:44	1.00	0.984	1.00	120.00	120.00	1.347	1.347	1.00
45	17:27	1.00	0.969	1.00	120.00	120.00	2.063	2.063	1.00
46	18:11	1.00	1.009	1.00	120.00	120.00	0.418	0.418	1.00
47	18:07	1.00	1.006	1.00	120.00	120.00	1.109	1.109	1.00
48	18:30	1.00	1.027	1.00	120.00	120.00	0.215	0.215	1.00
49	19:11	1.00	1.065	1.00	120.00	120.00	0.274	0.274	1.00
50	18:41	1.00	1.037	1.00	120.00	120.00	1.687	1.687	1.00

Quantitation Report File: 120BY1120

Data: 120BY1120.TI
11/20/93 14:19:00
Sample: SSTD120
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.000
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	C570 2,4-DINITROTOLUENE
52	C543 2,6-DINITROTOLUENE
53	C580 DIETHYL PHTHALATE
54	C585 4-CHLOROPHENYL PHENYLETHER
55	C590 FLUORENE
56	C595 4-NITROANILINE
57	C610 4,6-DINITRO-2-METHYLPHENOL
58	C615 N-NITROSODIPHENYLAMINE
59	C625 4-BROMOPHENYL PHENYLETHER
60	C630 HEXACHLOROBENZENE
61	C635 PENTACHLOROPHENOL
62	C640 PHENANTHRENE
63	C645 ANTHRACENE
64	C646 CARBAZOLE
65	C650 DI-N-BUTYL PHTHALATE
66	C655 FLUORANTHENE
67	C715 PYRENE
68	C720 BUTYL BENZYL PHTHALATE
69	C725 3,3'-DICHLOROBENZIDINE
70	C730 BENZO(A) ANTHRACENE
71	C745 BIS(2-ETHYLHEXYL) PHTHALATE
72	C740 CHRYSENE
73	C760 DI-N-OCTYL PHTHALATE
74	C765 BENZO(B) FLUORANTHENE
75	C770 BENZO(K) FLUORANTHENE
76	C775 BENZO(A) PYRENE
77	C780 INDENO(1,2,3-CD) PYRENE
78	C785 DIBENZ(A,H) ANTHRACENE
79	C790 BENZO(GHI) PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	1142	19:02	3	1.059	A BB	12235.	120.000 NG/UL	1.33
52	165	1068	17:48	3	0.991	A BB	9814.	120.000 NG/UL	1.33
53	149	1211	20:11	3	1.123	M XX	39967.	120.000 NG/UL	1.33
54	204	1200	20:00	3	1.113	A BB	17591.	120.000 NG/UL	1.33
55	166	1186	19:46	3	1.100	A BB	38825.	120.000 NG/UL	1.33
56	138	1214	20:14	3	1.126	A VB	9245.	120.000 NG/UL	1.33
57	198	1220	20:20	4	0.898	A BB	7468.	120.000 NG/UL	1.33
58	169	1228	20:28	4	0.904	A BB	25222.	120.000 NG/UL	1.33
59	248	1290	21:30	4	0.950	A BB	8958.	120.000 NG/UL	1.33
60	284	1306	21:46	4	0.962	A BB	9477.	120.000 NG/UL	1.33
61	266	1346	22:26	4	0.991	A BB	7067.	120.000 NG/UL	1.33
62	178	1363	22:43	4	1.004	A BV	55673.	120.000 NG/UL	1.33
63	178	1371	22:51	4	1.010	A VB	57122.	120.000 NG/UL	1.33
64	167	1412	23:32	4	1.040	A BB	54962.	120.000 NG/UL	1.33

MW 11/29/93

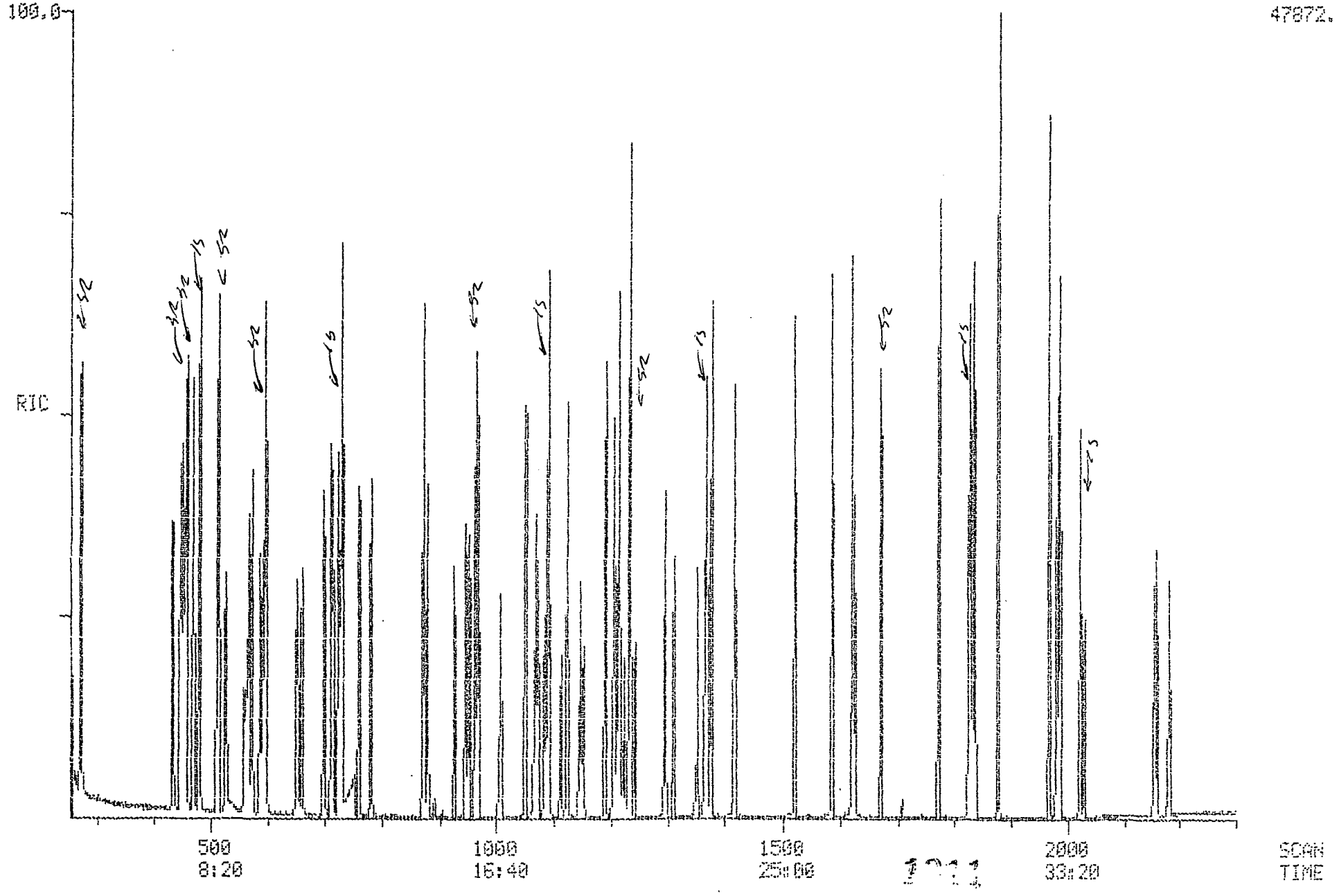
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
65	149	1516	25:16	4	1.116	A BB	72639.	120.000	NG/UL	1.33
66	202	1582	26:22	4	1.165	A BB	59903.	120.000	NG/UL	1.33
67	202	1617	26:57	5	0.887	A BB	62384.	120.000	NG/UL	1.33
68	149	1768	29:28	5	0.970	A BB	34480.	120.000	NG/ML	1.33
69	252	1831	30:31	5	1.005	A BB	19551.	120.000	NG/UL	1.33
70	228	1821	30:21	5	0.999	A BV	59092.	120.000	NG/UL	1.33
71	149	1872	31:12	5	1.027	A BB	47702.	120.000	NG/UL	1.33
72	228	1827	30:27	5	1.003	A VB	44408.	120.000	NG/UL	1.33
73	149	1962	32:42	6	0.969	A BB	83641.	120.000	NG/UL	1.33
74	252	1977	32:57	6	0.977	A BV	50864.	120.000	NG/UL	1.33
75	252	1982	33:02	6	0.979	A VB	36141.	120.000	NG/UL	1.33
76	252	2018	33:38	6	0.997	A BB	40515.	120.000	NG/UL	1.33
77	276	2149	35:49	6	1.062	A BV	19772.	120.000	NG/UL	1.33
78	278	2154	35:54	6	1.064	A BB	21256.	120.000	NG/UL	1.33
79	276	2175	36:15	6	1.075	A BB	14291.	120.000	NG/UL	1.33

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	19:03	1.00	1.057	1.00	120.00	120.00	0.433	0.433	1.00
52	17:49	1.00	0.989	1.00	120.00	120.00	0.347	0.347	1.00
53	20:11	1.00	1.120	1.00	120.00	120.00	1.415	1.415	1.00
54	20:02	1.00	1.112	1.00	120.00	120.00	0.623	0.623	1.00
55	19:48	1.00	1.099	1.00	120.00	120.00	1.375	1.375	1.00
56	20:14	1.00	1.123	1.00	120.00	120.00	0.327	0.327	1.00
57	20:21	1.00	0.897	1.00	120.00	120.00	0.172	0.172	1.00
58	20:30	1.00	0.904	1.00	120.00	120.00	0.580	0.580	1.00
59	21:32	1.00	0.949	1.00	120.00	120.00	0.206	0.206	1.00
60	21:48	1.00	0.961	1.00	120.00	120.00	0.218	0.218	1.00
61	22:29	1.00	0.991	1.00	120.00	120.00	0.162	0.162	1.00
62	22:45	1.00	1.003	1.00	120.00	120.00	1.280	1.280	1.00
63	22:53	1.00	1.009	1.00	120.00	120.00	1.313	1.313	1.00
64	23:34	1.00	1.039	1.00	120.00	120.00	1.263	1.263	1.00
65	25:18	1.00	1.115	1.00	120.00	120.00	1.670	1.670	1.00
66	26:24	1.00	1.164	1.00	120.00	120.00	1.377	1.377	1.00
67	26:59	1.00	0.887	1.00	120.00	120.00	1.839	1.839	1.00
68	29:30	1.00	0.970	1.00	120.00	120.00	1.016	1.016	1.00
69	30:33	1.00	1.004	1.00	120.00	120.00	0.576	0.576	1.00
70	30:23	1.00	0.999	1.00	120.00	120.00	1.742	1.742	1.00
71	31:15	1.00	1.027	1.00	120.00	120.00	1.406	1.406	1.00
72	30:29	1.00	1.002	1.00	120.00	120.00	1.309	1.309	1.00
73	32:44	1.00	0.969	1.00	120.00	120.00	2.738	2.738	1.00
74	33:00	1.00	0.977	1.00	120.00	120.00	1.665	1.665	1.00
75	33:03	1.00	0.978	1.00	120.00	120.00	1.183	1.183	1.00
76	33:40	1.00	0.997	1.00	120.00	120.00	1.326	1.326	1.00
77	35:53	1.00	1.062	1.00	120.00	120.00	0.647	0.647	1.00
78	35:57	1.00	1.064	1.00	120.00	120.00	0.696	0.696	1.00
79	36:19	1.00	1.075	1.00	120.00	120.00	0.468	0.468	1.00

RIC
11/20/93 15:05:00
SAMPLE: SSTD080
CONDS.: INST. 025 (40F2T0180@3T0310@10H9)
RANGE: G 1.2300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 80BY1120 #1
CALI: 80BY1120 #3

SCANS 250 TO 2300



Quantitation Report File: 80BY1120

Data: 80BY1120.TI
11/20/93 15:05:00
Sample: SSTD080
Conds.: INST. 025 (4OF2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.000
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT.STD.)***
2	CI40 D8-NAPHTHALENE***(INT.STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT.STD.)****
5	CI70 D12-CHRYSENE***(INT.STD.)***
6	CI75 D12-PERYLENE***(INT.STD.)***
7	CS50 2-FLUOROPHENOL***(SURR.STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR.STD)***
9	CS45 D6-PHENOL***(SURR.STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR.STD)***
11	CS20 D5-NITROBENZENE***(SURR.STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR.STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR.STD.)***
14	CS30 D14-TERPHENYL***(SURR.STD.)***
15	C315 PHENOL
16	C325 BIS(2-CHLOROETHYL) ETHER
17	C330 2-CHLOROPHENOL
18	C335 1,3-DICHLOROBENZENE
19	C340 1,4-DICHLOROBENZENE
20	C345 BENZYL ALCOHOL
21	C350 1,2-DICHLOROBENZENE
22	C355 2-METHYLPHENOL
23	C360 2,2'-OXYBIS(1-CHLOROPROPANE)
24	C365 4-METHYLPHENOL
25	C370 N-NITROSO-DI-N-PROPYLAMINE
26	C375 HEXACHLOROETHANE
27	C410 NITROBENZENE
28	C415 ISOPHORONE
29	C420 2-NITROPHENOL
30	C425 2,4-DIMETHYLPHENOL
31	C435 BIS(2-CHLOROETHOXY) METHANE
32	C440 2,4-DICHLOROPHENOL
33	C445 1,2,4-TRICHLOROBENZENE
34	C450 NAPHTHALENE
35	C455 4-CHLOROANILINE
36	C460 HEXACHLOROBUTADIENE
37	C465 4-CHLORO-3-METHYLPHENOL
38	C470 2-METHYLNAPHTHALENE
39	C510 HEXACHLOROCYCLOPENTADIENE
40	C515 2,4,6-TRICHLOROPHENOL
41	C520 2,4,5-TRICHLOROPHENOL
42	C525 2-CHLORONAPHTHALENE
43	C530 2-NITROANILINE
44	C535 DIMETHYLPHTHALATE
45	C540 ACENAPHTHYLENE
46	C545 3-NITROANILINE
47	C550 ACENAPHTHENE

No	Name
48	C555 2,4-DINITROPHENOL
49	C560 4-NITROPHENOL
50	C565 DIBENZOFURAN

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	479	7:59	1	1.000	A BB	5485.	40.000	NG/UL	0.66
2	136	727	12:07	2	1.000	A BB	17622.	40.000	NG/UL	0.66
3	164	1084	18:04	3	1.000	A BB	9612.	40.000	NG/UL	0.66
4	188	1364	22:44	4	1.000	A BB	14963.	40.000	NG/UL	0.66
5	240	1828	30:28	5	1.000	A BB	13175.	40.000	NG/UL	0.66
6	264	2030	33:50	6	1.000	A BB	10350.	40.000	NG/UL	0.66
7	112	269	4:29	1	0.562	A BB	21001.	80.000	NG/UL	1.32
8	132	447	7:27	1	0.933	A BB	15648.	80.000	NG/UL	1.32
9	99	457	7:37	1	0.954	A BB	20218.	80.000	NG/UL	1.32
10	152	513	8:33	1	1.071	A BB	10422.	80.000	NG/UL	1.32
11	82	594	9:54	2	0.817	A BB	18115.	80.000	NG/UL	1.32
12	172	963	16:03	3	0.888	A BB	25935.	80.000	NG/UL	1.32
13	330	1242	20:42	3	1.146	A BB	2701.	80.000	NG/UL	1.32
14	244	1672	27:52	5	0.915	A BB	25429.	80.000	NG/UL	1.32
15	94	459	7:39	1	0.958	A BB	20542.	80.000	NG/UL	1.32
16	93	453	7:33	1	0.946	A BB	16287.	80.000	NG/UL	1.32
17	128	450	7:30	1	0.939	A BB	15883.	80.000	NG/UL	1.32
18	146	470	7:50	1	0.981	A BB	17051.	80.000	NG/UL	1.32
19	146	482	8:02	1	1.006	A BB	17582.	80.000	NG/UL	1.32
20	108	527	8:47	1	1.100	A BB	9088.	80.000	NG/UL	1.32
21	146	515	8:35	1	1.075	A BB	16172.	80.000	NG/UL	1.32
22	108	567	9:27	1	1.184	A BB	12228.	80.000	NG/UL	1.32
23	45	559	9:19	1	1.167	A BB	15886.	80.000	NG/UL	1.32
24	108	599	9:59	1	1.251	A BB	13200.	80.000	NG/UL	1.32
25	70	588	9:48	1	1.228	A BV	12267.	80.000	NG/UL	1.32
26	117	573	9:33	1	1.196	A BB	7231.	80.000	NG/UL	1.32
27	77	597	9:57	2	0.821	A BB	23034.	80.000	NG/UL	1.32
28	82	652	10:52	2	0.897	A BB	31298.	80.000	NG/UL	1.32
29	139	661	11:01	2	0.909	A BB	7558.	80.000	NG/UL	1.32
30	107	699	11:39	2	0.961	A BB	13052.	80.000	NG/UL	1.32
31	93	712	11:52	2	0.979	A BB	17401.	80.000	NG/UL	1.32
32	162	715	11:55	2	0.983	A BB	10921.	80.000	NG/UL	1.32
33	180	724	12:04	2	0.996	A BB	12117.	80.000	NG/UL	1.32
34	128	731	12:11	2	1.006	A BB	39979.	80.000	NG/UL	1.32
35	127	760	12:40	2	1.045	A BB	17214.	80.000	NG/UL	1.32
36	225	781	13:01	2	1.074	A BB	5686.	80.000	NG/UL	1.32
37	107	880	14:40	2	1.210	A BB	11515.	80.000	NG/UL	1.32
38	142	873	14:33	2	1.201	A BV	24924.	80.000	NG/UL	1.32
39	237	926	15:26	3	0.854	A BB	5995.	80.000	NG/UL	1.32
40	196	946	15:46	3	0.873	A BV	7758.	80.000	NG/UL	1.32
41	196	952	15:52	3	0.878	A VB	7063.	80.000	NG/UL	1.32
42	162	968	16:08	3	0.893	A BB	23148.	80.000	NG/UL	1.32
43	65	1008	16:48	3	0.930	A BB	9954.	80.000	NG/UL	1.32
44	163	1068	17:48	3	0.985	A BB	26441.	80.000	NG/UL	1.32
45	152	1050	17:30	3	0.969	A BB	38136.	80.000	NG/UL	1.32
46	138	1094	18:14	3	1.009	A BB	8052.	80.000	NG/UL	1.32
47	153	1091	18:11	3	1.006	A BB	20642.	80.000	NG/UL	1.32
48	184	1113	18:33	3	1.027	A BB	3987.	80.000	NG/UL	1.32
49	109	1152	19:12	3	1.063	A BB	4861.	80.000	NG/UL	1.32
50	168	1124	18:44	3	1.037	A BB	32415.	80.000	NG/UL	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:56	1.01	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	18:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	22:41	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	30:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	33:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:28	1.00	0.563	1.00	80.00	80.00	1.914	1.914	1.00
8	7:24	1.01	0.933	1.00	80.00	80.00	1.426	1.426	1.00
9	7:34	1.01	0.954	1.00	80.00	80.00	1.843	1.843	1.00
10	8:30	1.01	1.071	1.00	80.00	80.00	0.950	0.950	1.00
11	9:50	1.01	0.815	1.00	80.00	80.00	0.514	0.514	1.00
12	16:00	1.00	0.888	1.00	80.00	80.00	1.349	1.349	1.00
13	20:39	1.00	1.146	1.00	80.00	80.00	0.141	0.141	1.00
14	27:49	1.00	0.915	1.00	80.00	80.00	0.965	0.965	1.00
15	7:36	1.01	0.958	1.00	80.00	80.00	1.873	1.873	1.00
16	7:30	1.01	0.945	1.00	80.00	80.00	1.485	1.485	1.00
17	7:27	1.01	0.939	1.00	80.00	80.00	1.448	1.448	1.00
18	7:47	1.01	0.981	1.00	80.00	80.00	1.554	1.554	1.00
19	7:59	1.01	1.006	1.00	80.00	80.00	1.603	1.603	1.00
20	8:45	1.00	1.103	1.00	80.00	80.00	0.828	0.828	1.00
21	8:32	1.01	1.076	1.00	80.00	80.00	1.474	1.474	1.00
22	9:25	1.00	1.187	1.00	80.00	80.00	1.115	1.115	1.00
23	9:16	1.01	1.168	1.00	80.00	80.00	1.448	1.448	1.00
24	9:56	1.01	1.252	1.00	80.00	80.00	1.203	1.203	1.00
25	9:44	1.01	1.227	1.00	80.00	80.00	1.118	1.118	1.00
26	9:30	1.01	1.197	1.00	80.00	80.00	0.659	0.659	1.00
27	9:54	1.01	0.820	1.00	80.00	80.00	0.654	0.654	1.00
28	10:47	1.01	0.894	1.00	80.00	80.00	0.888	0.888	1.00
29	10:58	1.00	0.909	1.00	80.00	80.00	0.214	0.214	1.00
30	11:36	1.00	0.961	1.00	80.00	80.00	0.370	0.370	1.00
31	11:49	1.00	0.979	1.00	80.00	80.00	0.494	0.494	1.00
32	11:52	1.00	0.983	1.00	80.00	80.00	0.310	0.310	1.00
33	12:01	1.00	0.996	1.00	80.00	80.00	0.344	0.344	1.00
34	12:07	1.01	1.004	1.00	80.00	80.00	1.134	1.134	1.00
35	12:37	1.00	1.046	1.00	80.00	80.00	0.488	0.488	1.00
36	12:58	1.00	1.075	1.00	80.00	80.00	0.161	0.161	1.00
37	14:38	1.00	1.213	1.00	80.00	80.00	0.327	0.327	1.00
38	14:30	1.00	1.202	1.00	80.00	80.00	0.707	0.707	1.00
39	15:23	1.00	0.854	1.00	80.00	80.00	0.312	0.312	1.00
40	15:43	1.00	0.872	1.00	80.00	80.00	0.404	0.404	1.00
41	15:50	1.00	0.879	1.00	80.00	80.00	0.367	0.367	1.00
42	16:05	1.00	0.893	1.00	80.00	80.00	1.204	1.204	1.00
43	16:45	1.00	0.930	1.00	80.00	80.00	0.518	0.518	1.00
44	17:44	1.00	0.984	1.00	80.00	80.00	1.375	1.375	1.00
45	17:27	1.00	0.969	1.00	80.00	80.00	1.984	1.984	1.00
46	18:11	1.00	1.009	1.00	80.00	80.00	0.419	0.419	1.00
47	18:07	1.00	1.006	1.00	80.00	80.00	1.074	1.074	1.00
48	18:30	1.00	1.027	1.00	80.00	80.00	0.207	0.207	1.00
49	19:11	1.00	1.065	1.00	80.00	80.00	0.253	0.253	1.00
50	18:41	1.00	1.037	1.00	80.00	80.00	1.686	1.686	1.00

Quantitation Report File: 80BY1120

Data: 80BY1120.TI
11/20/93 15:05:00
Sample: SSTD080
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.000
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	C570 2,4-DINITROTOLUENE
52	C543 2,6-DINITROTOLUENE
53	C580 DIETHYL PHTHALATE
54	C585 4-CHLOROPHENYL PHENYLETHER
55	C590 FLUORENE
56	C595 4-NITROANILINE
57	C610 4,6-DINITRO-2-METHYLPHENOL
58	C615 N-NITROSODIPHENYLAMINE
59	C625 4-BROMOPHENYL PHENYLETHER
60	C630 HEXACHLOROBENZENE
61	C635 PENTACHLOROPHENOL
62	C640 PHENANTHRENE
63	C645 ANTHRACENE
64	C646 CARBAZOLE
65	C650 DI-N-BUTYL PHTHALATE
66	C655 FLUORANTHENE
67	C715 PYRENE
68	C720 BUTYL BENZYL PHTHALATE
69	C725 3,3'-DICHLOROBENZIDINE
70	C730 BENZO(A) ANTHRACENE
71	C745 BIS(2-ETHYLHEXYL) PHTHALATE
72	C740 CHRYSENE
73	C760 DI-N-OCTYL PHTHALATE
74	C765 BENZO(B) FLUORANTHENE
75	C770 BENZO(K) FLUORANTHENE
76	C775 BENZO(A) PYRENE
77	C780 INDENO(1,2,3-CD) PYRENE
78	C785 DIBENZ(A,H) ANTHRACENE
79	C790 BENZO(GHI) PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	1146	19:06	3	1.057	A BB	8311.	80.000 NG/UL	1.32
52	165	1073	17:53	3	0.990	A BB	6609.	80.000 NG/UL	1.32
53	149	1215	20:15	3	1.121	A BB	27608.	80.000 NG/UL	1.32
54	204	1206	20:06	3	1.113	A BB	11702.	80.000 NG/UL	1.32
55	166	1191	19:51	3	1.099	A BB	26533.	80.000 NG/UL	1.32
56	138	1217	20:17	3	1.123	A BB	8024.	80.000 NG/UL	1.32
57	198	1224	20:24	4	0.897	A BB	4832.	80.000 NG/UL	1.32
58	169	1233	20:33	4	0.904	A BB	17293.	80.000 NG/UL	1.32
59	248	1295	21:35	4	0.949	A BB	6025.	80.000 NG/UL	1.32
60	284	1311	21:51	4	0.961	A BB	6561.	80.000 NG/UL	1.32
61	266	1351	22:31	4	0.990	A BB	4679.	80.000 NG/UL	1.32
62	178	1368	22:48	4	1.003	A BV	38890.	80.000 NG/UL	1.32
63	178	1377	22:57	4	1.010	A VB	38946.	80.000 NG/UL	1.32
64	167	1417	23:37	4	1.039	A BB	38335.	80.000 NG/UL	1.32

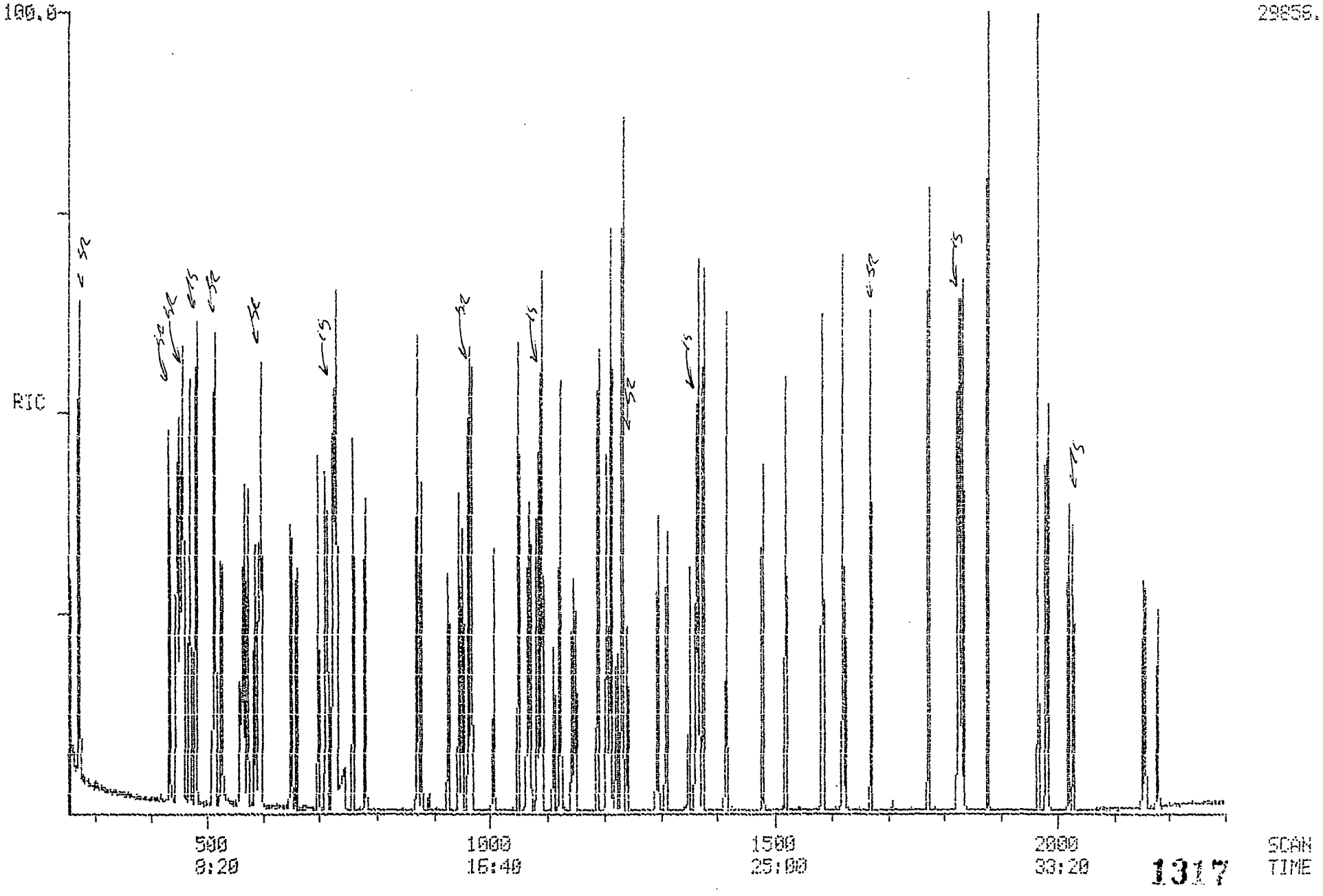
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
65	149	1522	25:22	4	1.116	A BB	49014.	80.000 NG/UL	1.32
66	202	1587	26:27	4	1.163	A BB	39157.	80.000 NG/UL	1.32
67	202	1623	27:03	5	0.888	A BB	40300.	80.000 NG/UL	1.32
68	149	1773	29:33	5	0.970	A BB	22476.	80.000 NG/ML	1.32
69	252	1836	30:36	5	1.004	A BB	11879.	80.000 NG/UL	1.32
70	228	1826	30:26	5	0.999	A BV	37695.	80.000 NG/UL	1.32
71	149	1878	31:18	5	1.027	A BB	30299.	80.000 NG/UL	1.32
72	228	1832	30:32	5	1.002	A VB	30151.	80.000 NG/UL	1.32
73	149	1967	32:47	6	0.969	A BB	54986.	80.000 NG/UL	1.32
74	252	1983	33:03	6	0.977	A BV	32047.	80.000 NG/UL	1.32
75	252	1987	33:07	6	0.979	A VB	25914.	80.000 NG/UL	1.32
76	252	2023	33:43	6	0.997	A BB	25348.	80.000 NG/UL	1.32
77	276	2155	35:55	6	1.062	A BV	16169.	80.000 NG/UL	1.32
78	278	2160	36:00	6	1.064	A BB	15957.	80.000 NG/UL	1.32
79	276	2182	36:22	6	1.075	A BB	14595.	80.000 NG/UL	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	19:03	1.00	1.057	1.00	80.00	80.00	0.432	0.432	1.00
52	17:49	1.00	0.989	1.00	80.00	80.00	0.344	0.344	1.00
53	20:11	1.00	1.120	1.00	80.00	80.00	1.436	1.436	1.00
54	20:02	1.00	1.112	1.00	80.00	80.00	0.609	0.609	1.00
55	19:48	1.00	1.099	1.00	80.00	80.00	1.380	1.380	1.00
56	20:14	1.00	1.123	1.00	80.00	80.00	0.417	0.417	1.00
57	20:21	1.00	0.897	1.00	80.00	80.00	0.161	0.161	1.00
58	20:30	1.00	0.904	1.00	80.00	80.00	0.578	0.578	1.00
59	21:32	1.00	0.949	1.00	80.00	80.00	0.201	0.201	1.00
60	21:48	1.00	0.961	1.00	80.00	80.00	0.219	0.219	1.00
61	22:29	1.00	0.991	1.00	80.00	80.00	0.156	0.156	1.00
62	22:45	1.00	1.003	1.00	80.00	80.00	1.300	1.300	1.00
63	22:53	1.00	1.009	1.00	80.00	80.00	1.301	1.301	1.00
64	23:34	1.00	1.039	1.00	80.00	80.00	1.281	1.281	1.00
65	25:18	1.00	1.115	1.00	80.00	80.00	1.638	1.638	1.00
66	26:24	1.00	1.164	1.00	80.00	80.00	1.308	1.308	1.00
67	26:59	1.00	0.887	1.00	80.00	80.00	1.529	1.529	1.00
68	29:30	1.00	0.970	1.00	80.00	80.00	0.853	0.853	1.00
69	30:33	1.00	1.004	1.00	80.00	80.00	0.451	0.451	1.00
70	30:23	1.00	0.999	1.00	80.00	80.00	1.431	1.431	1.00
71	31:15	1.00	1.027	1.00	80.00	80.00	1.150	1.150	1.00
72	30:29	1.00	1.002	1.00	80.00	80.00	1.144	1.144	1.00
73	32:44	1.00	0.969	1.00	80.00	80.00	2.656	2.656	1.00
74	33:00	1.00	0.977	1.00	80.00	80.00	1.548	1.548	1.00
75	33:03	1.00	0.978	1.00	80.00	80.00	1.252	1.252	1.00
76	33:40	1.00	0.997	1.00	80.00	80.00	1.225	1.225	1.00
77	35:53	1.00	1.062	1.00	80.00	80.00	0.781	0.781	1.00
78	35:57	1.00	1.064	1.00	80.00	80.00	0.771	0.771	1.00
79	36:19	1.00	1.075	1.00	80.00	80.00	0.705	0.705	1.00

RIC
11/20/93 15:51:00
SAMPLE: SSTD050
CONDS.: INST. 025 (40F2TO180@9TO310@10H9)
RANGE: G 1.2300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 508Y1120 #1
CALI: 50BY1120 #3

SCANS 250 TO 2300



Quantitation Report File: 50BY1120

Data: 50BY1120.TI
11/20/93 15:51:00
Sample: SSTD050
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.000
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT.STD.)***
2	CI40 D8-NAPHTHALENE***(INT.STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT.STD.)****
5	CI70 D12-CHRYSENE***(INT.STD.)***
6	CI75 D12-PERYLENE***(INT.STD.)***
7	CS50 2-FLUOROPHENOL***(SURR.STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR.STD)***
9	CS45 D6-PHENOL***(SURR.STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR.STD)***
11	CS20 D5-NITROBENZENE***(SURR.STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR.STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR.STD.)***
14	CS30 D14-TERPHENYL***(SURR.STD.)***
15	C315 PHENOL
16	C325 BIS(2-CHLOROETHYL) ETHER
17	C330 2-CHLOROPHENOL
18	C335 1,3-DICHLOROBENZENE
19	C340 1,4-DICHLOROBENZENE
20	C345 BENZYL ALCOHOL
21	C350 1,2-DICHLOROBENZENE
22	C355 2-METHYLPHENOL
23	C360 2,2'-OXYBIS(1-CHLOROPROPANE)
24	C365 4-METHYLPHENOL
25	C370 N-NITROSO-DI-N-PROPYLAMINE
26	C375 HEXACHLOROETHANE
27	C410 NITROBENZENE
28	C415 ISOPHORONE
29	C420 2-NITROPHENOL
30	C425 2,4-DIMETHYLPHENOL
31	C435 BIS(2-CHLOROETHOXY) METHANE
32	C440 2,4-DICHLOROPHENOL
33	C445 1,2,4-TRICHLOROBENZENE
34	C450 NAPHTHALENE
35	C455 4-CHLOROANILINE
36	C460 HEXACHLOROBUTADIENE
37	C465 4-CHLORO-3-METHYLPHENOL
38	C470 2-METHYLNAPHTHALENE
39	C510 HEXACHLOROCYCLOPENTADIENE
40	C515 2,4,6-TRICHLOROPHENOL
41	C520 2,4,5-TRICHLOROPHENOL
42	C525 2-CHLORONAPHTHALENE
43	C530 2-NITROANILINE
44	C535 DIMETHYLPHTHALATE
45	C540 ACENAPHTHYLENE
46	C545 3-NITROANILINE
47	C550 ACENAPHTHENE

No	Name
48	C555 2,4-DINITROPHENOL
49	C560 4-NITROPHENOL
50	C565 DIBENZOFURAN

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	479	7:59	1	1.000	A BB	5368.	40.000 NG/UL	1.03
2	136	727	12:07	2	1.000	A BB	17597.	40.000 NG/UL	1.03
3	164	1084	18:04	3	1.000	A BB	9776.	40.000 NG/UL	1.03
4	188	1364	22:44	4	1.000	A BB	15090.	40.000 NG/UL	1.03
5	240	1828	30:28	5	1.000	A BB	13269.	40.000 NG/UL	1.03
6	264	2029	33:49	6	1.000	A BB	8639.	40.000 NG/UL	1.03
7	112	270	4:30	1	0.564	A BV	12519.	50.000 NG/UL	1.29
8	132	446	7:26	1	0.931	A BB	9260.	50.000 NG/UL	1.29
9	99	456	7:36	1	0.952	A BB	11436.	50.000 NG/UL	1.29
10	152	513	8:33	1	1.071	A BB	6127.	50.000 NG/UL	1.29
11	82	593	9:53	2	0.816	A BB	10506.	50.000 NG/UL	1.29
12	172	963	16:03	3	0.888	A BB	15427.	50.000 NG/UL	1.29
13	330	1242	20:42	3	1.146	A BB	1608.	50.000 NG/UL	1.29
14	244	1672	27:52	5	0.915	A BB	14723.	50.000 NG/UL	1.29
15	94	458	7:38	1	0.956	A BB	12553.	50.000 NG/UL	1.29
16	93	453	7:33	1	0.946	A BB	9615.	50.000 NG/UL	1.29
17	128	449	7:29	1	0.937	A BB	9301.	50.000 NG/UL	1.29
18	146	470	7:50	1	0.981	A BB	10139.	50.000 NG/UL	1.29
19	146	482	8:02	1	1.006	A BB	10297.	50.000 NG/UL	1.29
20	108	526	8:46	1	1.098	A BV	4671.	50.000 NG/UL	1.29
21	146	515	8:35	1	1.075	A BB	9371.	50.000 NG/UL	1.29
22	108	566	9:26	1	1.182	A BB	7472.	50.000 NG/UL	1.29
23	45	559	9:19	1	1.167	A BB	9548.	50.000 NG/UL	1.29
24	108	598	9:58	1	1.248	A BB	7731.	50.000 NG/UL	1.29
25	70	587	9:47	1	1.225	A BV	7072.	50.000 NG/UL	1.29
26	117	573	9:33	1	1.196	A BB	4264.	50.000 NG/UL	1.29
27	77	596	9:56	2	0.820	A BB	13728.	50.000 NG/UL	1.29
28	82	650	10:50	2	0.894	A BB	18304.	50.000 NG/UL	1.29
29	139	660	11:00	2	0.908	A BB	4509.	50.000 NG/UL	1.29
30	107	698	11:38	2	0.960	A BB	7926.	50.000 NG/UL	1.29
31	93	711	11:51	2	0.978	A BB	10128.	50.000 NG/UL	1.29
32	162	714	11:54	2	0.982	A BB	6628.	50.000 NG/UL	1.29
33	180	724	12:04	2	0.996	A BB	7119.	50.000 NG/UL	1.29
34	128	730	12:10	2	1.004	A BB	23353.	50.000 NG/UL	1.29
35	127	760	12:40	2	1.045	A BB	9842.	50.000 NG/UL	1.29
36	225	781	13:01	2	1.074	A BB	3262.	50.000 NG/UL	1.29
37	107	879	14:39	2	1.209	A BB	6749.	50.000 NG/UL	1.29
38	142	873	14:33	2	1.201	A BV	14810.	50.000 NG/UL	1.29
39	237	926	15:26	3	0.854	A BB	3527.	50.000 NG/UL	1.29
40	196	946	15:46	3	0.873	A BV	4520.	50.000 NG/UL	1.29
41	196	952	15:52	3	0.878	A VB	4318.	50.000 NG/UL	1.29
42	162	968	16:08	3	0.893	A BB	13919.	50.000 NG/UL	1.29
43	65	1007	16:47	3	0.929	A BB	5795.	50.000 NG/UL	1.29
44	163	1067	17:47	3	0.984	A BB	15516.	50.000 NG/UL	1.29
45	152	1050	17:30	3	0.969	A BB	22385.	50.000 NG/UL	1.29
46	138	1093	18:13	3	1.008	A BB	4363.	50.000 NG/UL	1.29
47	153	1090	18:10	3	1.006	A BB	12003.	50.000 NG/UL	1.29
48	184	1112	18:32	3	1.026	A BB	2153.	50.000 NG/UL	1.29
49	109	1151	19:11	3	1.062	A BB	2767.	50.000 NG/UL	1.29
50	168	1124	18:44	3	1.037	A BB	18814.	50.000 NG/UL	1.29

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:56	1.01	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	18:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	22:41	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	30:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	33:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:28	1.01	0.563	1.00	50.00	50.00	1.866	1.866	1.00
8	7:24	1.00	0.933	1.00	50.00	50.00	1.380	1.380	1.00
9	7:34	1.00	0.954	1.00	50.00	50.00	1.704	1.704	1.00
10	8:30	1.01	1.071	1.00	50.00	50.00	0.913	0.913	1.00
11	9:50	1.01	0.815	1.00	50.00	50.00	0.478	0.478	1.00
12	16:00	1.00	0.888	1.00	50.00	50.00	1.262	1.262	1.00
13	20:39	1.00	1.146	1.00	50.00	50.00	0.132	0.132	1.00
14	27:49	1.00	0.915	1.00	50.00	50.00	0.888	0.888	1.00
15	7:36	1.00	0.958	1.00	50.00	50.00	1.871	1.871	1.00
16	7:30	1.01	0.945	1.00	50.00	50.00	1.433	1.433	1.00
17	7:27	1.00	0.939	1.00	50.00	50.00	1.386	1.386	1.00
18	7:47	1.01	0.981	1.00	50.00	50.00	1.511	1.511	1.00
19	7:59	1.01	1.006	1.00	50.00	50.00	1.535	1.535	1.00
20	8:45	1.00	1.103	1.00	50.00	50.00	0.696	0.696	1.00
21	8:32	1.01	1.076	1.00	50.00	50.00	1.397	1.397	1.00
22	9:25	1.00	1.187	1.00	50.00	50.00	1.114	1.114	1.00
23	9:16	1.01	1.168	1.00	50.00	50.00	1.423	1.423	1.00
24	9:56	1.00	1.252	1.00	50.00	50.00	1.152	1.152	1.00
25	9:44	1.01	1.227	1.00	50.00	50.00	1.054	1.054	1.00
26	9:30	1.01	1.197	1.00	50.00	50.00	0.635	0.635	1.00
27	9:54	1.00	0.820	1.00	50.00	50.00	0.624	0.624	1.00
28	10:47	1.00	0.894	1.00	50.00	50.00	0.832	0.832	1.00
29	10:58	1.00	0.909	1.00	50.00	50.00	0.205	0.205	1.00
30	11:36	1.00	0.961	1.00	50.00	50.00	0.360	0.360	1.00
31	11:49	1.00	0.979	1.00	50.00	50.00	0.460	0.460	1.00
32	11:52	1.00	0.983	1.00	50.00	50.00	0.301	0.301	1.00
33	12:01	1.00	0.996	1.00	50.00	50.00	0.324	0.324	1.00
34	12:07	1.00	1.004	1.00	50.00	50.00	1.062	1.062	1.00
35	12:37	1.00	1.046	1.00	50.00	50.00	0.447	0.447	1.00
36	12:58	1.00	1.075	1.00	50.00	50.00	0.148	0.148	1.00
37	14:38	1.00	1.213	1.00	50.00	50.00	0.307	0.307	1.00
38	14:30	1.00	1.202	1.00	50.00	50.00	0.673	0.673	1.00
39	15:23	1.00	0.854	1.00	50.00	50.00	0.289	0.289	1.00
40	15:43	1.00	0.872	1.00	50.00	50.00	0.370	0.370	1.00
41	15:50	1.00	0.879	1.00	50.00	50.00	0.353	0.353	1.00
42	16:05	1.00	0.893	1.00	50.00	50.00	1.139	1.139	1.00
43	16:45	1.00	0.930	1.00	50.00	50.00	0.474	0.474	1.00
44	17:44	1.00	0.984	1.00	50.00	50.00	1.270	1.270	1.00
45	17:27	1.00	0.969	1.00	50.00	50.00	1.832	1.832	1.00
46	18:11	1.00	1.009	1.00	50.00	50.00	0.357	0.357	1.00
47	18:07	1.00	1.006	1.00	50.00	50.00	0.982	0.982	1.00
48	18:30	1.00	1.027	1.00	50.00	50.00	0.176	0.176	1.00
49	19:11	1.00	1.065	1.00	50.00	50.00	0.226	0.226	1.00
50	18:41	1.00	1.037	1.00	50.00	50.00	1.540	1.540	1.00

Quantitation Report File: 50BY1120

Data: 50BY1120.TI
11/20/93 15:51:00
Sample: SSTD050
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.000
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	C570 2,4-DINITROTOLUENE
52	C543 2,6-DINITROTOLUENE
53	C580 DIETHYL PHTHALATE
54	C585 4-CHLOROPHENYL PHENYLETHER
55	C590 FLUORENE
56	C595 4-NITROANILINE
57	C610 4,6-DINITRO-2-METHYLPHENOL
58	C615 N-NITROSODIPHENYLAMINE
59	C625 4-BROMOPHENYL PHENYLETHER
60	C630 HEXACHLOROBENZENE
61	C635 PENTACHLOROPHENOL
62	C640 PHENANTHRENE
63	C645 ANTHRACENE
64	C646 CARBAZOLE
65	C650 DI-N-BUTYL PHTHALATE
66	C655 FLUORANTHENE
67	C715 PYRENE
68	C720 BUTYL BENZYL PHTHALATE
69	C725 3,3'-DICHLOROBENZIDINE
70	C730 BENZO(A) ANTHRACENE
71	C745 BIS(2-ETHYLHEXYL) PHTHALATE
72	C740 CHRYSENE
73	C760 DI-N-OCTYL PHTHALATE
74	C765 BENZO(B) FLUORANTHENE
75	C770 BENZO(K) FLUORANTHENE
76	C775 BENZO(A) PYRENE
77	C780 INDENO(1,2,3-CD) PYRENE
78	C785 DIBENZ(A,H) ANTHRACENE
79	C790 BENZO(GHI) PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	1145	19:05	3	1.056	A BB	4752.	50.000 NG/UL	1.29
52	165	1072	17:52	3	0.989	A BB	3788.	50.000 NG/UL	1.29
53	149	1213	20:13	3	1.119	A BB	16109.	50.000 NG/UL	1.29
54	204	1205	20:05	3	1.112	A BB	6818.	50.000 NG/UL	1.29
55	166	1191	19:51	3	1.099	A BB	15439.	50.000 NG/UL	1.29
56	138	1214	20:14	3	1.120	A BB	4494.	50.000 NG/UL	1.29
57	198	1223	20:23	4	0.897	A BB	2798.	50.000 NG/UL	1.29
58	169	1233	20:33	4	0.904	A BB	10090.	50.000 NG/UL	1.29
59	248	1295	21:35	4	0.949	A BB	3598.	50.000 NG/UL	1.29
60	284	1311	21:51	4	0.961	A BB	3753.	50.000 NG/UL	1.29
61	266	1351	22:31	4	0.990	A BB	2732.	50.000 NG/UL	1.29
62	178	1368	22:48	4	1.003	A BV	22360.	50.000 NG/UL	1.29
63	178	1376	22:56	4	1.009	A VB	22983.	50.000 NG/UL	1.29
64	167	1417	23:37	4	1.039	A BB	21483.	50.000 NG/UL	1.29

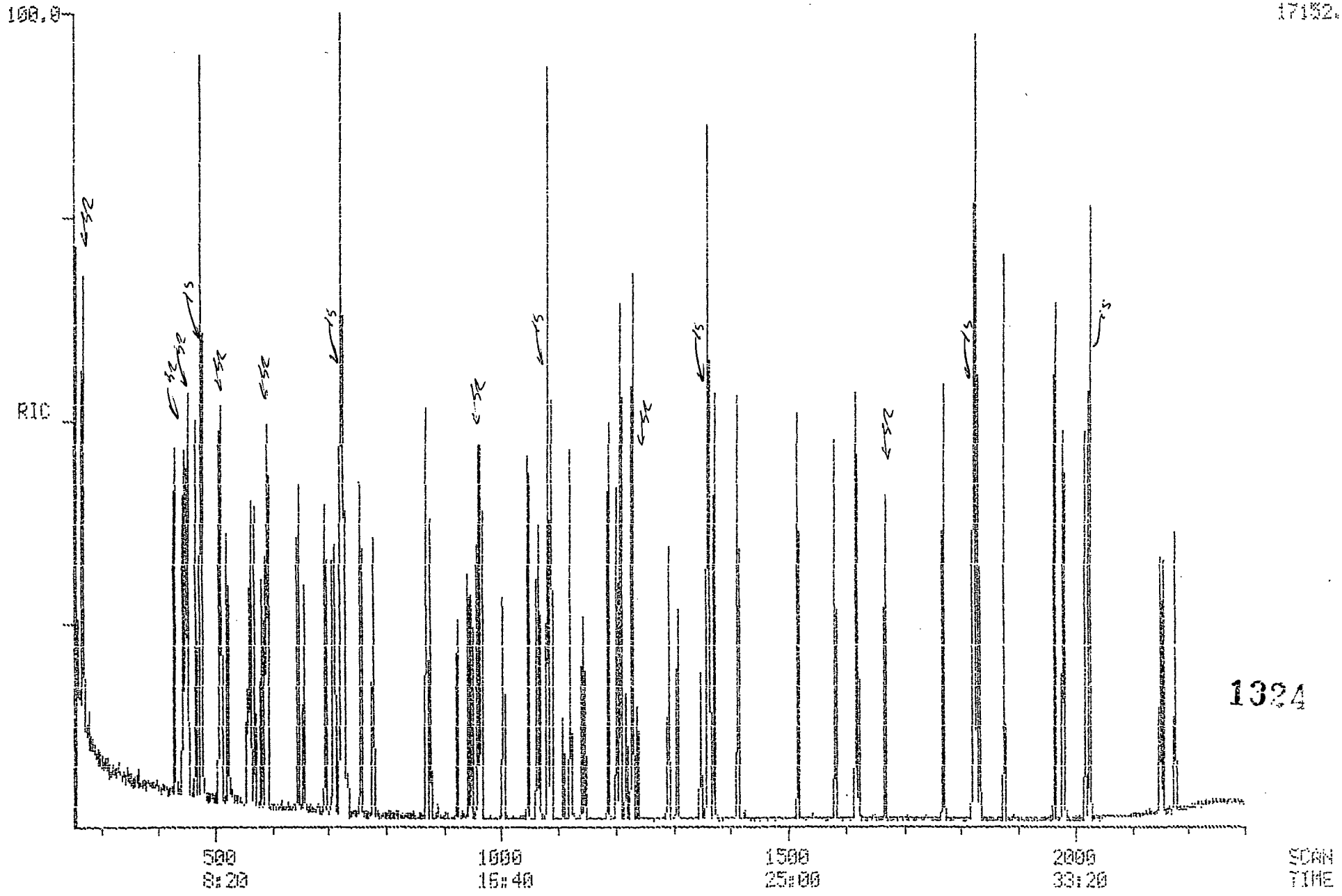
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
65	149	1521	25:21	4	1.115	A BB	28581.	50.000	NG/UL	1.29
66	202	1586	26:26	4	1.163	A BB	23196.	50.000	NG/UL	1.29
67	202	1622	27:02	5	0.887	A BB	23007.	50.000	NG/UL	1.29
68	149	1773	29:33	5	0.970	A BB	12847.	50.000	NG/ML	1.29
69	252	1835	30:35	5	1.004	A BB	6683.	50.000	NG/UL	1.29
70	228	1825	30:25	5	0.998	A BV	21137.	50.000	NG/UL	1.29
71	149	1878	31:18	5	1.027	A BB	17938.	50.000	NG/UL	1.29
72	228	1831	30:31	5	1.002	A VB	17895.	50.000	NG/UL	1.29
73	149	1967	32:47	6	0.969	A BB	31089.	50.000	NG/UL	1.29
74	252	1981	33:01	6	0.976	A BV	16230.	50.000	NG/UL	1.29
75	252	1985	33:05	6	0.978	A VB	13477.	50.000	NG/UL	1.29
76	252	2021	33:41	6	0.996	A BB	12057.	50.000	NG/UL	1.29
77	276	2154	35:54	6	1.062	A BV	8078.	50.000	NG/UL	1.29
78	278	2159	35:59	6	1.064	A BB	7665.	50.000	NG/UL	1.29
79	276	2180	36:20	6	1.074	A BB	7864.	50.000	NG/UL	1.29

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	19:03	1.00	1.057	1.00	50.00	50.00	0.389	0.389	1.00
52	17:49	1.00	0.989	1.00	50.00	50.00	0.310	0.310	1.00
53	20:11	1.00	1.120	1.00	50.00	50.00	1.318	1.318	1.00
54	20:02	1.00	1.112	1.00	50.00	50.00	0.558	0.558	1.00
55	19:48	1.00	1.099	1.00	50.00	50.00	1.263	1.263	1.00
56	20:14	1.00	1.123	1.00	50.00	50.00	0.368	0.368	1.00
57	20:21	1.00	0.897	1.00	50.00	50.00	0.148	0.148	1.00
58	20:30	1.00	0.904	1.00	50.00	50.00	0.535	0.535	1.00
59	21:32	1.00	0.949	1.00	50.00	50.00	0.191	0.191	1.00
60	21:48	1.00	0.961	1.00	50.00	50.00	0.199	0.199	1.00
61	22:29	1.00	0.991	1.00	50.00	50.00	0.145	0.145	1.00
62	22:45	1.00	1.003	1.00	50.00	50.00	1.185	1.185	1.00
63	22:53	1.00	1.009	1.00	50.00	50.00	1.218	1.218	1.00
64	23:34	1.00	1.039	1.00	50.00	50.00	1.139	1.139	1.00
65	25:18	1.00	1.115	1.00	50.00	50.00	1.515	1.515	1.00
66	26:24	1.00	1.164	1.00	50.00	50.00	1.230	1.230	1.00
67	26:59	1.00	0.887	1.00	50.00	50.00	1.387	1.387	1.00
68	29:30	1.00	0.970	1.00	50.00	50.00	0.775	0.775	1.00
69	30:33	1.00	1.004	1.00	50.00	50.00	0.403	0.403	1.00
70	30:23	1.00	0.999	1.00	50.00	50.00	1.274	1.274	1.00
71	31:15	1.00	1.027	1.00	50.00	50.00	1.081	1.081	1.00
72	30:29	1.00	1.002	1.00	50.00	50.00	1.079	1.079	1.00
73	32:44	1.00	0.969	1.00	50.00	50.00	2.879	2.879	1.00
74	33:00	1.00	0.977	1.00	50.00	50.00	1.503	1.503	1.00
75	33:03	1.00	0.978	1.00	50.00	50.00	1.248	1.248	1.00
76	33:40	1.00	0.997	1.00	50.00	50.00	1.117	1.117	1.00
77	35:53	1.00	1.062	1.00	50.00	50.00	0.748	0.748	1.00
78	35:57	1.00	1.064	1.00	50.00	50.00	0.710	0.710	1.00
79	36:19	1.00	1.075	1.00	50.00	50.00	0.728	0.728	1.00

RIC
11/20/93 13:33:00
SAMPLE: SSTD020
CONDS.: INST. 025 (40F2TO180@9TOS10@10HS)
RANGE: G 1,2300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 20BY1120 #1
CALI: 20BY1120 #3

SCANS 250 TO 2300



1324

Quantitation Report File: 20BY1120

Data: 20BY1120.TI
11/20/93 13:33:00
Sample: SSTD020
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.001
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT. STD.)***
2	CI40 D8-NAPHTHALENE***(INT. STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT. STD.)****
5	CI70 D12-CHRYSENE***(INT. STD.)***
6	CI75 D12-PERYLENE***(INT. STD.)***
7	CS50 2-FLUOROPHENOL***(SURR. STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR. STD)***
9	CS45 D6-PHENOL***(SURR. STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR. STD)***
11	CS20 D5-NITROBENZENE***(SURR. STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR. STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR. STD.)***
14	CS30 D14-TERPHENYL***(SURR. STD.)***
15	C315 PHENOL
16	C325 BIS(2-CHLOROETHYL) ETHER
17	C330 2-CHLOROPHENOL
18	C335 1,3-DICHLOROBENZENE
19	C340 1,4-DICHLOROBENZENE
20	C345 BENZYL ALCOHOL
21	C350 1,2-DICHLOROBENZENE
22	C355 2-METHYLPHENOL
23	C360 2,2'-OXYBIS(1-CHLOROPROPANE)
24	C365 4-METHYLPHENOL
25	C370 N-NITROSO-DI-N-PROPYLAMINE
26	C375 HEXACHLOROETHANE
27	C410 NITROBENZENE
28	C415 ISOPHORONE
29	C420 2-NITROPHENOL
30	C425 2,4-DIMETHYLPHENOL
31	C435 BIS(2-CHLOROETHOXY) METHANE
32	C440 2,4-DICHLOROPHENOL
33	C445 1,2,4-TRICHLOROBENZENE
34	C450 NAPHTHALENE
35	C455 4-CHLOROANILINE
36	C460 HEXACHLOROBUTADIENE
37	C465 4-CHLORO-3-METHYLPHENOL
38	C470 2-METHYLNAPHTHALENE
39	C510 HEXACHLOROCYCLOPENTADIENE
40	C515 2,4,6-TRICHLOROPHENOL
41	C525 2-CHLORONAPHTHALENE
42	C535 DIMETHYLPHTHALATE
43	C540 ACENAPHTHYLENE
44	C550 ACENAPHTHENE
45	C565 DIBENZOFURAN
46	C570 2,4-DINITROTOLUENE
47	C543 2,6-DINITROTOLUENE

No	Name
48	C580 DIETHYL PHTHALATE
49	C585 4-CHLOROPHENYL PHENYLETHER
50	C590 FLUORENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	476	7:56	1	1.000	A BB	6438.	40.000 NG/UL	2.60
2	136	724	12:04	2	1.000	A BB	20290.	40.000 NG/UL	2.60
3	164	1082	18:02	3	1.000	A BB	11035.	40.000 NG/UL	2.60
4	188	1361	22:41	4	1.000	A BB	16311.	40.000 NG/UL	2.60
5	240	1825	30:25	5	1.000	A BB	14416.	40.000 NG/UL	2.60
6	264	2027	33:47	6	1.000	A BB	13456.	40.000 NG/UL	2.60
7	112	267	4:27	1	0.561	A BB	5946.	20.000 NG/UL	1.30
8	132	443	7:23	1	0.931	A BB	4347.	20.000 NG/UL	1.30
9	99	452	7:32	1	0.950	A BB	5474.	20.000 NG/UL	1.30
10	152	510	8:30	1	1.071	A BB	2993.	20.000 NG/UL	1.30
11	82	589	9:49	2	0.814	A BB	5060.	20.000 NG/UL	1.30
12	172	960	16:00	3	0.887	A BB	7098.	20.000 NG/UL	1.30
13	330	1239	20:39	3	1.145	A BB	681.	20.000 NG/UL	1.30
14	244	1669	27:49	5	0.915	A BB	6614.	20.000 NG/UL	1.30
15	94	454	7:34	1	0.954	A BB	5794.	20.000 NG/UL	1.30
16	93	449	7:29	1	0.943	A BB	4679.	20.000 NG/UL	1.30
17	128	446	7:26	1	0.937	A BB	4472.	20.000 NG/UL	1.30
18	146	467	7:47	1	0.981	A BB	4849.	20.000 NG/UL	1.30
19	146	479	7:59	1	1.006	A BB	5005.	20.000 NG/UL	1.30
20	108	523	8:43	1	1.099	A BV	2305.	20.000 NG/UL	1.30
21	146	512	8:32	1	1.076	A BB	4429.	20.000 NG/UL	1.30
22	108	563	9:23	1	1.183	A BB	3610.	20.000 NG/UL	1.30
23	45	556	9:16	1	1.168	A BB	4678.	20.000 NG/UL	1.30
24	108	595	9:55	1	1.250	A BB	3600.	20.000 NG/UL	1.30
25	70	583	9:43	1	1.225	A BB	3421.	20.000 NG/UL	1.30
26	117	571	9:31	1	1.200	A BB	2056.	20.000 NG/UL	1.30
27	77	593	9:53	2	0.819	A BB	6661.	20.000 NG/UL	1.30
28	82	647	10:47	2	0.894	A BB	8754.	20.000 NG/UL	1.30
29	139	658	10:58	2	0.909	A BB	2132.	20.000 NG/UL	1.30
30	107	695	11:35	2	0.960	A BB	3672.	20.000 NG/UL	1.30
31	93	708	11:48	2	0.978	A BB	4877.	20.000 NG/UL	1.30
32	162	711	11:51	2	0.982	A BB	3141.	20.000 NG/UL	1.30
33	180	721	12:01	2	0.996	A BB	3417.	20.000 NG/UL	1.30
34	128	728	12:08	2	1.006	A BB	11082.	20.000 NG/UL	1.30
35	127	757	12:37	2	1.046	A BB	4595.	20.000 NG/UL	1.30
36	225	779	12:59	2	1.076	A BB	1590.	20.000 NG/UL	1.30
37	107	877	14:37	2	1.211	A BB	3129.	20.000 NG/UL	1.30
38	142	870	14:30	2	1.202	A BB	6743.	20.000 NG/UL	1.30
39	237	924	15:24	3	0.854	A BB	1679.	20.000 NG/UL	1.30
40	196	943	15:43	3	0.872	A BV	2110.	20.000 NG/UL	1.30
41	162	965	16:05	3	0.892	A BB	6470.	20.000 NG/UL	1.30
42	163	1064	17:44	3	0.983	A BB	7014.	20.000 NG/UL	1.30
43	152	1047	17:27	3	0.968	A BB	10311.	20.000 NG/UL	1.30
44	153	1087	18:07	3	1.005	A BB	5556.	20.000 NG/UL	1.30
45	168	1121	18:41	3	1.036	A BB	8556.	20.000 NG/UL	1.30
46	165	1142	19:02	3	1.055	A BB	2018.	20.000 NG/UL	1.30
47	165	1068	17:48	3	0.987	A BB	1658.	20.000 NG/UL	1.30
48	149	1209	20:09	3	1.117	A BB	7092.	20.000 NG/UL	1.30
49	204	1203	20:03	3	1.112	A BB	3150.	20.000 NG/UL	1.30
50	166	1188	19:48	3	1.098	A BB	6828.	20.000 NG/UL	1.30

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	18:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	22:41	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	30:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	33:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:28	1.00	0.563	1.00	20.00	20.00	1.847	1.847	1.00
8	7:24	1.00	0.933	1.00	20.00	20.00	1.350	1.350	1.00
9	7:34	1.00	0.954	1.00	20.00	20.00	1.701	1.701	1.00
10	8:30	1.00	1.071	1.00	20.00	20.00	0.930	0.930	1.00
11	9:50	1.00	0.815	1.00	20.00	20.00	0.499	0.499	1.00
12	16:00	1.00	0.888	1.00	20.00	20.00	1.286	1.286	1.00
13	20:39	1.00	1.146	1.00	20.00	20.00	0.123	0.123	1.00
14	27:49	1.00	0.915	1.00	20.00	20.00	0.918	0.918	1.00
15	7:36	1.00	0.958	1.00	20.00	20.00	1.800	1.800	1.00
16	7:30	1.00	0.945	1.00	20.00	20.00	1.454	1.454	1.00
17	7:27	1.00	0.939	1.00	20.00	20.00	1.389	1.389	1.00
18	7:47	1.00	0.981	1.00	20.00	20.00	1.506	1.506	1.00
19	7:59	1.00	1.006	1.00	20.00	20.00	1.555	1.555	1.00
20	8:45	1.00	1.103	1.00	20.00	20.00	0.716	0.716	1.00
21	8:32	1.00	1.076	1.00	20.00	20.00	1.376	1.376	1.00
22	9:25	1.00	1.187	1.00	20.00	20.00	1.121	1.121	1.00
23	9:16	1.00	1.168	1.00	20.00	20.00	1.453	1.453	1.00
24	9:56	1.00	1.252	1.00	20.00	20.00	1.118	1.118	1.00
25	9:44	1.00	1.227	1.00	20.00	20.00	1.063	1.063	1.00
26	9:30	1.00	1.197	1.00	20.00	20.00	0.639	0.639	1.00
27	9:54	1.00	0.820	1.00	20.00	20.00	0.657	0.657	1.00
28	10:47	1.00	0.894	1.00	20.00	20.00	0.863	0.863	1.00
29	10:58	1.00	0.909	1.00	20.00	20.00	0.210	0.210	1.00
30	11:36	1.00	0.961	1.00	20.00	20.00	0.362	0.362	1.00
31	11:49	1.00	0.979	1.00	20.00	20.00	0.481	0.481	1.00
32	11:52	1.00	0.983	1.00	20.00	20.00	0.310	0.310	1.00
33	12:01	1.00	0.996	1.00	20.00	20.00	0.337	0.337	1.00
34	12:07	1.00	1.004	1.00	20.00	20.00	1.092	1.092	1.00
35	12:37	1.00	1.046	1.00	20.00	20.00	0.453	0.453	1.00
36	12:58	1.00	1.075	1.00	20.00	20.00	0.157	0.157	1.00
37	14:38	1.00	1.213	1.00	20.00	20.00	0.308	0.308	1.00
38	14:30	1.00	1.202	1.00	20.00	20.00	0.665	0.665	1.00
39	15:23	1.00	0.854	1.00	20.00	20.00	0.304	0.304	1.00
40	15:43	1.00	0.872	1.00	20.00	20.00	0.382	0.382	1.00
41	16:05	1.00	0.893	1.00	20.00	20.00	1.173	1.173	1.00
42	17:44	1.00	0.984	1.00	20.00	20.00	1.271	1.271	1.00
43	17:27	1.00	0.969	1.00	20.00	20.00	1.869	1.869	1.00
44	18:07	1.00	1.006	1.00	20.00	20.00	1.007	1.007	1.00
45	18:41	1.00	1.037	1.00	20.00	20.00	1.551	1.551	1.00
46	19:03	1.00	1.057	1.00	20.00	20.00	0.366	0.366	1.00
47	17:49	1.00	0.989	1.00	20.00	20.00	0.300	0.300	1.00
48	20:11	1.00	1.120	1.00	20.00	20.00	1.285	1.285	1.00
49	20:02	1.00	1.112	1.00	20.00	20.00	0.571	0.571	1.00
50	19:48	1.00	1.099	1.00	20.00	20.00	1.238	1.238	1.00

Quantitation Report File: 20BY1120

Data: 20BY1120.TI
11/20/93 13:33:00
Sample: SSTD020
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.001
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	C640 PHENANTHRENE
55	C645 ANTHRACENE
56	C646 CARBAZOLE
57	C650 DI-N-BUTYL PHTHALATE
58	C655 FLUORANTHENE
59	C715 PYRENE
60	C720 BUTYL BENZYL PHTHALATE
61	C725 3,3'-DICHLOROBENZIDINE
62	C730 BENZO(A) ANTHRACENE
63	C745 BIS(2-ETHYLHEXYL) PHTHALATE
64	C740 CHRYSENE
65	C760 DI-N-OCTYL PHTHALATE
66	C765 BENZO(B) FLUORANTHENE
67	C770 BENZO(K) FLUORANTHENE
68	C775 BENZO(A) PYRENE
69	C780 INDENO(1,2,3-CD) PYRENE
70	C785 DIBENZ(A,H) ANTHRACENE
71	C790 BENZO(GHI) PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	169	1230	20:30	4	0.904	A BB	4489.	20.000 NG/UL	1.30
52	248	1293	21:33	4	0.950	A BB	1542.	20.000 NG/UL	1.30
53	284	1308	21:48	4	0.961	A BB	1599.	20.000 NG/UL	1.30
54	178	1365	22:45	4	1.003	A BB	9892.	20.000 NG/UL	1.30
55	178	1373	22:53	4	1.009	A BB	9992.	20.000 NG/UL	1.30
56	167	1414	23:34	4	1.039	A BB	9826.	20.000 NG/UL	1.30
57	149	1519	25:19	4	1.116	A BB	12441.	20.000 NG/UL	1.30
58	202	1583	26:23	4	1.163	A BB	10173.	20.000 NG/UL	1.30
59	202	1619	26:59	5	0.887	A BB	10288.	20.000 NG/UL	1.30
60	149	1770	29:30	5	0.970	A BB	5570.	20.000 NG/ML	1.30
61	252	1833	30:33	5	1.004	A BB	2724.	20.000 NG/UL	1.30
62	228	1822	30:22	5	0.998	A BV	9709.	20.000 NG/UL	1.30
63	149	1876	31:16	5	1.028	A BB	7456.	20.000 NG/UL	1.30
64	228	1829	30:29	5	1.002	A VB	7691.	20.000 NG/UL	1.30
65	149	1965	32:45	6	0.969	A BB	13132.	20.000 NG/UL	1.30
66	252	1979	32:59	6	0.976	M XX	8139.	20.000 NG/UL	1.30
67	252	1982	33:02	6	0.978	M XX	8677.	20.000 NG/UL	1.30
68	252	2019	33:39	6	0.996	A BB	7279.	20.000 NG/UL	1.30
69	276	2152	35:52	6	1.062	A BV	5286.	20.000 NG/UL	1.30
70	278	2157	35:57	6	1.064	A BB	4928.	20.000 NG/UL	1.30
71	276	2178	36:18	6	1.074	A BB	4849.	20.000 NG/UL	1.30

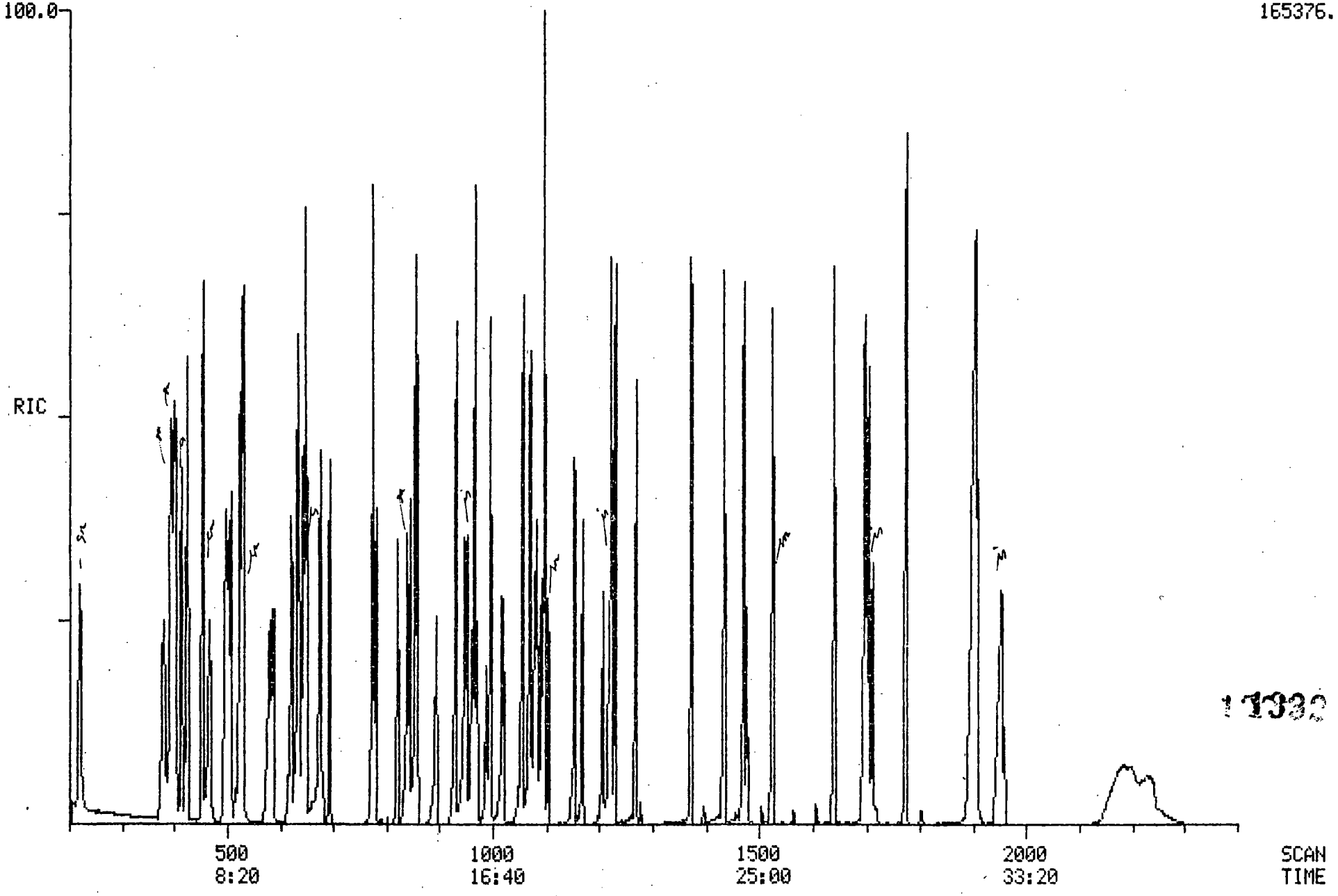
MBW 11/29/93

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:30	1.00	0.904	1.00	20.00	20.00	0.550	0.550	1.00
52	21:32	1.00	0.949	1.00	20.00	20.00	0.189	0.189	1.00
53	21:48	1.00	0.961	1.00	20.00	20.00	0.196	0.196	1.00
54	22:45	1.00	1.003	1.00	20.00	20.00	1.213	1.213	1.00
55	22:53	1.00	1.009	1.00	20.00	20.00	1.225	1.225	1.00
56	23:34	1.00	1.039	1.00	20.00	20.00	1.205	1.205	1.00
57	25:18	1.00	1.115	1.00	20.00	20.00	1.525	1.525	1.00
58	26:24	1.00	1.164	1.00	20.00	20.00	1.247	1.247	1.00
59	26:59	1.00	0.887	1.00	20.00	20.00	1.427	1.427	1.00
60	29:30	1.00	0.970	1.00	20.00	20.00	0.773	0.773	1.00
61	30:33	1.00	1.004	1.00	20.00	20.00	0.378	0.378	1.00
62	30:23	1.00	0.999	1.00	20.00	20.00	1.347	1.347	1.00
63	31:15	1.00	1.027	1.00	20.00	20.00	1.034	1.034	1.00
64	30:29	1.00	1.002	1.00	20.00	20.00	1.067	1.067	1.00
65	32:44	1.00	0.969	1.00	20.00	20.00	1.952	1.952	1.00
66	33:00	1.00	0.977	1.00	20.00	20.00	1.210	1.210	1.00
67	33:03	1.00	0.978	1.00	20.00	20.00	1.290	1.290	1.00
68	33:40	1.00	0.997	1.00	20.00	20.00	1.082	1.082	1.00
69	35:53	1.00	1.062	1.00	20.00	20.00	0.786	0.786	1.00
70	35:57	1.00	1.064	1.00	20.00	20.00	0.732	0.732	1.00
71	36:19	1.00	1.075	1.00	20.00	20.00	0.721	0.721	1.00

RIC
11/30/93 12:30:00
SAMPLE: SSTD160
CONDS.: INST. 001
RANGE: G 1,2400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 160BA1130 #1
CALI: 160BA1130 #3

SCANS 200 TO 2400



Quantitation Report File: 160BA1130

Data: 160BA1130.TI
11/30/93 12:30:00
Sample: SSTD160
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT. STD.)***
2	CI40 D8-NAPHTHALENE***(INT. STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT. STD.)***
5	CI70 D12-CHRYSENE***(INT. STD.)***
6	CI75 D12-PERYLENE***(INT. STD.)***
7	CS50 2-FLUOROPHENOL***(SURR. STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR. STD.)***
9	CS45 D5-PHENOL***(SURR. STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR. STD)***
11	CS20 D5-NITROBENZENE***(SURR. STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR. STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR. STD.)***
14	CS30 D14-TERPHENYL***(SURR. STD.)***
15	C315 PHENOL
16	C325 BIS(2-CHLOROETHYL) ETHER
17	C330 2-CHLOROPHENOL
18	C335 1,3-DICHLOROBENZENE
19	C340 1,4-DICHLOROBENZENE
20	C345 BENZYL ALCOHOL
21	C350 1,2-DICHLOROBENZENE
22	C355 2-METHYLPHENOL
23	C360 2,2'-OXYBIS(1-CHLOROPROPANE)
24	C365 4-METHYLPHENOL
25	C370 N-NITROSO-DI-N-PROPYLAMINE
26	C375 HEXACHLOROETHANE
27	C410 NITROBENZENE
28	C415 ISOPHRONE
29	C420 2-NITROPHENOL
30	C425 2,4-DIMETHYLPHENOL
31	C430 BENZOIC ACID
32	C435 BIS(2-CHLOROETHOXY) METHANE
33	C440 2,4-DICHLOROPHENOL
34	C445 1,2,4-TRICHLOROBENZENE
35	C450 NAPHTHALENE
36	C455 4-CHLOROANILINE
37	C460 HEXACHLOROBUTADIENE
38	C465 4-CHLORO-3-METHYLPHENOL
39	C470 2-METHYLNAPHTHALENE
40	C510 HEXACHLOROCYCLOPENTADIENE
41	C515 2,4,6-TRICHLOROPHENOL
42	C520 2,4,5-TRICHLOROPHENOL
43	C525 2-CHLORONAPHTHALENE
44	C530 2-NITROANILINE
45	C535 DIMETHYLPHTHALATE
46	C540 ACENAPHTYLENE
47	C545 3-NITROANILINE

No	Name
48	C550 ACENAPHTHENE
49	C555 2,4-DINITROPHENOL
50	C560 4-NITROPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	422	7:02	1	1.000	A BB	12302.	40.000	NG/UL	0.33
2	136	646	10:46	2	1.000	A BB	45651.	40.000	NG/UL	0.33
3	164	959	15:59	3	1.000	A BB	26079.	40.000	NG/UL	0.33
4	188	1218	20:18	4	1.000	A BB	38610.	40.000	NG/UL	0.33
5	240	1701	28:21	5	1.000	A VB	35803.	40.000	NG/UL	0.33
6	264	1959	32:39	6	1.000	A BB	36483.	40.000	NG/UL	0.33
7	112	220	3:40	1	0.521	A BB	77034.	160.000	NG/UL	1.32
8	132	393	6:33	1	0.931	A BB	65987.	160.000	NG/UL	1.32
9	99	403	6:43	1	0.955	A BB	93537.	160.000	NG/UL	1.32
10	152	454	7:34	1	1.076	A BB	41816.	160.000	NG/UL	1.32
11	82	528	8:48	2	0.817	A BB	68852.	160.000	NG/UL	1.32
12	172	854	14:14	3	0.891	A BB	126901.	160.000	NG/UL	1.32
13	330	1104	18:24	3	1.151	A BB	20449.	160.000	NG/UL	1.32
14	244	1526	25:26	5	0.897	A BB	133310.	160.000	NG/UL	1.32
15	94	405	6:45	1	0.960	A BB	81014.	160.000	NG/UL	1.32
16	93	400	6:40	1	0.948	A BB	80244.	160.000	NG/UL	1.32
17	128	396	6:36	1	0.938	A BB	63886.	160.000	NG/UL	1.32
18	146	414	6:54	1	0.981	A BV	71742.	160.000	NG/UL	1.32
19	146	425	7:05	1	1.007	A VB	73068.	160.000	NG/UL	1.32
20	108	468	7:48	1	1.109	A BB	42233.	160.000	NG/UL	1.32
21	146	456	7:36	1	1.081	A BB	69663.	160.000	NG/UL	1.32
22	108	504	8:24	1	1.194	A BB	63212.	160.000	NG/UL	1.32
23	45	497	8:17	1	1.178	A BB	137878.	160.000	NG/UL	1.32
24	108	533	8:53	1	1.263	A BB	65867.	160.000	NG/UL	1.32
25	70	525	8:45	1	1.244	A BB	67297.	160.000	NG/UL	1.32
26	117	508	8:28	1	1.204	A BB	27165.	160.000	NG/UL	1.32
27	77	531	8:51	2	0.822	A BB	94656.	160.000	NG/UL	1.32
28	82	581	9:41	2	0.899	A BB	138519.	160.000	NG/UL	1.32
29	139	587	9:47	2	0.909	A BB	37255.	160.000	NG/UL	1.32
30	107	622	10:22	2	0.963	A BB	56603.	160.000	NG/UL	1.32
31	122	681	11:21	2	1.054	M XX	24295.	160.000	NG/UL	1.32
32	93	634	10:34	2	0.981	A BB	100169.	160.000	NG/UL	1.32
33	162	636	10:36	2	0.985	A BB	49185.	160.000	NG/UL	1.32
34	180	643	10:43	2	0.995	A BB	55199.	160.000	NG/UL	1.32
35	128	650	10:50	2	1.006	A BB	180140.	160.000	NG/UL	1.32
36	127	676	11:16	2	1.046	A BB	87872.	160.000	NG/UL	1.32
37	225	693	11:33	2	1.073	A BB	28844.	160.000	NG/UL	1.32
38	107	780	13:00	2	1.207	A BB	52611.	160.000	NG/UL	1.32
39	142	775	12:55	2	1.200	A BV	145255.	160.000	NG/UL	1.32
40	237	820	13:40	3	0.855	A BB	36041.	160.000	NG/UL	1.32
41	196	839	13:59	3	0.875	A BV	45414.	160.000	NG/UL	1.32
42	196	844	14:04	3	0.880	A VB	30165.	160.000	NG/UL	1.32
43	162	859	14:19	3	0.896	A BB	116914.	160.000	NG/UL	1.32
44	65	894	14:54	3	0.932	A BB	40850.	160.000	NG/UL	1.32
45	163	947	15:47	3	0.987	A BB	129575.	160.000	NG/UL	1.32
46	152	930	15:30	3	0.970	A BB	190347.	160.000	NG/UL	1.32
47	138	970	16:10	3	1.011	A VB	32240.	160.000	NG/UL	1.32
48	153	966	16:06	3	1.007	A BB	110586.	160.000	NG/UL	1.32
49	184	987	16:27	3	1.029	A BB	19194.	160.000	NG/UL	1.32
50	109	1021	17:01	3	1.065	A BB	9885.	160.000	NG/UL	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	15:57	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	20:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	28:18	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	32:36	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:37	1.01	0.517	1.01	160.00	160.00	1.565	1.565	1.00
8	6:29	1.01	0.926	1.01	160.00	160.00	1.341	1.341	1.00
9	6:37	1.02	0.945	1.01	160.00	160.00	1.901	1.901	1.00
10	7:31	1.01	1.074	1.00	160.00	160.00	0.850	0.850	1.00
11	8:44	1.01	0.815	1.00	160.00	160.00	0.377	0.377	1.00
12	14:11	1.00	0.889	1.00	160.00	160.00	1.217	1.217	1.00
13	18:20	1.00	1.149	1.00	160.00	160.00	0.196	0.196	1.00
14	25:23	1.00	0.897	1.00	160.00	160.00	0.931	0.931	1.00
15	6:40	1.01	0.952	1.01	160.00	160.00	1.646	1.646	1.00
16	6:36	1.01	0.943	1.01	160.00	160.00	1.631	1.631	1.00
17	6:32	1.01	0.933	1.01	160.00	160.00	1.298	1.298	1.00
18	6:52	1.00	0.981	1.00	160.00	160.00	1.458	1.458	1.00
19	7:02	1.01	1.005	1.00	160.00	160.00	1.485	1.485	1.00
20	7:43	1.01	1.102	1.01	160.00	160.00	0.858	0.858	1.00
21	7:33	1.01	1.079	1.00	160.00	160.00	1.416	1.416	1.00
22	8:19	1.01	1.188	1.01	160.00	160.00	1.285	1.285	1.00
23	8:14	1.01	1.176	1.00	160.00	160.00	2.802	2.802	1.00
24	8:48	1.01	1.257	1.00	160.00	160.00	1.339	1.339	1.00
25	8:38	1.01	1.233	1.01	160.00	160.00	1.368	1.368	1.00
26	8:26	1.00	1.205	1.00	160.00	160.00	0.552	0.552	1.00
27	8:47	1.01	0.820	1.00	160.00	160.00	0.518	0.518	1.00
28	9:34	1.01	0.893	1.01	160.00	160.00	0.759	0.759	1.00
29	9:44	1.01	0.908	1.00	160.00	160.00	0.204	0.204	1.00
30	10:18	1.01	0.961	1.00	160.00	160.00	0.310	0.310	1.00
31	11:03	1.03	1.031	1.02	160.00	160.00	0.133	0.133	1.00
32	10:30	1.01	0.980	1.00	160.00	160.00	0.549	0.549	1.00
33	10:32	1.01	0.983	1.00	160.00	160.00	0.269	0.269	1.00
34	10:41	1.00	0.997	1.00	160.00	160.00	0.302	0.302	1.00
35	10:47	1.00	1.006	1.00	160.00	160.00	0.987	0.987	1.00
36	11:12	1.01	1.045	1.00	160.00	160.00	0.481	0.481	1.00
37	11:31	1.00	1.075	1.00	160.00	160.00	0.158	0.158	1.00
38	12:57	1.00	1.208	1.00	160.00	160.00	0.288	0.288	1.00
39	12:52	1.00	1.201	1.00	160.00	160.00	0.795	0.795	1.00
40	13:39	1.00	0.856	1.00	160.00	160.00	0.345	0.345	1.00
41	13:56	1.00	0.874	1.00	160.00	160.00	0.435	0.435	1.00
42	14:01	1.00	0.879	1.00	160.00	160.00	0.289	0.289	1.00
43	14:16	1.00	0.894	1.00	160.00	160.00	1.121	1.121	1.00
44	14:50	1.00	0.930	1.00	160.00	160.00	0.392	0.392	1.00
45	15:43	1.00	0.985	1.00	160.00	160.00	1.242	1.242	1.00
46	15:28	1.00	0.970	1.00	160.00	160.00	1.825	1.825	1.00
47	16:05	1.01	1.008	1.00	160.00	160.00	0.309	0.309	1.00
48	16:03	1.00	1.006	1.00	160.00	160.00	1.060	1.060	1.00
49	16:22	1.01	1.026	1.00	160.00	160.00	0.184	0.184	1.00
50	16:56	1.00	1.062	1.00	160.00	160.00	0.095	0.095	1.00

Quantitation Report File: 160BA1130

Data: 160BA1130.TI
11/30/93 12:30:00
Sample: SSTD160
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	C565 DIBENZOFURAN
52	C570 2,4-DINITROTOLUENE
53	C543 2,6-DINITROTOLUENE
54	C580 DIETHYL PHTHALATE
55	C585 4-CHLOROPHENYL PHENYLETHER
56	C590 FLUORENE
57	C595 4-NITROANILINE
58	C610 4,6-DINITRO-2-METHYLPHENOL
59	C615 N-NITROSODIPHENYLAMINE
60	C625 4-BROMOPHENYL PHENYLETHER
61	C630 HEXACHLOROBENZENE
62	C635 PENTACHLOROPHENOL
63	C640 PHENANTHRENE
64	C645 ANTHRACENE
65	C646 CARBAZOLE
66	C650 DI-N-BUTYL PHTHALATE
67	C655 FLUORANTHENE
68	C715 PYRENE
69	C720 BUTYL BENZYL PHTHALATE
70	C725 3,3'-DICHLOROBENZIDINE
71	C730 BENZO(A) ANTHRACENE
72	C745 BIS(2-ETHYLHEXYL) PHTHALATE
73	C740 CHRYSENE
74	C760 DI-N-OCTYL PHTHALATE
75	C765 BENZO(B) FLUORANTHENE
76	C770 BENZO(K) FLUORANTHENE
77	C775 BENZO(A) PYRENE
78	C780 INDENO(1,2,3-CD) PYRENE
79	C785 DIBENZ(A,H) ANTHRACENE
80	C790 BENZO(GHI) PERYLENE

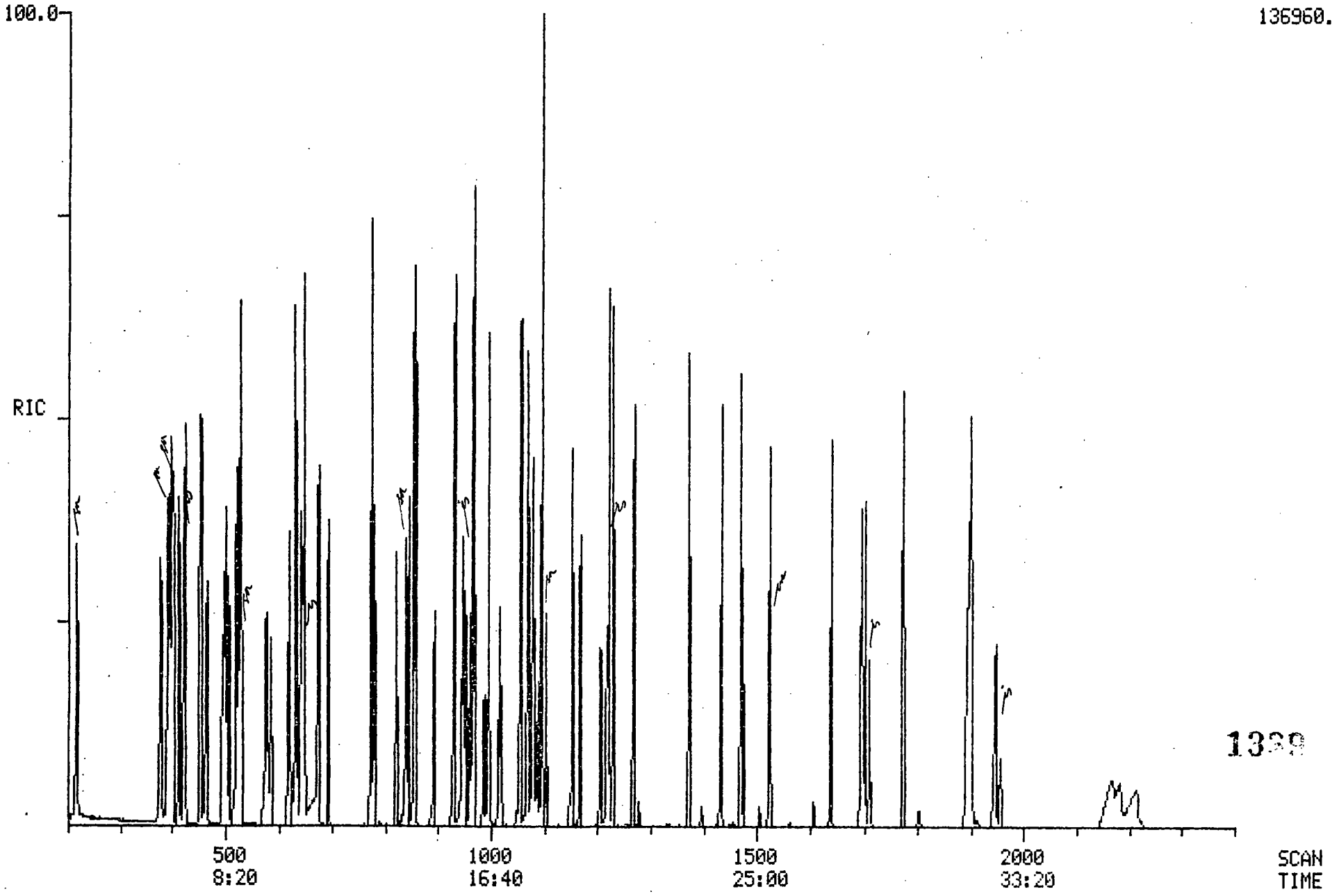
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
51	168	996	16:36	3	1.039	A BB	160430.	160.000	NG/UL	1.32
52	165	1017	16:57	3	1.060	A BB	38501.	160.000	NG/UL	1.32
53	165	952	15:52	3	0.993	A BV	33196.	160.000	NG/UL	1.32
54	149	1082	18:02	3	1.128	M XX	126159.	160.000	NG/UL	1.32
55	204	1069	17:49	3	1.115	A BB	70317.	160.000	NG/UL	1.32
56	166	1056	17:36	3	1.101	A BB	125134.	160.000	NG/UL	1.32
57	138	1085	18:05	3	1.131	M XX	26924.	160.000	NG/UL	1.32
58	198	1090	18:10	4	0.895	A VB	19479.	160.000	NG/UL	1.32
59	169	1096	18:16	4	0.900	A BB	85233.	160.000	NG/UL	1.32
60	248	1153	19:13	4	0.947	A BB	38989.	160.000	NG/UL	1.32
61	284	1169	19:29	4	0.960	A BB	37206.	160.000	NG/UL	1.32
62	266	1207	20:07	4	0.991	A BB	22875.	160.000	NG/UL	1.32
63	178	1223	20:23	4	1.004	A BV	173646.	160.000	NG/UL	1.32

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
64	178	1231	20:31	4	1.011	A VB	142685.	160.000	NG/UL	1.32
65	167	1270	21:10	4	1.043	A BB	138954.	160.000	NG/UL	1.32
66	149	1373	22:53	4	1.127	A VB	250692.	160.000	NG/UL	1.32
67	202	1436	23:56	4	1.179	A VB	170131.	160.000	NG/UL	1.32
68	202	1472	24:32	5	0.865	A VB	177054.	160.000	NG/UL	1.32
69	149	1642	27:22	5	0.965	A BB	111655.	160.000	NG/ML	1.32
70	252	1713	28:33	5	1.007	A BB	48631.	160.000	NG/UL	1.32
71	228	1699	28:19	5	0.999	A BV	178818.	160.000	NG/UL	1.32
72	149	1775	29:35	5	1.044	A BB	170368.	160.000	NG/UL	1.32
73	228	1706	28:26	5	1.003	A VB	119251.	160.000	NG/UL	1.32
74	149	1908	31:48	6	0.974	A BB	278921.	160.000	NG/UL	1.32
75	252	1902	31:42	6	0.971	M XX	206004.	160.000	NG/UL	1.32
76	252	1905	31:45	6	0.972	M XX	154662.	160.000	NG/UL	1.32
77	252	1953	32:33	6	0.997	A BB	158976.	160.000	NG/UL	1.32
78	276	2179	36:19	6	1.112	M XX	86396.	160.000	NG/UL	1.32
79	278	2198	36:38	6	1.122	M XX	81449.	160.000	NG/UL	1.32
80	276	2227	37:07	6	1.137	M XX	119603.	160.000	NG/UL	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	16:33	1.00	1.038	1.00	160.00	160.00	1.538	1.538	1.00
52	16:52	1.00	1.057	1.00	160.00	160.00	0.369	0.369	1.00
53	15:47	1.01	0.990	1.00	160.00	160.00	0.318	0.318	1.00
54	17:55	1.01	1.123	1.00	160.00	160.00	1.209	1.209	1.00
55	17:47	1.00	1.115	1.00	160.00	160.00	0.674	0.674	1.00
56	17:33	1.00	1.100	1.00	160.00	160.00	1.200	1.200	1.00
57	17:56	1.01	1.124	1.01	160.00	160.00	0.258	0.258	1.00
58	18:03	1.01	0.891	1.00	160.00	160.00	0.126	0.126	1.00
59	18:12	1.00	0.899	1.00	160.00	160.00	0.552	0.552	1.00
60	19:11	1.00	0.947	1.00	160.00	160.00	0.252	0.252	1.00
61	19:25	1.00	0.959	1.00	160.00	160.00	0.241	0.241	1.00
62	20:03	1.00	0.990	1.00	160.00	160.00	0.148	0.148	1.00
63	20:19	1.00	1.003	1.00	160.00	160.00	1.124	1.124	1.00
64	20:27	1.00	1.010	1.00	160.00	160.00	0.924	0.924	1.00
65	21:07	1.00	1.043	1.00	160.00	160.00	0.900	0.900	1.00
66	22:51	1.00	1.128	1.00	160.00	160.00	1.623	1.623	1.00
67	23:52	1.00	1.179	1.00	160.00	160.00	1.102	1.102	1.00
68	24:29	1.00	0.865	1.00	160.00	160.00	1.236	1.236	1.00
69	27:19	1.00	0.965	1.00	160.00	160.00	0.780	0.780	1.00
70	28:30	1.00	1.007	1.00	160.00	160.00	0.340	0.340	1.00
71	28:15	1.00	0.998	1.00	160.00	160.00	1.249	1.249	1.00
72	29:32	1.00	1.044	1.00	160.00	160.00	1.190	1.190	1.00
73	28:22	1.00	1.002	1.00	160.00	160.00	0.833	0.833	1.00
74	31:39	1.00	0.971	1.00	160.00	160.00	1.911	1.911	1.00
75	31:32	1.01	0.967	1.00	160.00	160.00	1.412	1.412	1.00
76	31:37	1.00	0.970	1.00	160.00	160.00	1.060	1.060	1.00
77	32:25	1.00	0.994	1.00	160.00	160.00	1.089	1.089	1.00
78	36:04	1.01	1.106	1.01	160.00	160.00	0.592	0.592	1.00
79	36:20	1.01	1.115	1.01	160.00	160.00	0.558	0.558	1.00
80	36:52	1.01	1.131	1.01	160.00	160.00	0.820	0.820	1.00

RIC
11/30/93 13:16:00
SAMPLE: SSTD120
CONDS.: INST. 001
RANGE: G 1,2400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 120BA1130 #1 SCANS 200 TO 2400
CALI: 120BA1130 #3



Quantitation Report File: 120BA1130

Data: 120BA1130.TI
11/30/93 13:16:00
Sample: SSTD120
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT. STD.)***
2	CI40 D8-NAPHTHALENE***(INT. STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT. STD.)***
5	CI70 D12-CHRYSENE***(INT. STD.)***
6	CI75 D12-PERYLENE***(INT. STD.)***
7	CS50 2-FLUOROPHENOL***(SURR. STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR. STD.)***
9	CS45 D5-PHENOL***(SURR. STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR. STD)***
11	CS20 D5-NITROBENZENE***(SURR. STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR. STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR. STD.)***
14	CS30 D14-TERPHENYL***(SURR. STD.)***
15	C315 PHENOL
16	C325 BIS(2-CHLOROETHYL) ETHER
17	C330 2-CHLOROPHENOL
18	C335 1,3-DICHLOROBENZENE
19	C340 1,4-DICHLOROBENZENE
20	C345 BENZYL ALCOHOL
21	C350 1,2-DICHLOROBENZENE
22	C355 2-METHYLPHENOL
23	C360 2,2'-OXYBIS(1-CHLOROPROPANE)
24	C365 4-METHYLPHENOL
25	C370 N-NITROSO-DI-N-PROPYLAMINE
26	C375 HEXACHLOROETHANE
27	C410 NITROBENZENE
28	C415 ISOPHRONE
29	C420 2-NITROPHENOL
30	C425 2,4-DIMETHYLPHENOL
31	C430 BENZOIC ACID
32	C435 BIS(2-CHLOROETHOXY) METHANE
33	C440 2,4-DICHLOROPHENOL
34	C445 1,2,4-TRICHLOROBENZENE
35	C450 NAPHTHALENE
36	C455 4-CHLOROANILINE
37	C460 HEXACHLOROBUTADIENE
38	C465 4-CHLORO-3-METHYLPHENOL
39	C470 2-METHYLNAPHTHALENE
40	C510 HEXACHLOROCYCLOPENTADIENE
41	C515 2,4,6-TRICHLOROPHENOL
42	C520 2,4,5-TRICHLOROPHENOL
43	C525 2-CHLORONAPHTHALENE
44	C530 2-NITROANILINE
45	C535 DIMETHYLPHTHALATE
46	C540 ACENAPHTYLENE
47	C545 3-NITROANILINE

No	Name
48	C550 ACENAPHTHENE
49	C555 2,4-DINITROPHENOL
50	C560 4-NITROPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	421	7:01	1	1.000	A BB	10687.	40.000	NG/UL	0.44
2	136	645	10:45	2	1.000	A BB	38794.	40.000	NG/UL	0.44
3	164	959	15:59	3	1.000	A BB	23335.	40.000	NG/UL	0.44
4	188	1217	20:17	4	1.000	A VB	31274.	40.000	NG/UL	0.44
5	240	1698	28:18	5	1.000	A BB	22593.	40.000	NG/UL	0.44
6	264	1955	32:35	6	1.000	A BB	18246.	40.000	NG/UL	0.44
7	112	217	3:37	1	0.515	A BB	48955.	120.000	NG/UL	1.32
8	132	391	6:31	1	0.929	A BB	42996.	120.000	NG/UL	1.32
9	99	400	6:40	1	0.950	A BB	60578.	120.000	NG/UL	1.32
10	152	452	7:32	1	1.074	A BB	26988.	120.000	NG/UL	1.32
11	82	526	8:46	2	0.816	A BB	44376.	120.000	NG/UL	1.32
12	172	854	14:14	3	0.891	A BB	80691.	120.000	NG/UL	1.32
13	330	1103	18:23	3	1.150	A BB	12472.	120.000	NG/UL	1.32
14	244	1525	25:25	5	0.898	A BB	68919.	120.000	NG/UL	1.32
15	94	403	6:43	1	0.957	A BB	55847.	120.000	NG/UL	1.32
16	93	398	6:38	1	0.945	A BB	51192.	120.000	NG/UL	1.32
17	128	394	6:34	1	0.936	A BB	41616.	120.000	NG/UL	1.32
18	146	413	6:53	1	0.981	A BV	46279.	120.000	NG/UL	1.32
19	146	424	7:04	1	1.007	A VB	48166.	120.000	NG/UL	1.32
20	108	466	7:46	1	1.107	A BB	28196.	120.000	NG/UL	1.32
21	146	455	7:35	1	1.081	A BB	45193.	120.000	NG/UL	1.32
22	108	502	8:22	1	1.192	A BB	39672.	120.000	NG/UL	1.32
23	45	495	8:15	1	1.176	A BB	88568.	120.000	NG/UL	1.32
24	108	531	8:51	1	1.261	A BB	41454.	120.000	NG/UL	1.32
25	70	522	8:42	1	1.240	A BB	43302.	120.000	NG/UL	1.32
26	117	507	8:27	1	1.204	A BB	17224.	120.000	NG/UL	1.32
27	77	530	8:50	2	0.822	A BB	61339.	120.000	NG/UL	1.32
28	82	578	9:38	2	0.896	A BB	93314.	120.000	NG/UL	1.32
29	139	586	9:46	2	0.909	A VB	22219.	120.000	NG/UL	1.32
30	107	621	10:21	2	0.963	A BB	35607.	120.000	NG/UL	1.32
31	122	674	11:14	2	1.045	M XX	17202.	120.000	NG/UL	1.32
32	93	633	10:33	2	0.981	A VB	62758.	120.000	NG/UL	1.32
33	162	635	10:35	2	0.984	A BB	31203.	120.000	NG/UL	1.32
34	180	642	10:42	2	0.995	A BB	35822.	120.000	NG/UL	1.32
35	128	649	10:49	2	1.006	A BB	117967.	120.000	NG/UL	1.32
36	127	675	11:15	2	1.047	A BB	55083.	120.000	NG/UL	1.32
37	225	693	11:33	2	1.074	A BB	18250.	120.000	NG/UL	1.32
38	107	779	12:59	2	1.208	A BB	33231.	120.000	NG/UL	1.32
39	142	774	12:54	2	1.200	A BV	88900.	120.000	NG/UL	1.32
40	237	820	13:40	3	0.855	A BB	24084.	120.000	NG/UL	1.32
41	196	838	13:58	3	0.874	A BV	25038.	120.000	NG/UL	1.32
42	196	843	14:03	3	0.879	A VB	23406.	120.000	NG/UL	1.32
43	162	858	14:18	3	0.895	A BB	76731.	120.000	NG/UL	1.32
44	65	892	14:52	3	0.930	A BB	26131.	120.000	NG/UL	1.32
45	163	946	15:46	3	0.986	A BB	88127.	120.000	NG/UL	1.32
46	152	930	15:30	3	0.970	A BB	122147.	120.000	NG/UL	1.32
47	138	969	16:09	3	1.010	A BB	23211.	120.000	NG/UL	1.32
48	153	965	16:05	3	1.006	A BB	70859.	120.000	NG/UL	1.32
49	184	985	16:25	3	1.027	A BB	11518.	120.000	NG/UL	1.32
50	109	1019	16:59	3	1.063	A BB	5879.	120.000	NG/UL	1.32

01 11-30-93

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	15:57	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	20:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	28:18	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	32:36	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:37	1.00	0.517	1.00	120.00	120.00	1.527	1.527	1.00
8	6:29	1.01	0.926	1.00	120.00	120.00	1.341	1.341	1.00
9	6:37	1.01	0.945	1.01	120.00	120.00	1.889	1.889	1.00
10	7:31	1.00	1.074	1.00	120.00	120.00	0.842	0.842	1.00
11	8:44	1.00	0.815	1.00	120.00	120.00	0.381	0.381	1.00
12	14:11	1.00	0.889	1.00	120.00	120.00	1.153	1.153	1.00
13	18:20	1.00	1.149	1.00	120.00	120.00	0.178	0.178	1.00
14	25:23	1.00	0.897	1.00	120.00	120.00	1.017	1.017	1.00
15	6:40	1.01	0.952	1.01	120.00	120.00	1.742	1.742	1.00
16	6:36	1.01	0.943	1.00	120.00	120.00	1.597	1.597	1.00
17	6:32	1.01	0.933	1.00	120.00	120.00	1.298	1.298	1.00
18	6:52	1.00	0.981	1.00	120.00	120.00	1.443	1.443	1.00
19	7:02	1.00	1.005	1.00	120.00	120.00	1.502	1.502	1.00
20	7:43	1.01	1.102	1.00	120.00	120.00	0.879	0.879	1.00
21	7:33	1.00	1.079	1.00	120.00	120.00	1.410	1.410	1.00
22	8:19	1.01	1.188	1.00	120.00	120.00	1.237	1.237	1.00
23	8:14	1.00	1.176	1.00	120.00	120.00	2.762	2.762	1.00
24	8:48	1.01	1.257	1.00	120.00	120.00	1.293	1.293	1.00
25	8:38	1.01	1.233	1.01	120.00	120.00	1.351	1.351	1.00
26	8:26	1.00	1.205	1.00	120.00	120.00	0.537	0.537	1.00
27	8:47	1.01	0.820	1.00	120.00	120.00	0.527	0.527	1.00
28	9:34	1.01	0.893	1.00	120.00	120.00	0.802	0.802	1.00
29	9:44	1.00	0.908	1.00	120.00	120.00	0.191	0.191	1.00
30	10:18	1.00	0.961	1.00	120.00	120.00	0.306	0.306	1.00
31	11:03	1.02	1.031	1.01	120.00	120.00	0.148	0.148	1.00
32	10:30	1.00	0.980	1.00	120.00	120.00	0.539	0.539	1.00
33	10:32	1.00	0.983	1.00	120.00	120.00	0.268	0.268	1.00
34	10:41	1.00	0.997	1.00	120.00	120.00	0.308	0.308	1.00
35	10:47	1.00	1.006	1.00	120.00	120.00	1.014	1.014	1.00
36	11:12	1.00	1.045	1.00	120.00	120.00	0.473	0.473	1.00
37	11:31	1.00	1.075	1.00	120.00	120.00	0.157	0.157	1.00
38	12:57	1.00	1.208	1.00	120.00	120.00	0.286	0.286	1.00
39	12:52	1.00	1.201	1.00	120.00	120.00	0.764	0.764	1.00
40	13:39	1.00	0.856	1.00	120.00	120.00	0.344	0.344	1.00
41	13:56	1.00	0.874	1.00	120.00	120.00	0.358	0.358	1.00
42	14:01	1.00	0.879	1.00	120.00	120.00	0.334	0.334	1.00
43	14:16	1.00	0.894	1.00	120.00	120.00	1.096	1.096	1.00
44	14:50	1.00	0.930	1.00	120.00	120.00	0.373	0.373	1.00
45	15:43	1.00	0.985	1.00	120.00	120.00	1.259	1.259	1.00
46	15:28	1.00	0.970	1.00	120.00	120.00	1.745	1.745	1.00
47	16:05	1.00	1.008	1.00	120.00	120.00	0.332	0.332	1.00
48	16:03	1.00	1.006	1.00	120.00	120.00	1.012	1.012	1.00
49	16:22	1.00	1.026	1.00	120.00	120.00	0.165	0.165	1.00
50	16:56	1.00	1.062	1.00	120.00	120.00	0.084	0.084	1.00

Quantitation Report File: 120BA1130

Data: 120BA1130.TI
11/30/93 13:16:00
Sample: SSTD120
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	C565 DIBENZOFURAN
52	C570 2,4-DINITROTOLUENE
53	C543 2,6-DINITROTOLUENE
54	C580 DIETHYL PHTHALATE
55	C585 4-CHLOROPHENYL PHENYLETHER
56	C590 FLUORENE
57	C595 4-NITROANILINE
58	C610 4,6-DINITRO-2-METHYLPHENOL
59	C615 N-NITROSODIPHENYLAMINE
60	C625 4-BROMOPHENYL PHENYLETHER
61	C630 HEXACHLOROBENZENE
62	C635 PENTACHLOROPHENOL
63	C640 PHENANTHRENE
64	C645 ANTHRACENE
65	C646 CARBAZOLE
66	C650 DI-N-BUTYL PHTHALATE
67	C655 FLUORANTHENE
68	C715 PYRENE
69	C720 BUTYL BENZYL PHTHALATE
70	C725 3,3'-DICHLOROBENZIDINE
71	C730 BENZO(A) ANTHRACENE
72	C745 BIS(2-ETHYLHEXYL) PHTHALATE
73	C740 CHRYSENE
74	C760 DI-N-OCTYL PHTHALATE
75	C765 BENZO(B) FLUORANTHENE
76	C770 BENZO(K) FLUORANTHENE
77	C775 BENZO(A) PYRENE
78	C780 INDENO(1,2,3-CD) PYRENE
79	C785 DIBENZ(A,H) ANTHRACENE
80	C790 BENZO(GHI) PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	168	995	16:35	3	1.038	A BB	107334.	120.000 NG/UL	1.32
52	165	1015	16:55	3	1.058	A BB	25701.	120.000 NG/UL	1.32
53	165	950	15:50	3	0.991	A BB	21202.	120.000 NG/UL	1.32
54	149	1079	17:59	3	1.125	A BB	84688.	120.000 NG/UL	1.32
55	204	1069	17:49	3	1.115	A BB	45768.	120.000 NG/UL	1.32
56	166	1055	17:35	3	1.100	A BB	83052.	120.000 NG/UL	1.32
57	138	1082	18:02	3	1.128	M XX	18511.	120.000 NG/UL	1.32
58	198	1087	18:07	4	0.893	A BB	13300.	120.000 NG/UL	1.32
59	169	1095	18:15	4	0.900	A BB	55775.	120.000 NG/UL	1.32
60	248	1153	19:13	4	0.947	A BB	25135.	120.000 NG/UL	1.32
61	284	1168	19:28	4	0.960	A BB	23351.	120.000 NG/UL	1.32
62	266	1205	20:05	4	0.990	A BB	13544.	120.000 NG/UL	1.32
63	178	1222	20:22	4	1.004	A BV	107378.	120.000 NG/UL	1.32

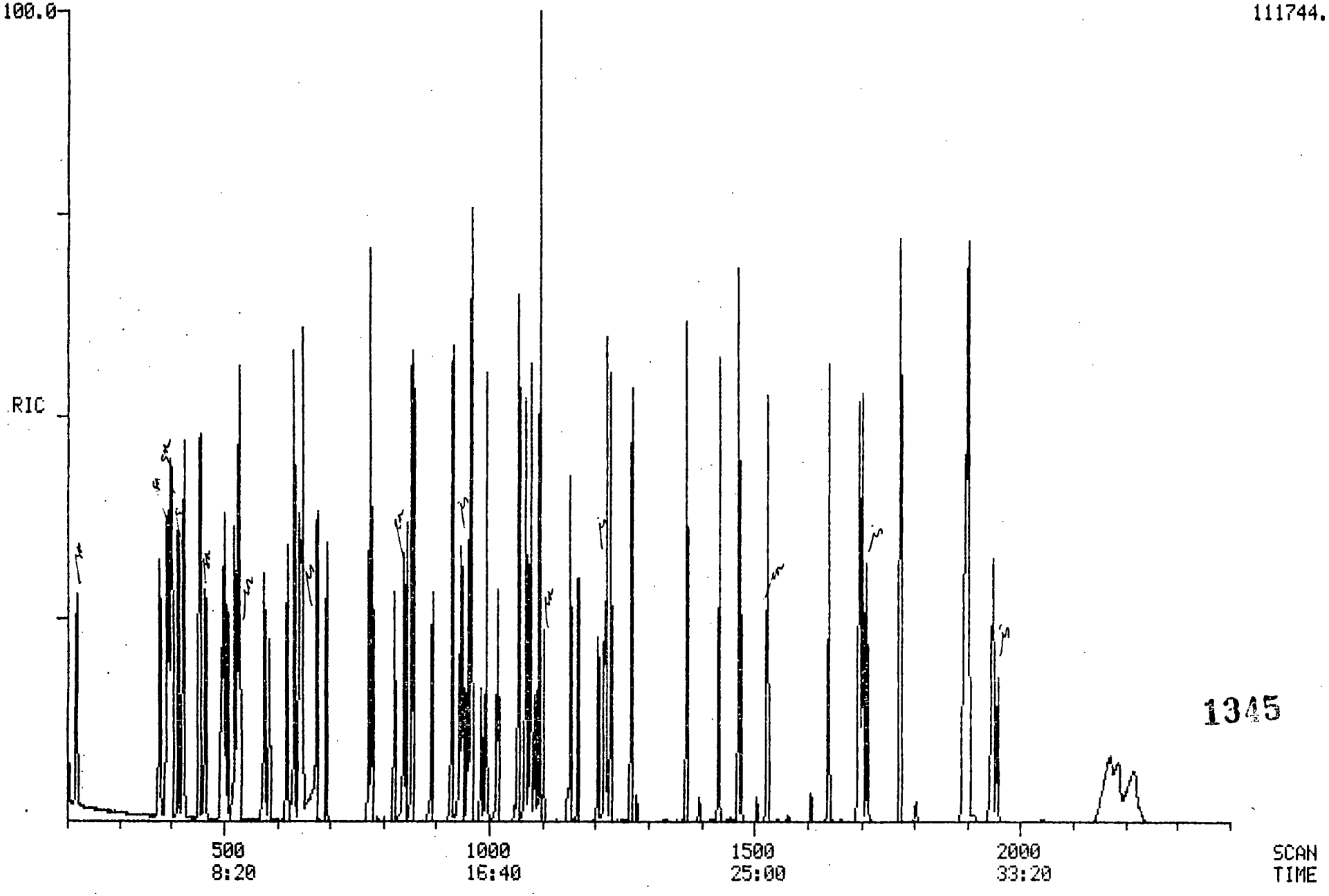
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
64	178	1230	20:30	4	1.011	A VB	97382.	120.000	NG/UL	1.32
65	167	1269	21:09	4	1.043	A VB	89227.	120.000	NG/UL	1.32
66	149	1372	22:52	4	1.127	A VB	146748.	120.000	NG/UL	1.32
67	202	1434	23:54	4	1.178	A BB	94312.	120.000	NG/UL	1.32
68	202	1471	24:31	5	0.866	A BB	93105.	120.000	NG/UL	1.32
69	149	1640	27:20	5	0.966	A BB	48918.	120.000	NG/ML	1.32
70	252	1711	28:31	5	1.008	A BB	20148.	120.000	NG/UL	1.32
71	228	1696	28:16	5	0.999	A BV	76783.	120.000	NG/UL	1.32
72	149	1773	29:33	5	1.044	A BB	72781.	120.000	NG/UL	1.32
73	228	1703	28:23	5	1.003	A VB	57634.	120.000	NG/UL	1.32
74	149	1901	31:41	6	0.972	A BB	112840.	120.000	NG/UL	1.32
75	252	1894	31:34	6	0.969	A BV	83383.	120.000	NG/UL	1.32
76	252	1899	31:39	6	0.971	A VB	46611.	120.000	NG/UL	1.32
77	252	1947	32:27	6	0.996	A BB	62677.	120.000	NG/UL	1.32
78	276	2168	36:08	6	1.109	M XX	41764.	120.000	NG/UL	1.32
79	278	2181	36:21	6	1.116	A BB	31032.	120.000	NG/UL	1.32
80	276	2213	36:53	6	1.132	A BB	26635.	120.000	NG/UL	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	16:33	1.00	1.038	1.00	120.00	120.00	1.533	1.533	1.00
52	16:52	1.00	1.057	1.00	120.00	120.00	0.367	0.367	1.00
53	15:47	1.00	0.990	1.00	120.00	120.00	0.303	0.303	1.00
54	17:55	1.00	1.123	1.00	120.00	120.00	1.210	1.210	1.00
55	17:47	1.00	1.115	1.00	120.00	120.00	0.654	0.654	1.00
56	17:33	1.00	1.100	1.00	120.00	120.00	1.186	1.186	1.00
57	17:56	1.01	1.124	1.00	120.00	120.00	0.264	0.264	1.00
58	18:03	1.00	0.891	1.00	120.00	120.00	0.142	0.142	1.00
59	18:12	1.00	0.899	1.00	120.00	120.00	0.594	0.594	1.00
60	19:11	1.00	0.947	1.00	120.00	120.00	0.268	0.268	1.00
61	19:25	1.00	0.959	1.00	120.00	120.00	0.249	0.249	1.00
62	20:03	1.00	0.990	1.00	120.00	120.00	0.144	0.144	1.00
63	20:19	1.00	1.003	1.00	120.00	120.00	1.144	1.144	1.00
64	20:27	1.00	1.010	1.00	120.00	120.00	1.038	1.038	1.00
65	21:07	1.00	1.043	1.00	120.00	120.00	0.951	0.951	1.00
66	22:51	1.00	1.128	1.00	120.00	120.00	1.564	1.564	1.00
67	23:52	1.00	1.179	1.00	120.00	120.00	1.005	1.005	1.00
68	24:29	1.00	0.865	1.00	120.00	120.00	1.374	1.374	1.00
69	27:19	1.00	0.965	1.00	120.00	120.00	0.722	0.722	1.00
70	28:30	1.00	1.007	1.00	120.00	120.00	0.297	0.297	1.00
71	28:15	1.00	0.998	1.00	120.00	120.00	1.133	1.133	1.00
72	29:32	1.00	1.044	1.00	120.00	120.00	1.074	1.074	1.00
73	28:22	1.00	1.002	1.00	120.00	120.00	0.850	0.850	1.00
74	31:39	1.00	0.971	1.00	120.00	120.00	2.061	2.061	1.00
75	31:32	1.00	0.967	1.00	120.00	120.00	1.523	1.523	1.00
76	31:37	1.00	0.970	1.00	120.00	120.00	0.852	0.852	1.00
77	32:25	1.00	0.994	1.00	120.00	120.00	1.145	1.145	1.00
78	36:04	1.00	1.106	1.00	120.00	120.00	0.763	0.763	1.00
79	36:20	1.00	1.115	1.00	120.00	120.00	0.567	0.567	1.00
80	36:52	1.00	1.131	1.00	120.00	120.00	0.487	0.487	1.00

RIC
11/30/93 14:02:00
SAMPLE: SSTD080
CONDS.: INST. 001
RANGE: G 1,2400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 80BA1130 #1
CALI: 80BA1130 #3

SCANS 200 TO 2400



1345

Quantitation Report File: 80BA1130

Data: 80BA1130.TI
11/30/93 14:02:00
Sample: SSTD080
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT. STD.)***
2	CI40 D8-NAPHTHALENE***(INT. STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT. STD.)***
5	CI70 D12-CHRYSENE***(INT. STD.)***
6	CI75 D12-PERYLENE***(INT. STD.)***
7	CS50 2-FLUOROPHENOL***(SURR. STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR. STD.)***
9	CS45 D5-PHENOL***(SURR. STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR. STD)***
11	CS20 D5-NITROBENZENE***(SURR. STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR. STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR. STD.)***
14	CS30 D14-TERPHENYL***(SURR. STD.)***
15	C315 PHENOL
16	C325 BIS(2-CHLOROETHYL) ETHER
17	C330 2-CHLOROPHENOL
18	C335 1,3-DICHLOROBENZENE
19	C340 1,4-DICHLOROBENZENE
20	C345 BENZYL ALCOHOL
21	C350 1,2-DICHLOROBENZENE
22	C355 2-METHYLPHENOL
23	C360 2,2'-OXYBIS(1-CHLOROPROPANE)
24	C365 4-METHYLPHENOL
25	C370 N-NITROSO-DI-N-PROPYLAMINE
26	C375 HEXACHLOROETHANE
27	C410 NITROBENZENE
28	C415 ISOPHRONE
29	C420 2-NITROPHENOL
30	C425 2,4-DIMETHYLPHENOL
31	C430 BENZOIC ACID
32	C435 BIS(2-CHLOROETHOXY) METHANE
33	C440 2,4-DICHLOROPHENOL
34	C445 1,2,4-TRICHLOROBENZENE
35	C450 NAPHTHALENE
36	C455 4-CHLOROANILINE
37	C460 HEXACHLOROBUTADIENE
38	C465 4-CHLORO-3-METHYLPHENOL
39	C470 2-METHYLNAPHTHALENE
40	C510 HEXACHLOROCYCLOPENTADIENE
41	C515 2,4,6-TRICHLOROPHENOL
42	C520 2,4,5-TRICHLOROPHENOL
43	C525 2-CHLORONAPHTHALENE
44	C530 2-NITROANILINE
45	C535 DIMETHYLPHTHALATE
46	C540 ACENAPHTYLENE
47	C545 3-NITROANILINE

No	Name
48	C550 ACENAPHTHENE
49	C555 2,4-DINITROPHENOL
50	C560 4-NITROPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	421	7:01	1	1.000	A BB	11220.	40.000	NG/UL	0.65
2	136	645	10:45	2	1.000	A BB	43921.	40.000	NG/UL	0.65
3	164	959	15:59	3	1.000	A BB	25248.	40.000	NG/UL	0.65
4	188	1217	20:17	4	1.000	A BB	36815.	40.000	NG/UL	0.65
5	240	1699	28:19	5	1.000	A BB	37361.	40.000	NG/UL	0.65
6	264	1958	32:38	6	1.000	A BB	34026.	40.000	NG/UL	0.65
7	112	218	3:38	1	0.518	A BB	35966.	80.000	NG/UL	1.30
8	132	391	6:31	1	0.929	A BB	31074.	80.000	NG/UL	1.30
9	99	400	6:40	1	0.950	A BB	42839.	80.000	NG/UL	1.30
10	152	453	7:33	1	1.076	A BB	19772.	80.000	NG/UL	1.30
11	82	526	8:46	2	0.816	A BB	33840.	80.000	NG/UL	1.30
12	172	853	14:13	3	0.889	A BB	61912.	80.000	NG/UL	1.30
13	330	1103	18:23	3	1.150	A BB	9692.	80.000	NG/UL	1.30
14	244	1525	25:25	5	0.898	A BB	66224.	80.000	NG/UL	1.30
15	94	402	6:42	1	0.955	A BB	38892.	80.000	NG/UL	1.30
16	93	398	6:38	1	0.945	A BB	36666.	80.000	NG/UL	1.30
17	128	394	6:34	1	0.936	A BB	29699.	80.000	NG/UL	1.30
18	146	413	6:53	1	0.981	A BV	33768.	80.000	NG/UL	1.30
19	146	424	7:04	1	1.007	A VB	34600.	80.000	NG/UL	1.30
20	108	465	7:45	1	1.105	A BB	20794.	80.000	NG/UL	1.30
21	146	455	7:35	1	1.081	A BB	32488.	80.000	NG/UL	1.30
22	108	502	8:22	1	1.192	A BB	29323.	80.000	NG/UL	1.30
23	45	496	8:16	1	1.178	A BB	63817.	80.000	NG/UL	1.30
24	108	530	8:50	1	1.259	A BB	30499.	80.000	NG/UL	1.30
25	70	521	8:41	1	1.238	A BB	31586.	80.000	NG/UL	1.30
26	117	507	8:27	1	1.204	A BB	12653.	80.000	NG/UL	1.30
27	77	529	8:49	2	0.820	A BB	44406.	80.000	NG/UL	1.30
28	82	577	9:37	2	0.895	A BB	70114.	80.000	NG/UL	1.30
29	139	586	9:46	2	0.909	A BB	15942.	80.000	NG/UL	1.30
30	107	620	10:20	2	0.961	A BB	25817.	80.000	NG/UL	1.30
31	122	670	11:10	2	1.039	M XX	13799.	80.000	NG/UL	1.30
32	93	633	10:33	2	0.981	A BB	46602.	80.000	NG/UL	1.30
33	162	634	10:34	2	0.983	A BB	22767.	80.000	NG/UL	1.30
34	180	642	10:42	2	0.995	A BB	26077.	80.000	NG/UL	1.30
35	128	649	10:49	2	1.006	A BB	87575.	80.000	NG/UL	1.30
36	127	674	11:14	2	1.045	A BB	41755.	80.000	NG/UL	1.30
37	225	693	11:33	2	1.074	A BB	13630.	80.000	NG/UL	1.30
38	107	779	12:59	2	1.208	A BB	23999.	80.000	NG/UL	1.30
39	142	774	12:54	2	1.200	A BV	65335.	80.000	NG/UL	1.30
40	237	820	13:40	3	0.855	A BB	17291.	80.000	NG/UL	1.30
41	196	838	13:58	3	0.874	A BV	17767.	80.000	NG/UL	1.30
42	196	843	14:03	3	0.879	A VB	16956.	80.000	NG/UL	1.30
43	162	858	14:18	3	0.895	A BB	57712.	80.000	NG/UL	1.30
44	65	892	14:52	3	0.930	A BB	18730.	80.000	NG/UL	1.30
45	163	945	15:45	3	0.985	A BB	66464.	80.000	NG/UL	1.30
46	152	930	15:30	3	0.970	A BB	89438.	80.000	NG/UL	1.30
47	138	968	16:08	3	1.009	A BB	16353.	80.000	NG/UL	1.30
48	153	965	16:05	3	1.006	A BB	52041.	80.000	NG/UL	1.30
49	184	985	16:25	3	1.027	A BB	8411.	80.000	NG/UL	1.30
50	109	1018	16:58	3	1.062	A BB	5082.	80.000	NG/UL	1.30

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	15:57	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	20:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	28:18	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	32:36	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:37	1.00	0.517	1.00	80.00	80.00	1.603	1.603	1.00
8	6:29	1.01	0.926	1.00	80.00	80.00	1.385	1.385	1.00
9	6:37	1.01	0.945	1.01	80.00	80.00	1.909	1.909	1.00
10	7:31	1.00	1.074	1.00	80.00	80.00	0.881	0.881	1.00
11	8:44	1.00	0.815	1.00	80.00	80.00	0.385	0.385	1.00
12	14:11	1.00	0.889	1.00	80.00	80.00	1.226	1.226	1.00
13	18:20	1.00	1.149	1.00	80.00	80.00	0.192	0.192	1.00
14	25:23	1.00	0.897	1.00	80.00	80.00	0.886	0.886	1.00
15	6:40	1.01	0.952	1.00	80.00	80.00	1.733	1.733	1.00
16	6:36	1.01	0.943	1.00	80.00	80.00	1.634	1.634	1.00
17	6:32	1.01	0.933	1.00	80.00	80.00	1.323	1.323	1.00
18	6:52	1.00	0.981	1.00	80.00	80.00	1.505	1.505	1.00
19	7:02	1.00	1.005	1.00	80.00	80.00	1.542	1.542	1.00
20	7:43	1.00	1.102	1.00	80.00	80.00	0.927	0.927	1.00
21	7:33	1.00	1.079	1.00	80.00	80.00	1.448	1.448	1.00
22	8:19	1.01	1.188	1.00	80.00	80.00	1.307	1.307	1.00
23	8:14	1.00	1.176	1.00	80.00	80.00	2.844	2.844	1.00
24	8:48	1.00	1.257	1.00	80.00	80.00	1.359	1.359	1.00
25	8:38	1.01	1.233	1.00	80.00	80.00	1.408	1.408	1.00
26	8:26	1.00	1.205	1.00	80.00	80.00	0.564	0.564	1.00
27	8:47	1.00	0.820	1.00	80.00	80.00	0.506	0.506	1.00
28	9:34	1.01	0.893	1.00	80.00	80.00	0.798	0.798	1.00
29	9:44	1.00	0.908	1.00	80.00	80.00	0.181	0.181	1.00
30	10:18	1.00	0.961	1.00	80.00	80.00	0.294	0.294	1.00
31	11:03	1.01	1.031	1.01	80.00	80.00	0.157	0.157	1.00
32	10:30	1.00	0.980	1.00	80.00	80.00	0.531	0.531	1.00
33	10:32	1.00	0.983	1.00	80.00	80.00	0.259	0.259	1.00
34	10:41	1.00	0.997	1.00	80.00	80.00	0.297	0.297	1.00
35	10:47	1.00	1.006	1.00	80.00	80.00	0.997	0.997	1.00
36	11:12	1.00	1.045	1.00	80.00	80.00	0.475	0.475	1.00
37	11:31	1.00	1.075	1.00	80.00	80.00	0.155	0.155	1.00
38	12:57	1.00	1.208	1.00	80.00	80.00	0.273	0.273	1.00
39	12:52	1.00	1.201	1.00	80.00	80.00	0.744	0.744	1.00
40	13:39	1.00	0.856	1.00	80.00	80.00	0.342	0.342	1.00
41	13:56	1.00	0.874	1.00	80.00	80.00	0.352	0.352	1.00
42	14:01	1.00	0.879	1.00	80.00	80.00	0.336	0.336	1.00
43	14:16	1.00	0.894	1.00	80.00	80.00	1.143	1.143	1.00
44	14:50	1.00	0.930	1.00	80.00	80.00	0.371	0.371	1.00
45	15:43	1.00	0.985	1.00	80.00	80.00	1.316	1.316	1.00
46	15:28	1.00	0.970	1.00	80.00	80.00	1.771	1.771	1.00
47	16:05	1.00	1.008	1.00	80.00	80.00	0.324	0.324	1.00
48	16:03	1.00	1.006	1.00	80.00	80.00	1.031	1.031	1.00
49	16:22	1.00	1.026	1.00	80.00	80.00	0.167	0.167	1.00
50	16:56	1.00	1.062	1.00	80.00	80.00	0.101	0.101	1.00

Quantitation Report File: 80BA1130

Data: 80BA1130.TI
11/30/93 14:02:00
Sample: SSTD080
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	C565 DIBENZOFURAN
52	C570 2,4-DINITROTOLUENE
53	C543 2,6-DINITROTOLUENE
54	C580 DIETHYL PHTHALATE
55	C585 4-CHLOROPHENYL PHENYLETHER
56	C590 FLUORENE
57	C595 4-NITROANILINE
58	C610 4,6-DINITRO-2-METHYLPHENOL
59	C615 N-NITROSODIPHENYLAMINE
60	C625 4-BROMOPHENYL PHENYLETHER
61	C630 HEXACHLOROBENZENE
62	C635 PENTACHLOROPHENOL
63	C640 PHENANTHRENE
64	C645 ANTHRACENE
65	C646 CARBAZOLE
66	C650 DI-N-BUTYL PHTHALATE
67	C655 FLUORANTHENE
68	C715 PYRENE
69	C720 BUTYL BENZYL PHTHALATE
70	C725 3,3'-DICHLOROBENZIDINE
71	C730 BENZO(A) ANTHRACENE
72	C745 BIS(2-ETHYLHEXYL) PHTHALATE
73	C740 CHRYSENE
74	C760 DI-N-OCTYL PHTHALATE
75	C765 BENZO(B) FLUORANTHENE
76	C770 BENZO(K) FLUORANTHENE
77	C775 BENZO(A) PYRENE
78	C780 INDENO(1,2,3-CD) PYRENE
79	C785 DIBENZ(A,H) ANTHRACENE
80	C790 BENZO(GHI) PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	168	995	16:35	3	1.038	A BB	78793.	80.000 NG/UL	1.30
52	165	1015	16:55	3	1.058	A BB	18691.	80.000 NG/UL	1.30
53	165	950	15:50	3	0.991	A BB	15921.	80.000 NG/UL	1.30
54	149	1078	17:58	3	1.124	A VB	63332.	80.000 NG/UL	1.30
55	204	1069	17:49	3	1.115	A BB	33335.	80.000 NG/UL	1.30
56	166	1055	17:35	3	1.100	A BB	60990.	80.000 NG/UL	1.30
57	138	1080	18:00	3	1.126	A BB	14874.	80.000 NG/UL	1.30
58	198	1086	18:06	4	0.892	A BB	9945.	80.000 NG/UL	1.30
59	169	1095	18:15	4	0.900	A VB	42642.	80.000 NG/UL	1.30
60	248	1152	19:12	4	0.947	A BB	18489.	80.000 NG/UL	1.30
61	284	1167	19:27	4	0.959	A BB	17661.	80.000 NG/UL	1.30
62	266	1205	20:05	4	0.990	A BB	10566.	80.000 NG/UL	1.30
63	178	1221	20:21	4	1.003	A BV	84733.	80.000 NG/UL	1.30

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
64	178	1229	20:29	4	1.010	A VB	74322.	80.000	NG/UL	1.30
65	167	1269	21:09	4	1.043	A BB	74621.	80.000	NG/UL	1.30
66	149	1373	22:53	4	1.128	A BB	120331.	80.000	NG/UL	1.30
67	202	1434	23:54	4	1.178	A BB	85554.	80.000	NG/UL	1.30
68	202	1471	24:31	5	0.866	A VB	85989.	80.000	NG/UL	1.30
69	149	1641	27:21	5	0.966	A BB	52939.	80.000	NG/ML	1.30
70	252	1712	28:32	5	1.008	A BB	26650.	80.000	NG/UL	1.30
71	228	1697	28:17	5	0.999	A BV	83598.	80.000	NG/UL	1.30
72	149	1774	29:34	5	1.044	A BB	81426.	80.000	NG/UL	1.30
73	228	1704	28:24	5	1.003	A VB	60722.	80.000	NG/UL	1.30
74	149	1903	31:43	6	0.972	A BB	134335.	80.000	NG/UL	1.30
75	252	1896	31:36	6	0.968	A BV	110347.	80.000	NG/UL	1.30
76	252	1900	31:40	6	0.970	A VB	51299.	80.000	NG/UL	1.30
77	252	1949	32:29	6	0.995	A BB	77833.	80.000	NG/UL	1.30
78	276	2171	36:11	6	1.109	M XX	44125.	80.000	NG/UL	1.30
79	278	2186	36:26	6	1.116	M XX	37368.	80.000	NG/UL	1.30
80	276	2218	36:58	6	1.133	M XX	39647.	80.000	NG/UL	1.30

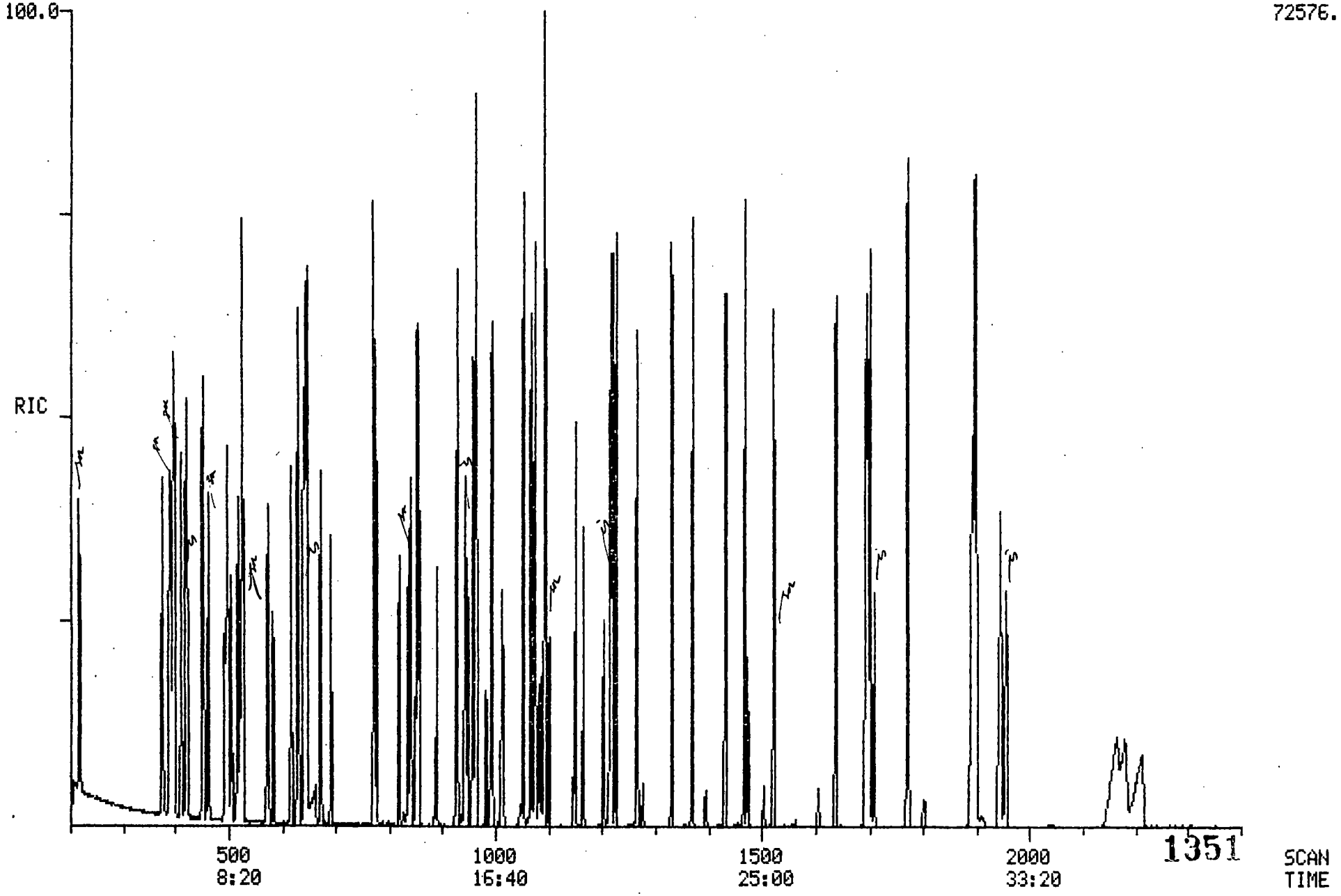
11.20.93

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	16:33	1.00	1.038	1.00	80.00	80.00	1.560	1.560	1.00
52	16:52	1.00	1.057	1.00	80.00	80.00	0.370	0.370	1.00
53	15:47	1.00	0.990	1.00	80.00	80.00	0.315	0.315	1.00
54	17:55	1.00	1.123	1.00	80.00	80.00	1.254	1.254	1.00
55	17:47	1.00	1.115	1.00	80.00	80.00	0.660	0.660	1.00
56	17:33	1.00	1.100	1.00	80.00	80.00	1.208	1.208	1.00
57	17:56	1.00	1.124	1.00	80.00	80.00	0.295	0.295	1.00
58	18:03	1.00	0.891	1.00	80.00	80.00	0.135	0.135	1.00
59	18:12	1.00	0.899	1.00	80.00	80.00	0.579	0.579	1.00
60	19:11	1.00	0.947	1.00	80.00	80.00	0.251	0.251	1.00
61	19:25	1.00	0.959	1.00	80.00	80.00	0.240	0.240	1.00
62	20:03	1.00	0.990	1.00	80.00	80.00	0.144	0.144	1.00
63	20:19	1.00	1.003	1.00	80.00	80.00	1.151	1.151	1.00
64	20:27	1.00	1.010	1.00	80.00	80.00	1.009	1.009	1.00
65	21:07	1.00	1.043	1.00	80.00	80.00	1.013	1.013	1.00
66	22:51	1.00	1.128	1.00	80.00	80.00	1.634	1.634	1.00
67	23:52	1.00	1.179	1.00	80.00	80.00	1.162	1.162	1.00
68	24:29	1.00	0.865	1.00	80.00	80.00	1.151	1.151	1.00
69	27:19	1.00	0.965	1.00	80.00	80.00	0.708	0.708	1.00
70	28:30	1.00	1.007	1.00	80.00	80.00	0.357	0.357	1.00
71	28:15	1.00	0.998	1.00	80.00	80.00	1.119	1.119	1.00
72	29:32	1.00	1.044	1.00	80.00	80.00	1.090	1.090	1.00
73	28:22	1.00	1.002	1.00	80.00	80.00	0.813	0.813	1.00
74	31:39	1.00	0.971	1.00	80.00	80.00	1.974	1.974	1.00
75	31:32	1.00	0.967	1.00	80.00	80.00	1.622	1.622	1.00
76	31:37	1.00	0.970	1.00	80.00	80.00	0.754	0.754	1.00
77	32:25	1.00	0.994	1.00	80.00	80.00	1.144	1.144	1.00
78	36:04	1.00	1.106	1.00	80.00	80.00	0.648	0.648	1.00
79	36:20	1.00	1.115	1.00	80.00	80.00	0.549	0.549	1.00
80	36:52	1.00	1.131	1.00	80.00	80.00	0.583	0.583	1.00

RIC
11/30/93 10:58:00
SAMPLE: SSTD050
CONDS.: INST. 001
RANGE: G 1,2400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 50BA1130 #1
CALI: 50BA1130 #3

SCANS 200 TO 2400



1351

Quantitation Report File: 50BA1130

Data: 50BA1130.TI
11/30/93 10:58:00
Sample: SSTD050
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT. STD.)***
2	CI40 D8-NAPHTHALENE***(INT. STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT. STD.)***
5	CI70 D12-CHRYSENE***(INT. STD.)***
6	CI75 D12-PERYLENE***(INT. STD.)***
7	CS50 2-FLUOROPHENOL***(SURR. STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR. STD.)***
9	CS45 D5-PHENOL***(SURR. STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR. STD)***
11	CS20 D5-NITROBENZENE***(SURR. STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR. STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR. STD.)***
14	CS30 D14-TERPHENYL***(SURR. STD.)***
15	C315 PHENOL
16	C325 BIS(2-CHLOROETHYL) ETHER
17	C330 2-CHLOROPHENOL
18	C335 1,3-DICHLOROBENZENE
19	C340 1,4-DICHLOROBENZENE
20	C345 BENZYL ALCOHOL
21	C350 1,2-DICHLOROBENZENE
22	C355 2-METHYLPHENOL
23	C360 2,2'-OXYBIS(1-CHLOROPROPANE)
24	C365 4-METHYLPHENOL
25	C370 N-NITROSO-DI-N-PROPYLAMINE
26	C375 HEXACHLOROETHANE
27	C410 NITROBENZENE
28	C415 ISOPHRONE
29	C420 2-NITROPHENOL
30	C425 2,4-DIMETHYLPHENOL
31	C430 BENZOIC ACID
32	C435 BIS(2-CHLOROETHOXY) METHANE
33	C440 2,4-DICHLOROPHENOL
34	C445 1,2,4-TRICHLOROBENZENE
35	C450 NAPHTHALENE
36	C455 4-CHLOROANILINE
37	C460 HEXACHLOROBUTADIENE
38	C465 4-CHLORO-3-METHYLPHENOL
39	C470 2-METHYLNAPHTHALENE
40	C510 HEXACHLOROCYCLOPENTADIENE
41	C515 2,4,6-TRICHLOROPHENOL
42	C520 2,4,5-TRICHLOROPHENOL
43	C525 2-CHLORONAPHTHALENE
44	C530 2-NITROANILINE
45	C535 DIMETHYLPHTHALATE
46	C540 ACENAPHTYLENE
47	C545 3-NITROANILINE

No	Name
48	C550 ACENAPHTHENE
49	C555 2,4-DINITROPHENOL
50	C560 4-NITROPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	420	7:00	1	1.000	A BB	13374.	40.000	NG/UL	1.02
2	136	643	10:43	2	1.000	A BB	49782.	40.000	NG/UL	1.02
3	164	957	15:57	3	1.000	A BB	30095.	40.000	NG/UL	1.02
4	188	1215	20:15	4	1.000	A BB	44944.	40.000	NG/UL	1.02
5	240	1698	28:18	5	1.000	A BB	44485.	40.000	NG/UL	1.02
6	264	1956	32:36	6	1.000	A BB	35661.	40.000	NG/UL	1.02
7	112	217	3:37	1	0.517	A BB	24243.	50.000	NG/UL	1.27
8	132	389	6:29	1	0.926	A BB	21564.	50.000	NG/UL	1.27
9	99	397	6:37	1	0.945	A BB	29993.	50.000	NG/UL	1.27
10	152	451	7:31	1	1.074	A BB	13769.	50.000	NG/UL	1.27
11	82	524	8:44	2	0.815	A BB	22896.	50.000	NG/UL	1.27
12	172	851	14:11	3	0.889	A BB	42050.	50.000	NG/UL	1.27
13	330	1100	18:20	3	1.149	A BB	6602.	50.000	NG/UL	1.27
14	244	1523	25:23	5	0.897	A BB	47654.	50.000	NG/UL	1.27
15	94	400	6:40	1	0.952	A BB	29257.	50.000	NG/UL	1.27
16	93	396	6:36	1	0.943	A BB	26740.	50.000	NG/UL	1.27
17	128	392	6:32	1	0.933	A BB	21042.	50.000	NG/UL	1.27
18	146	412	6:52	1	0.981	A BB	23732.	50.000	NG/UL	1.27
19	146	422	7:02	1	1.005	A BB	24464.	50.000	NG/UL	1.27
20	108	463	7:43	1	1.102	A BB	14491.	50.000	NG/UL	1.27
21	146	453	7:33	1	1.079	A BB	23466.	50.000	NG/UL	1.27
22	108	499	8:19	1	1.188	A BB	21163.	50.000	NG/UL	1.27
23	45	494	8:14	1	1.176	A BB	46682.	50.000	NG/UL	1.27
24	108	528	8:48	1	1.257	A BB	21812.	50.000	NG/UL	1.27
25	70	518	8:38	1	1.233	A BV	20217.	50.000	NG/UL	1.27
26	117	506	8:26	1	1.205	A BB	8844.	50.000	NG/UL	1.27
27	77	527	8:47	2	0.820	A BB	32211.	50.000	NG/UL	1.27
28	82	574	9:34	2	0.893	A BB	48950.	50.000	NG/UL	1.27
29	139	584	9:44	2	0.908	A BB	11311.	50.000	NG/UL	1.27
30	107	618	10:18	2	0.961	A BB	18589.	50.000	NG/UL	1.27
31	122	663	11:03	2	1.031	M XX	8024.	50.000	NG/UL	1.27
32	93	630	10:30	2	0.980	A BB	33222.	50.000	NG/UL	1.27
33	162	632	10:32	2	0.983	A BB	16450.	50.000	NG/UL	1.27
34	180	641	10:41	2	0.997	A BB	18668.	50.000	NG/UL	1.27
35	128	647	10:47	2	1.006	A BB	62047.	50.000	NG/UL	1.27
36	127	672	11:12	2	1.045	A BB	28125.	50.000	NG/UL	1.27
37	225	691	11:31	2	1.075	A BB	9425.	50.000	NG/UL	1.27
38	107	777	12:57	2	1.208	A BB	17240.	50.000	NG/UL	1.27
39	142	772	12:52	2	1.201	A BV	45182.	50.000	NG/UL	1.27
40	237	819	13:39	3	0.856	A BB	11727.	50.000	NG/UL	1.27
41	196	836	13:56	3	0.874	A BV	11925.	50.000	NG/UL	1.27
42	196	841	14:01	3	0.879	A VB	12529.	50.000	NG/UL	1.27
43	162	856	14:16	3	0.894	A BB	40341.	50.000	NG/UL	1.27
44	65	890	14:50	3	0.930	A BB	13319.	50.000	NG/UL	1.27
45	163	943	15:43	3	0.985	A BB	47994.	50.000	NG/UL	1.27
46	152	928	15:28	3	0.970	A BB	63916.	50.000	NG/UL	1.27
47	138	965	16:05	3	1.008	A BB	11870.	50.000	NG/UL	1.27
48	153	963	16:03	3	1.006	A BB	37327.	50.000	NG/UL	1.27
49	184	982	16:22	3	1.026	A BB	5713.	50.000	NG/UL	1.27
50	109	1016	16:56	3	1.062	A BB	3270.	50.000	NG/UL	1.27

11.30.93

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	15:57	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	20:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	28:18	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	32:36	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:37	1.00	0.517	1.00	50.00	50.00	1.450	1.450	1.00
8	6:29	1.00	0.926	1.00	50.00	50.00	1.290	1.290	1.00
9	6:37	1.00	0.945	1.00	50.00	50.00	1.794	1.794	1.00
10	7:31	1.00	1.074	1.00	50.00	50.00	0.824	0.824	1.00
11	8:44	1.00	0.815	1.00	50.00	50.00	0.368	0.368	1.00
12	14:11	1.00	0.889	1.00	50.00	50.00	1.118	1.118	1.00
13	18:20	1.00	1.149	1.00	50.00	50.00	0.175	0.175	1.00
14	25:23	1.00	0.897	1.00	50.00	50.00	0.857	0.857	1.00
15	6:40	1.00	0.952	1.00	50.00	50.00	1.750	1.750	1.00
16	6:36	1.00	0.943	1.00	50.00	50.00	1.600	1.600	1.00
17	6:32	1.00	0.933	1.00	50.00	50.00	1.259	1.259	1.00
18	6:52	1.00	0.981	1.00	50.00	50.00	1.420	1.420	1.00
19	7:02	1.00	1.005	1.00	50.00	50.00	1.463	1.463	1.00
20	7:43	1.00	1.102	1.00	50.00	50.00	0.867	0.867	1.00
21	7:33	1.00	1.079	1.00	50.00	50.00	1.404	1.404	1.00
22	8:19	1.00	1.188	1.00	50.00	50.00	1.266	1.266	1.00
23	8:14	1.00	1.176	1.00	50.00	50.00	2.792	2.792	1.00
24	8:48	1.00	1.257	1.00	50.00	50.00	1.305	1.305	1.00
25	8:38	1.00	1.233	1.00	50.00	50.00	1.209	1.209	1.00
26	8:26	1.00	1.205	1.00	50.00	50.00	0.529	0.529	1.00
27	8:47	1.00	0.820	1.00	50.00	50.00	0.518	0.518	1.00
28	9:34	1.00	0.893	1.00	50.00	50.00	0.787	0.787	1.00
29	9:44	1.00	0.908	1.00	50.00	50.00	0.182	0.182	1.00
30	10:18	1.00	0.961	1.00	50.00	50.00	0.299	0.299	1.00
31	11:03	1.00	1.031	1.00	50.00	50.00	0.129	0.129	1.00
32	10:30	1.00	0.980	1.00	50.00	50.00	0.534	0.534	1.00
33	10:32	1.00	0.983	1.00	50.00	50.00	0.264	0.264	1.00
34	10:41	1.00	0.997	1.00	50.00	50.00	0.300	0.300	1.00
35	10:47	1.00	1.006	1.00	50.00	50.00	0.997	0.997	1.00
36	11:12	1.00	1.045	1.00	50.00	50.00	0.452	0.452	1.00
37	11:31	1.00	1.075	1.00	50.00	50.00	0.151	0.151	1.00
38	12:57	1.00	1.208	1.00	50.00	50.00	0.277	0.277	1.00
39	12:52	1.00	1.201	1.00	50.00	50.00	0.726	0.726	1.00
40	13:39	1.00	0.856	1.00	50.00	50.00	0.312	0.312	1.00
41	13:56	1.00	0.874	1.00	50.00	50.00	0.317	0.317	1.00
42	14:01	1.00	0.879	1.00	50.00	50.00	0.333	0.333	1.00
43	14:16	1.00	0.894	1.00	50.00	50.00	1.072	1.072	1.00
44	14:50	1.00	0.930	1.00	50.00	50.00	0.354	0.354	1.00
45	15:43	1.00	0.985	1.00	50.00	50.00	1.276	1.276	1.00
46	15:28	1.00	0.970	1.00	50.00	50.00	1.699	1.699	1.00
47	16:05	1.00	1.008	1.00	50.00	50.00	0.316	0.316	1.00
48	16:03	1.00	1.006	1.00	50.00	50.00	0.992	0.992	1.00
49	16:22	1.00	1.026	1.00	50.00	50.00	0.152	0.152	1.00
50	16:56	1.00	1.062	1.00	50.00	50.00	0.087	0.087	1.00

Quantitation Report File: 50BA1130

Data: 50BA1130.TI
11/30/93 10:58:00
Sample: SSTD050
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	C565 DIBENZOFURAN
52	C570 2,4-DINITROTOLUENE
53	C543 2,6-DINITROTOLUENE
54	C580 DIETHYL PHTHALATE
55	C585 4-CHLOROPHENYL PHENYLETHER
56	C590 FLUORENE
57	C595 4-NITROANILINE
58	C610 4,6-DINITRO-2-METHYLPHENOL
59	C615 N-NITROSODIPHENYLAMINE
60	C625 4-BROMOPHENYL PHENYLETHER
61	C630 HEXACHLOROBENZENE
62	C635 PENTACHLOROPHENOL
63	C640 PHENANTHRENE
64	C645 ANTHRACENE
65	C646 CARBAZOLE
66	C650 DI-N-BUTYL PHTHALATE
67	C655 FLUORANTHENE
68	C715 PYRENE
69	C720 BUTYL BENZYL PHTHALATE
70	C725 3,3'-DICHLOROBENZIDINE
71	C730 BENZO(A) ANTHRACENE
72	C745 BIS(2-ETHYLHEXYL) PHTHALATE
73	C740 CHRYSENE
74	C760 DI-N-OCTYL PHTHALATE
75	C765 BENZO(B) FLUORANTHENE
76	C770 BENZO(K) FLUORANTHENE
77	C775 BENZO(A) PYRENE
78	C780 INDENO(1,2,3-CD) PYRENE
79	C785 DIBENZ(A,H) ANTHRACENE
80	C790 BENZO(GHI) PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	168	993	16:33	3	1.038	A BB	56265.	50.000 NG/UL	1.27
52	165	1012	16:52	3	1.057	A BB	13534.	50.000 NG/UL	1.27
53	165	947	15:47	3	0.990	A BB	10770.	50.000 NG/UL	1.27
54	149	1075	17:55	3	1.123	A VB	45887.	50.000 NG/UL	1.27
55	204	1067	17:47	3	1.115	A BB	24291.	50.000 NG/UL	1.27
56	166	1053	17:33	3	1.100	A BB	43762.	50.000 NG/UL	1.27
57	138	1076	17:56	3	1.124	A VB	9610.	50.000 NG/UL	1.27
58	198	1083	18:03	4	0.891	A BB	7300.	50.000 NG/UL	1.27
59	169	1092	18:12	4	0.899	A VB	29052.	50.000 NG/UL	1.27
60	248	1151	19:11	4	0.947	A BB	13639.	50.000 NG/UL	1.27
61	284	1165	19:25	4	0.959	A BB	12913.	50.000 NG/UL	1.27
62	266	1203	20:03	4	0.990	A BB	7278.	50.000 NG/UL	1.27
63	178	1219	20:19	4	1.003	A VV	59973.	50.000 NG/UL	1.27

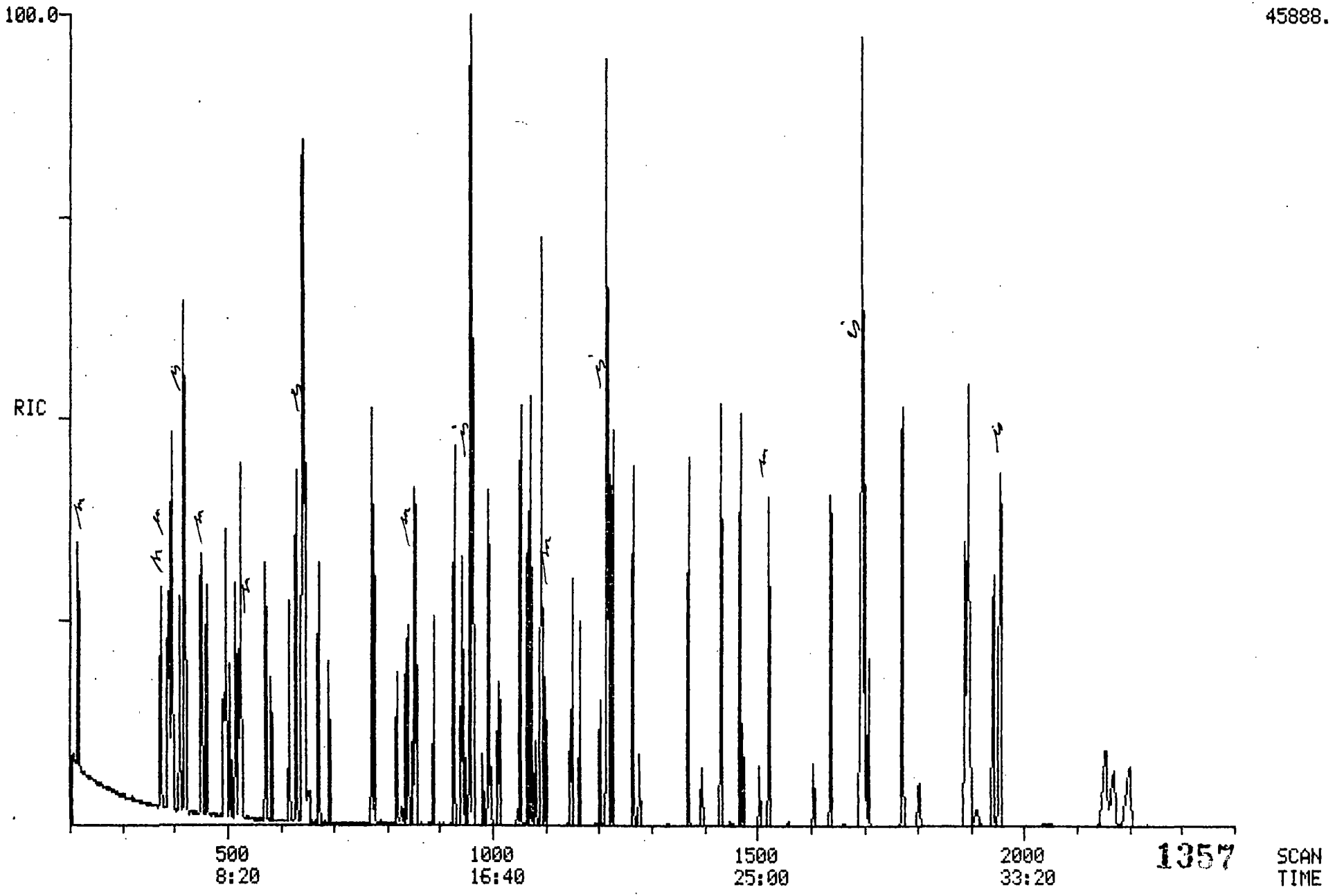
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
64	178	1227	20:27	4	1.010	A VB	55898.	50.000 NG/UL	1.27
65	167	1267	21:07	4	1.043	A BB	56365.	50.000 NG/UL	1.27
66	149	1371	22:51	4	1.128	A BB	87633.	50.000 NG/UL	1.27
67	202	1432	23:52	4	1.179	A BB	63568.	50.000 NG/UL	1.27
68	202	1469	24:29	5	0.865	A VB	63038.	50.000 NG/UL	1.27
69	149	1639	27:19	5	0.965	A BB	37202.	50.000 NG/ML	1.27
70	252	1710	28:30	5	1.007	A BB	16060.	50.000 NG/UL	1.27
71	228	1695	28:15	5	0.998	A BV	63986.	50.000 NG/UL	1.27
72	149	1772	29:32	5	1.044	A BB	57803.	50.000 NG/UL	1.27
73	228	1702	28:22	5	1.002	A VB	44224.	50.000 NG/UL	1.27
74	149	1899	31:39	6	0.971	A BB	95536.	50.000 NG/UL	1.27
75	252	1892	31:32	6	0.967	A BV	68127.	50.000 NG/UL	1.27
76	252	1897	31:37	6	0.970	A VB	45061.	50.000 NG/UL	1.27
77	252	1945	32:25	6	0.994	A BB	57366.	50.000 NG/UL	1.27
78	276	2164	36:04	6	1.106	A BB	34519.	50.000 NG/UL	1.27
79	278	2180	36:20	6	1.115	A BB	38163.	50.000 NG/UL	1.27
80	276	2212	36:52	6	1.131	A BB	26894.	50.000 NG/UL	1.27

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	16:33	1.00	1.038	1.00	50.00	50.00	1.496	1.496	1.00
52	16:52	1.00	1.057	1.00	50.00	50.00	0.360	0.360	1.00
53	15:47	1.00	0.990	1.00	50.00	50.00	0.286	0.286	1.00
54	17:55	1.00	1.123	1.00	50.00	50.00	1.220	1.220	1.00
55	17:47	1.00	1.115	1.00	50.00	50.00	0.646	0.646	1.00
56	17:33	1.00	1.100	1.00	50.00	50.00	1.163	1.163	1.00
57	17:56	1.00	1.124	1.00	50.00	50.00	0.255	0.255	1.00
58	18:03	1.00	0.891	1.00	50.00	50.00	0.130	0.130	1.00
59	18:12	1.00	0.899	1.00	50.00	50.00	0.517	0.517	1.00
60	19:11	1.00	0.947	1.00	50.00	50.00	0.243	0.243	1.00
61	19:25	1.00	0.959	1.00	50.00	50.00	0.230	0.230	1.00
62	20:03	1.00	0.990	1.00	50.00	50.00	0.130	0.130	1.00
63	20:19	1.00	1.003	1.00	50.00	50.00	1.068	1.068	1.00
64	20:27	1.00	1.010	1.00	50.00	50.00	0.995	0.995	1.00
65	21:07	1.00	1.043	1.00	50.00	50.00	1.003	1.003	1.00
66	22:51	1.00	1.128	1.00	50.00	50.00	1.560	1.560	1.00
67	23:52	1.00	1.179	1.00	50.00	50.00	1.132	1.132	1.00
68	24:29	1.00	0.865	1.00	50.00	50.00	1.134	1.134	1.00
69	27:19	1.00	0.965	1.00	50.00	50.00	0.669	0.669	1.00
70	28:30	1.00	1.007	1.00	50.00	50.00	0.289	0.289	1.00
71	28:15	1.00	0.998	1.00	50.00	50.00	1.151	1.151	1.00
72	29:32	1.00	1.044	1.00	50.00	50.00	1.040	1.040	1.00
73	28:22	1.00	1.002	1.00	50.00	50.00	0.795	0.795	1.00
74	31:39	1.00	0.971	1.00	50.00	50.00	2.143	2.143	1.00
75	31:32	1.00	0.967	1.00	50.00	50.00	1.528	1.528	1.00
76	31:37	1.00	0.970	1.00	50.00	50.00	1.011	1.011	1.00
77	32:25	1.00	0.994	1.00	50.00	50.00	1.287	1.287	1.00
78	36:04	1.00	1.106	1.00	50.00	50.00	0.774	0.774	1.00
79	36:20	1.00	1.115	1.00	50.00	50.00	0.856	0.856	1.00
80	36:52	1.00	1.131	1.00	50.00	50.00	0.603	0.603	1.00

RIC
11/30/93 11:44:00
SAMPLE: SSTD020
CONDS.: INST. 001
RANGE: G 1,2400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 20BA1130 #1
CALI: 20BA1130 #3

SCANS 200 TO 2400



1357

Quantitation Report File: 20BA1130

Data: 20BA1130.TI
11/30/93 11:44:00
Sample: SSTD020
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT. STD.)***
2	CI40 D8-NAPHTHALENE***(INT. STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT. STD.)***
5	CI70 D12-CHRYSENE***(INT. STD.)***
6	CI75 D12-PERYLENE***(INT. STD.)***
7	CS50 2-FLUOROPHENOL***(SURR. STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR. STD.)***
9	CS45 D5-PHENOL***(SURR. STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR. STD)***
11	CS20 D5-NITROBENZENE***(SURR. STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR. STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR. STD.)***
14	CS30 D14-TERPHENYL***(SURR. STD.)***
15	C315 PHENOL
16	C325 BIS(2-CHLOROETHYL) ETHER
17	C330 2-CHLOROPHENOL
18	C335 1,3-DICHLOROBENZENE
19	C340 1,4-DICHLOROBENZENE
20	C345 BENZYL ALCOHOL
21	C350 1,2-DICHLOROBENZENE
22	C355 2-METHYLPHENOL
23	C360 2,2'-OXYBIS(1-CHLOROPROPANE)
24	C365 4-METHYLPHENOL
25	C370 N-NITROSO-DI-N-PROPYLAMINE
26	C375 HEXACHLOROETHANE
27	C410 NITROBENZENE
28	C415 ISOPHRONE
29	C420 2-NITROPHENOL
30	C425 2,4-DIMETHYLPHENOL
31	C430 BENZOIC ACID
32	C435 BIS(2-CHLOROETHOXY) METHANE
33	C440 2,4-DICHLOROPHENOL
34	C445 1,2,4-TRICHLOROBENZENE
35	C450 NAPHTHALENE
36	C455 4-CHLOROANILINE
37	C460 HEXACHLOROBUTADIENE
38	C465 4-CHLORO-3-METHYLPHENOL
39	C470 2-METHYLNAPHTHALENE
40	C510 HEXACHLOROCYCLOPENTADIENE
41	C515 2,4,6-TRICHLOROPHENOL
42	C520 2,4,5-TRICHLOROPHENOL
43	C525 2-CHLORONAPHTHALENE
44	C530 2-NITROANILINE
45	C535 DIMETHYLPHTHALATE
46	C540 ACENAPHTYLENE
47	C545 3-NITROANILINE

No	Name
48	C550 ACENAPHTHENE
49	C555 2,4-DINITROPHENOL
50	C560 4-NITROPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	420	7:00	1	1.000	A BB	13524.	40.000 NG/UL	2.33
2	136	643	10:43	2	1.000	A BB	49439.	40.000 NG/UL	2.33
3	164	958	15:58	3	1.000	A BB	28706.	40.000 NG/UL	2.33
4	188	1216	20:16	4	1.000	A BB	42504.	40.000 NG/UL	2.33
5	240	1698	28:18	5	1.000	A BB	44512.	40.000 NG/UL	2.33
6	264	1956	32:36	6	1.000	A BB	35351.	40.000 NG/UL	2.33
7	112	217	3:37	1	0.517	A BB	10644.	20.000 NG/UL	1.16
8	132	389	6:29	1	0.926	A BB	9500.	20.000 NG/UL	1.16
9	99	396	6:36	1	0.943	A BB	13135.	20.000 NG/UL	1.16
10	152	451	7:31	1	1.074	A BB	5507.	20.000 NG/UL	1.16
11	82	523	8:43	2	0.813	A BB	9185.	20.000 NG/UL	1.16
12	172	851	14:11	3	0.888	A BB	17017.	20.000 NG/UL	1.16
13	330	1100	18:20	3	1.148	A BB	3087.	20.000 NG/UL	1.16
14	244	1523	25:23	5	0.897	A BB	19060.	20.000 NG/UL	1.16
15	94	398	6:38	1	0.948	A BB	11215.	20.000 NG/UL	1.16
16	93	396	6:36	1	0.943	A BB	10819.	20.000 NG/UL	1.16
17	128	392	6:32	1	0.933	A BB	8446.	20.000 NG/UL	1.16
18	146	412	6:52	1	0.981	A BB	9422.	20.000 NG/UL	1.16
19	146	422	7:02	1	1.005	A BB	9974.	20.000 NG/UL	1.16
20	108	462	7:42	1	1.100	A BB	5533.	20.000 NG/UL	1.16
21	146	453	7:33	1	1.079	A BB	9314.	20.000 NG/UL	1.16
22	108	499	8:19	1	1.188	A BB	8502.	20.000 NG/UL	1.16
23	45	494	8:14	1	1.176	A BB	18535.	20.000 NG/UL	1.16
24	108	527	8:47	1	1.255	A BB	8563.	20.000 NG/UL	1.16
25	70	517	8:37	1	1.231	A BB	7748.	20.000 NG/UL	1.16
26	117	506	8:26	1	1.205	A BB	3410.	20.000 NG/UL	1.16
27	77	526	8:46	2	0.818	A BB	12527.	20.000 NG/UL	1.16
28	82	573	9:33	2	0.891	A BB	19683.	20.000 NG/UL	1.16
29	139	584	9:44	2	0.908	A BB	4217.	20.000 NG/UL	1.16
30	107	617	10:17	2	0.960	A BB	7158.	20.000 NG/UL	1.16
31	122	653	10:53	2	1.016	M XX 11-30-93	4033.	20.000 NG/UL	1.16
32	93	630	10:30	2	0.980	A BB	13101.	20.000 NG/UL	1.16
33	162	631	10:31	2	0.981	A BB	6282.	20.000 NG/UL	1.16
34	180	641	10:41	2	0.997	A BB	7228.	20.000 NG/UL	1.16
35	128	646	10:46	2	1.005	A BB	24555.	20.000 NG/UL	1.16
36	127	672	11:12	2	1.045	A BB	10945.	20.000 NG/UL	1.16
37	225	692	11:32	2	1.076	A BB	3655.	20.000 NG/UL	1.16
38	107	777	12:57	2	1.208	A BB	6890.	20.000 NG/UL	1.16
39	142	772	12:52	2	1.201	A BV	17785.	20.000 NG/UL	1.16
40	237	819	13:39	3	0.855	A BB	4403.	20.000 NG/UL	1.16
41	196	836	13:56	3	0.873	A BV	4377.	20.000 NG/UL	1.16
42	196	841	14:01	3	0.878	A VB	5222.	20.000 NG/UL	1.16
43	162	855	14:15	3	0.892	A BB	15608.	20.000 NG/UL	1.16
44	65	889	14:49	3	0.928	A BB	5044.	20.000 NG/UL	1.16
45	163	942	15:42	3	0.983	A BB	18897.	20.000 NG/UL	1.16
46	152	927	15:27	3	0.968	A BB	25394.	20.000 NG/UL	1.16
47	138	964	16:04	3	1.006	A BB	4555.	20.000 NG/UL	1.16
48	153	963	16:03	3	1.005	A BB	15025.	20.000 NG/UL	1.16
49	184	981	16:21	3	1.024	A BB	1948.	20.000 NG/UL	1.16
50	109	1015	16:55	3	1.059	A BB	1355.	20.000 NG/UL	1.16

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	15:57	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	20:15	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	28:18	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	32:36	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:37	1.00	0.517	1.00	20.00	20.00	1.574	1.574	1.00
8	6:29	1.00	0.926	1.00	20.00	20.00	1.405	1.405	1.00
9	6:37	1.00	0.945	1.00	20.00	20.00	1.942	1.942	1.00
10	7:31	1.00	1.074	1.00	20.00	20.00	0.814	0.814	1.00
11	8:44	1.00	0.815	1.00	20.00	20.00	0.372	0.372	1.00
12	14:11	1.00	0.889	1.00	20.00	20.00	1.186	1.186	1.00
13	18:20	1.00	1.149	1.00	20.00	20.00	0.215	0.215	1.00
14	25:23	1.00	0.897	1.00	20.00	20.00	0.856	0.856	1.00
15	6:40	0.99	0.952	0.99	20.00	20.00	1.659	1.659	1.00
16	6:36	1.00	0.943	1.00	20.00	20.00	1.600	1.600	1.00
17	6:32	1.00	0.933	1.00	20.00	20.00	1.249	1.249	1.00
18	6:52	1.00	0.981	1.00	20.00	20.00	1.393	1.393	1.00
19	7:02	1.00	1.005	1.00	20.00	20.00	1.475	1.475	1.00
20	7:43	1.00	1.102	1.00	20.00	20.00	0.818	0.818	1.00
21	7:33	1.00	1.079	1.00	20.00	20.00	1.377	1.377	1.00
22	8:19	1.00	1.188	1.00	20.00	20.00	1.257	1.257	1.00
23	8:14	1.00	1.176	1.00	20.00	20.00	2.741	2.741	1.00
24	8:48	1.00	1.257	1.00	20.00	20.00	1.266	1.266	1.00
25	8:38	1.00	1.233	1.00	20.00	20.00	1.146	1.146	1.00
26	8:26	1.00	1.205	1.00	20.00	20.00	0.504	0.504	1.00
27	8:47	1.00	0.820	1.00	20.00	20.00	0.507	0.507	1.00
28	9:34	1.00	0.893	1.00	20.00	20.00	0.796	0.796	1.00
29	9:44	1.00	0.908	1.00	20.00	20.00	0.171	0.171	1.00
30	10:18	1.00	0.961	1.00	20.00	20.00	0.290	0.290	1.00
31	11:03	0.98	1.031	0.98	20.00	20.00	0.163	0.163	1.00
32	10:30	1.00	0.980	1.00	20.00	20.00	0.530	0.530	1.00
33	10:32	1.00	0.983	1.00	20.00	20.00	0.254	0.254	1.00
34	10:41	1.00	0.997	1.00	20.00	20.00	0.292	0.292	1.00
35	10:47	1.00	1.006	1.00	20.00	20.00	0.993	0.993	1.00
36	11:12	1.00	1.045	1.00	20.00	20.00	0.443	0.443	1.00
37	11:31	1.00	1.075	1.00	20.00	20.00	0.148	0.148	1.00
38	12:57	1.00	1.208	1.00	20.00	20.00	0.279	0.279	1.00
39	12:52	1.00	1.201	1.00	20.00	20.00	0.719	0.719	1.00
40	13:39	1.00	0.856	1.00	20.00	20.00	0.307	0.307	1.00
41	13:56	1.00	0.874	1.00	20.00	20.00	0.305	0.305	1.00
42	14:01	1.00	0.879	1.00	20.00	20.00	0.364	0.364	1.00
43	14:16	1.00	0.894	1.00	20.00	20.00	1.087	1.087	1.00
44	14:50	1.00	0.930	1.00	20.00	20.00	0.351	0.351	1.00
45	15:43	1.00	0.985	1.00	20.00	20.00	1.317	1.317	1.00
46	15:28	1.00	0.970	1.00	20.00	20.00	1.769	1.769	1.00
47	16:05	1.00	1.008	1.00	20.00	20.00	0.317	0.317	1.00
48	16:03	1.00	1.006	1.00	20.00	20.00	1.047	1.047	1.00
49	16:22	1.00	1.026	1.00	20.00	20.00	0.136	0.136	1.00
50	16:56	1.00	1.062	1.00	20.00	20.00	0.094	0.094	1.00

Quantitation Report File: 20BA1130

Data: 20BA1130.TI
11/30/93 11:44:00
Sample: SSTD020
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	C565 DIBENZOFURAN
52	C570 2,4-DINITROTOLUENE
53	C543 2,6-DINITROTOLUENE
54	C580 DIETHYL PHTHALATE
55	C585 4-CHLOROPHENYL PHENYLETHER
56	C590 FLUORENE
57	C595 4-NITROANILINE
58	C610 4,6-DINITRO-2-METHYLPHENOL
59	C615 N-NITROSODIPHENYLAMINE
60	C625 4-BROMOPHENYL PHENYLETHER
61	C630 HEXACHLOROBENZENE
62	C635 PENTACHLOROPHENOL
63	C640 PHENANTHRENE
64	C645 ANTHRACENE
65	C646 CARBAZOLE
66	C650 DI-N-BUTYL PHTHALATE
67	C655 FLUORANTHENE
68	C715 PYRENE
69	C720 BUTYL BENZYL PHTHALATE
70	C725 3,3'-DICHLOROBENZIDINE
71	C730 BENZO(A) ANTHRACENE
72	C745 BIS(2-ETHYLHEXYL) PHTHALATE
73	C740 CHRYSENE
74	C760 DI-N-OCTYL PHTHALATE
75	C765 BENZO(B) FLUORANTHENE
76	C770 BENZO(K) FLUORANTHENE
77	C775 BENZO(A) PYRENE
78	C780 INDENO(1,2,3-CD) PYRENE
79	C785 DIBENZ(A,H) ANTHRACENE
80	C790 BENZO(GHI) PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	168	992	16:32	3	1.035	A BB	22075.	20.000 NG/UL	1.16
52	165	1011	16:51	3	1.055	A BB	5144.	20.000 NG/UL	1.16
53	165	946	15:46	3	0.987	A BB	4003.	20.000 NG/UL	1.16
54	149	1073	17:53	3	1.120	A BB	19073.	20.000 NG/UL	1.16
55	204	1067	17:47	3	1.114	A BB	9420.	20.000 NG/UL	1.16
56	166	1053	17:33	3	1.099	A BB	17245.	20.000 NG/UL	1.16
57	138	1073	17:53	3	1.120	A BB	3318.	20.000 NG/UL	1.16
58	198	1081	18:01	4	0.889	A BB	2795.	20.000 NG/UL	1.16
59	169	1092	18:12	4	0.898	A BB	12027.	20.000 NG/UL	1.16
60	248	1151	19:11	4	0.947	A BB	5268.	20.000 NG/UL	1.16
61	284	1165	19:25	4	0.958	A BB	5048.	20.000 NG/UL	1.16
62	266	1203	20:03	4	0.989	A BB	2923.	20.000 NG/UL	1.16
63	178	1219	20:19	4	1.002	A BV	23748.	20.000 NG/UL	1.16

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
64	178	1227	20:27	4	1.009	A VB	22964.	20.000	NG/UL	1.16
65	167	1266	21:06	4	1.041	A BB	23038.	20.000	NG/UL	1.16
66	149	1370	22:50	4	1.127	A BB	35549.	20.000	NG/UL	1.16
67	202	1432	23:52	4	1.178	A BB	24758.	20.000	NG/UL	1.16
68	202	1468	24:28	5	0.865	A BB	25129.	20.000	NG/UL	1.16
69	149	1638	27:18	5	0.965	A BB	14828.	20.000	NG/ML	1.16
70	252	1709	28:29	5	1.006	A BB	7789.	20.000	NG/UL	1.16
71	228	1694	28:14	5	0.998	A BV	24897.	20.000	NG/UL	1.16
72	149	1772	29:32	5	1.044	A BB	22785.	20.000	NG/UL	1.16
73	228	1701	28:21	5	1.002	A VB	18542.	20.000	NG/UL	1.16
74	149	1897	31:37	6	0.970	A BB	37304.	20.000	NG/UL	1.16
75	252	1890	31:30	6	0.966	A BV	25562.	20.000	NG/UL	1.16
76	252	1895	31:35	6	0.969	A VB	21537.	20.000	NG/UL	1.16
77	252	1943	32:23	6	0.993	A BB	22750.	20.000	NG/UL	1.16
78	276	2156	35:56	6	1.102	A BV	19322.	20.000	NG/UL	1.16
79	278	2170	36:10	6	1.109	A BB	15467.	20.000	NG/UL	1.16
80	276	2201	36:41	6	1.125	A BB	17005.	20.000	NG/UL	1.16

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	16:33	1.00	1.038	1.00	20.00	20.00	1.538	1.538	1.00
52	16:52	1.00	1.057	1.00	20.00	20.00	0.358	0.358	1.00
53	15:47	1.00	0.990	1.00	20.00	20.00	0.279	0.279	1.00
54	17:55	1.00	1.123	1.00	20.00	20.00	1.329	1.329	1.00
55	17:47	1.00	1.115	1.00	20.00	20.00	0.656	0.656	1.00
56	17:33	1.00	1.100	1.00	20.00	20.00	1.201	1.201	1.00
57	17:56	1.00	1.124	1.00	20.00	20.00	0.231	0.231	1.00
58	18:03	1.00	0.891	1.00	20.00	20.00	0.132	0.132	1.00
59	18:12	1.00	0.899	1.00	20.00	20.00	0.566	0.566	1.00
60	19:11	1.00	0.947	1.00	20.00	20.00	0.248	0.248	1.00
61	19:25	1.00	0.959	1.00	20.00	20.00	0.238	0.238	1.00
62	20:03	1.00	0.990	1.00	20.00	20.00	0.138	0.138	1.00
63	20:19	1.00	1.003	1.00	20.00	20.00	1.117	1.117	1.00
64	20:27	1.00	1.010	1.00	20.00	20.00	1.081	1.081	1.00
65	21:07	1.00	1.043	1.00	20.00	20.00	1.084	1.084	1.00
66	22:51	1.00	1.128	1.00	20.00	20.00	1.673	1.673	1.00
67	23:52	1.00	1.179	1.00	20.00	20.00	1.165	1.165	1.00
68	24:29	1.00	0.865	1.00	20.00	20.00	1.129	1.129	1.00
69	27:19	1.00	0.965	1.00	20.00	20.00	0.666	0.666	1.00
70	28:30	1.00	1.007	1.00	20.00	20.00	0.350	0.350	1.00
71	28:15	1.00	0.998	1.00	20.00	20.00	1.119	1.119	1.00
72	29:32	1.00	1.044	1.00	20.00	20.00	1.024	1.024	1.00
73	28:22	1.00	1 002	1.00	20.00	20.00	0.833	0.833	1.00
74	31:39	1.00	0.971	1.00	20.00	20.00	2.110	2.110	1.00
75	31:32	1.00	0.967	1.00	20.00	20.00	1.446	1.446	1.00
76	31:37	1.00	0.970	1.00	20.00	20.00	1.218	1.218	1.00
77	32:25	1.00	0.994	1.00	20.00	20.00	1.287	1.287	1.00
78	36:04	1.00	1.106	1.00	20.00	20.00	1.093	1.093	1.00
79	36:20	1.00	1 115	1.00	20.00	20.00	0.875	0.875	1.00
80	36:52	1.00	1.131	1.00	20.00	20.00	0.962	0.962	1.00

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 001 Calibration date: 12/01/93 Time: 1817

Lab File ID: 50BA1201A1 Init. Calib. Date(s): 11/30/93 11/30/93

Init. Calib. Times: 1058 1402

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.706	1.506	0.800	11.7	25.0
bis(2-Chloroethyl)Ether	1.612	1.372	0.700	14.9	25.0
2-Chlorophenol	1.285	1.131	0.800	12.0	25.0
1,3-Dichlorobenzene	1.444	1.310	0.600	9.3	25.0
1,4-Dichlorobenzene	1.493	1.337	0.500	10.4	25.0
1,2-Dichlorobenzene	1.411	1.278	0.400	9.4	25.0
2-Methylphenol	1.270	1.104	0.700	13.1	25.0
2,2'-oxybis(1-Chloropropane)	2.788	2.681		3.8	
4-Methylphenol	1.312	1.142	0.600	13.0	25.0
N-Nitroso-Di-n-Propylamine	1.296	1.085	0.500	16.3	25.0
Hexachloroethane	0.537	0.472	0.300	12.1	25.0
Nitrobenzene	0.515	0.475	0.200	7.8	25.0
Isophorone	0.788	0.720	0.400	8.6	25.0
2-Nitrophenol	0.186	0.164	0.100	11.8	25.0
2,4-Dimethylphenol	0.300	0.261	0.200	13.0	25.0
bis(2-Chloroethoxy)Methane	0.537	0.491	0.300	8.6	25.0
2,4-Dichlorophenol	0.263	0.237	0.200	9.9	25.0
1,2,4-Trichlorobenzene	0.300	0.272	0.200	9.3	25.0
Naphthalene	0.998	0.970	0.700	2.8	25.0
4-Chloroaniline	0.465	0.423		9.0	
Hexachlorobutadiene	0.154	0.139		9.7	
4-Chloro-3-Methylphenol	0.281	0.254	0.200	9.6	25.0
2-Methylnaphthalene	0.750	0.640	0.400	14.7	25.0
Hexachlorocyclopentadiene	0.330	0.318		3.6	
2,4,6-Trichlorophenol	0.353	0.329	0.200	6.8	25.0
2,4,5-Trichlorophenol	0.323	0.351	0.200	-8.7	25.0
2-Chloronaphthalene	1.104	1.067	0.800	3.4	25.0
2-Nitroaniline	0.372	0.372		0.0	
Dimethylphthalate	1.282	1.237		3.5	
Acenaphthylene	1.762	1.680	1.300	4.7	25.0
2,6-Dinitrotoluene	0.300	0.268	0.200	10.7	25.0
3-Nitroaniline	0.320	0.307		4.1	
Acenaphthene	1.028	0.994	0.800	3.3	25.0
2,4-Dinitrophenol	0.167	0.112		32.9	
4-Nitrophenol	0.092	0.073		20.6	
Dibenzofuran	1.533	1.476	0.800	3.7	25.0
2,4-Dinitrotoluene	0.365	0.336	0.200	7.9	25.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 001 Calibration date: 12/01/93 Time: 1817

Lab File ID: 50BA1201A1 Init. Calib. Date(s): 11/30/93 11/30/93

Init. Calib. Times: 1058 1402

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.244	1.241		0.2	
4-Chlorophenyl-phenylether	0.658	0.625	0.400	5.0	25.0
Fluorene	1.192	1.123	0.900	5.8	25.0
4-Nitroaniline	0.268	0.249		7.1	
4,6-Dinitro-2-Methylphenol	0.133	0.106		20.3	
N-Nitrosodiphenylamine (1)	0.562	0.583		-3.7	
4-Bromophenyl-phenylether	0.252	0.255	0.100	-1.2	25.0
Hexachlorobenzene	0.240	0.251	0.100	-4.6	25.0
Pentachlorophenol	0.142	0.110	0.050	22.5	25.0
Phenanthrene	1.121	1.231	0.700	-9.8	25.0
Anthracene	1.009	1.112	0.700	-10.2	25.0
Carbazole	0.990	1.035		-4.5	
Di-n-Butylphthalate	1.611	1.587		1.5	
Fluoranthene	1.113	1.100	0.600	1.2	25.0
Pyrene	1.205	1.130	0.600	6.2	25.0
Butylbenzylphthalate	0.709	0.656		7.5	
3,3'-Dichlorobenzidine	0.327	0.348		-6.4	
Benzo(A) anthracene	1.154	1.187	0.800	-2.9	25.0
Chrysene	0.825	0.752	0.700	8.8	25.0
bis(2-Ethylhexyl)Phthalate	1.084	1.026		5.4	
Di-n-Octylphthalate	2.040	2.261		-10.8	
Benzo(b)Fluoranthene	1.506	1.681	0.700	-11.6	25.0
Benzo(k)Fluoranthene	0.979	1.002	0.700	-2.3	25.0
Benzo(a)Pyrene	1.190	1.309	0.700	-10.0	25.0
Indeno(1,2,3-cd)Pyrene	0.774	0.894	0.500	-15.5	25.0
Dibenz(a,h)Anthracene	0.681	0.743	0.400	-9.1	25.0
Benzo(g,h,i)Perylene	0.691	0.603	0.500	12.7	25.0
Nitrobenzene-d5	0.377	0.346	0.200	8.2	25.0
2-Fluorobiphenyl	1.180	1.113	0.700	5.7	25.0
Terphenyl-d14	0.909	0.842	0.500	7.4	25.0
Phenol-d5	1.887	1.675	0.800	11.2	25.0
2-Fluorophenol	1.544	1.258	0.600	18.5	25.0
2,4,6-Tribromophenol	0.191	0.180		5.8	
2-Chlorophenol-d4	1.352	1.211	0.800	10.4	25.0
1,2-Dichlorobenzene-d4	0.842	0.818	0.400	2.8	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 001 Calibration date: 12/02/93 Time: 1213

Lab File ID: 50BA1202 Init. Calib. Date(s): 11/30/93 11/30/93

Init. Calib. Times: 1058 1402

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.706	1.589	0.800	6.9	25.0
bis(2-Chloroethyl)Ether	1.612	1.422	0.700	11.8	25.0
2-Chlorophenol	1.285	1.153	0.800	10.3	25.0
1,3-Dichlorobenzene	1.444	1.317	0.600	8.8	25.0
1,4-Dichlorobenzene	1.493	1.362	0.500	8.8	25.0
1,2-Dichlorobenzene	1.411	1.310	0.400	7.2	25.0
2-Methylphenol	1.270	1.173	0.700	7.6	25.0
2,2'-oxybis(1-Chloropropane)	2.788	2.727		2.2	
4-Methylphenol	1.312	1.210	0.600	7.8	25.0
N-Nitroso-Di-n-Propylamine	1.296	1.153	0.500	11.0	25.0
Hexachloroethane	0.537	0.502	0.300	6.5	25.0
Nitrobenzene	0.515	0.552	0.200	-7.2	25.0
Isophorone	0.788	0.825	0.400	-4.7	25.0
2-Nitrophenol	0.186	0.181	0.100	2.7	25.0
2,4-Dimethylphenol	0.300	0.301	0.200	-0.3	25.0
bis(2-Chloroethoxy)Methane	0.537	0.557	0.300	-3.7	25.0
2,4-Dichlorophenol	0.263	0.262	0.200	0.4	25.0
1,2,4-Trichlorobenzene	0.300	0.303	0.200	-1.0	25.0
Naphthalene	0.998	1.018	0.700	-2.0	25.0
4-Chloroaniline	0.465	0.483		-3.9	
Hexachlorobutadiene	0.154	0.159		-3.2	
4-Chloro-3-Methylphenol	0.281	0.296	0.200	-5.3	25.0
2-Methylnaphthalene	0.750	0.737	0.400	1.7	25.0
Hexachlorocyclopentadiene	0.330	0.334		-1.2	
2,4,6-Trichlorophenol	0.353	0.314	0.200	11.0	25.0
2,4,5-Trichlorophenol	0.323	0.362	0.200	-12.1	25.0
2-Chloronaphthalene	1.104	1.129	0.800	-2.3	25.0
2-Nitroaniline	0.372	0.396		-6.5	
Dimethylphthalate	1.282	1.330		-3.7	
Acenaphthylene	1.762	1.755	1.300	0.4	25.0
2,6-Dinitrotoluene	0.300	0.302	0.200	-0.7	25.0
3-Nitroaniline	0.320	0.310		3.1	
Acenaphthene	1.028	1.072	0.800	-4.3	25.0
2,4-Dinitrophenol	0.167	0.119		28.7	
4-Nitrophenol	0.092	0.087		5.4	
Dibenzofuran	1.533	1.561	0.800	-1.8	25.0
2,4-Dinitrotoluene	0.365	0.349	0.200	4.4	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 001 Calibration date: 12/02/93 Time: 1213

Lab File ID: 50BA1202 Init. Calib. Date(s): 11/30/93 11/30/93

Init. Calib. Times: 1058 1402

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.244	1.294		-4.0	
4-Chlorophenyl-phenylether	0.658	0.666	0.400	-1.2	25.0
Fluorene	1.192	1.171	0.900	1.8	25.0
4-Nitroaniline	0.268	0.237		11.6	
4,6-Dinitro-2-Methylphenol	0.133	0.110		17.3	
N-Nitrosodiphenylamine (1)	0.562	0.567		-0.9	
4-Bromophenyl-phenylether	0.252	0.262	0.100	-4.0	25.0
Hexachlorobenzene	0.240	0.254	0.100	-5.8	25.0
Pentachlorophenol	0.142	0.095	0.050	33.1	25.0
Phenanthrene	1.121	1.103	0.700	1.6	25.0
Anthracene	1.009	1.001	0.700	0.8	25.0
Carbazole	0.990	0.992		-0.2	
Di-n-Butylphthalate	1.611	1.680		-4.3	
Fluoranthene	1.113	1.095	0.600	1.6	25.0
Pyrene	1.205	1.077	0.600	10.6	25.0
Butylbenzylphthalate	0.709	0.728		-2.7	
3,3'-Dichlorobenzidine	0.327	0.296		9.5	
Benzo(A) anthracene	1.154	1.134	0.800	1.7	25.0
Chrysene	0.825	0.749	0.700	9.2	25.0
bis(2-Ethylhexyl)Phthalate	1.084	1.148		-5.9	
Di-n-Octylphthalate	2.040	2.631		-29.0	
Benzo(b)Fluoranthene	1.506	1.927	0.700	-28.0	25.0
Benzo(k)Fluoranthene	0.979	0.874	0.700	10.7	25.0
Benzo(a)Pyrene	1.190	1.327	0.700	-11.5	25.0
Indeno(1,2,3-cd)Pyrene	0.774	0.649	0.500	16.2	25.0
Dibenz(a,h)Anthracene	0.681	0.533	0.400	21.7	25.0
Benzo(g,h,i)Perylene	0.691	0.661	0.500	4.3	25.0
Nitrobenzene-d5	0.377	0.397	0.200	-5.3	25.0
2-Fluorobiphenyl	1.180	1.160	0.700	1.7	25.0
Terphenyl-d14	0.909	0.825	0.500	9.2	25.0
Phenol-d5	1.887	1.653	0.800	12.4	25.0
2-Fluorophenol	1.544	1.301	0.600	15.7	25.0
2,4,6-Tribromophenol	0.191	0.193		-1.0	
2-Chlorophenol-d4	1.352	1.153	0.800	14.7	25.0
1,2-Dichlorobenzene-d4	0.842	0.840	0.400	0.2	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 001 Calibration date: 12/03/93 Time: 1616

Lab File ID: 50BA1203 Init. Calib. Date(s): 11/30/93 11/30/93

Init. Calib. Times: 1058 1402

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.706	1.663	0.800	2.5	25.0
bis(2-Chloroethyl)Ether	1.612	1.536	0.700	4.7	25.0
2-Chlorophenol	1.285	1.233	0.800	4.0	25.0
1,3-Dichlorobenzene	1.444	1.403	0.600	2.8	25.0
1,4-Dichlorobenzene	1.493	1.463	0.500	2.0	25.0
1,2-Dichlorobenzene	1.411	1.388	0.400	1.6	25.0
2-Methylphenol	1.270	1.237	0.700	2.6	25.0
2,2'-oxybis(1-Chloropropane)	2.788	2.893		-3.8	
4-Methylphenol	1.312	1.244	0.600	5.2	25.0
N-Nitroso-Di-n-Propylamine	1.296	1.175	0.500	9.3	25.0
Hexachloroethane	0.537	0.512	0.300	4.7	25.0
Nitrobenzene	0.515	0.528	0.200	-2.5	25.0
Isophorone	0.788	0.805	0.400	-2.2	25.0
2-Nitrophenol	0.186	0.165	0.100	11.3	25.0
2,4-Dimethylphenol	0.300	0.297	0.200	1.0	25.0
bis(2-Chloroethoxy)Methane	0.537	0.544	0.300	-1.3	25.0
2,4-Dichlorophenol	0.263	0.240	0.200	8.7	25.0
1,2,4-Trichlorobenzene	0.300	0.293	0.200	2.3	25.0
Naphthalene	0.998	0.994	0.700	0.4	25.0
4-Chloroaniline	0.465	0.459		1.3	
Hexachlorobutadiene	0.154	0.148		3.9	
4-Chloro-3-Methylphenol	0.281	0.284	0.200	-1.1	25.0
2-Methylnaphthalene	0.750	0.691	0.400	7.9	25.0
Hexachlorocyclopentadiene	0.330	0.304		7.9	
2,4,6-Trichlorophenol	0.353	0.294	0.200	16.7	25.0
2,4,5-Trichlorophenol	0.323	0.350	0.200	-8.4	25.0
2-Chloronaphthalene	1.104	1.115	0.800	-1.0	25.0
2-Nitroaniline	0.372	0.388		-4.3	
Dimethylphthalate	1.282	1.322		-3.1	
Acenaphthylene	1.762	1.730	1.300	1.8	25.0
2,6-Dinitrotoluene	0.300	0.295	0.200	1.7	25.0
3-Nitroaniline	0.320	0.301		5.9	
Acenaphthene	1.028	1.051	0.800	-2.2	25.0
2,4-Dinitrophenol	0.167	0.102		38.9	
4-Nitrophenol	0.092	0.079		14.1	
Dibenzofuran	1.533	1.517	0.800	1.0	25.0
2,4-Dinitrotoluene	0.365	0.362	0.200	0.8	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 001 Calibration date: 12/03/93 Time: 1616

Lab File ID: 50BA1203 Init. Calib. Date(s): 11/30/93 11/30/93

Init. Calib. Times: 1058 1402

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.244	1.346		-8.2	
4-Chlorophenyl-phenylether	0.658	0.649	0.400	1.4	25.0
Fluorene	1.192	1.135	0.900	4.8	25.0
4-Nitroaniline	0.268	0.238		11.2	
4,6-Dinitro-2-Methylphenol	0.133	0.101		24.1	
N-Nitrosodiphenylamine (1)	0.562	0.579		-3.0	
4-Bromophenyl-phenylether	0.252	0.244	0.100	3.2	25.0
Hexachlorobenzene	0.240	0.229	0.100	4.6	25.0
Pentachlorophenol	0.142	0.095	0.050	33.1	25.0
Phenanthrene	1.121	1.042	0.700	7.0	25.0
Anthracene	1.009	1.023	0.700	-1.4	25.0
Carbazole	0.990	0.975		1.5	
Di-n-Butylphthalate	1.611	1.688		-4.8	
Fluoranthene	1.113	1.075	0.600	3.4	25.0
Pyrene	1.205	1.148	0.600	4.7	25.0
Butylbenzylphthalate	0.709	0.717		-1.1	
3,3'-Dichlorobenzidine	0.327	0.256		21.7	
Benzo(A) anthracene	1.154	1.143	0.800	1.0	25.0
Chrysene	0.825	0.755	0.700	8.5	25.0
bis(2-Ethylhexyl)Phthalate	1.084	1.129		-4.2	
Di-n-Octylphthalate	2.040	2.111		-3.5	
Benzo(b)Fluoranthene	1.506	1.664	0.700	-10.5	25.0
Benzo(k)Fluoranthene	0.979	0.704	0.700	28.1	25.0
Benzo(a)Pyrene	1.190	1.136	0.700	4.5	25.0
Indeno(1,2,3-cd)Pyrene	0.774	0.765	0.500	1.2	25.0
Dibenz(a,h)Anthracene	0.681	0.613	0.400	10.0	25.0
Benzo(g,h,i)Perylene	0.691	0.574	0.500	16.9	25.0
Nitrobenzene-d5	0.377	0.388	0.200	-2.9	25.0
2-Fluorobiphenyl	1.180	1.192	0.700	-1.0	25.0
Terphenyl-d14	0.909	0.826	0.500	9.1	25.0
Phenol-d5	1.887	1.747	0.800	7.4	25.0
2-Fluorophenol	1.544	1.497	0.600	3.0	25.0
2,4,6-Tribromophenol	0.191	0.187		2.1	
2-Chlorophenol-d4	1.352	1.246	0.800	7.8	25.0
1,2-Dichlorobenzene-d4	0.842	0.850	0.400	-1.0	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 025 Calibration date: 11/24/93 Time: 1141

Lab File ID: 50BY1124Y Init. Calib. Date(s): 11/20/93 11/20/93

Init. Calib. Times: 1247 1551

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.796	1.867	0.800	-4.0	25.0
bis(2-Chloroethyl)Ether	1.408	1.410	0.700	-0.1	25.0
2-Chlorophenol	1.373	1.413	0.800	-2.9	25.0
1,3-Dichlorobenzene	1.495	1.516	0.600	-1.4	25.0
1,4-Dichlorobenzene	1.533	1.523	0.500	0.7	25.0
1,2-Dichlorobenzene	1.398	1.442	0.400	-3.1	25.0
2-Methylphenol	1.151	1.199	0.700	-4.2	25.0
2,2'-oxybis(1-Chloropropane)	1.411	1.279		9.4	
4-Methylphenol	1.227	1.256	0.600	-2.4	25.0
N-Nitroso-Di-n-Propylamine	1.146	1.029	0.500	10.2	25.0
Hexachloroethane	0.632	0.623	0.300	1.4	25.0
Nitrobenzene	0.663	0.557	0.200	16.0	25.0
Isophorone	0.874	0.798	0.400	8.7	25.0
2-Nitrophenol	0.219	0.211	0.100	3.7	25.0
2,4-Dimethylphenol	0.371	0.337	0.200	9.2	25.0
bis(2-Chloroethoxy)Methane	0.488	0.474	0.300	2.9	25.0
2,4-Dichlorophenol	0.310	0.303	0.200	2.3	25.0
1,2,4-Trichlorobenzene	0.339	0.321	0.200	5.3	25.0
Naphthalene	1.108	1.086	0.700	2.0	25.0
4-Chloroaniline	0.473	0.428		9.5	
Hexachlorobutadiene	0.160	0.152		5.0	
4-Chloro-3-Methylphenol	0.316	0.326	0.200	-3.2	25.0
2-Methylnaphthalene	0.691	0.688	0.400	0.4	25.0
Hexachlorocyclopentadiene	0.315	0.198		37.1	
2,4,6-Trichlorophenol	0.413	0.373	0.200	9.7	25.0
2,4,5-Trichlorophenol	0.379	0.362	0.200	4.5	25.0
2-Chloronaphthalene	1.193	1.098	0.800	8.0	25.0
2-Nitroaniline	0.516	0.400		22.5	
Dimethylphthalate	1.313	1.256		4.3	
Acenaphthylene	1.951	1.827	1.300	6.4	25.0
2,6-Dinitrotoluene	0.328	0.319	0.200	2.7	25.0
3-Nitroaniline	0.401	0.338		15.7	
Acenaphthene	1.043	0.989	0.800	5.2	25.0
2,4-Dinitrophenol	0.205	0.193		5.9	
4-Nitrophenol	0.257	0.157		38.9	
Dibenzofuran	1.629	1.556	0.800	4.5	25.0
2,4-Dinitrotoluene	0.410	0.394	0.200	3.9	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 025 Calibration date: 11/24/93 Time: 1141

Lab File ID: 50BY1124Y Init. Calib. Date(s): 11/20/93 11/20/93

Init. Calib. Times: 1247 1551

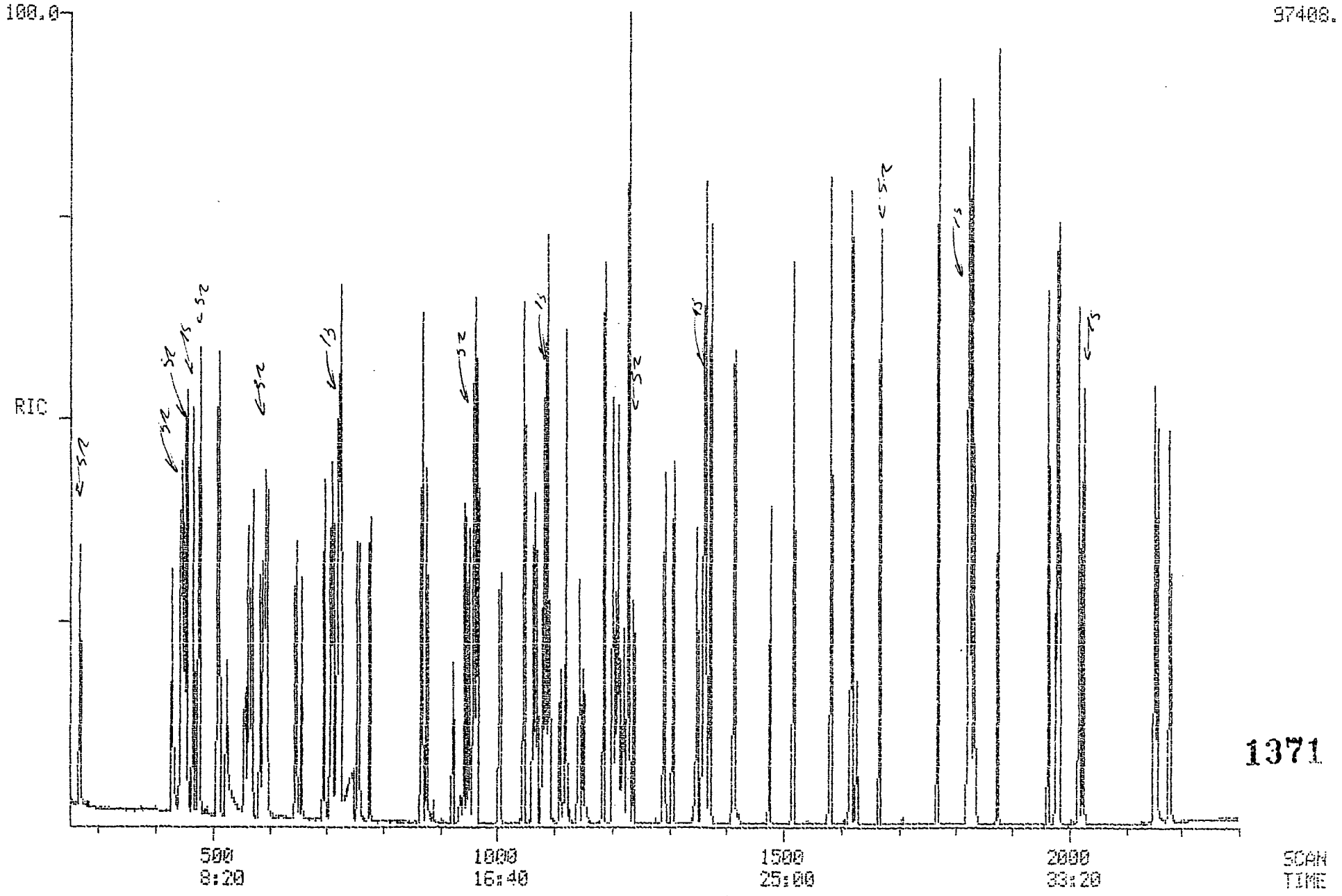
COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	0.969	1.318		-36.0	
4-Chlorophenyl-phenylether	0.596	0.588	0.400	1.3	25.0
Fluorene	1.326	1.291	0.900	2.6	25.0
4-Nitroaniline	0.363	0.308		15.2	
4,6-Dinitro-2-Methylphenol	0.162	0.156		3.7	
N-Nitrosodiphenylamine (1)	0.559	0.504		9.8	
4-Bromophenyl-phenylether	0.198	0.208	0.100	-5.1	25.0
Hexachlorobenzene	0.210	0.241	0.100	-14.8	25.0
Pentachlorophenol	0.155	0.171	0.050	-10.3	25.0
Phenanthrene	1.241	1.141	0.700	8.1	25.0
Anthracene	1.247	1.136	0.700	8.9	25.0
Carbazole	1.217	1.077		11.5	
Di-n-Butylphthalate	1.590	1.497		5.8	
Fluoranthene	1.288	1.286	0.600	0.2	25.0
Pyrene	1.587	1.395	0.600	12.1	25.0
Butylbenzylphthalate	0.881	0.682		22.6	
3,3'-Dichlorobenzidine	0.461	0.360		21.9	
Benzo(A) anthracene	1.484	1.282	0.800	13.6	25.0
Chrysene	1.163	0.965	0.700	17.0	25.0
bis(2-Ethylhexyl)Phthalate	1.223	0.793		35.2	
Di-n-Octylphthalate	2.658	1.223		54.0	
Benzo(b)Fluoranthene	1.493	1.456	0.700	2.5	25.0
Benzo(k)Fluoranthene	1.216	1.343	0.700	-10.4	25.0
Benzo(a)Pyrene	1.193	1.167	0.700	2.2	25.0
Indeno(1,2,3-cd)Pyrene	0.746	0.874	0.500	-17.2	25.0
Dibenz(a,h)Anthracene	0.736	0.837	0.400	-13.7	25.0
Benzo(g,h,i)Perylene	0.652	0.826	0.500	-26.7	25.0
Nitrobenzene-d5	0.504	0.434	0.200	13.9	25.0
2-Fluorobiphenyl	1.325	1.216	0.700	8.2	25.0
Terphenyl-d14	1.015	0.918	0.500	9.6	25.0
Phenol-d5	1.720	1.751	0.800	-1.8	25.0
2-Fluorophenol	1.711	1.251	0.600	26.9	25.0
2,4,6-Tribromophenol	0.137	0.183		-33.6	
2-Chlorophenol-d4	1.354	1.398	0.800	-3.2	25.0
1,2-Dichlorobenzene-d4	0.922	0.920	0.400	0.2	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

RIC
11/24/93 11:41:00
SAMPLE: SSTD050
CONDS.: INST. 025 (40F2T0180@STO310@10H9)
RANGE: G 1,2300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 50BY1124Y #1
CALI: 50BY1124Y #3

SCANS 250 TO 2300



1371

Quantitation Report File: 50BY1124Y

Data: 50BY1124Y.TI
11/24/93 11:41:00
Sample: SSTD050
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.000
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT.STD.)***
2	CI40 D8-NAPHTHALENE***(INT.STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT.STD.)****
5	CI70 D12-CHRYSENE***(INT.STD.)***
6	CI75 D12-PERYLENE***(INT.STD.)***
7	CS50 2-FLUOROPHENOL***(SURR.STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR.STD)***
9	CS45 D6-PHENOL***(SURR.STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR.STD)***
11	CS20 D5-NITROBENZENE***(SURR.STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR.STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR.STD.)***
14	CS30 D14-TERPHENYL***(SURR.STD.)***
15	C315 PHENOL
16	C325 BIS(2-CHLOROETHYL) ETHER
17	C330 2-CHLOROPHENOL
18	C335 1,3-DICHLOROBENZENE
19	C340 1,4-DICHLOROBENZENE
20	C345 BENZYL ALCOHOL
21	C350 1,2-DICHLOROBENZENE
22	C355 2-METHYLPHENOL
23	C360 2,2'-OXYBIS(1-CHLOROPROPANE)
24	C365 4-METHYLPHENOL
25	C370 N-NITROSO-DI-N-PROPYLAMINE
26	C375 HEXACHLOROETHANE
27	C410 NITROBENZENE
28	C415 ISOPHORONE
29	C420 2-NITROPHENOL
30	C425 2,4-DIMETHYLPHENOL
31	C435 BIS(2-CHLOROETHOXY) METHANE
32	C440 2,4-DICHLOROPHENOL
33	C445 1,2,4-TRICHLOROBENZENE
34	C450 NAPHTHALENE
35	C455 4-CHLOROANILINE
36	C460 HEXACHLOROBUTADIENE
37	C465 4-CHLORO-3-METHYLPHENOL
38	C470 2-METHYLNAPHTHALENE
39	C510 HEXACHLOROCYCLOPENTADIENE
40	C515 2,4,6-TRICHLOROPHENOL
41	C520 2,4,5-TRICHLOROPHENOL
42	C525 2-CHLORONAPHTHALENE
43	C530 2-NITROANILINE
44	C535 DIMETHYLPHTHALATE
45	C540 ACENAPHTHYLENE
46	C545 3-NITROANILINE
47	C550 ACENAPHTHENE

No	Name
48	C555 2,4-DINITROPHENOL
49	C560 4-NITROPHENOL
50	C565 DIBENZOFURAN

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	476	7:56	1	1.000	A BB	18528.	40.000	NG/UL	1.03
2	136	724	12:04	2	1.000	A BB	66080.	40.000	NG/UL	1.03
3	164	1081	18:01	3	1.000	A BB	39260.	40.000	NG/UL	1.03
4	188	1361	22:41	4	1.000	A BB	62831.	40.000	NG/UL	1.03
5	240	1825	30:25	5	1.000	A BB	58877.	40.000	NG/UL	1.03
6	264	2027	33:47	6	1.000	A BB	45748.	40.000	NG/UL	1.03
7	112	268	4:28	1	0.563	A BB	28977.	50.000	NG/UL	1.29
8	132	444	7:24	1	0.933	A BB	32379.	50.000	NG/UL	1.29
9	99	454	7:34	1	0.954	A BB	40560.	50.000	NG/UL	1.29
10	152	510	8:30	1	1.071	A BB	21303.	50.000	NG/UL	1.29
11	82	590	9:50	2	0.815	A BB	35874.	50.000	NG/UL	1.29
12	172	960	16:00	3	0.888	A BB	59657.	50.000	NG/UL	1.29
13	330	1239	20:39	3	1.146	A BB	9004.	50.000	NG/UL	1.29
14	244	1669	27:49	5	0.915	A BB	67592.	50.000	NG/UL	1.29
15	94	456	7:36	1	0.958	A BB	43248.	50.000	NG/UL	1.29
16	93	450	7:30	1	0.945	A BB	32663.	50.000	NG/UL	1.29
17	128	447	7:27	1	0.939	A BB	32731.	50.000	NG/UL	1.29
18	146	467	7:47	1	0.981	A BB	35108.	50.000	NG/UL	1.29
19	146	479	7:59	1	1.006	A BB	35276.	50.000	NG/UL	1.29
20	108	525	8:45	1	1.103	A BB	15059.	50.000	NG/UL	1.29
21	146	512	8:32	1	1.076	A BB	33402.	50.000	NG/UL	1.29
22	108	565	9:25	1	1.187	A BB	27760.	50.000	NG/UL	1.29
23	45	556	9:16	1	1.168	A BB	29625.	50.000	NG/UL	1.29
24	108	596	9:56	1	1.252	A BB	29095.	50.000	NG/UL	1.29
25	70	584	9:44	1	1.227	A BV	23835.	50.000	NG/UL	1.29
26	117	570	9:30	1	1.197	A BB	14427.	50.000	NG/UL	1.29
27	77	594	9:54	2	0.820	A BB	46040.	50.000	NG/UL	1.29
28	82	647	10:47	2	0.894	A BV	65956.	50.000	NG/UL	1.29
29	139	658	10:58	2	0.909	A BB	17469.	50.000	NG/UL	1.29
30	107	696	11:36	2	0.961	A BB	27841.	50.000	NG/UL	1.29
31	93	709	11:49	2	0.979	A BB	39112.	50.000	NG/UL	1.29
32	162	712	11:52	2	0.983	A BB	25042.	50.000	NG/UL	1.29
33	180	721	12:01	2	0.996	A BB	26482.	50.000	NG/UL	1.29
34	128	727	12:07	2	1.004	A BB	89727.	50.000	NG/UL	1.29
35	127	757	12:37	2	1.046	A BB	35348.	50.000	NG/UL	1.29
36	225	778	12:58	2	1.075	A BB	12588.	50.000	NG/UL	1.29
37	107	878	14:38	2	1.213	A BB	26941.	50.000	NG/UL	1.29
38	142	870	14:30	2	1.202	A BV	56851.	50.000	NG/UL	1.29
39	237	923	15:23	3	0.854	A BB	9735.	50.000	NG/UL	1.29
40	196	943	15:43	3	0.872	A BV	18324.	50.000	NG/UL	1.29
41	196	950	15:50	3	0.879	A VB	17779.	50.000	NG/UL	1.29
42	162	965	16:05	3	0.893	A BB	53898.	50.000	NG/UL	1.29
43	65	1005	16:45	3	0.930	A BB	19622.	50.000	NG/UL	1.29
44	163	1064	17:44	3	0.984	A BB	61618.	50.000	NG/UL	1.29
45	152	1047	17:27	3	0.969	A BB	89647.	50.000	NG/UL	1.29
46	138	1091	18:11	3	1.009	A BB	16583.	50.000	NG/UL	1.29
47	153	1087	18:07	3	1.006	A BB	48543.	50.000	NG/UL	1.29
48	184	1110	18:30	3	1.027	A BB	9469.	50.000	NG/UL	1.29
49	109	1151	19:11	3	1.065	A BB	7719.	50.000	NG/UL	1.29
50	168	1121	18:41	3	1.037	A BB	76345.	50.000	NG/UL	1.29

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	18:01	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	22:41	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	30:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	33:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	4:28	1.00	0.563	1.00	50.00	50.00	1.251	1.251	1.00
8	7:24	1.00	0.933	1.00	50.00	50.00	1.398	1.398	1.00
9	7:34	1.00	0.954	1.00	50.00	50.00	1.751	1.751	1.00
10	8:30	1.00	1.071	1.00	50.00	50.00	0.920	0.920	1.00
11	9:50	1.00	0.815	1.00	50.00	50.00	0.434	0.434	1.00
12	16:00	1.00	0.888	1.00	50.00	50.00	1.216	1.216	1.00
13	20:39	1.00	1.146	1.00	50.00	50.00	0.183	0.183	1.00
14	27:49	1.00	0.915	1.00	50.00	50.00	0.918	0.918	1.00
15	7:36	1.00	0.958	1.00	50.00	50.00	1.867	1.867	1.00
16	7:30	1.00	0.945	1.00	50.00	50.00	1.410	1.410	1.00
17	7:27	1.00	0.939	1.00	50.00	50.00	1.413	1.413	1.00
18	7:47	1.00	0.981	1.00	50.00	50.00	1.516	1.516	1.00
19	7:59	1.00	1.006	1.00	50.00	50.00	1.523	1.523	1.00
20	8:45	1.00	1.103	1.00	50.00	50.00	0.650	0.650	1.00
21	8:32	1.00	1.076	1.00	50.00	50.00	1.442	1.442	1.00
22	9:25	1.00	1.187	1.00	50.00	50.00	1.199	1.199	1.00
23	9:16	1.00	1.168	1.00	50.00	50.00	1.279	1.279	1.00
24	9:56	1.00	1.252	1.00	50.00	50.00	1.256	1.256	1.00
25	9:44	1.00	1.227	1.00	50.00	50.00	1.029	1.029	1.00
26	9:30	1.00	1.197	1.00	50.00	50.00	0.623	0.623	1.00
27	9:54	1.00	0.820	1.00	50.00	50.00	0.557	0.557	1.00
28	10:47	1.00	0.894	1.00	50.00	50.00	0.798	0.798	1.00
29	10:58	1.00	0.909	1.00	50.00	50.00	0.211	0.211	1.00
30	11:36	1.00	0.961	1.00	50.00	50.00	0.337	0.337	1.00
31	11:49	1.00	0.979	1.00	50.00	50.00	0.474	0.474	1.00
32	11:52	1.00	0.983	1.00	50.00	50.00	0.303	0.303	1.00
33	12:01	1.00	0.996	1.00	50.00	50.00	0.321	0.321	1.00
34	12:07	1.00	1.004	1.00	50.00	50.00	1.086	1.086	1.00
35	12:37	1.00	1.046	1.00	50.00	50.00	0.428	0.428	1.00
36	12:58	1.00	1.075	1.00	50.00	50.00	0.152	0.152	1.00
37	14:38	1.00	1.213	1.00	50.00	50.00	0.326	0.326	1.00
38	14:30	1.00	1.202	1.00	50.00	50.00	0.688	0.688	1.00
39	15:23	1.00	0.854	1.00	50.00	50.00	0.198	0.198	1.00
40	15:43	1.00	0.872	1.00	50.00	50.00	0.373	0.373	1.00
41	15:50	1.00	0.879	1.00	50.00	50.00	0.362	0.362	1.00
42	16:05	1.00	0.893	1.00	50.00	50.00	1.098	1.098	1.00
43	16:45	1.00	0.930	1.00	50.00	50.00	0.400	0.400	1.00
44	17:44	1.00	0.984	1.00	50.00	50.00	1.256	1.256	1.00
45	17:27	1.00	0.969	1.00	50.00	50.00	1.827	1.827	1.00
46	18:11	1.00	1.009	1.00	50.00	50.00	0.338	0.338	1.00
47	18:07	1.00	1.006	1.00	50.00	50.00	0.989	0.989	1.00
48	18:30	1.00	1.027	1.00	50.00	50.00	0.193	0.193	1.00
49	19:11	1.00	1.065	1.00	50.00	50.00	0.157	0.157	1.00
50	18:41	1.00	1.037	1.00	50.00	50.00	1.556	1.556	1.00

Quantitation Report File: 50BY1124Y

Data: 50BY1124Y.TI
11/24/93 11:41:00
Sample: SSTD050
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.000
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	C570 2,4-DINITROTOLUENE
52	C543 2,6-DINITROTOLUENE
53	C580 DIETHYL PHTHALATE
54	C585 4-CHLOROPHENYL PHENYLETHER
55	C590 FLUORENE
56	C595 4-NITROANILINE
57	C610 4,6-DINITRO-2-METHYLPHENOL
58	C615 N-NITROSODIPHENYLAMINE
59	C625 4-BROMOPHENYL PHENYLETHER
60	C630 HEXACHLOROBENZENE
61	C635 PENTACHLOROPHENOL
62	C640 PHENANTHRENE
63	C645 ANTHRACENE
64	C646 CARBAZOLE
65	C650 DI-N-BUTYL PHTHALATE
66	C655 FLUORANTHENE
67	C715 PYRENE
68	C720 BUTYL BENZYL PHTHALATE
69	C725 3,3'-DICHLOROBENZIDINE
70	C730 BENZO(A) ANTHRACENE
71	C745 BIS(2-ETHYLHEXYL) PHTHALATE
72	C740 CHRYSENE
73	C760 DI-N-OCTYL PHTHALATE
74	C765 BENZO(B) FLUORANTHENE
75	C770 BENZO(K) FLUORANTHENE
76	C775 BENZO(A) PYRENE
77	C780 INDENO(1,2,3-CD) PYRENE
78	C785 DIBENZ(A,H) ANTHRACENE
79	C790 BENZO(GHI) PERYLENE

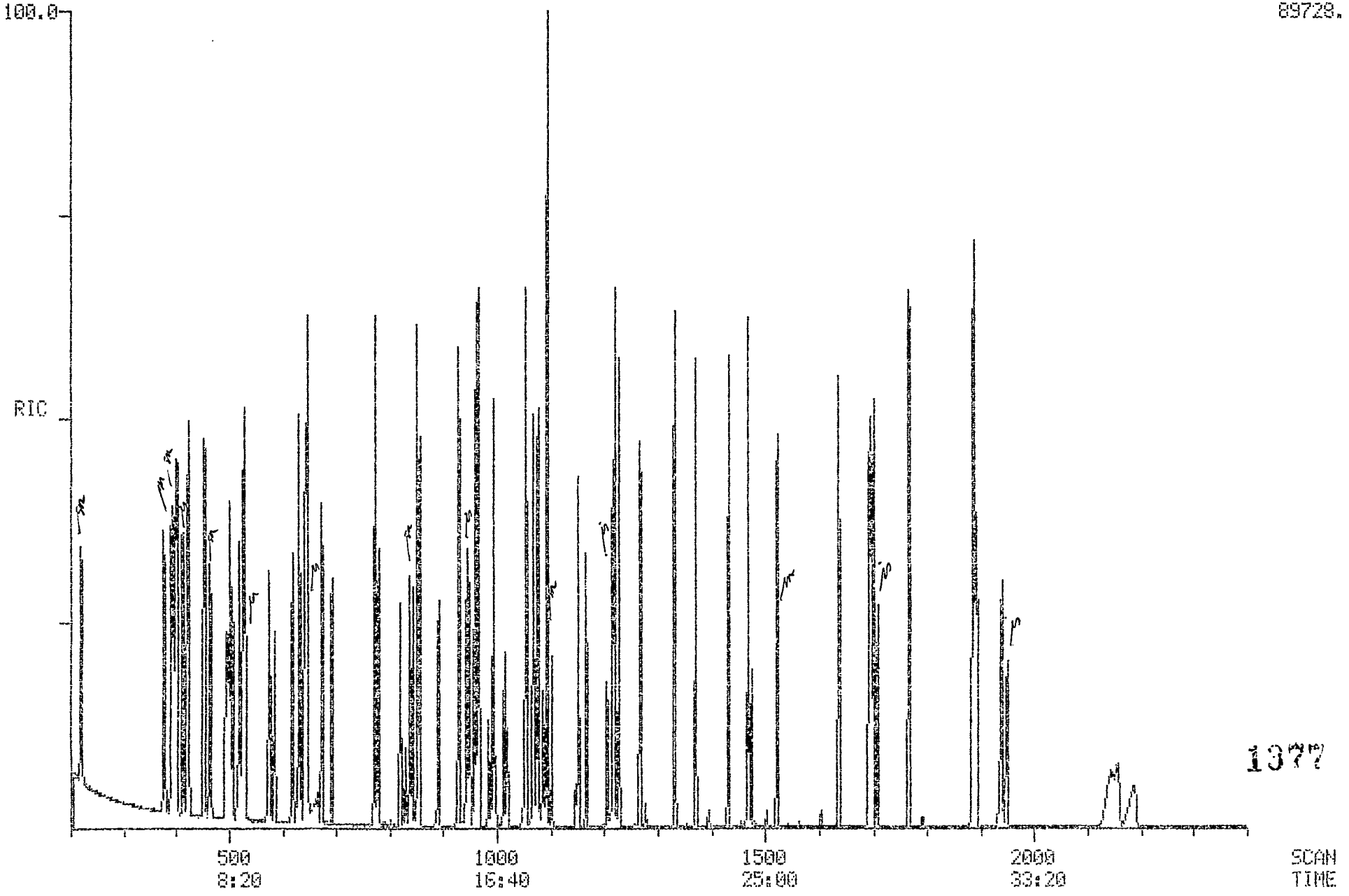
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	165	1143	19:03	3	1.057	A BB	19352.	50.000 NG/UL	1.29
52	165	1069	17:49	3	0.989	A BB	15674.	50.000 NG/UL	1.29
53	149	1211	20:11	3	1.120	A BB	64689.	50.000 NG/UL	1.29
54	204	1202	20:02	3	1.112	A BB	28861.	50.000 NG/UL	1.29
55	166	1188	19:48	3	1.099	A BB	63372.	50.000 NG/UL	1.29
56	138	1214	20:14	3	1.123	A BV	15139.	50.000 NG/UL	1.29
57	198	1221	20:21	4	0.897	A BB	12248.	50.000 NG/UL	1.29
58	169	1230	20:30	4	0.904	A BB	39621.	50.000 NG/UL	1.29
59	248	1292	21:32	4	0.949	A BB	16368.	50.000 NG/UL	1.29
60	284	1308	21:48	4	0.961	A BB	18935.	50.000 NG/UL	1.29
61	266	1349	22:29	4	0.991	A BB	13415.	50.000 NG/UL	1.29
62	178	1365	22:45	4	1.003	A BV	89620.	50.000 NG/UL	1.29
63	178	1373	22:53	4	1.009	A VB	89256.	50.000 NG/UL	1.29
64	167	1414	23:34	4	1.039	A BB	84569.	50.000 NG/UL	1.29

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
65	149	1518	25:18	4	1.115	A BB	117609.	50.000 NG/UL	1.29
66	202	1584	26:24	4	1.164	A BB	100969.	50.000 NG/UL	1.29
67	202	1619	26:59	5	0.887	A BB	102697.	50.000 NG/UL	1.29
68	149	1770	29:30	5	0.970	A BB	50217.	50.000 NG/ML	1.29
69	252	1833	30:33	5	1.004	A BB	26500.	50.000 NG/UL	1.29
70	228	1823	30:23	5	0.999	A BV	94337.	50.000 NG/UL	1.29
71	149	1875	31:15	5	1.027	A BB	58393.	50.000 NG/UL	1.29
72	228	1829	30:29	5	1.002	A VB	71048.	50.000 NG/UL	1.29
73	149	1964	32:44	6	0.969	A BB	69947.	50.000 NG/UL	1.29
74	252	1980	33:00	6	0.977	M XX MDW 11/29/93	83261.	50.000 NG/UL	1.29
75	252	1983	33:03	6	0.978	M XX	76819.	50.000 NG/UL	1.29
76	252	2020	33:40	6	0.997	A BB	66755.	50.000 NG/UL	1.29
77	276	2153	35:53	6	1.062	A BV	50002.	50.000 NG/UL	1.29
78	278	2157	35:57	6	1.064	A BB	47872.	50.000 NG/UL	1.29
79	276	2179	36:19	6	1.075	A BB	47245.	50.000 NG/UL	1.29

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	19:03	1.00	1.057	1.00	50.00	50.00	0.394	0.394	1.00
52	17:49	1.00	0.989	1.00	50.00	50.00	0.319	0.319	1.00
53	20:11	1.00	1.120	1.00	50.00	50.00	1.318	1.318	1.00
54	20:02	1.00	1.112	1.00	50.00	50.00	0.588	0.588	1.00
55	19:48	1.00	1.099	1.00	50.00	50.00	1.291	1.291	1.00
56	20:14	1.00	1.123	1.00	50.00	50.00	0.308	0.308	1.00
57	20:21	1.00	0.897	1.00	50.00	50.00	0.156	0.156	1.00
58	20:30	1.00	0.904	1.00	50.00	50.00	0.504	0.504	1.00
59	21:32	1.00	0.949	1.00	50.00	50.00	0.208	0.208	1.00
60	21:48	1.00	0.961	1.00	50.00	50.00	0.241	0.241	1.00
61	22:29	1.00	0.991	1.00	50.00	50.00	0.171	0.171	1.00
62	22:45	1.00	1.003	1.00	50.00	50.00	1.141	1.141	1.00
63	22:53	1.00	1.009	1.00	50.00	50.00	1.136	1.136	1.00
64	23:34	1.00	1.039	1.00	50.00	50.00	1.077	1.077	1.00
65	25:18	1.00	1.115	1.00	50.00	50.00	1.497	1.497	1.00
66	26:24	1.00	1.164	1.00	50.00	50.00	1.286	1.286	1.00
67	26:59	1.00	0.887	1.00	50.00	50.00	1.395	1.395	1.00
68	29:30	1.00	0.970	1.00	50.00	50.00	0.682	0.682	1.00
69	30:33	1.00	1.004	1.00	50.00	50.00	0.360	0.360	1.00
70	30:23	1.00	0.999	1.00	50.00	50.00	1.282	1.282	1.00
71	31:15	1.00	1.027	1.00	50.00	50.00	0.793	0.793	1.00
72	30:29	1.00	1.002	1.00	50.00	50.00	0.965	0.965	1.00
73	32:44	1.00	0.969	1.00	50.00	50.00	1.223	1.223	1.00
74	33:00	1.00	0.977	1.00	50.00	50.00	1.456	1.456	1.00
75	33:03	1.00	0.978	1.00	50.00	50.00	1.343	1.343	1.00
76	33:40	1.00	0.997	1.00	50.00	50.00	1.167	1.167	1.00
77	35:53	1.00	1.062	1.00	50.00	50.00	0.874	0.874	1.00
78	35:57	1.00	1.064	1.00	50.00	50.00	0.837	0.837	1.00
79	36:19	1.00	1.075	1.00	50.00	50.00	0.826	0.826	1.00

RIC
12/01/93 18:17:00
SAMPLE: SSTD050
CONDS.: INST. 001
RANGE: G 1,2400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 50BA1201A1 #1 SCANS 200 TO 2400
CALI: 50BA1201A1 #3



1377

Quantitation Report File: 50BA1201A1

Data: 50BA1201A1.TI
12/01/93 18:17:00
Sample: SSTD050
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT.STD.)***
2	CI40 D8-NAPHTHALENE***(INT.STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT.STD.)***
5	CI70 D12-CHRYSENE***(INT.STD.)***
6	CI75 D12-PERYLENE***(INT.STD.)***
7	CS50 2-FLUOROPHENOL***(SURR.STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR.STD.)***
9	CS45 D5-PHENOL***(SURR.STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR.STD)***
11	CS20 D5-NITROBENZENE***(SURR.STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR.STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR.STD.)***
14	CS30 D14-TERPHENYL***(SURR.STD.)***
15	C315 PHENOL
16	C325 BIS(2-CHLOROETHYL) ETHER
17	C330 2-CHLOROPHENOL
18	C335 1,3-DICHLOROBENZENE
19	C340 1,4-DICHLOROBENZENE
20	C345 BENZYL ALCOHOL
21	C350 1,2-DICHLOROBENZENE
22	C355 2-METHYLPHENOL
23	C360 2,2'-OXYBIS(1-CHLOROPROPANE)
24	C365 4-METHYLPHENOL
25	C370 N-NITROSO-DI-N-PROPYLAMINE
26	C375 HEXACHLOROETHANE
27	C410 NITROBENZENE
28	C415 ISOPHRONE
29	C420 2-NITROPHENOL
30	C425 2,4-DIMETHYLPHENOL
31	C430 BENZOIC ACID
32	C435 BIS(2-CHLOROETHOXY) METHANE
33	C440 2,4-DICHLOROPHENOL
34	C445 1,2,4-TRICHLOROBENZENE
35	C450 NAPHTHALENE
36	C455 4-CHLOROANILINE
37	C460 HEXACHLOROBUTADIENE
38	C465 4-CHLORO-3-METHYLPHENOL
39	C470 2-METHYLNAPHTHALENE
40	C510 HEXACHLOROCYCLOPENTADIENE
41	C515 2,4,6-TRICHLOROPHENOL
42	C520 2,4,5-TRICHLOROPHENOL
43	C525 2-CHLORONAPHTHALENE
44	C530 2-NITROANILINE
45	C535 DIMETHYLPHTHALATE
46	C540 ACENAPHTYLENE
47	C545 3-NITROANILINE

No	Name
48	C550 ACENAPHTHENE
49	C555 2,4-DINITROPHENOL
50	C560 4-NITROPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	422	7:02	1	1.000	A BB	16080.	40.000	NG/UL	1.02
2	136	645	10:45	2	1.000	A BB	58189.	40.000	NG/UL	1.02
3	164	959	15:59	3	1.000	A BB	32400.	40.000	NG/UL	1.02
4	188	1217	20:17	4	1.000	A BB	44637.	40.000	NG/UL	1.02
5	240	1697	28:17	5	1.000	A BB	44416.	40.000	NG/UL	1.02
6	264	1950	32:30	6	1.000	A BB	32029.	40.000	NG/UL	1.02
7	112	220	3:40	1	0.521	A BB	25277.	50.000	NG/UL	1.27
8	132	392	6:32	1	0.929	A BB	24344.	50.000	NG/UL	1.27
9	99	401	6:41	1	0.950	A BB	33672.	50.000	NG/UL	1.27
10	152	452	7:32	1	1.071	A BB	16445.	50.000	NG/UL	1.27
11	82	525	8:45	2	0.814	A BB	25201.	50.000	NG/UL	1.27
12	172	853	14:13	3	0.889	A BB	45060.	50.000	NG/UL	1.27
13	330	1102	18:22	3	1.149	A BB	7282.	50.000	NG/UL	1.27
14	244	1524	25:24	5	0.898	A BB	46744.	50.000	NG/UL	1.27
15	94	403	6:43	1	0.955	A BB	30268.	50.000	NG/UL	1.27
16	93	398	6:38	1	0.943	A BB	27582.	50.000	NG/UL	1.27
17	128	394	6:34	1	0.934	A BB	22736.	50.000	NG/UL	1.27
18	146	413	6:53	1	0.979	M XX 12.02.93	26340.	50.000	NG/UL	1.27
19	146	424	7:04	1	1.005	A BB	26865.	50.000	NG/UL	1.27
20	108	465	7:45	1	1.102	A BB	15711.	50.000	NG/UL	1.27
21	146	455	7:35	1	1.078	A BB	25692.	50.000	NG/UL	1.27
22	108	502	8:22	1	1.190	A BB	22190.	50.000	NG/UL	1.27
23	45	495	8:15	1	1.173	A BB	53886.	50.000	NG/UL	1.27
24	108	531	8:51	1	1.258	A BB	22951.	50.000	NG/UL	1.27
25	70	520	8:40	1	1.232	A BV	21807.	50.000	NG/UL	1.27
26	117	507	8:27	1	1.201	A BB	9497.	50.000	NG/UL	1.27
27	77	529	8:49	2	0.820	A BB	34531.	50.000	NG/UL	1.27
28	82	576	9:36	2	0.893	A BB	52358.	50.000	NG/UL	1.27
29	139	586	9:46	2	0.909	A BB	11896.	50.000	NG/UL	1.27
30	107	620	10:20	2	0.961	A BB	18997.	50.000	NG/UL	1.27
31	122	667	11:07	2	1.034	M XX 12.02.93	9947.	50.000	NG/UL	1.27
32	93	632	10:32	2	0.980	A BB	35698.	50.000	NG/UL	1.27
33	162	634	10:34	2	0.983	A BB	17253.	50.000	NG/UL	1.27
34	180	642	10:42	2	0.995	A BB	19761.	50.000	NG/UL	1.27
35	128	648	10:48	2	1.005	A BB	70518.	50.000	NG/UL	1.27
36	127	674	11:14	2	1.045	A BB	30760.	50.000	NG/UL	1.27
37	225	693	11:33	2	1.074	A BB	10078.	50.000	NG/UL	1.27
38	107	780	13:00	2	1.209	A BB	18492.	50.000	NG/UL	1.27
39	142	774	12:54	2	1.200	A BV	46576.	50.000	NG/UL	1.27
40	237	820	13:40	3	0.855	A BB	12872.	50.000	NG/UL	1.27
41	196	838	13:58	3	0.874	A BV	13314.	50.000	NG/UL	1.27
42	196	843	14:03	3	0.879	M XX 12.02.93	14219.	50.000	NG/UL	1.27
43	162	857	14:17	3	0.894	A BB	43206.	50.000	NG/UL	1.27
44	65	892	14:52	3	0.930	A BB	15049.	50.000	NG/UL	1.27
45	163	944	15:44	3	0.984	A BB	50082.	50.000	NG/UL	1.27
46	152	929	15:29	3	0.969	A BB	68025.	50.000	NG/UL	1.27
47	138	968	16:08	3	1.009	A BB	12443.	50.000	NG/UL	1.27
48	153	964	16:04	3	1.005	A BB	40256.	50.000	NG/UL	1.27
49	184	985	16:25	3	1.027	A BB	4553.	50.000	NG/UL	1.27
50	109	1019	16:59	3	1.063	A BB	2955.	50.000	NG/UL	1.27

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:02	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:45	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	15:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	20:17	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	28:17	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	32:30	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:40	1.00	0.521	1.00	50.00	50.00	1.258	1.258	1.00
8	6:32	1.00	0.929	1.00	50.00	50.00	1.211	1.211	1.00
9	6:41	1.00	0.950	1.00	50.00	50.00	1.675	1.675	1.00
10	7:32	1.00	1.071	1.00	50.00	50.00	0.818	0.818	1.00
11	8:45	1.00	0.814	1.00	50.00	50.00	0.346	0.346	1.00
12	14:13	1.00	0.889	1.00	50.00	50.00	1.113	1.113	1.00
13	18:22	1.00	1.149	1.00	50.00	50.00	0.180	0.180	1.00
14	25:24	1.00	0.898	1.00	50.00	50.00	0.842	0.842	1.00
15	6:43	1.00	0.955	1.00	50.00	50.00	1.506	1.506	1.00
16	6:38	1.00	0.943	1.00	50.00	50.00	1.372	1.372	1.00
17	6:34	1.00	0.934	1.00	50.00	50.00	1.131	1.131	1.00
18	6:53	1.00	0.979	1.00	50.00	50.00	1.310	1.310	1.00
19	7:04	1.00	1.005	1.00	50.00	50.00	1.337	1.337	1.00
20	7:45	1.00	1.102	1.00	50.00	50.00	0.782	0.782	1.00
21	7:35	1.00	1.078	1.00	50.00	50.00	1.278	1.278	1.00
22	8:22	1.00	1.190	1.00	50.00	50.00	1.104	1.104	1.00
23	8:15	1.00	1.173	1.00	50.00	50.00	2.681	2.681	1.00
24	8:51	1.00	1.258	1.00	50.00	50.00	1.142	1.142	1.00
25	8:40	1.00	1.232	1.00	50.00	50.00	1.085	1.085	1.00
26	8:27	1.00	1.201	1.00	50.00	50.00	0.472	0.472	1.00
27	8:49	1.00	0.820	1.00	50.00	50.00	0.475	0.475	1.00
28	9:36	1.00	0.893	1.00	50.00	50.00	0.720	0.720	1.00
29	9:46	1.00	0.909	1.00	50.00	50.00	0.164	0.164	1.00
30	10:20	1.00	0.961	1.00	50.00	50.00	0.261	0.261	1.00
31	11:07	1.00	1.034	1.00	50.00	50.00	0.137	0.137	1.00
32	10:32	1.00	0.980	1.00	50.00	50.00	0.491	0.491	1.00
33	10:34	1.00	0.983	1.00	50.00	50.00	0.237	0.237	1.00
34	10:42	1.00	0.995	1.00	50.00	50.00	0.272	0.272	1.00
35	10:48	1.00	1.005	1.00	50.00	50.00	0.970	0.970	1.00
36	11:14	1.00	1.045	1.00	50.00	50.00	0.423	0.423	1.00
37	11:33	1.00	1.074	1.00	50.00	50.00	0.139	0.139	1.00
38	13:00	1.00	1.209	1.00	50.00	50.00	0.254	0.254	1.00
39	12:54	1.00	1.200	1.00	50.00	50.00	0.640	0.640	1.00
40	13:40	1.00	0.855	1.00	50.00	50.00	0.318	0.318	1.00
41	13:58	1.00	0.874	1.00	50.00	50.00	0.329	0.329	1.00
42	14:03	1.00	0.879	1.00	50.00	50.00	0.351	0.351	1.00
43	14:17	1.00	0.894	1.00	50.00	50.00	1.067	1.067	1.00
44	14:52	1.00	0.930	1.00	50.00	50.00	0.372	0.372	1.00
45	15:44	1.00	0.984	1.00	50.00	50.00	1.237	1.237	1.00
46	15:29	1.00	0.969	1.00	50.00	50.00	1.680	1.680	1.00
47	16:08	1.00	1.009	1.00	50.00	50.00	0.307	0.307	1.00
48	16:04	1.00	1.005	1.00	50.00	50.00	0.994	0.994	1.00
49	16:25	1.00	1.027	1.00	50.00	50.00	0.112	0.112	1.00
50	16:59	1.00	1.063	1.00	50.00	50.00	0.073	0.073	1.00

Quantitation Report File: 50BA1201A1

Data: 50BA1201A1.TI
12/01/93 18:17:00
Sample: SSTD050
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	C565 DIBENZOFURAN
52	C570 2,4-DINITROTOLUENE
53	C543 2,6-DINITROTOLUENE
54	C580 DIETHYL PHTHALATE
55	C585 4-CHLOROPHENYL PHENYLETHER
56	C590 FLUORENE
57	C595 4-NITROANILINE
58	C610 4,6-DINITRO-2-METHYLPHENOL
59	C615 N-NITROSODIPHENYLAMINE
60	C625 4-BROMOPHENYL PHENYLETHER
61	C630 HEXACHLOROBENZENE
62	C635 PENTACHLOROPHENOL
63	C640 PHENANTHRENE
64	C645 ANTHRACENE
65	C646 CARBAZOLE
66	C650 DI-N-BUTYL PHTHALATE
67	C655 FLUORANTHENE
68	C715 PYRENE
69	C720 BUTYL BENZYL PHTHALATE
70	C725 3,3'-DICHLOROBENZIDINE
71	C730 BENZO(A) ANTHRACENE
72	C745 BIS(2-ETHYLHEXYL) PHTHALATE
73	C740 CHRYSENE
74	C760 DI-N-OCTYL PHTHALATE
75	C765 BENZO(B) FLUORANTHENE
76	C770 BENZO(K) FLUORANTHENE
77	C775 BENZO(A) PYRENE
78	C780 INDENO(1,2,3-CD) PYRENE
79	C785 DIBENZ(A,H) ANTHRACENE
80	C790 BENZO(GHI) PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	168	994	16:34	3	1.036	A BB	59788.	50.000 NG/UL	1.27
52	165	1014	16:54	3	1.057	A BB	13622.	50.000 NG/UL	1.27
53	165	949	15:49	3	0.990	A BB	10851.	50.000 NG/UL	1.27
54	149	1077	17:57	3	1.123	A BB	50242.	50.000 NG/UL	1.27
55	204	1068	17:48	3	1.114	A BB	25305.	50.000 NG/UL	1.27
56	166	1055	17:35	3	1.100	A BB	45495.	50.000 NG/UL	1.27
57	138	1079	17:59	3	1.125	A BB	10095.	50.000 NG/UL	1.27
58	198	1086	18:06	4	0.892	A BB	5942.	50.000 NG/UL	1.27
59	169	1094	18:14	4	0.899	A BB	32537.	50.000 NG/UL	1.27
60	248	1152	19:12	4	0.947	A BB	14241.	50.000 NG/UL	1.27
61	284	1167	19:27	4	0.959	A BB	13981.	50.000 NG/UL	1.27
62	266	1205	20:05	4	0.990	A BB	6160.	50.000 NG/UL	1.27
63	178	1221	20:21	4	1.003	A BV	68694.	50.000 NG/UL	1.27

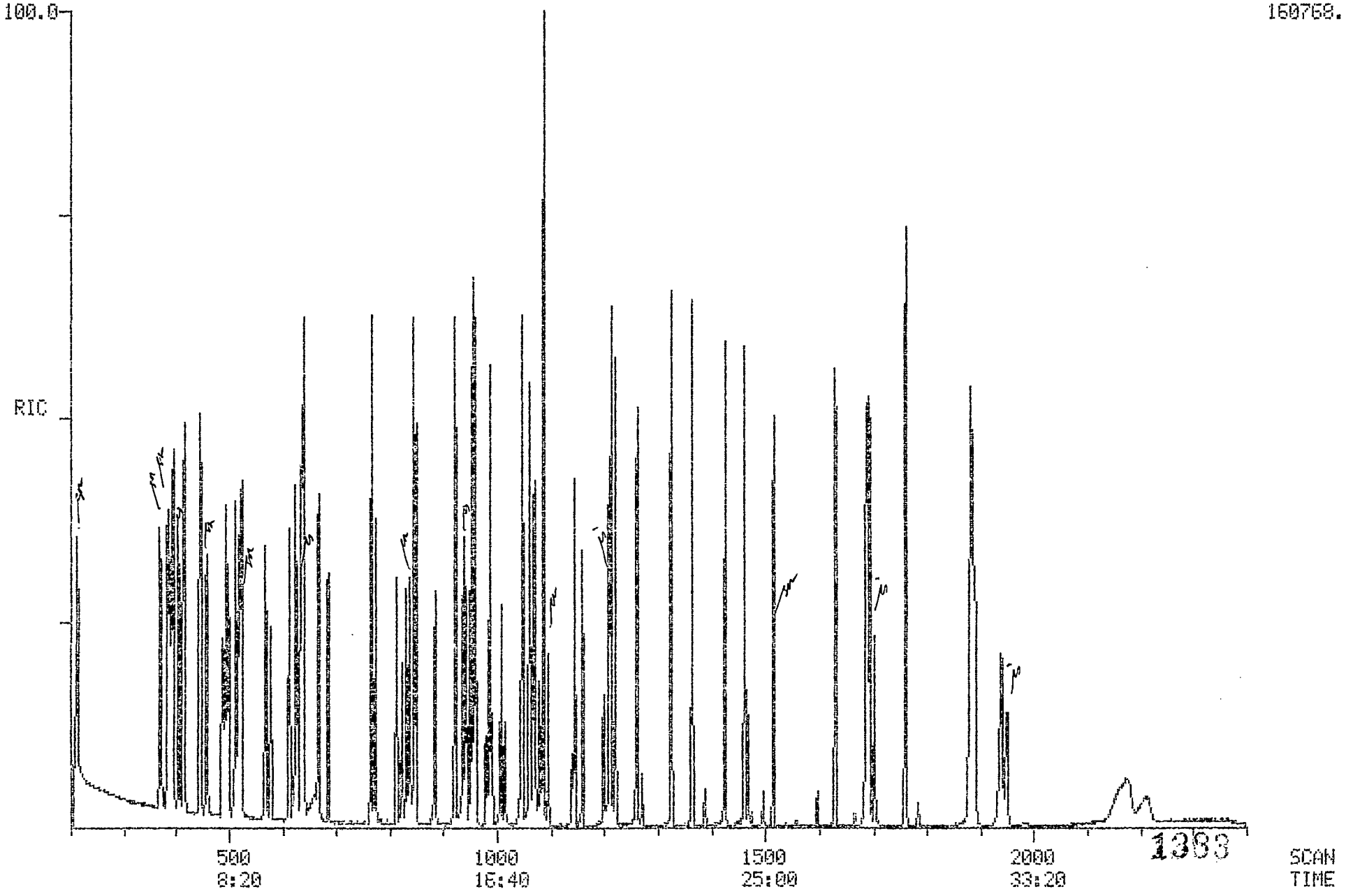
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
64	178	1229	20:29	4	1.010	M XX	62064.	50.000	NG/UL	1.27
65	167	1268	21:08	4	1.042	A BB	57752.	50.000	NG/UL	1.27
66	149	1372	22:52	4	1.127	A VB	88542.	50.000	NG/UL	1.27
67	202	1434	23:54	4	1.178	A VB	61360.	50.000	NG/UL	1.27
68	202	1470	24:30	5	0.866	A VB	62761.	50.000	NG/UL	1.27
69	149	1638	27:18	5	0.965	A BB	36399.	50.000	NG/ML	1.27
70	252	1709	28:29	5	1.007	A BB	19325.	50.000	NG/UL	1.27
71	228	1694	28:14	5	0.998	M XX	65901.	50.000	NG/UL	1.27
72	149	1767	29:27	5	1.041	A BB	56966.	50.000	NG/UL	1.27
73	228	1702	28:22	5	1.003	A VB	41760.	50.000	NG/UL	1.27
74	149	1887	31:27	6	0.968	A BB	90541.	50.000	NG/UL	1.27
75	252	1888	31:28	6	0.968	A BV	67308.	50.000	NG/UL	1.27
76	252	1893	31:33	6	0.971	A VB	40133.	50.000	NG/UL	1.27
77	252	1940	32:20	6	0.995	A BB	52404.	50.000	NG/UL	1.27
78	276	2143	35:43	6	1.099	M XX	35805.	50.000	NG/UL	1.27
79	278	2156	35:56	6	1.106	A BB	29758.	50.000	NG/UL	1.27
80	276	2188	36:28	6	1.122	A BB	24149.	50.000	NG/UL	1.27

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	16:34	1.00	1.036	1.00	50.00	50.00	1.476	1.476	1.00
52	16:54	1.00	1.057	1.00	50.00	50.00	0.336	0.336	1.00
53	15:49	1.00	0.990	1.00	50.00	50.00	0.268	0.268	1.00
54	17:57	1.00	1.123	1.00	50.00	50.00	1.241	1.241	1.00
55	17:48	1.00	1.114	1.00	50.00	50.00	0.625	0.625	1.00
56	17:35	1.00	1.100	1.00	50.00	50.00	1.123	1.123	1.00
57	17:59	1.00	1.125	1.00	50.00	50.00	0.249	0.249	1.00
58	18:06	1.00	0.892	1.00	50.00	50.00	0.106	0.106	1.00
59	18:14	1.00	0.899	1.00	50.00	50.00	0.583	0.583	1.00
60	19:12	1.00	0.947	1.00	50.00	50.00	0.255	0.255	1.00
61	19:27	1.00	0.959	1.00	50.00	50.00	0.251	0.251	1.00
62	20:05	1.00	0.990	1.00	50.00	50.00	0.110	0.110	1.00
63	20:21	1.00	1.003	1.00	50.00	50.00	1.231	1.231	1.00
64	20:29	1.00	1.010	1.00	50.00	50.00	1.112	1.112	1.00
65	21:08	1.00	1.042	1.00	50.00	50.00	1.035	1.035	1.00
66	22:52	1.00	1.127	1.00	50.00	50.00	1.587	1.587	1.00
67	23:54	1.00	1.178	1.00	50.00	50.00	1.100	1.100	1.00
68	24:30	1.00	0.866	1.00	50.00	50.00	1.130	1.130	1.00
69	27:18	1.00	0.965	1.00	50.00	50.00	0.656	0.656	1.00
70	28:29	1.00	1.007	1.00	50.00	50.00	0.348	0.348	1.00
71	28:14	1.00	0.998	1.00	50.00	50.00	1.187	1.187	1.00
72	29:27	1.00	1.041	1.00	50.00	50.00	1.026	1.026	1.00
73	28:22	1.00	1.003	1.00	50.00	50.00	0.752	0.752	1.00
74	31:27	1.00	0.968	1.00	50.00	50.00	2.261	2.261	1.00
75	31:28	1.00	0.968	1.00	50.00	50.00	1.681	1.681	1.00
76	31:33	1.00	0.971	1.00	50.00	50.00	1.002	1.002	1.00
77	32:20	1.00	0.995	1.00	50.00	50.00	1.309	1.309	1.00
78	35:43	1.00	1.099	1.00	50.00	50.00	0.894	0.894	1.00
79	35:56	1.00	1.106	1.00	50.00	50.00	0.743	0.743	1.00
80	36:28	1.00	1.122	1.00	50.00	50.00	0.603	0.603	1.00

RIC
12/02/93 12:13:00
SAMPLE: SSTD050
CONDS.: INST. 001
RANGE: G 1,2400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 50BA1202 #1
CALI: 50BA1202 #3

SCANS 200 TO 2400



1383

Quantitation Report File: 50BA1202

Data: 50BA1202.TI
12/02/93 12:13:00
Sample: SSTD050
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT.STD.)***
2	CI40 D8-NAPHTHALENE***(INT.STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT.STD.)***
5	CI70 D12-CHRYSENE***(INT.STD.)***
6	CI75 D12-PERYLENE***(INT.STD.)***
7	CS50 2-FLUOROPHENOL***(SURR.STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR.STD.)***
9	CS45 D5-PHENOL***(SURR.STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR.STD)***
11	CS20 D5-NITROBENZENE***(SURR.STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR.STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR.STD.)***
14	CS30 D14-TERPHENYL***(SURR.STD.)***
15	C315 PHENOL
16	C325 BIS(2-CHLOROETHYL) ETHER
17	C330 2-CHLOROPHENOL
18	C335 1,3-DICHLOROBENZENE
19	C340 1,4-DICHLOROBENZENE
20	C345 BENZYL ALCOHOL
21	C350 1,2-DICHLOROBENZENE
22	C355 2-METHYLPHENOL
23	C360 2,2'-OXYBIS(1-CHLOROPROPANE)
24	C365 4-METHYLPHENOL
25	C370 N-NITROSO-DI-N-PROPYLAMINE
26	C375 HEXACHLOROETHANE
27	C410 NITROBENZENE
28	C415 ISOPHRONE
29	C420 2-NITROPHENOL
30	C425 2,4-DIMETHYLPHENOL
31	C430 BENZOIC ACID
32	C435 BIS(2-CHLOROETHOXY) METHANE
33	C440 2,4-DICHLOROPHENOL
34	C445 1,2,4-TRICHLOROBENZENE
35	C450 NAPHTHALENE
36	C455 4-CHLOROANILINE
37	C460 HEXACHLOROBUTADIENE
38	C465 4-CHLORO-3-METHYLPHENOL
39	C470 2-METHYLNAPHTHALENE
40	C510 HEXACHLOROCYCLOPENTADIENE
41	C515 2,4,6-TRICHLOROPHENOL
42	C520 2,4,5-TRICHLOROPHENOL
43	C525 2-CHLORONAPHTHALENE
44	C530 2-NITROANILINE
45	C535 DIMETHYLPHTHALATE
46	C540 ACENAPHTYLENE
47	C545 3-NITROANILINE

No	Name
48	C550 ACENAPHTHENE
49	C555 2,4-DINITROPHENOL
50	C560 4-NITROPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	414	6:54	1	1.000	A BB	27454.	40.000	NG/UL	1.02
2	136	638	10:38	2	1.000	A BB	92483.	40.000	NG/UL	1.02
3	164	952	15:52	3	1.000	A BB	54644.	40.000	NG/UL	1.02
4	188	1210	20:10	4	1.000	A BV	76296.	40.000	NG/UL	1.02
5	240	1692	28:12	5	1.000	A BB	78237.	40.000	NG/UL	1.02
6	264	1949	32:29	6	1.000	A BB	52510.	40.000	NG/UL	1.02
7	112	213	3:33	1	0.514	A BB	44631.	50.000	NG/UL	1.27
8	132	385	6:25	1	0.930	A BB	39559.	50.000	NG/UL	1.27
9	99	395	6:35	1	0.954	A VB	56719.	50.000	NG/UL	1.27
10	152	445	7:25	1	1.075	A BB	28820.	50.000	NG/UL	1.27
11	82	519	8:39	2	0.813	A BB	45885.	50.000	NG/UL	1.27
12	172	846	14:06	3	0.889	A BB	79240.	50.000	NG/UL	1.27
13	330	1095	18:15	3	1.150	A BB	13187.	50.000	NG/UL	1.27
14	244	1517	25:17	5	0.897	A VB	80730.	50.000	NG/UL	1.27
15	94	397	6:37	1	0.959	A BB	54523.	50.000	NG/UL	1.27
16	93	391	6:31	1	0.944	A BB	48785.	50.000	NG/UL	1.27
17	128	387	6:27	1	0.935	A BB	39583.	50.000	NG/UL	1.27
18	146	406	6:46	1	0.981	M XX	45199.	50.000	NG/UL	1.27
19	146	417	6:57	1	1.007	A VB	46726.	50.000	NG/UL	1.27
20	108	459	7:39	1	1.109	A BB	27611.	50.000	NG/UL	1.27
21	146	447	7:27	1	1.080	A BB	44966.	50.000	NG/UL	1.27
22	108	496	8:16	1	1.198	A BB	40254.	50.000	NG/UL	1.27
23	45	488	8:08	1	1.179	A BB	93596.	50.000	NG/UL	1.27
24	108	525	8:45	1	1.268	A BB	41517.	50.000	NG/UL	1.27
25	70	514	8:34	1	1.242	A BV	39563.	50.000	NG/UL	1.27
26	117	500	8:20	1	1.208	A BB	17211.	50.000	NG/UL	1.27
27	77	522	8:42	2	0.818	A BB	63845.	50.000	NG/UL	1.27
28	82	570	9:30	2	0.893	A BV	95348.	50.000	NG/UL	1.27
29	139	579	9:39	2	0.908	A BB	20880.	50.000	NG/UL	1.27
30	107	614	10:14	2	0.962	A BB	34747.	50.000	NG/UL	1.27
31	122	662	11:02	2	1.038	M XX	16494.	50.000	NG/UL	1.27
32	93	625	10:25	2	0.980	A VB	64435.	50.000	NG/UL	1.27
33	162	628	10:28	2	0.984	A BB	30267.	50.000	NG/UL	1.27
34	180	635	10:35	2	0.995	A BB	34993.	50.000	NG/UL	1.27
35	128	641	10:41	2	1.005	A BB	117645.	50.000	NG/UL	1.27
36	127	668	11:08	2	1.047	A BB	55874.	50.000	NG/UL	1.27
37	225	685	11:25	2	1.074	A BB	18342.	50.000	NG/UL	1.27
38	107	774	12:54	2	1.213	A BB	34263.	50.000	NG/UL	1.27
39	142	767	12:47	2	1.202	A BV	85151.	50.000	NG/UL	1.27
40	237	813	13:33	3	0.854	A BB	22829.	50.000	NG/UL	1.27
41	196	832	13:52	3	0.874	A BV	21479.	50.000	NG/UL	1.27
42	196	837	13:57	3	0.879	M XX	24748.	50.000	NG/UL	1.27
43	162	850	14:10	3	0.893	A BB	77118.	50.000	NG/UL	1.27
44	65	885	14:45	3	0.930	A BB	27044.	50.000	NG/UL	1.27
45	163	938	15:38	3	0.985	A BB	90852.	50.000	NG/UL	1.27
46	152	922	15:22	3	0.968	A BB	119843.	50.000	NG/UL	1.27
47	138	961	16:01	3	1.009	A BB	21183.	50.000	NG/UL	1.27
48	153	957	15:57	3	1.005	A BB	73221.	50.000	NG/UL	1.27
49	184	978	16:18	3	1.027	A BB	8150.	50.000	NG/UL	1.27
50	109	1014	16:54	3	1.065	A BB	5957.	50.000	NG/UL	1.27

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:38	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	15:52	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	20:10	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	28:12	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	32:29	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:33	1.00	0.514	1.00	50.00	50.00	1.301	1.301	1.00
8	6:25	1.00	0.930	1.00	50.00	50.00	1.153	1.153	1.00
9	6:35	1.00	0.954	1.00	50.00	50.00	1.653	1.653	1.00
10	7:25	1.00	1.075	1.00	50.00	50.00	0.840	0.840	1.00
11	8:39	1.00	0.813	1.00	50.00	50.00	0.397	0.397	1.00
12	14:06	1.00	0.889	1.00	50.00	50.00	1.160	1.160	1.00
13	18:15	1.00	1.150	1.00	50.00	50.00	0.193	0.193	1.00
14	25:17	1.00	0.897	1.00	50.00	50.00	0.825	0.825	1.00
15	6:37	1.00	0.959	1.00	50.00	50.00	1.589	1.589	1.00
16	6:31	1.00	0.944	1.00	50.00	50.00	1.422	1.422	1.00
17	6:27	1.00	0.935	1.00	50.00	50.00	1.153	1.153	1.00
18	6:46	1.00	0.981	1.00	50.00	50.00	1.317	1.317	1.00
19	6:57	1.00	1.007	1.00	50.00	50.00	1.362	1.362	1.00
20	7:39	1.00	1.109	1.00	50.00	50.00	0.805	0.805	1.00
21	7:27	1.00	1.080	1.00	50.00	50.00	1.310	1.310	1.00
22	8:16	1.00	1.198	1.00	50.00	50.00	1.173	1.173	1.00
23	8:08	1.00	1.179	1.00	50.00	50.00	2.727	2.727	1.00
24	8:45	1.00	1.268	1.00	50.00	50.00	1.210	1.210	1.00
25	8:34	1.00	1.242	1.00	50.00	50.00	1.153	1.153	1.00
26	8:20	1.00	1.208	1.00	50.00	50.00	0.502	0.502	1.00
27	8:42	1.00	0.818	1.00	50.00	50.00	0.552	0.552	1.00
28	9:30	1.00	0.893	1.00	50.00	50.00	0.825	0.825	1.00
29	9:39	1.00	0.908	1.00	50.00	50.00	0.181	0.181	1.00
30	10:14	1.00	0.962	1.00	50.00	50.00	0.301	0.301	1.00
31	11:02	1.00	1.038	1.00	50.00	50.00	0.143	0.143	1.00
32	10:25	1.00	0.980	1.00	50.00	50.00	0.557	0.557	1.00
33	10:28	1.00	0.984	1.00	50.00	50.00	0.262	0.262	1.00
34	10:35	1.00	0.995	1.00	50.00	50.00	0.303	0.303	1.00
35	10:41	1.00	1.005	1.00	50.00	50.00	1.018	1.018	1.00
36	11:08	1.00	1.047	1.00	50.00	50.00	0.483	0.483	1.00
37	11:25	1.00	1.074	1.00	50.00	50.00	0.159	0.159	1.00
38	12:54	1.00	1.213	1.00	50.00	50.00	0.296	0.296	1.00
39	12:47	1.00	1.202	1.00	50.00	50.00	0.737	0.737	1.00
40	13:33	1.00	0.854	1.00	50.00	50.00	0.334	0.334	1.00
41	13:52	1.00	0.874	1.00	50.00	50.00	0.314	0.314	1.00
42	13:57	1.00	0.879	1.00	50.00	50.00	0.362	0.362	1.00
43	14:10	1.00	0.893	1.00	50.00	50.00	1.129	1.129	1.00
44	14:45	1.00	0.930	1.00	50.00	50.00	0.396	0.396	1.00
45	15:38	1.00	0.985	1.00	50.00	50.00	1.330	1.330	1.00
46	15:22	1.00	0.968	1.00	50.00	50.00	1.755	1.755	1.00
47	16:01	1.00	1.009	1.00	50.00	50.00	0.310	0.310	1.00
48	15:57	1.00	1.005	1.00	50.00	50.00	1.072	1.072	1.00
49	16:18	1.00	1.027	1.00	50.00	50.00	0.119	0.119	1.00
50	16:54	1.00	1.065	1.00	50.00	50.00	0.087	0.087	1.00

Quantitation Report File: 50BA1202

Data: 50BA1202.TI
12/02/93 12:13:00
Sample: SSTD050
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	C565 DIBENZOFURAN
52	C570 2,4-DINITROTOLUENE
53	C543 2,6-DINITROTOLUENE
54	C580 DIETHYL PHTHALATE
55	C585 4-CHLOROPHENYL PHENYLETHER
56	C590 FLUORENE
57	C595 4-NITROANILINE
58	C610 4,6-DINITRO-2-METHYLPHENOL
59	C615 N-NITROSODIPHENYLAMINE
60	C625 4-BROMOPHENYL PHENYLETHER
61	C630 HEXACHLOROBENZENE
62	C635 PENTACHLOROPHENOL
63	C640 PHENANTHRENE
64	C645 ANTHRACENE
65	C646 CARBAZOLE
66	C650 DI-N-BUTYL PHTHALATE
67	C655 FLUORANTHENE
68	C715 PYRENE
69	C720 BUTYL BENZYL PHTHALATE
70	C725 3,3'-DICHLOROBENZIDINE
71	C730 BENZO(A) ANTHRACENE
72	C745 BIS(2-ETHYLHEXYL) PHTHALATE
73	C740 CHRYSENE
74	C760 DI-N-OCTYL PHTHALATE
75	C765 BENZO(B) FLUORANTHENE
76	C770 BENZO(K) FLUORANTHENE
77	C775 BENZO(A) PYRENE
78	C780 INDENO(1,2,3-CD) PYRENE
79	C785 DIBENZ(A,H) ANTHRACENE
80	C790 BENZO(GHI) PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	168	987	16:27	3	1.037	A BB	106608.	50.000 NG/UL	1.27
52	165	1008	16:48	3	1.059	A BB	23808.	50.000 NG/UL	1.27
53	165	942	15:42	3	0.989	A BV	20616.	50.000 NG/UL	1.27
54	149	1069	17:49	3	1.123	A BB	88389.	50.000 NG/UL	1.27
55	204	1061	17:41	3	1.114	A BB	45503.	50.000 NG/UL	1.27
56	166	1048	17:28	3	1.101	A BB	79959.	50.000 NG/UL	1.27
57	138	1072	17:52	3	1.126	A BV	16173.	50.000 NG/UL	1.27
58	198	1079	17:59	4	0.892	A BB	10526.	50.000 NG/UL	1.27
59	169	1087	18:07	4	0.898	A BB	54030.	50.000 NG/UL	1.27
60	248	1145	19:05	4	0.946	A BB	24969.	50.000 NG/UL	1.27
61	284	1160	19:20	4	0.959	A BB	24240.	50.000 NG/UL	1.27
62	266	1199	19:59	4	0.991	A BB	9040.	50.000 NG/UL	1.27
63	178	1214	20:14	4	1.003	A BV	105176.	50.000 NG/UL	1.27

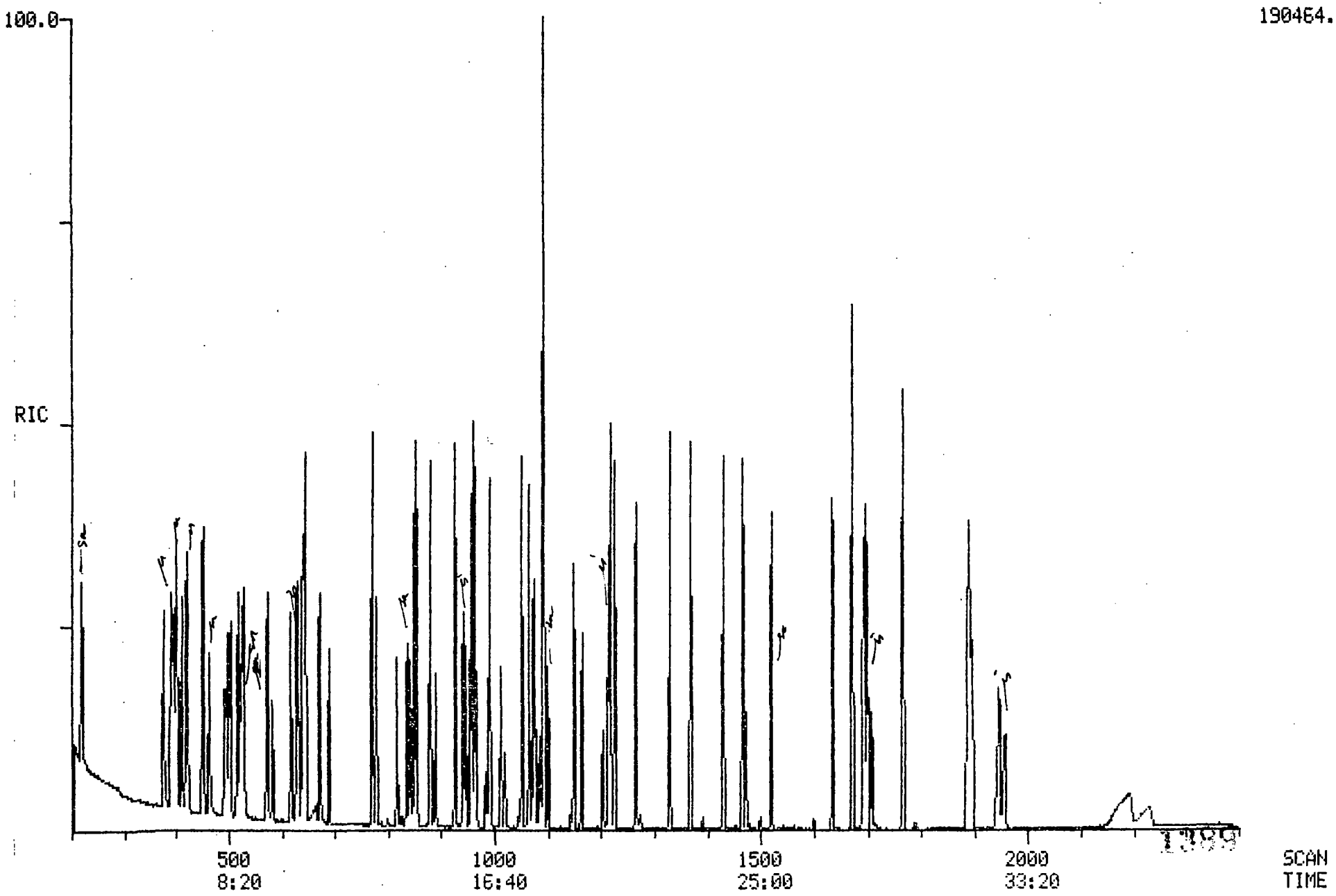
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
64	178	1222	20:22	4	1.010	M XX	95506.	50.000	NG/UL	1.27
65	167	1262	21:02	4	1.043	A BB	94600.	50.000	NG/UL	1.27
66	149	1365	22:45	4	1.128	A VB	160250.	50.000	NG/UL	1.27
67	202	1427	23:47	4	1.179	A BB	104461.	50.000	NG/UL	1.27
68	202	1463	24:23	5	0.865	A VB	105292.	50.000	NG/UL	1.27
69	149	1631	27:11	5	0.964	A BB	71242.	50.000	NG/ML	1.27
70	252	1703	28:23	5	1.007	A BB	28919.	50.000	NG/UL	1.27
71	228	1688	28:08	5	0.998	M XX	110881.	50.000	NG/UL	1.27
72	149	1761	29:21	5	1.041	A BB	112240.	50.000	NG/UL	1.27
73	228	1696	28:16	5	1.002	A VB	73261.	50.000	NG/UL	1.27
74	149	1882	31:22	6	0.966	M XX	172715.	50.000	NG/UL	1.27
75	252	1886	31:26	6	0.968	A BV	126502.	50.000	NG/UL	1.27
76	252	1890	31:30	6	0.970	A VB	57373.	50.000	NG/UL	1.27
77	252	1939	32:19	6	0.995	A BB	87069.	50.000	NG/UL	1.27
78	276	2158	35:58	6	1.107	M XX	42573.	50.000	NG/UL	1.27
79	278	2178	36:18	6	1.117	M XX	34998.	50.000	NG/UL	1.27
80	276	2213	36:53	6	1.135	M XX	43364.	50.000	NG/UL	1.27

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	16:27	1.00	1.037	1.00	50.00	50.00	1.561	1.561	1.00
52	16:48	1.00	1.059	1.00	50.00	50.00	0.349	0.349	1.00
53	15:42	1.00	0.989	1.00	50.00	50.00	0.302	0.302	1.00
54	17:49	1.00	1.123	1.00	50.00	50.00	1.294	1.294	1.00
55	17:41	1.00	1.114	1.00	50.00	50.00	0.666	0.666	1.00
56	17:28	1.00	1.101	1.00	50.00	50.00	1.171	1.171	1.00
57	17:52	1.00	1.126	1.00	50.00	50.00	0.237	0.237	1.00
58	17:59	1.00	0.892	1.00	50.00	50.00	0.110	0.110	1.00
59	18:07	1.00	0.898	1.00	50.00	50.00	0.567	0.567	1.00
60	19:05	1.00	0.946	1.00	50.00	50.00	0.262	0.262	1.00
61	19:20	1.00	0.959	1.00	50.00	50.00	0.254	0.254	1.00
62	19:59	1.00	0.991	1.00	50.00	50.00	0.095	0.095	1.00
63	20:14	1.00	1.003	1.00	50.00	50.00	1.103	1.103	1.00
64	20:22	1.00	1.010	1.00	50.00	50.00	1.001	1.001	1.00
65	21:02	1.00	1.043	1.00	50.00	50.00	0.992	0.992	1.00
66	22:45	1.00	1.128	1.00	50.00	50.00	1.680	1.680	1.00
67	23:47	1.00	1.179	1.00	50.00	50.00	1.095	1.095	1.00
68	24:23	1.00	0.865	1.00	50.00	50.00	1.077	1.077	1.00
69	27:11	1.00	0.964	1.00	50.00	50.00	0.728	0.728	1.00
70	28:23	1.00	1.006	1.00	50.00	50.00	0.296	0.296	1.00
71	28:08	1.00	0.998	1.00	50.00	50.00	1.134	1.134	1.00
72	29:21	1.00	1.041	1.00	50.00	50.00	1.148	1.148	1.00
73	28:16	1.00	1.002	1.00	50.00	50.00	0.749	0.749	1.00
74	31:22	1.00	0.966	1.00	50.00	50.00	2.631	2.631	1.00
75	31:26	1.00	0.968	1.00	50.00	50.00	1.927	1.927	1.00
76	31:30	1.00	0.970	1.00	50.00	50.00	0.874	0.874	1.00
77	32:19	1.00	0.995	1.00	50.00	50.00	1.327	1.327	1.00
78	35:58	1.00	1.107	1.00	50.00	50.00	0.649	0.649	1.00
79	36:18	1.00	1.117	1.00	50.00	50.00	0.533	0.533	1.00
80	36:53	1.00	1.135	1.00	50.00	50.00	0.661	0.661	1.00

RIC
12/03/93 16:16:00
SAMPLE: SSTD050
CONDS.: INST. 001
RANGE: G 1,2400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 50BA1203 #1
CALI: 50BA1203 #3

SCANS 200 TO 2400



Quantitation Report File: 50BA1203

Data: 50BA1203.TI
12/03/93 16:16:00
Sample: SSTD050
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT. STD.)***
2	CI40 D8-NAPHTHALENE***(INT. STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT. STD.)***
5	CI70 D12-CHRYSENE***(INT. STD.)***
6	CI75 D12-PERYLENE***(INT. STD.)***
7	CS50 2-FLUOROPHENOL***(SURR. STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR. STD.)***
9	CS45 D5-PHENOL***(SURR. STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR. STD)***
11	CS20 D5-NITROBENZENE***(SURR. STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR. STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR. STD.)***
14	CS30 D14-TERPHENYL***(SURR. STD.)***
15	C315 PHENOL
16	C325 BIS(2-CHLOROETHYL) ETHER
17	C330 2-CHLOROPHENOL
18	C335 1,3-DICHLOROBENZENE
19	C340 1,4-DICHLOROBENZENE
20	C345 BENZYL ALCOHOL
21	C350 1,2-DICHLOROBENZENE
22	C355 2-METHYLPHENOL
23	C360 2,2'-OXYBIS(1-CHLOROPROPANE)
24	C365 4-METHYLPHENOL
25	C370 N-NITROSO-DI-N-PROPYLAMINE
26	C375 HEXACHLOROETHANE
27	C410 NITROBENZENE
28	C415 ISOPHRONE
29	C420 2-NITROPHENOL
30	C425 2,4-DIMETHYLPHENOL
31	C430 BENZOIC ACID
32	C435 BIS(2-CHLOROETHOXY) METHANE
33	C440 2,4-DICHLOROPHENOL
34	C445 1,2,4-TRICHLOROBENZENE
35	C450 NAPHTHALENE
36	C455 4-CHLOROANILINE
37	C460 HEXACHLOROBUTADIENE
38	C465 4-CHLORO-3-METHYLPHENOL
39	C470 2-METHYLNAPHTHALENE
40	C510 HEXACHLOROCYCLOPENTADIENE
41	C515 2,4,6-TRICHLOROPHENOL
42	C520 2,4,5-TRICHLOROPHENOL
43	C525 2-CHLORONAPHTHALENE
44	C530 2-NITROANILINE
45	C535 DIMETHYLPHTHALATE
46	C540 ACENAPHTYLENE
47	C545 3-NITROANILINE

No	Name
48	C550 ACENAPHTHENE
49	C555 2,4-DINITROPHENOL
50	C560 4-NITROPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	419	6:59	1	1.000	A BB	22234.	40.000	NG/UL	1.02
2	136	642	10:42	2	1.000	A BB	82318.	40.000	NG/UL	1.02
3	164	956	15:56	3	1.000	A BB	46777.	40.000	NG/UL	1.02
4	188	1214	20:14	4	1.000	A BB	67844.	40.000	NG/UL	1.02
5	240	1696	28:16	5	1.000	A BB	66731.	40.000	NG/UL	1.02
6	264	1956	32:36	6	1.000	A BB	51617.	40.000	NG/UL	1.02
7	112	220	3:40	1	0.525	A BB	41605.	50.000	NG/UL	1.27
8	132	390	6:30	1	0.931	A BB	34628.	50.000	NG/UL	1.27
9	99	400	6:40	1	0.955	A BB	48564.	50.000	NG/UL	1.27
10	152	450	7:30	1	1.074	A BB	23625.	50.000	NG/UL	1.27
11	82	523	8:43	2	0.815	A BB	39952.	50.000	NG/UL	1.27
12	172	850	14:10	3	0.889	A BB	69678.	50.000	NG/UL	1.27
13	330	1100	18:20	3	1.151	A BB	10906.	50.000	NG/UL	1.27
14	244	1521	25:21	5	0.897	A BB	68887.	50.000	NG/UL	1.27
15	94	402	6:42	1	0.959	A BB	46213.	50.000	NG/UL	1.27
16	93	395	6:35	1	0.943	A BB	42679.	50.000	NG/UL	1.27
17	128	392	6:32	1	0.936	A BB	34260.	50.000	NG/UL	1.27
18	146	411	6:51	1	0.981	M XX	38999.	50.000	NG/UL	1.27
19	146	422	7:02	1	1.007	A VB	40668.	50.000	NG/UL	1.27
20	108	463	7:43	1	1.105	A BB	22938.	50.000	NG/UL	1.27
21	146	452	7:32	1	1.079	A BB	38582.	50.000	NG/UL	1.27
22	108	500	8:20	1	1.193	A BB	34387.	50.000	NG/UL	1.27
23	45	493	8:13	1	1.177	A BB	80407.	50.000	NG/UL	1.27
24	108	529	8:49	1	1.263	A BB	34569.	50.000	NG/UL	1.27
25	70	518	8:38	1	1.236	A BV	32659.	50.000	NG/UL	1.27
26	117	504	8:24	1	1.203	A BB	14219.	50.000	NG/UL	1.27
27	77	526	8:46	2	0.819	A BB	54360.	50.000	NG/UL	1.27
28	82	574	9:34	2	0.894	A BV	82830.	50.000	NG/UL	1.27
29	139	583	9:43	2	0.908	A BB	16935.	50.000	NG/UL	1.27
30	107	618	10:18	2	0.963	A BB	30510.	50.000	NG/UL	1.27
31	122	666	11:06	2	1.037	M XX	10388.	50.000	NG/UL	1.27
32	93	629	10:29	2	0.980	A BB	55943.	50.000	NG/UL	1.27
33	162	632	10:32	2	0.984	A BB	24709.	50.000	NG/UL	1.27
34	180	639	10:39	2	0.995	A BB	30163.	50.000	NG/UL	1.27
35	128	645	10:45	2	1.005	A BB	102272.	50.000	NG/UL	1.27
36	127	672	11:12	2	1.047	A BB	47259.	50.000	NG/UL	1.27
37	225	689	11:29	2	1.073	A BB	15218.	50.000	NG/UL	1.27
38	107	778	12:58	2	1.212	A BB	29253.	50.000	NG/UL	1.27
39	142	771	12:51	2	1.201	A BV	71143.	50.000	NG/UL	1.27
40	237	817	13:37	3	0.855	A BB	17789.	50.000	NG/UL	1.27
41	196	836	13:56	3	0.874	A BV	17168.	50.000	NG/UL	1.27
42	196	842	14:02	3	0.881	A VB	20444.	50.000	NG/UL	1.27
43	162	854	14:14	3	0.893	A BB	65193.	50.000	NG/UL	1.27
44	65	889	14:49	3	0.930	A BB	22663.	50.000	NG/UL	1.27
45	163	941	15:41	3	0.984	A BB	77316.	50.000	NG/UL	1.27
46	152	926	15:26	3	0.969	A BB	101163.	50.000	NG/UL	1.27
47	138	965	16:05	3	1.009	A BB	17615.	50.000	NG/UL	1.27
48	153	961	16:01	3	1.005	A BB	61431.	50.000	NG/UL	1.27
49	184	983	16:23	3	1.028	A BB	5990.	50.000	NG/UL	1.27
50	109	1019	16:59	3	1.066	A BB	4601.	50.000	NG/UL	1.27

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	6:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	10:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	15:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	20:14	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	28:16	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	32:36	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	3:40	1.00	0.525	1.00	50.00	50.00	1.497	1.497	1.00
8	6:30	1.00	0.931	1.00	50.00	50.00	1.246	1.246	1.00
9	6:40	1.00	0.955	1.00	50.00	50.00	1.747	1.747	1.00
10	7:30	1.00	1.074	1.00	50.00	50.00	0.850	0.850	1.00
11	8:43	1.00	0.815	1.00	50.00	50.00	0.388	0.388	1.00
12	14:10	1.00	0.889	1.00	50.00	50.00	1.192	1.192	1.00
13	18:20	1.00	1.151	1.00	50.00	50.00	0.187	0.187	1.00
14	25:21	1.00	0.897	1.00	50.00	50.00	0.826	0.826	1.00
15	6:42	1.00	0.959	1.00	50.00	50.00	1.663	1.663	1.00
16	6:35	1.00	0.943	1.00	50.00	50.00	1.536	1.536	1.00
17	6:32	1.00	0.936	1.00	50.00	50.00	1.233	1.233	1.00
18	6:51	1.00	0.981	1.00	50.00	50.00	1.403	1.403	1.00
19	7:02	1.00	1.007	1.00	50.00	50.00	1.463	1.463	1.00
20	7:43	1.00	1.105	1.00	50.00	50.00	0.825	0.825	1.00
21	7:32	1.00	1.079	1.00	50.00	50.00	1.388	1.388	1.00
22	8:20	1.00	1.193	1.00	50.00	50.00	1.237	1.237	1.00
23	8:13	1.00	1.177	1.00	50.00	50.00	2.893	2.893	1.00
24	8:49	1.00	1.263	1.00	50.00	50.00	1.244	1.244	1.00
25	8:38	1.00	1.236	1.00	50.00	50.00	1.175	1.175	1.00
26	8:24	1.00	1.203	1.00	50.00	50.00	0.512	0.512	1.00
27	8:46	1.00	0.819	1.00	50.00	50.00	0.528	0.528	1.00
28	9:34	1.00	0.894	1.00	50.00	50.00	0.805	0.805	1.00
29	9:43	1.00	0.908	1.00	50.00	50.00	0.165	0.165	1.00
30	10:18	1.00	0.963	1.00	50.00	50.00	0.297	0.297	1.00
31	11:06	1.00	1.037	1.00	50.00	50.00	0.101	0.101	1.00
32	10:29	1.00	0.980	1.00	50.00	50.00	0.544	0.544	1.00
33	10:32	1.00	0.984	1.00	50.00	50.00	0.240	0.240	1.00
34	10:39	1.00	0.995	1.00	50.00	50.00	0.293	0.293	1.00
35	10:45	1.00	1.005	1.00	50.00	50.00	0.994	0.994	1.00
36	11:12	1.00	1.047	1.00	50.00	50.00	0.459	0.459	1.00
37	11:29	1.00	1.073	1.00	50.00	50.00	0.148	0.148	1.00
38	12:58	1.00	1.212	1.00	50.00	50.00	0.284	0.284	1.00
39	12:51	1.00	1.201	1.00	50.00	50.00	0.691	0.691	1.00
40	13:37	1.00	0.855	1.00	50.00	50.00	0.304	0.304	1.00
41	13:56	1.00	0.874	1.00	50.00	50.00	0.294	0.294	1.00
42	14:02	1.00	0.881	1.00	50.00	50.00	0.350	0.350	1.00
43	14:14	1.00	0.893	1.00	50.00	50.00	1.115	1.115	1.00
44	14:49	1.00	0.930	1.00	50.00	50.00	0.388	0.388	1.00
45	15:41	1.00	0.984	1.00	50.00	50.00	1.322	1.322	1.00
46	15:26	1.00	0.969	1.00	50.00	50.00	1.730	1.730	1.00
47	16:05	1.00	1.009	1.00	50.00	50.00	0.301	0.301	1.00
48	16:01	1.00	1.005	1.00	50.00	50.00	1.051	1.051	1.00
49	16:23	1.00	1.028	1.00	50.00	50.00	0.102	0.102	1.00
50	16:59	1.00	1.066	1.00	50.00	50.00	0.079	0.079	1.00

Quantitation Report File: 50BA1203

Data: 50BA1203.TI
12/03/93 16:16:00
Sample: SSTD050
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
51	C565 DIBENZOFURAN
52	C570 2,4-DINITROTOLUENE
53	C543 2,6-DINITROTOLUENE
54	C580 DIETHYL PHTHALATE
55	C585 4-CHLOROPHENYL PHENYLETHER
56	C590 FLUORENE
57	C595 4-NITROANILINE
58	C610 4,6-DINITRO-2-METHYLPHENOL
59	C615 N-NITROSODIPHENYLAMINE
60	C625 4-BROMOPHENYL PHENYLETHER
61	C630 HEXACHLOROBENZENE
62	C635 PENTACHLOROPHENOL
63	C640 PHENANTHRENE
64	C645 ANTHRACENE
65	C646 CARBAZOLE
66	C650 DI-N-BUTYL PHTHALATE
67	C655 FLUORANTHENE
68	C715 PYRENE
69	C720 BUTYL BENZYL PHTHALATE
70	C725 3,3'-DICHLOROBENZIDINE
71	C730 BENZO(A) ANTHRACENE
72	C745 BIS(2-ETHYLHEXYL) PHTHALATE
73	C740 CHRYSENE
74	C760 DI-N-OCTYL PHTHALATE
75	C765 BENZO(B) FLUORANTHENE
76	C770 BENZO(K) FLUORANTHENE
77	C775 BENZO(A) PYRENE
78	C780 INDENO(1,2,3-CD) PYRENE
79	C785 DIBENZ(A,H) ANTHRACENE
80	C790 BENZO(GHI) PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	168	991	16:31	3	1.037	A BB	88696.	50.000 NG/UL	1.27
52	165	1012	16:52	3	1.059	A BB	21157.	50.000 NG/UL	1.27
53	165	946	15:46	3	0.990	A BB	17249.	50.000 NG/UL	1.27
54	149	1074	17:54	3	1.123	A BB	78718.	50.000 NG/UL	1.27
55	204	1065	17:45	3	1.114	A BB	37946.	50.000 NG/UL	1.27
56	166	1052	17:32	3	1.100	A BB	66341.	50.000 NG/UL	1.27
57	138	1076	17:56	3	1.126	A BV	13941.	50.000 NG/UL	1.27
58	198	1084	18:04	4	0.893	A BB	8547.	50.000 NG/UL	1.27
59	169	1091	18:11	4	0.899	A VB	49101.	50.000 NG/UL	1.27
60	248	1149	19:09	4	0.946	A BB	20666.	50.000 NG/UL	1.27
61	284	1164	19:24	4	0.959	A BB	19424.	50.000 NG/UL	1.27
62	266	1203	20:03	4	0.991	A BB	8039.	50.000 NG/UL	1.27
63	178	1218	20:18	4	1.003	A BV	88400.	50.000 NG/UL	1.27

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
64	178	1226	20:26	4	1.010	M XX	86731.	50.000 NG/UL	1.27
65	167	1266	21:06	4	1.043	A BB	82718.	50.000 NG/UL	1.27
66	149	1369	22:49	4	1.128	A VB	143154.	50.000 NG/UL	1.27
67	202	1431	23:51	4	1.179	A VB	91176.	50.000 NG/UL	1.27
68	202	1467	24:27	5	0.865	M XX	95781.	50.000 NG/UL	1.27
69	149	1635	27:15	5	0.964	A BB	59834.	50.000 NG/ML	1.27
70	252	1708	28:28	5	1.007	A BB	21336.	50.000 NG/UL	1.27
71	228	1693	28:13	5	0.998	A BV	95319.	50.000 NG/UL	1.27
72	149	1766	29:26	5	1.041	A BB	94188.	50.000 NG/UL	1.27
73	228	1700	28:20	5	1.002	A VB	62969.	50.000 NG/UL	1.27
74	149	1888	31:28	6	0.965	A BB	136203.	50.000 NG/UL	1.27
75	252	1892	31:32	6	0.967	A BV	107367.	50.000 NG/UL	1.27
76	252	1896	31:36	6	0.969	A VB	45447.	50.000 NG/UL	1.27
77	252	1946	32:26	6	0.995	A BB	73287.	50.000 NG/UL	1.27
78	276	2174	36:14	6	1.111	M XX	49360.	50.000 NG/UL	1.27
79	278	2189	36:29	6	1.119	M XX	39554.	50.000 NG/UL	1.27
80	276	2229	37:09	6	1.140	M XX	37027.	50.000 NG/UL	1.27

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	16:31	1.00	1.037	1.00	50.00	50.00	1.517	1.517	1.00
52	16:52	1.00	1.059	1.00	50.00	50.00	0.362	0.362	1.00
53	15:46	1.00	0.990	1.00	50.00	50.00	0.295	0.295	1.00
54	17:54	1.00	1.123	1.00	50.00	50.00	1.346	1.346	1.00
55	17:45	1.00	1.114	1.00	50.00	50.00	0.649	0.649	1.00
56	17:32	1.00	1.100	1.00	50.00	50.00	1.135	1.135	1.00
57	17:56	1.00	1.126	1.00	50.00	50.00	0.238	0.238	1.00
58	18:04	1.00	0.893	1.00	50.00	50.00	0.101	0.101	1.00
59	18:11	1.00	0.899	1.00	50.00	50.00	0.579	0.579	1.00
60	19:09	1.00	0.946	1.00	50.00	50.00	0.244	0.244	1.00
61	19:24	1.00	0.959	1.00	50.00	50.00	0.229	0.229	1.00
62	20:03	1.00	0.991	1.00	50.00	50.00	0.095	0.095	1.00
63	20:18	1.00	1.003	1.00	50.00	50.00	1.042	1.042	1.00
64	20:26	1.00	1.010	1.00	50.00	50.00	1.023	1.023	1.00
65	21:06	1.00	1.043	1.00	50.00	50.00	0.975	0.975	1.00
66	22:49	1.00	1.128	1.00	50.00	50.00	1.688	1.688	1.00
67	23:51	1.00	1.179	1.00	50.00	50.00	1.075	1.075	1.00
68	24:27	1.00	0.865	1.00	50.00	50.00	1.148	1.148	1.00
69	27:15	1.00	0.964	1.00	50.00	50.00	0.717	0.717	1.00
70	28:28	1.00	1.007	1.00	50.00	50.00	0.256	0.256	1.00
71	28:13	1.00	0.998	1.00	50.00	50.00	1.143	1.143	1.00
72	29:26	1.00	1.041	1.00	50.00	50.00	1.129	1.129	1.00
73	28:20	1.00	1.002	1.00	50.00	50.00	0.755	0.755	1.00
74	31:28	1.00	0.965	1.00	50.00	50.00	2.111	2.111	1.00
75	31:32	1.00	0.967	1.00	50.00	50.00	1.664	1.664	1.00
76	31:36	1.00	0.969	1.00	50.00	50.00	0.704	0.704	1.00
77	32:26	1.00	0.995	1.00	50.00	50.00	1.136	1.136	1.00
78	36:14	1.00	1.111	1.00	50.00	50.00	0.765	0.765	1.00
79	36:29	1.00	1.119	1.00	50.00	50.00	0.613	0.613	1.00
80	37:09	1.00	1.140	1.00	50.00	50.00	0.574	0.574	1.00

11/15/93

EPA RAS c# 21170 SDG: EXQ02
EPA RAS c# 21244 SDG: HP076
EPA RAS c# 21107 SDG: CNN38
EPA RAS c# 21141 SDG: DFR57

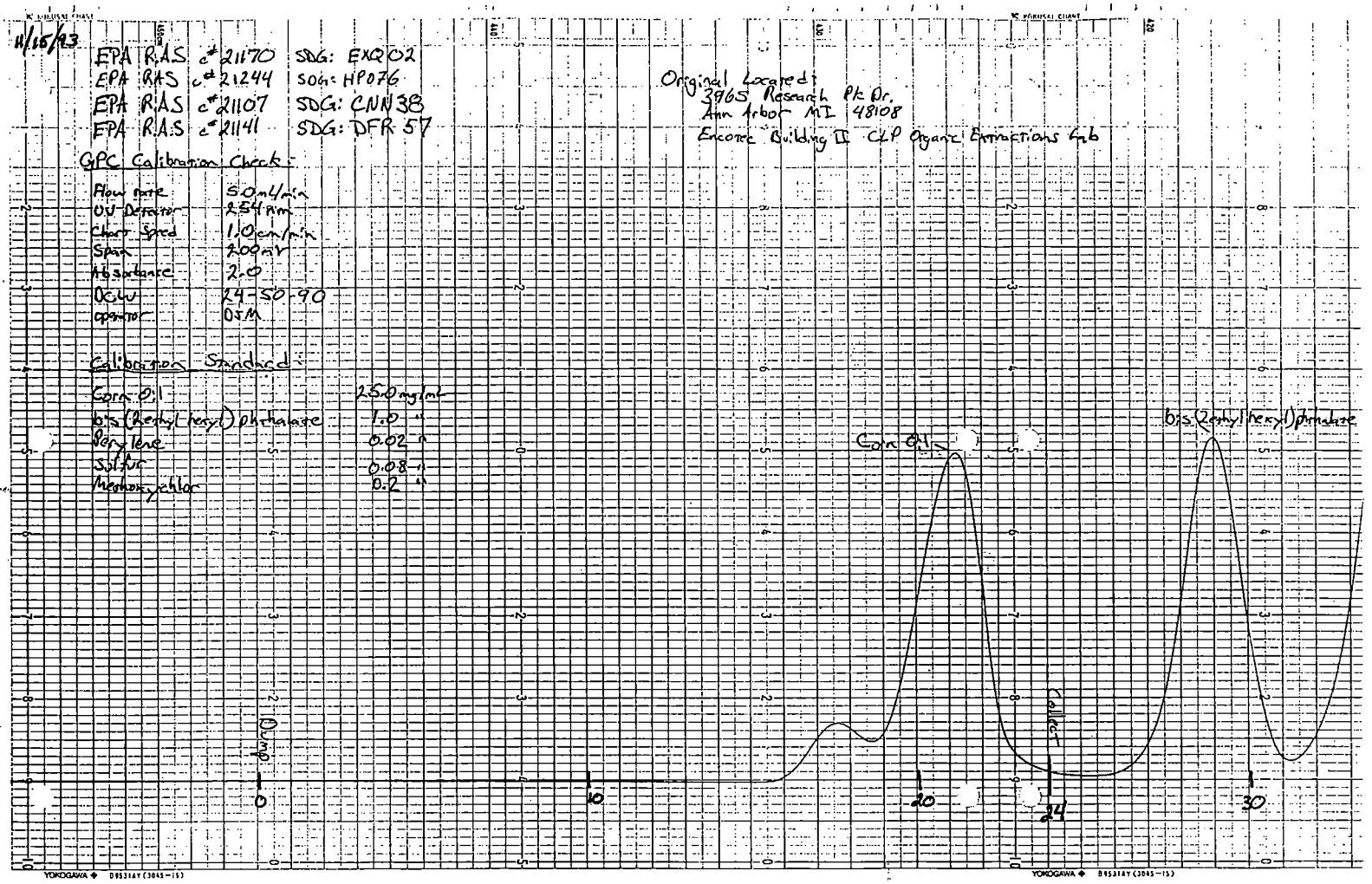
Original Located:
3965 Research Pk Dr.
Ann Arbor MI 48108
Encore Building II CLP Organic Extractions Lab

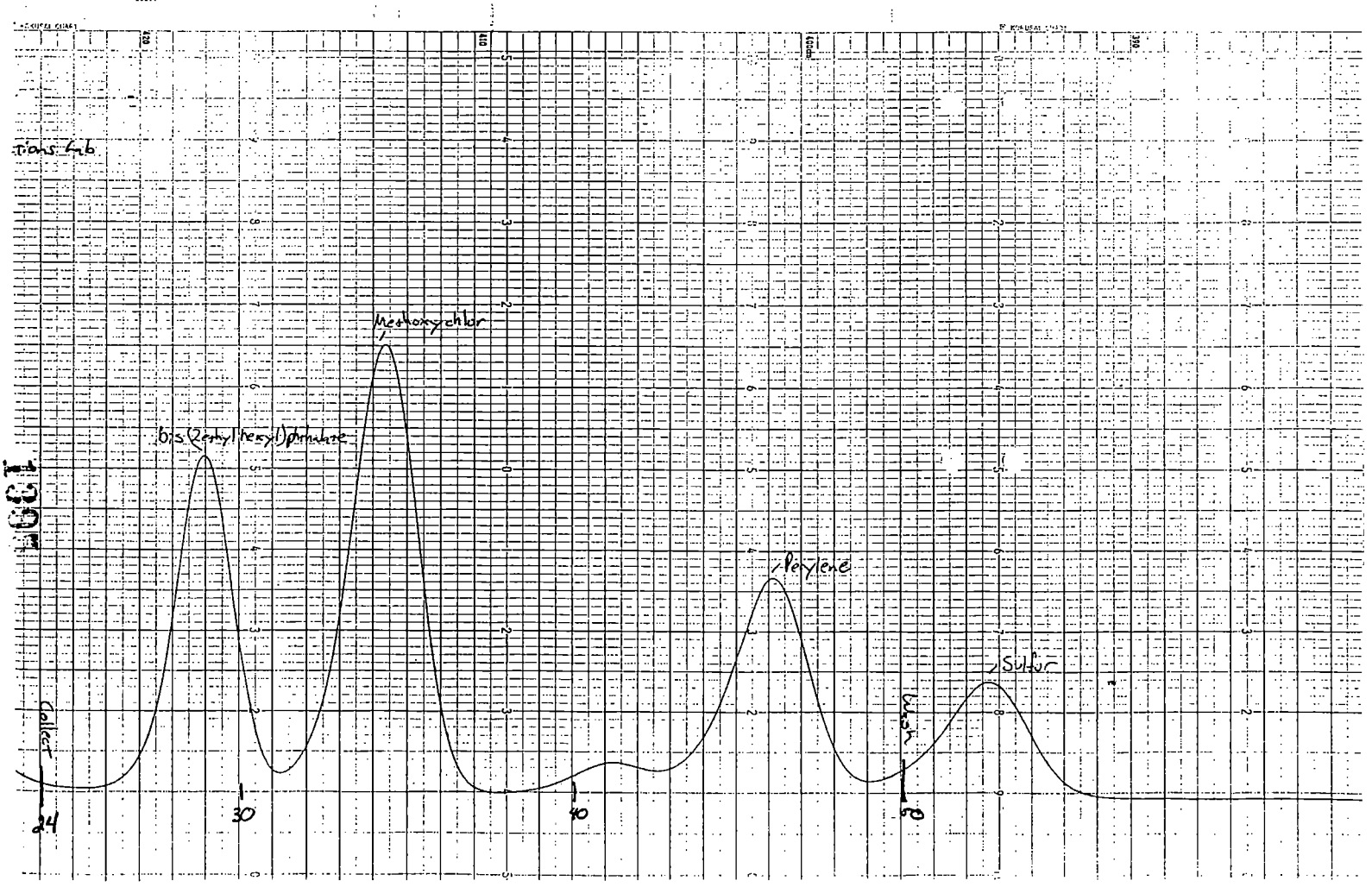
GPC Calibration Check:

Flow rate	5.0 ml/min
UV Detector	254 nm
Chart Speed	1.0 cm/min
Span	200 mV
Absorbance	2.0
Date	24-SEP-90
operator	DJM

Calibration Standard:

Corn Oil	250 mg/ml
bis(2-ethylhexyl)phthalate	1.0 "
Perylene	0.02 "
Sulfur	0.08 "
Methoxychlor	0.2 "





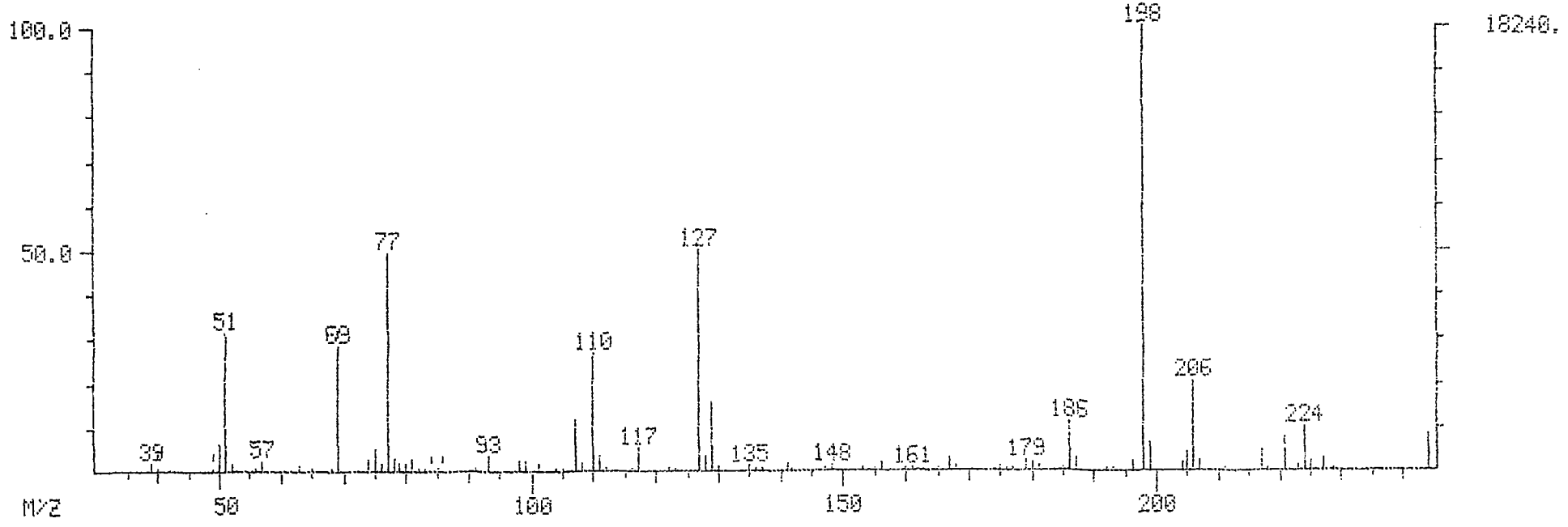
V SEMIVOLATILE RAW QC DATA

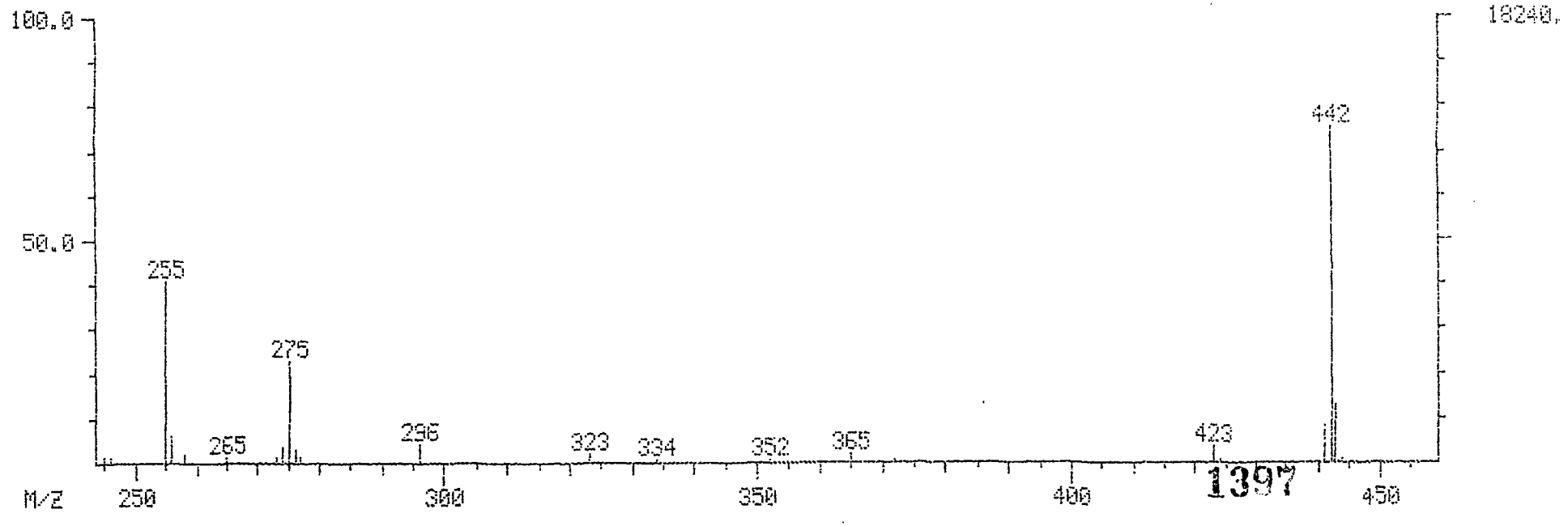
CASE # 21170
SDG # EXQ02

MASS SPECTRUM
11/20/93 10:51:00 + 10:45
SAMPLE: DFTPP TUNE
CONDS.: INST. 025 (40F2T018003T0310010HS)
#644 TO #646 SUMMED - #640

DATA: DFTPP1120Y #645
CALI: DFTPP1120Y #3

BASE M/Z: 198
RIC: 124928.



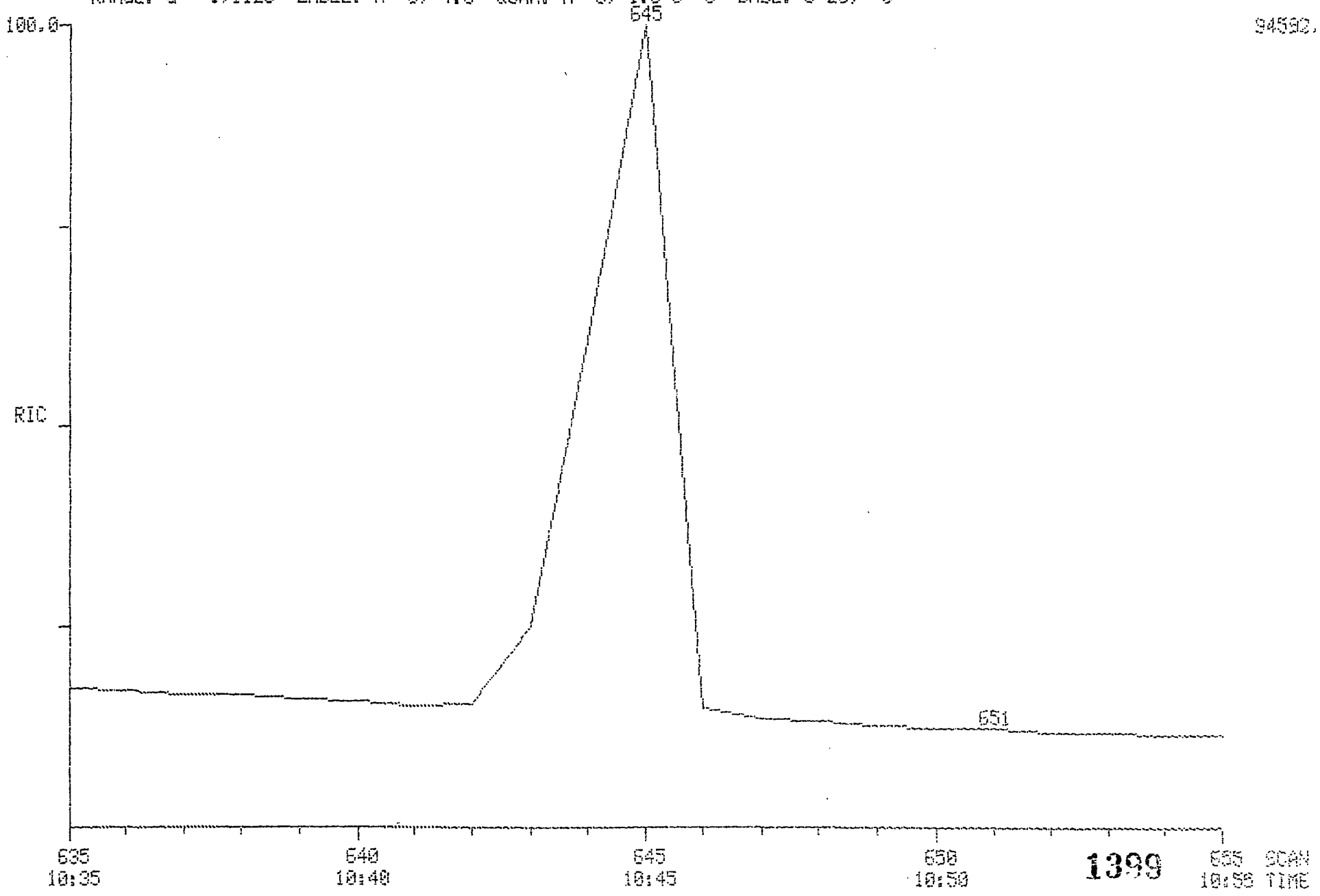


Mass List Data: DFTPP1120Y # 645 Base m/z: 198
11/20/93 10:51:00 + 10:45 Cali: DFTPP1120Y # 3 RIC: 124928.
Sample: DFTPP TUNE
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
#644 to #646 summed - #640

39		0.00	0.	Minima	Min Inten:	66.
444				Maxima	# 0	
Mass		% RA	Inten.	Mass	% RA	Inten.
39?		1.64	300.	175	1.34	245.
40	S	0.79	145.	176	0.74	135.
50		6.58	1200.	177	0.38	69.
51		31.36	5720.	179	2.49	454.
52		1.53	279.	180	1.68	306.
56		0.63	115.	181	1.29	236.
57		2.28	416.	185	0.70	127.
63		0.88	160.	186	10.94	1996.
65		0.58	106.	187	3.15	575.
69	S	28.55	5208.	192	0.50	92.
74		2.70	492.	193	0.53	97.
75		5.36	978.	196	2.59	473.
76		1.86	339.	198	100.00	18240.
77		49.47	9024.	199	6.47	1180.
78		3.09	563.	204	2.01	367.
79		1.81	330.	205	4.23	771.
80		1.57	286.	206	20.39	3720.
81		2.71	495.	207	2.51	458.
82		0.47	86.	211	0.83	151.
83		0.65	118.	217	4.42	807.
91		0.41	74.	221	7.59	1384.
92		0.38	69.	223	0.92	167.
93		3.47	633.	224	10.07	1836.
98		2.10	383.	225	2.34	426.
99		2.04	373.	227	3.20	583.
101		1.60	291.	229	0.46	83.
104		0.53	96.	244	8.17	1490.
105		0.46	83.	245	1.03	187.
107		11.67	2128.	246	1.10	200.
108		1.84	335.	255	40.53	7392.
110		26.75	4880.	256	5.54	1010.
111		3.34	609.	258	1.51	275.
117		4.96	904.	265	0.88	161.
122		0.38	69.	273	0.99	180.
123		0.66	121.	274	3.56	649.
127		50.18	9152.	275	22.63	4128.
128		3.36	613.	276	2.67	487.
129		15.55	2836.	277	1.18	216.
130		1.18	215.	296	3.90	711.
135		1.11	203.	323	1.49	272.
137		0.38	70.	334	0.83	151.
141		1.56	284.	352	0.58	105.
147		0.56	102.	365	1.72	313.
148		1.43	260.	372	0.87	159.
153		0.38	69.	423	3.61	659.
155		0.64	116.	424	0.46	83.
156		1.60	292.	441	8.02	1462.
161		0.59	107.	442	74.74	13632.
167		3.08	561.	443	12.85	2344.
168		1.09	198.	444	0.70	128.

RIC
11/20/93 10:51:00
SAMPLE: DFTPP TUNE
CONDS.: INST. 025 (40F2T0180@3T0310@10H9)
RANGE: G 1,1128 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

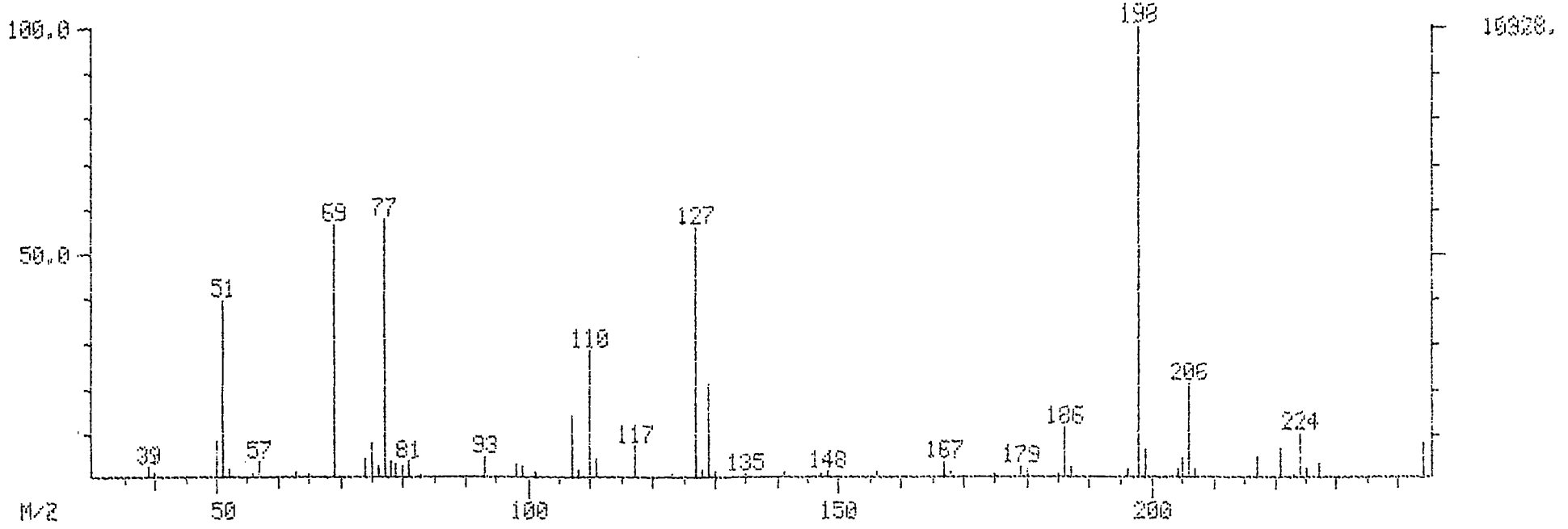
DATA: DFTPP1120Y #644 SCANS 635 TO 655
CALI: DFTPP1120Y #3

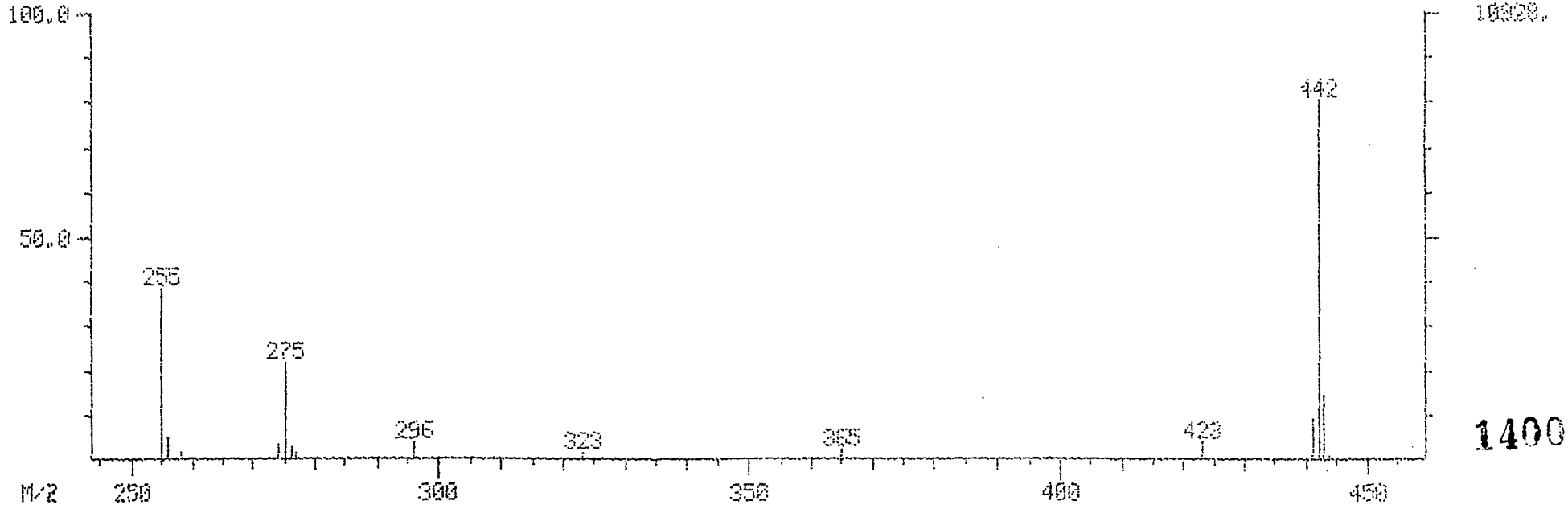


MASS SPECTRUM
11/24/93 11:41:00 + 24:38
SAMPLE: SSTD050
CONDS.: INST. 025 (40F2T018009T031001OH9)
#1477 TO #1479 SUMMED - #1470

DATA: 50BY1124Y #1478
CALI: 50BY1124Y #3

BASE M/Z: 198
RIC: 79072.





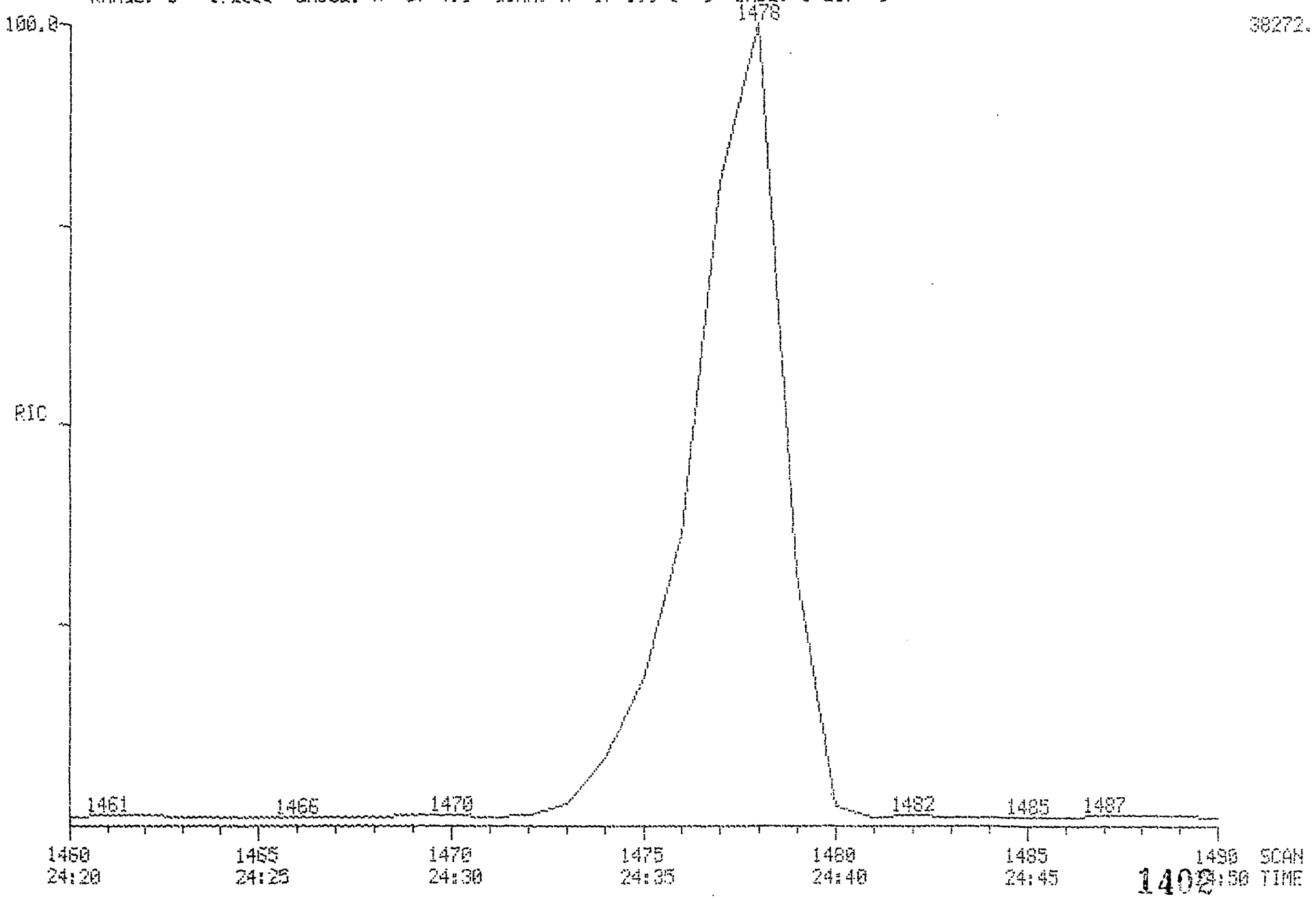
1400

Mass List Data: 50BY1124Y #1478 Base m/z: 198
11/24/93 11:41:00 + 24:38 Cali: 50BY1124Y # 3 RIC: 79872.
Sample: SSTD050
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
#1477 to #1479 summed - #1470

39		0.00	0.	Minima	Min Inten:	0.
444				Maxima	# 0	
Mass		% RA	Inten.	Mass	% RA	Inten.
39?		2.17	237.	205	4.15	453.
40	S	1.18	129.	206	20.79	2272.
50		8.42	920.	207	2.03	222.
51		39.82	4352.	217	4.71	515.
52		2.01	220.	221	6.17	674.
56		0.63	69.	223	0.59	64.
57		3.47	379.	224	10.12	1106.
63		1.43	156.	225	1.78	195.
65		0.48	52.	227	2.86	313.
69		56.59	6184.	244	7.86	859.
74		3.94	431.	255	38.58	4216.
75		7.46	815.	256	4.85	530.
76		2.14	234.	258	1.21	132.
77		57.61	6296.	274	2.90	317.
78		3.47	379.	275	21.49	2348.
79		2.67	292.	276	2.09	228.
80		2.34	256.	277	0.98	107.
81		3.48	380.	296	3.34	365.
83		0.52	57.	323	1.15	126.
93		4.40	481.	365	1.61	176.
98		2.75	300.	423	3.32	363.
99		2.56	280.	441	8.67	948.
101		1.39	152.	442	80.09	8752.
107		14.09	1540.	443	14.17	1548.
108		1.51	165.	444	0.62	68.
110		28.70	3136.			
111		3.97	434.			
117		7.00	765.			
123		0.50	55.			
127		55.93	6112.			
128		1.90	208.			
129		21.01	2296.			
130		1.10	120.			
135		0.50	55.			
141		1.27	139.			
147		0.50	55.			
148		1.35	148.			
156		1.21	132.			
167		3.56	389.			
168		1.23	134.			
175		0.63	69.			
179		2.30	251.			
180		1.61	176.			
185		0.52	57.			
186		10.80	1180.			
187		2.49	272.			
196		1.98	216.			
198		100.00	10928.			
199		6.43	703.			
204		1.75	191.			

RIC
11/24/93 11:41:00
SAMPLE: SSTD050
CONDS.: INST. 025 (40F2TO180@5TO310@10H3)
RANGE: G 1.2300 LABEL: N 0. 4.0 QUAN: A 0. 1.0 J 0 BASE: U 20. 3

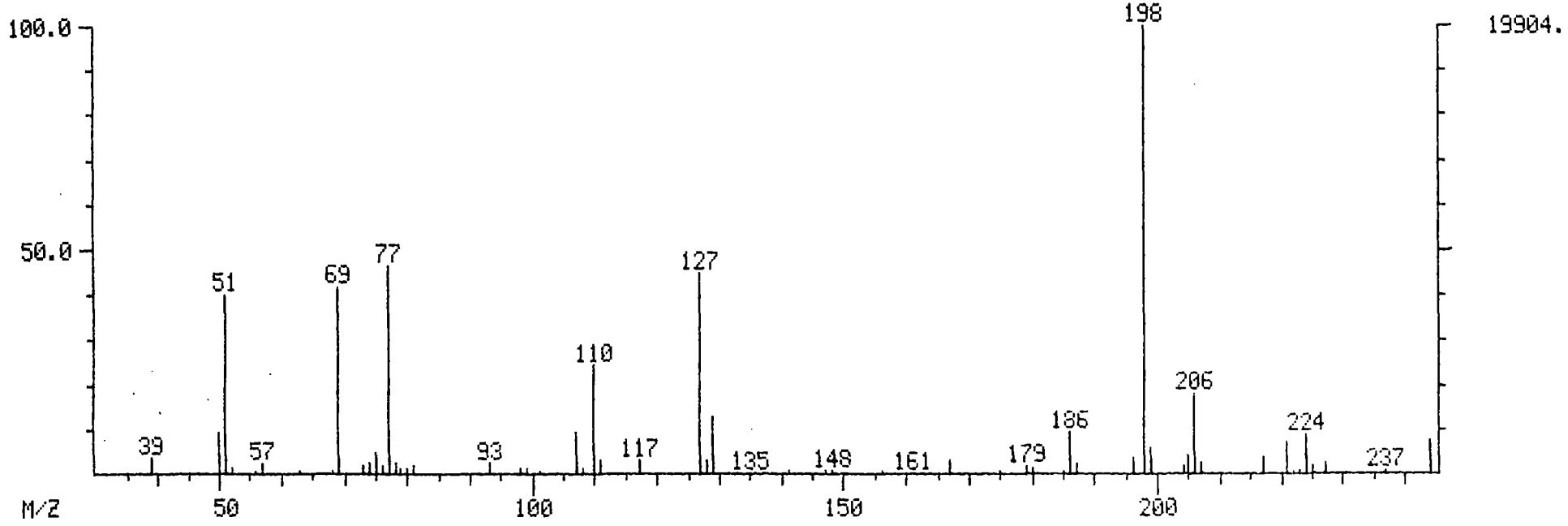
DATA: 50BY1124Y #1477 SCANS 1460 TO 1490
CALI: 50BY1124Y #3

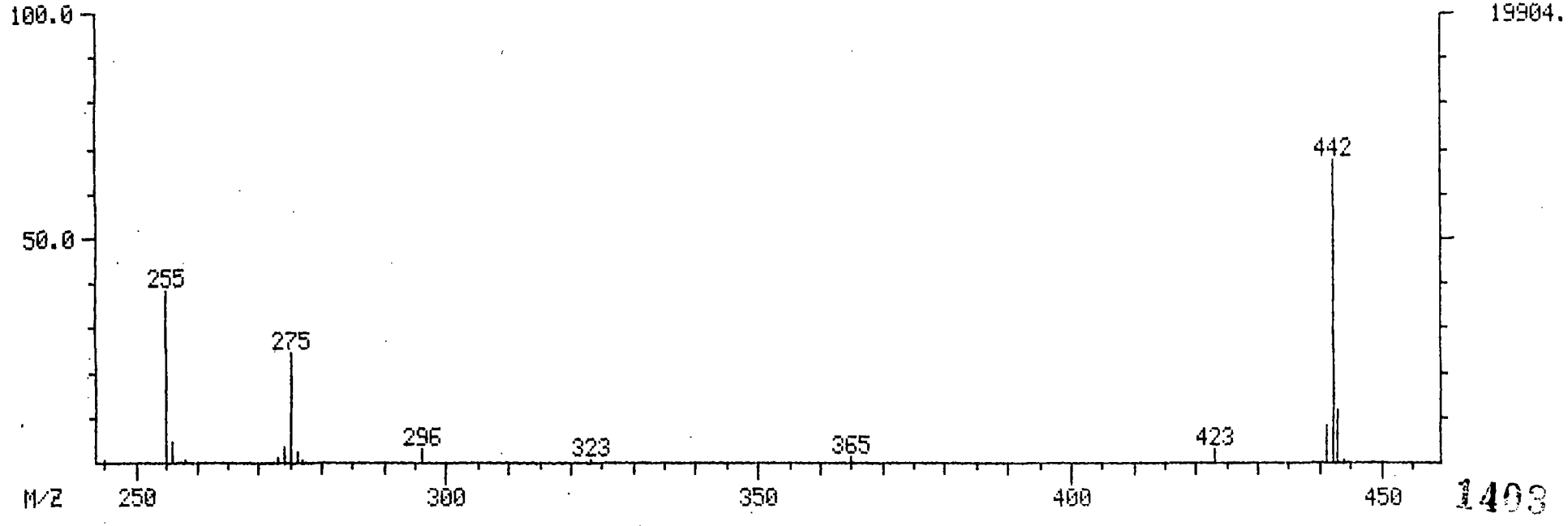


MASS SPECTRUM
11/30/93 10:58:00 + 22:11
SAMPLE: SSTD050
CONDS.: INST. 001
#1330 TO #1332 SUMMED - #1324

DATA: 50BA1130 #1331
CALI: 50BA1130 #3

BASE M/Z: 198
RIC: 125824.



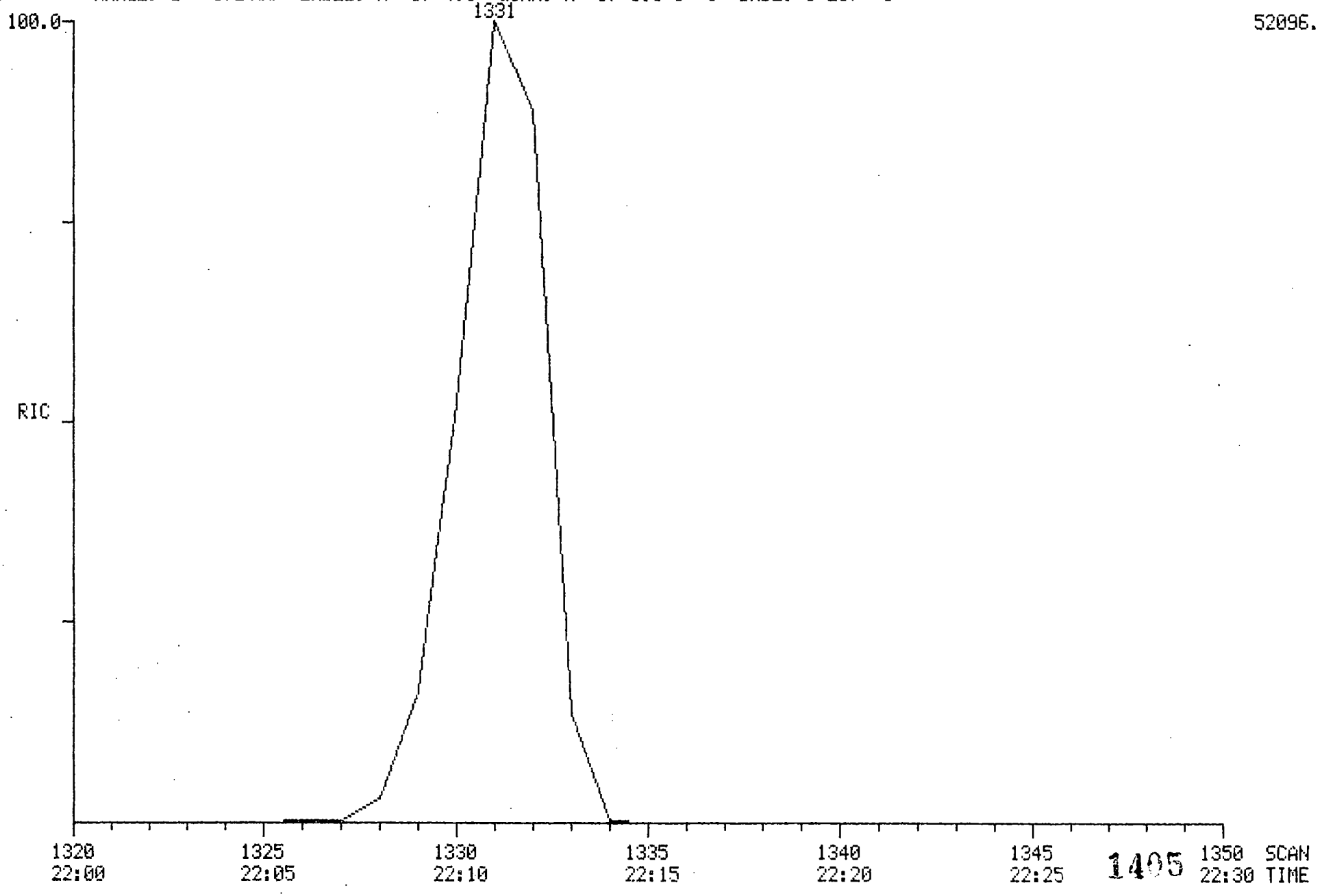


Mass List Data: 50BA1130 #1331 Base m/z: 198
11/30/93 10:58:00 + 22:11 Cali: 50BA1130 # 3 RIC: 125824.
Sample: SSTD050
Conds.: INST. 001
#1330 to #1332 summed - #1324

39	0.00	0.	Minima	Min Inten:		0.
444			Maxima	#	0	
Mass	% RA	Inten.	Mass		% RA	Inten.
39?	3.21	639.	205		3.93	782.
50	9.36	1864.	206		17.99	3580.
51	40.27	8016.	207		2.14	426.
52	1.28	255.	217		3.52	700.
56	0.59	117.	221		7.20	1434.
57	2.49	495.	222		0.34	68.
63	0.75	150.	223		0.81	162.
68	0.39	78.	224		8.65	1722.
69	41.80	8320.	225		1.99	397.
73	1.76	350.	227		2.12	421.
74	2.51	500.	237		0.63	125.
75	4.89	974.	244		7.44	1480.
76	1.58	314.	245		0.30	59.
77	46.46	9248.	246		0.28	56.
78	2.52	501.	255		38.30	7624.
79	1.11	220.	256		4.58	911.
80	1.02	204.	258		0.77	153.
81	1.96	391.	273		1.11	221.
93	2.24	445.	274		3.39	675.
98	1.04	207.	275		24.36	4848.
99	1.28	254.	276		2.38	474.
101	0.68	135.	277		0.41	82.
107	9.16	1824.	296		2.88	574.
108	1.09	217.	323		0.77	153.
110	24.24	4824.	365		1.07	213.
111	2.85	567.	372		0.27	54.
117	3.19	635.	423		3.19	634.
127	44.53	8864.	441		7.87	1566.
128	2.87	571.	442		67.28	13392.
129	12.52	2492.	443		11.90	2368.
130	0.27	53.	444		0.34	67.
135	0.27	53.				
141	0.84	168.				
147	0.79	158.				
148	0.84	167.				
149	0.29	57.				
156	0.78	156.				
161	0.28	56.				
167	2.68	534.				
168	0.26	51.				
175	0.67	133.				
179	1.76	351.				
180	0.98	196.				
185	0.37	74.				
186	9.52	1894.				
187	2.24	445.				
196	3.77	751.				
198	100.00	19904.				
199	5.79	1152.				
204	1.86	370.				

RIC
11/30/93 10:58:00
SAMPLE: SSTD050
CONDS.: INST. 001
RANGE: G 1,2400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

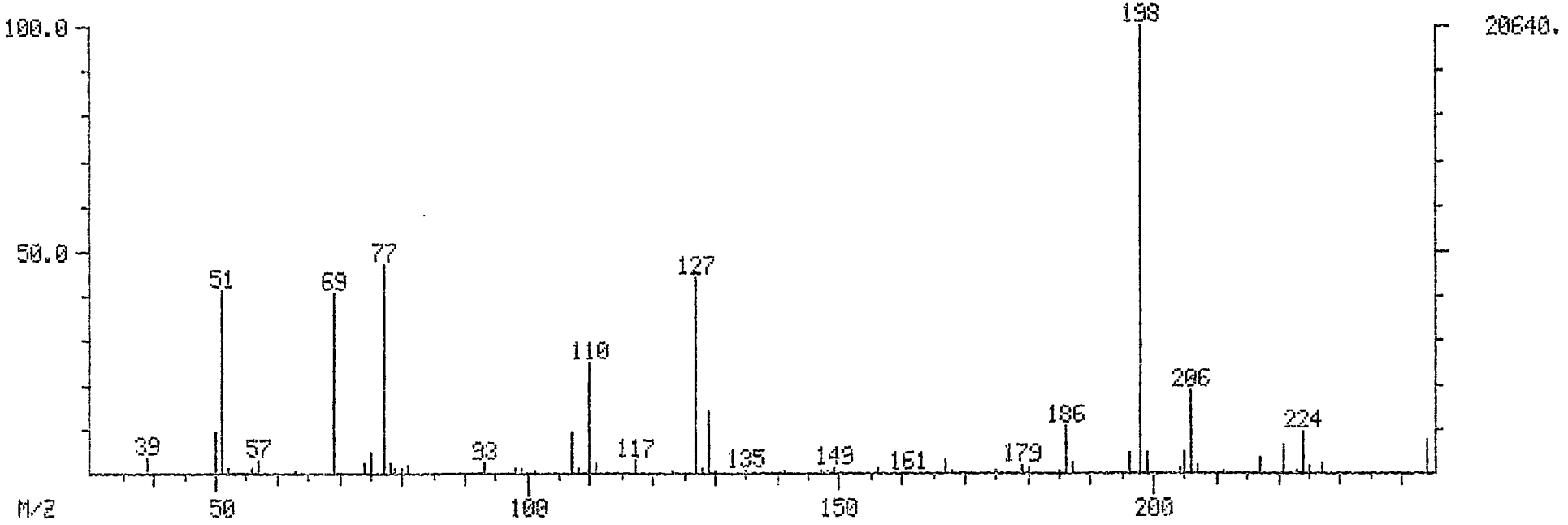
DATA: 50BA1130 #1330 SCANS 1320 TO 1350
CALI: 50BA1130 #3

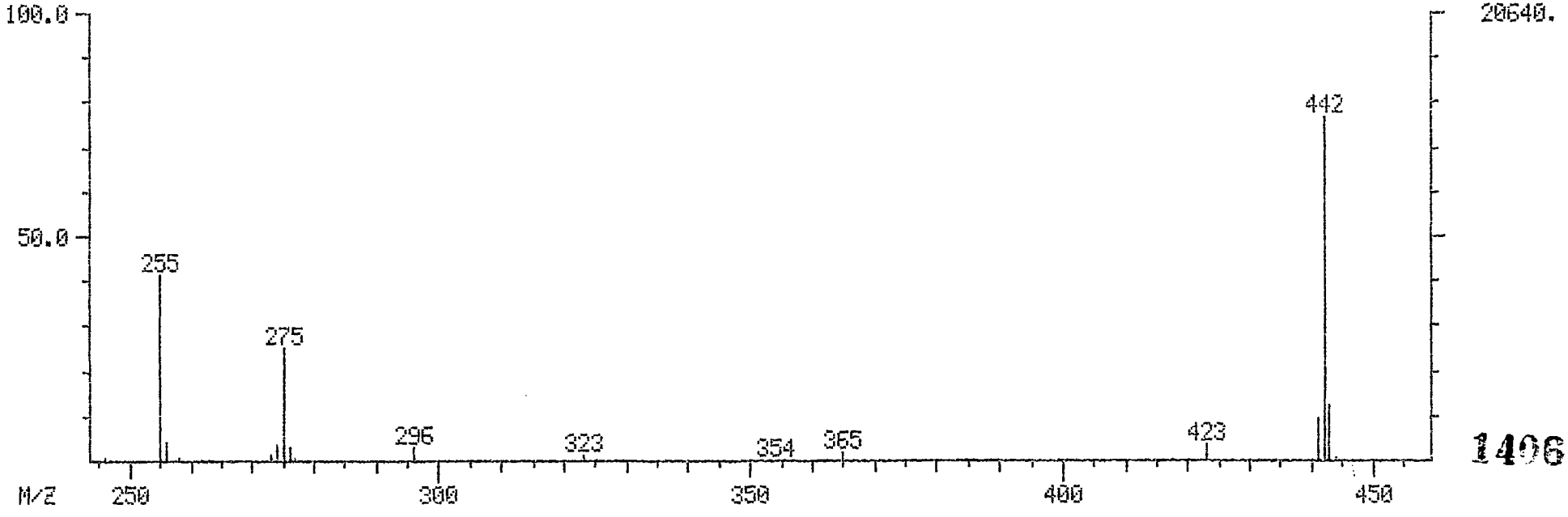


MASS SPECTRUM
12/01/93 18:17:00 + 22:12
SAMPLE: SSTD050
CONDS.: INST. 001
#1331 TO #1333 SUMMED - #1326

DATA: 50BA1201A1 #1332
CALI: 50BA1201A1 #3

BASE M/Z: 198
RIC: 134400.



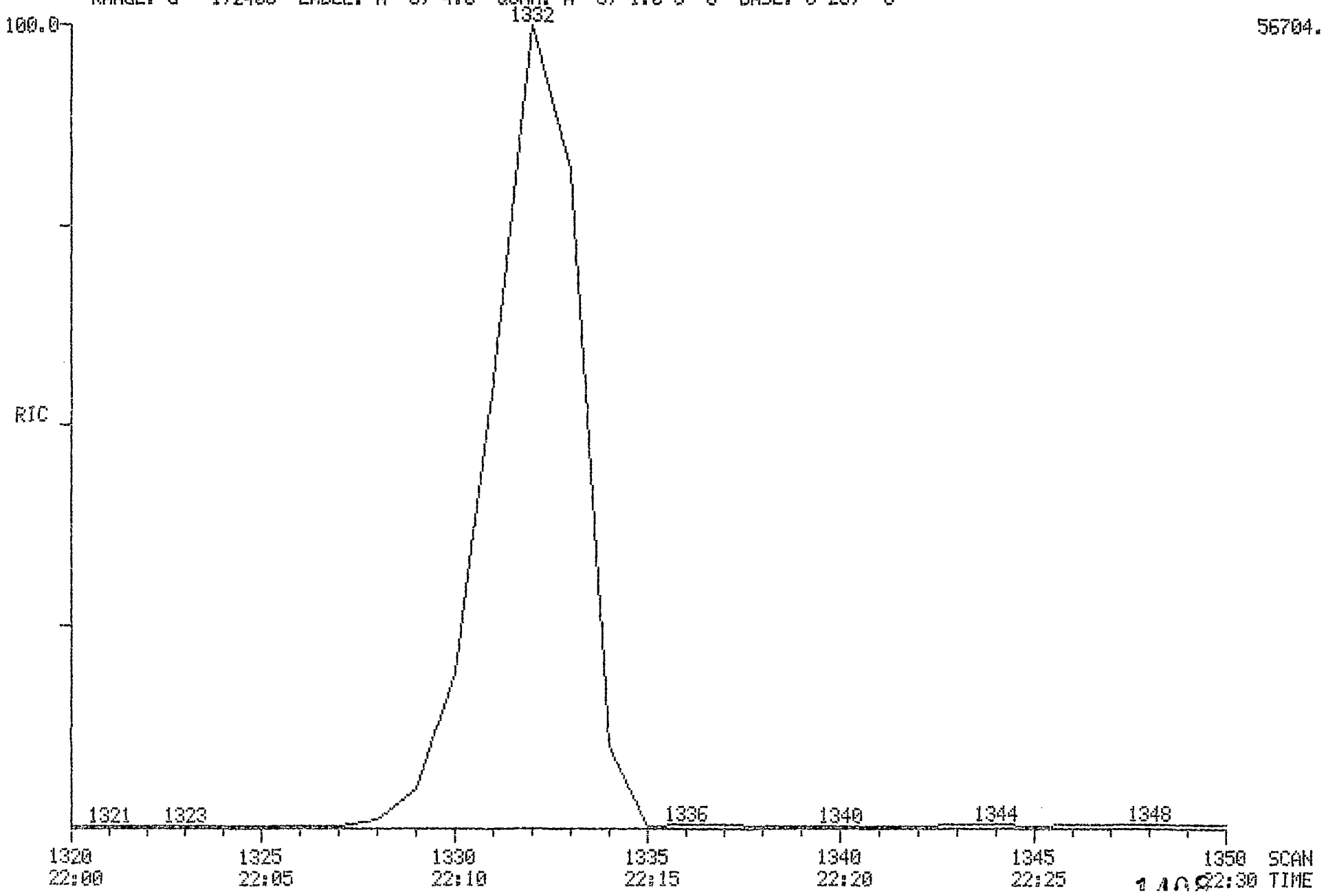


Mass List Data: 50BA1201A1 #1332 Base m/z: 198
12/01/93 18:17:00 + 22:12 Cali: 50BA1201A1 # 3 RIC: 134400.
Sample: SSTD050
Conds.: INST. 001
#1331 to #1333 summed - #1326

39	0.00	0.	Minima	Min Inten:		0.
444			Maxima	#	0	
Mass	% RA	Inten.	Mass		% RA	Inten.
39?	3.62	747.	198		100.00	20640.
50	9.57	1976.	199		4.69	967.
51	41.01	8464.	204		0.92	190.
52	1.25	259.	205		4.93	1017.
56	0.92	189.	206		18.35	3788.
57	2.79	575.	207		1.87	387.
63	0.84	174.	211		0.33	68.
69	40.85	8432.	217		3.64	752.
73	0.25	51.	221		6.50	1342.
74	2.54	524.	223		0.32	66.
75	4.94	1019.	224		9.19	1896.
77	47.29	9760.	225		2.02	417.
78	2.48	511.	227		2.35	485.
79	0.88	182.	244		7.75	1600.
80	1.24	255.	246		0.54	112.
81	1.95	402.	255		41.55	8576.
93	2.24	463.	256		4.30	888.
98	1.18	244.	258		0.87	180.
99	1.03	212.	273		0.89	184.
101	0.70	144.	274		3.77	778.
104	0.24	50.	275		24.96	5152.
107	9.46	1952.	276		2.72	562.
108	1.34	277.	277		0.30	62.
110	25.19	5200.	296		3.19	658.
111	2.34	484.	323		1.11	229.
117	3.14	648.	354		0.27	56.
123	0.50	104.	365		1.65	341.
127	44.19	9120.	372		0.29	59.
128	1.24	255.	423		3.63	749.
129	13.93	2876.	424		0.27	56.
130	0.55	113.	441		9.53	1966.
135	0.30	61.	442		76.59	15808.
141	0.42	86.	443		12.07	2492.
142	0.27	55.	444		0.63	130.
147	0.31	64.				
148	0.69	143.				
149	0.96	198.				
155	0.28	57.				
156	0.89	184.				
161	0.26	54.				
167	2.82	583.				
168	0.31	63.				
175	0.72	149.				
179	1.92	396.				
180	1.15	238.				
181	0.29	60.				
185	0.63	130.				
186	10.39	2144.				
187	2.29	472.				
196	4.65	959.				

RIC
12/01/93 18:17:00
SAMPLE: SSTD050
CONDS.: INST. 001
RANGE: G 1,2400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

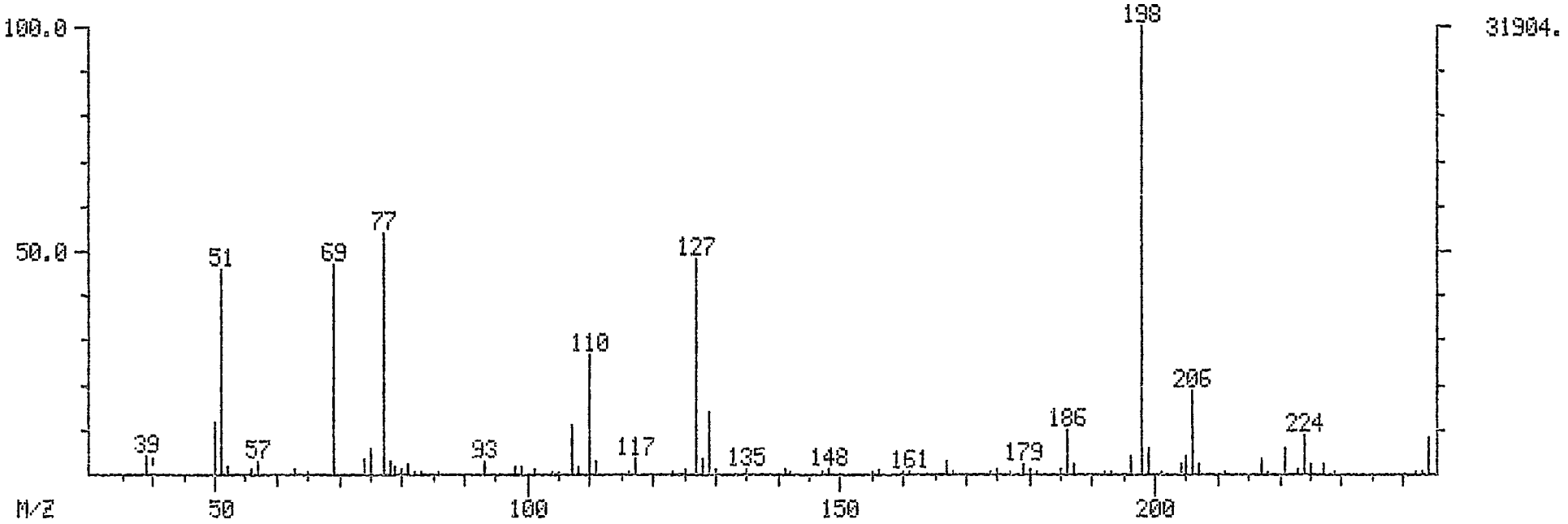
DATA: 50BA1201A1 #1331 SCANS 1320 TO 1350
CALI: 50BA1201A1 #3

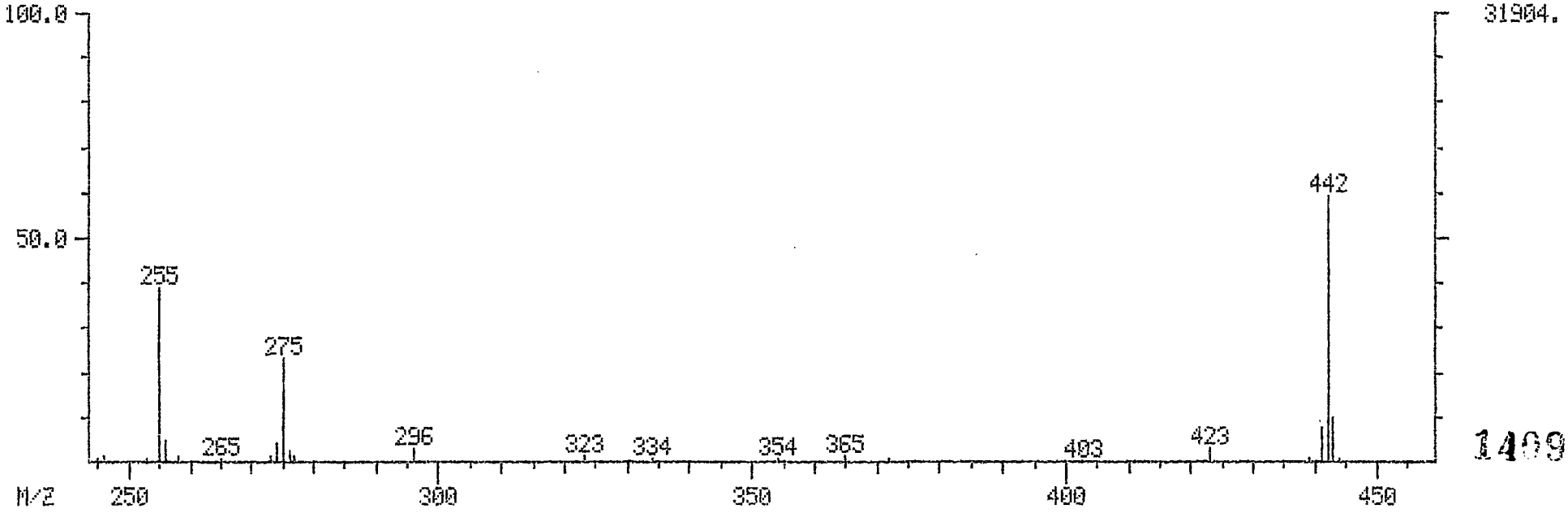


MASS SPECTRUM
12/02/93 11:31:00 + 22:10
SAMPLE:
CONDS.: INST. 001
#1329 TO #1331 SUMMED - #1323

DATA: DFTPP1202A #1330
CALI: DFTPP1202A #3

BASE M/Z: 198
RIC: 219392.



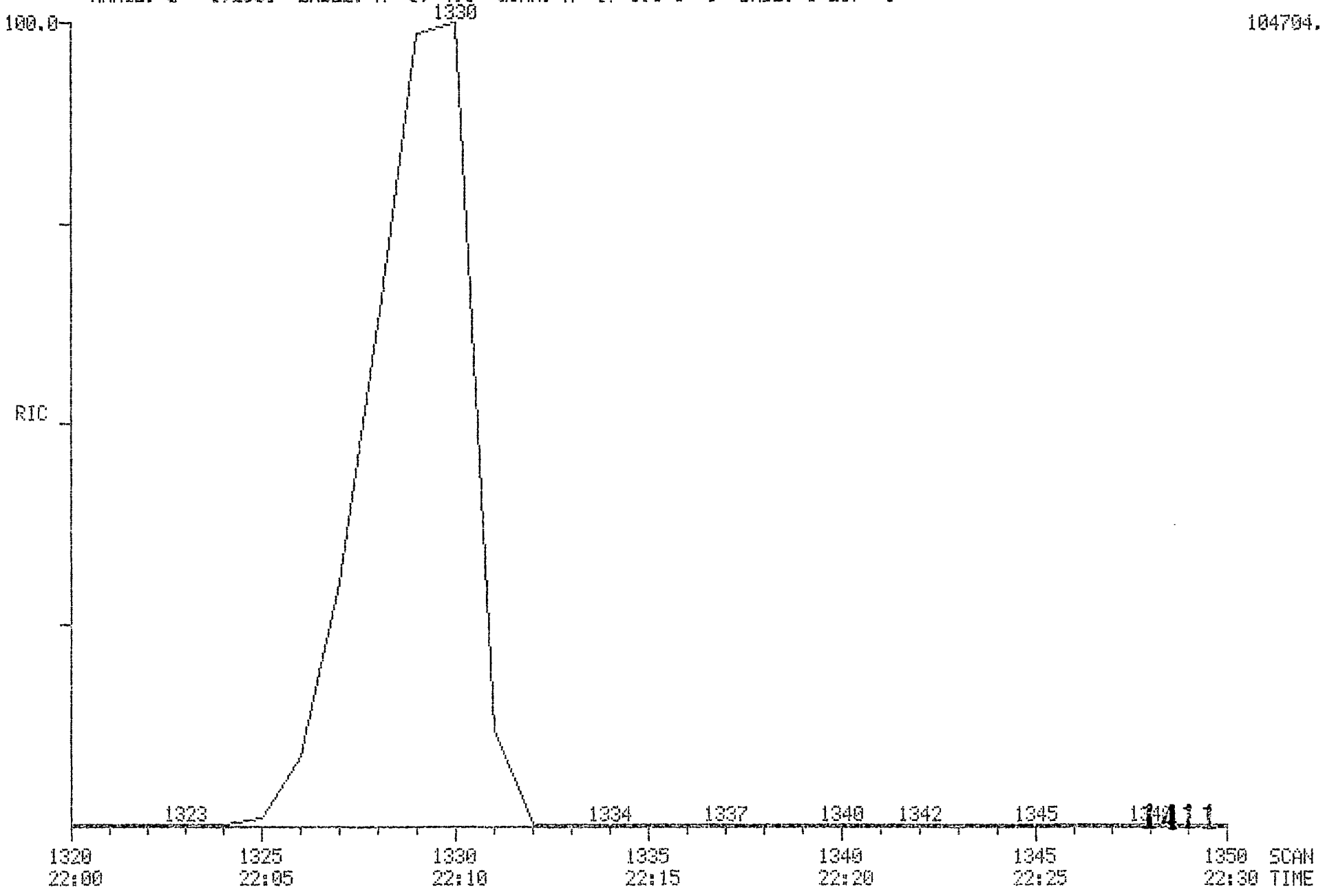


Mass List Data: DFTPP1202A #1330 Base m/z: 198
12/02/93 11:31:00 + 22:10 Cali: DFTPP1202A # 3 RIC: 219392.
Sample:
Conds.: INST. 001
#1329 to #1331 summed - #1323

38	0.00	0.	Minima	Min Inten:		111.
444			Maxima	#	0	
Mass	% RA	Inten.	Mass		% RA	Inten.
39?	4.07	1298.	180		1.41	451.
50	11.46	3656.	181		0.61	195.
51	45.89	14640.	185		1.01	321.
52	2.02	643.	186		9.94	3172.
56	0.89	283.	187		2.47	789.
57	3.04	969.	192		0.59	187.
63	1.20	384.	193		0.64	203.
65	0.66	211.	196		4.19	1336.
69	47.29	15088.	198		100.00	31904.
74	3.22	1028.	199		5.82	1858.
75	5.79	1848.	201		0.38	120.
77	53.96	17216.	204		2.45	781.
78	2.85	908.	205		4.12	1316.
79	1.58	503.	206		18.48	5896.
80	1.29	410.	207		2.18	696.
81	2.57	821.	211		0.61	196.
82	0.50	158.	217		3.74	1192.
83	0.62	199.	218		0.39	123.
86	0.38	122.	221		5.86	1870.
93	2.67	853.	223		1.16	370.
98	1.94	618.	224		8.99	2868.
99	1.56	497.	225		2.11	674.
101	1.20	383.	227		2.49	794.
104	0.50	158.	229		0.59	187.
105	0.54	172.	242		0.37	117.
107	10.77	3436.	243		0.41	130.
108	1.75	558.	244		8.14	2596.
110	26.98	8608.	245		0.86	273.
111	2.98	950.	246		0.92	295.
116	0.40	128.	253		0.50	159.
117	3.68	1174.	255		39.17	12496.
123	0.79	252.	256		4.70	1498.
125	0.96	306.	258		1.43	457.
127	48.24	15392.	265		0.39	125.
128	3.45	1102.	273		1.28	408.
129	13.77	4392.	274		4.02	1284.
130	0.89	284.	275		23.24	7416.
135	0.93	296.	276		2.43	776.
141	1.29	412.	277		0.90	288.
142	0.39	125.	296		2.88	919.
147	0.66	212.	323		1.39	443.
148	0.96	306.	334		0.68	216.
155	0.75	238.	354		0.40	129.
156	1.32	420.	365		1.34	429.
161	0.56	178.	372		0.64	205.
167	3.05	974.	423		3.13	998.
168	0.61	195.	441		7.74	2468.
174	0.56	180.	442		59.08	18848.
175	1.05	334.	443		9.89	3156.
179	2.07	659.	444		0.75	240.

RIC
12/02/93 11:31:00
SAMPLE:
CONDS.: INST. 001
RANGE: G 1,2081 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

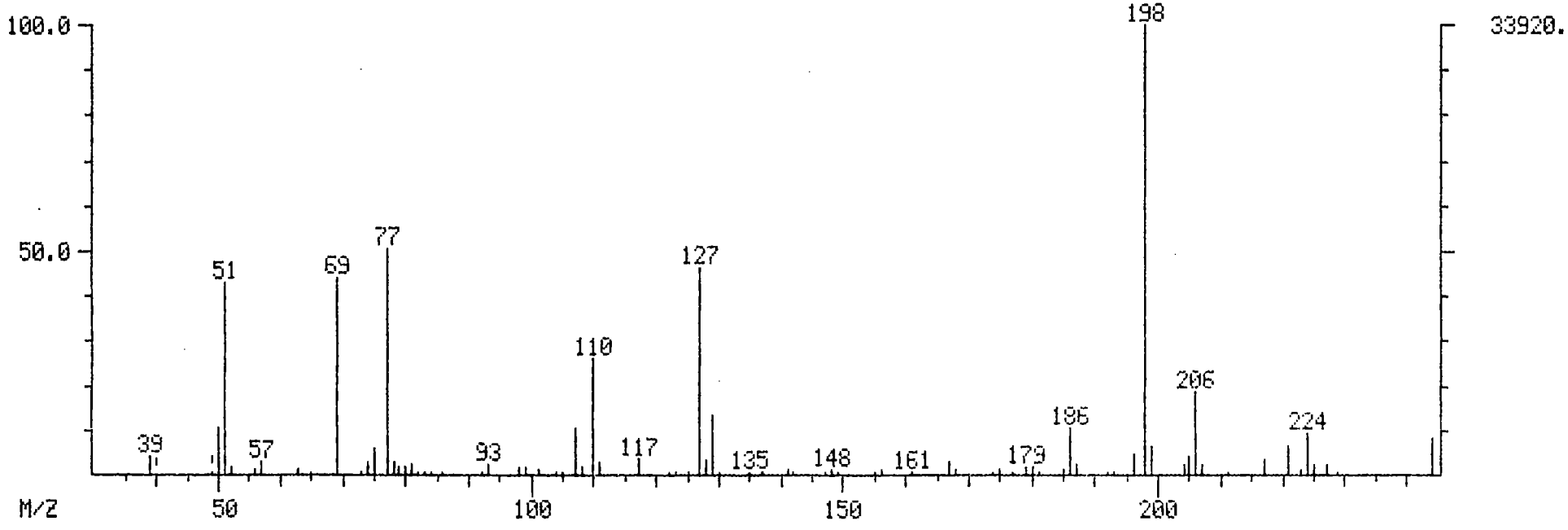
DATA: DFTPP1202A #1329 SCANS 1320 TO 1350
CALI: DFTPP1202A #3

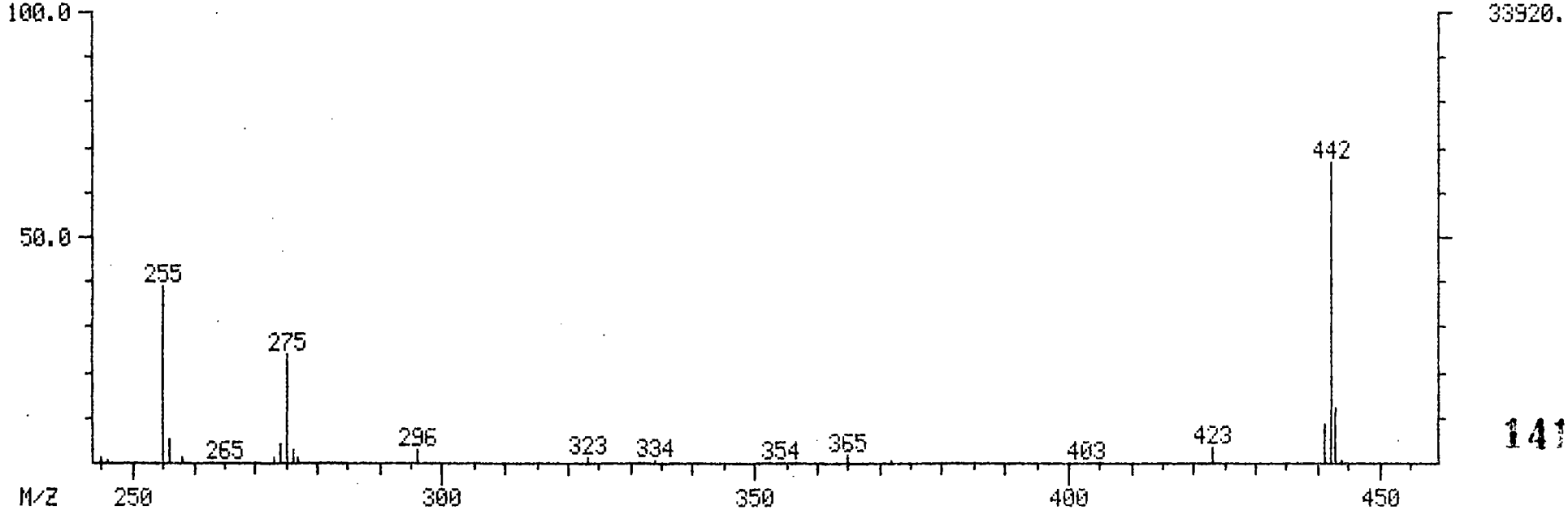


MASS SPECTRUM
12/03/93 16:16:00 + 22:09
SAMPLE:
CONDS.: INST. 001
#1328 TO #1330 SUMMED - #1324

DATA: 50BA1203 #1329
CALI: 50BA1203 #3

BASE M/Z: 198
RIC: 232192.





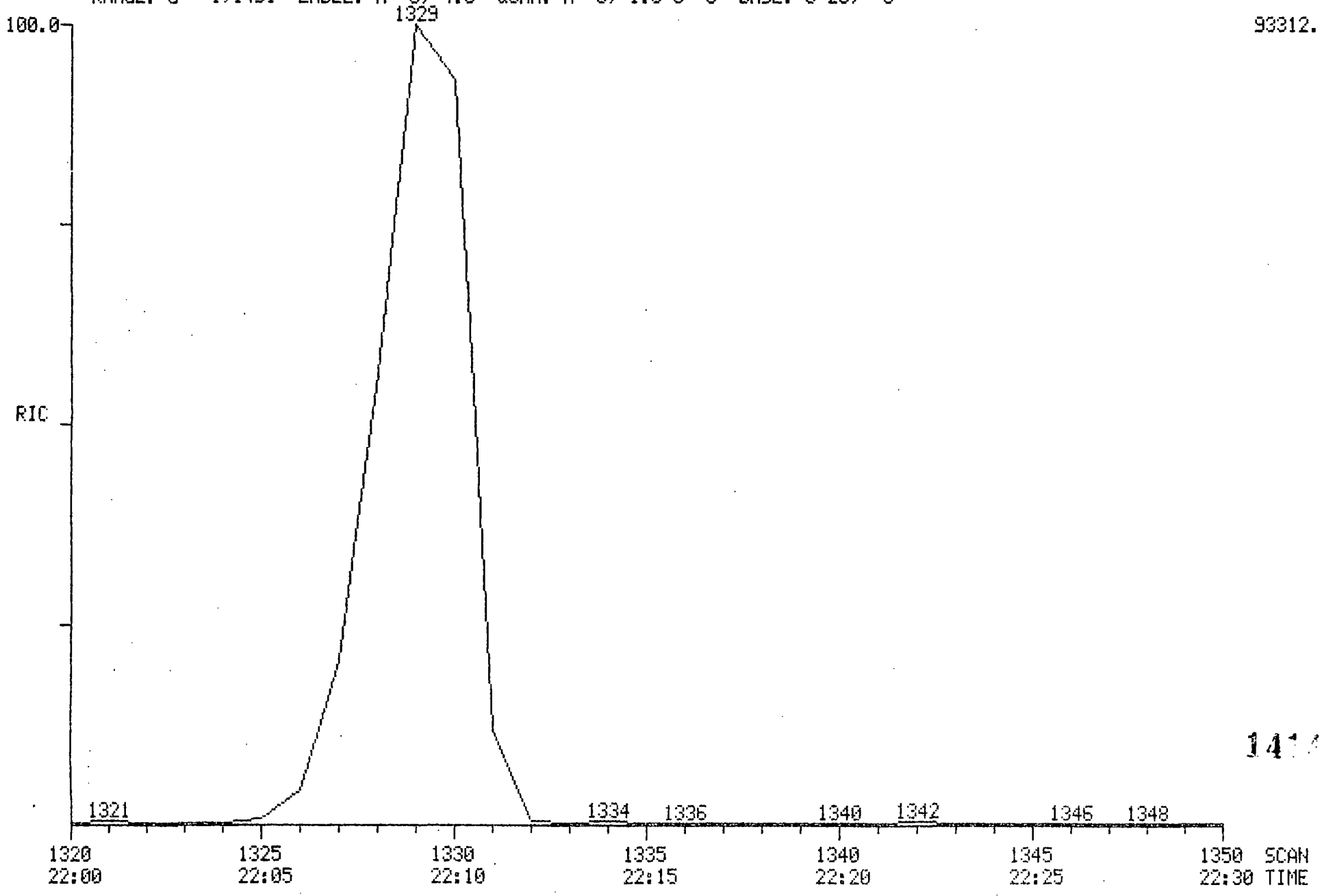
1412

Mass List Data: 50BA1203 #1329 Base m/z: 198
12/03/93 16:16:00 + 22:09 Cali: 50BA1203 # 3 RIC: 232192.
Sample:
Conds.: INST. 001
#1328 to #1330 summed - #1324

38	0.00	0.	Minima	Min Inten:		84.
444			Maxima	#	0	
Mass	% RA	Inten.	Mass		% RA	Inten.
39?	4.09	1386.	161		0.65	221.
49 S	0.32	110.	167		3.11	1054.
50	10.22	3468.	168		0.89	303.
51	43.16	14640.	174		0.38	130.
52	1.91	649.	175		0.94	318.
56	1.17	397.	177		0.51	173.
57	2.93	995.	179		1.94	657.
63	1.29	439.	180		1.52	517.
65	0.65	220.	181		0.54	183.
69	44.34	15040.	185		0.98	333.
73	0.65	220.	186		10.25	3476.
74	2.88	977.	187		2.52	854.
75	5.71	1936.	192		0.45	151.
77	50.47	17120.	193		0.45	151.
78	2.97	1007.	196		4.43	1504.
79	1.79	607.	198		100.00	33920.
80	1.52	515.	199		6.20	2104.
81	2.34	794.	204		2.31	783.
82	0.37	124.	205		4.17	1414.
83	0.55	186.	206		18.73	6352.
84	0.35	120.	207		2.13	721.
86	0.46	157.	211		0.77	261.
92	0.42	141.	217		3.78	1282.
93	2.56	868.	221		6.49	2200.
98	1.75	592.	223		0.98	332.
99	1.58	535.	224		9.09	3084.
101	1.26	429.	225		2.22	753.
104	0.45	152.	227		2.37	803.
105	0.54	182.	229		0.38	130.
107	10.44	3540.	244		8.03	2724.
108	1.57	533.	245		1.11	375.
110	26.37	8944.	246		0.48	163.
111	2.80	949.	255		39.20	13296.
117	3.41	1158.	256		5.20	1764.
122	0.32	108.	258		1.09	370.
123	0.59	199.	273		1.23	418.
125	0.46	155.	274		3.92	1328.
127	46.42	15744.	275		23.63	8016.
128	3.39	1150.	276		2.87	972.
129	13.61	4616.	277		1.03	349.
130	0.70	237.	296		3.07	1042.
135	0.75	253.	323		1.36	462.
137	0.30	103.	334		0.73	248.
141	1.10	373.	365		1.60	544.
142	0.41	140.	372		0.47	158.
147	0.58	198.	423		3.74	1268.
148	1.06	358.	441		8.73	2960.
149	0.64	217.	442		66.98	22720.
155	0.48	162.	443		12.17	4128.
156	1.28	435.	444		0.71	241.

RIC
12/03/93 16:16:00
SAMPLE:
CONDS.: INST. 001
RANGE: G 1,1491 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

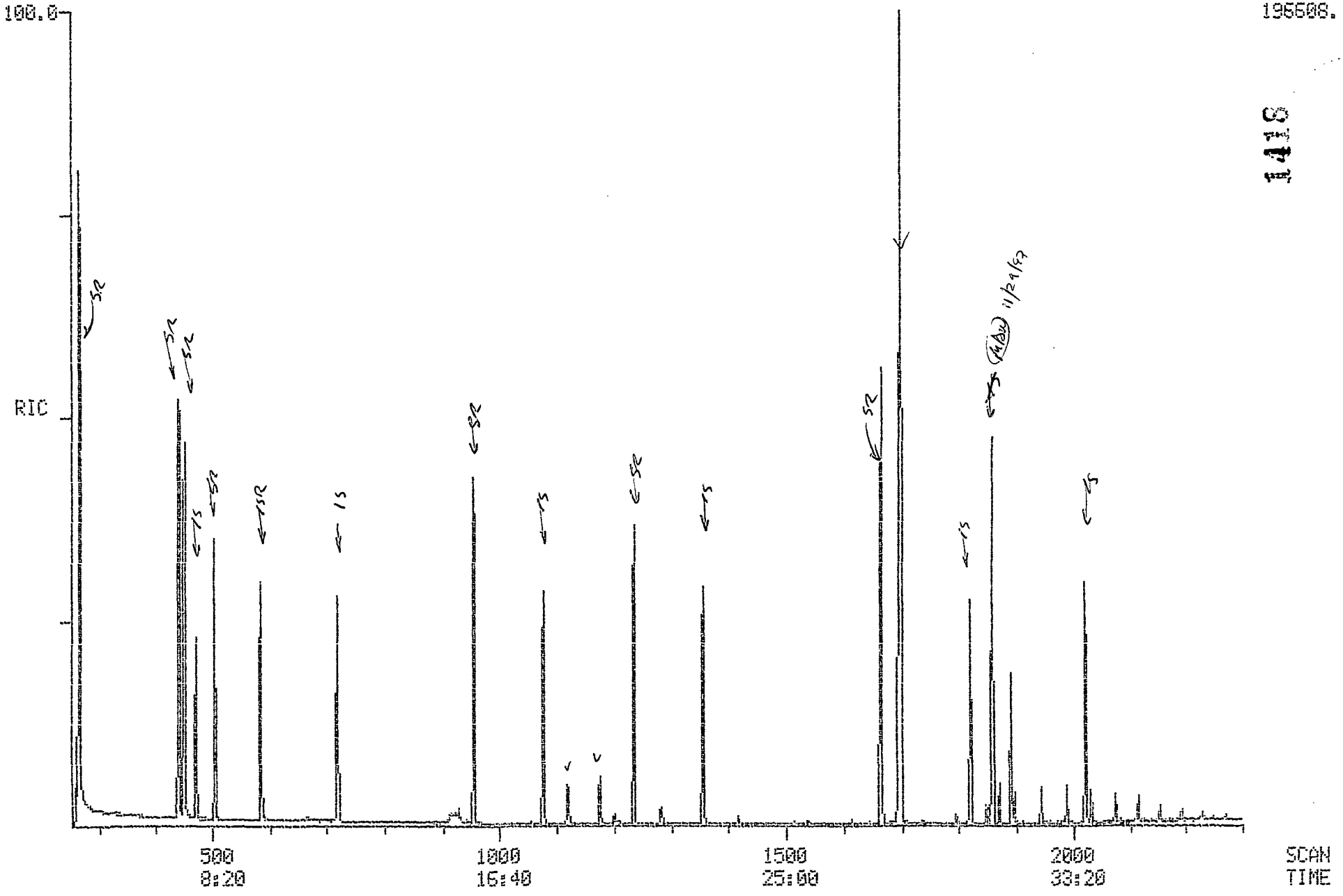
DATA: 50BA1203 #1328 SCANS 1320 TO 1350
CALI: 50BA1203 #3



RIC
11/24/93 17:28:00
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T0180@9T0310@10H9)
RANGE: G 1,2300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: LWB1108 #1
CALI: LWB1108 #3

SCANS 250 TO 2300



1418

Quantitation Report File: LWB1108

Data: LWB1108.TI
11/24/93 17:28:00
Sample: SBLK01
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.000
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT.STD.)***
2	CI40 D8-NAPHTHALENE***(INT.STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT.STD.)****
5	CI70 D12-CHRYSENE***(INT.STD.)***
6	CI75 D12-PERYLENE***(INT.STD.)***
7	CS50 2-FLUOROPHENOL***(SURR.STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR.STD)***
9	CS45 D6-PHENOL***(SURR.STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR.STD)***
11	CS20 D5-NITROBENZENE***(SURR.STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR.STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR.STD.)***
14	CS30 D14-TERPHENYL***(SURR.STD.)***
15	C580 DIETHYL PHTHALATE
16	C745 BIS(2-ETHYLHEXYL) PHTHALATE

1/1

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	472	7:52	1	1.000	A BB	20767.	40.000	NG/UL	3.45
2	136	720	12:00	2	1.000	A BB	69426.	40.000	NG/UL	3.45
3	164	1077	17:57	3	1.000	A BB	38489.	40.000	NG/UL	3.45
4	188	1357	22:37	4	1.000	A BB	60084.	40.000	NG/UL	3.45
5	240	1820	30:20	5	1.000	A BB	55253.	40.000	NG/UL	3.45
6	264	2023	33:43	6	1.000	A BB	54344.	40.000	NG/UL	3.45
7	112	266	4:26	1	0.564	A BB	133922.	206.169	NG/UL	17.79
8	132	441	7:21	1	0.934	A BB	83274.	114.728	NG/UL	9.90
9	99	452	7:32	1	0.958	A BB	112892.	124.162	NG/UL	10.71
10	152	506	8:26	1	1.072	A BB	31229.	65.395	NG/UL	5.64
11	82	587	9:47	2	0.815	A BB	65140.	86.414	NG/UL	7.45
12	172	956	15:56	3	0.888	A BB	89580.	76.583	NG/UL	6.61
13	330	1236	20:36	3	1.148	A BB	24837.	140.685	NG/UL	12.14
14	244	1666	27:46	5	0.915	A BB	121606.	95.856	NG/UL	8.27
15	149	1201	20:01	3	1.115	A BB	3360.	2.649	NG/UL	0.23
16	149	1871	31:11	5	1.028	A BB	7202.	6.571	NG/UL	0.57

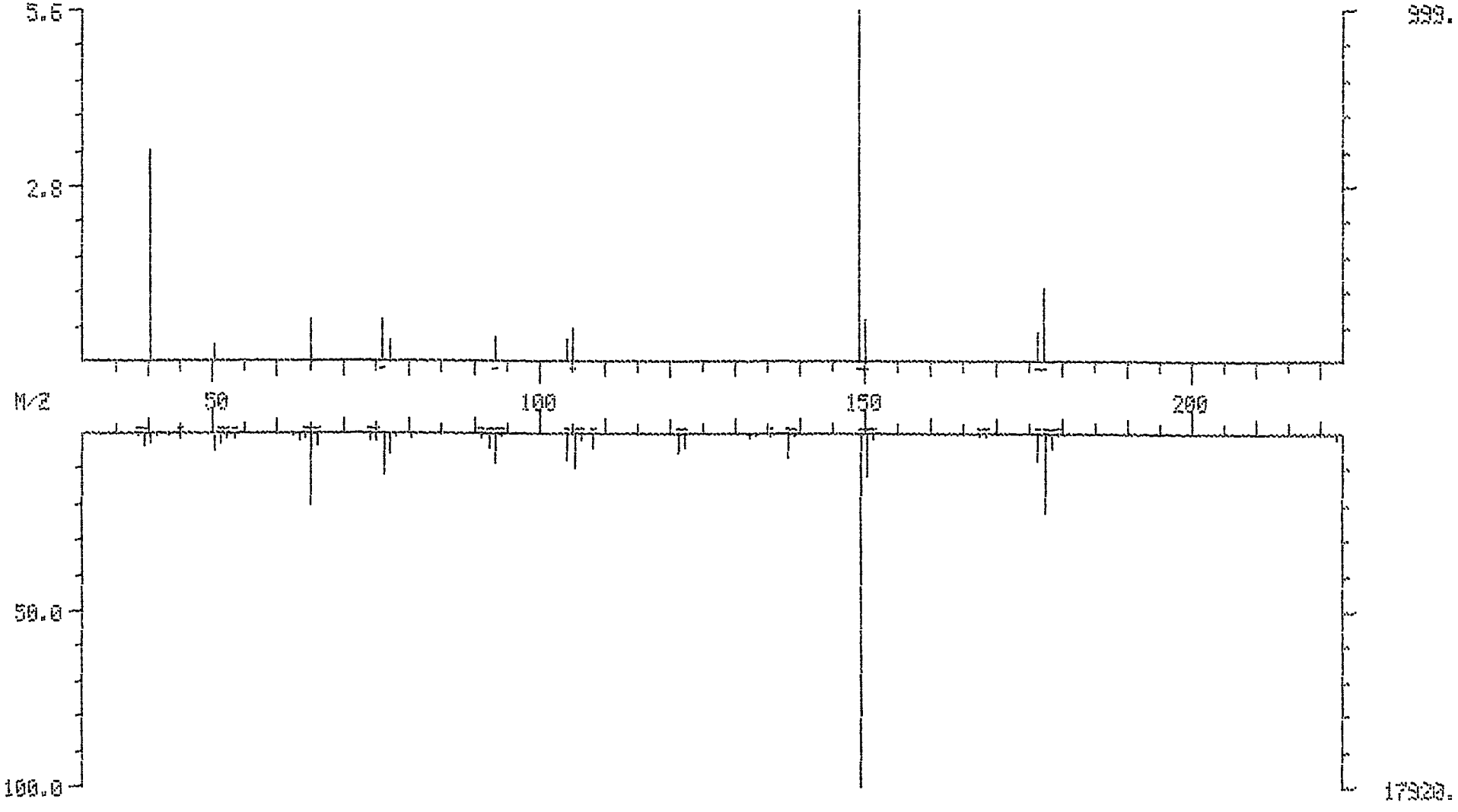
DUAL MASS SPECTRUM
11/24/93 17:28:00 + 20:01
SECOND SPECTRUM
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T0180@9T0310@10H9)

DATA: LWB1100 #1201
CALI: LWB1100 #3
DATA: 50BY1124Y #1211

BASE M/Z: 149/ 149
RIC: 2599./ 50239.

1420

DIETHYLPHTHALATE



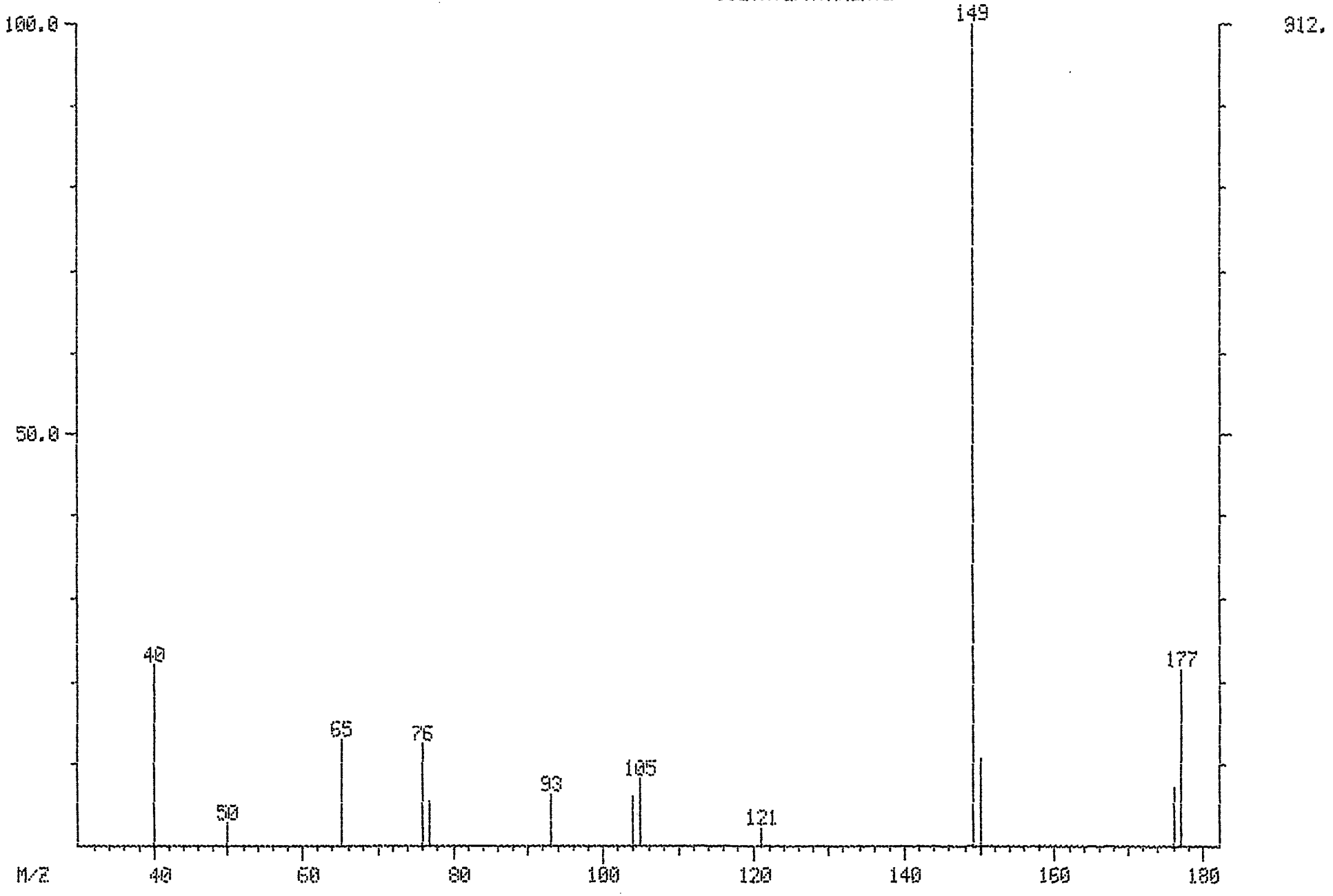
MASS SPECTRUM
11/24/93 17:28:00 + 20:01
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T0180@9T0310@10H9)
ENHANCED (S 15B 2N 0T)

DATA: LWB1108 #1201
CALI: LWB1108 #3

BASE M/Z: 149
RIC: 1976.

1421

DIETHYLPHTHALATE



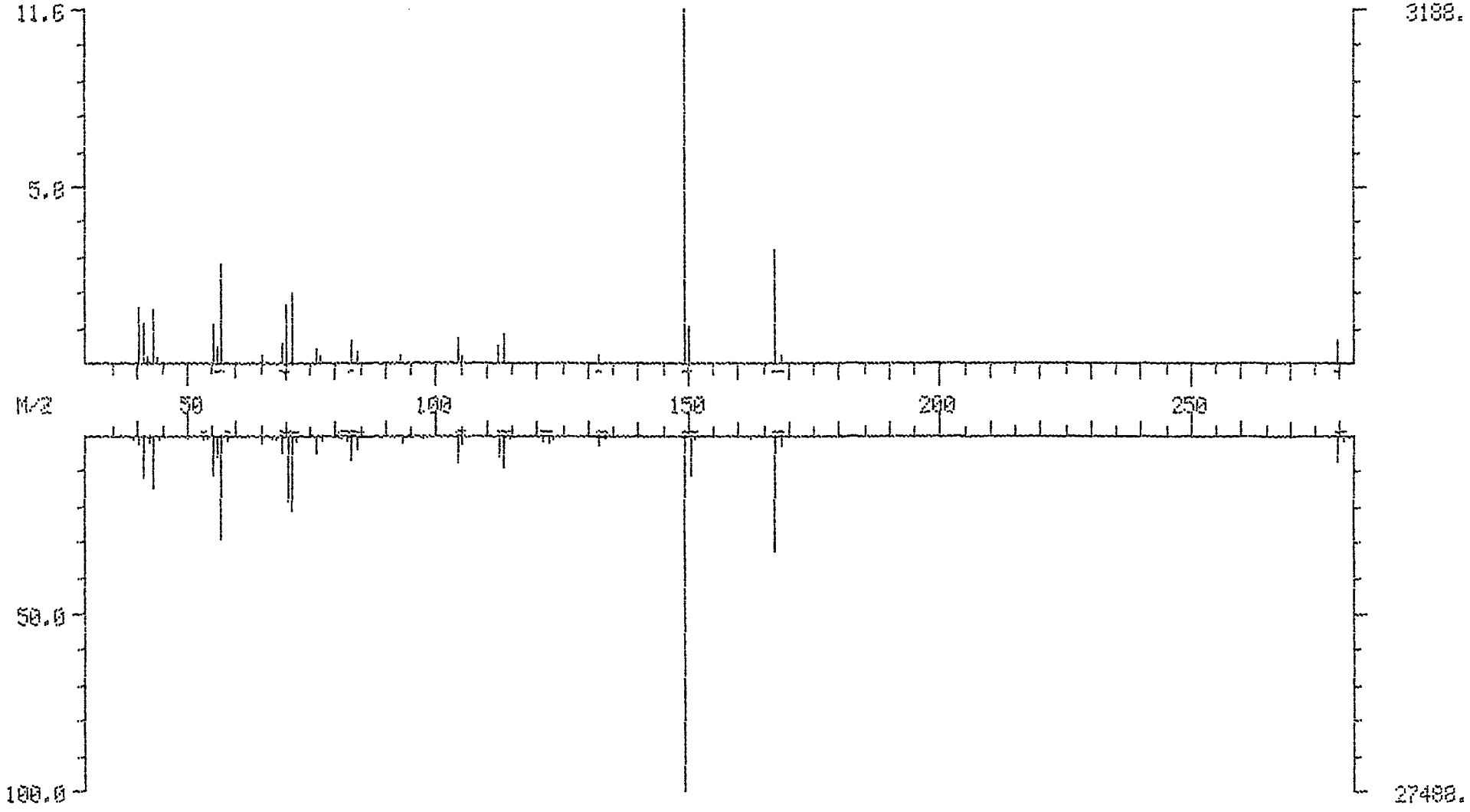
DUAL MASS SPECTRUM
11/24/93 17:28:00 + 31:11
SECOND SPECTRUM
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T0180@9T0310@10H9)

DATA: LWB1108 #1871
CALI: LWB1108 #3
DATA: 50BY1124Y #1875

BASE M/Z: 149/ 149
RIC: 10527./ 93311.

1423

BIS(2-ETHYLHEXYL) PHTHALATE

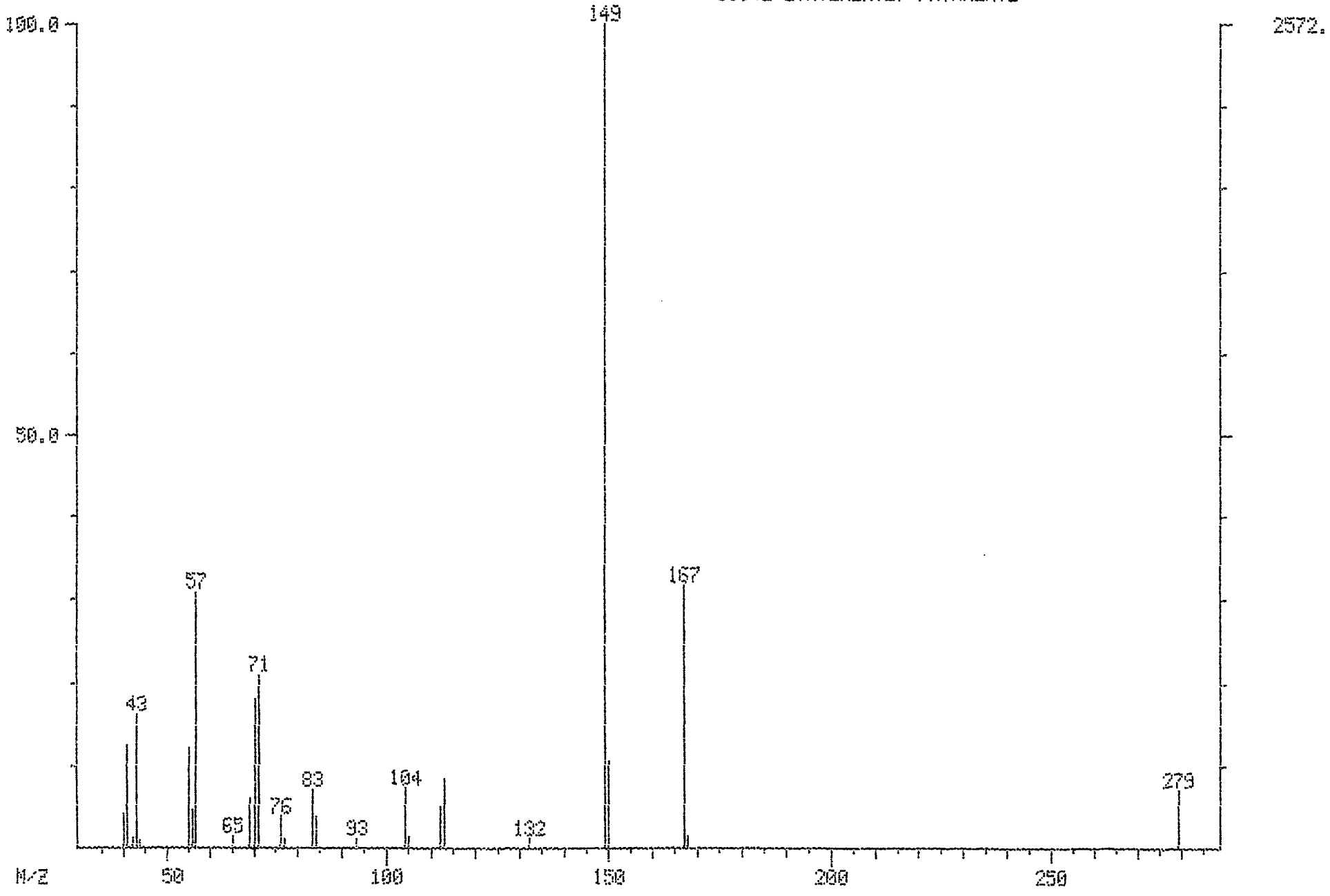


MASS SPECTRUM
11/24/93 17:28:00 + 31:11
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T018009T031001OH9)
ENHANCED (S 15B 2N 0T)

DATA: LWB1108 #1871
CALI: LWB1108 #3

BASE M/Z: 149
RIC: 8208.

BIS(2-ETHYLHEXYL) PHTHALATE



Library Search Data: LWB1108 #1118 Base m/z: 73
11/24/93 17:28:00 + 18:38 Cali: LWB1108 # 3 RIC: 8352.
Sample: SBLK01
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
368 matched at least 3 of the 16 largest peaks in the unknown

Rank	In.	Name
1	46966	TETRASILOXANE, 3,5-DIETHOXY-1,1,1,7,7,7-HEXAMETHYL-3,5-BIS(TRIMETHY*
2	31604	ANDROSTA-1,4,6-TRIENE-3,17-DIONE
3	24831	MERCAPTOACETIC ACID, BIS(TRIMETHYLSILYL)-
4	16177	BUTANOIC ACID, 3-METHYL-2-OXO-, TRIMETHYLSILYL ESTER
5	48088	3-BUTOXY-1,1,1,7,7,7-HEXAMETHYL-3,5,5-TRIS(TRIMETHYLSILOXY)TETRASIL*

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H46.O7.SI6	518	73	533	885	550
2	C19.H22.O2	282	282	85	871	97
3	C8.H20.O2.S.SI2	236	73	261	809	316
4	C8.H16.O3.SI	188	73	245	807	297
5	C19.H54.O7.SI7	590	73	699	796	855

Rank	Ret. Time	B.P. Int.	US.Par. 1	US.Par. 2	C.A.S. #
1	___	___	___	___	72439-78-2
2	___	___	___	___	633-35-2
3	___	___	___	___	6398-62-5
4	___	___	___	___	74367-70-7
5	___	___	___	___	72439-84-0

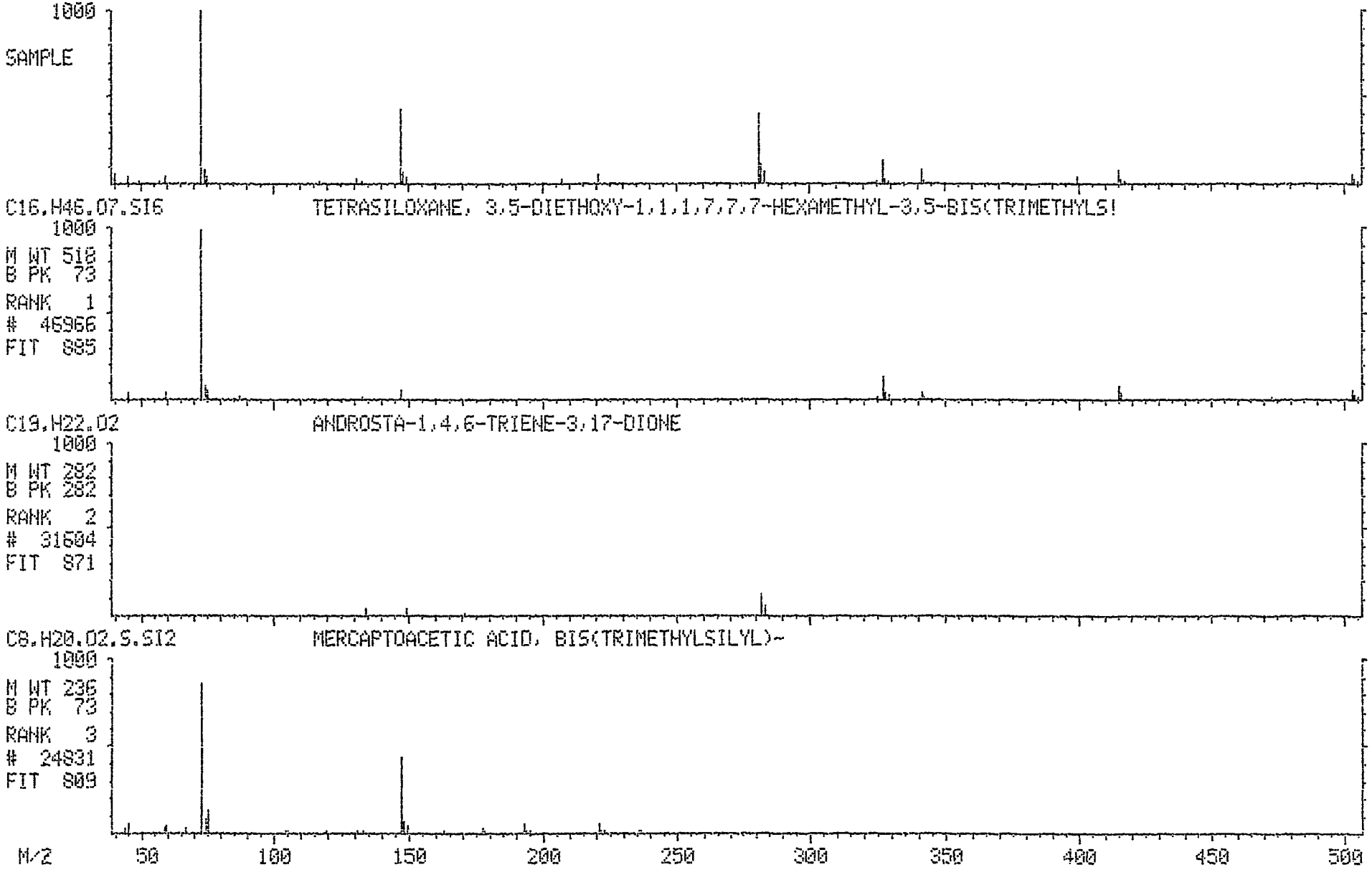
Mass	Inten	1	2	3	4	5
40	55					
41						177
43				23	26	
44					41	
45	35	42		54	57	45
49	4					
57	15					213
58				20		
59	38	42		42	28	34
66				31	39	
72					38	
73	999	982		863	907	996
74	85	83		82	50	91
75	38	51		134	131	
87		9				10
93					18	
104				20		
105				9		
117	16				16	
119				16		
131	25			7	13	
133	19	19		7	14	19
134			45			
147	422	53		434	450	426
148	66			70	59	61
149	37		37	40	28	
163				10		
170					4	
171			10			
175					11	
177				28		

186					13	
190					49	
191					7	
193				48		
194				9		
195				6		
207	21					10
219					29	
220					7	
221	59			59		68
222				12		14
223				8		
228					7	
236				12		
237				2		
281	395					384
282	106		118			116
283	69		55			
325	13	18				
327	132	135				107
328	32	40				32
329	20	27				
341	74	35				70
342	6	13				26
399	38					10
415	78	75				84
416	30	33				36
417	17					24
473		18				
503	59	57				59
504	31	25				
505	11	18				
517						91
518						50
519						50
575						49
576						26
577						17

LIBRARY SEARCH (LIBRARYNB)
11/24/93 17:28:00 + 18:38
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T0180@9T0310@10H9)
ENHANCED (S 15B 2N 0T)

DATA: LWB1108 #1118
CALI: LWB1108 # 3

BASE M/Z: 73
RIC: 8352.



Library Search Data: LWB1108 #1175 Base m/z: 219
11/24/93 17:28:00 + 19:35 Cali: LWB1108 # 3 RIC: 9632.
Sample: SBLK01
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
107 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	24701	PHENOL, 2,6-BIS(1,1-DIMETHYLETHYL)-4-ETHYL-
2	24670	1H-3A,6-METHANOAZULENE-3-CARBOXYLIC ACID, 2,3,4,5,6,7-HEXAHYDRO-7,7*
3	22066	ACETAMIDE, N-(6-PHENYLHEXYL)-
4	27195	3,5-DIPHENYL-4-METHYL-3-PENTEN-2-ONE
5	27188	1,5-DIPHENYL-4-METHYL-4-PENTEN-2-ONE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H26.O	234	219	919	978	932
2	C15.H22.O2	234	219	667	957	674
3	C14.H21.O.N	219	219	530	890	584
4	C18.H18.O	250	91	79	886	87
5	C18.H18.O	250	91	77	801	86

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	4130-42-1
2	___	___	___	___	16202-79-2
3	___	___	___	___	53429-17-7
4	___	___	___	___	81826-04-2
5	___	___	___	___	81826-05-3

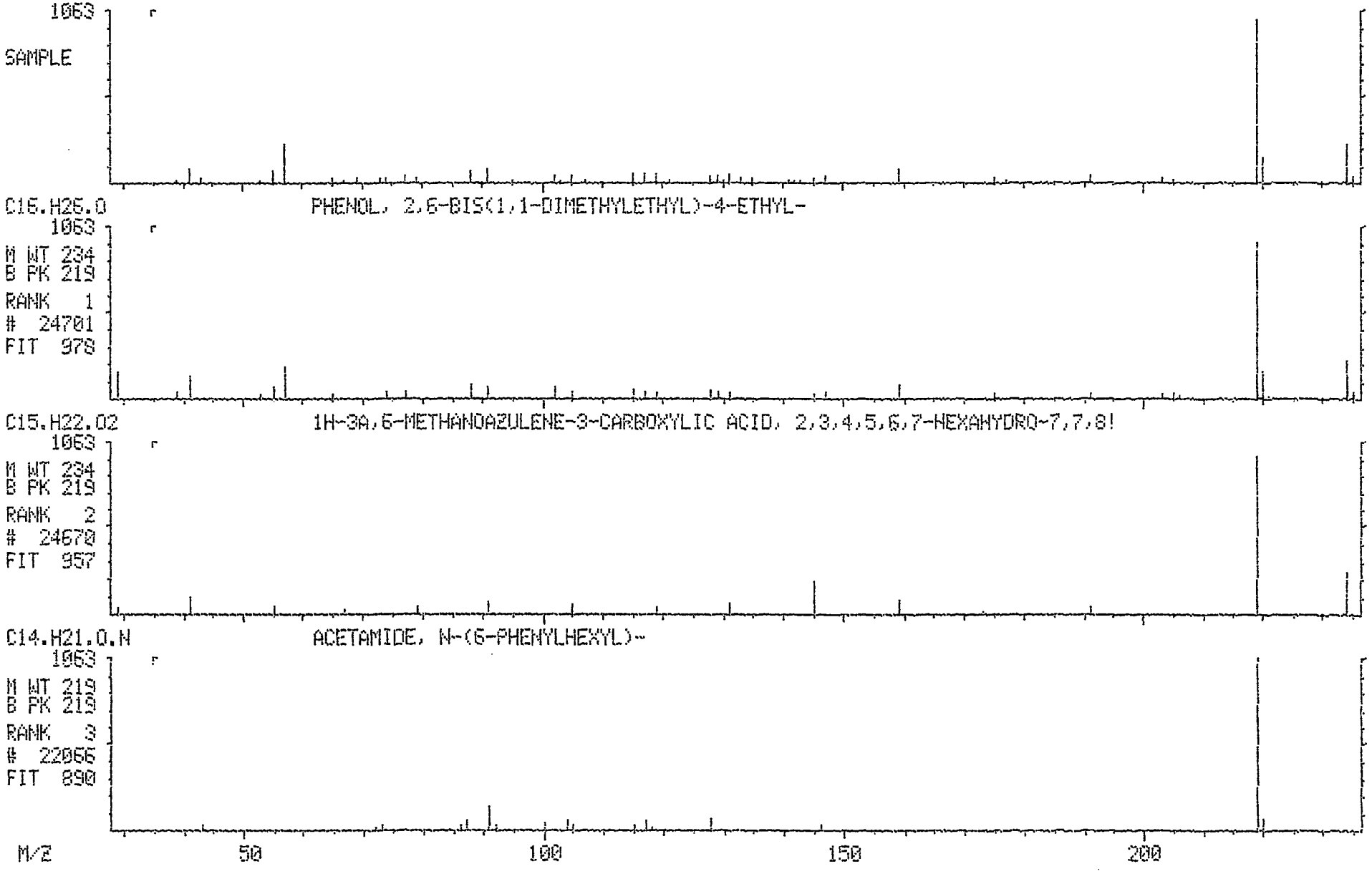
Mass	Inten	1	2	3	4	5
29		167	39			
39	11	45				
41	90	140	103			
43	29			29		
53	17	29				
55	68	69	42			
57	237	192				
65	31	23			31	51
67	11		24			
69	32					
72				20		
73	27			33		
74	31	44				
77	48	42				8
79	30		37			
86				35		
87				60		
88	68	85				
91	89	70	76	139	115	137
92				33		
95	8					
100				46		
102	43	66				
103	9					
104				60		
105	48	47	55	22		
107	9					
115	54	33		24	31	21
117	59	39		54		
118				21		
119	60	47	44			

128	46	50		76		
129	48	47			42	15
130	8					
131	51	45	64		68	86
133	34					
135	30					
141	6				23	
142	20					
143	8					
144					30	
145	29	31	200			
146				22		
147	36	38				
159	81	80	82		82	82
173			20			
175	29	30				
177	8					
191	44	24	44			
203	34	31				
205	10	32				
206		14				
219	999	966	972	1062		
220	152	163		75		
221		14				
234	233	234	258			
235	38	42				
250						22

LIBRARY SEARCH (LIBRARYNB)
11/24/93 17:28:00 + 19:35
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T018009T031001 0H9)
ENHANCED (S 15B 2N 0T)

DATA: LWB1108 #1175
CALI: LWB1108 # 3

BASE M/Z: 219
RIC: 9632.



Library Search Data: LWB1108 #1701 Base m/z: 159
11/24/93 17:28:00 + 28:21 Cali: LWB1108 # 3 RIC: 107264.
Sample: SBLK01
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
178 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	32040	BENZENE, 1,1'-SULFONYLBIS[4-CHLORO-
2	16509	BENZENE, 1-CHLORO-4-(METHYLSULFONYL)-
3	13291	BUTANOIC ACID, 3-METHYL-, TRIMETHYLSILYL ESTER
4	18860	BENZENE, 1-CHLORO-4-(ETHENYLSULFONYL)-
5	32039	2,4-DICHLORODIPHENYLSULPHONE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H8.O2.S.CL2	286	159	862	965	876
2	C7.H7.O2.S.CL	190	75	241	907	257
3	C8.H18.O2.SI	174	159	364	859	395
4	C8.H7.O2.S.CL	202	159	590	842	629
5	C12.H8.O2.S.CL2	286	159	720	828	756

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	80-07-9
2	___	___	___	___	98-57-7
3	___	___	___	___	55557-13-6
4	___	___	___	___	5535-51-3
5	___	___	___	___	38980-51-7

Mass	Inten	1	2	3	4	5
41				22		
43				19		
44						106
45	10			43		
47				22		
50	118	206	174		155	162
51	62	102	64		78	132
57				25		
61	15			29		
62	10		24			
63	41	43	52			
64	8					
69	13			20		
73	39			332		
74	85	97	131	38	81	
75	446	324	329	496	372	193
76	85	96	64	39	73	92
77	17			21		62
84	10					
85	49	55	47			53
86	7					
87	27					
93	22					
95	14					
96	12					
99	71	84	72		91	145
101	24				27	59
108	33					43
111	385	338	311		348	151
112	51	57	25			
113	113	154	101		110	54

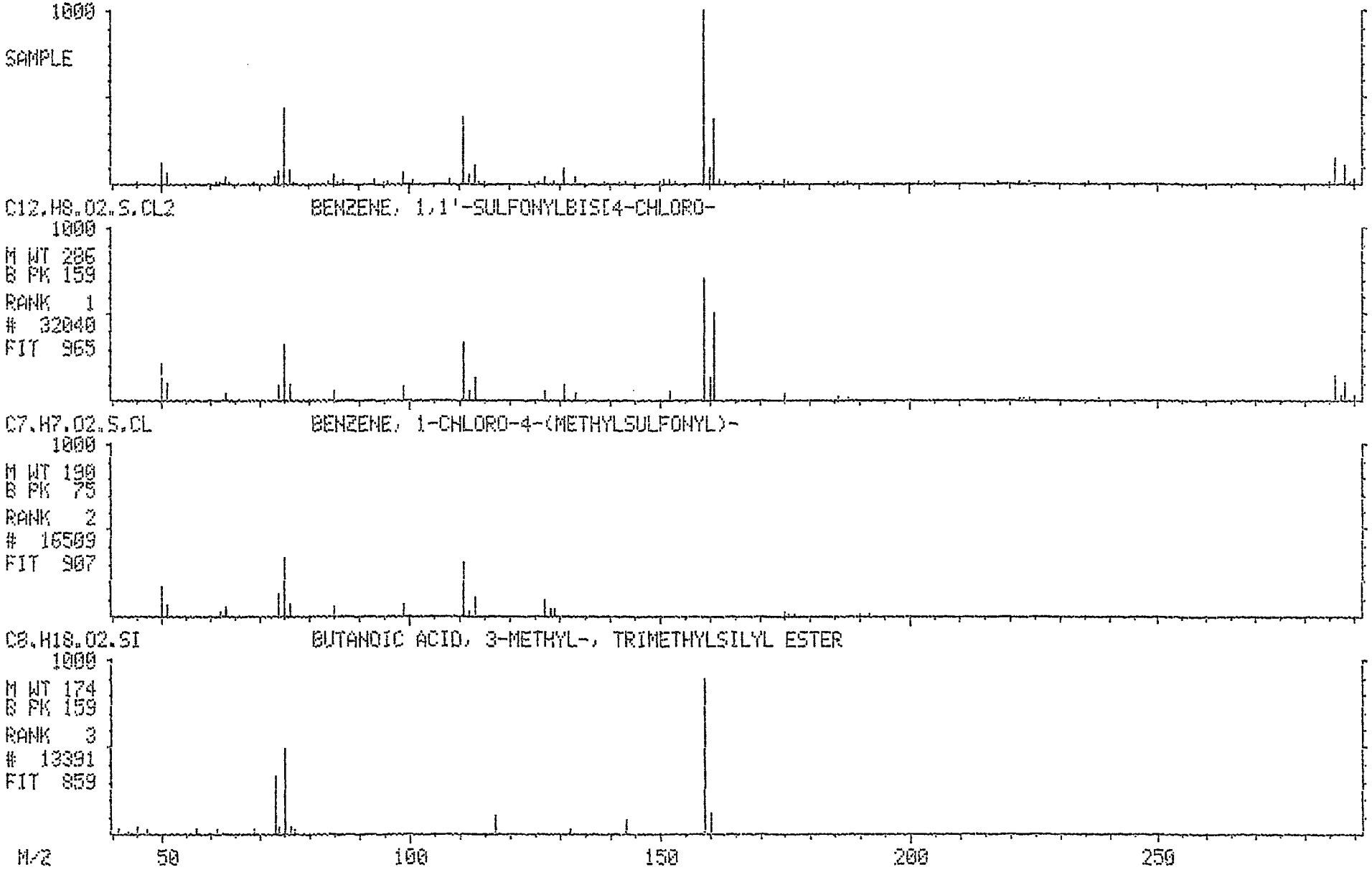
115	11					
117				109		
124	9					
125						43
126	6					
127	34	47	96		212	73
128			40			
129	13		33		70	
131	94	98			38	104
132				28		
133	41	37				71
138					34	
139	6					
142	5					
143	15			76		
145	8					
150	16					51
151	21					89
152	33	57				155
153	5					
159	999	708		891	893	481
160	92	133		119	141	
161	369	513			339	172
162	25					90
163	13					
168	6					
171	2					
173	2					
175	24	40	25		62	
176	1		2			
177	8		8		27	
184	4					44
186	17	23				67
187	4					6
188	6	6				
190			14			
192			5			
202	3				170	
204					113	
205	2					
218	1					
221						2
222	8	8				8
223		0				
224	5	4				4
236	1					
238		0				
285	3					
286	144	152				132
287		24				32
288	112	105				95
289	9					22
290	21	20				31

LIBRARY SEARCH (LIBRARYNB)
11/24/93 17:28:00 + 28:21
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T0180@9T0310@10H9)
ENHANCED (S 15B 2N 0T)

DATA: LWB1108 #1701
CALI: LWB1108 # 3

BASE M/Z: 159
RIC: 107264.

1432



Library Search Data: LWB1108 #1859 Base m/z: 277
11/24/93 17:28:00 + 30:59 Cali: LWB1108 # 3 RIC: 84736.
Sample: SBLK01
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Enhanced (8 15B 2W OT)

49429 spectra in LIBRARYNB searched for maximum FIT
57 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	37509	ACETIC ACID, (TRIPHENYLPHOSPHORANYLIDENE)-, METHYL ESTER
2	31103	PHOSPHINE OXIDE, TRIPHENYL-
3	15263	PYRIDINE, 4-(PHENYLAZO)-
4	15261	PYRIDINE, 3-(PHENYLAZO)-
5	34353	FORMALDEHYDE, (TRIPHENYLPHOSPHORANYLIDENE)HYDRAZONE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C21.H19.O2.P	334	277	921	985	921
2	C18.H15.O.P	278	277	909	972	927
3	C11.H9.N3	183	77	127	881	130
4	C11.H9.N3	183	77	124	846	132
5	C19.H17.N2.P	304	277	732	835	853

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	——	——	——	——	2605-67-6
2	——	——	——	——	791-28-6
3	——	——	——	——	2569-58-6
4	——	——	——	——	2569-55-3
5	——	——	——	——	15990-54-2

Mass	Inten	1	2	3	4	5
39	14		34			
40	8					
47	81		72			
50	34	58	41	183	103	
51	206	187	164	185	111	206
52	16			43	24	
57	11		39			184
58					59	
62				7		
63	16	17		14	12	
64				14	23	
65	10				15	
69	16	15	27			
74	14					
75	19					
76	20	31				
77	430	384	370	347	288	396
78	49	70	65	105	143	78
79				10	14	
81	9					
83	6					
88						110
89	6					
91	5					
95	50	53	36			
96	9					
102	11					
103						36
104						42
105	4			117	107	
106				8	12	

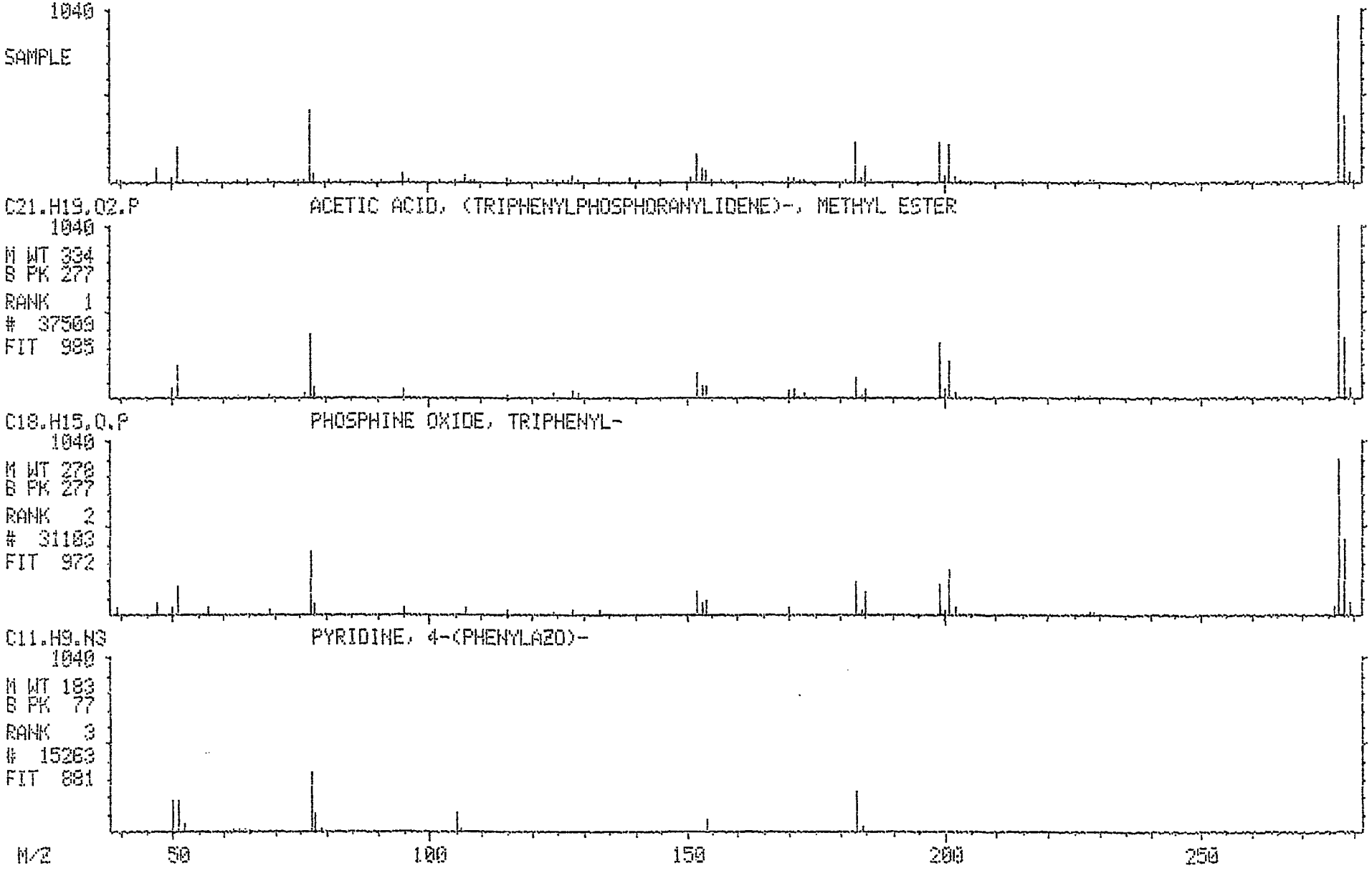
108	9					73
109	5					
115	29	15	32			
116	4					
123	18					
124	10	21	18			
126	13					
127	12					
128	39	36	34			
129	19	21				
131						121
133	27		26			
139	20					
141	10					
145	5					
151	29					
152	171	149	144			166
153	77	73	66			63
154	67	64	83	67	65	84
155	8				10	
157	16					
159	1					
170	30	42	44			
171	29	53				
172	2					
173	14	30				
181	4					
183	228	118	188	230	226	245
184	29	9	29	28	32	40
185	101	51	137			136
186	12					
199	241	335	175			163
200	35	51	29			
201	221	219	268			228
202	29	32	41			
203	1					
207						54
208						81
215	1					
226	1	3				
228	6	4	6			
229	1		6			
257	1	1				
262						146
263						40
276			51			
277	999	1040	927			817
278	404	368	460			536
279	60	55	73			89
280	4					
304						5

LIBRARY SEARCH (LIBRARYNB)
11/24/93 17:28:00 + 30:59
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T0180@9T0310@10H9)
ENHANCED (S 15B 2N 0T)

DATA: LWB1108 #1859
CALI: LWB1108 # 3

BASE M/Z: 277
RIC: 84736.

1435



Library Search Data: LWB1108 #1892 Base m/z: 201
11/24/93 17:28:00 + 31:32 Cali: LWB1108 # 3 RIC: 28992.
Sample: SBLK01
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
239 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	32909	PHOSPHINE OXIDE, DIPHENYL(PHENYLMETHYL)-
2	18786	.DELTA.2-1,2,4-TRIAZOLIN-5-ONE, 1-PHENYL-3-PROPENYL-
3	12518	CYCLOHEPTATRIENYLIUM, BROMIDE
4	18991	PHOSPHINE OXIDE, DIPHENYL-
5	15263	PYRIDINE, 4-(PHENYLAZO)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H17.O.P	292	201	836	958	844
2	C11.H11.O.N3	201	201	455	882	481
3	C7.H7.BR	170	91	46	870	48
4	C12.H11.O.P	202	201	531	838	548
5	C11.H9.N3	183	77	81	808	93

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	2959-74-2
2	___	___	___	___	5360-26-9
3	___	___	___	___	5376-03-4
4	___	___	___	___	4559-70-0
5	___	___	___	___	2569-58-6

Mass	Inten	1	2	3	4	5
39	20					
40	12					
41	5					
47	44	58			71	
50	12			10		94
51	101	115		12	72	94
52	7					27
62						4
63	20			23		8
64	3					8
65	82	71		79		
66	2					
69	10					
75	3					
76	7					
77	306	301			263	238
78	29	49			230	72
79						7
81	2					
89	15			17		
90				10		
91	114	98	641	112		
92	8		45			
95	43					
96	7				27	
105						56
106						4
107	22				12	
108	6				9	
109	2				14	
115	14					

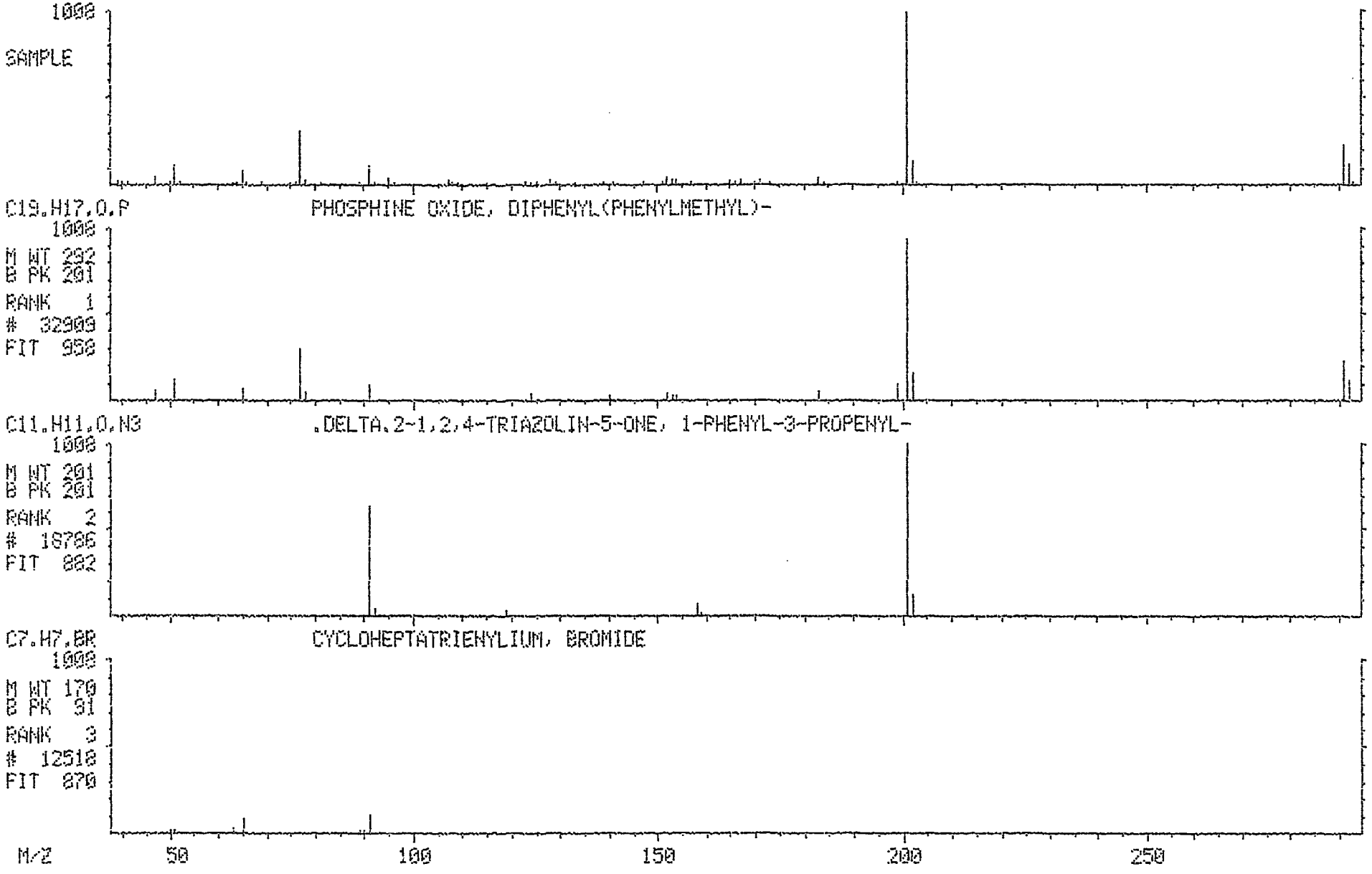
123	18				
124	2	43		102	
125	9			34	
128	29				
129	13				
133	17				
139	6				
140		30			
141	6				
147	2				
151	4				
152	43	46		35	
153	33	30		36	
154	32	31		36	32
155				64	
157	2				
158			70		
159			6		
165	32				
166	11				
167	23				
170	7				
171	24				
173	15				
183	40	57		114	38
184	2			25	4
199	8	93			
201	999	942	1008	638	
202	130	168	121	285	
203	8			44	
291	228	229			
292	115	114			
293	17				

LIBRARY SEARCH (LIBRARYNB)
11/24/93 17:28:00 + 31:32
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T0180@3T0310@10H3)
ENHANCED (S 15B 2N 0T)

DATA: LWB1108 #1892
CALI: LWB1108 # 3

BASE M/Z: 201
RIC: 28992.

1441



Library Search Data: LWB1108 #1897 Base m/z: 57
11/24/93 17:28:00 + 31:37 Cali: LWB1108 # 3 RIC: 6320.
Sample: SBLK01
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Enhanced (S 15B 2N 0T)

49429 spectra in LIBRARYNB searched for maximum FIT
262 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	9735	OCTANE, 2,4,6-TRIMETHYL-
2	15591	UNDECANE, 4,6-DIMETHYL-
3	15592	UNDECANE, 3,8-DIMETHYL-
4	15596	UNDECANE, 5,7-DIMETHYL-
5	12770	DECANE, 3,6-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H24	156	57	805	954	812
2	C13.H28	184	57	812	952	817
3	C13.H28	184	57	827	947	842
4	C13.H28	184	43	775	938	788
5	C12.H26	170	57	792	936	806

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	62016-37-9
2	—	—	—	—	17312-82-2
3	—	—	—	—	17301-30-3
4	—	—	—	—	17312-83-3
5	—	—	—	—	17312-53-7

Mass	Inten	1	2	3	4	5
29		191	205	207	202	187
39		51				
40	125					
41	180	231	206	231	264	246
42					65	
43	604	681	721	775	982	773
44	41					
55	246	102	114	135	144	119
56	135	165	118	146	171	190
57	999	1276	1151	881	831	1010
58	20	51				
67	18					
69	189	90	71	41	86	63
70	117	102	206	282	103	96
71	753	405	710	730	603	694
72	19					38
83	141					
84	75	110	101	43	218	208
85	513	561	285	412	563	473
86	19					
97	103					
98	39	53	85		40	
99	158	137	60	114	50	42
111	48			54		
112	20		44			60
113	79		100	116		97
126					15	
127	55	55		38	55	
140			5	7		7
141	33	7	33	45		33
142			2			3

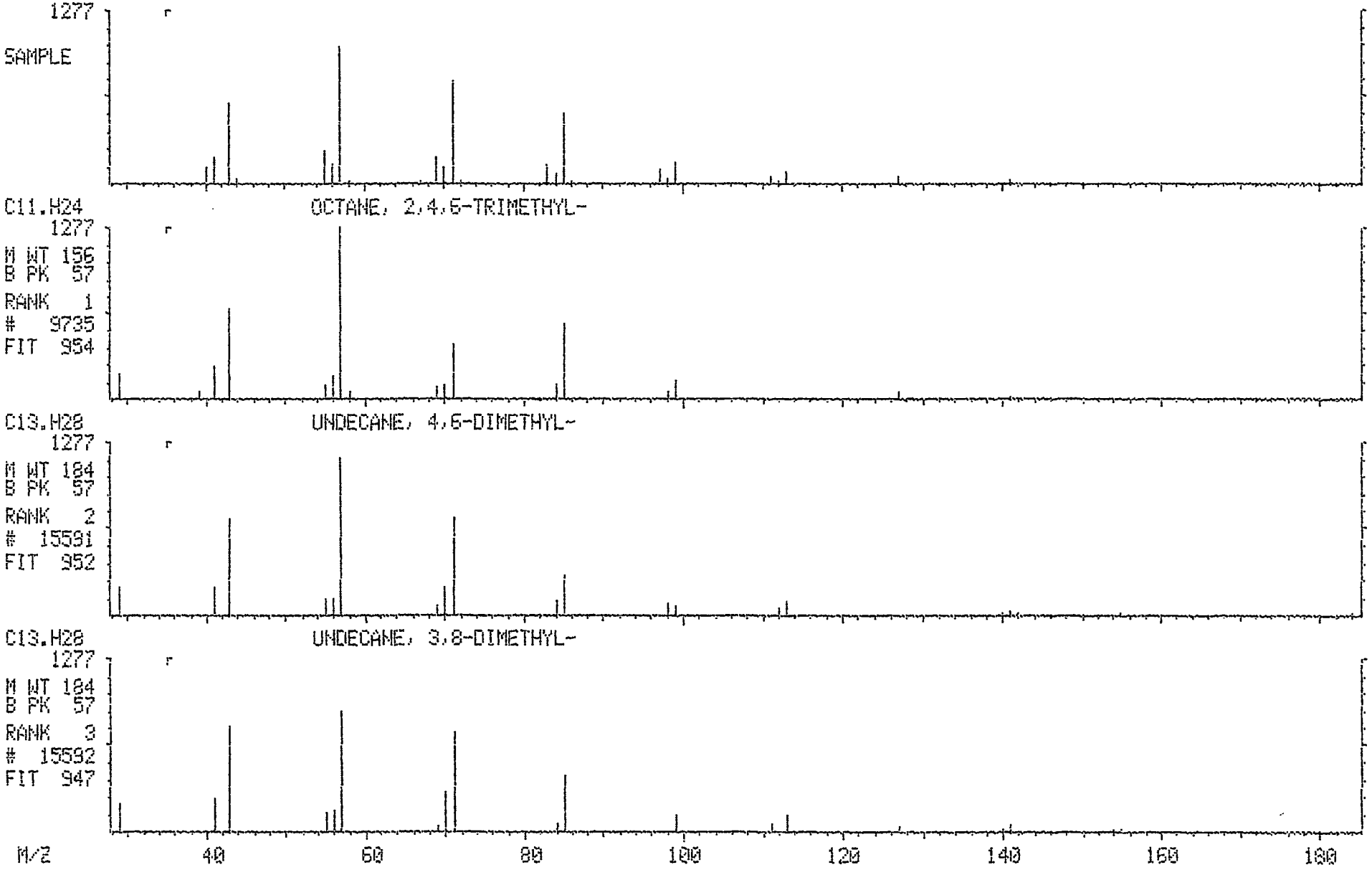
155	0	21	6
170			12
171			1
184	2		

LIBRARY SEARCH (LIBRARYNB)
11/24/93 17:28:00 + 31:37
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T0180@5T0310@10H9)
ENHANCED (S 15B 2N 0T)

DATA: LWB1108 #1897
CALI: LWB1108 # 3

BASE M/Z: 57
RIC: 6320.

1441



Library Search Data: LW81108 #1944 Base m/z: 57
11/24/93 17:28:00 + 32:24 Cali: LW81108 # 3 RIC: 6936.
Sample: SBLK01
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
236 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	15631	DECANE, 2,3,7-TRIMETHYL-
2	15592	UNDECANE, 3,8-DIMETHYL-
3	12773	DECANE, 3,8-DIMETHYL-
4	9735	OCTANE, 2,4,6-TRIMETHYL-
5	21010	DODECANE, 2,7,10-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H28	184	43	804	963	810
2	C13.H28	184	57	828	955	833
3	C12.H26	170	57	750	953	764
4	C11.H24	156	57	785	950	791
5	C15.H32	212	57	835	944	857

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	62238-13-5
2	___	___	___	___	17301-30-3
3	___	___	___	___	17312-55-9
4	___	___	___	___	62016-37-9
5	___	___	___	___	74645-98-0

Mass	Inten	1	2	3	4	5
29		115	205	223	188	216
39					51	
40	93					
41	189	240	229	264	229	275
43	563	910	767	488	675	573
44	47					
55	254	154	132	108	102	152
56	136	114	143	265	164	184
57	999	824	868	1119	1270	1032
58	23			47	51	
67	19					
69	213	76	40		90	75
70	113	167	279	94	103	112
71	736	774	726	566	405	903
72	22					
82	21					
83	145					
84	72	144	42		108	50
85	512	525	406	566	554	323
86				35		
97	110	94				
98	36	31			32	
99	160	90	114	104	133	98
111	32		53	52		23
112	19					52
113	94		114	120		107
126						27
127	50		38		50	47
140		15	6	7		
141	36	36	40	36	7	10
142				4		

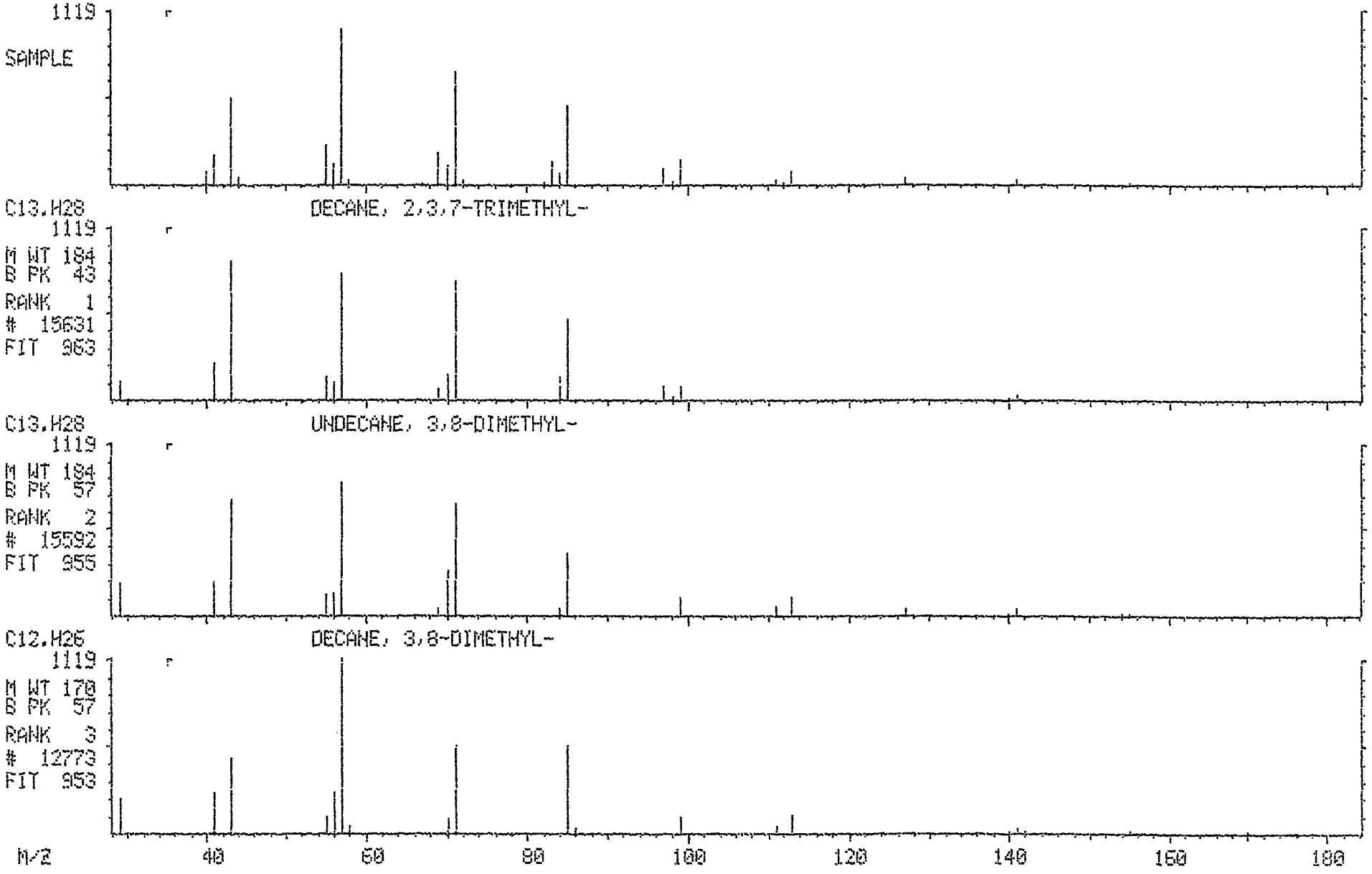
155	19	22	1	19
169				11
170			0	
182				3
183	19			19
184				2
197				4

LIBRARY SEARCH (LIBRARYNB)
11/24/93 17:28:00 + 32:24
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T01S0@9T0310@10H9)
ENHANCED (S 15B 2N 0T)

DATA: LWB1108 #1944
CALI: LWB1108 # 3

BASE M/Z: 57
RIC: 6936.

1444



Library Search Data: LWB1108 #1989 Base m/z: 57
11/24/93 17:28:00 + 33:09 Cali: LWB1108 # 3 RIC: 7152.
Sample: SBLK01
Conds.: INST. 025 (40F2TD180@9TD310@10H9)
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
262 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	15592	UNDECANE, 3,8-DIMETHYL-
2	9735	OCTANE, 2,4,6-TRIMETHYL-
3	18715	ETHER, HEPTYL HEXYL
4	15596	UNDECANE, 5,7-DIMETHYL-
5	15591	UNDECANE, 4,6-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H28	184	57	822	959	826
2	C11.H24	156	57	774	955	780
3	C13.H28.O	200	57	654	938	668
4	C13.H28	184	43	743	936	757
5	C13.H28	184	57	778	935	783

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	17301-30-3
2	___	___	___	___	62016-37-9
3	___	___	___	___	7289-40-9
4	___	___	___	___	17312-83-3
5	___	___	___	___	17312-82-2

Mass	Inten	1	2	3	4	5
29		212	196	141	206	208
39			52			
40	121					
41	186	234	234	218	266	208
42				113	66	
43	584	785	694	668	994	729
44	51					
55	276	136	104	188	145	115
56	152	147	167	285	173	119
57	999	891	1295	835	839	1162
58	32		52			
67	20					
68	24			43		
69	191	42	93	153	89	72
70	123	291	106	182	107	211
71	748	753	419		623	730
72	20					
82	25					
83	162			108		
84	80	44	112	95	224	96
85	553	428	576	463	577	272
86	18					
97	128			103		
98	25		56	82	42	81
99	172	126	143	41	52	58
111	53	61				
112	24					32
113	97	131				72
126					15	
127	58	41	58		58	
140		4				3

1

3 0

20 18 2

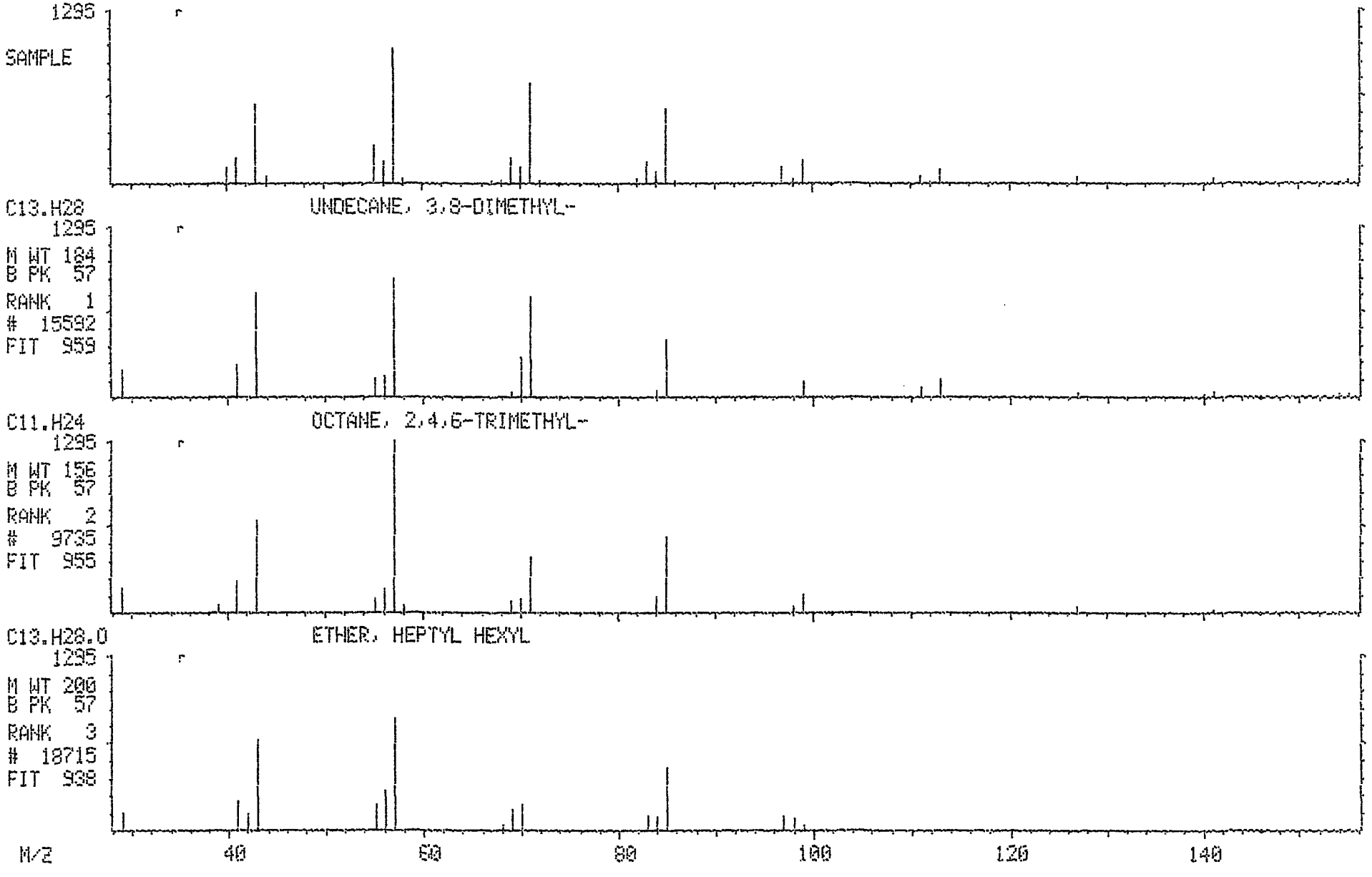
184

LIBRARY SEARCH (LIBRARYNB)
11/24/93 17:28:00 + 33:09
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T0180@9T0310@10H9)
ENHANCED (S 15B 2N 0T)

DATA: LWB1108 #1989
CALI: LWB1108 # 3

BASE M/Z: 57
RIC: 7152.

1447



Library Search Data: LWB1108 #2033 Base m/z: 57
11/24/93 17:28:00 + 33:53 Cali: LWB1108 # 3 RIC: 5880.
Sample: SBLK01
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
262 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	9735	OCTANE, 2,4,6-TRIMETHYL-
2	15592	UNDECANE, 3,8-DIMETHYL-
3	18715	ETHER, HEPTYL HEXYL
4	15596	UNDECANE, 5,7-DIMETHYL-
5	15615	DECANE, 2,4,6-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H24	156	57	755	960	761
2	C13.H28	184	57	798	957	803
3	C13.H28.O	200	57	651	950	660
4	C13.H28	184	43	728	947	735
5	C13.H28	184	43	744	942	758

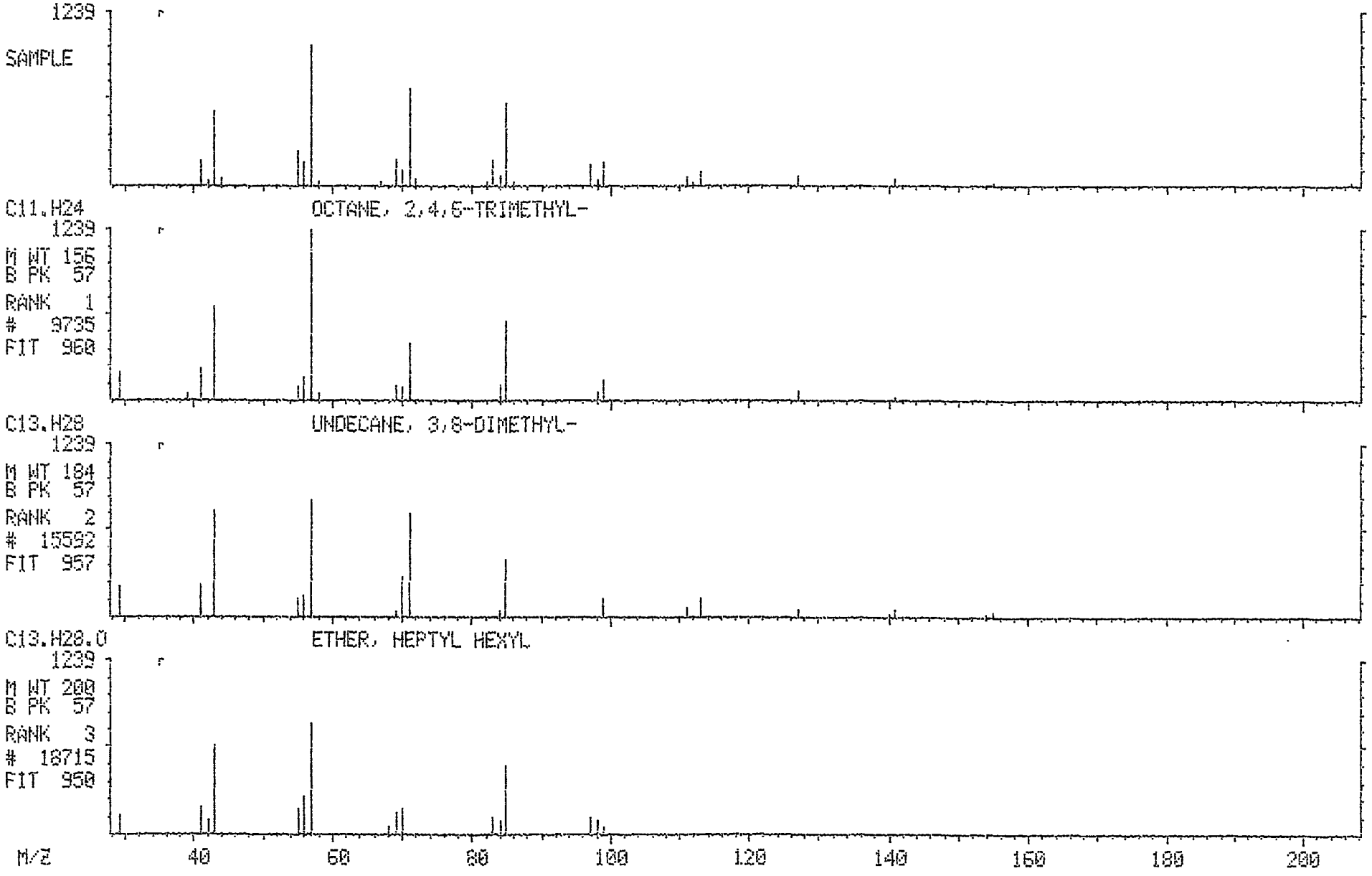
Rank	Ret. Time	B.P. Int.	US.Par. 1	US.Par. 2	C.A.S. #
1	___	___	___	___	62016-37-9
2	___	___	___	___	17301-30-3
3	___	___	___	___	7289-40-9
4	___	___	___	___	17312-83-3
5	___	___	___	___	62108-27-4

Mass	Inten	1	2	3	4	5
29		193	211	140	202	
39		51				57
41	189	228	226	203	254	248
42	41			106	63	76
43	530	671	759	631	948	942
44	51					
55	242	99	129	177	137	106
56	157	160	141	269	163	145
57	999	1238	850	788	790	809
58	26	50				
67	40					
68				42		
69	178	92	41	155	87	153
70	117	104	286	185	105	96
71	694	412	741		613	635
72	42					
82	27					
83	180			117		
84	75	112	43	103	223	173
85	591	575	419	501	575	577
86	38					47
97	147			114		
98	42	59		90	44	51
99	166	152	132	45	55	75
111	63		65			
112	21					
113	99		138			
126					18	14
127	68	68	49		68	68
128						9
140			8			

LIBRARY SEARCH (LIBRARYNB)
11/24/93 17:28:00 + 33:53
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T0180@9T0S10@10H9)
ENHANCED (S 15B 2N 0T)

DATA: LWB1108 #2033
CALI: LWB1108 # 3

BASE M/Z: 57
RIC: 5880.



Library Search Data: LWB1108 #2075 Base m/z: 57
11/24/93 17:28:00 + 34:35 Cali: LWB1108 # 3 RIC: 4952.
Sample: SBLK01
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Enhanced (S 150 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
212 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	12773	DECANE, 3,8-DIMETHYL-
2	9735	OCTANE, 2,4,6-TRIMETHYL-
3	15626	DECANE, 2,3,5-TRIMETHYL-
4	15592	UNDECANE, 3,8-DIMETHYL-
5	18722	HEXANE, 1-(HEXYLOXY)-5-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H26	170	57	741	968	749
2	C11.H24	156	57	761	950	767
3	C13.H28	184	57	796	947	805
4	C13.H28	184	57	781	940	802
5	C13.H28.O	200	57	650	936	663

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	17312-55-9
2	___	___	___	___	62016-37-9
3	___	___	___	___	62238-11-3
4	___	___	___	___	17301-30-3
5	___	___	___	___	74421-19-5

Mass	Inten	1	2	3	4	5
29		233	197	130	216	114
39			52			
40	165					
41	196	271	234	241	231	223
42						71
43	548	502	692	692	773	634
44	45					
55	255	112	104	134	136	212
56	160	274	169	82	148	371
57	999	1159	1308	1138	893	732
58	53	49	53			34
67	30					
69	212		92	72	41	177
70	152	97	105	159	285	213
71	737	585	416	736	741	
72	26					
82	26					
83	205					173
84	74		112	84	43	91
85	487	582	577	540	420	334
86	52	38				
97	152			39		148
98	47		54	61		125
99	183	112	138	108	120	57
111	60	65			67	
113	100	146		26	143	
115						9
127	73		73		51	
140		10		16	10	
141	51	51	10	51	64	
142		6		3		

33 0

1

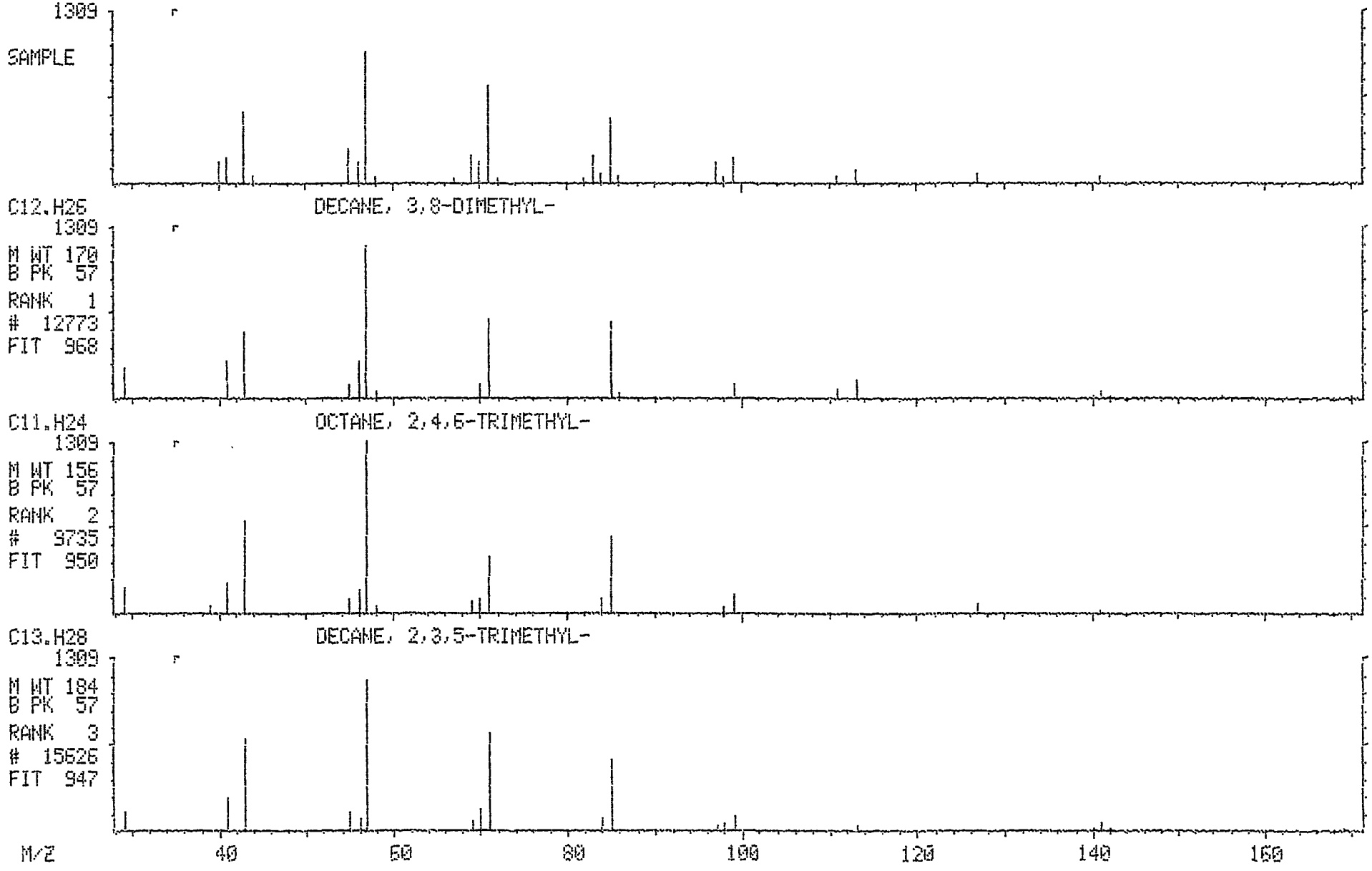
2

1

LIBRARY SEARCH (LIBRARYNB)
11/24/93 17:28:00 + 34:35
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T0180@9T0310@10H9)
ENHANCED (S 15B 2N 0T)

DATA: LWB1108 #2075
CALI: LWB1108 # 3

BASE M/Z: 57
RIC: 4952.



Library Search Data: LW01108 #2115 Base m/z: 57
11/24/93 17:28:00 + 35:15 Cali: LW01108 # 3 RIC: 4832.
Sample: SBLK01
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
199 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	9735	OCTANE, 2,4,6-TRIMETHYL-
2	15592	UNDECANE, 3,8-DIMETHYL-
3	18715	ETHER, HEPTYL HEXYL
4	15591	UNDECANE, 4,6-DIMETHYL-
5	18722	HEXANE, 1-(HEXYLOXY)-5-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H24	156	57	750	953	756
2	C13.H28	184	57	768	946	779
3	C13.H28.O	200	57	637	936	651
4	C13.H28	184	57	728	931	743
5	C13.H28.O	200	57	631	921	644

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	62016-37-9
2	___	___	___	___	17301-30-3
3	___	___	___	___	7289-40-9
4	___	___	___	___	17312-82-2
5	___	___	___	___	74421-19-5

Mass	Inten	1	2	3	4	5
29		190	205	138	202	108
39		51				
41	181	228	220	204	196	214
42				106		68
43	489	671	737	636	687	611
44	53					
55	231	102	132	180	112	199
56	151	165	143	274	116	349
57	999	1274	863	799	1129	688
58	83	51				32
68	46			41		
69	200	93	41	150	71	172
70	111	106	284	179	208	207
71	786	418	738		718	
82	27					
83	196			110		178
84	65	111	43	97	95	92
85	519	568	419	474	271	338
86	34					
96	31					
97	156			105		159
98	32	53		83	83	135
99	168	135	118	41	58	61
111	60		58			
112					32	
113	85		124		74	
115						13
127	52	52	39			
140			6		4	
141	26	7	38		26	
142					1	

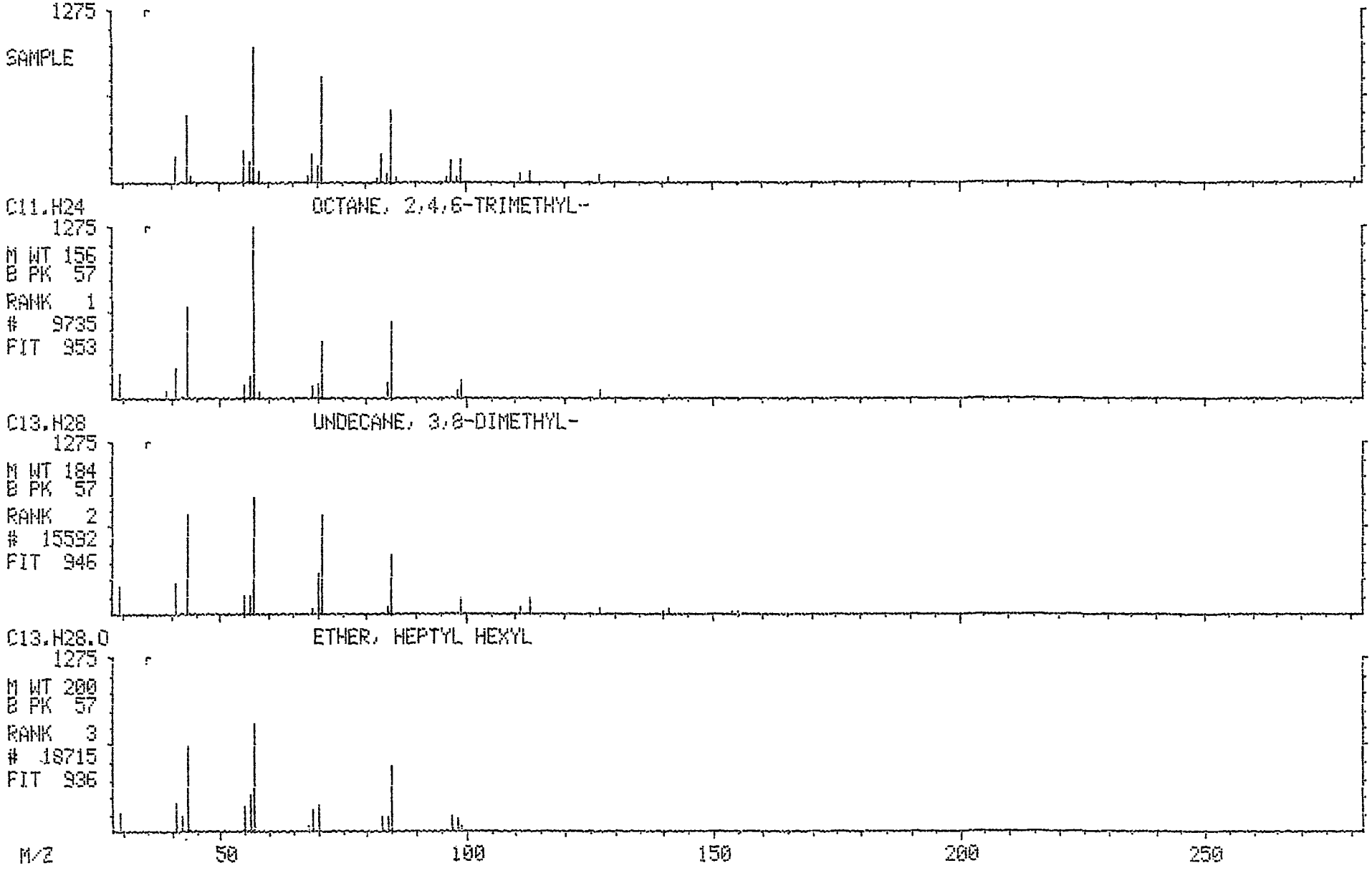
0

281 40 2 0

LIBRARY SEARCH (LIBRARYNB)
11/24/93 17:28:00 + 35:15
SAMPLE: SBLK01
CONDS.: INST. 025 (40F2T0180@9T0310@10HS)
ENHANCED (S 15B 2N 0T)

DATA: LWB1108 #2115
CALI: LWB1108 # 3

BASE M/Z: 57
RIC: 4832.



Quantitation Report File: TEMP1

Data: LWB1108.TI
11/24/93 17:28:00
Sample: ~~DETRP TUNE~~ SBLK01 MW 11/29/93
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.000
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=HEIGHT * REF AMNT/(REF HEIGHT * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	UNKNOWN
2	UNKNOWN
3	UNKNOWN
4	UNKNOWN
5	UNKNOWN
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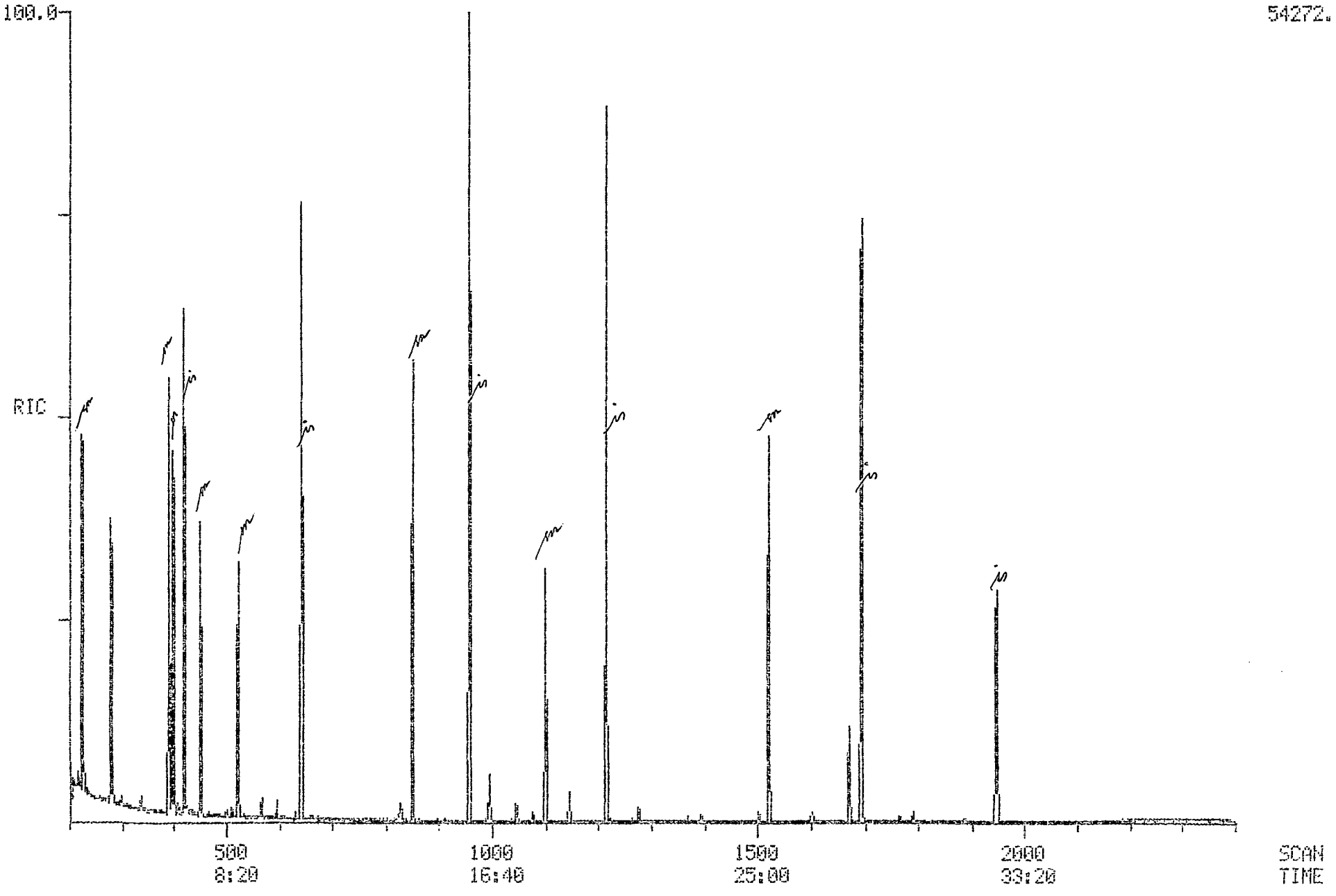
No	Name
48	UNKNOWN

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	253	4:18	24	0.152	A BV	8814.*	4.497	0.59
2	RIC	~~262~~	4:26	24	0.156	A VB	155628.*	79.403	10.37
3	RIC	~~441~~	7:21	24	0.259	A BV	100308.*	51.178	6.69
4	RIC	~~452~~	7:32	24	0.266	A VB	89939.*	45.888	6.00
5	RIC	~~472~~	7:52	24	0.277	A BB	43602.*	22.246	2.91
6	RIC	~~506~~	8:26	24	0.297	A BB	67464.*	34.421	4.50
7	RIC	~~587~~	9:47	24	0.345	A BB	57015.*	29.090	3.80
8	RIC	~~667~~	11:07	24	0.392	A BB	931.*	0.475	0.06
9	RIC	~~720~~	12:00	24	0.423	A VV	54496.*	27.804	3.63
10	RIC	916	15:16	24	0.539	A BV	1739.*	0.887	0.12
11	RIC	927	15:27	24	0.545	A VB	2875.*	1.467	0.19
12	RIC	~~956~~	15:56	24	0.562	A BB	82912.*	42.302	5.53
13	RIC	~~1077~~	17:57	24	0.633	A BB	55870.*	28.505	3.72
14	RIC	1112	18:38	24	0.657	A BB	8823.*	4.502	0.59
15	RIC	1175	19:35	24	0.691	A BB	10923.*	5.573	0.73
16	RIC	~~1201~~	20:01	24	0.706	A BB	1893.*	0.966	0.13
17	RIC	~~1236~~	20:36	24	0.727	A BB	71654.*	36.559	4.78
18	RIC	1282	21:22	24	0.754	A BB	3540.*	1.806	0.24
19	RIC	~~1357~~	22:37	24	0.798	A BB	57268.*	29.219	3.82
20	RIC	1418	23:38	24	0.834	A BB	1313.*	0.670	0.09
21	RIC	1538	25:38	24	0.904	A BB	677.*	0.346	0.05
22	RIC	1615	26:55	24	0.949	A BB	1047.*	0.534	0.07
23	RIC	~~1646~~	27:46	24	0.979	A BB	110320.*	56.286	7.35
24	RIC	1701	28:21	24	1.000	A BB	195997.*	100.000	13.07
25	RIC	~~1740~~	29:00	24	1.023	A BB	648.*	0.330	0.04
26	RIC	1795	29:55	24	1.055	A BB	2265.*	1.156	0.15
27	RIC	~~1821~~	30:21	24	1.071	A BB	53844.*	27.472	3.59
28	RIC	1847	30:47	24	1.086	A BB	4075.*	2.079	0.27
29	RIC	1859	30:59	24	1.093	A BB	93104.*	47.502	6.21
30	RIC	~~1871~~	31:11	24	1.100	A BB	9972.*	5.088	0.66
31	RIC	1892	31:32	24	1.112	A BV	36390.*	18.567	2.43
32	RIC	1897	31:37	24	1.115	A VB	7713.*	3.935	0.51
33	RIC	1944	32:24	24	1.143	A BB	8544.*	4.359	0.57
34	RIC	1951	32:31	24	1.147	A BB	591.*	0.301	0.04
35	RIC	1982	33:02	24	1.165	A BV	291.*	0.148	0.02
36	RIC	1989	33:09	24	1.169	A VB	8690.*	4.434	0.58
37	RIC	~~2022~~	33:43	24	1.189	A BV	57779.*	29.479	3.85
38	RIC	2033	33:53	24	1.195	A VB	7644.*	3.900	0.51
39	RIC	2059	34:19	24	1.210	A BB	513.*	0.262	0.03
40	RIC	2075	34:35	24	1.220	A BV	6722.*	3.430	0.45
41	RIC	2083	34:43	24	1.225	A BB	567.*	0.289	0.04
42	RIC	2099	34:59	24	1.234	A BB	304.*	0.155	0.02
43	RIC	2110	35:10	24	1.240	A BV	748.*	0.381	0.05
44	RIC	2115	35:15	24	1.243	A VB	5941.*	3.031	0.40
45	RIC	2154	35:54	24	1.266	A BB	3627.*	1.851	0.24
46	RIC	2193	36:33	24	1.289	A BB	2773.*	1.415	0.18
47	RIC	2230	37:10	24	1.311	A BB	1517.*	0.774	0.10
48	RIC	2271	37:51	24	1.335	A BB	753.*	0.384	0.05

1462

RIC
12/01/93 19:03:00
SAMPLE: S~~BLK01~~ SBLK02 T&M 12/6/93
CONDS.: INST. 001
RANGE: G 1,2400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: LSB1111A #1 SCANS 200 TO 2400
CALI: LSB1111A #3



Quantitation Report File: LSB1111A

Data: LSB1111A.TI
12/01/93 19:03:00
Sample: ~~SBLK01~~ SBLK02 TAM 12/6/93
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT.STD.)***
2	CI40 D8-NAPHTHALENE***(INT.STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT.STD.)***
5	CI70 D12-CHRYSENE***(INT.STD.)***
6	CI75 D12-PERYLENE***(INT.STD.)***
7	CS50 2-FLUOROPHENOL***(SURR.STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR.STD.)***
9	CS45 D5-PHENOL***(SURR.STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR.STD)***
11	CS20 D5-NITROBENZENE***(SURR.STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR.STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR.STD.)***
14	CS30 D14-TERPHENYL***(SURR.STD.)***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	420	7:00	1	1.000	A BB	15602.	40.000	NG/UL	7.16
2	136	642	10:42	2	1.000	A BB	58303.	40.000	NG/UL	7.16
3	164	957	15:57	3	1.000	A BB	31232.	40.000	NG/UL	7.16
4	188	1215	20:15	4	1.000	A BB	44890.	40.000	NG/UL	7.16
5	240	1694	28:14	5	1.000	A BB	42794.	40.000	NG/UL	7.16
6	264	1947	32:27	6	1.000	A BB	27137.	40.000	NG/UL	7.16
7	112	224	3:44	1	0.533	A BB	22587.	46.048	NG/UL	8.24
8	132	391	6:31	1	0.931	A BB	21269.	45.023	NG/UL	8.05
9	99	399	6:39	1	0.950	A BB	30698.	46.980	NG/UL	8.40
10	152	451	7:31	1	1.074	A BB	10553.	33.069	NG/UL	5.92
11	82	522	8:42	2	0.813	A BB	15690.	31.069	NG/UL	5.56
12	172	851	14:11	3	0.889	A BB	30893.	35.562	NG/UL	6.36
13	330	1099	18:19	3	1.148	A BB	6895.	49.113	NG/UL	8.79
14	244	1521	25:21	5	0.898	A BB	28978.	32.171	NG/UL	5.75

Library Search Data: LSB1111A # 280 Base m/z: 43
12/01/93 19:03:00 + 4:40 Cali: LSB1111A # 3 RIC: 16704.
Sample: ~~SBLK01~~ SBLK02 THM 12/6/93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
225 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	1294	ACETIC ACID, 2-PROPENYL ESTER
2	1093	2-PROPYN-1-OL, ACETATE
3	1177	2-PROPANONE, 1-CYCLOPROPYL-
4	36231	PROPANEDIOIC ACID, (BROMOMETHYL)METHYL-, BIS(1,1-DIMETHYLETHYL) EST*
5	9964	2-HEXANONE, 6-(ACETYLOXY)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C5.H8.O2	100	43	590	923	627
2	C5.H6.O2	98	43	529	917	554
3	C6.H10.O	98	43	574	869	610
4	C13.H23.O4.BR	322	41	146	869	164
5	C8.H14.O3	158	43	714	866	774

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	591-87-7
2	___	___	___	___	627-09-8
3	___	___	___	___	4160-75-2
4	___	___	___	___	67587-04-6
5	___	___	___	___	4305-26-4

Mass	Inten	1	2	3	4	5
26		12				
27		23		55		
28		11		15		
29		18		55		
37		9				
38		16				
39	33	93	180	56		
40		23				
41	122	110		48	136	59
42		28		15		30
43	999	883	1006	817		998
44	30	28	29	73	49	28
45	13					
53				24		
54				7		
55	37		49	147	20	69
56	58		39	24	58	99
57	45	84			32	19
58	131	119				47
59	120					28
61	18	26				48
69	18			3	15	
70			41			
71						22
72		10				
83	21			42		23
86	8				13	
87	150					
88	1					
97				12		6
99	51		51	22		55

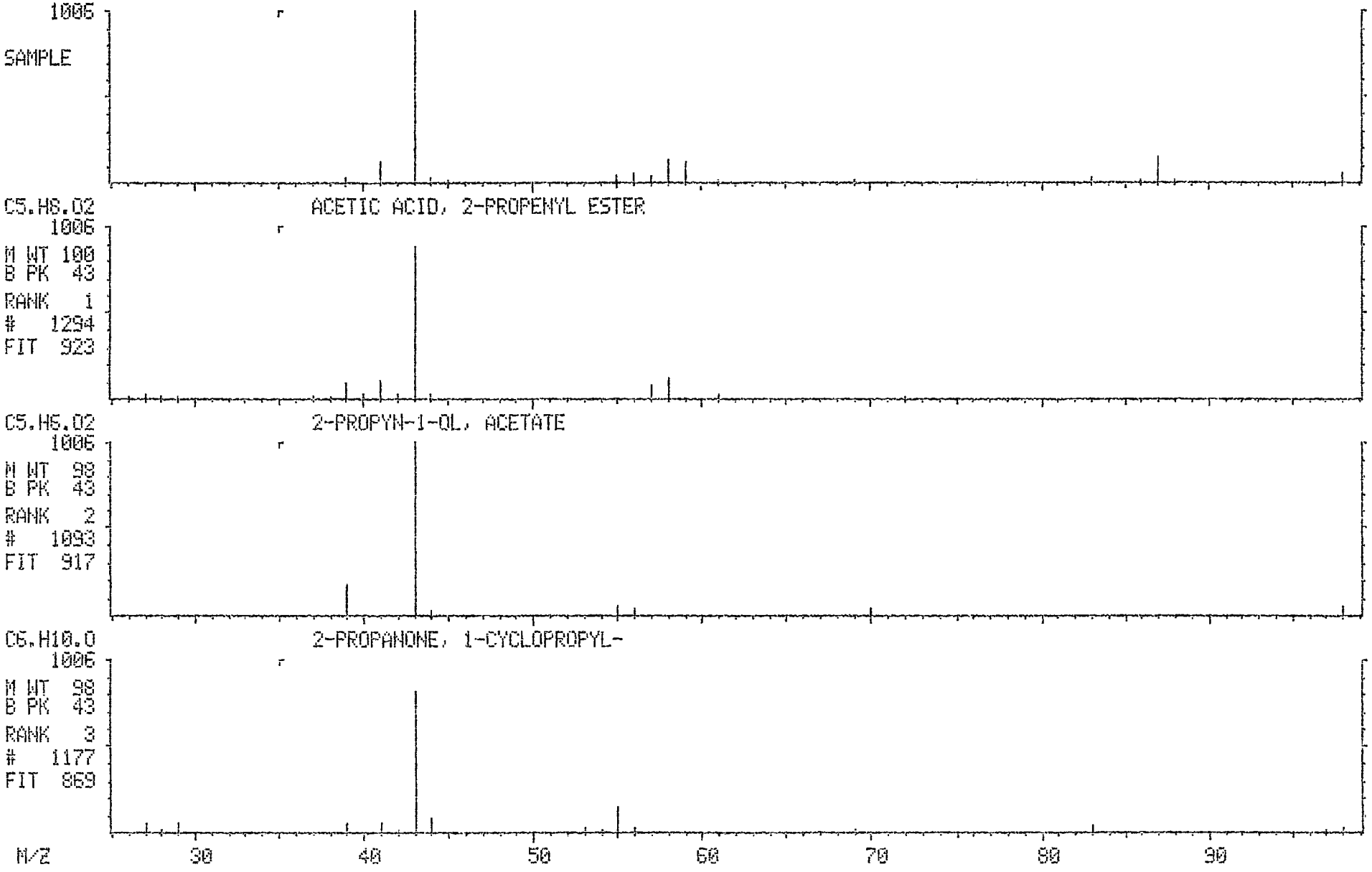
77		5
101		19
124	1	
127	1	
142	1	
143	1	
221	1	
223	1	
322	1	
324	1	

LIBRARY SEARCH (LIBRARYNB)
12/01/93 19:03:00 + 4:40
SAMPLE: ~~SBLK01~~ SBLK02 TAM 12/6/93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: LSB1111A # 280
CALI: LSB1111A # 3

BASE M/Z: 43
RIC: 16704.

1466



Library Search Data: LSB1111A #1671 Base m/z: 129
12/01/93 19:03:00 + 27:51 Cali: LSB1111A # 3 RIC: 5944.
Sample: ~~SBLK01~~ SBLK02 TAM 12/6/93
Conds.: INST. 001
Enhanced (S 15B 2N OT)

49429 spectra in LIBRARYNB searched for maximum FIT
133 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	9741	NONANE, 2,3-DIMETHYL-
2	12357	1-DECENE, 3,4-DIMETHYL-
3	6865	HEPTANE, 5-ETHYL-2-METHYL-
4	2950	1-PENTANOL, 3,4-DIMETHYL-
5	6850	OCTANE, 3-ETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H24	156	71	447	896	456
2	C12.H24	168	57	486	889	517
3	C10.H22	142	57	392	885	409
4	C7.H16.O	116	43	341	880	348
5	C10.H22	142	43	420	877	431

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	2884-06-2
2	___	___	___	___	50871-03-9
3	___	___	___	___	13475-78-0
4	___	___	___	___	6570-87-2
5	___	___	___	___	5881-17-4

Mass	Inten	1	2	3	4	5
27		81		147	154	90
28					30	
29		118	158	179	125	165
31					148	
39			44	61		42
41	204	182	188	195	199	170
42	35	60	42	52	88	48
43	291	470	371	487	365	516
44					19	
45					26	
55	300	76	190	88	315	82
56	103	53	142	60	246	40
57	463	510	532	510	130	514
69	57	26	75	35	47	21
70	335	130	146	125	317	136
71	312	571	406	491	77	495
72				25		26
83	146	54	102		107	19
84	86	38	70			
85		26		24		
87	32					
97			26			
100	13					
101	58					
111	144		45			
112	186	199	187	122		179
113	89	77	23	141		96
114		4				
126			9			
129	999					

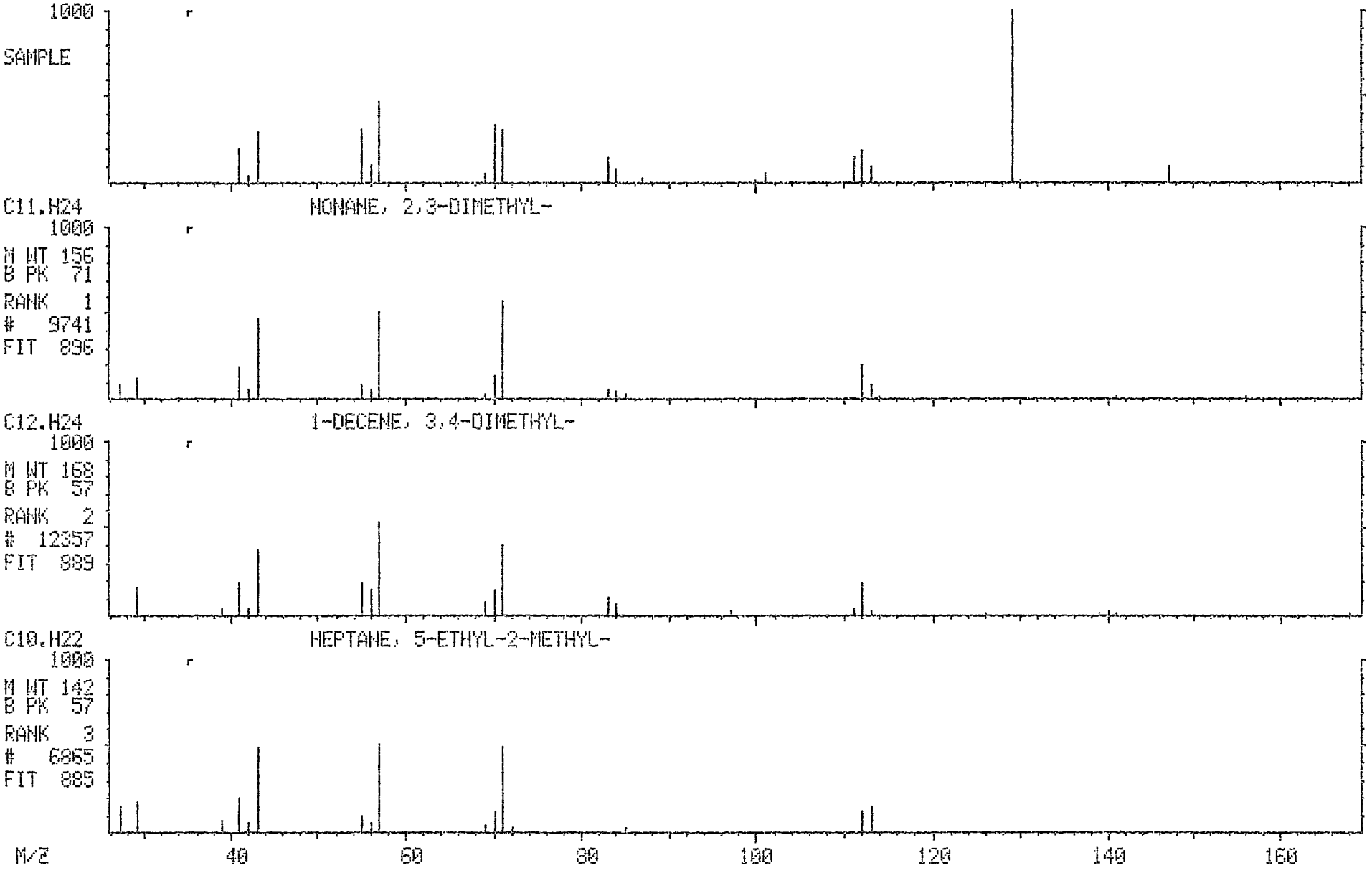
139			1	
140			29	
141		1	2	
142				2
147	98			
156		1		
168			0	

LIBRARY SEARCH (LIBRARYNB)
12/01/93 19:03:00 + 27:51
SAMPLE: ~~SBLK01~~ SBLK02 T Hm 12/6/93
CONDS.: INST. 001
ENHANCED (S 15B 2N 0T)

DATA: LSB1111A #1671
CALI: LSB1111A # 3

BASE M/Z: 129
RIC: 5944.

1469



Quantitation Report File: TEMP1

Data: LSB1111A.TI
12/01/93 19:03:00
Sample: ~~SBLK01~~ SBLK02 TMM 12/6/93
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=HEIGHT * REF AMNT/(REF HEIGHT * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	UNKNOWN
2	UNKNOWN
3	UNKNOWN
4	UNKNOWN
5	UNKNOWN
6	UNKNOWN
7	UNKNOWN
8	UNKNOWN
9	UNKNOWN
10	UNKNOWN
11	UNKNOWN
12	UNKNOWN
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26	UNKNOWN
27	UNKNOWN
28	UNKNOWN
29	UNKNOWN
30	UNKNOWN
31	UNKNOWN
32	UNKNOWN
33	UNKNOWN
34	UNKNOWN
35	UNKNOWN

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	204	3:24	18	0.213	A BV	2728. *	5.041	0.58
2	RIC	~~214~~	3:36	18	0.226	A VV	2508. *	4.635	0.54
3	RIC	~~224~~	3:44	18	0.234	A BB	~~23528.~~ *	44.035	5.10
4	RIC	280	4:40	18	0.293	A BB	18975. *	35.066	4.06
5	RIC	~~298~~	4:58	18	0.311	A BB	~~562.~~ *	1.038	0.12
6	RIC	337	5:37	18	0.352	A BB	~~789.~~ *	1.458	0.17
7	RIC	~~371~~	6:31	18	0.409	A BV	~~29179.~~ *	53.924	6.25
8	RIC	~~399~~	6:39	18	0.417	A VB	~~24174.~~ *	44.710	5.18

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
9	RIC	420	7:00	18	0.439	A BB	33824 *	62.507	7.24
10	RIC	451	7:31	18	0.471	A BB	17586. *	36.195	4.20
11	RIC	510	8:30	18	0.533	A BB	541. *	1.000	0.12
12	RIC	522	8:42	18	0.545	A BB	16716. *	31.265	3.62
13	RIC	567	9:27	18	0.592	A BB	1153. *	2.131	0.25
14	RIC	596	9:56	18	0.623	A BB	1097. *	2.027	0.23
15	RIC	642	10:42	18	0.671	A BB	41185 *	76.111	8.82
16	RIC	827	13:47	18	0.864	A BB	1121. *	2.072	0.24
17	RIC	851	14:11	18	0.889	A BB	30938. *	57.175	6.63
18	RIC	957	15:57	18	1.000	A BB	54112 *	100.000	11.59
19	RIC	994	16:34	18	1.039	A BB	3182. *	5.881	0.68
20	RIC	1045	17:25	18	1.092	A BB	1151. *	2.126	0.25
21	RIC	1076	17:56	18	1.124	A BB	566. *	1.045	0.12
22	RIC	1099	18:19	18	1.148	A BB	16793. *	31.034	3.60
23	RIC	1145	19:05	18	1.196	A BB	1898. *	3.507	0.41
24	RIC	1215	20:15	18	1.270	A BB	47954. *	88.621	10.27
25	RIC	1275	21:15	18	1.332	A BB	862. *	1.593	0.18
26	RIC	1368	22:48	18	1.429	A BB	271. *	0.501	0.06
27	RIC	1393	23:13	18	1.456	A BB	499. *	0.923	0.11
28	RIC	1502	25:02	18	1.569	A BB	676. *	1.250	0.14
29	RIC	1522	25:22	18	1.590	A BB	25902. *	47.867	5.55
30	RIC	1602	26:42	18	1.674	A BB	610. *	1.128	0.13
31	RIC	1671	27:51	18	1.746	A BB	6469. *	11.955	1.39
32	RIC	1695	28:15	18	1.771	A BB	40421. *	74.700	8.66
33	RIC	1764	29:24	18	1.843	A BB	328. *	0.607	0.07
34	RIC	1790	29:50	18	1.870	A BB	580. *	1.073	0.12
35	RIC	1947	32:27	18	2.034	A BB	15472. *	28.593	3.31

Scan 4T IS

1)

2)

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ02MS

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ02BMR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ02BMR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1300	
111-44-4	bis(2-Chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	1300	
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	760	
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-Di-n-Propylamine	730	
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)Methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	780	
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-Methylphenol	1300	
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	840	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ02MS

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ02BMR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ02BMR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1400	
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	860	
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-Methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	1700	
85-01-8	Phenanthrene	420	U
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-Butylphthalate	33	J
206-44-0	Fluoranthene	34	J
129-00-0	Pyrene	1300	
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(A) anthracene	420	U
218-01-9	Chrysene	35	J
117-81-7	bis(2-Ethylhexyl)Phthalate	290	J
117-84-0	Di-n-Octylphthalate	420	U
205-99-2	Benzo(b)Fluoranthene	50	J
207-08-9	Benzo(k)Fluoranthene	420	U
50-32-8	Benzo(a)Pyrene	420	U
193-39-5	Indeno(1,2,3-cd)Pyrene	420	U
53-70-3	Dibenz(a,h)Anthracene	420	U
191-24-2	Benzo(g,h,i)Perylene	420	U

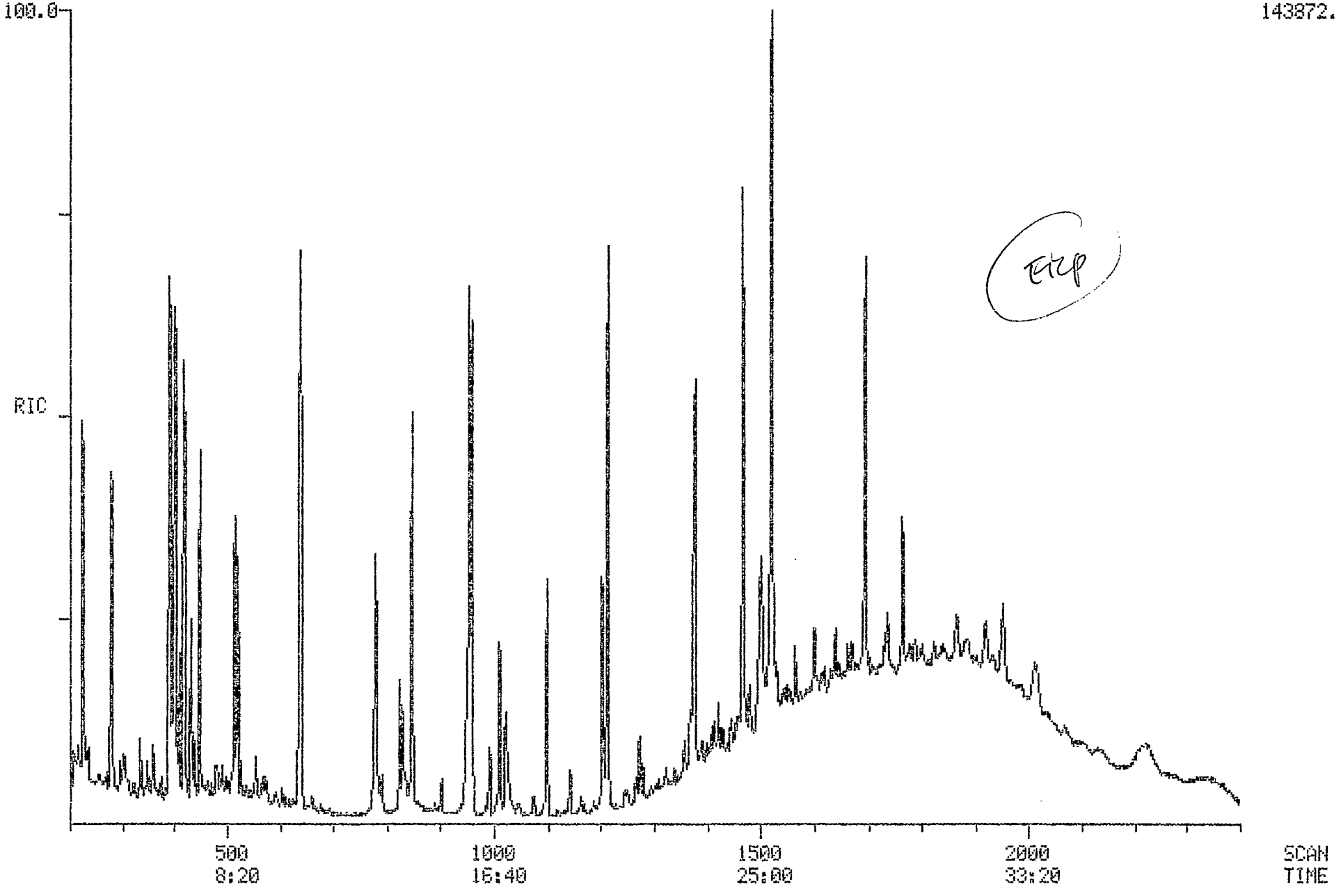
(1) - Cannot be separated from Diphenylamine

1474

RIC
12/02/93 20:33:00
SAMPLE: EX002MSRE CS 12-6-93
CONDS.: INST. 001
RANGE: G 1,2400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EX002BMR #1
CALI: EX002BMR #3

SCANS 200 TO 2400



Quantitation Report File: EXQ02BMR

Data: EXQ02BMR.TI
12/02/93 20:39:00
Sample: EXQ02MS~~RE~~ cg 12-6-93
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT.STD.)***
2	CI40 D8-NAPHTHALENE***(INT.STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT.STD.)***
5	CI70 D12-CHRYSENE***(INT.STD.)***
6	CI75 D12-PERYLENE***(INT.STD.)***
7	CS50 2-FLUOROPHENOL***(SURR.STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR.STD.)***
9	CS45 D5-PHENOL***(SURR.STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR.STD)***
11	CS20 D5-NITROBENZENE***(SURR.STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR.STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR.STD.)***
14	CS30 D14-TERPHENYL***(SURR.STD.)***
15	C315 PHENOL
16	C330 2-CHLOROPHENOL
17	C340 1,4-DICHLOROBENZENE
18	C370 N-NITROSO-DI-N-PROPYLAMINE
19	C445 1,2,4-TRICHLOROBENZENE
20	C465 4-CHLORO-3-METHYLPHENOL
21	C550 ACENAPHTHENE
22	C560 4-NITROPHENOL
23	C570 2,4-DINITROTOLUENE
24	C635 PENTACHLOROPHENOL
25	C650 DI-N-BUTYL PHTHALATE
26	C655 FLUORANTHENE
27	C715 PYRENE
28	C745 BIS(2-ETHYLHEXYL) PHTHALATE
29	C740 CHRYSENE
30	C765 BENZO(B) FLUORANTHENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	418	6:58	1	1.000	A BB	34058.	40.000 NG/UL	3.27
2	136	640	10:40	2	1.000	A BB	117916.	40.000 NG/UL	3.27
3	164	954	15:54	3	1.000	A BB	68501.	40.000 NG/UL	3.27
4	188	1213	20:13	4	1.000	A BV	100689.	40.000 NG/UL	3.27
5	240	1695	28:15	5	1.000	A BB	69589.	40.000 NG/UL	3.27
6	264	1951	32:31	6	1.000	A BB	25834.	40.000 NG/UL	3.27
7	112	224	3:44	1	0.536	A BB	58560.	52.884 NG/UL	4.32
8	132	390	6:30	1	0.933	A BB	51492.	52.463 NG/UL	4.29
9	99	401	6:41	1	0.959	A BB	74590.	53.004 NG/UL	4.33
10	152	448	7:28	1	1.072	A BB	27783.	38.854 NG/UL	3.17
11	82	521	8:41	2	0.814	A BB	44566.	38.088 NG/UL	3.11
12	172	848	14:08	3	0.889	A BB	79163.	39.847 NG/UL	3.26
13	330	1098	18:18	3	1.151	A BB	19614.	59.325 NG/UL	4.85

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
14	244	1521	25:21	5	0.897	A BB	76603.	53.340	NG/UL	4.36
15	94	403	6:43	1	0.964	A BB	80333.	59.384	NG/UL	4.85
16	128	393	6:33	1	0.940	A BB	60628.	61.734	NG/UL	5.04
17	146	420	7:00	1	1.005	A BB	41660.	35.935	NG/UL	2.94
18	70	515	8:35	1	1.232	A BV	33724.	34.356	NG/UL	2.81
19	180	637	10:37	2	0.995	A BB	33051.	37.039	NG/UL	3.03
20	107	779	12:59	2	1.217	A BB	52207.	59.754	NG/UL	4.88
21	153	959	15:59	3	1.005	A BB	73234.	39.893	NG/UL	3.26
22	109	1022	17:02	3	1.071	A BB	9566.	64.051	NG/UL	5.23
23	165	1010	16:50	3	1.059	A BB	24151.	40.460	NG/UL	3.31
24	266	1202	20:02	4	0.991	A BB	19604.	82.160	NG/UL	6.71
25	149	1367	22:47	4	1.127	A BB	6697.	1.583	NG/UL	0.13
26	202	1429	23:49	4	1.178	A BB	4445.	1.612	NG/UL	0.13
27	202	1467	24:27	5	0.865	A BB	113721.	60.714	NG/UL	4.96
28	149	1764	29:24	5	1.041	A BB	27222.	13.634	NG/UL	1.11
29	228	1698	28:18	5	1.002	A VB	2150.	1.650	NG/UL	0.13
30	252	1886	31:26	6	0.967	A BB	2948.	2.368	NG/UL	0.19

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ12MS

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: EXQ12BM

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EXQ12BM

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: decanted: (Y/N) Date Extracted: 11/08/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/24/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	62	
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	69	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	41	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	42	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	43	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	74	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	47	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ12MS

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: EXQ12BM

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EXQ12BM

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: decanted: (Y/N) Date Extracted: 11/08/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/24/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

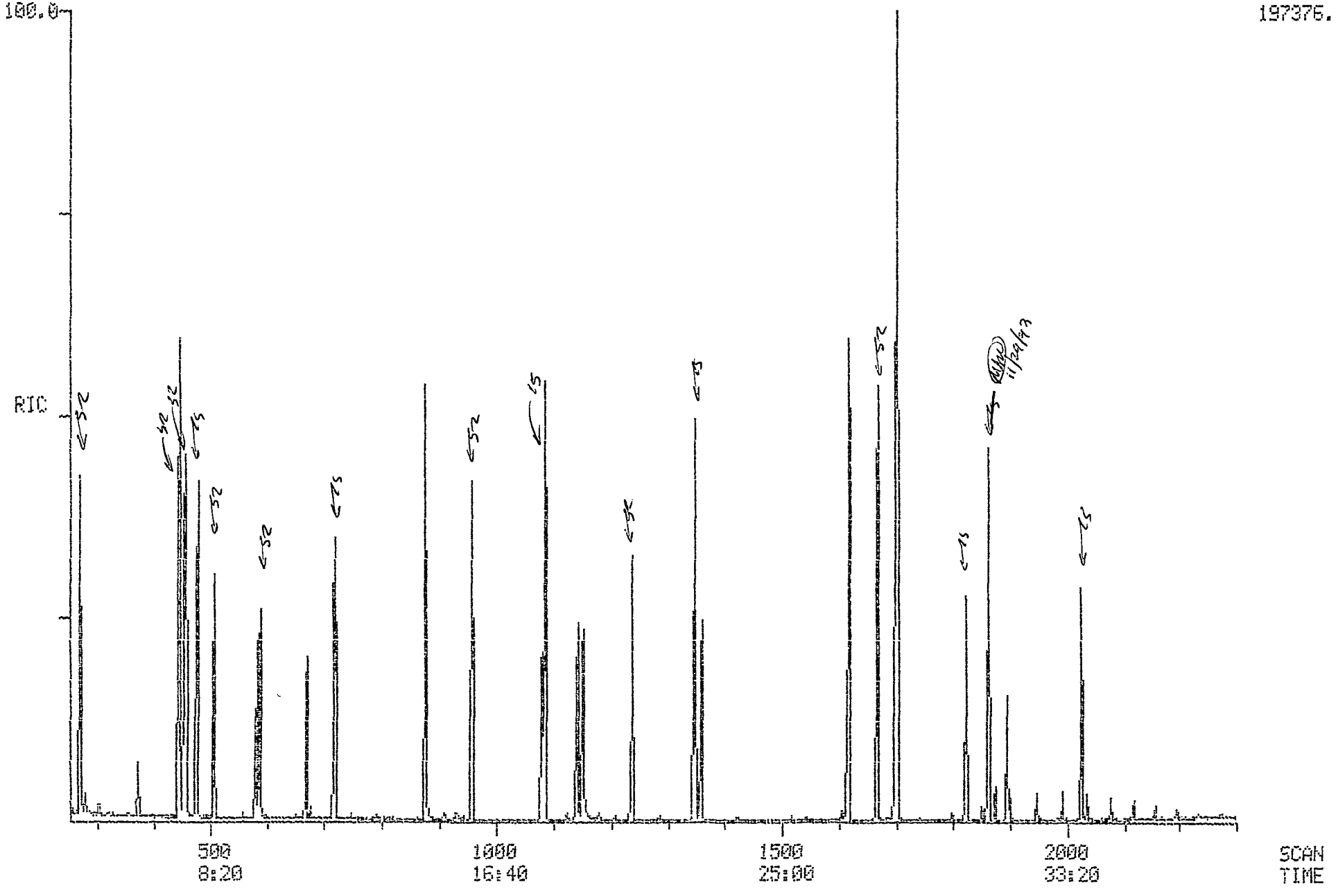
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	74	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	50	
84-66-2	Diethylphthalate	1	BJ
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	84	E
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	0.6	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	50	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A) anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	BJ
117-84-0	Di-n-Octylphthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

RIC
11/24/93 18:59:00
SAMPLE: EXQ12MS
CONDS.: INST. 025 (40F2T0190@9T0310@10H9)
RANGE: G 1,2300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ12BM #1
CALI: EXQ12BM #3

SCANS 250 TO 2300



Quantitation Report File: EXQ12BM

Data: EXQ12BM.TI
11/24/93 18:59:00
Sample: EXQ12MS
Conds.: INST. 025 (40F2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.000
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT.STD.)***
2	CI40 D8-NAPHTHALENE***(INT.STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT.STD.)****
5	CI70 D12-CHRYSENE***(INT.STD.)***
6	CI75 D12-PERYLENE***(INT.STD.)***
7	CS50 2-FLUOROPHENOL***(SURR.STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR.STD)***
9	CS45 D6-PHENOL***(SURR.STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR.STD)***
11	CS20 D5-NITROBENZENE***(SURR.STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR.STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR.STD.)***
14	CS30 D14-TERPHENYL***(SURR.STD.)***
15	C315 PHENOL
16	C330 2-CHLOROPHENOL
17	C340 1,4-DICHLOROBENZENE
18	C370 N-NITROSO-DI-N-PROPYLAMINE
19	C445 1,2,4-TRICHLOROBENZENE
20	C465 4-CHLORO-3-METHYLPHENOL
21	C550 ACENAPHTHENE
22	C560 4-NITROPHENOL
23	C570 2,4-DINITROTOLUENE
24	C580 DIETHYL PHTHALATE
25	C635 PENTACHLOROPHENOL
26	C650 DI-N-BUTYL PHTHALATE
27	C715 PYRENE
28	C745 BIS(2-ETHYLHEXYL) PHTHALATE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	475	7:55	1	1.000	A BB	16918.	40.000	NG/UL	1.66
2	136	722	12:02	2	1.000	A BB	59141.	40.000	NG/UL	1.66
3	164	1079	17:59	3	1.000	A BB	35725.	40.000	NG/UL	1.66
4	188	1360	22:40	4	1.000	A BV	53079.	40.000	NG/UL	1.66
5	240	1823	30:23	5	1.000	A BB	49915.	40.000	NG/UL	1.66
6	264	2026	33:46	6	1.000	A BB	50189.	40.000	NG/UL	1.66
7	112	269	4:29	1	0.566	A BB	71362.	134.854	NG/UL	5.58
8	132	444	7:24	1	0.935	A BB	72297.	122.266	NG/UL	5.06
9	99	455	7:35	1	0.958	A BB	99561.	134.413	NG/UL	5.57
10	152	508	8:28	1	1.069	A BB	29515.	75.867	NG/UL	3.14
11	82	589	9:49	2	0.816	A BV	61218.	95.335	NG/UL	3.95
12	172	959	15:59	3	0.889	A BB	95627.	88.078	NG/UL	3.65
13	330	1238	20:38	3	1.147	A BB	23529.	143.587	NG/UL	5.95
14	244	1669	27:49	5	0.916	A BB	111674.	97.441	NG/UL	4.03
15	94	458	7:38	1	0.964	A BV	98555.	124.785	NG/UL	5.17

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
16	128	447	7:27	1	0.941	A BB	82611.	138.207	NG/UL	5.72
17	146	478	7:58	1	1.006	A BB	52356.	81.271	NG/UL	3.37
18	70	583	9:43	1	1.227	A BV	36341.	83.489	NG/UL	3.46
19	180	719	11:59	2	0.996	A BB	40738.	85.941	NG/UL	3.56
20	107	878	14:38	2	1.216	A BB	71800.	148.889	NG/UL	6.16
21	153	1086	18:06	3	1.006	A BB	83685.	94.726	NG/UL	3.92
22	109	1152	19:12	3	1.068	A BB	20911.	148.854	NG/UL	6.16
23	165	1142	19:02	3	1.058	A BB	35255.	100.102	NG/UL	4.14
24	149	1207	20:07	3	1.119	A BB	2474.	2.101	NG/UL	0.09
25	266	1348	22:28	4	0.991	A BB	38112.	168.148	NG/UL	6.96
26	149	1517	25:17	4	1.115	A BB	2316.	1.166	NG/UL	0.05
27	202	1619	26:59	5	0.888	A BB	173680.	99.742	NG/UL	4.13
28	149	1874	31:14	5	1.028	A BB	5813.	5.871	NG/UL	0.24

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ02MSD

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ02BDR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ02BDR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1400	
111-44-4	bis(2-Chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	1400	
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	840	
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-Di-n-Propylamine	790	
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	28	J
78-59-1	Isophorone	31	J
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)Methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	840	
91-20-3	Naphthalene	74	J
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-Methylphenol	1400	
91-57-6	2-Methylnaphthalene	29	J
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	860	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ02MSD

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: EXQ02BDR

Sample wt/vol: 30.0 (g/mL) G Lab File ID: EXQ02BDR

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/11/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

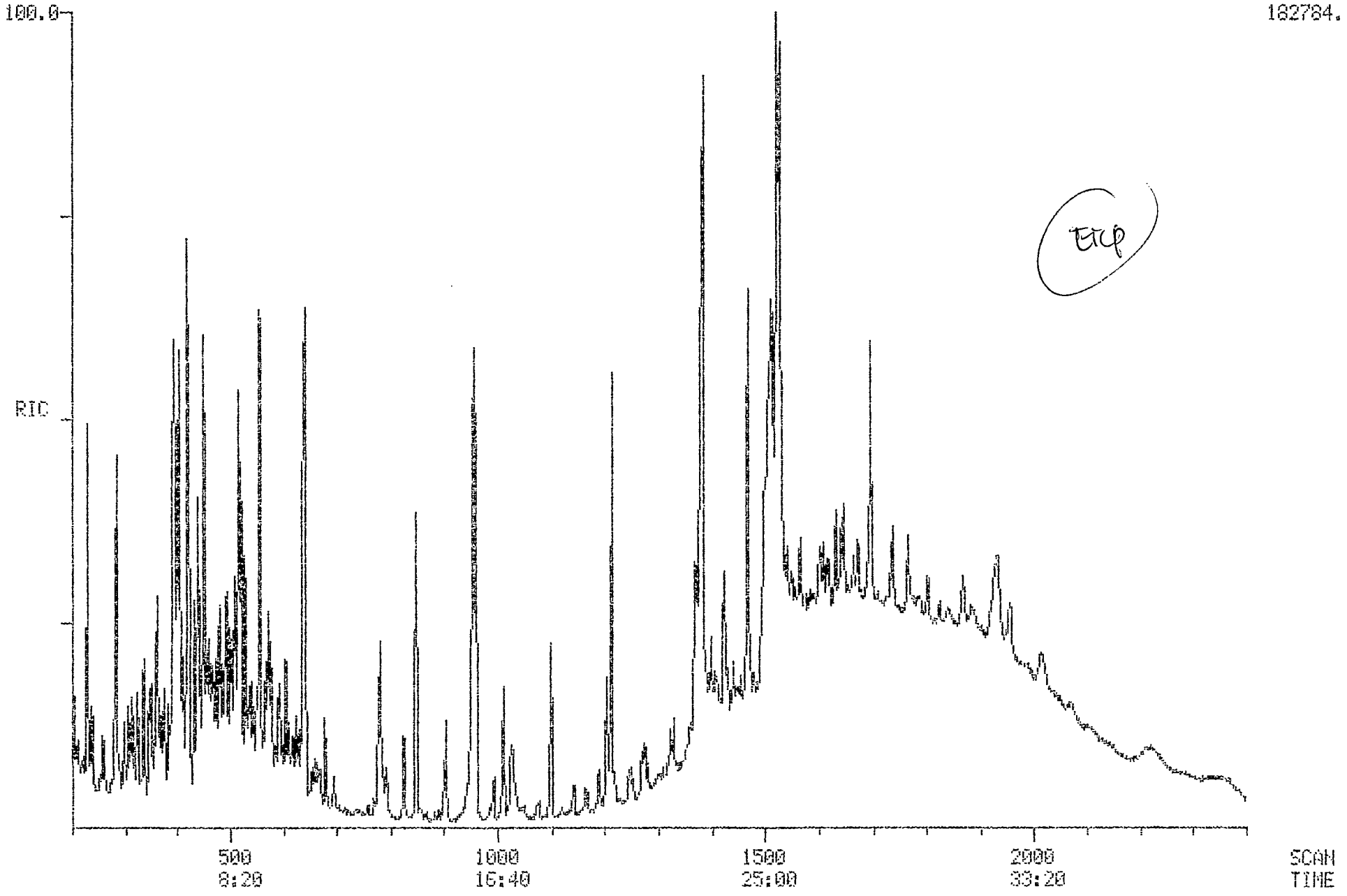
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1500	
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	890	
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-Methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	1200	
85-01-8	Phenanthrene	26	J
120-12-7	Anthracene	420	U
86-74-8	Carbazole	420	U
84-74-2	Di-n-Butylphthalate	140	J
206-44-0	Fluoranthene	42	J
129-00-0	Pyrene	1600	
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(A) anthracene	31	J
218-01-9	Chrysene	50	J
117-81-7	bis(2-Ethylhexyl)Phthalate	210	J
117-84-0	Di-n-Octylphthalate	420	U
205-99-2	Benzo(b)Fluoranthene	89	J
207-08-9	Benzo(k)Fluoranthene	420	U
50-32-8	Benzo(a)Pyrene	27	J
193-39-5	Indeno(1,2,3-cd)Pyrene	420	U
53-70-3	Dibenz(a,h)Anthracene	420	U
191-24-2	Benzo(g,h,i)Perylene	420	U

(1) - Cannot be separated from Diphenylamine

RIC
12/02/93 21:25:00
SAMPLE: EX002MSDRE
CONDS.: INST. 001
RANGE: G 1,2400 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EX002BDR #1
CALI: EX002BDR #3

SCANS 200 TO 2400



Quantitation Report File: EXQ02BDR

Data: EXQ02BDR.TI
12/02/93 21:25:00
Sample: EXQ02MSD~~RE~~ 9P 12-6-93
Conds.: INST. 001
Formula: Instrument: 001 Weight: 0.000
Submitted by: Analyst: CLT Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT.STD.)***
2	CI40 D8-NAPHTHALENE***(INT.STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT.STD.)***
5	CI70 D12-CHRYSENE***(INT.STD.)***
6	CI75 D12-PERYLENE***(INT.STD.)***
7	CS50 2-FLUOROPHENOL***(SURR.STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR.STD.)***
9	CS45 D5-PHENOL***(SURR.STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR.STD)***
11	CS20 D5-NITROBENZENE***(SURR.STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR.STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR.STD.)***
14	CS30 D14-TERPHENYL***(SURR.STD.)***
15	C315 PHENOL
16	C330 2-CHLOROPHENOL
17	C340 1,4-DICHLOROBENZENE
18	C370 N-NITROSO-DI-N-PROPYLAMINE
19	C410 NITROBENZENE
20	C415 ISOPHRONE
21	C445 1,2,4-TRICHLOROBENZENE
22	C450 NAPHTHALENE
23	C465 4-CHLORO-3-METHYLPHENOL
24	C470 2-METHYLNAPHTHALENE
25	C550 ACENAPHTHENE
26	C560 4-NITROPHENOL
27	C570 2,4-DINITROTOLUENE
28	C635 PENTACHLOROPHENOL
29	C640 PHENANTHRENE
30	C650 DI-N-BUTYL PHTHALATE
31	C655 FLUORANTHENE
32	C715 PYRENE
33	C730 BENZO(A) ANTHRACENE
34	C745 BIS(2-ETHYLHEXYL) PHTHALATE
35	C740 CHRYSENE
36	C765 BENZO(B) FLUORANTHENE
37	C775 BENZO(A) PYRENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	420	7:00	1	1.000	A BB	34823.	40.000	NG/UL	3.07
2	136	641	10:41	2	1.000	A BB	122929.	40.000	NG/UL	3.07
3	164	955	15:55	3	1.000	A BB	73476.	40.000	NG/UL	3.07
4	188	1214	20:14	4	1.000	A BB	107505.	40.000	NG/UL	3.07
5	240	1697	28:17	5	1.000	A BB	60856.	40.000	NG/UL	3.07
6	264	1955	32:35	6	1.000	A BB	24252.	40.000	NG/UL	3.07

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
7	112	229	3:49	1	0.545	A BB	65026.	57.432	NG/UL	4.41
8	132	392	6:32	1	0.933	A BB	58851.	58.643	NG/UL	4.51
9	99	403	6:43	1	0.960	A VV	87515.	60.822	NG/UL	4.67
10	152	450	7:30	1	1.071	A BB	30277.	41.412	NG/UL	3.18
11	82	522	8:42	2	0.814	A BB	48779.	39.989	NG/UL	3.07
12	172	848	14:08	3	0.888	A BB	89056.	41.791	NG/UL	3.21
13	330	1099	18:19	3	1.151	A BB	21761.	61.362	NG/UL	4.71
14	244	1522	25:22	5	0.897	A BB	79044.	62.938	NG/UL	4.84
15	94	405	6:45	1	0.964	A BB	91413.	66.090	NG/UL	5.08
16	128	395	6:35	1	0.940	A BB	66619.	66.344	NG/UL	5.10
17	146	422	7:02	1	1.005	A BB	46987.	39.640	NG/UL	3.05
18	70	516	8:36	1	1.229	A BV	37427.	37.291	NG/UL	2.86
19	77	528	8:48	2	0.824	A BB	2220.	1.308	NG/UL	0.10
20	82	576	9:36	2	0.899	A BB	3755.	1.481	NG/UL	0.11
21	180	638	10:38	2	0.995	A BB	36766.	39.522	NG/UL	3.04
22	128	643	10:43	2	1.003	A BB	10976.	3.510	NG/UL	0.27
23	107	781	13:01	2	1.218	A BB	59268.	65.069	NG/UL	5.00
24	142	769	12:49	2	1.200	A BV	3105.	1.372	NG/UL	0.11
25	153	960	16:00	3	1.005	A BB	80416.	40.839	NG/UL	3.14
26	109	1026	17:06	3	1.074	A BB	11512.	71.864	NG/UL	5.52
27	165	1011	16:51	3	1.059	A BB	26958.	42.105	NG/UL	3.23
28	266	1203	20:03	4	0.991	A BB	14523.	57.007	NG/UL	4.38
29	178	1217	20:17	4	1.002	A BB	3695.	1.247	NG/UL	0.10
30	149	1368	22:48	4	1.127	A BB	30658.	6.789	NG/UL	0.52
31	202	1431	23:51	4	1.179	A BB	5865.	1.992	NG/UL	0.15
32	202	1469	24:29	5	0.866	A BB	121655.	74.270	NG/UL	5.71
33	228	1694	28:14	5	0.998	A BV	2560.	1.484	NG/UL	0.11
34	149	1766	29:26	5	1.041	A BB	17680.	10.126	NG/UL	0.78
35	228	1701	28:21	5	1.002	A VB	2694.	2.364	NG/UL	0.18
36	252	1891	31:31	6	0.967	A BB	4945.	4.232	NG/UL	0.33
37	252	1942	32:22	6	0.993	A VB	1044.	1.298	NG/UL	0.10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ12MSD

Lab Name: ENCOTEC Contract: 68-D2-0012
Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: EXQ12BD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EXQ12BD

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: decanted: (Y/N) Date Extracted: 11/08/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/24/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	62	
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	70	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	39	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	42	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	40	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	72	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	46	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ12MSD

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: EXQ12BD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: EXQ12BD

Level: (low/med) LOW Date Received: 11/04/93

% Moisture: decanted: (Y/N) Date Extracted: 11/08/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/24/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

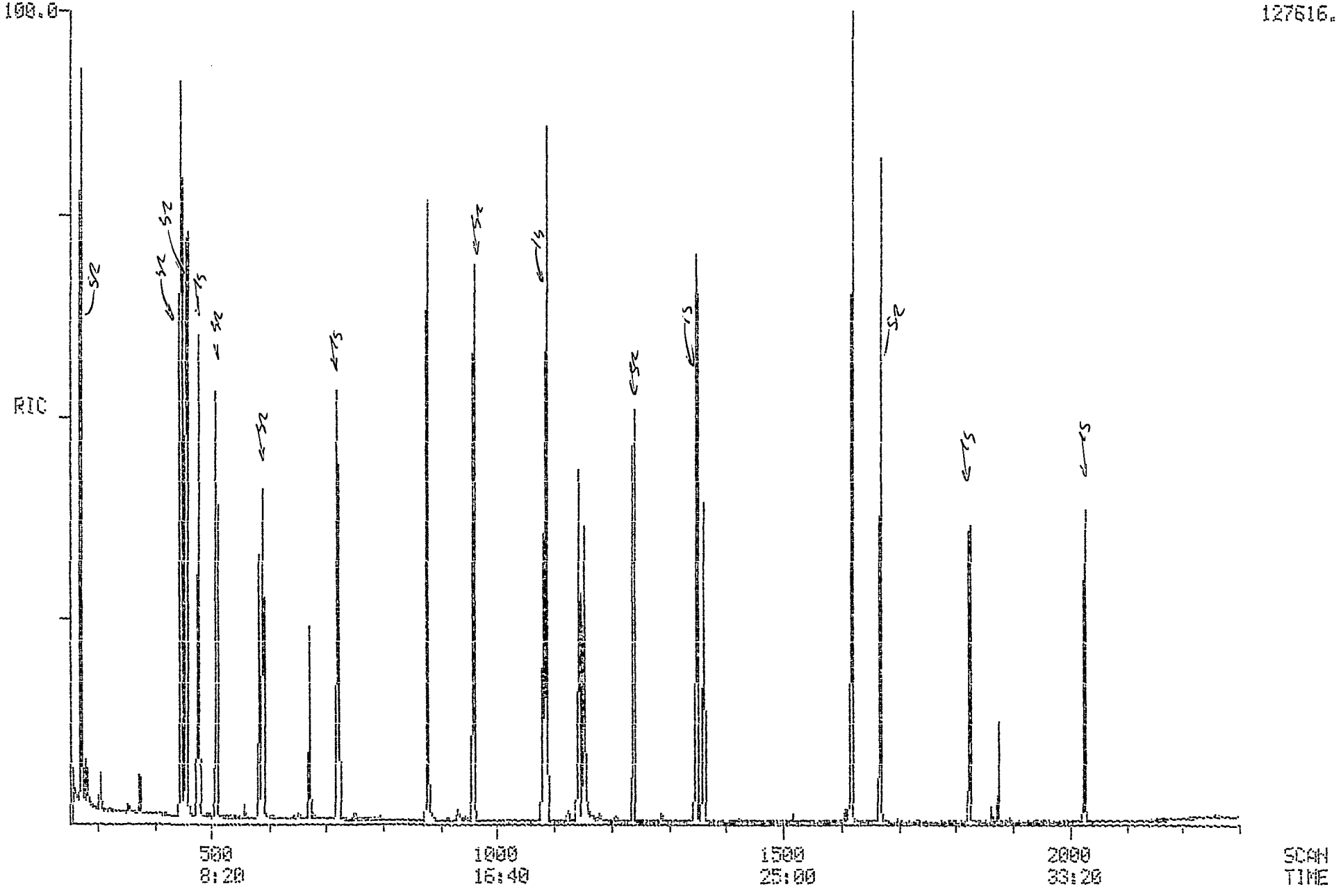
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	68	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	46	
84-66-2	Diethylphthalate	0.8	BJ
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	82	E
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	0.6	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	50	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A) anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	6	BJ
117-84-0	Di-n-Octylphthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

RIC
11/24/93 19:44:00
SAMPLE: EXQ12MSD
CONDS.: INST. Q25 (40F2T0180@9T0310@10H9)
RANGE: G 1.2300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EXQ12BD #1
CALI: EXQ12BD #3

SCANS 250 TO 2300



Quantitation Report File: EXQ12BD

Data: EXQ12BD.TI
11/24/93 19:44:00
Sample: EXQ12MSD
Conds.: INST. 025 (4OF2T0180@9T0310@10H9)
Formula: DB-5 30M 1U 0.32MM Instrument: 025 Weight: 0.000
Submitted by: ENCOTEC Analyst: MW Acct. No.: 75100

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI30 D4-1,4-DICHLOROBENZENE***(INT.STD.)***
2	CI40 D8-NAPHTHALENE***(INT.STD.)***
3	CI50 D10-ACENAPHTHENE***(INT. STD.)***
4	CI60 D10-PHENANTHRENE***(INT.STD.)****
5	CI70 D12-CHRYSENE***(INT.STD.)***
6	CI75 D12-PERYLENE***(INT.STD.)***
7	CS50 2-FLUOROPHENOL***(SURR.STD.)***
8	CS70 D4-2-CHLOROPHENOL***(SURR.STD)***
9	CS45 D6-PHENOL***(SURR.STD.)***
10	CS75 D4-1,2-DICHLOROBENZENE***(SURR.STD)***
11	CS20 D5-NITROBENZENE***(SURR.STD.)***
12	CS25 2-FLUOROBIPHENYL***(SURR.STD.)***
13	CS55 2,4,6-TRIBROMOPHENOL***(SURR.STD.)***
14	CS30 D14-TERPHENYL***(SURR.STD.)***
15	C315 PHENOL
16	C330 2-CHLOROPHENOL
17	C340 1,4-DICHLOROBENZENE
18	C370 N-NITROSO-DI-N-PROPYLAMINE
19	C445 1,2,4-TRICHLOROBENZENE
20	C465 4-CHLORO-3-METHYLPHENOL
21	C550 ACENAPHTHENE
22	C560 4-NITROPHENOL
23	C570 2,4-DINITROTOLUENE
24	C580 DIETHYL PHTHALATE
25	C635 PENTACHLOROPHENOL
26	C650 DI-N-BUTYL PHTHALATE
27	C715 PYRENE
28	C745 BIS(2-ETHYLHEXYL) PHTHALATE

(4)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	476	7:56	1	1.000	A BB	17523.	40.000	NG/UL	1.66
2	136	724	12:04	2	1.000	A BB	59581.	40.000	NG/UL	1.66
3	164	1081	18:01	3	1.000	A BB	37233.	40.000	NG/UL	1.66
4	188	1361	22:41	4	1.000	A BV	53621.	40.000	NG/UL	1.66
5	240	1824	30:24	5	1.000	A BB	49000.	40.000	NG/UL	1.66
6	264	2027	33:47	6	1.000	A BB	44973.	40.000	NG/UL	1.66
7	112	270	4:30	1	0.567	A BB	97965.	178.734	NG/UL	7.44
8	132	445	7:25	1	0.935	A BB	74881.	122.264	NG/UL	5.09
9	99	457	7:37	1	0.960	A BB	104106.	135.697	NG/UL	5.65
10	152	510	8:30	1	1.071	A BB	29059.	72.116	NG/UL	3.00
11	82	591	9:51	2	0.816	A BB	59651.	92.208	NG/UL	3.84
12	172	960	16:00	3	0.888	A BB	93578.	82.700	NG/UL	3.44
13	330	1239	20:39	3	1.146	A BB	22927.	134.247	NG/UL	5.59
14	244	1670	27:50	5	0.916	A BB	109067.	96.943	NG/UL	4.03
15	94	459	7:39	1	0.964	A BB	100789.	123.208	NG/UL	5.13

DK 12/7/93

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
16	128	448	7:28	1	0.941	A BB	87114.	140.708	NG/UL	5.85
17	146	480	8:00	1	1.008	A BB	52561.	78.772	NG/UL	3.28
18	70	584	9:44	1	1.227	A BV	37736.	83.701	NG/UL	3.48
19	180	721	12:01	2	0.996	A BB	38416.	80.444	NG/UL	3.35
20	107	879	14:39	2	1.214	A BB	70142.	144.376	NG/UL	6.01
21	153	1088	18:08	3	1.006	A BB	83910.	91.134	NG/UL	3.79
22	109	1153	19:13	3	1.067	A BB	19882.	135.799	NG/UL	5.65
23	165	1144	19:04	3	1.058	A BB	34006.	92.645	NG/UL	3.85
24	149	1209	20:09	3	1.118	A BB	1858.	1.514	NG/UL	0.06
25	266	1349	22:29	4	0.991	A BB	37356.	163.147	NG/UL	6.79
26	149	1518	25:18	4	1.115	A BB	2335.	1.163	NG/UL	0.05
27	202	1621	27:01	5	0.889	A BB	172623.	100.986	NG/UL	4.20
28	149	1875	31:15	5	1.028	A BB	10752.	11.062	NG/UL	0.46

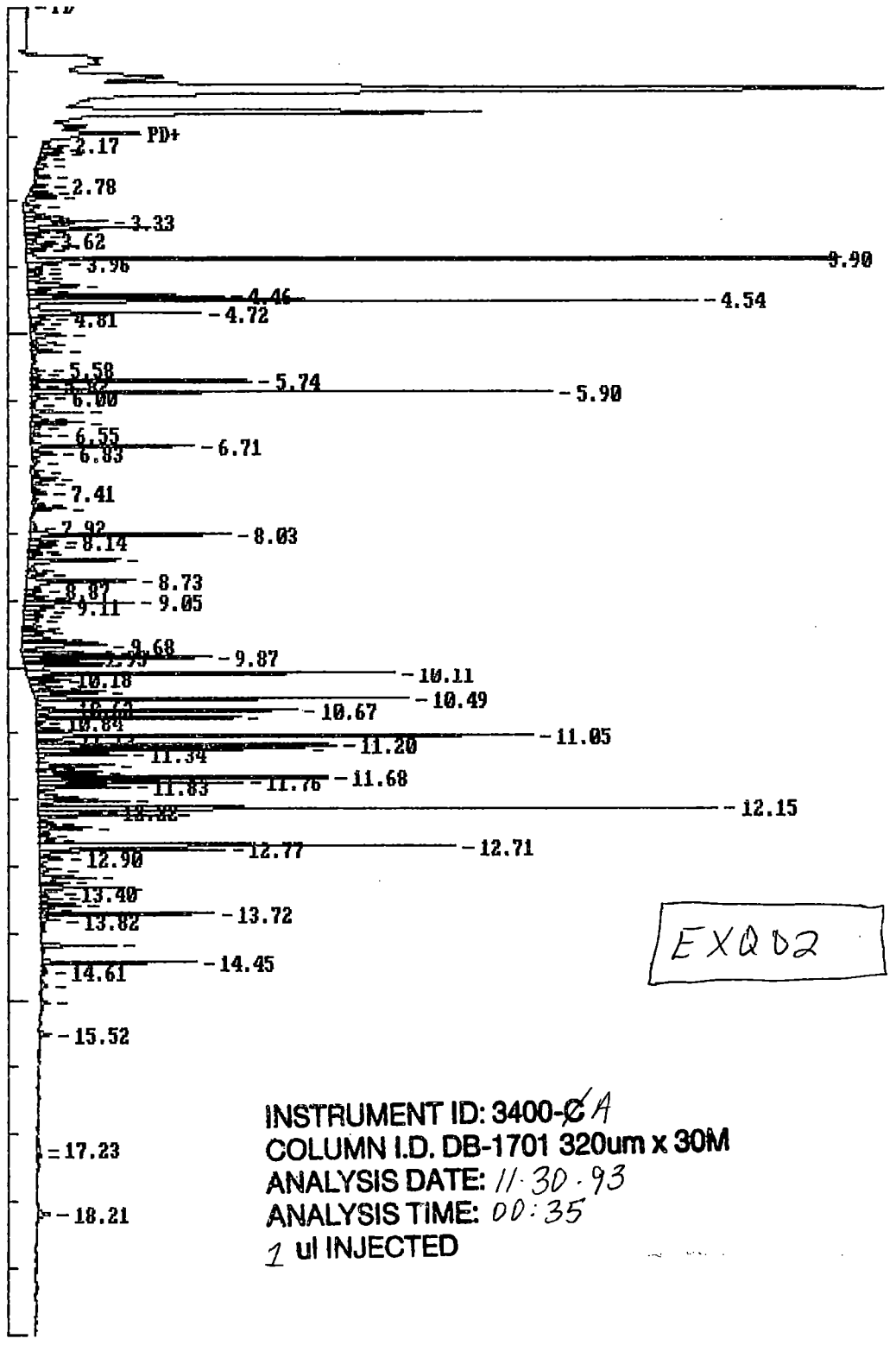
II PESTICIDE QC SUMMARY

CASE # 21170
SDG # EXQ02

III PESTICIDE SAMPLE DATA

CASE # 21170
SDG # EXQ02

Data File = O:076A86.PTS Printed on 11-30-1993 at 11:23:21
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 140 millivolts

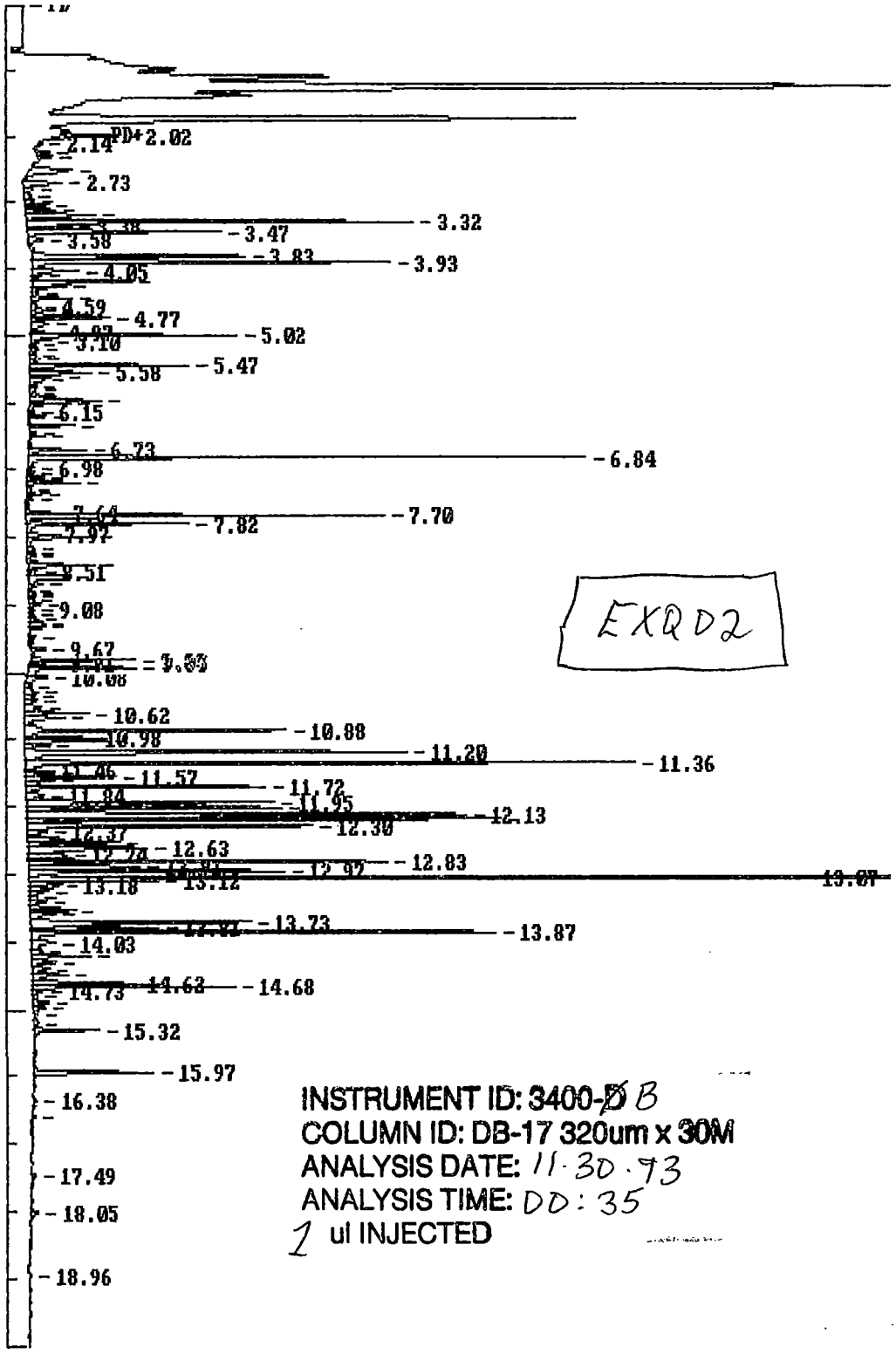


EXQ02

INSTRUMENT ID: 3400-~~C~~A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11·30·93
ANALYSIS TIME: 00:35
1 ul INJECTED

11·30·93
BMG

Data File = D:076B86.PTS Printed on 11-30-1993 at 13:15:21
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 250 millivolts



EXQD2

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11·30·93
ANALYSIS TIME: DD:35
1 ul INJECTED

11·30·93
BMG

EXTERNAL STANDARD TABLE

```
******************** 11-30-1993 11:02:04 Version 5.1 ********************
* Sample Name: EXQ02/23944,,;                          Data File: D:076A86      *
* Date: 11-30-1993 00:35:23 Method: D:076AB  11-30-1993 10:37:36  #  862  *
* Interface: 1   Cycle#:  86   Operator DB  Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250              *
*************************************************************************
* Instrument Type: 3400-A                  Column Type: DB-1701 .32mm x 30M  *
*              Solvent Description: carrier gas = H2; make-up = N2          *
* Conditions:  110H.5to140@20/minto280@11/minH9 INJ=210 DET=300             *
*              Detector 0: ECD Range1          Detector 1: ECD Range1       *
* Misc. Information: 11/22/93,P,;                                           *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    20.00
Area reject:      3500                     One sample per    0.300 sec.
Amount injected:        1.00               Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.310		2.1611	0.7169%	21611	6977	3.1	2			1.0000E-04
2	4.375		0.4592	0.1523%	4592	2428	1.9	2			1.0000E-04
3	4.460	TCX	1.6122	0.5348%	54992	30420	1.8	2	3	0	2.9318E-05
4	4.535		17.6990	5.8714%	176990	106592	1.7	2			1.0000E-04
5	4.720		5.6790	1.8839%	56790	26832	2.1	2			1.0000E-04
6	4.805		0.6675	0.2214%	6675	2530	2.6	2			1.0000E-04
9	5.050		1.5066	0.4998%	15066	5330	2.8	2			1.0000E-04
11	5.195		0.5984	0.1985%	5984	2267	2.6	2			1.0000E-04
12	5.300		1.1212	0.3720%	11212	4811	2.3	2			1.0000E-04
16	5.575		0.4560	0.1513%	4560	2208	2.1	2			1.0000E-04
19	5.740		5.8937	1.9552%	58937	35321	1.7	2			1.0000E-04
21	5.895		13.5820	4.5057%	135820	83976	1.6	2			1.0000E-04
22	5.995	alpha-BHC Conf-	0.6470	0.2146%	6162	2598	2.4	2	3	-.5804	1.0500E-04
24	6.200		1.6424	0.5449%	16424	8255	2.0	2			1.0000E-04
25	6.305		0.6061	0.2011%	6061	2728	2.2	2			1.0000E-04
26	6.355		1.7389	0.5769%	17389	8470	2.1	2			1.0000E-04
27	6.425		0.5150	0.1709%	5150	1555	3.3	2			1.0000E-04
28	6.550		0.6911	0.2293%	6911	3127	2.2	2			1.0000E-04
30	6.710	gamma-BHC < CRQL	3.7027	1.2283%	47929	26075	1.8	2	3	-.4451	7.7254E-05
31	6.825		1.0245	0.3399%	10245	3722	2.8	2			1.0000E-04
33	7.075		0.4351	0.1444%	4351	1797	2.4	2			1.0000E-04
35	7.200		0.8330	0.2763%	8330	3554	2.3	2			1.0000E-04
36	7.275		0.4950	0.1642%	4950	2379	2.1	2			1.0000E-04
38	7.410		0.3969	0.1317%	3969	2112	1.9	1			1.0000E-04
41	7.635		0.8972	0.2976%	8972	5065	1.8	2			1.0000E-04
42	7.920		0.5451	0.1808%	5451	1059	5.1	2			1.0000E-04
43	8.025		6.4451	2.1381%	64451	32198	2.0	2			1.0000E-04
44	8.135		1.2223	0.4055%	12223	4575	2.7	2			1.0000E-04
45	8.200		1.0019	0.3324%	10019	4417	2.3	2			1.0000E-04
46	8.260		0.4711	0.1563%	4711	1724	2.7	2			1.0000E-04
47	8.305		0.5886	0.1953%	5886	2233	2.6	2			1.0000E-04
49	8.410	delta-BHC Conf-	3.1309	1.0386%	35457	14694	2.4	3	3	-.3554	8.8302E-05
50	8.540		0.3755	0.1246%	3755	1178	3.2	4			1.0000E-04
51	8.615		0.9997	0.3316%	9997	3090	3.2	2			1.0000E-04
52	8.725		4.6514	1.5430%	46514	17368	2.7	2			1.0000E-04
53	8.865		0.8152	0.2704%	8152	2492	3.3	2			1.0000E-04
54	8.960		1.0649	0.3533%	10649	3582	3.0	2			1.0000E-04
55	9.050		3.7797	1.2539%	37797	17435	2.2	2			1.0000E-04
56	9.110		1.1684	0.3876%	11684	4514	2.6	2			1.0000E-04
57	9.160		1.1512	0.3819%	11512	3401	3.4	2			1.0000E-04
58	9.245	Endosulfan I Conf- Conf-	0.7855	0.2606%	10699	2926	3.7	2	3	0	7.3413E-05

11-30-93
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1504

60	9.405		0.8484	0.2815%	8484	2847	3.0	2			1.0000E-04
61	9.450		0.5073	0.1683%	5073	2252	2.3	2			1.0000E-04
62	9.490	a. Chlordane<CRQL	0.7561	0.2508%	9549	3481	2.7	2	3	.1054	7.9185E-05
63	9.580		1.4047	0.4660%	14047	4224	3.3	2			1.0000E-04
64	9.610		1.4594	0.4841%	14594	6603	2.2	2			1.0000E-04
65	9.680	4,4'-DDE <CRQL	5.4337	1.8026%	49219	13453	3.7	2	3	.2070	1.1040E-04
66	9.810		2.5571	0.8483%	25571	14541	1.8	2			1.0000E-04
67	9.870	Dieldrin part of Ar1260	7.1404	2.3687%	55252	30140	1.8	2	3	.1014	1.2923E-04
68	9.930		1.6857	0.5592%	16857	8644	2.0	2			1.0000E-04
69	9.975		3.1087	1.0313%	31087	12449	2.5	2			1.0000E-04
70	10.105	AR1260 -1	10.6723	3.5404%	106723	58932	1.8	2			1.0000E-04
71	10.180		0.9979	0.3311%	9979	3720	2.7	2			1.0000E-04
72	10.215	Endrin AR1260	1.1442	0.3796%	11318	4882	2.3	2	3	.1470	1.0109E-04
73	10.315		1.4471	0.4800%	14471	4791	3.0	2			1.0000E-04
74	10.390		2.6480	0.8785%	26480	11312	2.3	2			1.0000E-04
75	10.485		10.4595	3.4698%	104595	59948	1.7	2			1.0000E-04
76	10.620		0.5016	0.1664%	5016	2839	1.8	2			1.0000E-04
77	10.670		8.2950	2.7518%	82950	41902	2.0	2			1.0000E-04
78	10.770		6.1359	2.0355%	61359	32782	1.9	2			1.0000E-04
80	10.955	4,4'-DDD <CRQL	0.8910	0.2956%	9207	4319	2.1	2	3	-.0456	9.6772E-05
81	11.045	AR 1260 -2	17.4842	5.8002%	174842	79938	2.2	2			1.0000E-04
82	11.125		0.5752	0.1908%	5752	2995	1.9	2			1.0000E-04
83	11.195		8.7139	2.8907%	87139	48118	1.8	2			1.0000E-04
84	11.255	4,4'-DDT AR1260	9.3509	3.1020%	108773	43084	2.5	2	3	0	8.5967E-05
85	11.340		2.7058	0.8976%	27058	14180	1.9	3			1.0000E-04
87	11.495		2.5778	0.8551%	25778	12147	2.1	2			1.0000E-04
88	11.545		0.5665	0.1879%	5665	2847	2.0	2			1.0000E-04
89	11.595		2.8781	0.9548%	28781	10233	2.8	2			1.0000E-04
90	11.675	Endrin Aldehyde AR1260	8.3354	2.7652%	89885	46680	1.9	2	3	.2145	9.2734E-05
91	11.760		6.2440	2.0714%	62440	32956	1.9	2			1.0000E-04
92	11.825		2.9177	0.9679%	29177	14685	2.0	2			1.0000E-04
93	11.975		1.7122	0.5680%	17122	6166	2.8	2			1.0000E-04
94	12.040		2.8947	0.9603%	28947	14545	2.0	2			1.0000E-04
95	12.145	AR 1260-3	19.3265	6.4113%	193265	109214	1.8	2			1.0000E-04
96	12.215	Endo sulfate AR1260	2.3647	0.7845%	21188	9695	2.2	2	3	.2873	1.1160E-04
97	12.250		4.6256	1.5345%	46256	21161	2.2	2			1.0000E-04
98	12.375	Methoxychlor AR 1260	1.5617	0.5181%	5780	2626	2.2	2	3	.4464	2.7021E-04
99	12.435		2.3873	0.7920%	23873	8386	2.8	3			1.0000E-04
101	12.610		0.9721	0.3225%	9721	2693	3.6	2			1.0000E-04
102	12.705	AR 1260-4	14.7587	4.8960%	147587	67037	2.2	2			1.0000E-04
103	12.765	Endrin Ketone AR1260	2.7877	0.9248%	62290	29827	2.1	2	3	-.2734	4.4753E-05
104	12.895		1.0800	0.3583%	10800	3726	2.9	2			1.0000E-04
105	13.050		0.8226	0.2729%	8226	3332	2.5	2			1.0000E-04
106	13.185		2.0780	0.6893%	20780	8830	2.4	2			1.0000E-04
107	13.255		0.8639	0.2866%	8639	4612	1.9	2			1.0000E-04
108	13.330		2.4133	0.8006%	24133	13519	1.8	2			1.0000E-04
109	13.400		0.6841	0.2269%	6841	2691	2.5	2			1.0000E-04
110	13.495		0.7400	0.2455%	7400	3502	2.1	2			1.0000E-04
111	13.595		1.4498	0.4810%	14498	6416	2.3	2			1.0000E-04
112	13.645		0.4386	0.1455%	4386	2099	2.1	2			1.0000E-04
113	13.720	AR 1260-5	5.0468	1.6742%	50468	27853	1.8	2			1.0000E-04
114	13.815		0.6571	0.2180%	6571	3009	2.2	2			1.0000E-04
118	14.195		2.1067	0.6989%	21067	12066	1.7	2			1.0000E-04
120	14.450	DCB	4.2238	1.4012%	42783	24775	1.7	2	3	0	9.8726E-05
122	14.610		0.3608	0.1197%	3608	948	3.8	2			1.0000E-04
123	14.795		0.4429	0.1469%	4429	1018	4.3	1			1.0000E-04

TOTAL AMOUNT = 301.4436

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EXTERNAL STANDARD TABLE

********** 11-30-1993 12:27:44 Version 5.1 **********

* Sample Name: EX002/23944,,; Data File: 0:076B86 *
* Date: 11-30-1993 00:35:29 Method: 0:076BB 11-30-1993 11:14:42 # 886 *
* Interface: 2 Cycle#: 86 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.590		0.4822	0.0967%	4822	1480	3.3	2			1.0000E-04
2	4.645		1.4880	0.2984%	14880	6484	2.3	2			1.0000E-04
3	4.715		3.0303	0.6076%	30303	16958	1.8	2			1.0000E-04
4	4.765		4.2436	0.8509%	42436	22130	1.9	2			1.0000E-04
5	4.850		1.8395	0.3688%	18395	4775	3.9	2			1.0000E-04
6	4.965		0.8074	0.1619%	8074	3609	2.2	2			1.0000E-04
7	5.015	TCX	0.0152	0.0030%	112194	57833	1.9	3	7	0	1.3549E-07
8	5.095		0.9527	0.1910%	9527	4882	2.0	4			1.0000E-04
10	5.230		0.8761	0.1757%	8761	2203	4.0	2			1.0000E-04
12	5.370		0.9078	0.1820%	9078	2515	3.6	2			1.0000E-04
13	5.470		7.7553	1.5550%	77553	44424	1.7	2			1.0000E-04
14	5.575		4.0995	0.8220%	40995	17254	2.4	2			1.0000E-04
15	5.620		1.9360	0.3882%	19360	8732	2.2	2			1.0000E-04
16	5.675		1.6877	0.3384%	16877	4029	4.2	2			1.0000E-04
17	5.760		0.4356	0.0873%	4356	1903	2.3	2			1.0000E-04
18	5.795		0.7932	0.1590%	7932	2111	3.8	2			1.0000E-04
19	5.885		0.3725	0.0747%	3725	1762	2.1	2			1.0000E-04
20	5.945		1.9691	0.3948%	19691	7178	2.7	2			1.0000E-04
21	5.990		4.3829	0.8788%	43829	20451	2.1	2			1.0000E-04
22	6.030		2.9308	0.5876%	29308	11676	2.5	3			1.0000E-04
24	6.220		1.0773	0.2160%	10773	4698	2.3	2			1.0000E-04
26	6.355		2.2606	0.4533%	22606	12981	1.7	2			1.0000E-04
28	6.515		0.6560	0.1315%	6560	4350	1.5	1			1.0000E-04
30	6.725		3.5168	0.7051%	35168	16526	2.1	2			1.0000E-04
31	6.835		26.3912	5.2916%	263912	158318	1.7	3			1.0000E-04
32	6.975		0.5414	0.1086%	5414	1685	3.2	4			1.0000E-04
33	7.050		0.4053	0.0813%	4053	1874	2.2	4			1.0000E-04
34	7.125		0.9780	0.1961%	9780	4732	2.1	2			1.0000E-04
35	7.205	gamma-BHC	0.0026	0.0005%	28202	15100	1.9	2	7	.1692	9.1880E-08
36	7.305		0.4091	0.0820%	4091	1260	3.2	2			1.0000E-04
38	7.385	beta-BHC	0.0027	0.0005%	9741	4260	2.3	2	7	.1675	2.7691E-07
39	7.450		0.4803	0.0963%	4803	1917	2.5	2			1.0000E-04
41	7.635		1.3256	0.2658%	13256	6470	2.0	2			1.0000E-04
42	7.695		18.9784	3.8053%	189784	101434	1.9	2			1.0000E-04
43	7.815	Heptachlor	0.0103	0.0021%	92179	45501	2.0	2	7	.2921	1.1145E-07
44	7.970		0.7726	0.1549%	7726	3851	2.0	2			1.0000E-04
45	8.010		4.8234	0.9671%	48234	18816	2.6	2			1.0000E-04
46	8.185		0.7153	0.1434%	7153	2137	3.3	2			1.0000E-04
47	8.240		0.5940	0.1191%	5940	2010	3.0	2			1.0000E-04
48	8.270		0.6247	0.1253%	6247	2201	2.8	2			1.0000E-04
49	8.380	Aldrin	0.0005	0.0001%	6532	2599	2.5	2	7	0	8.1798E-08
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]

51	8.505		0.8505	0.1705%	8505	2750	3.0	2			1.0000E-04
52	8.585		5.0807	1.0187%	50807	11998	4.2	2			1.0000E-04
53	8.705		1.2001	0.2406%	12001	4182	2.9	2			1.0000E-04
55	8.835		0.3998	0.0802%	3998	1953	2.0	2			1.0000E-04
56	8.875		0.4355	0.0873%	4355	1935	2.3	2			1.0000E-04
57	8.935		0.4108	0.0824%	4108	1517	2.7	2			1.0000E-04
58	8.990		1.2229	0.2452%	12229	3432	3.6	2			1.0000E-04
59	9.080		0.4307	0.0864%	4307	1548	2.8	2			1.0000E-04
60	9.150		0.3568	0.0715%	3568	1523	2.3	2			1.0000E-04
61	9.220		0.4859	0.0974%	4859	2468	2.0	2			1.0000E-04
62	9.290		1.2647	0.2536%	12647	4506	2.8	2			1.0000E-04
63	9.320		1.4651	0.2938%	14651	4407	3.3	2			1.0000E-04
64	9.485	Hept. epoxide	0.0004	0.0001%	3595	1881	1.9	2	7	.1524	1.0548E-07
67	9.665		0.8734	0.1751%	8734	3963	2.2	2			1.0000E-04
68	9.825		5.5982	1.1225%	55982	29985	1.9	2			1.0000E-04
69	9.905		0.8205	0.1645%	8205	5011	1.6	2			1.0000E-04
70	9.945		6.9540	1.3943%	69540	30839	2.3	2			1.0000E-04
71	10.080	a. Chlordane	0.0022	0.0004%	23998	6222	3.9	2	7	0	9.1302E-08
72	10.205		0.5866	0.1176%	5866	2096	2.8	2			1.0000E-04
73	10.305		1.5349	0.3078%	15349	4171	3.7	2			1.0000E-04
74	10.345		1.1616	0.2329%	11616	3330	3.5	2			1.0000E-04
75	10.425		1.3174	0.2641%	13174	3800	3.5	2			1.0000E-04
76	10.525		1.9084	0.3826%	19084	5041	3.8	2			1.0000E-04
77	10.620	4,4'-DDE	0.0052	0.0010%	46432	18403	2.5	2	7	.0996	1.1134E-07
78	10.685	Dieldrin	0.0033	0.0007%	33470	11479	2.9	2	7	.1465	9.9731E-08
79	10.875	AR 1260-1	16.8615	3.3808%	168615	73946	2.3	2			1.0000E-04
80	10.975		3.2039	0.6424%	32039	16267	2.0	2			1.0000E-04
81	11.020		7.6812	1.5401%	76812	24026	3.2	2			1.0000E-04
82	11.095		1.3670	0.2741%	13670	7306	1.9	2			1.0000E-04
83	11.200	AR 1260-2	25.8471	5.1825%	258471	108229	2.4	2			1.0000E-04
84	11.360	Endrin	0.0402	0.0081%	331109	172905	1.9	2	7	.2762	1.2132E-07
85	11.455		0.7717	0.1547%	7717	3111	2.5	2			1.0000E-04
86	11.500		1.9557	0.3921%	19557	8289	2.4	2			1.0000E-04
87	11.565		5.0437	1.0113%	50437	25814	2.0	2			1.0000E-04
88	11.620	4,4'-DDD	0.0034	0.0007%	25139	8265	3.0	2	7	0	1.3477E-07
89	11.715	Endosulfan II	0.0129	0.0026%	129398	67540	1.9	2	7	.3996	9.9585E-08
90	11.840		2.3679	0.4748%	23679	5220	4.5	2			1.0000E-04
91	11.945		22.4212	4.4956%	224212	69868	3.2	2			1.0000E-04
92	12.030		14.7921	2.9659%	147921	71864	2.1	2			1.0000E-04
93	12.130	4,4'-DDT	0.0566	0.0114%	347876	124954	2.8	2	7	-.1472	1.6277E-07
94	12.190		27.7698	5.5680%	277698	134827	2.1	2			1.0000E-04
95	12.300	Endrin Aldehyde	0.0358	0.0072%	205220	80595	2.5	2	7	.2627	1.7436E-07
96	12.370		1.7210	0.3451%	17210	5666	3.0	2			1.0000E-04
97	12.445		0.9174	0.1840%	9174	3749	2.4	2			1.0000E-04
98	12.490	Endo. sulfate	0.0038	0.0008%	24316	10315	2.4	2	7	0	1.5764E-07
99	12.540		5.7378	1.1505%	57378	26159	2.2	2			1.0000E-04
100	12.625		11.2141	2.2485%	112141	33880	3.3	2			1.0000E-04
101	12.735		3.6581	0.7335%	36581	11167	3.3	2			1.0000E-04
102	12.775		2.6342	0.5282%	26342	12903	2.0	2			1.0000E-04
103	12.825	AR 1260-3	19.6371	3.9374%	196371	101668	1.9	2			1.0000E-04
104	12.910		8.0533	1.6147%	80533	31687	2.5	2			1.0000E-04
105	12.970		20.9945	4.2095%	209945	72292	2.9	2			1.0000E-04
106	13.070	AR 1260-4	58.3451	11.6986%	583451	312604	1.9	2			1.0000E-04
107	13.115		7.4609	1.4959%	74609	36565	2.0	2			1.0000E-04
108	13.175		3.3293	0.6676%	33293	8502	3.9	2			1.0000E-04
109	13.265		1.8346	0.3678%	18346	5564	3.3	2			1.0000E-04
110	13.355		0.8130	0.1630%	8130	2331	3.5	2			1.0000E-04
111	13.410		1.6354	0.3279%	16354	4992	3.3	2			1.0000E-04
112	13.505		2.1222	0.4255%	21222	8429	2.5	2			1.0000E-04
113	13.545		2.7058	0.5425%	27058	12700	2.1	2			1.0000E-04
114	13.595		2.4984	0.5009%	24984	7379	3.4	2			1.0000E-04
115	13.725	Methoxychlor	0.0214	0.0043%	171302	62020	2.8	2	7	0	1.2466E-07
116	13.805	Endrin Ketone	0.0315	0.0063%	72364	36428	2.0	2	7	-.1534	4.3502E-07
117	13.870	AR 1260-5	27.1852	5.4508%	271852	132307	2.1	2			1.0000E-04
118	14.025		3.1379	0.6292%	31379	7029	4.5	2			1.0000E-04
119	14.150		1.6597	0.3328%	16597	3195	5.2	2			1.0000E-04

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120	14.225		3.0237	0.7266%	30237	10850	2.2	2				1.0000E-04
121	14.315		2.2197	0.4451%	22197	6975	3.2	2				1.0000E-04
122	14.410		2.0039	0.4018%	20039	5147	3.9	2				1.0000E-04
123	14.505		2.8664	0.5747%	28664	10215	2.8	2				1.0000E-04
124	14.620		5.6177	1.1264%	56177	25792	2.2	2				1.0000E-04
125	14.675		10.6772	2.1408%	106772	57026	1.9	2				1.0000E-04
126	14.730		0.7802	0.1564%	7802	3341	2.3	2				1.0000E-04
127	14.795		0.6848	0.1373%	6848	1410	4.9	2				1.0000E-04
128	14.910		1.4562	0.2920%	14562	4645	3.1	2				1.0000E-04
129	14.985		1.4600	0.2927%	14600	3617	4.0	2				1.0000E-04
130	15.095		0.5787	0.1160%	5787	1329	4.4	2				1.0000E-04
131	15.215		0.7043	0.1412%	7043	1426	4.9	2				1.0000E-04
132	15.320		4.3696	0.8761%	43696	18777	2.3	2				1.0000E-04
137	15.965	DCB	0.0088	0.0018%	84267	34174	2.5	2	7		0	1.0420E-07

TOTAL AMOUNT = 498.7378

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11.30.93
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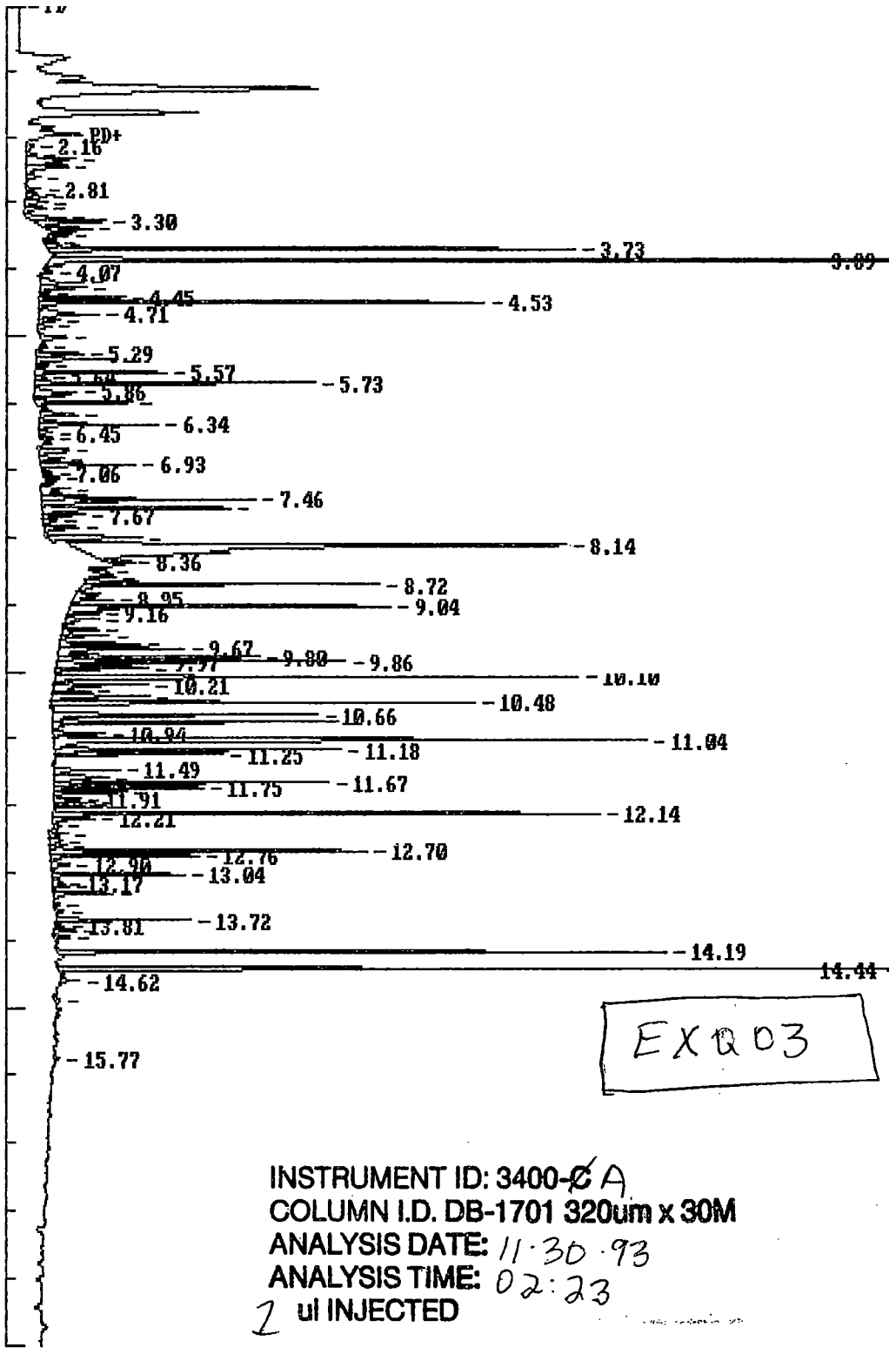
Data File = 0:076A90.PTS Printed on 11-30-1993 at 11:25:55
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 250 millivolts



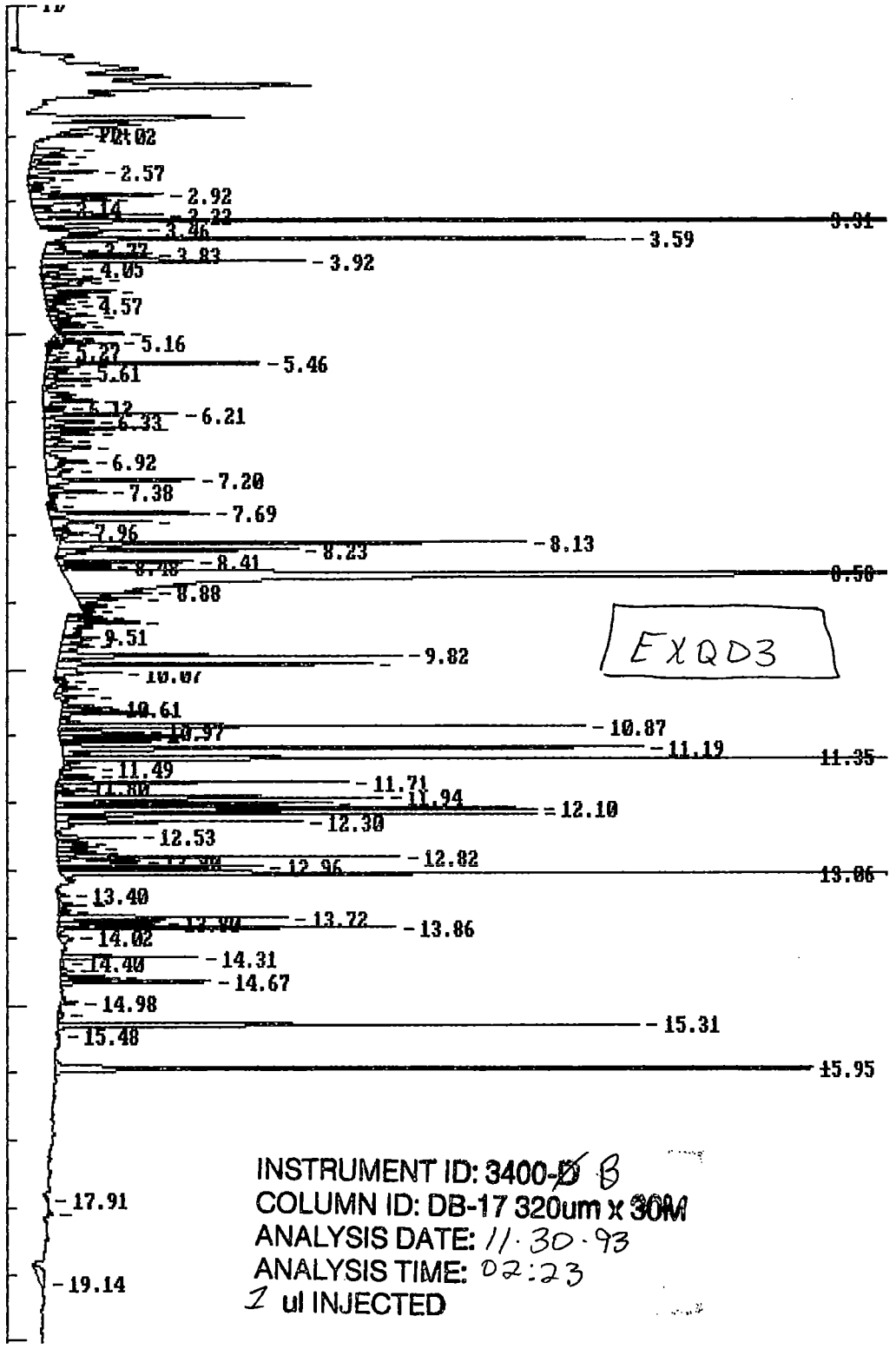
EXQ03

INSTRUMENT ID: 3400-~~C~~ A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11·30·93
ANALYSIS TIME: 02:23
1 ul INJECTED

11·30·93 BMG

1510

Data File = 0:076B90.PTS Printed on 11-30-1993 at 13:21:06
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 440 millivolts



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++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-30-1993 11:27:19 Version 5.1 **********

* Sample Name: EX003/23945,,; Data File: 0:076A90 *

* Date: 11-30-1993 02:23:34 Method: 076AB 11-30-1993 10:37:36 # 862 *

* Interface: 1 Cycle#: 90 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 5 Threshold: 50 Area Threshold: 500 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	2.160		0.8811	0.1029%	8811	1987	4.4	2			1.0000E-04
2	2.285		0.7273	0.0849%	7273	2774	2.6	2			1.0000E-04
3	2.355		6.5571	0.7657%	65571	13990	4.7	2			1.0000E-04
4	2.475		4.1194	0.4810%	41194	11777	3.5	2			1.0000E-04
5	2.630		1.2259	0.1431%	12259	3746	3.3	2			1.0000E-04
6	2.805		0.8509	0.0994%	8509	4144	2.1	2			1.0000E-04
7	2.885		0.6764	0.0790%	6764	3112	2.2	2			1.0000E-04
8	2.940		1.5187	0.1773%	15187	5702	2.7	2			1.0000E-04
9	3.010		1.9070	0.2227%	19070	6377	3.0	2			1.0000E-04
10	3.105		2.1981	0.2567%	21981	6084	3.6	2			1.0000E-04
11	3.250		1.9856	0.2319%	19856	9853	2.0	2			1.0000E-04
12	3.295		7.0211	0.8199%	70211	20148	3.5	2			1.0000E-04
13	3.420		2.0387	0.2381%	20387	11678	1.7	1			1.0000E-04
14	3.530		1.2541	0.1464%	12541	5773	2.2	1			1.0000E-04
15	3.610		0.5031	0.0587%	5031	3483	1.4	2			1.0000E-04
16	3.660		0.9382	0.1096%	9382	4425	2.1	2			1.0000E-04
17	3.730		27.3232	3.1905%	273232	149769	1.8	2			1.0000E-04
18	3.890		96.2020	11.2334%	962020	568536	1.7	1			1.0000E-04
19	4.070		0.4284	0.0500%	4284	2426	1.8	1			1.0000E-04
20	4.225		3.2564	0.3802%	32564	12494	2.6	2			1.0000E-04
21	4.305		3.1269	0.3651%	31269	13378	2.3	2			1.0000E-04
22	4.375		0.8929	0.1043%	8929	2922	3.1	2			1.0000E-04
23	4.450	TCX	1.2506	0.1460%	42656	24448	1.7	2	23	0	2.9318E-05
24	4.525		21.7378	2.5383%	217378	127183	1.7	2			1.0000E-04
25	4.710		5.7258	0.6686%	57258	17405	3.3	2			1.0000E-04
26	4.785		1.6932	0.1977%	16932	6393	2.6	2			1.0000E-04
27	4.885		1.0326	0.1206%	10326	3934	2.6	2			1.0000E-04
28	5.055		2.5944	0.3029%	25944	7608	3.4	1			1.0000E-04
29	5.185		0.4868	0.0568%	4868	2306	2.1	1			1.0000E-04
30	5.290		3.1370	0.3663%	31370	13485	2.3	2			1.0000E-04
31	5.375		4.7909	0.5594%	47909	22530	2.1	2			1.0000E-04
32	5.450		1.1636	0.1359%	11636	3578	3.3	2			1.0000E-04
33	5.565		6.6065	0.7714%	66065	37078	1.8	2			1.0000E-04
34	5.640		0.8048	0.0940%	8048	3195	2.5	2			1.0000E-04
35	5.730		13.5938	1.5873%	135938	79725	1.7	2			1.0000E-04
36	5.855		4.9228	0.5748%	49228	12229	4.0	2			1.0000E-04
37	6.015	alpha-BHC Conf+	5.6213	0.6564%	53536	27433	2.0	1	23	-.0245	1.0500E-04
38	6.190		2.7733	0.3238%	27733	11117	2.5	1			1.0000E-04
39	6.290		1.2541	0.1464%	12541	5003	2.5	2			1.0000E-04
40	6.340		6.0672	0.7085%	60672	33799	1.8	2			1.0000E-04
41	6.450		1.1010	0.1286%	11010	3806	2.9	2			1.0000E-04
42	6.540		0.5339	0.0623%	5339	2822	1.9	1			1.0000E-04

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44	6.850	4.71 gamma-BHC <LRQL	1.6143	0.1885%	16143	6961	2.3	2	36541		1.0000E-04
45	6.930		6.0571	0.7073%	60571	27040	2.2	2			1.0000E-04
46	7.055		0.4354	0.0508%	4354	2796	1.6	2			1.0000E-04
47	7.130	Heptachlor <LRQL	0.8015	0.0936%	9717	4247	2.3	2	23	.2247	8.2482E-05
48	7.285		3.3786	0.3945%	33786	7965	4.2	2			1.0000E-04
49	7.405		2.8007	0.3270%	28007	12991	2.2	2			1.0000E-04
50	7.455		13.6419	1.5930%	136419	60434	2.3	2			1.0000E-04
51	7.580	Aldrin Conf+	9.5248	1.1122%	130617	53150	2.5	2	23	.2247	7.2922E-05
52	7.670		2.7386	0.3198%	27386	12120	2.3	2			1.0000E-04
53	7.745		1.5722	0.1836%	15722	4276	3.7	2			1.0000E-04
54	7.860		3.1618	0.3692%	31618	10077	3.1	1			1.0000E-04
55	8.015	beta-BHC <CRQL	4.1364	0.4830%	68694	25771	2.7	1	23	-.4583	6.0215E-05
56	8.135		67.5121	7.8833%	675121	139609	4.8	1			1.0000E-04
57	8.360		0.7824	0.0914%	7824	5333	1.5	1			1.0000E-04
58	8.525		0.3812	0.0445%	3812	2413	1.6	1			1.0000E-04
59	8.605		0.8364	0.0977%	8364	6148	1.4	1			1.0000E-04
60	8.675		2.5930	0.3028%	25930	15157	1.7	2			1.0000E-04
61	8.715		15.9891	1.8670%	159891	84638	1.9	2			1.0000E-04
62	8.950		4.7265	0.5519%	47265	11858	4.0	1			1.0000E-04
63	9.040		19.4035	2.2657%	194035	91610	2.1	2			1.0000E-04
64	9.155		1.7324	0.2023%	17324	9158	1.9	2			1.0000E-04
65	9.230	Endosulfan I Conf-	1.8932	0.2211%	25788	9614	2.7	2	23	.1162	7.3413E-05
66	9.390		2.2625	0.2642%	22625	10424	2.2	2			1.0000E-04
67	9.480	a. Chlordane Conf+ <LRQL	2.3076	0.2695%	29142	13641	2.1	2	23	.2247	7.9185E-05
68	9.600		4.4654	0.5214%	44654	22763	2.0	2			1.0000E-04
69	9.670	4,4'-DDE Conf+	12.3664	1.4440%	112015	35394	3.2	2	23	.3284	1.1040E-04
70	9.800		9.7404	1.1374%	97404	56987	1.7	2			1.0000E-04
71	9.860	Dieldrin AR1260	23.8190	2.7813%	184312	82200	2.2	2	23	.2247	1.2923E-04
72	9.965		4.9987	0.5837%	49987	26207	1.9	2			1.0000E-04
73	10.095	AR 1260-1	26.7230	3.1204%	267230	149449	1.8	2			1.0000E-04
74	10.205	Endrin AR 1260	6.7122	0.7838%	66397	27020	2.5	2	23	.2738	1.0109E-04
75	10.305		2.4496	0.2860%	24496	11008	2.2	2			1.0000E-04
76	10.375		7.0778	0.8265%	70778	27881	2.5	2			1.0000E-04
77	10.475		21.2881	2.4858%	212881	121434	1.8	2			1.0000E-04
78	10.660		15.2022	1.7751%	152022	75368	2.0	2			1.0000E-04
79	10.760		15.8965	1.8562%	158965	81311	2.0	2			1.0000E-04
80	10.940	4,4'-DDD Conf+	3.1601	0.3690%	32655	14926	2.2	2	23	0	9.6772E-05
81	11.035	AR1260-2	48.5892	5.6737%	485892	169045	2.9	2			1.0000E-04
82	11.180		15.4362	1.8025%	154362	81615	1.9	2			1.0000E-04
83	11.245	4,4'-DDT AR1260 xflag	7.5531	0.8820%	87860	47642	1.8	2	23	.1801	8.5967E-05
84	11.485		3.7499	0.4379%	37499	18538	2.0	2			1.0000E-04
85	11.595	Endrin Aldehyde AR1260	4.3059	0.5028%	46433	15475	3.0	2	23	-.2484	9.2734E-05
86	11.665		14.2991	1.6697%	142991	78182	1.8	2			1.0000E-04
87	11.750		7.6516	0.8935%	76516	42082	1.8	2			1.0000E-04
88	11.815		3.9740	0.4640%	39740	20673	1.9	2			1.0000E-04
89	11.910		1.5616	0.1824%	15616	7574	2.1	2	076490		1.0000E-04
90	11.965		2.3489	0.2743%	23489	11600	2.0	2	P2		1.0000E-04
91	12.025		2.8694	0.3351%	28694	14920	1.9	2			1.0000E-04
92	12.135	Endo. sulfate AR1260-3	30.4600	3.5568%	272929	155664	1.8	2	23 11.30.93	1455	1.1160E-04
93	12.205		3.5755	0.4175%	35755	11703	3.1	2			1.0000E-04
94	12.310	Methoxychlor AR1260	0.9460	0.1105%	3501	1847	1.9	1	23	.1433	2.7021E-04
95	12.425		1.6309	0.1904%	16309	5630	2.9	2	BYG		1.0000E-04
96	12.540		1.5062	0.1759%	15062	3790	4.0	2			1.0000E-04
97	12.600		1.3945	0.1628%	13945	4864	2.9	2			1.0000E-04
98	12.695	AR1260-4	21.5077	2.5114%	215077	90489	2.4	2			1.0000E-04
99	12.755	Endrin Ketone AR1260	3.7150	0.4338%	83011	41980	2.0	2	23	-.1276	4.4753E-05
100	12.895		1.9334	0.2258%	19334	5230	3.7	2			1.0000E-04
101	13.035		7.0457	0.8227%	70457	37536	1.9	2			1.0000E-04
102	13.170		0.9940	0.1161%	9940	2799	3.6	2			1.0000E-04
103	13.215		1.0495	0.1225%	10495	4655	2.3	2			1.0000E-04
104	13.320		3.8789	0.4529%	38789	17043	2.3	2			1.0000E-04
105	13.485		0.4186	0.0489%	4186	1684	2.5	1			1.0000E-04
106	13.575		0.6740	0.0787%	6740	2413	2.8	1			1.0000E-04
107	13.715	AR1260-5	6.8012	0.7942%	68012	38190	1.8	2			1.0000E-04
108	13.810		0.6438	0.0752%	6438	2767	2.3	2			1.0000E-04

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110	13.970		0.8591	0.1003%	8591	4300	2.0	1			1.0000E-04
111	14.185		29.6542	3.4627%	296542	172955	1.7	1			1.0000E-04
112	14.440	DCB	42.5653	4.9703%	431145	246324	1.8	1	23	0	9.8726E-05
113	14.615		1.0764	0.1257%	10764	5562	1.9	1			1.0000E-04
114	14.915		0.6534	0.0763%	6534	1575	4.1	1			1.0000E-04

TOTAL AMOUNT = 856.3909

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++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-30-1993 12:40:36 Version 5.1 **********

* Sample Name: EXQ03/23945,,; Data File: 0:076B90 *

* Date: 11-30-1993 02:23:41 Method: 0:076BB 11-30-1993 11:14:42 # 886 *

* Interface: 2 Cycle#: 90 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,C,; *

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Starting Delay: 0.00 Ending retention time: 19.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.520		1.3117	0.0767%	13117	9627	1.4	1			1.0000E-04
2	4.575		2.3297	0.1363%	23297	14054	1.7	2			1.0000E-04
3	4.635		1.2869	0.0753%	12869	5979	2.2	2			1.0000E-04
4	4.705		2.0195	0.1181%	20195	11365	1.8	2			1.0000E-04
5	4.750		6.8258	0.3993%	68258	24950	2.7	2			1.0000E-04
6	4.845		3.8441	0.2249%	38441	16937	2.3	2			1.0000E-04
7	4.900		4.7529	0.2780%	47529	19777	2.4	2			1.0000E-04
8	4.960		2.0214	0.1182%	20214	8235	2.5	2			1.0000E-04
9	5.010	TCX	0.0116	0.0007%	85276	39645	2.2	2	9	0	1.3549E-07
10	5.085		3.5875	0.2099%	35875	14835	2.4	2			1.0000E-04
11	5.155		6.0447	0.3536%	60447	36253	1.7	2			1.0000E-04
12	5.210		2.4711	0.1446%	24711	10172	2.4	2			1.0000E-04
13	5.270		1.2802	0.0749%	12802	3436	3.7	2			1.0000E-04
14	5.380		3.9644	0.2319%	39644	11745	3.4	2			1.0000E-04
15	5.460		23.2871	1.3623%	232871	108625	2.1	2			1.0000E-04
16	5.560		2.5189	0.1474%	25189	12279	2.1	2			1.0000E-04
17	5.610		4.6473	0.2719%	46473	14468	3.2	2			1.0000E-04
18	5.695		7.6426	0.4471%	76426	28966	2.6	2			1.0000E-04
19	5.790		3.9132	0.2289%	39132	15330	2.6	2			1.0000E-04
20	5.930		5.1446	0.3009%	51446	16666	3.1	2			1.0000E-04
21	5.980		2.7479	0.1608%	27479	14551	1.9	2			1.0000E-04
22	6.020		6.4034	0.3746%	64034	27657	2.3	2			1.0000E-04
23	6.120		3.1745	0.1857%	31745	11067	2.9	2			1.0000E-04
24	6.210		12.9781	0.7592%	129781	67726	1.9	2			1.0000E-04
25	6.330		9.2450	0.5408%	92450	25389	3.6	2			1.0000E-04
26	6.425	alpha-BHC	0.0083	0.0005%	114016	53366	2.1	2	9	0	7.3132E-08
27	6.510		7.2870	0.4263%	72870	25533	2.9	2			1.0000E-04
28	6.620		4.2243	0.2471%	42243	13963	3.0	2			1.0000E-04
29	6.670		1.1870	0.0694%	11870	7049	1.7	2			1.0000E-04
30	6.710		8.8944	0.5203%	88944	23505	3.8	2			1.0000E-04
31	6.850		1.5366	0.0899%	15366	6574	2.3	2			1.0000E-04
32	6.880		2.3650	0.1383%	23650	11039	2.1	2			1.0000E-04
33	6.920		5.7017	0.3335%	57017	22549	2.5	2			1.0000E-04
34	6.970		2.7939	0.1634%	27939	10205	2.7	2			1.0000E-04
35	7.045		5.8963	0.3449%	58963	14848	4.0	2			1.0000E-04
36	7.110		2.4498	0.1433%	24498	9214	2.7	2			1.0000E-04
37	7.195	gamma-BHC	0.0174	0.0010%	188962	75637	2.5	2	9	.1300	9.1880E-08
38	7.285		1.2588	0.0736%	12588	7687	1.6	2			1.0000E-04
39	7.380	beta-BHC	0.0253	0.0015%	91412	30866	3.0	2	9	.1996	2.7691E-07
40	7.440		1.8618	0.1089%	18618	6823	2.7	2			1.0000E-04
41	7.515		1.9968	0.1168%	19968	5377	3.7	2			1.0000E-04
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]

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43	7.650		1.3380	0.0782%	13380	6474	2.1	2			1.0000E-04
44	7.685		17.1767	1.0048%	171767	82625	2.1	2			1.0000E-04
45	7.810	Heptachlor	0.0149	0.0009%	134023	53997	2.5	2	9	.3280	1.1145E-07
46	7.895		3.2727	0.1914%	32727	12228	2.7	2			1.0000E-04
47	7.960		3.0193	0.1766%	30193	12964	2.3	2			1.0000E-04
48	8.005		6.5604	0.3838%	65604	18875	3.5	2			1.0000E-04
49	8.080	delta-BHC	0.0020	0.0001%	19523	9354	2.1	2	9	.4482	1.0128E-07
50	8.130		50.9695	2.9816%	509695	242657	2.1	2			1.0000E-04
51	8.230		25.9792	1.5197%	259792	127377	2.0	2			1.0000E-04
52	8.285		6.8916	0.4031%	68916	20274	3.4	2			1.0000E-04
53	8.410	Aldrin	0.0141	0.0008%	172548	74286	2.3	2	9	.4384	8.1798E-08
54	8.480		6.7782	0.3965%	67782	32784	2.1	2			1.0000E-04
55	8.580		399.3605	23.3620%	3993605	983777	4.1	OV			1.0000E-04
56	8.780		18.4154	1.0773%	184154	40674	4.5	4			1.0000E-04
57	8.875		18.9896	1.1109%	189896	50009	3.8	4			1.0000E-04
58	8.955		19.8428	1.1608%	198428	47750	4.2	2			1.0000E-04
59	9.070		11.8300	0.6920%	118300	30678	3.9	2			1.0000E-04
60	9.130		7.0361	0.4116%	70361	24420	2.9	2			1.0000E-04
61	9.170		8.4902	0.4967%	84902	24714	3.4	2			1.0000E-04
62	9.250		7.9957	0.4677%	79957	30292	2.6	2			1.0000E-04
63	9.320		15.6711	0.9167%	156711	47296	3.3	2			1.0000E-04
64	9.385		5.6391	0.3299%	56391	23542	2.4	2			1.0000E-04
65	9.425		3.3234	0.1944%	33234	16929	2.0	2			1.0000E-04
66	9.460	Hept. epoxide	0.0046	0.0003%	43825	17917	2.4	2	9	0	1.0548E-07
67	9.510		5.1779	0.3029%	51779	17424	3.0	2			1.0000E-04
68	9.555		11.7897	0.6897%	117897	26922	4.4	2			1.0000E-04
69	9.670		11.1074	0.6498%	111074	23630	4.7	2			1.0000E-04
70	9.815		38.0183	2.2240%	380183	178406	2.1	2			1.0000E-04
71	9.935		35.7206	2.0896%	357206	163825	2.2	2			1.0000E-04
72	10.020		4.1005	0.2399%	41005	15907	2.6	2			1.0000E-04
73	10.065	a. Chlordane	0.0114	0.0007%	124982	37687	3.3	2	9	0	9.1302E-08
74	10.200		4.0227	0.2353%	40227	11031	3.6	2			1.0000E-04
75	10.245		2.5487	0.1491%	25487	10266	2.5	2			1.0000E-04
76	10.295		4.1640	0.2436%	41640	17218	2.4	2			1.0000E-04
77	10.345		2.6248	0.1535%	26248	10179	2.6	2			1.0000E-04
78	10.415		6.2336	0.3647%	62336	23346	2.7	2			1.0000E-04
79	10.475		3.2503	0.1901%	32503	11243	2.9	2			1.0000E-04
80	10.560		7.8460	0.4590%	78460	23923	3.3	2			1.0000E-04
81	10.605	4,4'-DDE	0.0114	0.0007%	102201	27616	3.7	2	9	.0580	1.1134E-07
82	10.675	Dieldrin	0.0136	0.0008%	136557	54245	2.5	2	9	.1526	9.9731E-08
83	10.795		5.1341	0.3003%	51341	16385	3.1	2			1.0000E-04
84	10.865	AR1260-1	54.8604	3.2093%	548604	271312	2.0	2			1.0000E-04
85	10.965		9.9606	0.5827%	99606	48560	2.1	2	D76B90		1.0000E-04
86	11.020		20.6511	1.2081%	206512	71393	2.9	2			1.0000E-04
87	11.085		11.9722	0.7004%	119722	57038	2.1	2	P2		1.0000E-04
88	11.190	AR1260-2	66.8752	3.9121%	668752	300087	2.2	2	11·30·93		1.0000E-04
89	11.280		6.1443	0.3594%	61443	21370	2.9	2			1.0000E-04
90	11.350	Endrin	0.0914	0.0053%	753454	436749	1.7	2	9	.2879	1.2132E-07
91	11.420		4.5953	0.2688%	45953	15911	2.9	2	BMG		1.0000E-04
92	11.490		6.5332	0.3822%	65332	23641	2.8	2			1.0000E-04
93	11.555		2.3227	0.1359%	23227	7735	3.0	2			1.0000E-04
94	11.615	4,4'-DDD	0.0083	0.0005%	61869	23389	2.6	2	9	0	1.3477E-07
95	11.705		27.8638	1.6300%	278638	151222	1.8	2			1.0000E-04
96	11.795		2.7647	0.1617%	27647	10601	2.6	2			1.0000E-04
97	11.840		5.2888	0.3094%	52888	25054	2.1	2			1.0000E-04
98	11.935		44.7433	2.6174%	447433	168315	2.7	2			1.0000E-04
99	12.020		28.7863	1.6840%	287863	142638	2.0	2			1.0000E-04
100	12.100	4,4'-DDT	0.1157	0.0068%	710747	246249	2.9	2	9	-.2947	1.6277E-07
101	12.180		47.8173	2.7972%	478173	246690	1.9	2			1.0000E-04
102	12.295	Endrin Aldehyde	0.0458	0.0027%	262529	127981	2.1	2	9	.3220	1.7436E-07
103	12.360		5.6620	0.3312%	56620	12849	4.4	2			1.0000E-04
104	12.480	Endo. sulfate	0.0027	0.0002%	17119	6886	2.5	2	9		1.5764E-07
105	12.530		8.8852	0.5198%	88852	43989	2.0	2		1516	1.0000E-04
106	12.620		6.2836	0.3676%	62836	19485	3.2	2			1.0000E-04
107	12.675		8.9610	0.5242%	89610	24851	3.6	2			1.0000E-04
108	12.750		5.0720	0.2426%	50720	25010	2.0	2			1.0000E-04

109	12.815	AR1260-3	32.3810	1.9035%	323810	176358	1.8	2			1.0000E-04
110	12.895		13.6235	0.7970%	136235	46084	3.0	2			1.0000E-04
111	12.960		25.5822	1.4965%	255822	107193	2.4	2			1.0000E-04
112	13.055	AR1260-4	91.7346	5.3663%	917346	494159	1.9	3			1.0000E-04
113	13.165		2.5670	0.1502%	25670	11775	2.2	4			1.0000E-04
114	13.195		5.0351	0.2945%	50351	11784	4.3	2			1.0000E-04
115	13.330		1.2453	0.0729%	12453	4860	2.6	2			1.0000E-04
116	13.400		3.6582	0.2140%	36582	9573	3.8	2			1.0000E-04
117	13.455		1.2685	0.0742%	12685	5125	2.5	2			1.0000E-04
118	13.535		5.3979	0.3158%	53979	18512	2.9	2			1.0000E-04
119	13.580		1.7666	0.1033%	17666	8233	2.1	2			1.0000E-04
120	13.625		3.1766	0.1858%	31766	10274	3.1	2			1.0000E-04
121	13.715	Methoxychlor	0.0371	0.0022%	297939	119606	2.5	2	9	0	1.2466E-07
122	13.795	Endrin Ketone	0.0487	0.0029%	112058	55449	2.0	2	9	-.1261	4.3502E-07
123	13.860	AR1260-5	36.1385	2.1141%	361385	173878	2.1	3			1.0000E-04
124	14.020		5.9696	0.3492%	59696	11326	5.3	4			1.0000E-04
125	14.115		1.5393	0.0900%	15393	7552	2.0	2			1.0000E-04
126	14.175		4.5623	0.2669%	45623	8427	5.4	2			1.0000E-04
127	14.250		1.5086	0.0882%	15086	6563	2.3	2			1.0000E-04
128	14.305		16.0660	0.9398%	160660	74175	2.2	2			1.0000E-04
129	14.395		3.2118	0.1879%	32118	6904	4.7	2			1.0000E-04
130	14.505		5.3795	0.3147%	53795	11605	4.6	2			1.0000E-04
131	14.605		8.2014	0.4798%	82014	34497	2.4	2			1.0000E-04
132	14.665		18.5528	1.0853%	185528	80401	2.3	3			1.0000E-04
133	14.795		2.6941	0.1576%	26941	6018	4.5	4			1.0000E-04
134	14.895		3.3823	0.1979%	33823	6922	4.9	2			1.0000E-04
135	14.930		1.4117	0.0826%	14117	6996	2.0	2			1.0000E-04
136	14.980		5.0764	0.2970%	50764	13417	3.8	2			1.0000E-04
137	15.085		1.8894	0.1105%	18894	5154	3.7	2			1.0000E-04
138	15.155		3.5736	0.2090%	35736	6308	5.7	2			1.0000E-04
139	15.310		62.9311	3.6814%	629311	296144	2.1	3			1.0000E-04
140	15.480		1.4703	0.0860%	14703	4203	3.5	4			1.0000E-04
141	15.550		2.0035	0.1172%	20035	4286	4.7	2			1.0000E-04
142	15.615		1.9949	0.1167%	19949	4254	4.7	2			1.0000E-04
143	15.725		1.1063	0.0647%	11063	1980	5.6	2			1.0000E-04
144	15.950	DCB	0.0963	0.0056%	923894	381898	2.4	2	9	0	1.0420E-07
145	16.140		1.5475	0.0905%	15475	2430	6.4	2			1.0000E-04
146	16.280		0.5136	0.0300%	5136	1389	3.7	2			1.0000E-04
147	16.365		0.9785	0.0572%	9785	1643	6.0	2			1.0000E-04

TOTAL AMOUNT = 1709.4450

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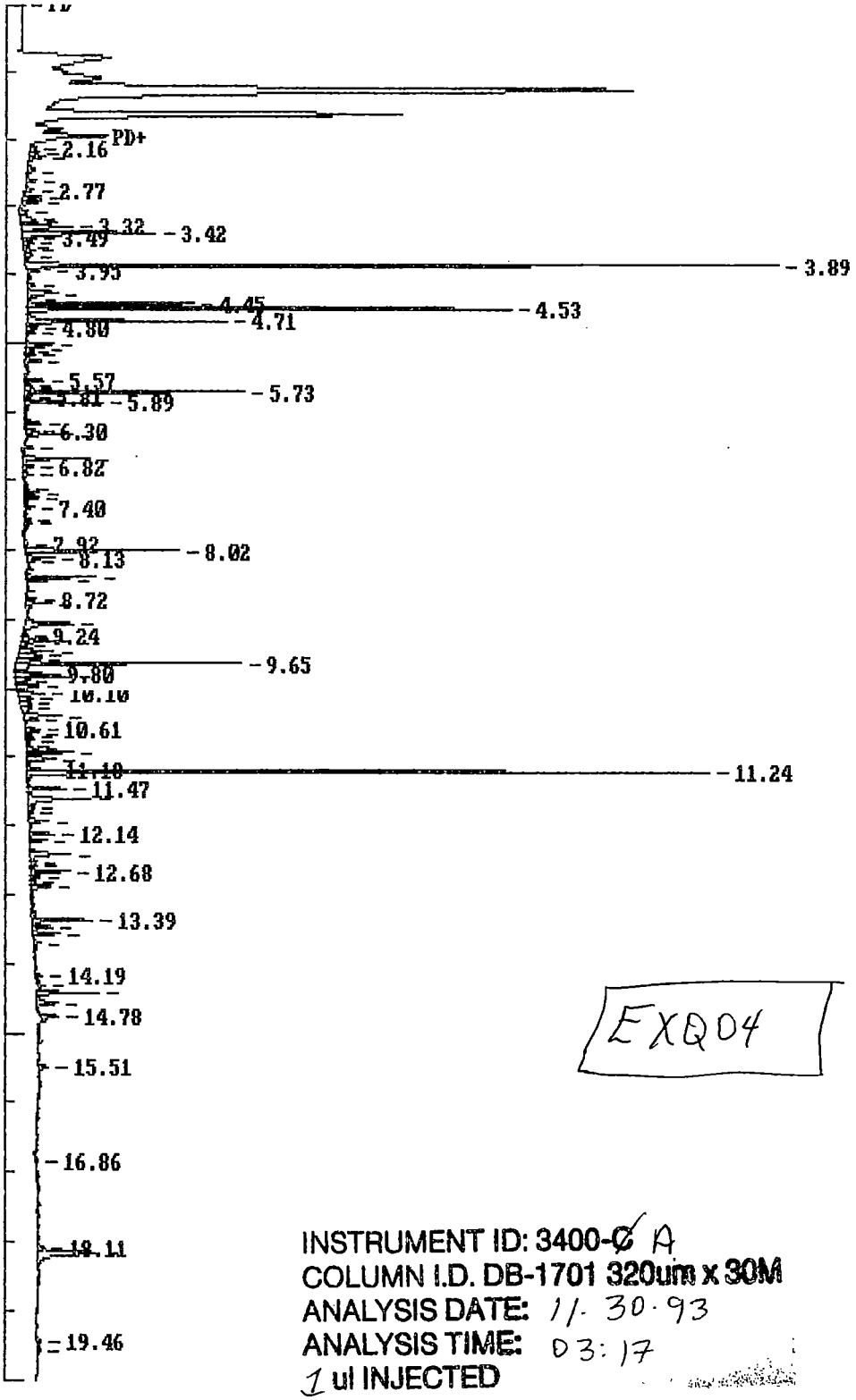
P3
11.30.93
BMB

Data File = D:076A92.PTS Printed on 11-30-1993 at 12:04:11
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 180 millivolts



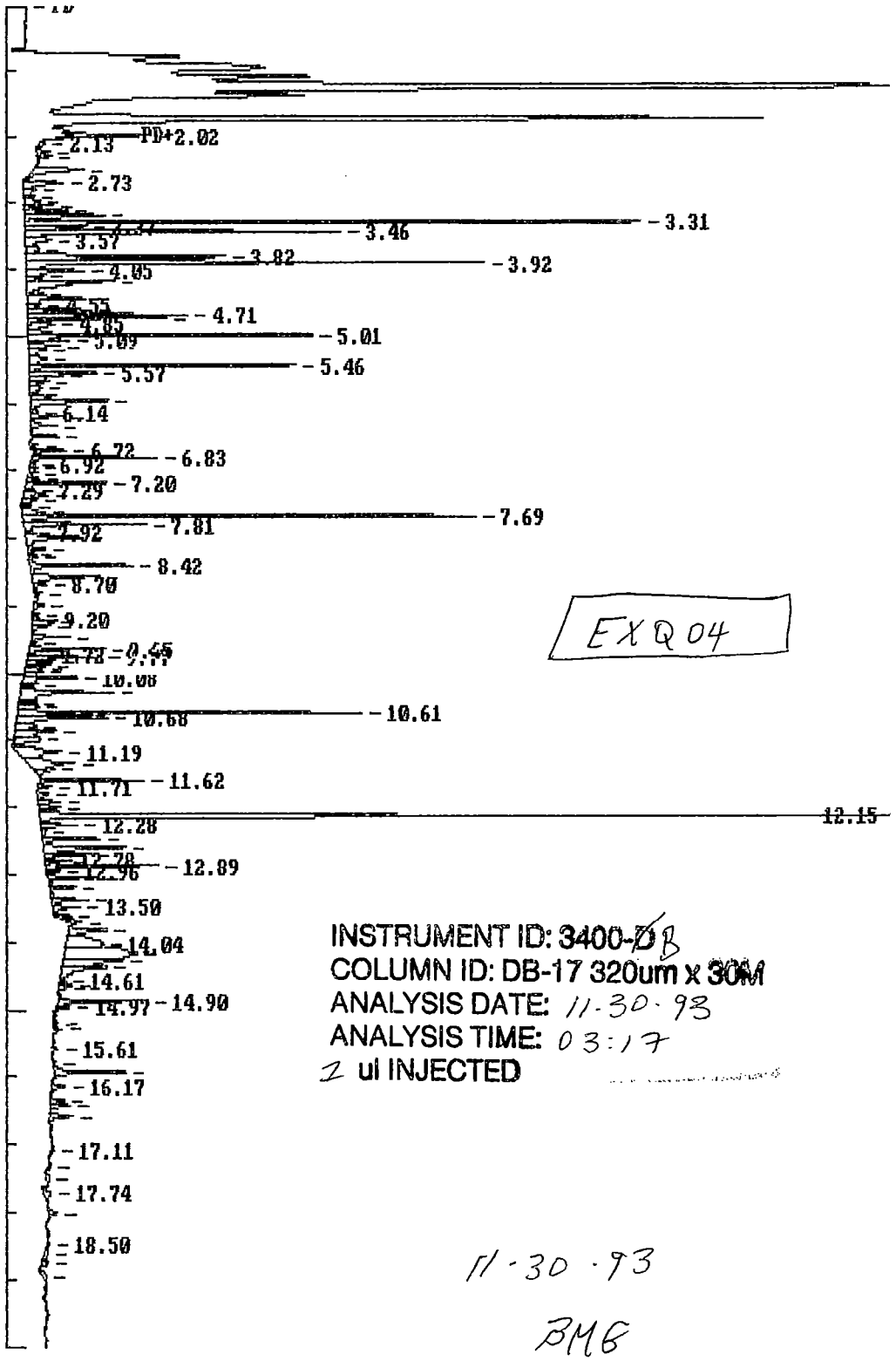
EXQ04

INSTRUMENT ID: 3400-~~C~~ A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11. 30. 93
ANALYSIS TIME: 03: 17
1 ul INJECTED

1519

11.30.93 BMG

Data File = 0:076B92.PTS Printed on 11-30-1993 at 13:25:11
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 200 millivolts



EXQ04

INSTRUMENT ID: 3400-~~D~~B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-30-93
ANALYSIS TIME: 03:17
1 ul INJECTED

11-30-93
BMG

++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-30-1993 11:36:04 Version 5.1 **********

* Sample Name: EX004/23946,,; Data File: 0:076A92 *

* Date: 11-30-1993 03:17:42 Method: 0:076AB 11-30-1993 10:37:36 # 862 *

* Interface: 1 Cycle#: 92 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.300		1.7129	1.2535%	17129	5807	2.9	2			1.0000E-04
3	4.450	TCX	1.7039	1.2469%	58120	32646	1.8	2	3	0	2.9318E-05
4	4.525		16.5250	12.0926%	165250	96215	1.7	2			1.0000E-04
5	4.710		7.4037	5.4178%	74037	39294	1.9	2			1.0000E-04
6	4.795		0.4988	0.3650%	4988	2062	2.4	2			1.0000E-04
8	5.040		1.3888	1.0163%	13888	5527	2.5	2			1.0000E-04
9	5.100		0.6886	0.5039%	6886	3537	1.9	2			1.0000E-04
11	5.190		0.5515	0.4036%	5516	2036	2.7	2			1.0000E-04
12	5.290		0.9548	0.6987%	9548	3185	3.0	2			1.0000E-04
15	5.565		0.6404	0.4686%	6404	3741	1.7	2			1.0000E-04
18	5.730		7.1322	5.2192%	71322	43125	1.7	2			1.0000E-04
20	5.890		2.4954	1.8261%	24954	15311	1.6	2	11.30.93		1.0000E-04
24	6.190		0.5620	0.4112%	5620	3194	1.8	2			1.0000E-04
25	6.295		0.3713	0.2717%	3713	1895	2.0	2	BMG		1.0000E-04
26	6.345		1.6642	1.2178%	16642	9251	1.8	2			1.0000E-04
29	6.700	gamma-BHC <CRQL	1.8877	1.3813%	24434	12912	1.9	2	3	-.3700	7.7254E-05
30	6.815		0.5593	0.4093%	5593	1882	3.0	2			1.0000E-04
31	6.930		0.5195	0.3802%	5195	1897	2.7	2			1.0000E-04
34	7.190		0.5444	0.3984%	5444	2959	1.8	2			1.0000E-04
35	7.265		0.5704	0.4174%	5704	2718	2.1	2			1.0000E-04
44	8.015	beta-BHC <CRQL	3.2125	2.3509%	53351	30160	1.8	2	3	-.4583	6.0215E-05
45	8.125		1.1235	0.8222%	11235	5341	2.1	2			1.0000E-04
49	8.400		2.3660	1.7314%	23660	13834	1.7	2			1.0000E-04
50	8.435	delta-BHC Conf.	1.4402	1.0539%	16310	8586	1.9	2	3	.1653	8.8302E-05
54	8.715		0.4003	0.2930%	4003	2158	1.9	2			1.0000E-04
55	8.780	Hept. epoxide <CRQL	0.8892	0.6507%	10155	5132	2.0	2	3	.2247	8.7570E-05
58	9.075		3.0480	2.2304%	30480	9656	3.2	2			1.0000E-04
61	9.335	g. Chlordane <CRQL	1.4533	1.0635%	18432	9767	1.9	2	3	.1710	7.8847E-05
63	9.475	a. Chlordane <CRQL	1.2543	0.9179%	15841	6994	2.3	2	3	.1718	7.9185E-05
64	9.535		1.1340	0.8299%	11340	4808	2.4	2			1.0000E-04
65	9.585		1.5507	1.1348%	15507	4896	3.2	2			1.0000E-04
66	9.650	4,4'-DDE Conf+	9.6780	7.0821%	87663	44561	2.0	2	3	.1209	1.1040E-04
67	9.800		0.9740	0.7127%	9740	5508	1.8	2			1.0000E-04
68	9.850	Dieldrin confirm+	3.4593	2.5314%	26768	11311	2.4	2	3	.1230	1.2923E-04
69	9.920		0.6679	0.4887%	6679	2336	2.9	2			1.0000E-04
70	9.980		1.5055	1.1017%	15055	4436	3.4	2			1.0000E-04
71	10.095		1.5503	1.1345%	15503	5041	3.1	2			1.0000E-04
72	10.160	Endrin <CRQL	0.7135	0.5221%	7057	2673	2.6	2	3	-.1683	1.0109E-04
73	10.230		0.8016	0.5866%	8016	1997	4.0	2			1.0000E-04
74	10.290		0.7641	0.5591%	7641	1839	4.2	2			1.0000E-04
75	10.410		1.7705	1.2956%	17705	7552	2.3	2			1.0000E-04
76	10.475		0.5575	0.4079%	5575	2660	2.1	2			1.0000E-04

1521

78	10.655		0.4911	0.3594%	4911	2515	2.0	2			1.0000E-04
82	10.890		0.4619	0.3380%	4619	2266	2.0	2			1.0000E-04
83	10.940	4,4'-DDD <CRQL	1.6001	1.1709%	16535	9211	1.8	2	3	0	9.6772E-05
84	11.035		1.7717	1.2965%	17717	5790	3.1	2			1.0000E-04
86	11.180		0.4879	0.3571%	4879	2500	2.0	2			1.0000E-04
87	11.235	4,4'-DDT Conf +	19.6336	14.3674%	228384	135831	1.7	3	3	0	8.5967E-05
90	11.470		1.4421	1.0553%	14421	7616	1.9	2			1.0000E-04
92	11.625	Endrin Aldehyde <CRQL	3.0966	2.2660%	33392	12571	2.7	2	3	0	9.2734E-05
94	11.815		0.3657	0.2676%	3657	900	4.1	2			1.0000E-04
95	11.945		0.9394	0.6874%	9394	4072	2.3	2			1.0000E-04
97	12.135	Endo. sulfate <CRQL	1.0142	0.7421%	9087	4886	1.9	2	3	-.1455	1.1160E-04
98	12.225		0.7315	0.5353%	7315	3470	2.1	2			1.0000E-04
101	12.425		2.1622	1.5823%	21622	8127	2.7	2			1.0000E-04
102	12.545		0.3762	0.2753%	3762	1343	2.8	2			1.0000E-04
103	12.590		0.3579	0.2619%	3579	1455	2.5	2			1.0000E-04
104	12.675		2.0607	1.5080%	20607	7856	2.6	2			1.0000E-04
105	12.755	Endrin Ketone <CRQL	0.1863	0.1363%	4163	2030	2.1	2	3	-.1276	4.4753E-05
107	12.895		1.3274	0.9713%	13274	4004	3.3	2			1.0000E-04
112	13.390		2.5199	1.8440%	25199	11829	2.1	2			1.0000E-04
113	13.485		0.8307	0.6079%	8307	3947	2.1	2			1.0000E-04
114	13.580		1.1167	0.8172%	11167	5359	2.1	2			1.0000E-04
115	13.710		0.3800	0.2781%	3800	1396	2.7	2			1.0000E-04
122	14.435	DCB	2.1145	1.5473%	21417	12253	1.7	1	3	0	9.8726E-05
123	14.585		1.3529	0.9900%	13529	4062	3.3	1			1.0000E-04
124	14.775		0.6922	0.5065%	6922	3291	2.1	1			1.0000E-04

TOTAL AMOUNT = 136.6539

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P2

11-30-93

BMG

EXTERNAL STANDARD TABLE

********** 11-30-1993 12:47:44 Version 5.1 **********

* Sample Name: EXQ04/23946,,; Data File: 0:076B92 *
* Date: 11-30-1993 03:17:49 Method: 0:076BB 11-30-1993 11:14:42 # 886 *
* Interface: 2 Cycle#: 92 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.635		2.5075	1.1884%	25075	12820	2.0	2			1.0000E-04
3	4.705		6.1511	2.9154%	61511	34766	1.8	2			1.0000E-04
4	4.755		5.8401	2.7679%	58401	30090	1.9	2			1.0000E-04
5	4.845		1.8493	0.8765%	18493	4586	4.0	2			1.0000E-04
6	4.960		0.9147	0.4335%	9147	3934	2.3	2			1.0000E-04
7	5.010	TCX	0.0163	0.0077%	120407	63302	1.9	2	7	0	1.3549E-07
8	5.085		1.7655	0.8368%	17655	7974	2.2	2			1.0000E-04
9	5.165		1.4073	0.6670%	14073	6092	2.3	2			1.0000E-04
10	5.220		0.9904	0.4694%	9904	2916	3.4	2			1.0000E-04
11	5.360		1.3281	0.6295%	13281	3022	4.4	2			1.0000E-04
12	5.460		10.4672	4.9610%	104672	59574	1.8	2			1.0000E-04
13	5.565		3.4912	1.6547%	34912	14430	2.4	2			1.0000E-04
14	5.610		1.8030	0.8545%	18030	6858	2.6	2			1.0000E-04
15	5.690		1.1551	0.5475%	11551	3673	3.1	2			1.0000E-04
16	5.785		1.0542	0.4996%	10542	2137	4.9	2			1.0000E-04
18	5.930		1.1380	0.5394%	11380	4087	2.8	2			1.0000E-04
19	5.980		5.4964	2.6050%	54964	17235	3.2	3			1.0000E-04
20	6.140		0.3950	0.1872%	3950	1370	2.9	4			1.0000E-04
21	6.210		1.5481	0.7337%	15481	7502	2.1	2			1.0000E-04
22	6.345		1.4267	0.6762%	14267	5842	2.4	2			1.0000E-04
24	6.505		0.9447	0.4477%	9447	6114	1.5	1			1.0000E-04
26	6.715		0.9915	0.4699%	9915	6621	1.5	1			1.0000E-04
27	6.825		4.7344	2.2439%	47344	28526	1.7	3			1.0000E-04
29	6.965		0.5628	0.2668%	5628	1797	3.1	2			1.0000E-04
30	7.040		0.6042	0.2864%	6042	2091	2.9	2			1.0000E-04
31	7.135		0.8353	0.3959%	8353	2941	2.8	2			1.0000E-04
32	7.195	gamma-BHC	0.0034	0.0016%	37071	18363	2.0	2	7	.1300	9.1880E-08
33	7.290		0.8433	0.3997%	8433	2269	3.7	2			1.0000E-04
34	7.375	beta-BHC	0.0054	0.0026%	19462	5727	3.4	2	7	.1317	2.7691E-07
35	7.440		1.4109	0.6687%	14109	3565	4.0	2			1.0000E-04
36	7.540		0.3835	0.1817%	3835	2360	1.6	2			1.0000E-04
37	7.625		1.8136	0.8596%	18136	5434	3.3	2			1.0000E-04
38	7.685		19.4840	9.2345%	194840	103261	1.9	2			1.0000E-04
39	7.805	Heptachlor	0.0069	0.0033%	61691	28006	2.2	3	7	.2638	1.1145E-07
40	7.915		0.3723	0.1764%	3723	1546	2.4	4			1.0000E-04
41	8.000		4.5762	2.1689%	45762	13127	3.5	2			1.0000E-04
42	8.175		1.1260	0.5337%	11260	4155	2.7	2			1.0000E-04
44	8.285		0.7632	0.3617%	7632	2062	3.7	2			1.0000E-04
45	8.415	Aldrin	0.0045	0.0021%	54765	23453	2.3	2	7	.4981	8.1798E-08
46	8.575		5.1814	2.4558%	51814	15444	3.4	2			1.0000E-04
47	8.700		0.9164	0.4344%	9164	3270	2.8	2			1.0000E-04

1523

53	9.155		0.4130	0.1537%	4130	1694	2.4	2			1.0000E-04
54	9.250		1.3434	0.6367%	13434	4676	2.9	2			1.0000E-04
55	9.310		1.1827	0.5605%	11827	4077	2.9	2			1.0000E-04
56	9.475	Hept. epoxide	0.0018	0.0008%	16838	8536	2.0	2	7	.1467	1.0548E-07
58	9.650		3.6594	1.7344%	36594	17090	2.1	2			1.0000E-04
59	9.715		0.4191	0.1987%	4191	1669	2.5	2			1.0000E-04
60	9.775	g. Chlordane	0.0032	0.0015%	34246	16740	2.0	2	7	.1483	9.2400E-08
61	9.830		1.8256	0.8653%	18256	6517	2.8	2			1.0000E-04
62	9.895		1.4402	0.6826%	14402	5544	2.6	2			1.0000E-04
63	9.935		1.0258	0.4862%	10258	4430	2.3	2			1.0000E-04
64	9.990		1.5732	0.7456%	15732	4289	3.7	2			1.0000E-04
65	10.080	a. Chlordane	0.0034	0.0016%	37100	12397	3.0	2	7	.1003	9.1302E-08
66	10.170		0.8904	0.4220%	8904	3644	2.4	2			1.0000E-04
67	10.300		7.1303	3.3795%	71303	21434	3.3	2			1.0000E-04
68	10.455		1.1725	0.5557%	11725	4049	2.9	2			1.0000E-04
69	10.500		1.8986	0.8999%	18986	4727	4.0	2			1.0000E-04
70	10.610	4,4'-DDE	0.0171	0.0081%	153522	78353	2.0	2	7	.1052	1.1134E-07
71	10.675	Dieldrin	0.0063	0.0030%	63652	20735	3.1	2	7	.1526	9.9731E-08
72	10.820		2.4397	1.1563%	24397	4949	4.9	2			1.0000E-04
73	10.875		3.5194	1.6681%	35194	9516	3.7	2			1.0000E-04
74	11.000		3.8498	1.8246%	38498	6124	6.3	2			1.0000E-04
75	11.185		5.6932	2.6983%	56932	9723	5.9	2			1.0000E-04
76	11.350	Endrin	0.0062	0.0029%	51284	10410	4.9	2	7	.2879	1.2132E-07
77	11.450		1.6309	0.7730%	16309	4336	3.8	2			1.0000E-04
78	11.615	4,4'-DDD	0.0059	0.0028%	43786	23922	1.8	2	7	0	1.3477E-07
79	11.705		0.6906	0.3273%	6906	3195	2.2	2			1.0000E-04
80	11.820		1.0057	0.4767%	10057	2552	3.9	2			1.0000E-04
81	11.935		1.3878	0.6577%	13878	5178	2.7	2			1.0000E-04
82	12.020		1.4365	0.6808%	14365	4954	2.9	2			1.0000E-04
83	12.145	4,4'-DDT	0.0771	0.0366%	473942	257188	1.8	2	7	0	1.6277E-07
84	12.280	Endrin Aldehyde	0.0036	0.0017%	20930	8145	2.6	2	7	.1996	1.7436E-07
85	12.360		0.4048	0.1919%	4048	985	4.1	2			1.0000E-04
86	12.480	Endo. sulfate	0.0046	0.0022%	29293	13050	2.2	2	7	0	1.5764E-07
87	12.615		6.2257	2.9507%	62257	18725	3.3	2			1.0000E-04
88	12.715		2.5585	1.2126%	25585	10488	2.4	2			1.0000E-04
89	12.775		0.4264	0.2021%	4264	2176	2.0	2			1.0000E-04
90	12.810		1.0828	0.5132%	10828	4732	2.3	2			1.0000E-04
91	12.885		5.3788	2.5493%	53788	25582	2.1	2			1.0000E-04
92	12.960		0.6990	0.3313%	6990	3000	2.3	2			1.0000E-04
93	13.055		2.1049	0.9976%	21049	11204	1.9	1			1.0000E-04
95	13.205		1.1854	0.5618%	11854	5752	2.1	2			1.0000E-04
97	13.395		1.9681	0.9328%	19681	8344	2.4	2			1.0000E-04
98	13.500		1.9560	0.9271%	19560	6234	3.1	2			1.0000E-04
99	13.630		0.5222	0.2475%	5222	2775	1.9	2			1.0000E-04
100	13.710	Methoxychlor	0.0007	0.0003%	5251	2435	2.2	2	7	0	1.2466E-07
101	13.830	Endrin Ketone	0.0131	0.0062%	30187	8853	3.4	2	7	.1272	4.3502E-07
102	14.040		6.1733	2.9259%	61733	8493	7.3	2			1.0000E-04
103	14.180		16.6941	7.9123%	166941	16689	10.0	2			1.0000E-04
104	14.275		6.3471	3.0082%	63471	13785	4.6	2			1.0000E-04
105	14.390		5.4463	2.5813%	54463	10241	5.3	3			1.0000E-04
107	14.665		0.6758	0.3203%	6758	3035	2.2	2			1.0000E-04
110	14.895		4.3858	2.0787%	43858	20467	2.1	2			1.0000E-04
111	14.970		0.9936	0.4709%	9936	3314	3.0	2			1.0000E-04
118	15.955	DCB	0.0048	0.0023%	45781	16226	2.8	2	7	.1054	1.0420E-07
119	16.165		0.9665	0.4581%	9665	3016	3.2	1			1.0000E-04
121	16.365		0.9155	0.4339%	9155	2970	3.1	2			1.0000E-04
122	16.445		1.1209	0.5313%	11209	4225	2.7	2			1.0000E-04

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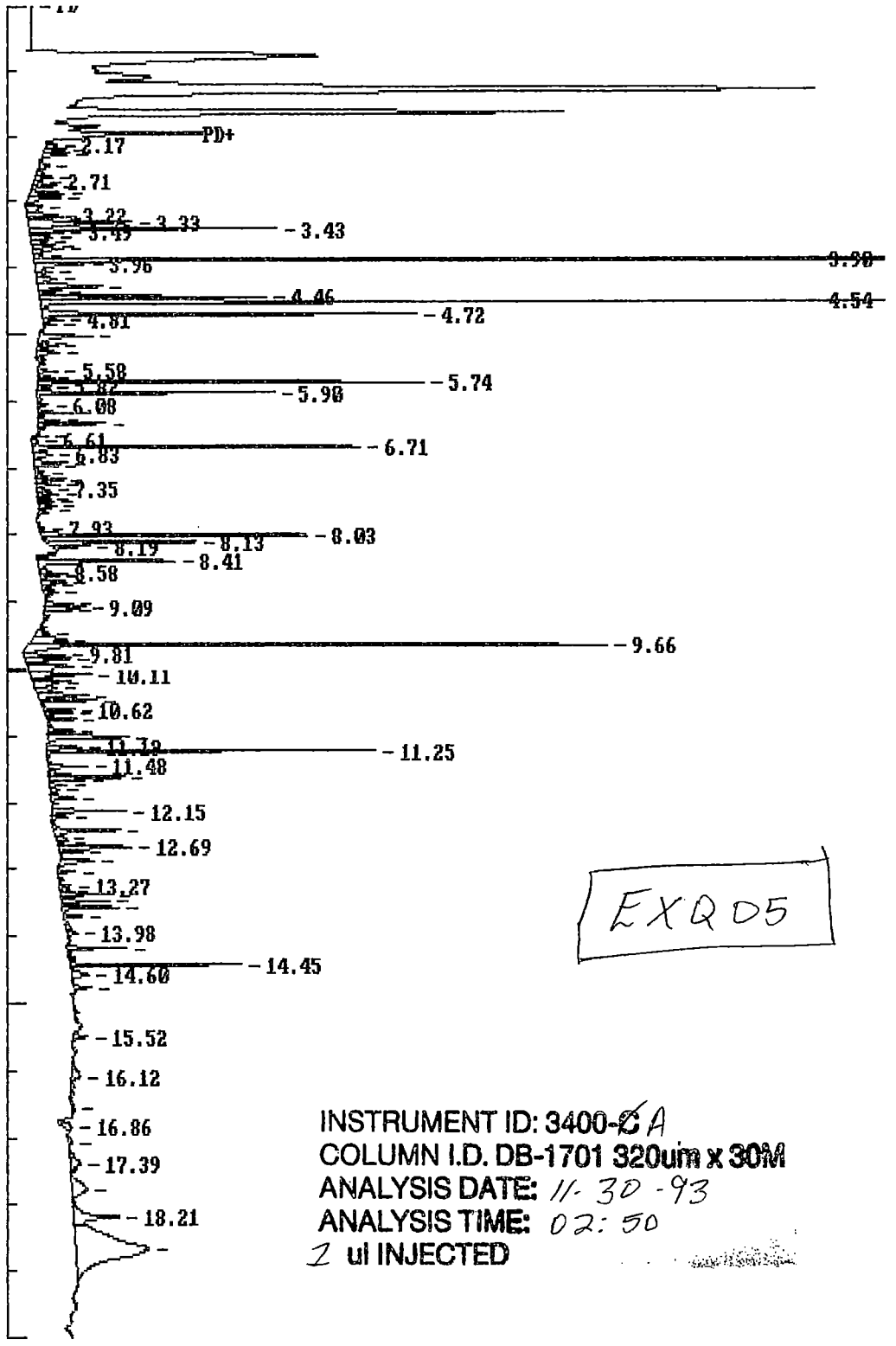
TOTAL AMOUNT = 210.9905

ART 12/7/93

ART 12/7/93

1527

Data File = 0:076A91.PTS Printed on 11-30-1993 at 12:00:48
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 100 millivolts

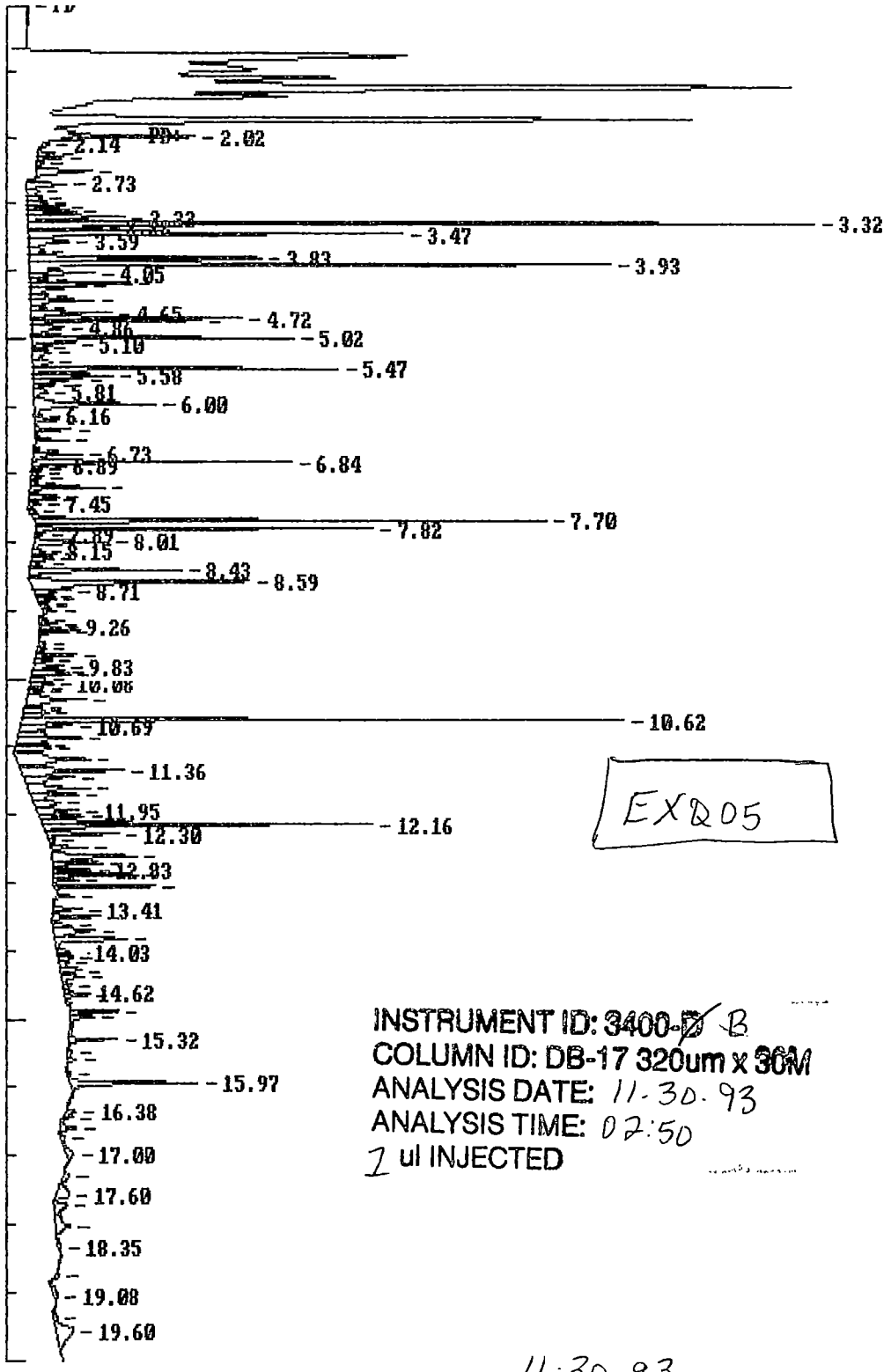


EXQ05

INSTRUMENT ID: 3400-~~C~~A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-30-93
ANALYSIS TIME: 02:50
1 ul INJECTED

11-30-93
BMG

Data File = 0:076B91.PTS Printed on 11-30-1993 at 13:24:02
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 180 millivolts



EXQ05

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-30-93
ANALYSIS TIME: 02:50
1 ul INJECTED

11-30-93

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EXTERNAL STANDARD TABLE

```
******************** 11-30-1993 11:33:42 Version 5.1 **********************
* Sample Name: EX005/23947,,;                          Data File: 0:076A91      *
* Date: 11-30-1993 02:50:38 Method: 0:076AB  11-30-1993 10:37:36  #  862  *
* Interface: 1   Cycle#:  91   Operator DB  Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250              *
*************************************************************************
* Instrument Type: 3400-A                  Column Type: DB-1701 .32mm x 30M  *
*              Solvent Description: carrier gas = H2; make-up = N2          *
* Conditions:  110H.5to140@20/minto280@11/minH9 INJ=210 DET=300             *
*            Detector 0: ECD Range1            Detector 1: ECD Range1       *
* Misc. Information: 11/22/93,P,;                                           *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    20.00
Area reject:      3500                     One sample per    0.300 sec.
Amount injected:        1.00               Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.310		1.8559	1.3351%	18559	6722	2.8	2			1.0000E-04
2	4.375		0.3835	0.2758%	3835	2172	1.8	2			1.0000E-04
3	4.460	TCX	1.3605	0.9787%	46407	25613	1.8	2	3	0	2.9318E-05
4	4.535		18.2021	13.0935%	182021	108300	1.7	2			1.0000E-04
5	4.720		8.1281	5.8469%	81281	42729	1.9	2			1.0000E-04
6	4.805		0.4369	0.3143%	4369	2156	2.0	2			1.0000E-04
8	5.050		1.7985	1.2937%	17985	6065	3.0	2			1.0000E-04
10	5.195		0.6102	0.4389%	6102	2255	2.7	2			1.0000E-04
11	5.300		0.8603	0.6189%	8603	2666	3.2	2			1.0000E-04
14	5.575		0.4616	0.3320%	4616	2158	2.1	2			1.0000E-04
16	5.685		0.4137	0.2976%	4137	1921	2.2	2			1.0000E-04
17	5.740		7.1714	5.1587%	71714	44146	1.6	2			1.0000E-04
19	5.895		4.3555	3.1331%	43555	27064	1.6	2			1.0000E-04
23	6.200		0.7254	0.5218%	7254	3959	1.8	2			1.0000E-04
24	6.305		0.4860	0.3496%	4860	2469	2.0	2			1.0000E-04
25	6.350		1.5508	1.1156%	15508	7707	2.0	3			1.0000E-04
29	6.710	gamma-BHC <LRQL	5.1949	3.7369%	67244	37419	1.8	2	3	-.4451	7.7254E-05
30	6.825		0.7096	0.5105%	7096	2089	3.4	2			1.0000E-04
31	6.940		0.9275	0.6672%	9275	3801	2.4	2			1.0000E-04
32	6.995		0.5173	0.3721%	5173	2617	2.0	2			1.0000E-04
35	7.200		0.6422	0.4620%	6422	3166	2.0	2			1.0000E-04
36	7.275		0.6339	0.4560%	6339	2657	2.4	2			1.0000E-04
38	7.410		0.4504	0.3240%	4504	2400	1.9	2			1.0000E-04
41	7.580	Aldrin <CRQL	0.2925	0.2104%	4011	2057	1.9	2	3	0	7.2922E-05
45	8.030	beta-BHC <CRQL	3.3266	2.3930%	55245	30408	1.8	2	3	-.4956	6.0215E-05
46	8.130		3.6747	2.6433%	36747	16895	2.2	2			1.0000E-04
47	8.185		0.8188	0.5890%	8188	4146	2.0	2			1.0000E-04
50	8.410	delta-BHC Conf-	3.3657	2.4211%	38116	15702	2.4	3	3	-.3554	8.8302E-05
51	8.580		0.3806	0.2738%	3806	1155	3.3	4			1.0000E-04
52	8.620		0.4390	0.3158%	4390	2158	2.0	2			1.0000E-04
54	8.725		0.4960	0.3568%	4960	2820	1.8	2			1.0000E-04
55	8.765	Hept. epoxide <CRQL	0.3944	0.2837%	4504	1423	3.2	2	3	-.1708	8.7570E-05
58	9.050		0.5776	0.4155%	5776	3221	1.8	2	11-30-93		1.0000E-04
59	9.090		1.3222	0.9511%	13222	4632	2.9	2			1.0000E-04
60	9.140		0.5625	0.4046%	5625	3162	1.8	2	BMG		1.0000E-04
64	9.485	a. Chlordane <CRQL	0.4405	0.3168%	5562	1610	3.5	2	3	.0527	7.9185E-05
65	9.595		1.9732	1.4194%	19732	4141	4.8	2			1.0000E-04
66	9.660	4,4'-DDE Conf+	13.9815	10.0574%	126645	66486	1.9	2	3	0	1.1040E-04
67	9.810		0.9025	0.6492%	9025	4691	1.9	2			1.0000E-04
68	9.865	Dieldrin <CRQL	2.0322	1.4619%	15726	5229	3.0	2	3	.0507	1.2923E-04
69	9.930		0.6797	0.4889%	6797	2516	2.7	2			1.0000E-04
70	9.990		1.6410	1.1804%	16410	5242	3.1	2			1.0000E-04
71	10.105		2.0876	1.5017%	20876	6890	3.0	2			1.0000E-04

1531

73	10.215	Endrin < CRQL	1.1219	0.8070%	11098	3004	3.7	2	3	.1470	1.0109E-04
74	10.300		1.0018	0.7206%	10018	2482	4.0	2			1.0000E-04
75	10.410		1.7682	1.2719%	17682	5695	3.1	2			1.0000E-04
76	10.485		1.2031	0.8654%	12031	6519	1.8	2			1.0000E-04
78	10.620		0.6216	0.4472%	6216	3529	1.8	2			1.0000E-04
79	10.670		0.6538	0.4703%	6538	3201	2.0	2			1.0000E-04
81	10.770		0.5578	0.4012%	5578	3282	1.7	1			1.0000E-04
82	10.950	4,4'-DDD < CRQL	0.6771	0.4870%	6997	3102	2.3	1	3	0	9.6772E-05
83	11.040		2.9746	2.1397%	29746	9302	3.2	1			1.0000E-04
84	11.190		0.7484	0.5384%	7484	4026	1.9	2			1.0000E-04
85	11.245	4,4'-DDT Conf+	5.6719	4.0800%	65977	37565	1.8	3	3	0	8.5967E-05
88	11.480		0.8866	0.6378%	8866	4539	2.0	2			1.0000E-04
90	11.590		0.4456	0.3205%	4456	2520	1.8	2			1.0000E-04
91	11.635	Endrin Aldehyde < CRQL	1.6512	1.1878%	17806	8652	2.1	2	3	-.1287	9.2734E-05
92	11.675		0.8297	0.5969%	8297	4089	2.0	2			1.0000E-04
93	11.760		0.4185	0.3011%	4185	1968	2.1	2			1.0000E-04
95	11.960		0.8453	0.6081%	8453	2896	2.9	2			1.0000E-04
97	12.145	Endo. sulfate < CRQL	1.8097	1.3018%	16215	8462	1.9	2	3	-.2873	1.1160E-04
98	12.235		0.4469	0.3214%	4469	1895	2.4	2			1.0000E-04
101	12.435		1.9719	1.4185%	19719	7589	2.6	2			1.0000E-04
102	12.555		0.4094	0.2945%	4094	1125	3.6	2			1.0000E-04
104	12.690		2.2621	1.6272%	22621	8354	2.7	2			1.0000E-04
105	12.765	Endrin Ketone < CRQL	0.2046	0.1472%	4573	2625	1.7	2	3	-.2734	4.4753E-05
107	12.895		1.2277	0.8831%	12277	3917	3.1	1			1.0000E-04
108	13.050		0.4193	0.3016%	4193	2020	2.1	1			1.0000E-04
112	13.400		1.2805	0.9211%	12805	5788	2.2	2			1.0000E-04
113	13.495		1.0733	0.7721%	10733	5447	2.0	2			1.0000E-04
114	13.590		1.4900	1.0718%	14900	6505	2.3	2			1.0000E-04
115	13.720		0.4548	0.3271%	4548	2079	2.2	2			1.0000E-04
121	14.195		1.2435	0.8945%	12435	6775	1.8	2			1.0000E-04
124	14.445	DCB	3.3293	2.3949%	33723	19523	1.7	2	3	-.1037	9.8726E-05
125	14.600		0.8815	0.6341%	8815	1941	4.5	2			1.0000E-04
126	14.785		0.5310	0.3820%	5310	1972	2.7	1			1.0000E-04

TOTAL AMOUNT = 139.0165

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EXTERNAL STANDARD TABLE

********** 11-30-1993 12:44:33 Version 5.1 **********

* Sample Name: EXQ05/23947,,; Data File: O:076B91 *
* Date: 11-30-1993 02:50:45 Method: O:076BB 11-30-1993 11:14:42 # 886 *
* Interface: 2 Cycle#: 91 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.645		2.8409	1.2325%	28409	14722	1.9	2			1.0000E-04
3	4.715		7.2433	3.1424%	72433	40815	1.8	2			1.0000E-04
4	4.765		6.3218	2.7427%	63218	32741	1.9	2			1.0000E-04
5	4.860		2.1510	0.9332%	21510	5158	4.2	2			1.0000E-04
6	4.965		0.9888	0.4290%	9888	4426	2.2	2			1.0000E-04
7	5.015	TCX	0.0137	0.0060%	101399	51591	2.0	3	7	0	1.3549E-07
8	5.095		1.3720	0.5952%	13720	6876	2.0	4			1.0000E-04
9	5.155		0.3996	0.1733%	3996	1786	2.2	2			1.0000E-04
10	5.230		1.0401	0.4513%	10401	2784	3.7	2			1.0000E-04
11	5.370		1.2317	0.5344%	12317	2999	4.1	2			1.0000E-04
12	5.470		10.7711	4.6730%	107711	60790	1.8	2			1.0000E-04
13	5.575		3.6840	1.5983%	36840	15288	2.4	2			1.0000E-04
14	5.620		2.1277	0.9231%	21277	9251	2.3	2			1.0000E-04
15	5.700		1.1341	0.4920%	11341	3798	3.0	2			1.0000E-04
16	5.810		1.0344	0.4488%	10344	2221	4.7	2			1.0000E-04
17	5.995		7.8914	3.4236%	78914	24235	3.3	2			1.0000E-04
19	6.220		1.1599	0.5032%	11599	4756	2.4	2			1.0000E-04
20	6.355		1.4863	0.6448%	14863	7225	2.1	2			1.0000E-04
22	6.515		1.0723	0.4652%	10723	6786	1.6	1			1.0000E-04
24	6.725		2.4508	1.0632%	24508	9915	2.5	2			1.0000E-04
25	6.835		8.4762	3.6773%	84762	52276	1.6	2			1.0000E-04
26	6.890		0.5874	0.2548%	5874	3215	1.8	2			1.0000E-04
27	6.930		0.5548	0.2407%	5548	2136	2.6	2			1.0000E-04
28	6.975		0.6368	0.2763%	6368	2030	3.1	2			1.0000E-04
29	7.050		0.6657	0.2888%	6657	2592	2.6	2			1.0000E-04
30	7.120		0.4415	0.1915%	4415	1389	3.2	2			1.0000E-04
31	7.205	gamma-BHC	0.0028	0.0012%	30246	14950	2.0	2	7	.1692	9.1880E-08
32	7.300		0.5570	0.2416%	5570	1800	3.1	2			1.0000E-04
33	7.345		1.2820	0.5562%	12820	6122	2.1	2			1.0000E-04
34	7.385	beta-BHC	0.0033	0.0014%	11904	5380	2.2	2	7	.1675	2.7691E-07
35	7.450		0.7544	0.3273%	7544	2417	3.1	2			1.0000E-04
37	7.635		1.4343	0.6222%	14343	6538	2.2	2			1.0000E-04
38	7.695		18.4222	7.9923%	184222	103589	1.8	2			1.0000E-04
39	7.815	Heptachlor	0.0131	0.0057%	117260	67870	1.7	2	7	.2921	1.1145E-07
40	7.885		0.4235	0.1838%	4235	1776	2.4	2			1.0000E-04
41	8.010		4.0555	1.7595%	40555	15145	2.7	2			1.0000E-04
42	8.145		0.4409	0.1913%	4409	2151	2.0	2			1.0000E-04
43	8.185		0.9496	0.4120%	9496	5012	1.9	2			1.0000E-04
44	8.240		1.0032	0.4352%	10032	4457	2.3	2			1.0000E-04
45	8.295		0.9319	0.4043%	9319	3034	3.1	2			1.0000E-04
46	8.360	Aldrin	0.0005	0.0002%	6492	2502	2.6	2	7	-.2582	8.1798E-08
47	8.425		7.4147	3.2168%	74147	30638	2.4	2			1.0000E-04

1533

48	8.585		13.9288	8.9058%	139288	44140	3.6	2			1.0000E-04
49	8.710		2.6170	1.1354%	26170	7513	3.5	2			1.0000E-04
50	8.790		0.8688	0.3769%	8688	3386	2.6	2			1.0000E-04
51	8.835		0.9044	0.3924%	9044	3728	2.4	2			1.0000E-04
52	8.890		0.4616	0.2003%	4616	1932	2.4	2			1.0000E-04
53	8.935		0.4611	0.2000%	4611	1639	2.8	2			1.0000E-04
54	9.015		0.4204	0.1824%	4204	2548	1.7	1			1.0000E-04
56	9.200		0.6623	0.2874%	6623	3623	1.8	2			1.0000E-04
57	9.260		0.6444	0.2796%	6444	4119	1.6	2			1.0000E-04
58	9.290		0.8737	0.3791%	8737	4456	2.0	2			1.0000E-04
59	9.320		1.5087	0.6545%	15087	5820	2.6	2			1.0000E-04
60	9.485	Hept. epoxide	0.0005	0.0002%	4598	1458	3.2	2	7	.1524	1.0548E-07
61	9.565		0.3836	0.1664%	3836	1786	2.1	2			1.0000E-04
63	9.660		1.8236	0.7912%	18236	8295	2.2	2			1.0000E-04
64	9.735	g. Chlordane	0.0008	0.0004%	9054	3474	2.6	2	7	-.3608	9.2400E-08
65	9.825		2.2888	0.9930%	22888	6086	3.8	2			1.0000E-04
66	9.905		1.5566	0.6753%	15566	6616	2.4	2			1.0000E-04
67	9.945		1.8778	0.8147%	18778	7777	2.4	2			1.0000E-04
68	10.005		1.1740	0.5093%	11740	2996	3.9	2			1.0000E-04
69	10.080	a. Chlordane	0.0013	0.0006%	14087	4737	3.0	2	7	0	9.1302E-08
70	10.135	Endosulfan I	0.0010	0.0004%	9239	3158	2.9	2	7	.2480	1.1134E-07
71	10.185		0.8271	0.3588%	8271	3082	2.7	2			1.0000E-04
72	10.310		5.2904	2.2952%	52904	12170	4.3	2			1.0000E-04
73	10.420		1.1508	0.4993%	11508	3719	3.1	2			1.0000E-04
74	10.465		1.0046	0.4358%	10046	3868	2.6	2			1.0000E-04
75	10.510		1.9909	0.8637%	19909	5182	3.8	2			1.0000E-04
76	10.620	4,4'-DDE	0.0260	0.0113%	233439	122033	1.9	2	7	.0996	1.1134E-07
77	10.690	Dieldrin	0.0044	0.0019%	43957	10561	4.2	2	7	.1934	9.9731E-08
78	10.835		2.6507	1.1500%	26507	5770	4.6	2			1.0000E-04
79	10.880		4.8652	2.1107%	48652	13005	3.7	2			1.0000E-04
80	10.975		1.7620	0.7644%	17620	6412	2.7	2			1.0000E-04
81	11.025		3.1373	1.3611%	31373	7328	4.3	2			1.0000E-04
82	11.195		7.5471	3.2742%	75471	14684	5.1	2			1.0000E-04
83	11.360	Endrin	0.0092	0.0040%	75999	20779	3.7	2	7	.2762	1.2132E-07
84	11.455		3.7883	1.6435%	37883	10219	3.7	2			1.0000E-04
85	11.625	4,4'-DDD	0.0062	0.0027%	46174	12306	3.8	2	7	0	1.3477E-07
86	11.715		3.2310	1.4017%	32310	9561	3.4	2			1.0000E-04
87	11.830		2.8201	1.2235%	28201	5338	5.3	2			1.0000E-04
88	11.945		2.9294	1.2709%	29294	8379	3.5	2			1.0000E-04
89	12.030		2.3006	0.9981%	23006	8909	2.6	2			1.0000E-04
90	12.115		3.3498	1.4533%	33498	18197	1.8	2			1.0000E-04
91	12.155	4,4'-DDT	0.0250	0.0108%	153606	66538	2.3	2	7	0	1.6277E-07
92	12.295	Endrin Aldehyde	0.0070	0.0030%	40229	14476	2.8	2	7	.2219	1.7436E-07
93	12.370		0.3964	0.1720%	3964	1249	3.2	2			1.0000E-04
95	12.490	Endo. sulfate	0.0019	0.0008%	11740	6793	1.7	1	7	0	1.5764E-07
96	12.625		5.8025	2.5174%	58025	16993	3.4	2			1.0000E-04
97	12.725		2.4647	1.0693%	24647	10015	2.5	2			1.0000E-04
98	12.785		0.6096	0.2645%	6096	2898	2.1	2			1.0000E-04
99	12.825		1.6047	0.6962%	16047	7626	2.1	2			1.0000E-04
100	12.895		3.8309	1.6620%	38309	17195	2.2	2			1.0000E-04
101	12.970		1.0182	0.4418%	10182	4994	2.0	2			1.0000E-04
102	13.065		3.7215	1.6145%	37215	20164	1.8	1			1.0000E-04
103	13.215		0.7396	0.3209%	7396	3663	2.0	1			1.0000E-04
105	13.405		1.5519	0.6733%	15519	5896	2.6	2			1.0000E-04
106	13.510		2.4494	1.0626%	24494	9770	2.5	2			1.0000E-04
107	13.640		1.0701	0.4643%	10701	4046	2.6	2			1.0000E-04
108	13.720	Methoxychlor	0.0045	0.0019%	35754	8374	4.3	2	7	0	1.2466E-07
109	13.840	Endrin Ketone	0.0233	0.0101%	53488	14693	3.6	2	7	0	4.3502E-07
110	14.025		0.6676	0.2896%	6676	2421	2.8	2			1.0000E-04
111	14.055		0.6645	0.2883%	6645	2554	2.6	2			1.0000E-04
112	14.115		1.1555	0.5013%	11555	2979	3.9	2			1.0000E-04
113	14.185		0.7152	0.3103%	7152	1831	3.9	2			1.0000E-04
114	14.305		1.6255	0.7052%	16255	4071	4.0	2			1.0000E-04
115	14.400		1.4746	0.6397%	14746	4436	3.3	2			1.0000E-04
116	14.515		0.5752	0.2495%	5752	1534	3.7	2			1.0000E-04

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118	14.675		1.0719	0.4631%	10719	4543	2.4	2			1.0000E-04
120	14.905		2.1362	0.9268%	21362	9814	2.2	2			1.0000E-04
121	14.985		1.6448	0.7136%	16448	4995	3.3	2			1.0000E-04
124	15.320		2.3894	1.0366%	23894	9893	2.4	1			1.0000E-04
125	15.495		0.3827	0.1660%	3827	859	4.5	2			1.0000E-04
126	15.620		0.4695	0.2037%	4695	1764	2.7	2			1.0000E-04
128	15.965	DCB	0.0076	0.0033%	72857	25642	2.8	1	7	0	1.0420E-07
130	16.375		0.6965	0.3022%	6965	1994	3.5	2			1.0000E-04
131	16.455		0.5228	0.2268%	5228	1860	2.8	2			1.0000E-04

TOTAL AMOUNT = 230.4984

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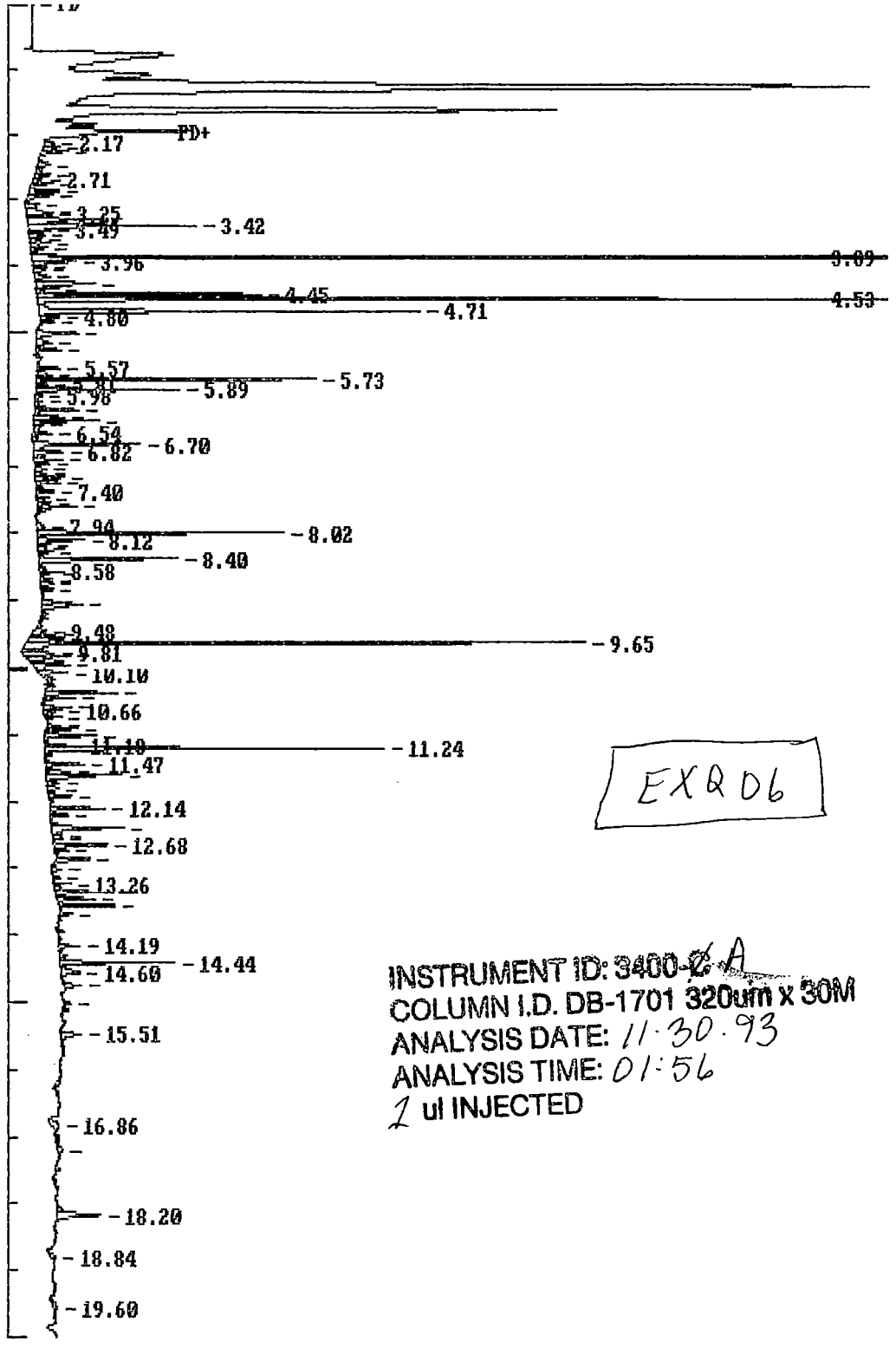
Data File = 0:076A89.PTS Printed on 11-30-1993 at 11:24:17
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 100 millivolts

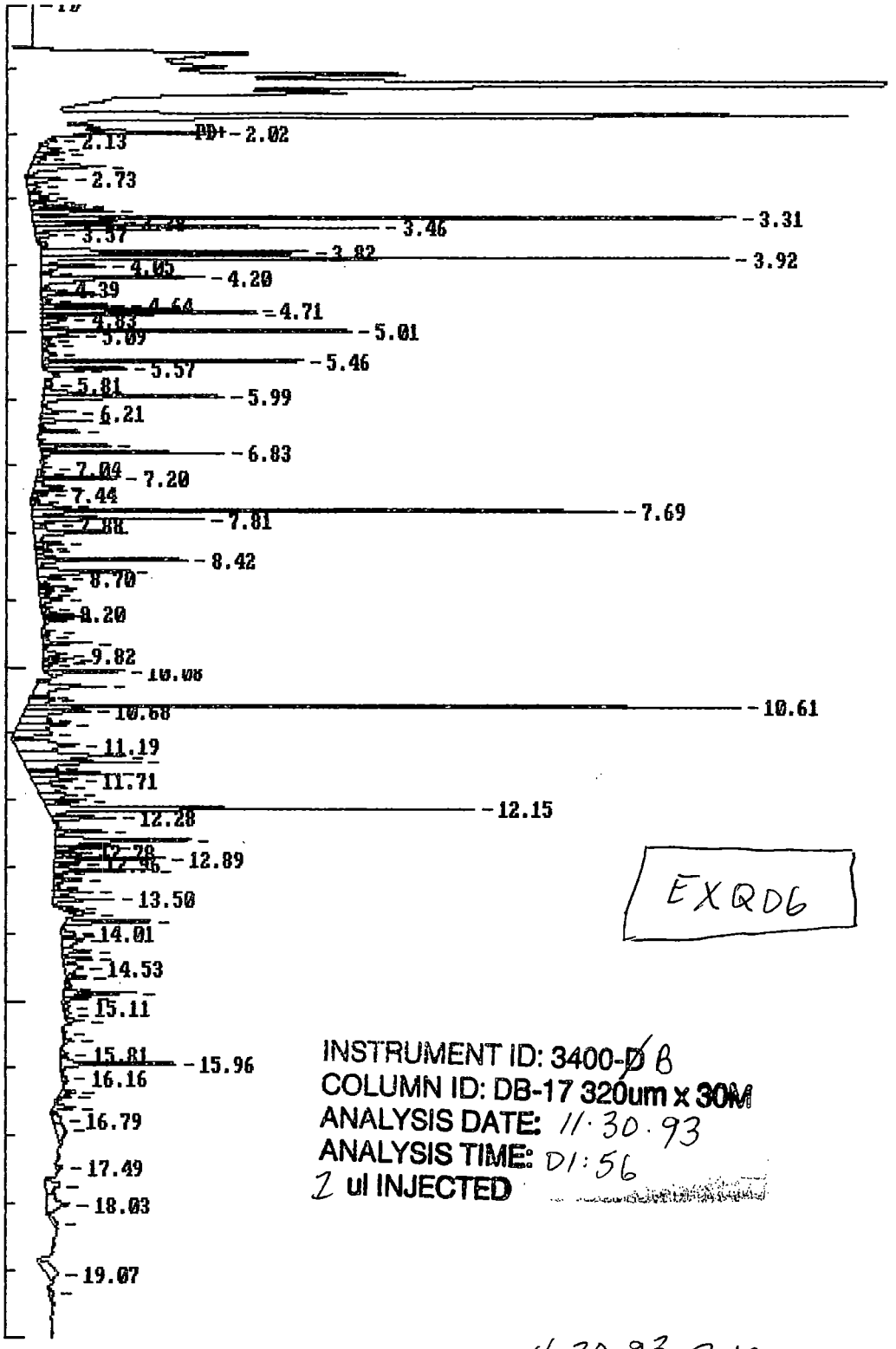


EXQ06

INSTRUMENT ID: 3400-~~2~~ A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11·30·93
ANALYSIS TIME: 01:56
1 ul INJECTED

11·30·93
BMG

Data File = O:076B89.PTS Printed on 11-30-1993 at 13:19:18
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 140 millivolts



EXQD6

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11·30·93
ANALYSIS TIME: 01:56
1 ul INJECTED

11·30·93 BMG

EXTERNAL STANDARD TABLE

```
******************** 11-30-1993 11:11:35 Version 5.1 ********************
* Sample Name: EXQ06/23948,,;                          Data File: O:076A89      *
* Date: 11-30-1993 01:56:32 Method: O:076AB  11-30-1993 10:37:36  #  862      *
* Interface: 1   Cycle#:  89   Operator DB  Channel#: 0    Vial#: N.A.         *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250                  *
*****************************************************************************
* Instrument Type: 3400-A                  Column Type: DB-1701 .32mm x 30M   *
*              Solvent Description: carrier gas = H2; make-up = N2            *
* Conditions:  110H.5to140@20/minto280@11/minH9 INJ=210 DET=300               *
*             Detector 0: ECD Range1          Detector 1: ECD Range1          *
* Misc. Information: 11/22/93,P,;                                             *
*****************************************************************************
Starting Delay:    0.00                      Ending retention time:    20.00
Area reject:      3500                       One sample per    0.300 sec.
Amount injected:        1.00                 Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.300		1.6041	1.3796%	16041	6198	2.6	2			1.0000E-04
2	4.365		0.3501	0.3011%	3501	2052	1.7	2			1.0000E-04
3	4.450	TCX	1.3312	1.1449%	45406	25147	1.8	2	3	0	2.9318E-05
4	4.525		18.8383	16.2022%	188383	111477	1.7	2			1.0000E-04
5	4.710		8.1203	6.9840%	81203	43371	1.9	2			1.0000E-04
6	4.795		0.4723	0.4062%	4723	2152	2.2	2			1.0000E-04
8	5.040		1.3268	1.1411%	13268	4675	2.8	2			1.0000E-04
9	5.185		0.6196	0.5329%	6196	1773	3.5	2			1.0000E-04
10	5.290		0.6797	0.5846%	6797	2870	2.4	2			1.0000E-04
12	5.565		0.5061	0.4353%	5061	2610	1.9	2			1.0000E-04
14	5.675		0.3678	0.3163%	3678	1672	2.2	2			1.0000E-04
15	5.730		5.2086	4.4798%	52086	31875	1.6	2			1.0000E-04
17	5.885		2.7067	2.3279%	27067	16322	1.7	2			1.0000E-04
21	6.190		1.0037	0.8633%	10038	5008	2.0	2			1.0000E-04
22	6.295		0.7877	0.6774%	7877	3484	2.3	2			1.0000E-04
23	6.345		1.5701	1.3504%	15701	7437	2.1	3			1.0000E-04
24	6.410		0.4038	0.3473%	4038	930	4.3	4			1.0000E-04
25	6.540		0.4747	0.4083%	4747	2190	2.2	2			1.0000E-04
27	6.700	gamma-BHC <CRQL	2.0629	1.7743%	26703	12198	2.2	2	3	-.3700	7.7254E-05
28	6.820		1.1430	0.9830%	11430	3384	3.4	2			1.0000E-04
29	6.930		0.8131	0.6993%	8131	3198	2.5	2			1.0000E-04
31	7.065		0.3597	0.3094%	3597	1303	2.8	2			1.0000E-04
33	7.190		0.7596	0.6533%	7596	3288	2.3	2			1.0000E-04
34	7.265		0.6411	0.5514%	6411	2742	2.3	2			1.0000E-04
36	7.400		0.3893	0.3348%	3893	1982	2.0	2	12.1.93		1.0000E-04
39	7.625		0.8288	0.7128%	8288	4398	1.9	2	BMG		1.0000E-04
41	7.935		0.4313	0.3709%	4313	947	4.6	2			1.0000E-04
42	8.015	beta-BHC <CRQL	3.1589	2.7169%	52460	28163	1.9	2	3	-.4583	6.0215E-05
43	8.120		1.3962	1.2008%	13962	5341	2.6	2			1.0000E-04
46	8.290		0.3962	0.3408%	3962	1633	2.4	2			1.0000E-04
48	8.400	delta-BHC Conf-	3.0772	2.6466%	34849	15789	2.2	2	3	-.2502	8.8302E-05
52	8.760	Hept. epoxide <CRQL	0.3814	0.3280%	4355	1335	3.3	2	3	0	8.7570E-05
56	9.080		1.6204	1.3937%	16204	4643	3.5	2			1.0000E-04
60	9.475	a. Chlordane <CRQL	0.4074	0.3504%	5145	1448	3.6	2	3	.1718	7.9185E-05
61	9.535		0.6020	0.5178%	6020	2739	2.2	2			1.0000E-04
62	9.585		1.4106	1.2132%	14106	4035	3.5	2			1.0000E-04
63	9.650	4,4'-DDE Conf+	13.2899	11.4302%	120380	64129	1.9	2	3	.1209	1.1040E-04
64	9.805		0.6447	0.5545%	6447	3563	1.8	2			1.0000E-04
65	9.850	Dieldrin <CRQL	2.0149	1.7330%	15592	5090	3.1	2	3	.1229	1.2923E-04
66	9.920		0.4412	0.3795%	4412	1738	2.5	2			1.0000E-04
67	9.980		1.0980	0.9444%	10980	4054	2.7	2			1.0000E-04

1529

71	10.395		1.7052	1.4666%	17052	8336	2.0	2			1.0000E-04
72	10.475		0.6272	0.5395%	6272	3718	1.7	2			1.0000E-04
74	10.610		0.5620	0.4833%	5620	3305	1.7	2			1.0000E-04
75	10.655		0.4121	0.3544%	4121	2055	2.0	2			1.0000E-04
79	10.940	4,4'-DDD <CRQL	0.6724	0.5783%	6948	3656	1.9	2	3	0	9.6772E-05
80	11.035		1.4528	1.2495%	14528	5949	2.4	2			1.0000E-04
82	11.180		0.4357	0.3748%	4357	2389	1.8	2			1.0000E-04
83	11.235	4,4'-DDT Conf+	5.9055	5.0792%	68695	38794	1.8	3	3	0	8.5967E-05
86	11.470		0.9236	0.7944%	9236	4340	2.1	3			1.0000E-04
88	11.585		0.5225	0.4494%	5225	2775	1.9	2			1.0000E-04
89	11.625	Endrin Aldehyde <CRQL	2.1427	1.8429%	23106	8679	2.7	2	3	0	9.2734E-05
91	11.835		0.4234	0.3642%	4234	1327	3.2	2			1.0000E-04
92	11.945		0.7330	0.6304%	7330	2715	2.7	1			1.0000E-04
94	12.135	Endo. sulfate < CRQL	1.3052	1.1226%	11695	6195	1.9	2	3	-.1455	1.1160E-04
95	12.230		0.4775	0.4107%	4775	2046	2.3	2			1.0000E-04
97	12.425		2.2118	1.9023%	22118	8207	2.7	2			1.0000E-04
98	12.545		0.3871	0.3330%	3871	1015	3.8	2			1.0000E-04
100	12.680		1.6252	1.3978%	16252	6093	2.7	2			1.0000E-04
103	12.890		1.2807	1.1015%	12807	3878	3.3	1			1.0000E-04
108	13.390		1.4195	1.2209%	14195	6266	2.3	2			1.0000E-04
109	13.485		0.8362	0.7192%	8362	4234	2.0	2			1.0000E-04
110	13.580		1.3498	1.1610%	13498	6260	2.2	2			1.0000E-04
115	14.185		0.4986	0.4288%	4986	2426	2.1	2			1.0000E-04
119	14.440	DCB	2.3504	2.0215%	23808	13119	1.8	2	3	0	9.8726E-05
120	14.595		0.9853	0.8474%	9853	2126	4.6	2			1.0000E-04
121	14.780		0.5638	0.4849%	5639	1988	2.8	1			1.0000E-04

TOTAL AMOUNT = 116.2698

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EXTERNAL STANDARD TABLE

********** 11-30-1993 12:37:50 Version 5.1 **********

* Sample Name: EXQ06/23948,,; Data File: O:076B89 *
* Date: 11-30-1993 01:56:38 Method: O:076BB 11-30-1993 11:14:42 # 886 *
* Interface: 2 Cycle#: 89 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

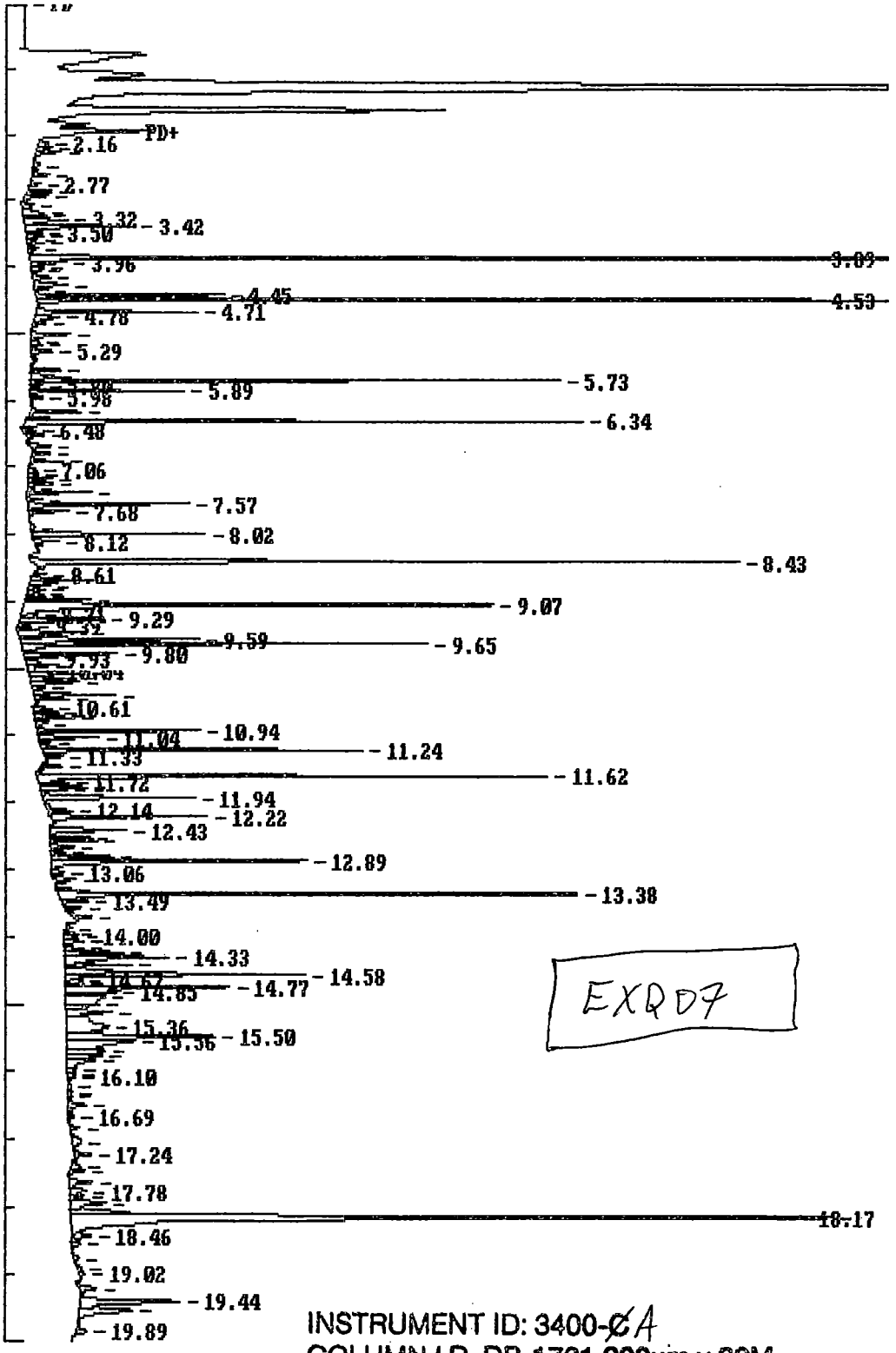
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.635		2.5539	1.3575%	25539	12771	2.0	2			1.0000E-04
3	4.705		6.2126	3.3022%	62126	33938	1.8	2			1.0000E-04
4	4.755		6.6924	3.5572%	66924	34290	2.0	2			1.0000E-04
5	4.830		1.6621	0.8834%	16621	3799	4.4	2			1.0000E-04
6	4.960		0.8249	0.4385%	8249	4036	2.0	2			1.0000E-04
7	5.010	TCX	0.0127	0.0068%	93879	49468	1.9	2	7	0	1.3549E-07
8	5.085		1.2796	0.6802%	12796	5555	2.3	2			1.0000E-04
10	5.225		0.7876	0.4186%	7876	1957	4.0	2			1.0000E-04
11	5.360		0.8355	0.4441%	8355	2172	3.8	2			1.0000E-04
12	5.460		7.2074	3.8310%	72074	41643	1.7	2			1.0000E-04
13	5.565		2.7934	1.4848%	27934	12592	2.2	2			1.0000E-04
14	5.610		0.9138	0.4857%	9138	4930	1.9	2			1.0000E-04
16	5.805		0.5955	0.3165%	5955	1355	4.4	2			1.0000E-04
17	5.930		1.8309	0.9732%	18309	5563	3.3	2			1.0000E-04
18	5.985		8.0251	4.2656%	80251	28684	2.8	2			1.0000E-04
19	6.210		1.3204	0.7019%	13204	5276	2.5	2			1.0000E-04
21	6.345		1.5585	0.8284%	15585	8124	1.9	2			1.0000E-04
23	6.505		1.1581	0.6156%	11581	6468	1.8	2			1.0000E-04
25	6.715		2.4001	1.2758%	24001	11126	2.2	2			1.0000E-04
26	6.825		4.7690	2.5349%	47690	28979	1.6	2			1.0000E-04
31	7.195	gamma-BHC	0.0024	0.0013%	25666	12996	2.0	2	7	.1300	9.1880E-08
32	7.335		1.4300	0.7601%	14300	4637	3.1	2			1.0000E-04
33	7.380	beta-BHC	0.0033	0.0017%	11820	5197	2.3	2	7	.1996	2.7691E-07
34	7.440		0.7549	0.4012%	7549	2417	3.1	2			1.0000E-04
36	7.625		1.5337	0.8152%	15337	6096	2.5	2			1.0000E-04
37	7.685		17.6552	9.3844%	176552	93698	1.9	2			1.0000E-04
38	7.805	Heptachlor	0.0061	0.0033%	54896	27151	2.0	2	7	.2638	1.1145E-07
39	7.875		1.0211	0.5427%	10211	3296	3.1	2			1.0000E-04
40	8.000		4.1932	2.2288%	41932	11904	3.5	2			1.0000E-04
41	8.175		1.0646	0.5659%	10646	4407	2.4	2			1.0000E-04
42	8.225		0.4704	0.2500%	4704	2047	2.3	2			1.0000E-04
43	8.285		0.9238	0.4910%	9238	2462	3.8	2			1.0000E-04
44	8.370	Aldrin	0.0006	0.0003%	7042	2900	2.4	2	7	0	8.1798E-08
45	8.415		5.3651	2.8517%	53651	23766	2.3	2			1.0000E-04
46	8.575		5.8850	3.1281%	58850	14395	4.1	2			1.0000E-04
47	8.700		1.1717	0.6228%	11717	4076	2.9	2			1.0000E-04
48	8.780		0.3785	0.2012%	3785	1624	2.3	2			1.0000E-04
49	8.825		0.5887	0.3129%	5887	2904	2.0	2			1.0000E-04
50	8.865		0.6015	0.3197%	6015	2207	2.7	2			1.0000E-04
51	8.930		0.4874	0.2591%	4874	1691	2.9	2			1.0000E-04
52	9.000		1.1112	0.5906%	11112	3465	3.2	2			1.0000E-04

55	9.230		0.9527	0.5190%	9527	5444	1.7	2			1.0000E-04
56	9.280		0.9579	0.5092%	9579	4577	2.1	2			1.0000E-04
57	9.310		1.0942	0.5816%	10942	4583	2.4	2			1.0000E-04
58	9.475	Hept. epoxide	0.0005	0.0003%	4560	1998	2.3	2	7	.1467	1.0548E-07
60	9.650		1.6039	0.8525%	16039	7621	2.1	2			1.0000E-04
62	9.820		1.1468	0.6096%	11468	3512	3.3	2			1.0000E-04
63	9.895		0.9868	0.5245%	9868	4685	2.1	2			1.0000E-04
64	9.930		0.7603	0.4041%	7603	3523	2.2	2			1.0000E-04
66	10.075	a. Chlordane	0.0024	0.0013%	25913	11957	2.2	1	7	0	9.1302E-08
67	10.300		5.0512	2.6849%	50512	11221	4.5	2			1.0000E-04
68	10.450		0.7717	0.4102%	7717	3015	2.6	2			1.0000E-04
69	10.500		1.7360	0.9227%	17360	4033	4.3	2			1.0000E-04
70	10.610	4,4'-DDE	0.0238	0.0126%	213571	114354	1.9	2	7	.1052	1.1134E-07
71	10.680	Dieldrin	0.0042	0.0022%	41716	10499	4.0	2	7	.1995	9.9731E-08
72	10.825		2.5570	1.3592%	25570	5116	5.0	2			1.0000E-04
73	10.870		3.5212	1.8717%	35212	8037	4.4	2			1.0000E-04
74	11.010		3.9196	2.0834%	39196	5983	6.6	2			1.0000E-04
75	11.190		7.0728	3.7594%	70728	9840	7.2	2			1.0000E-04
76	11.350	Endrin	0.0096	0.0051%	78855	16314	4.8	2	7	.2879	1.2132E-07
77	11.450		6.0692	3.2260%	60692	18251	3.3	2			1.0000E-04
78	11.555		1.3789	0.7329%	13789	4831	2.9	2			1.0000E-04
79	11.615	4,4'-DDD	0.0052	0.0028%	38612	13392	2.9	2	7	0	1.3477E-07
80	11.705		2.7872	1.4815%	27872	6966	4.0	2			1.0000E-04
81	11.825		2.6271	1.3964%	26271	4614	5.7	2			1.0000E-04
82	11.935		2.2929	1.2188%	22929	5605	4.1	2			1.0000E-04
83	12.020		1.7382	0.9239%	17382	6600	2.6	2			1.0000E-04
84	12.145	4,4'-DDT	0.0257	0.0137%	158000	68083	2.3	2	7	0	1.6277E-07
85	12.280	Endrin Aldehyde	0.0047	0.0025%	26813	9794	2.7	2	7	.1996	1.7436E-07
88	12.480	Endo. sulfate	0.0029	0.0015%	18323	8046	2.3	2	7	0	1.5764E-07
89	12.615		7.5229	3.9987%	75229	21380	3.5	2			1.0000E-04
90	12.715		2.3998	1.2756%	23998	8833	2.7	2			1.0000E-04
91	12.775		0.5551	0.2950%	5551	2924	1.9	2			1.0000E-04
92	12.815		1.3208	0.7021%	13208	5519	2.4	2			1.0000E-04
93	12.885		4.1785	2.2210%	41785	17319	2.4	2			1.0000E-04
94	12.960		0.9887	0.5256%	9887	3977	2.5	2			1.0000E-04
95	13.060		3.1768	1.6886%	31768	15500	2.0	2			1.0000E-04
96	13.105		0.4146	0.2204%	4146	1971	2.1	2			1.0000E-04
98	13.205		1.3005	0.6912%	13005	4376	3.0	2			1.0000E-04
100	13.395		1.7401	0.9249%	17401	6198	2.8	2			1.0000E-04
101	13.500		2.5512	1.3561%	25512	9675	2.6	2			1.0000E-04
102	13.630		0.4145	0.2203%	4145	2452	1.7	1			1.0000E-04
103	13.710	Methoxychlor	0.0007	0.0004%	5571	2591	2.1	1	7	0	1.2466E-07
104	13.830	Endrin Ketone	0.0167	0.0089%	38493	13521	2.8	1	7	.1272	4.3502E-07
105	14.010		0.5367	0.2853%	5367	2003	2.7	2			1.0000E-04
106	14.045		0.5146	0.2735%	5146	2169	2.4	2			1.0000E-04
107	14.110		1.7700	0.9408%	17700	3291	5.4	2			1.0000E-04
108	14.280		1.3960	0.7420%	13960	4482	3.1	2			1.0000E-04
109	14.390		1.4178	0.7536%	14178	4533	3.1	2			1.0000E-04
110	14.530		1.7208	0.9147%	17208	2729	6.3	2			1.0000E-04
111	14.665		0.5689	0.3024%	5689	3173	1.8	2			1.0000E-04
114	14.900		2.7883	1.4821%	27883	11351	2.5	2			1.0000E-04
115	14.975		1.2818	0.6813%	12818	4194	3.1	2			1.0000E-04
118	15.310		0.4342	0.2308%	4342	2371	1.8	1			1.0000E-04
120	15.610		0.4494	0.2389%	4494	1655	2.7	2			1.0000E-04
122	15.955	DCB	0.0052	0.0028%	50358	18055	2.8	2	7	.1054	1.0420E-07
126	16.365		0.7926	0.4213%	7926	2219	3.6	2			1.0000E-04
127	16.445		0.5692	0.3026%	5692	2092	2.7	2			1.0000E-04

TOTAL AMOUNT = 188.1338

D76BB9
P2
11-30-93
BMB

Data File = 0:076A97.PTS Printed on 11-30-1993 at 12:08:28
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 140 millivolts

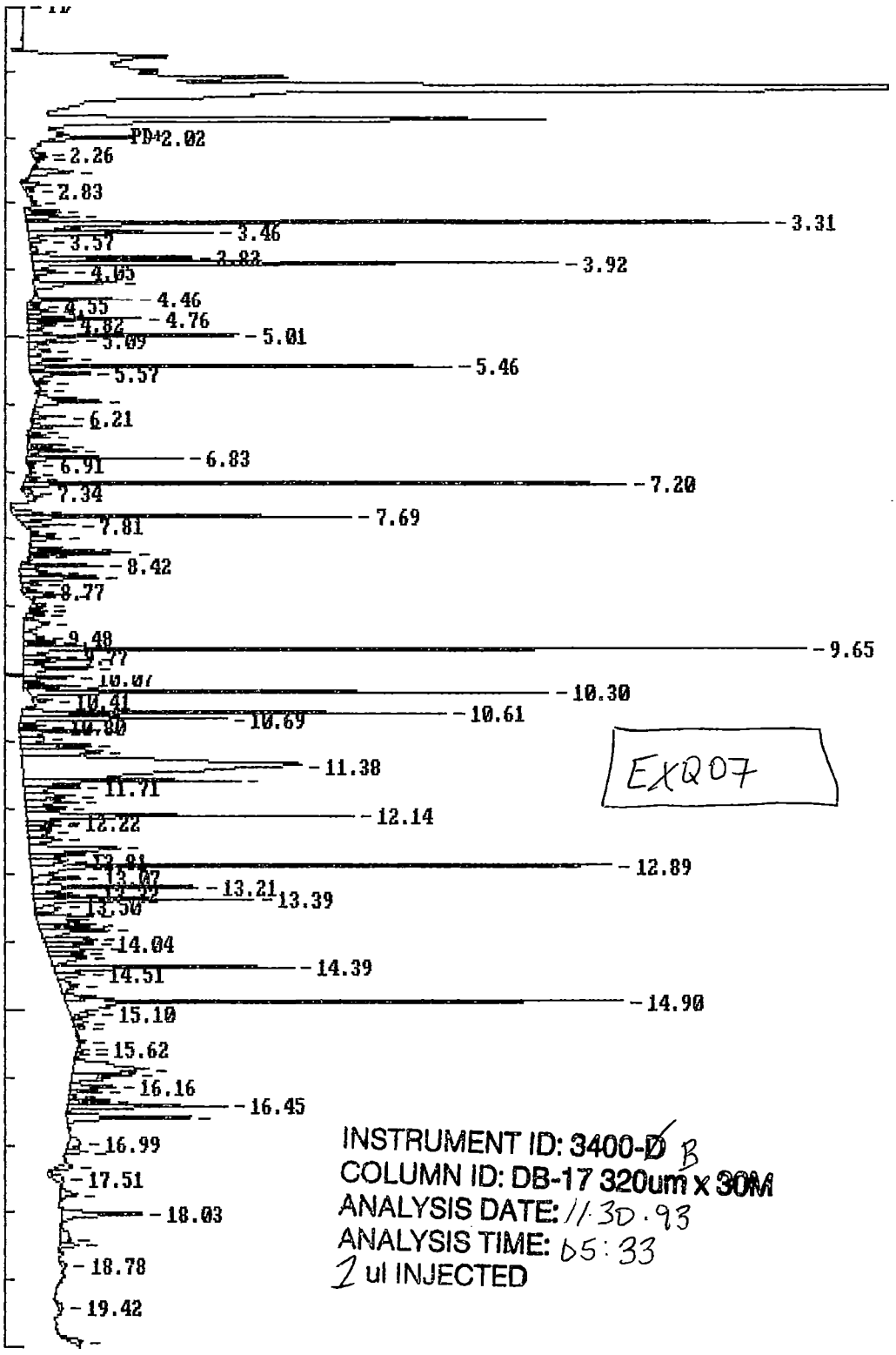


EXQ07

INSTRUMENT ID: 3400-ØA
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-30-93
ANALYSIS TIME: 05:32
1 ul INJECTED

11-30-93
BMB

Data File = 0:076B97.PTS Printed on 11-30-1993 at 15:25:44
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 250 millivolts



EXQ07

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11.30.93
ANALYSIS TIME: 05:33
1 ul INJECTED

11-30-93
BMG

EXTERNAL STANDARD TABLE

********** 11-30-1993 11:49:04 Version 5.1 **********

* Sample Name: EX007/23949,,; Data File: 0:076A97 *
* Date: 11-30-1993 05:32:55 Method: 0:076AB 11-30-1993 10:37:36 # 862 *
* Interface: 1 Cycle#: 97 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.300		1.2990	0.4211%	12990	4911	2.6	2			1.0000E-04
3	4.450	TCX	1.5244	0.4941%	51995	29690	1.8	2	3	0	2.9318E-05
4	4.525		22.7566	7.3765%	227566	139349	1.6	2			1.0000E-04
5	4.710		4.7122	1.5274%	47122	25472	1.8	2			1.0000E-04
6	4.780		1.2329	0.3996%	12329	3955	3.1	2			1.0000E-04
9	5.040		1.8332	0.5942%	18332	6238	2.9	2			1.0000E-04
11	5.190		0.5174	0.1677%	5174	1725	3.0	2			1.0000E-04
12	5.290		1.1042	0.3579%	11042	3461	3.2	2			1.0000E-04
15	5.565		0.8929	0.2894%	8929	4788	1.9	2			1.0000E-04
16	5.665		1.1156	0.3616%	11156	3676	3.0	2			1.0000E-04
17	5.725		14.1537	4.5879%	141537	84549	1.7	2			1.0000E-04
18	5.800		0.4666	0.1512%	4666	1950	2.4	2			1.0000E-04
19	5.885		3.8359	1.2434%	38359	24236	1.6	2			1.0000E-04
20	5.980		0.3806	0.1234%	3806	1962	1.9	3			1.0000E-04
22	6.190		1.6272	0.5274%	16272	8205	2.0	2			1.0000E-04
23	6.290		0.8472	0.2746%	8472	3720	2.3	2			1.0000E-04
24	6.340		15.9752	5.1783%	159752	89087	1.8	2			1.0000E-04
25	6.480		0.4685	0.1519%	4685	1909	2.5	1			1.0000E-04
26	6.540		0.5082	0.1647%	5082	2679	1.9	1			1.0000E-04
27	6.710	gamma-BHC < CRQL	0.5337	0.1730%	6909	2745	2.5	1	3	-.2213	7.7254E-05
28	6.815		0.7462	0.2419%	7462	2863	2.6	1			1.0000E-04
29	6.930		0.9832	0.3187%	9832	5343	1.8	1			1.0000E-04
32	7.130	Heptachlor < LRQL	0.4645	0.1506%	5632	1544	3.6	2	3	.2247	8.2482E-05
33	7.190		0.8992	0.2915%	8992	3821	2.4	2			1.0000E-04
34	7.265		1.0494	0.3402%	10494	3917	2.7	2			1.0000E-04
36	7.395		1.7297	0.5607%	17297	10112	1.7	2			1.0000E-04
37	7.500		0.3824	0.1239%	3824	2251	1.7	2			1.0000E-04
38	7.570	Aldrin < CRQL	3.5338	1.1455%	48459	25361	1.9	2	3	0	7.2922E-05
39	7.675		1.2529	0.4061%	12529	6434	1.9	2			1.0000E-04
41	8.015	beta-BHC < CRQL	3.0945	1.0031%	51391	27367	1.9	2	3	-.4583	6.0215E-05
42	8.120		0.8772	0.2843%	8772	3890	2.3	2			1.0000E-04
46	8.430	delta-BHC Conf-	19.1791	6.2169%	217199	112041	1.9	1	3	.1059	8.8302E-05
48	8.675	< CRQL	0.7704	0.2497%	7704	4641	1.7	2			1.0000E-04
49	8.710		1.9170	0.6214%	19170	9830	2.0	2			1.0000E-04
50	8.780	Hept. epoxide < CRQL	0.9250	0.2998%	10563	3368	3.1	2	3	.2247	8.7570E-05
51	8.845		0.7541	0.2444%	7541	2753	2.7	2			1.0000E-04
52	8.910		0.6072	0.1968%	6072	2702	2.2	2			1.0000E-04
53	8.950		0.6479	0.2100%	6479	3051	2.1	2			1.0000E-04
54	8.990		1.7274	0.5599%	17274	10344	1.7	2			1.0000E-04
55	9.070		19.3873	6.2843%	193873	74898	2.6	3			1.0000E-04
56	9.210	Endosulfan I Conf-	0.3573	0.1158%	4867	2156	2.3	4	3	-.1006	7.3413E-05
57	9.295		2.2944	1.1002%	22944	12222	2.5	2			1.0000E-04

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1546

58	9.350	g. Chlordane <CRQL	0.9027	0.2526%	11449	5328	2.1	2	3	.1174	7.8047E-05
60	9.475	a. Chlordane <CRQL	2.1070	0.6830%	26609	10470	2.5	2	3	.1718	7.9185E-05
61	9.535		0.7260	0.2353%	7260	3739	1.9	2			1.0000E-04
62	9.585		6.6554	2.1573%	66554	28185	2.4	2			1.0000E-04
63	9.650	4,4'-DDE Conf+	13.7029	4.4418%	124121	64776	1.9	2	3	.1209	1.1040E-04
64	9.800		2.5789	0.8359%	25789	14740	1.7	2			1.0000E-04
65	9.850	Dieldrin <CRQL	1.5317	0.4965%	11852	5136	2.3	2	3	.1230	1.2923E-04
66	9.925		0.7502	0.2432%	7502	2337	3.2	2			1.0000E-04
67	9.975		0.9793	0.3174%	9793	3425	2.9	2			1.0000E-04
68	10.040		0.4215	0.1366%	4215	2245	1.9	2			1.0000E-04
69	10.090		2.2681	0.7352%	22682	8764	2.6	2			1.0000E-04
70	10.160	Endrin Conf - <CRQL	1.2769	0.4139%	12632	6738	1.9	2	3	-.1683	1.0109E-04
71	10.205		2.4744	0.8021%	24744	7605	3.3	2			1.0000E-04
72	10.295		0.5705	0.1849%	5705	1914	3.0	2			1.0000E-04
73	10.370		0.4617	0.1497%	4617	2905	1.6	2			1.0000E-04
74	10.410		2.5908	0.8398%	25908	12796	2.0	2			1.0000E-04
75	10.475		0.8791	0.2850%	8791	5262	1.7	2			1.0000E-04
76	10.610		0.4871	0.1579%	4871	2892	1.7	2			1.0000E-04
77	10.655	12-03-93	0.7657	0.2482%	7657	3819	2.0	2			1.0000E-04
78	10.710	DJB	0.9601	0.3112%	9601	4741	2.0	2			1.0000E-04
79	10.755		1.1613	0.3764%	11613	6253	1.9	2			1.0000E-04
80	10.830	X Flag	0.5753	0.1865%	5753	1733	3.3	2			1.0000E-04
81	10.940	4,4'-DDD ~~<CRQL~~	4.0880	1.3251%	42244	25588	1.7	2	3	0	9.6772E-05
82	11.035		2.1450	0.6953%	21450	9476	2.3	2			1.0000E-04
84	11.185		0.5288	0.1714%	5288	2236	2.4	2			1.0000E-04
85	11.235	4,4'-DDT Conf+	7.6720	2.4869%	89243	50882	1.8	2	3	0	8.5967E-05
86	11.325		0.5342	0.1731%	5342	2752	1.9	2			1.0000E-04
88	11.470		0.6506	0.2109%	6506	3451	1.9	2			1.0000E-04
90	11.620	Endrin Aldehyde <CRQL	14.9700	4.8525%	161429	81342	2.0	2	3	0	9.2734E-05
91	11.715		1.0829	0.3510%	10829	4652	2.3	2			1.0000E-04
92	11.785		1.4892	0.4827%	14892	7214	2.1	2			1.0000E-04
93	11.825		0.8652	0.2805%	8652	3995	2.2	2			1.0000E-04
94	11.940		5.5198	1.7892%	55198	23970	2.3	2			1.0000E-04
95	12.135	Endo. sulfate <CRQL	1.1761	0.3812%	10538	3855	2.7	2	3	-.1455	1.1160E-04
96	12.220		5.3041	1.7193%	53041	24857	2.1	3			1.0000E-04
98	12.425		3.3378	1.0819%	33378	12039	2.8	1			1.0000E-04
99	12.540		1.0592	0.3433%	10592	6221	1.7	2			1.0000E-04
100	12.585		1.4211	0.4606%	14211	7289	1.9	2			1.0000E-04
101	12.680		1.2638	0.4097%	12638	3643	3.5	2			1.0000E-04
103	12.825	Endrin Ketone <CRQL	1.0589	0.3432%	23661	9822	2.4	2	3	.4204	4.4753E-05
104	12.890		9.8302	3.1864%	98302	40617	2.4	2			1.0000E-04
105	13.060		0.6015	0.1950%	6015	1935	3.1	2			1.0000E-04
106	13.155		0.4630	0.1501%	4630	2357	2.0	1			1.0000E-04
108	13.305		0.4553	0.1476%	4553	2432	1.9	2			1.0000E-04
109	13.380		17.6862	5.7329%	176862	82894	2.1	2			1.0000E-04
110	13.485		1.1196	0.3629%	11196	4259	2.6	2			1.0000E-04
111	13.580		0.6009	0.1948%	6009	2787	2.2	1			1.0000E-04
113	13.725		0.5725	0.1856%	5725	2573	2.2	2			1.0000E-04
116	14.000		0.7558	0.2450%	7558	2273	3.3	2			1.0000E-04
117	14.085		0.8103	0.2627%	8103	2994	2.7	2			1.0000E-04
118	14.195		0.5682	0.1842%	5682	2740	2.1	2			1.0000E-04
119	14.255		1.8525	0.6005%	18525	8894	2.1	2			1.0000E-04
120	14.325		4.7685	1.5457%	47685	15833	3.0	2			1.0000E-04
121	14.435	DCB	1.7983	0.5829%	18215	9825	1.9	2	3	0	9.8726E-05
122	14.530		1.8699	0.6061%	18699	7099	2.6	2			1.0000E-04
123	14.580		8.9681	2.9070%	89681	37110	2.4	3			1.0000E-04
125	14.710		0.3793	0.1230%	3793	1633	2.3	2			1.0000E-04
126	14.770		6.4112	2.0782%	64112	24543	2.6	2			1.0000E-04
127	14.845		2.2009	0.7134%	22009	6392	3.4	2			1.0000E-04
128	14.925		2.4853	0.8056%	24853	4394	5.7	2			1.0000E-04
129	15.025		1.1037	0.3578%	11037	3365	3.3	2			1.0000E-04
130	15.145		1.0693	0.3466%	10693	5069	2.1	2			1.0000E-04
131	15.355		2.6728	0.8664%	26728	3535	7.6	1			1.0000E-04

TOTAL AMOUNT = 308.5019

D76A97 P2 3416 11-30-93

Areas, times, and heights stored in: 0:076B95.ATB

EXTERNAL STANDARD TABLE

********** 11-30-1993 13:38:08 Version 5.1 **********

* Sample Name: EXQ07/23949,,; Data File: 0:076B97 *
* Date: 11-30-1993 05:33:03 Method: 0:076BB 11-30-1993 13:34:48 # 888 *
* Interface: 2 Cycle#: 97 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 5 Threshold: 50 Area Threshold: 500 *

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

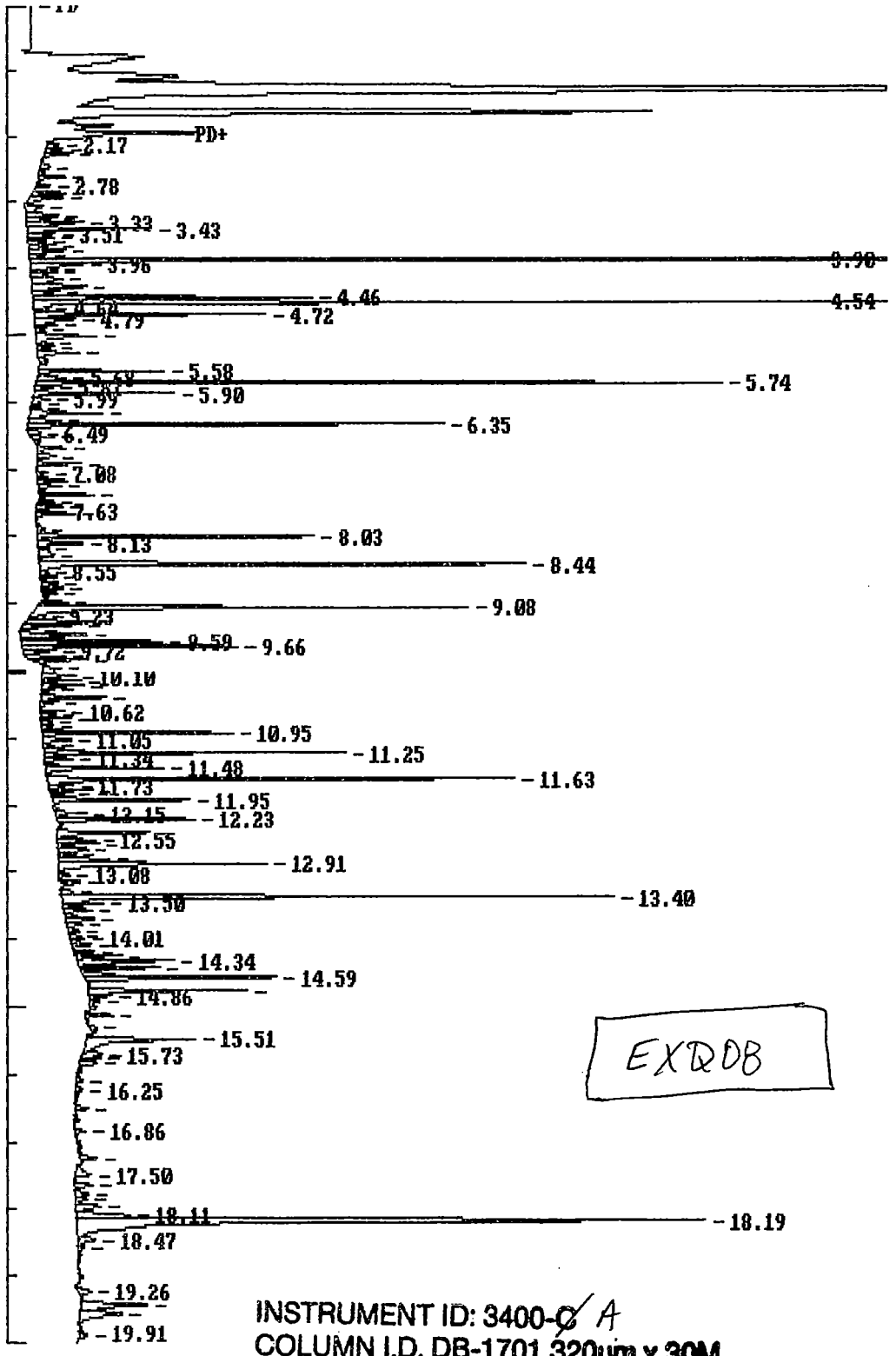
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.545		0.9876	0.1882%	9876	3394	2.9	2			1.0000E-04
2	4.635		2.3813	0.4538%	23813	7958	3.0	2			1.0000E-04
3	4.710		2.1198	0.4039%	21198	10485	2.0	2			1.0000E-04
4	4.755		6.5251	1.2434%	65251	32044	2.0	2			1.0000E-04
5	4.825		3.3358	0.6357%	33358	7819	4.3	2			1.0000E-04
6	4.960		2.0191	0.3847%	20191	6657	3.0	2			1.0000E-04
7	5.005	TCX	0.0161	0.0031%	118643	59570	2.0	2	7	0	1.3549E-07
8	5.085		3.9454	0.7518%	39454	14012	2.8	2			1.0000E-04
9	5.220		2.9638	0.5648%	29638	6139	4.8	2			1.0000E-04
10	5.345		4.0972	0.7807%	40972	12291	3.3	2			1.0000E-04
11	5.460		21.2137	4.0424%	212137	120336	1.8	2			1.0000E-04
12	5.565		5.3714	1.0235%	53714	16831	3.2	2			1.0000E-04
13	5.690		0.8833	0.1683%	8833	4114	2.1	2			1.0000E-04
14	5.820		0.3714	0.0708%	3714	2499	1.5	1			1.0000E-04
15	5.980		7.4049	1.4110%	74049	18531	4.0	2			1.0000E-04
16	6.210		1.7499	0.3335%	17499	9543	1.8	2			1.0000E-04
17	6.345		2.8625	0.5455%	28625	14551	2.0	1			1.0000E-04
18	6.445	alpha-BHC	0.0004	0.0001%	5292	3363	1.6	1	7	.3775	7.3132E-08
19	6.505		1.0405	0.1983%	10406	6212	1.7	1			1.0000E-04
20	6.630		2.0282	0.3865%	20282	10444	1.9	2			1.0000E-04
21	6.710		3.1126	0.5931%	31126	13850	2.2	2			1.0000E-04
22	6.825		7.4114	1.4123%	74114	43876	1.7	2			1.0000E-04
25	7.115		0.8870	0.1690%	8870	3881	2.3	2			1.0000E-04
26	7.195	gamma-BHC	0.0276	0.0053%	300653	171890	1.7	2	7	.2300	9.1880E-08
27	7.335	beta-BHC	0.0020	0.0004%	7282	1657	4.4	1	7	-.3118	2.7691E-07
28	7.625		2.5587	0.4876%	25587	7909	3.2	2			1.0000E-04
29	7.685		18.1240	3.4536%	181240	94549	1.9	2			1.0000E-04
30	7.805	Heptachlor	0.0033	0.0006%	29384	13889	2.1	2	7	.3639	1.1145E-07
31	7.920		0.3543	0.0675%	3543	1914	1.9	2			1.0000E-04
32	8.000	delta-BHC	0.0025	0.0005%	25160	8691	2.9	2	7	-.4469	1.0128E-07
33	8.175		3.0900	0.5888%	30900	18310	1.7	2			1.0000E-04
34	8.225		4.7157	0.8986%	47157	29007	1.6	2			1.0000E-04
35	8.285		0.9480	0.1806%	9480	5438	1.7	2			1.0000E-04
36	8.415		4.7957	0.9139%	47957	23414	2.0	1			1.0000E-04
37	8.525		3.5571	0.6778%	35571	11359	3.1	2			1.0000E-04
38	8.585		8.1202	1.5473%	81202	22042	3.7	2			1.0000E-04
39	8.695		1.6906	0.3222%	16906	5552	3.0	2			1.0000E-04
40	8.775		0.7076	0.1348%	7076	3937	1.8	2			1.0000E-04
41	8.845		3.1451	0.5993%	31451	12421	2.5	1			1.0000E-04
42	9.000		1.2184	0.2322%	12184	4141	2.9	2			1.0000E-04

44	9.140		1.5098	0.2877%	15098	4991	3.0	2			1.0000E-04
45	9.275		4.5712	0.8711%	45712	7156	6.4	2			1.0000E-04
46	9.480	Hept. epoxide	0.0033	0.0006%	31545	5802	5.4	2	7	.2997	1.0548E-07
47	9.550		1.9096	0.3639%	19096	9077	2.1	2			1.0000E-04
48	9.650		43.4225	8.2744%	434225	222872	1.9	2			1.0000E-04
49	9.775	g. Chlordane	0.0020	0.0004%	22038	9935	2.2	2	7	.2484	9.2400E-08
50	9.815		4.8576	0.9256%	48576	19730	2.5	2			1.0000E-04
51	9.935		7.2043	1.3728%	72043	19373	3.7	2			1.0000E-04
52	10.070	a. Chlordane	0.0032	0.0006%	35069	13957	2.5	2	7	.1008	9.1302E-08
53	10.210		3.7769	0.7197%	37769	15918	2.4	2			1.0000E-04
54	10.295		28.4108	5.4138%	284108	148118	1.9	2			1.0000E-04
55	10.410		1.1230	0.2140%	11230	5000	2.2	2			1.0000E-04
56	10.605	4,4'-DDE	0.0268	0.0051%	240416	120939	2.0	2	7	.1580	1.1134E-07
57	10.685	Dieldrin	0.0144	0.0027%	144284	58434	2.5	2	7	.3466	9.9731E-08
58	10.795		1.7522	0.3339%	17522	7051	2.5	1			1.0000E-04
59	10.870		6.4465	1.2284%	64465	22553	2.9	2			1.0000E-04
60	10.995		3.3724	0.6426%	33724	6679	5.0	2			1.0000E-04
61	11.085		5.2314	0.9969%	52314	19937	2.6	2			1.0000E-04
62	11.185		10.4692	1.9950%	104692	22747	4.6	2			1.0000E-04
63	11.380	Endrin	0.1198	0.0228%	987745	79391	12.4	2	7	.6534	1.2132E-07
64	11.615	4,4'-DDD	0.0247	0.0047%	182998	61553	3.0	2	7	.1703	1.3477E-07
65	11.710		5.3761	1.0245%	53761	15746	3.4	2			1.0000E-04
66	11.840		5.3469	1.0189%	53469	14026	3.8	2			1.0000E-04
67	11.935		6.2128	1.1839%	62128	14901	4.2	2			1.0000E-04
68	12.020		4.1327	0.7875%	41327	11215	3.7	2			1.0000E-04
69	12.140	4,4'-DDT	0.0360	0.0069%	221205	92963	2.4	2	7	.1347	1.6277E-07
70	12.215	Endrin Aldehyde	0.0050	0.0010%	28920	9561	3.0	2	7	-.2311	1.7436E-07
71	12.280		3.3122	0.6312%	33122	9211	3.6	2			1.0000E-04
72	12.365		3.5060	0.6681%	35060	6300	5.6	2			1.0000E-04
73	12.480	Endo. sulfate	0.0057	0.0011%	36144	9239	3.9	2	7	.1392	1.5764E-07
74	12.615		12.1827	2.3215%	121827	25816	4.7	2			1.0000E-04
75	12.715		4.9752	0.9481%	49752	15921	3.1	2			1.0000E-04
76	12.805		4.2158	0.8033%	42158	10556	4.0	2			1.0000E-04
77	12.885		37.9248	7.2268%	379248	165641	2.3	3			1.0000E-04
78	13.065		4.8926	0.9323%	48926	13281	3.7	4			1.0000E-04
79	13.205		13.4723	2.5672%	134723	47140	2.9	2			1.0000E-04
80	13.315		4.1601	0.7927%	41601	12939	3.2	2			1.0000E-04
81	13.390		16.0431	3.0571%	160431	62800	2.6	3			1.0000E-04
82	13.495		3.5981	0.6856%	35981	6697	5.4	4			1.0000E-04
83	13.630		7.3548	1.4015%	73548	16351	4.5	2			1.0000E-04
84	13.755	Methoxychlor	0.0072	0.0014%	57975	16019	3.6	2	7	.4091	1.2466E-07
85	13.830	Endrin Ketone	0.0320	0.0061%	73542	19847	3.7	2	7	.2272	4.3502E-07
86	13.975		4.1051	0.7822%	41051	14996	2.7	2			1.0000E-04
87	14.040		5.6231	1.0715%	56231	13604	4.1	2			1.0000E-04
88	14.120		5.1384	0.9791%	51384	15912	3.2	2			1.0000E-04
89	14.175		2.8996	0.5525%	28996	9814	3.0	2			1.0000E-04
90	14.245		5.1340	0.9783%	51340	10312	5.0	2			1.0000E-04
91	14.390		17.2000	3.2775%	172000	68352	2.5	2			1.0000E-04
92	14.505		3.5050	0.6679%	35050	8199	4.3	2			1.0000E-04
93	14.660		3.2012	0.6100%	32012	5390	5.9	2			1.0000E-04
94	14.830		2.9756	0.5670%	29756	9037	3.3	2			1.0000E-04
95	14.895		40.0100	7.6241%	400100	159140	2.5	3			1.0000E-04
96	15.095		1.9521	0.3720%	19521	5596	3.5	4			1.0000E-04
97	15.200		1.3472	0.2567%	13472	4074	3.3	2			1.0000E-04
98	15.285		0.9338	0.1779%	9338	2981	3.1	2			1.0000E-04
99	15.485		0.5743	0.1094%	5743	2277	2.5	1			1.0000E-04
100	15.615		0.7219	0.1376%	7219	3384	2.1	2			1.0000E-04
101	15.680		0.8016	0.1527%	8016	3854	2.1	2			1.0000E-04
102	15.900	~~DCB~~	0.0136	0.0026%	130482	21324	6.1	2	7	-.1399	1.0420E-07
103	15.970	DCB	10.5137	2.0034%	105137	17470	6.0	2			1.0000E-04
104	16.155		4.1508	0.7909%	41508	12484	3.3	2			1.0000E-04
105	16.230		2.2353	0.4259%	22353	8635	2.6	2			1.0000E-04
107	16.365		2.5969	0.4949%	25969	10934	2.4	2			1.0000E-04
108	16.445		11.2014	2.1345%	112014	43893	2.6	2			1.0000E-04

076B97
P2
11.30.93
BMB

1549

Data File = 0:076A95.PTS Printed on 11-30-1993 at 12:05:20
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 100 millivolts

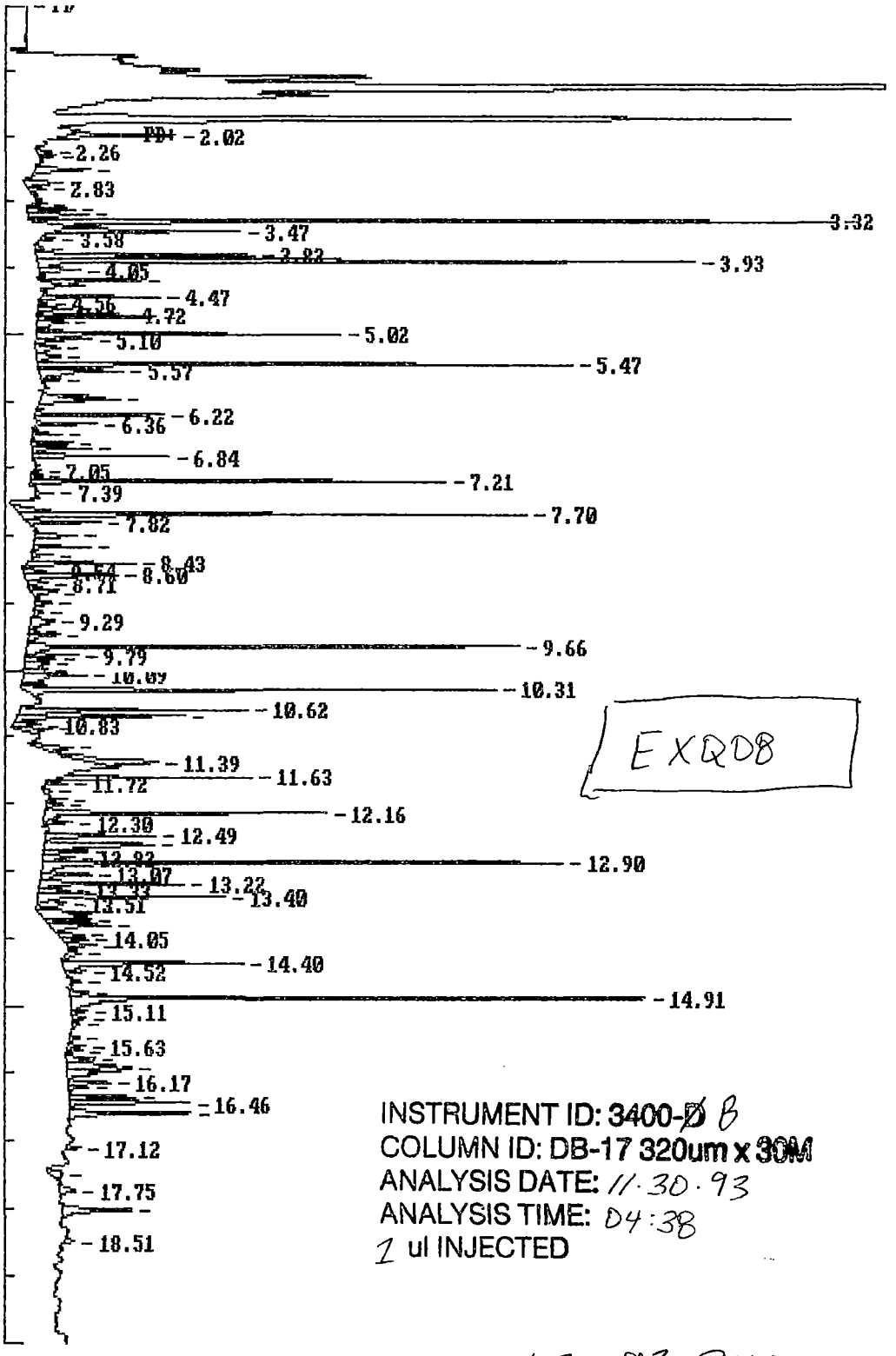


EXDOB

INSTRUMENT ID: 3400-~~C~~ A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11·30·93
ANALYSIS TIME: 04:38
1 ul INJECTED

11-30-93
BMG

Data File = 0:076B95.PTS Printed on 11-30-1993 at 13:30:39
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 180 millivolts



EXQ08

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11·30·93
ANALYSIS TIME: 04:38
1 ul INJECTED

11·30·93 BMG

++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-30-1993 11:43:23 Version 5.1 **********

* Sample Name: EXQ08/23950,,; Data File: 0:076A95 *

* Date: 11-30-1993 04:38:51 Method: 0:076AB 11-30-1993 10:37:36 # 862 *

* Interface: 1 Cycle#: 95 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.310		1.2607	0.5819%	12607	4628	2.7	2			1.0000E-04
3	4.460	TCX	1.6473	0.7604%	56188	30528	1.8	2	3	0	2.9318E-05
4	4.535		20.7990	9.6002%	207990	125734	1.7	3			1.0000E-04
6	4.720		4.8070	2.2188%	48070	25393	1.9	2			1.0000E-04
7	4.790		1.2933	0.5969%	12933	3897	3.3	2			1.0000E-04
8	4.880		0.3673	0.1695%	3673	1927	1.9	2			1.0000E-04
10	5.050		1.8937	0.8741%	18937	6498	2.9	2			1.0000E-04
12	5.200		0.4817	0.2223%	4817	1726	2.8	2			1.0000E-04
13	5.300		1.2092	0.5582%	12092	4711	2.6	2			1.0000E-04
15	5.575		2.4065	1.1108%	24065	14331	1.7	2			1.0000E-04
16	5.675		1.0231	0.4722%	10231	3248	3.2	2			1.0000E-04
17	5.740		13.2112	6.0979%	132112	78342	1.7	2			1.0000E-04
18	5.810		0.5540	0.2557%	5540	2094	2.6	2			1.0000E-04
19	5.895		2.8001	1.2925%	28001	15974	1.8	2			1.0000E-04
20	5.990		0.6130	0.2830%	6130	1975	3.1	2			1.0000E-04
23	6.200		2.1074	0.9727%	21074	8316	2.5	2			1.0000E-04
24	6.300		0.7886	0.3640%	7886	3782	2.1	2			1.0000E-04
25	6.350		8.9122	4.1136%	89122	47455	1.9	2			1.0000E-04
26	6.490		0.3933	0.1815%	3933	1242	3.2	2			1.0000E-04
27	6.550		0.4710	0.2174%	4710	2425	1.9	2			1.0000E-04
29	6.715	gamma-BHC <CRQL	0.7363	0.3398%	9530	3274	2.9	2	3	-.3709	7.7254E-05
30	6.830		0.6062	0.2798%	6062	2041	3.0	2			1.0000E-04
31	6.940		0.9030	0.4168%	9030	5060	1.8	2			1.0000E-04
34	7.200		0.6783	0.3131%	6783	3358	2.0	2			1.0000E-04
35	7.275		0.5996	0.2768%	5996	2593	2.3	2			1.0000E-04
37	7.405		0.9302	0.4294%	9302	6027	1.5	1			1.0000E-04
39	7.575	Aldrin <CRQC	0.5247	0.2422%	7196	2956	2.4	2	3	0	7.2922E-05
41	7.685		0.8735	0.4032%	8735	4439	2.0	2			1.0000E-04
42	7.925		0.4150	0.1915%	4150	855	4.9	2			1.0000E-04
43	8.025		5.7020	2.6319%	57020	31378	1.8	2			1.0000E-04
44	8.130		1.3995	0.6460%	13995	5118	2.7	2	X 12-1-93		1.0000E-04
46	8.295		0.8428	0.3890%	8428	1748	4.8	2			1.0000E-04
48	8.440	delta-BHC Conf-	10.7265	4.9510%	121475	55437	2.2	2	3 BMG	0	8.8302E-05
53	8.790	Hept. epoxide <CRQL	0.5669	0.2617%	6474	2388	2.7	2	3	.1139	8.7570E-05
56	9.000		0.4139	0.1911%	4139	3086	1.3	2			1.0000E-04
57	9.080		11.4121	5.2675%	114121	49176	2.3	3			1.0000E-04
58	9.225	Endosulfan I <CRQL	0.2787	0.1286%	3796	1576	2.4	4	3	-.1623	7.3413E-05
59	9.295		1.9164	0.8846%	19164	7503	2.6	2			1.0000E-04
60	9.340	g. Chlordane <CRQL	1.1426	0.5274%	14492	6463	2.2	2	3		7.8847E-05
62	9.485	a. Chlordane <CRQL	1.6437	0.7587%	20758	7566	2.7	2	3	.0527	7.9185E-05
63	9.545		1.0842	0.5004%	10842	4796	2.3	2			1.0000E-04
64	9.590		2.9610	1.3921%	29610	15927	2.4	2			1.0000E-04

1553

65	9.680	4,4'-DDE Conf+	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]
66	9.715		1.1576	0.5343%	11576	3716	3.1	2			1.0000E-04
67	9.810		0.7012	0.3236%	7012	4097	1.7	2			1.0000E-04
68	9.855	Dieldrin <CRQL	1.4630	0.6753%	11321	5779	2.0	2	3	0	1.2923E-04
69	9.990		0.5123	0.2365%	5123	2034	2.5	1			1.0000E-04
70	10.100		0.8865	0.4092%	8865	3748	2.4	2			1.0000E-04
71	10.170	Endrin < CRQL	0.8075	0.3727%	7988	4487	1.8	2	3	-.2941	1.0109E-04
72	10.240		1.0022	0.4626%	10022	4836	2.1	2			1.0000E-04
73	10.300		0.4683	0.2161%	4683	1512	3.1	2			1.0000E-04
74	10.420		1.8387	0.8487%	18387	7458	2.5	2			1.0000E-04
75	10.485		0.3658	0.1689%	3658	1997	1.8	2			1.0000E-04
77	10.620		0.4643	0.2143%	4643	2685	1.7	2			1.0000E-04
78	10.670		0.3643	0.1682%	3643	1728	2.1	2			1.0000E-04
79	10.720		0.7119	0.3286%	7119	3446	2.1	2			1.0000E-04
81	10.835		0.5451	0.2516%	5451	1367	4.0	2			1.0000E-04
82	10.900		0.4871	0.2248%	4871	2385	2.0	2			1.0000E-04
83	10.950	4,4'-DDD Conf+	3.6209	1.6713%	37417	21528	1.7	2	3	0	9.6772E-05
84	11.050		1.1856	0.5472%	11856	3239	3.7	2			1.0000E-04
86	11.190		0.5810	0.2682%	5810	2511	2.3	2			1.0000E-04
87	11.245	4,4'-DDT Conf+	5.4126	2.4983%	62961	34207	1.8	2	3	0	8.5967E-05
88	11.335		0.7201	0.3324%	7201	3142	2.3	2			1.0000E-04
89	11.420		0.4553	0.2102%	4554	1472	3.1	2			1.0000E-04
90	11.480		2.6239	1.2111%	26239	13328	2.0	2			1.0000E-04
91	11.630	Endrin Aldehyde < CRQL	9.9656	4.5998%	107465	53359	2.0	2	3	-.1716	9.2734E-05
92	11.730		0.6990	0.3226%	6990	2748	2.5	2			1.0000E-04
93	11.800		1.0405	0.4803%	10405	4771	2.2	2			1.0000E-04
94	11.840		0.4268	0.1970%	4268	2215	1.9	2			1.0000E-04
95	11.950		3.3784	1.5594%	33784	15533	2.2	1			1.0000E-04
97	12.145	Endo. sulfate < CRQL	0.8787	0.4056%	7873	3446	2.3	2	3	-.2873	1.1160E-04
98	12.230		3.2084	1.4809%	32084	15502	2.1	2			1.0000E-04
99	12.435		2.8330	1.3076%	28330	10486	2.7	2			1.0000E-04
100	12.550		0.7568	0.3493%	7568	4275	1.8	2			1.0000E-04
101	12.595		1.0074	0.4650%	10074	4631	2.2	2			1.0000E-04
102	12.690		1.1779	0.5437%	11779	3402	3.5	2			1.0000E-04
104	12.835	Endrin Ketone < CRQL	0.6713	0.3098%	14999	5865	2.6	2	3	.2734	4.4753E-05
105	12.905		5.9119	2.7288%	59119	23642	2.5	2			1.0000E-04
106	13.075		0.4165	0.1922%	4165	1260	3.3	2			1.0000E-04
110	13.395		13.8783	6.4058%	138783	63052	2.2	2			1.0000E-04
111	13.495		1.2692	0.5858%	12692	4576	2.8	2			1.0000E-04
112	13.590		0.8367	0.3862%	8367	3139	2.7	2			1.0000E-04
113	13.675		0.3825	0.1766%	3825	1306	2.9	2			1.0000E-04
114	13.735		0.9611	0.4436%	9611	3152	3.0	2			1.0000E-04
115	13.800		0.6659	0.3074%	6659	1759	3.8	2			1.0000E-04
116	13.900		0.3548	0.1638%	3548	1268	2.8	2			1.0000E-04
118	14.010		0.5088	0.2349%	5088	1649	3.1	2			1.0000E-04
119	14.100		0.6359	0.2935%	6359	2265	2.8	2			1.0000E-04
120	14.205		0.4486	0.2071%	4486	2329	1.9	2			1.0000E-04
121	14.265		1.0468	0.4832%	10468	5194	2.0	2			1.0000E-04
122	14.340		3.2299	1.4908%	32299	10858	3.0	2			1.0000E-04
123	14.445	DCB	1.4890	0.6873%	15082	8943	1.7	2	3	-.1037	9.8726E-05
124	14.540		0.8772	0.4049%	8772	3526	2.5	2			1.0000E-04
125	14.590		5.8266	2.6894%	58266	21586	2.7	2			1.0000E-04
126	14.785		4.0650	1.8763%	40650	17931	2.3	2			1.0000E-04
127	14.855		0.7544	0.3482%	7544	2638	2.9	2			1.0000E-04
128	14.935		0.4873	0.2249%	4873	1218	4.0	2			1.0000E-04
130	15.155		0.6742	0.3112%	6742	3075	2.2	1			1.0000E-04

TOTAL AMOUNT = 216.6510

D76A95

P2
11-30-93
BMG

1554

Areas, times, and heights stored in: 0:076B94.ATB

++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-30-1993 13:36:16 Version 5.1 **********

* Sample Name: EXQ08/23950,,; Data File: 0:076B95 *

* Date: 11-30-1993 04:38:59 Method: 0:076BB 11-30-1993 13:34:48 # 888 *

* Interface: 2 Cycle#: 95 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 5 Threshold: 50 Area Threshold: 500 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.555		0.4903	0.1591%	4903	1950	2.5	2			1.0000E-04
2	4.640		1.7954	0.5825%	17954	7122	2.5	2			1.0000E-04
3	4.715		3.0039	0.9746%	30039	16426	1.8	2			1.0000E-04
4	4.765		4.8670	1.5790%	48670	24398	2.0	2			1.0000E-04
5	4.835		2.2465	0.7288%	22465	6141	3.7	2			1.0000E-04
6	4.990		1.5450	0.5013%	15450	5784	2.7	2			1.0000E-04
7	5.015	TCX	0.0161	0.0052%	118711	62098	1.9	2	7	0	1.3549E-07
8	5.095		2.8881	0.9370%	28881	11408	2.5	2			1.0000E-04
9	5.230		1.9664	0.6380%	19664	4863	4.0	2			1.0000E-04
10	5.360		1.9023	0.6172%	19023	4794	4.0	2			1.0000E-04
11	5.470		18.8128	6.1035%	188128	109720	1.7	2			1.0000E-04
12	5.570		5.6905	1.8462%	56905	17286	3.3	3			1.0000E-04
13	5.700		0.6362	0.2064%	6362	3581	1.8	4			1.0000E-04
14	5.990		7.0759	2.2957%	70759	16392	4.3	2			1.0000E-04
15	6.220		4.4689	1.4499%	44689	26450	1.7	2			1.0000E-04
16	6.355		2.4811	0.8049%	24811	12644	2.0	1			1.0000E-04
17	6.515		1.0033	0.3255%	10033	6018	1.7	1			1.0000E-04
18	6.640		1.6165	0.5244%	16165	8390	1.9	2			1.0000E-04
19	6.725		2.7062	0.8780%	27062	12181	2.2	2			1.0000E-04
20	6.835		4.7101	1.5281%	47101	27898	1.7	2			1.0000E-04
22	7.125		0.5576	0.1809%	5576	2335	2.4	2			1.0000E-04
23	7.205	gamma-BHC	0.0138	0.0045%	150051	85145	1.8	2	7	.1692	9.1880E-08
24	7.385	beta-BHC	0.0016	0.0005%	5885	3717	1.6	1	7	.1675	2.7691E-07
25	7.635		2.2117	0.7175%	22117	6584	3.4	2			1.0000E-04
26	7.695		19.5975	6.3581%	195975	103628	1.9	2			1.0000E-04
27	7.815	Heptachlor	0.0034	0.0011%	30568	14551	2.1	2	7	.2921	1.1145E-07
28	8.010		2.3827	0.7730%	23827	8709	2.7	1			1.0000E-04
29	8.185		2.1176	0.6870%	21176	11979	1.8	1			1.0000E-04
30	8.295		0.8325	0.2701%	8325	4471	1.9	1			1.0000E-04
31	8.425		4.6385	1.5049%	46385	22318	2.1	1			1.0000E-04
32	8.535		1.0555	0.3425%	10555	4441	2.4	2			1.0000E-04
33	8.595		6.8930	2.2363%	68930	18973	3.6	2			1.0000E-04
34	8.710		1.2052	0.3910%	12052	4150	2.9	2			1.0000E-04
35	8.785		0.4573	0.1484%	4573	2611	1.8	2			1.0000E-04
36	8.855		1.6415	0.5326%	16415	5015	3.3	1			1.0000E-04
37	9.005		1.0753	0.3489%	10753	3454	3.1	1			1.0000E-04
38	9.145		0.3590	0.1165%	3590	1797	2.0	1			1.0000E-04
39	9.285		2.8373	0.9205%	28373	5061	5.6	2			1.0000E-04
40	9.435		0.5386	0.1747%	5386	2109	2.6	2			1.0000E-04
41	9.485	Hept. epoxide	0.0022	0.0007%	21179	6464	3.3	2	7	.1524	1.0548E-07

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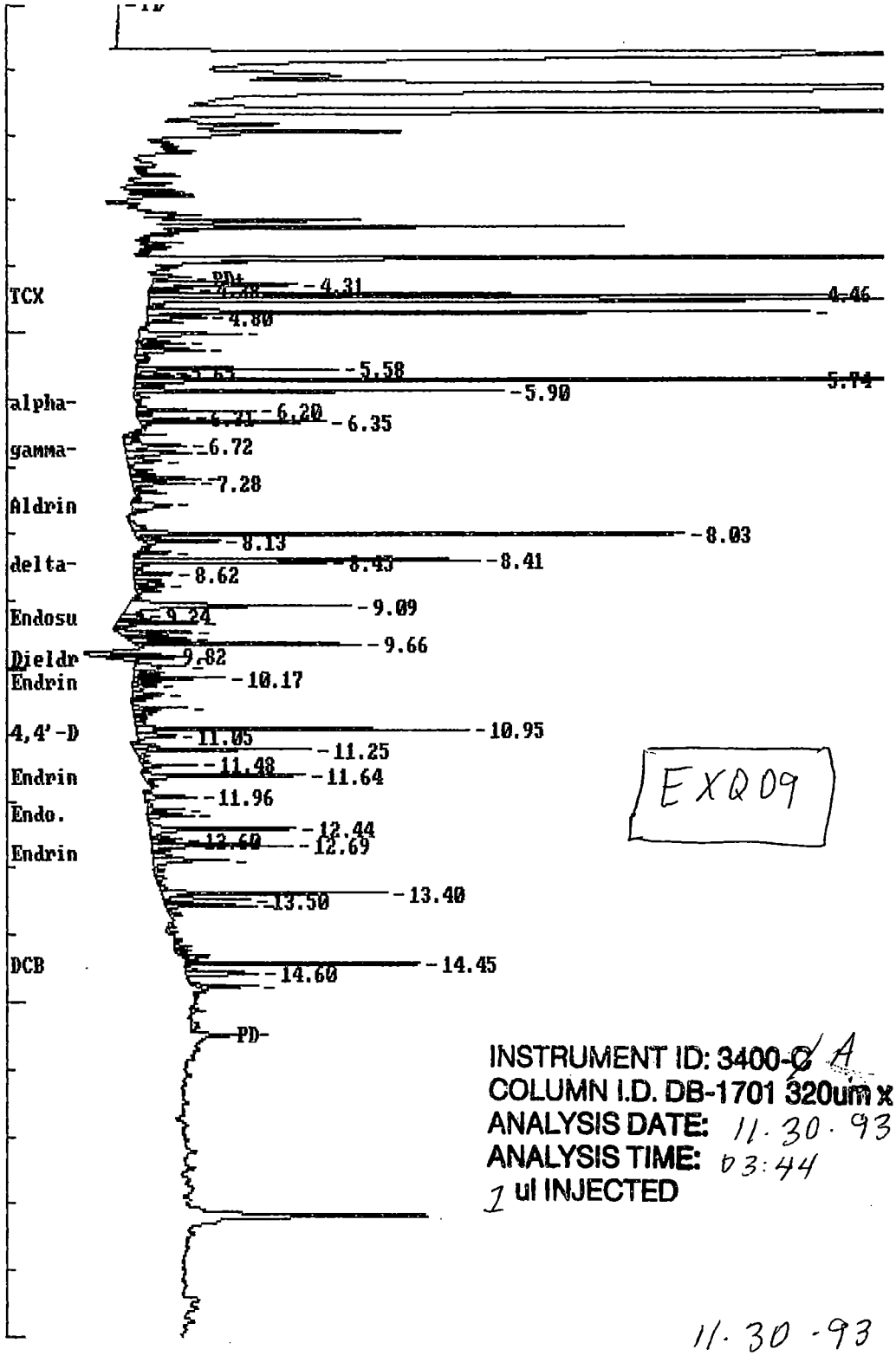
43	9.785	g. Chlordane	0.0023	0.0007%	24898	10857	2.3	2	7	.1508	9.2400E-08
44	9.840		1.8989	0.6161%	18989	6470	2.9	2			1.0000E-04
45	9.905		2.0249	0.6569%	20249	5125	4.0	2			1.0000E-04
46	10.000		1.9600	0.6359%	19600	5051	3.9	2			1.0000E-04
47	10.085	a. Chlordane	0.0050	0.0016%	55094	13021	4.2	2	7	.0500	9.1302E-08
48	10.305		19.4313	6.3042%	194313	96113	2.0	1			1.0000E-04
49	10.615	4,4'-DDE	0.0112	0.0036%	100442	46642	2.2	2	7	0	1.1134E-07
50	10.695	Dieldrin	0.0096	0.0031%	96628	34400	2.8	2	7	.2402	9.9731E-08
51	10.830		1.8924	0.6140%	18924	5737	3.3	2			1.0000E-04
52	10.895		1.7794	0.5773%	17795	6316	2.8	1			1.0000E-04
53	11.170		1.9856	0.6442%	19856	5950	3.3	1			1.0000E-04
54	11.385	Endrin	0.0069	0.0022%	57129	12513	4.6	1	7	.4969	1.2132E-07
55	11.625	4,4'-DDD	0.0096	0.0031%	71419	39704	1.8	1	7	0	1.3477E-07
56	11.720		0.8495	0.2756%	8495	4586	1.9	1			1.0000E-04
57	11.830		0.4591	0.1489%	4591	1761	2.6	1			1.0000E-04
58	11.945		0.6338	0.2056%	6338	3665	1.7	1			1.0000E-04
59	12.030		0.9201	0.2985%	9201	3473	2.6	2			1.0000E-04
60	12.155	4,4'-DDT	0.0205	0.0066%	125847	57477	2.2	2	7	0	1.6277E-07
61	12.295	Endrin Aldehyde	0.0025	0.0008%	14260	5791	2.5	2	7	.2219	1.7436E-07
62	12.490	Endo. sulfate	0.0077	0.0025%	49155	22708	2.2	2	7	0	1.5764E-07
63	12.625		9.0577	2.9386%	90577	22600	4.0	2			1.0000E-04
64	12.725		2.6311	0.8536%	26311	9210	2.9	2			1.0000E-04
65	12.815		2.2184	0.7197%	22184	6573	3.4	2			1.0000E-04
66	12.895		22.9171	7.4351%	229171	106967	2.1	2			1.0000E-04
67	13.070		3.3359	1.0823%	33359	10453	3.2	2			1.0000E-04
68	13.215		8.2050	2.6620%	82050	29487	2.8	2			1.0000E-04
69	13.325		2.1399	0.6943%	21399	6480	3.3	2			1.0000E-04
70	13.400		9.6987	3.1466%	96987	38052	2.5	3			1.0000E-04
71	13.510		2.6931	0.8737%	26931	5602	4.8	4			1.0000E-04
72	13.640		5.1666	1.6762%	51666	11355	4.6	2			1.0000E-04
73	13.760	Methoxychlor	0.0038	0.0012%	30207	9161	3.3	2	7	.2454	1.2466E-07
74	13.840	Endrin Ketone	0.0153	0.0050%	35173	12219	2.9	2	7	0	4.3502E-07
75	13.985		0.8671	0.2813%	8671	4880	1.8	2			1.0000E-04
76	14.050		1.8775	0.6091%	18775	4954	3.8	2			1.0000E-04
77	14.130		1.1761	0.3816%	11761	5575	2.1	2			1.0000E-04
78	14.255		1.1343	0.3680%	11343	3067	3.7	1			1.0000E-04
79	14.400		9.1534	2.9697%	91534	36614	2.5	2			1.0000E-04
80	14.515		1.4912	0.4838%	14912	4166	3.6	2			1.0000E-04
81	14.670		0.4106	0.1332%	4106	2085	2.0	1			1.0000E-04
82	14.840		1.0398	0.3374%	10398	3837	2.7	2			1.0000E-04
83	14.905		27.4302	8.8993%	274302	117775	2.3	2			1.0000E-04
84	15.105		1.0183	0.3304%	10183	3205	3.2	2			1.0000E-04
85	15.210		0.8119	0.2634%	8119	2804	2.9	2			1.0000E-04
86	15.305		0.4356	0.1413%	4356	1515	2.9	2			1.0000E-04
87	15.495		0.6837	0.2218%	6837	2112	3.2	2			1.0000E-04
88	15.630		0.9051	0.2936%	9051	3677	2.5	2			1.0000E-04
89	15.690		0.7381	0.2394%	7381	3188	2.3	2			1.0000E-04
90	15.805		1.8139	0.5885%	18139	5855	3.1	2			1.0000E-04
91	15.910		3.5133	1.1398%	35133	9745	3.6	2			1.0000E-04
92	15.965	DCB	0.0071	0.0023%	68029	13185	5.2	2	7	0	1.0420E-07
93	16.170		2.6227	0.8509%	26227	8626	3.0	2			1.0000E-04
94	16.240		1.0784	0.3499%	10784	4062	2.7	2			1.0000E-04
95	16.375		3.0788	0.9989%	30788	13056	2.4	2			1.0000E-04
96	16.455		5.9446	1.9286%	59446	23384	2.5	2			1.0000E-04

TOTAL AMOUNT = 308.2293

076B95
P2
11.30.93
BMB

Areas, times, and heights stored in: 0:076A93.ATB
Data File = 0:076A93.PTS Printed on 11-30-1993 at 11:39:19
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 40 millivolts

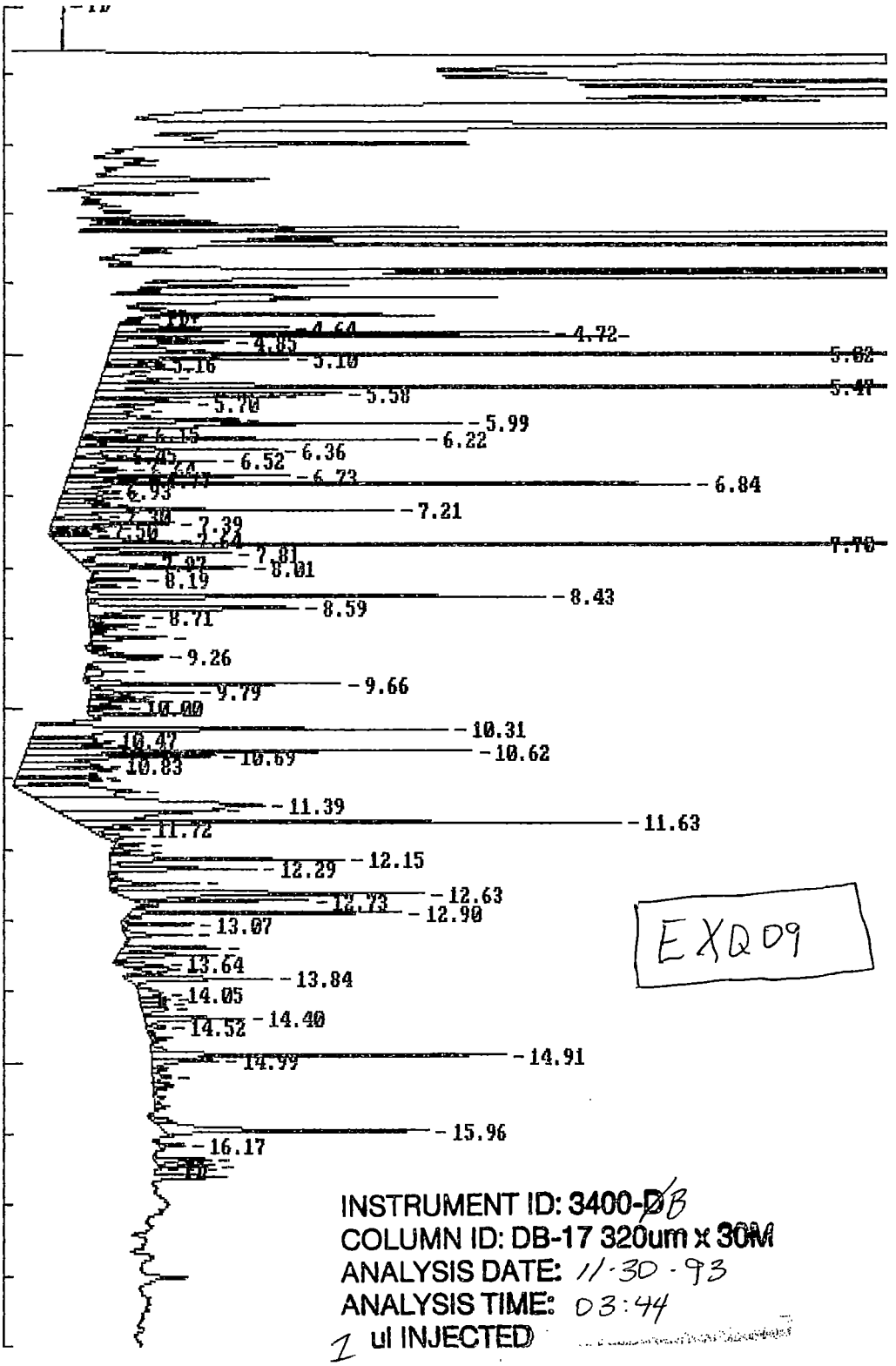


EXQ09

INSTRUMENT ID: 3400-~~C~~ A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11.30.93
ANALYSIS TIME: 03:44
1 ul INJECTED

11.30.93
BMG

Areas, times, and heights stored in: 0:076B93.ATB
Data File = 0:076B93.PTS Printed on 11-30-1993 at 12:52:12
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 50 millivolts



11-30-93
BMG

EXTERNAL STANDARD TABLE

********** 11-30-1993 11:38:17 Version 5.1 **********

* Sample Name: EXQ09/23951,,; Data File: 0:076A93 *
* Date: 11-30-1993 03:44:45 Method: 0:076AB 11-30-1993 10:37:36 # 862 *
* Interface: 1 Cycle#: 93 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.310		2.1872	2.1139%	21872	7206	3.0	2			1.0000E-04
2	4.375		0.3727	0.3602%	3727	2099	1.8	2			1.0000E-04
3	4.460	TCX	1.8167	1.7558%	61967	33710	1.8	2	3	0	2.9318E-05
4	4.535		19.8017	19.1381%	198017	118714	1.7	3			1.0000E-04
6	4.720		6.1990	5.9912%	61990	32704	1.9	2			1.0000E-04
7	4.800		0.8709	0.8417%	8709	2883	3.0	2			1.0000E-04
9	5.050		1.5076	1.4571%	15076	5061	3.0	2			1.0000E-04
11	5.195		0.5834	0.5638%	5834	2355	2.5	2			1.0000E-04
12	5.300		1.0552	1.0198%	10552	3399	3.1	2			1.0000E-04
15	5.575		1.6859	1.6294%	16859	9990	1.7	2			1.0000E-04
16	5.645		0.3579	0.3459%	3579	1641	2.2	2			1.0000E-04
17	5.680		0.3901	0.3770%	3901	1884	2.1	2			1.0000E-04
18	5.740		10.6774	10.3196%	106774	63691	1.7	2			1.0000E-04
20	5.895		3.0571	2.9547%	30571	18345	1.7	2			1.0000E-04
24	6.200		0.9936	0.9603%	9936	5811	1.7	2	12-1-93		1.0000E-04
25	6.305		0.4713	0.4555%	4713	2446	1.9	2			1.0000E-04
26	6.350		1.7076	1.6503%	17076	9119	1.9	2	BMG		1.0000E-04
30	6.715	gamma-BHC <CRQL	0.8479	0.8195%	10975	2999	3.7	2	3	-.3709	7.7254E-05
31	6.825		0.9792	0.9464%	9792	3156	3.1	2			1.0000E-04
32	6.940		0.5568	0.5381%	5568	1622	3.4	2			1.0000E-04
35	7.200		0.6318	0.6106%	6318	3411	1.9	2			1.0000E-04
36	7.275		0.6591	0.6370%	6591	3014	2.2	2			1.0000E-04
40	7.590	Aldrin Conf-	0.6131	0.5925%	8407	1922	4.4	2	3	.1319	7.2922E-05
43	8.025		4.9078	4.7433%	49078	27155	1.8	2			1.0000E-04
45	8.130		0.7043	0.6807%	7043	3724	1.9	2			1.0000E-04
47	8.300		0.3636	0.3514%	3636	1667	2.2	2			1.0000E-04
49	8.410		2.8910	2.7941%	28910	17122	1.7	2			1.0000E-04
50	8.445	delta-BHC Conf-	1.6895	1.6328%	19133	9505	2.0	3	3	0	8.8302E-05
52	8.615		0.3753	0.3627%	3753	1891	2.0	2			1.0000E-04
54	8.785	Hept. epoxide <CRQL	0.3991	0.3857%	4557	1396	3.3	2	3	0	8.7570E-05
57	9.085		3.2706	3.1610%	32706	10931	3.0	2			1.0000E-04
58	9.235	Endosulfan I Conf-	0.2641	0.2552%	3597	994	3.6	2	3	0	7.3413E-05
59	9.295		0.3708	0.3584%	3708	1570	2.4	2			1.0000E-04
60	9.345	g. Chlordane <CRQL	0.6756	0.6530%	8569	4021	2.1	2	3	0	7.8847E-05
62	9.485	a. Chlordane <CRQL	0.6692	0.6468%	8451	3598	2.3	2	3	.0527	7.9185E-05
63	9.545		0.4260	0.4118%	4260	2113	2.0	2			1.0000E-04
64	9.595		0.8793	0.8499%	8793	2941	3.0	2			1.0000E-04
65	9.660	4,4'-DDE <CRQL	2.0227	1.9549%	18322	11079	1.7	2	3		1.1040E-04
66	9.815		0.5485	0.5301%	5485	3042	1.8	2		1560	1.0000E-04
67	9.860	Dieldrin <CRQL	1.0512	1.0159%	8134	3531	2.3	2	3	0	1.2923E-04
68	9.990		0.4733	0.4574%	4733	2528	1.9	1			1.0000E-04
70	10.170	Endrin <CRQL	0.7595	0.7338%	7594	4529	1.7	2	3	-.2941	1.0100E-04

73	10.420		0.4316	0.4172%	4316	1572	2.7	2			1.0000E-04
75	10.620	confirm +	0.4624	0.4469%	4624	2649	1.7	2			1.0000E-04
80	10.950	4,4'-DDD ~~<CRQL~~	2.8974	2.8003%	29940	16432	1.8	2	3	0	9.6772E-05
81	11.045		0.6778	0.6551%	6778	1885	3.6	2			1.0000E-04
83	11.245	4,4'-DDT < CRQL	1.5255	1.4744%	17745	8717	2.0	3	3	0	8.5967E-05
86	11.480		0.4493	0.4343%	4493	2658	1.7	1			1.0000E-04
87	11.635	Endrin Aldehyde <CRQL	1.5796	1.5267%	17034	7952	2.1	2	3	-.1287	9.2734E-05
90	11.955		0.6638	0.6415%	6638	2572	2.6	1			1.0000E-04
92	12.145	Endo. sulfate <CRQL	0.4232	0.4090%	3792	1792	2.1	2	3	-.2873	1.1160E-04
93	12.235		0.4685	0.4528%	4685	2269	2.1	1			1.0000E-04
94	12.435		1.9199	1.8555%	19199	7188	2.7	2			1.0000E-04
96	12.600	12-03-93	0.3703	0.3579%	3703	1504	2.5	2			1.0000E-04
97	12.685	DB	1.5448	1.4930%	15448	6926	2.2	2			1.0000E-04
100	12.905		1.0579	1.0224%	10579	3747	2.8	2			1.0000E-04
104	13.395		2.3968	2.3165%	23968	11137	2.2	2			1.0000E-04
105	13.495		0.8611	0.8322%	8611	4268	2.0	2			1.0000E-04
106	13.590		0.9758	0.9431%	9758	4498	2.2	2			1.0000E-04
114	14.445	DCB	1.9402	1.8752%	19652	11590	1.7	1	3	-.1037	9.8726E-05
116	14.600		1.0984	1.0616%	10984	3587	3.1	2			1.0000E-04
117	14.785		0.6094	0.5889%	6094	2949	2.1	1			1.0000E-04

TOTAL AMOUNT = 103.4674

D76A93

P2
11-30-93

BMG

++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-30-1993 12:50:32 Version 5.1 **********

* Sample Name: EX009/23951,,; Data File: 0:076B93 *

* Date: 11-30-1993 03:44:52 Method: 0:076BB 11-30-1993 11:14:42 # 886 *

* Interface: 2 Cycle#: 93 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.640		2.0584	1.1100%	20584	9690	2.1	2			1.0000E-04
3	4.715		4.4730	2.4121%	44730	24706	1.8	2			1.0000E-04
4	4.765		5.5637	3.0003%	55637	28317	2.0	2			1.0000E-04
5	4.850		2.4055	1.2972%	24055	6589	3.7	2			1.0000E-04
6	4.970		1.3217	0.7127%	13217	5411	2.4	2			1.0000E-04
7	5.015	TCX	0.0182	0.0098%	134535	68584	2.0	3	7	0	1.3549E-07
8	5.095		2.0712	1.1169%	20712	9813	2.1	4			1.0000E-04
9	5.155		0.5437	0.2932%	5437	2353	2.3	2			1.0000E-04
10	5.230		1.8729	1.0100%	18729	4075	4.6	2			1.0000E-04
11	5.365		1.9201	1.0355%	19201	4000	4.8	2			1.0000E-04
12	5.470		16.0072	8.6322%	160072	90052	1.8	2			1.0000E-04
13	5.575		3.4215	1.8451%	34215	14019	2.4	2			1.0000E-04
14	5.620		2.6132	1.4092%	26132	10485	2.5	2			1.0000E-04
15	5.700		1.8203	0.9816%	18203	5542	3.3	2			1.0000E-04
16	5.795		1.7102	0.9222%	17102	3036	5.6	2			1.0000E-04
17	5.880		0.5258	0.2835%	5258	2505	2.1	2			1.0000E-04
18	5.945		2.4013	1.2950%	24013	8722	2.8	2			1.0000E-04
19	5.990		7.1964	3.8808%	71964	21412	3.4	3			1.0000E-04
20	6.150		0.6045	0.3260%	6045	2504	2.4	4			1.0000E-04
21	6.180		0.6745	0.3638%	6745	3777	1.8	4			1.0000E-04
22	6.220		3.9712	2.1416%	39712	19266	2.1	3			1.0000E-04
24	6.355		2.8380	1.5304%	28380	11416	2.5	3			1.0000E-04
25	6.450	alpha-BHC	0.0004	0.0002%	5217	1768	3.0	4	7	.2551	7.3132E-08
26	6.515		2.1119	1.1389%	21119	8114	2.6	2			1.0000E-04
27	6.640		1.0554	0.5691%	10554	3200	3.3	2			1.0000E-04
28	6.725		2.6110	1.4081%	26110	12596	2.1	2			1.0000E-04
29	6.765		1.0756	0.5800%	10756	4245	2.5	2			1.0000E-04
30	6.835		6.8188	3.6772%	68188	35606	1.9	3			1.0000E-04
31	6.925		0.5688	0.3067%	5688	2079	2.7	4			1.0000E-04
32	6.975		1.1262	0.6073%	11262	3267	3.4	2			1.0000E-04
33	7.050		1.0891	0.5873%	10891	3550	3.1	2			1.0000E-04
34	7.125		1.1456	0.6178%	11456	2923	3.9	2			1.0000E-04
35	7.205	gamma-BHC	0.0039	0.0021%	42257	19182	2.2	3	7	.1692	9.1880E-08
36	7.300		0.8057	0.4345%	8057	2515	3.2	4			1.0000E-04
37	7.385	beta-BHC	0.0069	0.0037%	24769	6905	3.6	2	7	.1675	2.7691E-07
38	7.450		0.9115	0.4916%	9115	3503	2.6	2			1.0000E-04
39	7.495		0.4885	0.2634%	4885	2229	2.2	2			1.0000E-04
40	7.550		0.4087	0.2204%	4087	2298	1.8	2			1.0000E-04
41	7.635		1.9303	1.0409%	19303	6547	2.9	2			1.0000E-04
42	7.695		17.3181	9.3392%	173181	91511	1.9	2			1.0000E-04
43	7.810	Heptachlor	0.0027	0.0015%	24525	9033	2.7	3	7	.2280	1.1145E-07
45	7.870		0.5602	0.3021%	5602	2090	1.9	2			1.0000E-04

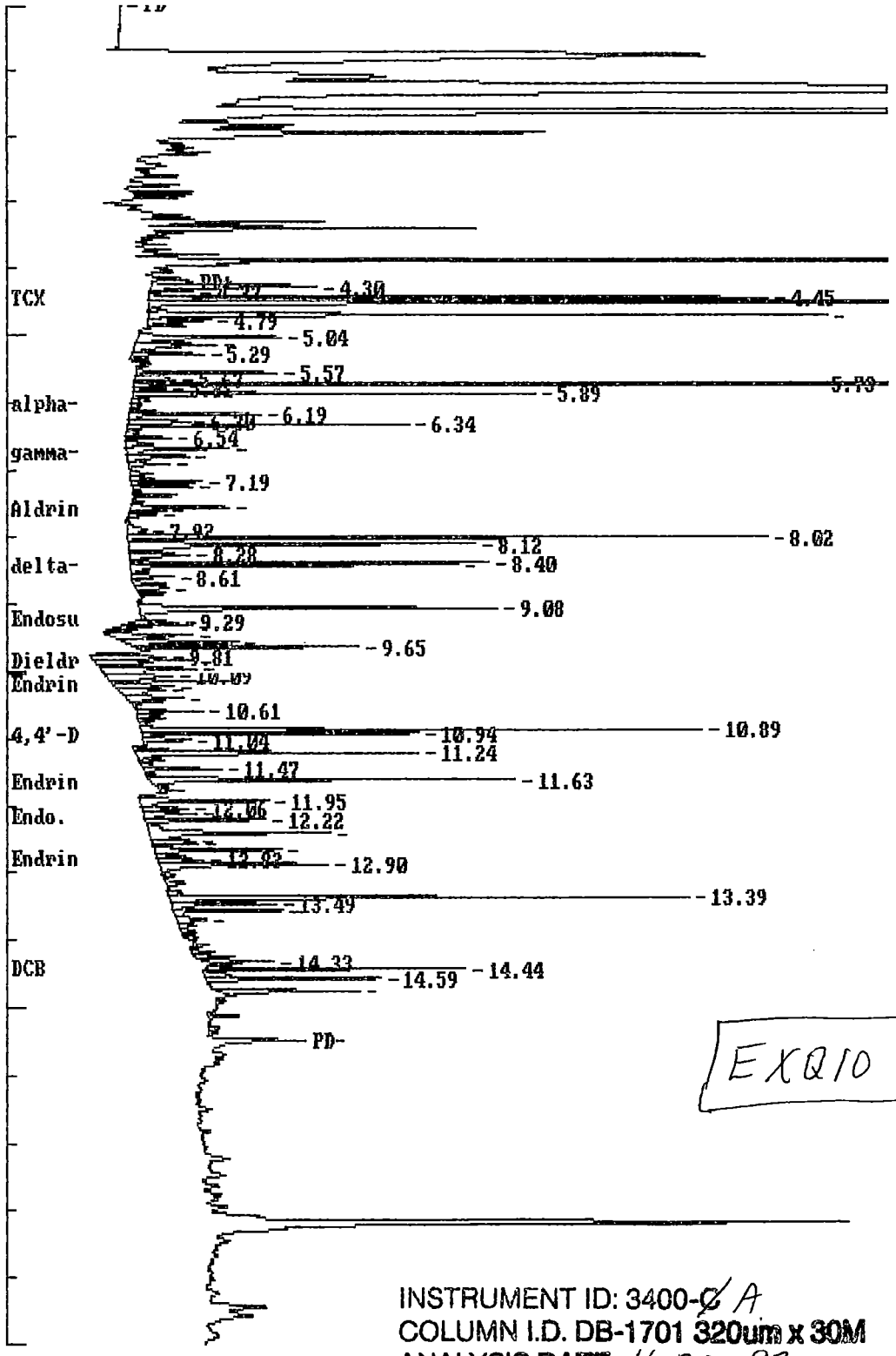
1562

46	8.010		2.3023	1.3923%	23023	9023	2.5	2			1.0000E-04
47	8.185		0.4302	0.2320%	4302	2859	1.5	1			1.0000E-04
48	8.290		0.5646	0.3045%	5646	1843	3.1	1			1.0000E-04
49	8.425		5.4221	2.9240%	54221	26149	2.1	2			1.0000E-04
51	8.585		4.1762	2.2521%	41762	11940	3.5	2			1.0000E-04
52	8.710		0.7857	0.4237%	7857	3159	2.5	2			1.0000E-04
54	8.835		0.4774	0.2574%	4774	2736	1.7	2			1.0000E-04
55	8.870		0.3590	0.1936%	3590	1675	2.1	2			1.0000E-04
57	9.000		0.9532	0.5140%	9532	4314	2.2	2			1.0000E-04
61	9.260		0.3536	0.1907%	3536	2414	1.5	2			1.0000E-04
64	9.485	Hept. epoxide	0.0005	0.0003%	4978	2351	2.1	2	7	.1524	1.0548E-07
66	9.660		2.5731	1.3876%	25731	14112	1.8	1			1.0000E-04
67	9.785	g. Chlordane	0.0010	0.0005%	10723	5782	1.9	2	7	.1508	9.2400E-08
68	9.840		0.5895	0.3179%	5895	2542	2.3	2			1.0000E-04
69	9.905		0.9526	0.5137%	9526	3694	2.6	2			1.0000E-04
70	10.000		0.4654	0.2510%	4654	1911	2.4	2			1.0000E-04
71	10.090	a. Chlordane	0.0008	0.0004%	8502	4955	1.7	1	7	0	9.1302E-08
73	10.310		7.3362	3.9562%	73362	23537	3.1	2			1.0000E-04
74	10.465		1.3081	0.7054%	13081	3781	3.5	2			1.0000E-04
75	10.515		1.7759	0.9577%	17759	4615	3.8	2			1.0000E-04
76	10.620	4,4'-DDE	0.0065	0.0035%	57946	25358	2.3	2	7	.0996	1.1134E-07
77	10.690	Dieldrin	0.0044	0.0024%	44611	10873	4.1	2	7	.1934	9.9731E-08
78	10.830		2.2213	1.1979%	22213	4639	4.8	2			1.0000E-04
79	10.885		2.5930	1.3983%	25930	5601	4.6	2			1.0000E-04
80	10.990		1.4780	0.7971%	14780	4653	3.2	2			1.0000E-04
81	11.035		2.0954	1.1300%	20954	4937	4.2	2			1.0000E-04
82	11.195		4.3893	2.3670%	43893	6419	6.8	2			1.0000E-04
83	11.385	Endrin	0.0113	0.0061%	93470	12112	7.7	2	7	.4969	1.2132E-07
84	11.450		5.5123	2.9726%	55123	9116	6.0	2			1.0000E-04
85	11.625	4,4'-DDD	0.0084	0.0045%	62278	30757	2.0	2	7	0	1.3477E-07
86	11.715		0.8007	0.4318%	8007	2240	3.6	2			1.0000E-04
87	11.830		0.3959	0.2135%	3959	2004	2.0	1			1.0000E-04
88	11.945		0.3589	0.1936%	3589	1692	2.1	2			1.0000E-04
89	12.030		0.3829	0.2065%	3829	1810	2.1	2			1.0000E-04
90	12.150	4,4'-DDT	0.0056	0.0030%	34494	13345	2.6	2	7	0	1.6277E-07
91	12.290	Endrin Aldehyde	0.0034	0.0018%	19360	8306	2.3	2	7	.1812	1.7436E-07
94	12.490	Endo. sulfate	0.0017	0.0009%	11091	5048	2.2	2	7	0	1.5764E-07
95	12.625		5.3236	2.8709%	53236	17300	3.1	2			1.0000E-04
96	12.725		2.0543	1.1078%	20543	9738	2.1	2			1.0000E-04
98	12.895		3.0706	1.6559%	30706	15412	2.0	2			1.0000E-04
100	13.065		0.7472	0.4029%	7472	3851	1.9	1			1.0000E-04
101	13.215		0.8509	0.4589%	8509	3757	2.3	1			1.0000E-04
102	13.405		1.3294	0.7169%	13294	5575	2.4	2			1.0000E-04
103	13.510		1.4998	0.8088%	14998	5628	2.7	2			1.0000E-04
104	13.640		0.4700	0.2534%	4700	2082	2.3	2			1.0000E-04
105	13.710	Methoxychlor	0.0007	0.0004%	5760	1824	3.2	2	7	-.1188	1.2466E-07
106	13.840	Endrin Ketone	0.0085	0.0046%	19438	8166	2.4	1	7	0	4.3502E-07
107	14.050		0.7126	0.3843%	7126	1373	5.2	2			1.0000E-04
108	14.130		0.6333	0.3415%	6333	1678	3.8	2			1.0000E-04
109	14.185		0.4191	0.2260%	4191	1402	3.0	2			1.0000E-04
110	14.270		0.7208	0.3887%	7208	1465	4.9	2			1.0000E-04
111	14.400		1.4465	0.7800%	14465	5622	2.6	2			1.0000E-04
112	14.515		0.3723	0.2008%	3723	1036	3.6	2			1.0000E-04
116	14.905		4.6246	2.4939%	46246	20225	2.3	2			1.0000E-04
117	14.985		1.3085	0.7056%	13085	3754	3.5	2			1.0000E-04
119	15.215		0.4033	0.2175%	4033	1018	4.0	2			1.0000E-04
125	15.960	DCB	0.0047	0.0025%	44943	14884	3.0	2	7	0	1.0420E-07
126	16.170		0.3937	0.2123%	3937	1466	2.7	1			1.0000E-04
127	16.375		0.8335	0.4495%	8335	3133	2.7	2			1.0000E-04
128	16.455		0.7591	0.4093%	7591	3142	2.4	2			1.0000E-04

D76B93
P2
11-30-93
BMG

TOTAL AMOUNT = 185.4356

Areas, times, and heights stored in: 0:076A94.ATB
Data File = 0:076A94.PTS Printed on 11-30-1993 at 11:41:40
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 40 millivolts



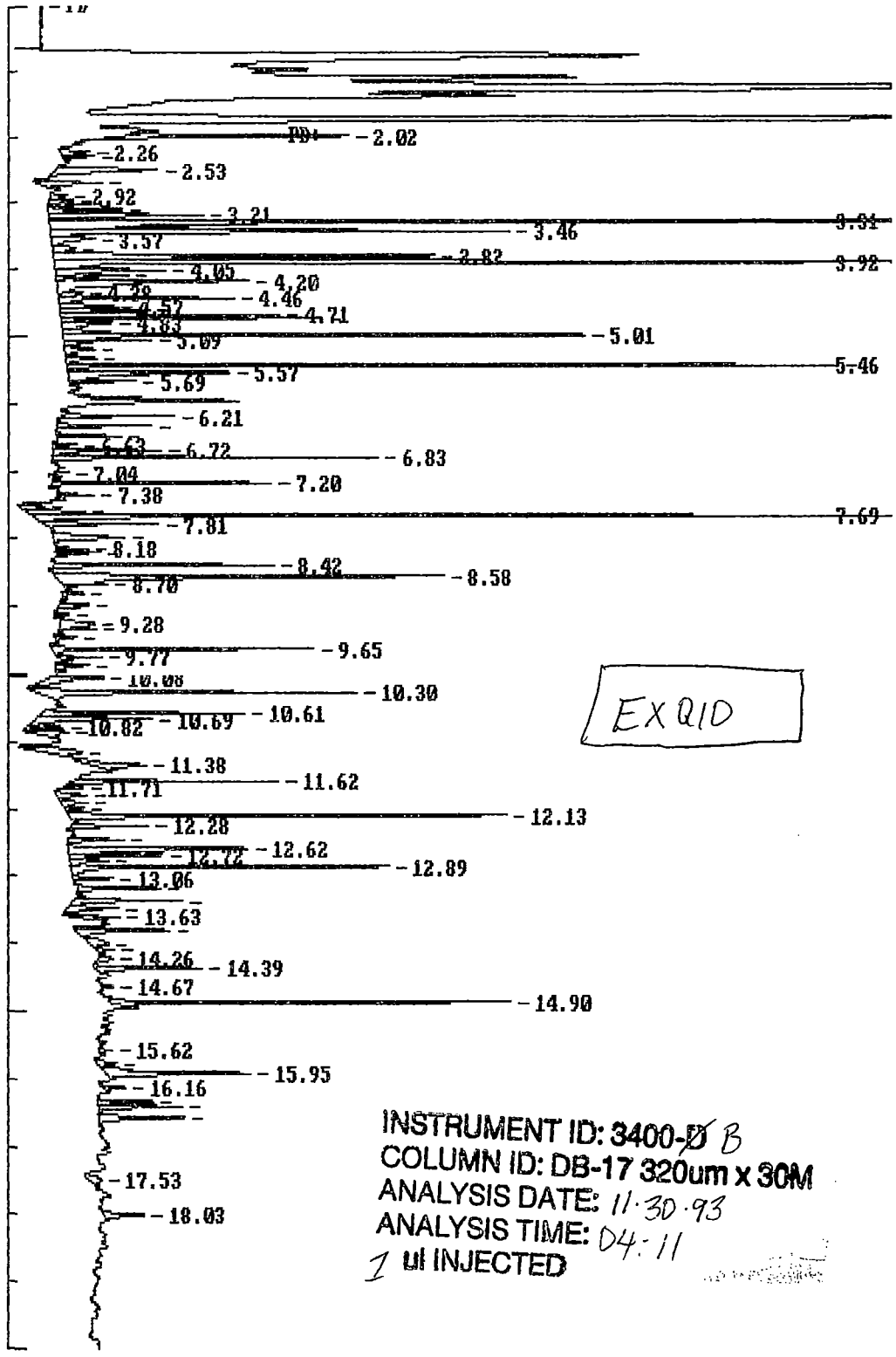
EXQ10

INSTRUMENT ID: 3400-~~C~~ A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-30-93
ANALYSIS TIME: 04:11
1 ul INJECTED

11-30-93 DMG

1565

Data File = 0:076B94.PTS Printed on 11-30-1993 at 13:27:19
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 100 millivolts



EX Q1D

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11·30·93
ANALYSIS TIME: 04:11
1 ul INJECTED

11·30·93
BMG

1566

EXTERNAL STANDARD TABLE

********** 11-30-1993 11:40:25 Version 5.1 **********

* Sample Name: EXQ10/23952,,; Data File: 0:076A94 *
* Date: 11-30-1993 04:11:51 Method: 0:076AB 11-30-1993 10:37:36 # 862 *
* Interface: 1 Cycle#: 94 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.300		2.4457	1.7158%	24457	8120	3.0	2			1.0000E-04
2	4.365		0.3714	0.2605%	3714	2137	1.7	2			1.0000E-04
3	4.450	TCX	1.6108	1.1301%	54945	30493	1.8	2	3	0	2.9318E-05
4	4.525		20.3723	14.2925%	203723	120546	1.7	3			1.0000E-04
6	4.710		6.1464	4.3121%	61464	33454	1.8	2			1.0000E-04
7	4.790		0.9435	0.6619%	9435	3082	3.1	2			1.0000E-04
9	5.040		2.0241	1.4200%	20241	7030	2.9	2			1.0000E-04
10	5.150		1.3283	0.9319%	13283	4047	3.3	2			1.0000E-04
11	5.290		1.0683	0.7495%	10683	3559	3.0	2			1.0000E-04
14	5.565		1.1851	0.8314%	11851	6961	1.7	2			1.0000E-04
16	5.670		0.4628	0.3247%	4628	2002	2.3	2			1.0000E-04
17	5.730		10.6338	7.4603%	106338	65028	1.6	2			1.0000E-04
18	5.805		0.3764	0.2640%	3764	1581	2.4	2			1.0000E-04
19	5.890		3.3241	2.3321%	33241	19885	1.7	2			1.0000E-04
24	6.190		1.2692	0.8904%	12692	6452	2.0	2			1.0000E-04
25	6.295		0.6631	0.4652%	6631	2909	2.3	2			1.0000E-04
26	6.340		2.8127	1.9733%	28127	13872	2.0	2			1.0000E-04
28	6.540		0.4241	0.2975%	4241	2245	1.9	2			1.0000E-04
30	6.700	gamma-BHC <CRQL	1.0405	0.7300%	13469	5064	2.7	2	3	-.3700	7.7254E-05
31	6.820		0.9985	0.7005%	9985	3015	3.3	2			1.0000E-04
32	6.930		0.5816	0.4080%	5816	2040	2.9	2			1.0000E-04
35	7.190		0.6803	0.4773%	6803	3476	2.0	2			1.0000E-04
36	7.265		0.6616	0.4642%	6616	2964	2.2	2			1.0000E-04
40	7.575	Aldrin <CRQL	0.7502	0.5263%	10288	4790	2.1	2	3	.1586	7.2922E-05
41	7.625		0.3620	0.2539%	3620	1794	2.0	2			1.0000E-04
42	7.675		0.3719	0.2609%	3719	1397	2.7	2			1.0000E-04
44	7.920		0.4521	0.3171%	4521	927	4.9	2			1.0000E-04
45	8.015	beta-BHC <CRQL	3.4729	2.4365%	57675	31494	1.8	2	3	-.4583	6.0215E-05
46	8.120		4.6170	3.2391%	46170	17073	2.7	2			1.0000E-04
47	8.280		0.9980	0.7002%	9980	2913	3.4	2			1.0000E-04
49	8.400		2.9675	2.0819%	29675	17656	1.7	2			1.0000E-04
50	8.430	delta-BHC Conf-	3.1092	2.1813%	35210	16099	2.2	3	3	.1059	8.8302E-05
52	8.605		0.4841	0.3396%	4841	2034	2.4	2			1.0000E-04
54	8.775	Hept. epoxide <CRQL	0.4887	0.3429%	5581	1524	3.7	2	3	.1676	8.7570E-05
56	9.075		4.3360	3.0420%	43360	17675	2.5	1			1.0000E-04
57	9.285		0.3953	0.2773%	3953	2104	1.9	2			1.0000E-04
58	9.330	g. Chlordane <CRQL	0.5329	0.3739%	6758	3302	2.0	2	3	.1174	7.8847E-05
60	9.475	a. Chlordane <CRQL	0.8043	0.5643%	10158	3901	2.6	2	3	.1718	7.9185E-05
61	9.585		1.8392	1.2903%	18392	5299	3.5	2			1.0000E-04
62	9.650	4,4'-DDE <CRQL	1.9313	1.3549%	17494	10779	1.6	2	3	.1209	1.1040E-04
63	9.805		0.6698	0.4699%	6698	3663	1.8	2			1.0000E-04
64	9.850	Dieldrin <CRQL	1.0092	0.7080%	14766	4001	3.4	2	3	.1230	1.0225E-04

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65	9.920		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2			[illegible]
66	9.980		1.3661	0.9584%	13661	4607	3.0	2			1.0000E-04
67	10.090		1.1726	0.8226%	11726	3115	3.8	2			1.0000E-04
68	10.160	Endrin <CRQL	1.0660	0.7479%	10545	4797	2.2	2	3	-.1683	1.0109E-04
69	10.235		0.8245	0.5784%	8245	2715	3.0	2			1.0000E-04
70	10.285		0.7967	0.5589%	7967	2170	3.7	2			1.0000E-04
71	10.410		0.8480	0.5949%	8480	2634	3.2	2			1.0000E-04
73	10.610		0.5465	0.3834%	5465	3220	1.7	2			1.0000E-04
77	10.885		5.2245	3.6653%	52245	27666	1.9	2			1.0000E-04
78	10.940	4,4'-DDD <CRQL	2.2774	1.5978%	23534	13601	1.7	2	3	0	9.6772E-05
79	11.035		0.7278	0.5106%	7278	2287	3.2	2			1.0000E-04
80	11.185		0.3652	0.2562%	3652	1661	2.2	2			1.0000E-04
81	11.235	4,4'-DDT X Flag	2.6679	1.8717%	31034	13888	2.2	3	3	0	8.5967E-05
84	11.470		0.7236	0.5077%	7236	3776	1.9	2			1.0000E-04
86	11.625	Endrin Aldehyde <CRQL	3.3823	2.3729%	36474	17976	2.0	2	3	0	9.2734E-05
89	11.945		1.6569	1.1624%	16569	6317	2.6	2			1.0000E-04
90	12.060		0.6962	0.4884%	6962	2253	3.1	2			1.0000E-04
91	12.135	Endo. sulfate <CRQL	0.8489	0.5956%	7606	2591	2.9	2	3	-.1455	1.1160E-04
92	12.220		1.3530	0.9493%	13530	5890	2.3	2			1.0000E-04
93	12.425		2.8829	2.0225%	28829	8875	3.2	2			1.0000E-04
94	12.545		0.4547	0.3190%	4547	2105	2.2	2			1.0000E-04
95	12.585		0.6040	0.4237%	6040	2221	2.7	2			1.0000E-04
96	12.675		1.5897	1.1153%	15897	6206	2.6	2			1.0000E-04
98	12.830	Endrin Ketone <CRQL	0.2892	0.2029%	6461	2252	2.9	2	3	.4596	4.4753E-05
99	12.895		2.3598	1.6555%	23598	8317	2.8	2			1.0000E-04
103	13.385		5.6197	3.9426%	56197	25624	2.2	2			1.0000E-04
104	13.485		1.1995	0.8415%	11995	5116	2.3	2			1.0000E-04
105	13.580		1.2759	0.8951%	12759	5324	2.4	2			1.0000E-04
106	13.725		0.5866	0.4115%	5866	1397	4.2	2			1.0000E-04
113	14.330		0.4823	0.3384%	4823	2687	1.8	1			1.0000E-04
114	14.435	DCB	2.0648	1.4486%	20915	12816	1.6	1	3	0	9.8726E-05
116	14.585		2.4837	1.7425%	24837	8576	2.9	2			1.0000E-04
117	14.775		1.4346	1.0065%	14346	6811	2.1	1			1.0000E-04

TOTAL AMOUNT = 142.5385

076A94
P 2
11-30-93
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EXTERNAL STANDARD TABLE

```
******************** 11-30-1993 13:40:50 Version 5.1 ********************
* Sample Name: EX010/23952,,;                    Data File: 0:076B94      *
* Date: 11-30-1993 04:11:59 Method: 0:076BB  11-30-1993 13:34:48  #  888 *
* Interface: 2   Cycle#:  94   Operator BG  Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  5   Threshold: 50  Area Threshold: 500            *
*************************************************************************
* Instrument Type: 3400-B                Column Type: DB-17 .32mm x 30M   *
*              Solvent Description: carrier gas = H2; make-up = N2        *
* Conditions:  110H.5to140@20/min to280@11/minH9 INJ=210 DET=300          *
*             Detector 0: ECD Range1          Detector 1: ECD Range1      *
* Misc. Information: 11/22/93,C,;                                         *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    19.00
Area reject:      3500                     One sample per    0.300 sec.
Amount injected:        1.00               Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.575		0.7547	0.4365%	7547	4378	1.7	2			1.0000E-04
2	4.635		1.6575	0.9588%	16575	8635	1.9	2			1.0000E-04
3	4.705		4.1313	2.3896%	41313	23357	1.8	2			1.0000E-04
4	4.755		5.2865	3.0578%	52865	28328	1.9	2			1.0000E-04
5	4.830		1.6198	0.9369%	16198	4722	3.4	2			1.0000E-04
6	4.960		0.9965	0.5764%	9965	4731	2.1	2			1.0000E-04
7	5.010	TCX	0.0154	0.0089%	113476	58879	1.9	2	7	0	1.3549E-07
8	5.085		2.3711	1.3715%	23711	9679	2.4	2			1.0000E-04
9	5.220		1.2197	0.7055%	12197	3344	3.6	2			1.0000E-04
10	5.360		1.1877	0.6870%	11877	3397	3.5	2			1.0000E-04
11	5.460		15.0617	8.7120%	150617	87764	1.7	2			1.0000E-04
12	5.565		6.1788	3.5739%	61788	18291	3.4	2			1.0000E-04
13	5.685		1.6028	0.9271%	16028	7498	2.1	2			1.0000E-04
14	5.935		1.0030	0.5802%	10031	5701	1.8	1			1.0000E-04
15	6.210		2.2736	1.3151%	22736	12834	1.8	1			1.0000E-04
16	6.345		1.9593	1.1333%	19593	10765	1.8	1			1.0000E-04
17	6.505		1.2031	0.6959%	12031	7428	1.6	1			1.0000E-04
18	6.630		0.5323	0.3079%	5323	2664	2.0	2			1.0000E-04
19	6.715		2.7573	1.5949%	27573	12356	2.2	2			1.0000E-04
20	6.825		6.1172	3.5383%	61172	36909	1.7	2			1.0000E-04
22	7.195	gamma-BHC	0.0040	0.0023%	43266	24872	1.7	1	7	.1300	9.1880E-08
23	7.375	beta-BHC	0.0019	0.0011%	6942	4184	1.7	1	7	.1317	2.7691E-07
24	7.540		0.5633	0.3258%	5633	2706	2.1	2			1.0000E-04
25	7.625		2.0630	1.1933%	20630	6372	3.2	2			1.0000E-04
26	7.685		19.8246	11.4670%	198246	107093	1.9	2			1.0000E-04
27	7.805	Heptachlor	0.0030	0.0017%	26774	12715	2.1	2	7	.2638	1.1145E-07
28	8.000		2.7704	1.6024%	27704	8178	3.4	1			1.0000E-04
29	8.175		0.5527	0.3197%	5527	3740	1.5	1			1.0000E-04
30	8.225		0.6017	0.3480%	6017	4558	1.3	1			1.0000E-04
31	8.415	Aldrin	0.0040	0.0023%	48338	25026	1.9	1	7	.4981	8.1798E-08
32	8.575		14.5084	8.3920%	145084	43928	3.3	2			1.0000E-04
33	8.695		1.2091	0.6994%	12091	4883	2.5	2			1.0000E-04
34	8.825		0.4627	0.2677%	4628	2401	1.9	1			1.0000E-04
35	8.995		1.2460	0.7207%	12460	3430	3.6	1			1.0000E-04
37	9.280		1.7172	0.9932%	17172	3965	4.3	2			1.0000E-04
38	9.360		0.7930	0.4587%	7930	4205	1.9	2			1.0000E-04
39	9.475	Hept. epoxide	0.0005	0.0003%	4659	2412	1.9	1	7	.1467	1.0548E-07
40	9.650		5.6905	3.2915%	56905	29566	1.9	1			1.0000E-04
41	9.775	g. Chlordane	0.0007	0.0004%	7058	4685	1.5	1	7	.1483	9.2400E-08
42	9.895		0.8640	0.4998%	8640	3802	2.3	1			1.0000E-04
43	10.080	a. Chlordane	0.0025	0.0014%	27035	6285	4.3	1	7	.1003	9.1302E-08
44	10.200		8.1144	4.6925%	81144	25662	3.2	1			1.0000E-04

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45	10.[illegible]	4,4'-DDE CCRQL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
46	10.685	Dieldrin	0.0041	0.0024%	41563	13182	3.2	2	7	.2464	9.9731E-08
47	10.820		1.5320	0.8861%	15320	4265	3.6	2			1.0000E-04
48	10.885		0.9990	0.5778%	9990	3702	2.7	1			1.0000E-04
49	11.185		1.7826	1.0311%	17826	2644	6.7	1			1.0000E-04
50	11.375	Endrin	0.0027	0.0016%	22491	5230	4.3	1	7	.5088	1.2132E-07
51	11.615	4,4'-DDD	0.0055	0.0032%	41130	23303	1.8	1	7	0	1.3477E-07
52	11.710		0.4674	0.2704%	4674	2271	2.1	1			1.0000E-04
53	11.820		0.9786	0.5660%	9786	3380	2.9	2			1.0000E-04
54	11.935		0.9253	0.5352%	9253	2958	3.1	2			1.0000E-04
55	12.020		0.4814	0.2784%	4814	2065	2.3	2			1.0000E-04
56	12.125	4,4'-DDT	0.0197	0.0114%	121317	49629	2.4	1	7	0	1.6277E-07
57	12.280	Endrin Aldehyde	0.0030	0.0017%	17301	8842	2.0	1	7	.1996	1.7436E-07
58	12.480	Endo. sulfate	0.0022	0.0013%	13756	6389	2.2	1	7	0	1.5764E-07
59	12.615		7.2158	4.1738%	72158	20407	3.5	2			1.0000E-04
60	12.715		2.5485	1.4741%	25485	10688	2.4	2			1.0000E-04
61	12.800		1.4057	0.8131%	14057	4435	3.2	2			1.0000E-04
62	12.885		7.9476	4.5970%	79476	35997	2.2	2			1.0000E-04
63	13.060		1.0623	0.6144%	10623	4572	2.3	2			1.0000E-04
64	13.205		2.1348	1.2348%	21348	9435	2.3	1			1.0000E-04
65	13.395		2.8248	1.6339%	28248	12331	2.3	2			1.0000E-04
66	13.500		1.8719	1.0827%	18719	5837	3.2	2			1.0000E-04
67	13.630		0.8011	0.4633%	8011	4510	1.8	1			1.0000E-04
68	13.830	Endrin Ketone	0.0120	0.0069%	27514	10575	2.6	2	7	.1272	4.3502E-07
69	14.040		1.0739	0.6211%	10739	1911	5.6	2			1.0000E-04
70	14.120		0.4415	0.2554%	4415	1946	2.3	2			1.0000E-04
71	14.260		0.6605	0.3821%	6605	1842	3.6	1			1.0000E-04
72	14.390		2.8226	1.6327%	28226	11903	2.4	1			1.0000E-04
74	14.895		8.7394	5.0550%	87394	44757	2.0	1			1.0000E-04
76	15.800		0.5883	0.3403%	5883	2045	2.9	2			1.0000E-04
77	15.950	DCB	0.0052	0.0030%	49520	15976	3.1	2	7	0	1.0420E-07
78	16.155		0.6626	0.3833%	6626	2522	2.6	1			1.0000E-04
79	16.365		1.5868	0.9179%	15868	6201	2.6	2			1.0000E-04
80	16.445		2.3442	1.3559%	23442	9195	2.5	2			1.0000E-04

TOTAL AMOUNT = 172.8844

076B94
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11.30.93
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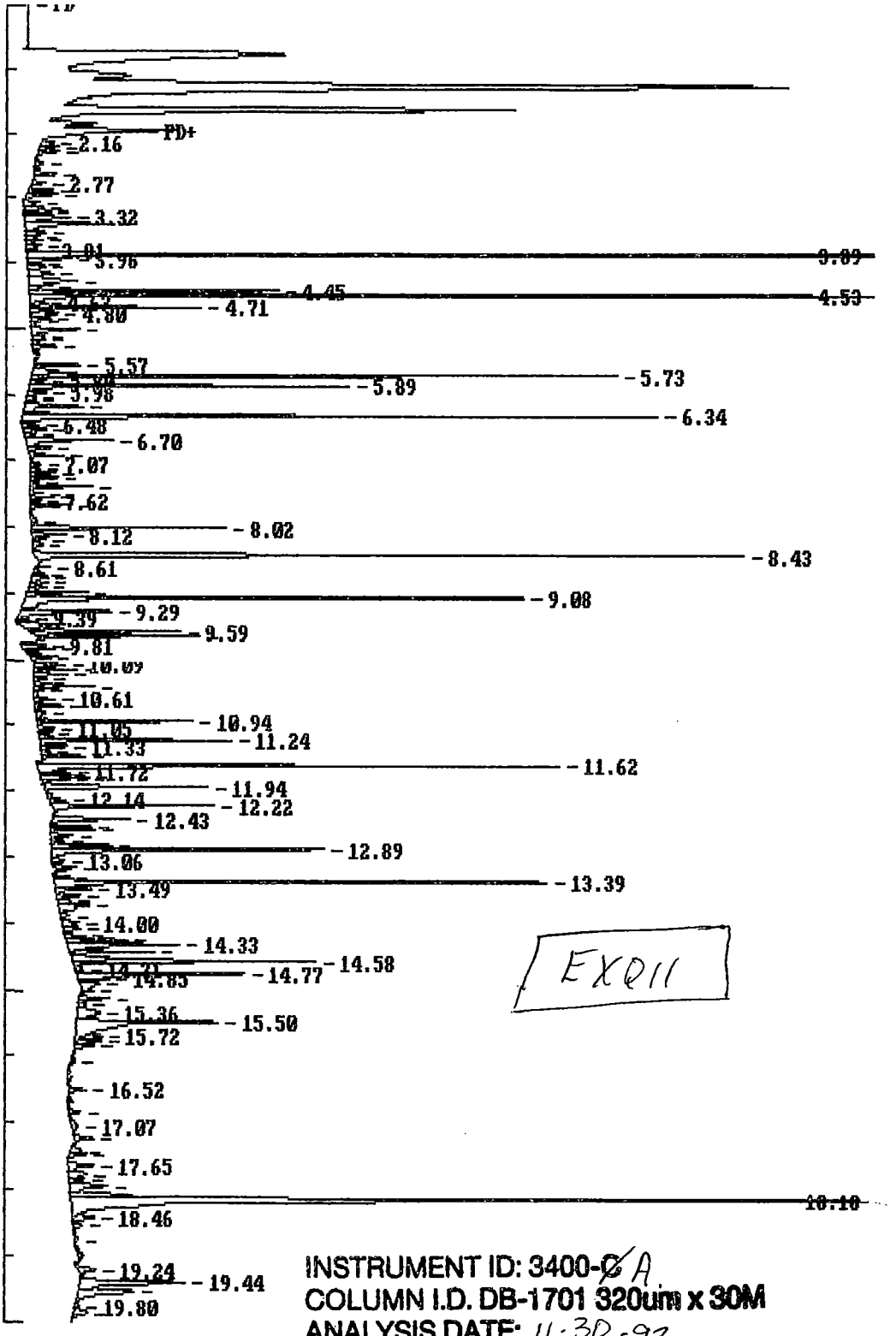
Data File = O:076A96.PTS Printed on 11-30-1993 at 12:07:06
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 120 millivolts

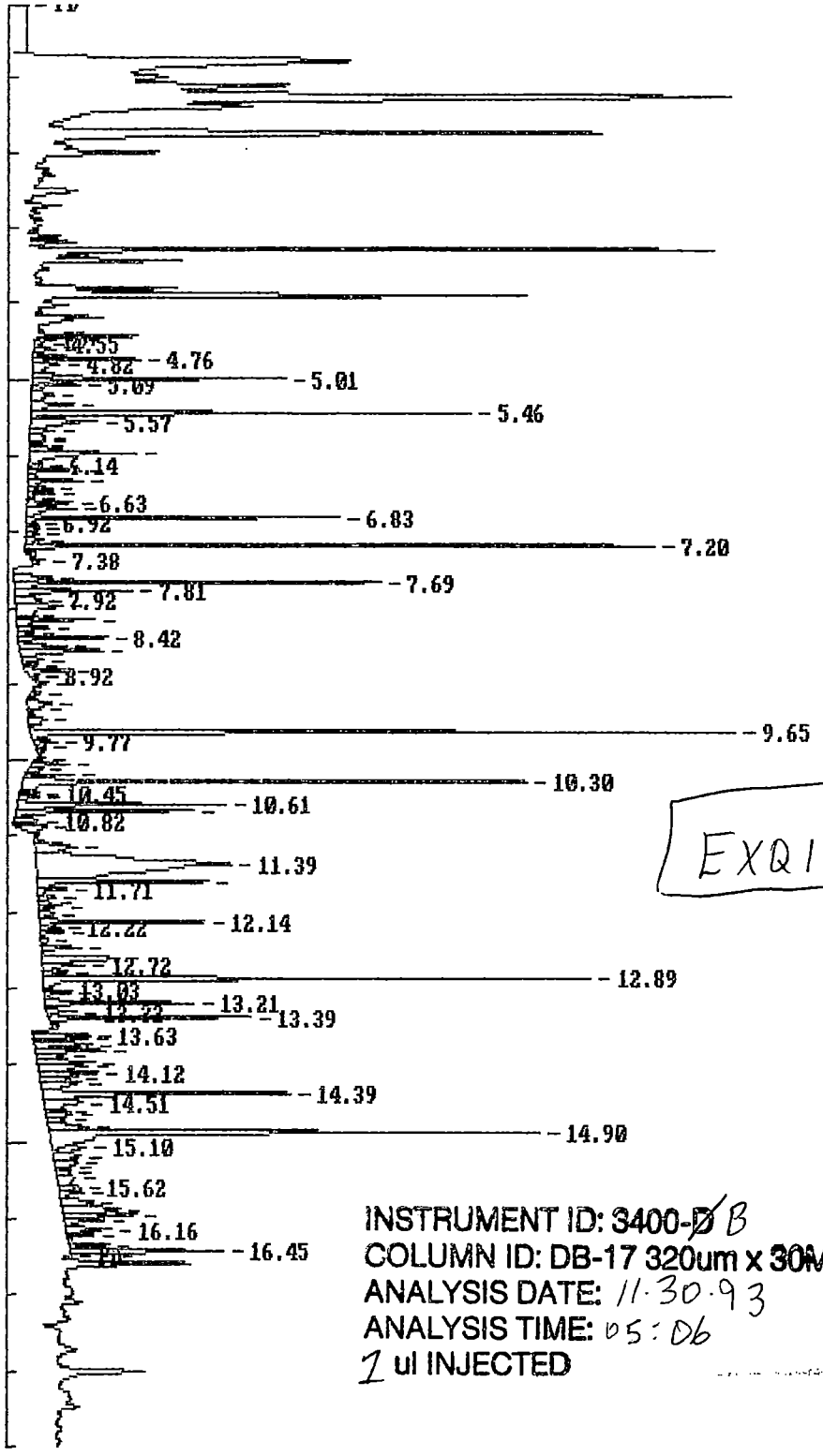


EXQ11

INSTRUMENT ID: 3400-~~C~~ A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-30-93
ANALYSIS TIME: 05:05
1 ul INJECTED

11-30-93
BMG

Areas, times, and heights stored in: O:076B96.ATB
Data File = O:076B96.PTS Printed on 11-30-1993 at 13:01:56
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 250 millivolts



EXQ11

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11·30·93
ANALYSIS TIME: 05:06
1 ul INJECTED

11·30·93
BMG

++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-30-1993 11:46:09 Version 5.1 **********

* Sample Name: EXQ11/23953,,; Data File: 0:076A96 *

* Date: 11-30-1993 05:05:54 Method: 0:076AB 11-30-1993 10:37:36 # 862 *

* Interface: 1 Cycle#: 96 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.300		1.3716	0.5272%	13716	5254	2.6	2			1.0000E-04
3	4.450	TCX	1.7660	0.6789%	60236	33424	1.8	2	3	0	2.9318E-05
4	4.525		20.5253	7.8900%	205253	123986	1.7	3			1.0000E-04
6	4.670		0.3686	0.1417%	3686	2195	1.7	2			1.0000E-04
7	4.705		4.1285	1.5870%	41285	22780	1.8	2			1.0000E-04
8	4.795		0.9686	0.3723%	9686	3015	3.2	2			1.0000E-04
9	4.870		0.4125	0.1586%	4125	2146	1.9	2			1.0000E-04
11	5.040		1.8260	0.7019%	18260	6257	2.9	2			1.0000E-04
13	5.190		0.5012	0.1927%	5012	1646	3.0	2			1.0000E-04
14	5.290		1.0720	0.4121%	10720	3331	3.2	2			1.0000E-04
17	5.565		1.1175	0.4296%	11175	6409	1.7	2			1.0000E-04
18	5.665		1.1341	0.4360%	11341	3644	3.1	2			1.0000E-04
19	5.730		13.7803	5.2972%	137803	81611	1.7	2			1.0000E-04
20	5.800		0.5649	0.2171%	5649	2096	2.7	2			1.0000E-04
21	5.885		7.4902	2.8793%	74902	44440	1.7	2			1.0000E-04
22	5.980		0.7355	0.2827%	7355	2491	3.0	2			1.0000E-04
24	6.100		0.3988	0.1533%	3988	1314	3.0	2			1.0000E-04
25	6.190		2.2812	0.8769%	22812	8091	2.8	2			1.0000E-04
26	6.295		0.8123	0.3122%	8123	3502	2.3	2			1.0000E-04
27	6.340	12-03-93	15.7951	6.0717%	157951	88418	1.8	2			1.0000E-04
28	6.480	BJB	0.6413	0.2465%	6413	2310	2.8	2			1.0000E-04
29	6.540		0.7348	0.2825%	7348	3107	2.4	2			1.0000E-04
30	6.595	X Flag	0.4613	0.1773%	4613	1587	2.9	2			1.0000E-04
31	6.700	gamma-BHC ~~<CRQL~~	2.5346	0.9743%	32809	12099	2.7	2	3	-.3700	7.7254E-05
32	6.810		1.0243	0.3937%	10243	3161	3.2	2			1.0000E-04
33	6.930		0.9560	0.3675%	9560	4631	2.1	2			1.0000E-04
36	7.135	Heptachlor <CRQL	0.3230	0.1241%	3915	1344	2.9	2	3	.2950	8.2482E-05
37	7.190		0.8775	0.3373%	8775	3488	2.5	2			1.0000E-04
38	7.265		0.8854	0.3404%	8854	3848	2.3	2			1.0000E-04
40	7.395		1.4994	0.5764%	14994	8645	1.7	2			1.0000E-04
42	7.560	Aldrin <CRQL	0.4822	0.1854%	6613	3242	2.0	2	3	0	7.2922E-05
44	7.675		1.1131	0.4279%	11131	5674	2.0	2			1.0000E-04
46	8.015	beta-BHC < CRQL	2.9032	1.1160%	48215	26886	1.8	2	3	-.4583	6.0215E-05
47	8.120		1.1852	0.4556%	11852	4558	2.6	2			1.0000E-04
48	8.190		0.3856	0.1482%	3856	1739	2.2	2	12.1.93		1.0000E-04
49	8.260		0.5531	0.2126%	5531	1267	4.4	2	BMG		1.0000E-04
50	8.430	delta-BHC Conf-	17.0231	6.5437%	192782	98425	2.0	1	3	.1059	8.8302E-05
54	8.770	Hept. epoxide <CRQL	0.8312	0.3195%	9492	2333	4.1	2	3	.1105	8.7570E-05
55	8.845		0.7146	0.2747%	7146	2542	2.8	2			1.0000E-04
56	8.915		0.8475	0.3258%	8475	2554	3.3	2			1.0000E-04
57	8.995		1.4706	0.5653%	14706	8558	1.7	2			1.0000E-04
58	9.075		15.5944	6.0230%	156944	69649	2.3	2			1.0000E-04

1574

59	9.285	g. Chlordane <CRQL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	3	[illegible]	[illegible]
61	9.475	a. Chlordane Conf-	1.2962	0.4983%	16370	5886	2.8	2	3	.1718	7.9185E-05
62	9.535		0.4620	0.1776%	4620	2523	1.8	2			1.0000E-04
63	9.585		4.0600	1.5607%	40600	20466	2.0	2			1.0000E-04
64	9.650	4,4'-DDE	4.1145	1.5816%	37269	22211	1.7	2	3	.1209	1.1040E-04
65	9.805		0.6398	0.2459%	6398	3204	2.0	2			1.0000E-04
66	9.850	Dieldrin <CRQL	1.2812	0.4925%	9914	4102	2.4	2	3	.1230	1.2923E-04
67	9.930		0.4526	0.1740%	4526	1518	3.0	2			1.0000E-04
68	9.980		0.5101	0.1961%	5101	2440	2.1	2			1.0000E-04
69	10.085		0.9979	0.3836%	9979	4204	2.4	2			1.0000E-04
70	10.160	Endrin <CRQL	1.0202	0.3922%	10092	5951	1.7	2	3	-.1683	1.0109E-04
71	10.235		0.9943	0.3822%	9943	4527	2.2	2			1.0000E-04
72	10.290		0.4633	0.1781%	4633	1666	2.8	2			1.0000E-04
74	10.410		1.7625	0.6775%	17625	8327	2.1	2			1.0000E-04
77	10.610		0.4950	0.1903%	4950	2793	1.8	2			1.0000E-04
79	10.710		0.7753	0.2980%	7753	3739	2.1	2			1.0000E-04
81	10.805	Possible matrix interference	0.5370	0.2064%	5370	1289	4.2	2			1.0000E-04
83	10.940	4,4'-DDD X Flag	3.5318	1.3576%	36496	21454	1.7	2	3	0	9.6772E-05
84	11.050		0.7172	0.2757%	7172	2193	3.3	2			1.0000E-04
86	11.185		0.4452	0.1711%	4452	1849	2.4	2			1.0000E-04
87	11.235	4,4'-DDT Conf+	4.3255	1.6627%	50315	26610	1.9	2	3	0	8.5967E-05
88	11.330		0.8906	0.3423%	8906	3692	2.4	2			1.0000E-04
89	11.405		0.4108	0.1579%	4108	1251	3.3	2			1.0000E-04
90	11.470		1.0500	0.4036%	10500	6036	1.7	2			1.0000E-04
91	11.620	Endrin Aldehyde <CRQL	13.2723	5.1019%	143122	72776	2.0	2	3	0	9.2734E-05
92	11.720		1.0135	0.3896%	10135	4264	2.4	2			1.0000E-04
93	11.785		1.3605	0.5230%	13605	6588	2.1	2			1.0000E-04
94	11.830		0.8202	0.3153%	8202	3768	2.2	2			1.0000E-04
95	11.940		4.8768	1.8747%	48768	22695	2.1	2			1.0000E-04
97	12.140	Endo. sulfate <CRQL	0.7133	0.2742%	6391	2353	2.7	2	3	-.1044	1.1160E-04
98	12.220		4.7833	1.8387%	47833	22554	2.1	3			1.0000E-04
100	12.425		2.9680	1.1409%	29680	10915	2.7	1			1.0000E-04
101	12.540		0.9679	0.3721%	9679	5665	1.7	2			1.0000E-04
102	12.585		1.3059	0.5020%	13059	6194	2.1	2			1.0000E-04
103	12.675		1.0342	0.3976%	10342	3112	3.3	2			1.0000E-04
105	12.825	Endrin Ketone <CRQL	0.9438	0.3628%	21089	8488	2.5	2	3	.4204	4.4753E-05
106	12.890		9.1607	3.5214%	91607	37933	2.4	2			1.0000E-04
107	13.060		0.5722	0.2200%	5722	1791	3.2	2			1.0000E-04
108	13.160		0.4124	0.1585%	4124	1979	2.1	1			1.0000E-04
109	13.305		0.4018	0.1545%	4018	2170	1.9	2			1.0000E-04
110	13.385		14.6791	5.6427%	146791	68609	2.1	2			1.0000E-04
111	13.485		1.3761	0.5290%	13761	4901	2.8	2			1.0000E-04
112	13.585		0.8610	0.3310%	8610	3267	2.6	2			1.0000E-04
113	13.665		0.4924	0.1893%	4924	1815	2.7	2			1.0000E-04
114	13.725		2.1564	0.8289%	21564	4254	5.1	2			1.0000E-04
115	13.890		0.4113	0.1581%	4113	1279	3.2	2			1.0000E-04
116	14.000		0.8813	0.3388%	8813	2382	3.7	2			1.0000E-04
117	14.085		0.7523	0.2892%	7523	2415	3.1	2			1.0000E-04
118	14.195		0.5679	0.2183%	5679	2835	2.0	2			1.0000E-04
119	14.255		1.7636	0.6779%	17636	8465	2.1	2			1.0000E-04
120	14.330		4.3600	1.6760%	43600	15478	2.8	2			1.0000E-04
121	14.435	DCB	2.0610	0.7922%	20875	11720	1.8	2	3	0	9.8726E-05
122	14.535		1.5238	0.5857%	15238	5866	2.6	2			1.0000E-04
123	14.580		8.0886	3.1093%	80886	33794	2.4	3			1.0000E-04
126	14.770		5.6826	2.1844%	56826	23330	2.4	2			1.0000E-04
127	14.845		1.4117	0.5427%	14117	4278	3.3	2			1.0000E-04
128	14.925		1.3121	0.5044%	13121	2790	4.7	2			1.0000E-04
130	15.145		0.9488	0.3647%	9488	4289	2.2	1			1.0000E-04
132	15.355		1.4162	0.5444%	14162	2317	6.1	2			1.0000E-04

TOTAL AMOUNT = 260.1435

D76A96

P2
11-30-93

BRG

EXTERNAL STANDARD TABLE

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******************** 11-30-1993 12:59:55 Version 5.1 ********************
* Sample Name: EXQ11/23953,,;                    Data File: 0:076B96      *
* Date: 11-30-1993 05:06:02 Method: 0:076BB  11-30-1993 12:57:01  #  887  *
* Interface: 2   Cycle#:  96   Operator BG  Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250             *
*************************************************************************
* Instrument Type: 3400-B                  Column Type: DB-17 .32mm x 30M *
*            Solvent Description: carrier gas = H2; make-up = N2          *
* Conditions:  110H.5to140@20/min to280@11/minH9 INJ=210 DET=300          *
*            Detector 0: ECD Range1          Detector 1: ECD Range1       *
* Misc. Information: 11/22/93,C,;                                         *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    19.00
Area reject:      3500                     One sample per    0.300 sec.
Amount injected:        1.00               Dilution factor:        1.00
Sample Weight:          1.00000
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PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.545		0.7858	0.1639%	7858	2602	3.0	2			1.0000E-04
2	4.635		1.6323	0.3404%	16323	5904	2.8	2			1.0000E-04
3	4.710		1.4338	0.2990%	14338	8397	1.7	2			1.0000E-04
4	4.755		5.7026	1.1893%	57026	27965	2.0	2			1.0000E-04
5	4.825		2.9267	0.6104%	29267	6832	4.3	2			1.0000E-04
6	4.960		1.6938	0.3533%	16938	6234	2.7	2			1.0000E-04
7	5.005	TCX	0.0182	0.0038%	134688	66821	2.0	3	7	0	1.3549E-07
8	5.085		3.2061	0.6687%	32061	11844	2.7	4			1.0000E-04
9	5.220		2.7316	0.5697%	27316	5721	4.8	2			1.0000E-04
10	5.345		3.9131	0.8161%	39131	10954	3.6	2			1.0000E-04
11	5.460		20.6036	4.2971%	206036	116174	1.8	2			1.0000E-04
12	5.565		6.7084	1.3991%	67084	17393	3.9	2			1.0000E-04
13	5.690		1.8312	0.3819%	18312	6324	2.9	2			1.0000E-04
14	5.785		1.6530	0.3448%	16530	4049	4.1	2			1.0000E-04
15	5.820		1.0345	0.2157%	10345	4111	2.5	2			1.0000E-04
16	5.870		0.7764	0.1619%	7764	3307	2.3	2			1.0000E-04
17	5.935		2.5683	0.5356%	25683	8480	3.0	2			1.0000E-04
18	5.985		9.8135	2.0467%	98135	28127	3.5	3			1.0000E-04
19	6.140		0.7393	0.1542%	7393	3031	2.4	4			1.0000E-04
20	6.210		3.2382	0.6754%	32382	13869	2.3	2			1.0000E-04
21	6.290		0.7054	0.1471%	7054	2377	3.0	2			1.0000E-04
22	6.345		3.4937	0.7287%	34937	14326	2.4	2			1.0000E-04
23	6.445	alpha-BHC	0.0009	0.0002%	12580	6392	2.0	2	7	.3775	7.3132E-08
24	6.505		1.4399	0.3003%	14399	7020	2.1	2			1.0000E-04
25	6.560		0.4244	0.0885%	4244	1863	2.3	2			1.0000E-04
26	6.630		2.9151	0.6080%	29151	11905	2.4	2			1.0000E-04
27	6.715		3.5717	0.7449%	35717	12991	2.7	2			1.0000E-04
28	6.825		14.3953	3.0023%	143953	82814	1.7	2			1.0000E-04
29	6.915		0.8220	0.1714%	8220	2709	3.0	2			1.0000E-04
30	6.965		1.1834	0.2468%	11834	3382	3.5	2			1.0000E-04
31	7.040		1.0182	0.2124%	10182	3415	3.0	2			1.0000E-04
32	7.115		1.4263	0.2975%	14263	4679	3.0	2			1.0000E-04
33	7.195	gamma-BHC	0.0269	0.0056%	292869	166810	1.8	2	7	.2300	9.1880E-08
35	7.380	beta-BHC	0.0021	0.0004%	7740	3449	2.2	2	7	.2997	2.7691E-07
37	7.625		2.9353	0.6122%	29353	10329	2.8	2			1.0000E-04
38	7.685		19.4955	4.0660%	194955	96799	2.0	2			1.0000E-04
39	7.805	Heptachlor	0.0080	0.0017%	71694	30652	2.3	2	7	.3639	1.1145E-07
40	7.920		3.3512	0.6989%	33512	6736	5.0	2			1.0000E-04
41	8.000	delta-BHC	0.0071	0.0015%	70559	11946	5.9	2	7	7.4069	1.0128E-07
42	8.130		0.9544	0.1991%	9544	4705	2.0	2			1.0000E-04
43	8.175		5.1684	1.0779%	51684	20432	2.5	2			1.0000E-04
44	8.205		2.4402	0.5106%	24402	8267	2.9	2			1.0000E-04

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45	8.355	Aldrin	0.0011	0.0002%	13403	4192	3.2	2	7	.1187	0.1750E-08
46	8.415		5.3246	1.1105%	53246	23307	2.3	2			1.0000E-04
47	8.525		2.6696	0.5568%	26696	12266	2.2	2			1.0000E-04
48	8.585		7.7357	1.6134%	77357	21446	3.6	2			1.0000E-04
49	8.700		1.8481	0.3854%	18481	5592	3.3	2			1.0000E-04
50	8.775		0.6621	0.1381%	6621	3423	1.9	2			1.0000E-04
51	8.845		2.8820	0.6011%	28820	10863	2.7	2			1.0000E-04
52	8.920		0.4184	0.0873%	4184	1560	2.7	2			1.0000E-04
53	9.000		0.5128	0.1070%	5129	2862	1.8	1			1.0000E-04
55	9.140		0.8336	0.1739%	8336	2711	3.1	2			1.0000E-04
56	9.275		2.7842	0.5807%	27842	6282	4.4	2			1.0000E-04
57	9.340		1.0039	0.2094%	10039	3511	2.9	2			1.0000E-04
59	9.480	Hept. epoxide	0.0020	0.0004%	18573	4708	3.9	2	7	.2997	1.0548E-07
60	9.650		35.6611	7.4375%	356611	186604	1.9	2			1.0000E-04
61	9.775	g. Chlordane	0.0012	0.0002%	12939	6089	2.1	2	7	.2484	9.2400E-08
62	9.830		0.6457	0.1347%	6457	2768	2.3	2			1.0000E-04
64	9.990		0.5448	0.1136%	5448	2459	2.2	1			1.0000E-04
65	10.075	Endosulfan I	0.0025	0.0005%	22108	9937	2.2	2	7	-.1463	1.1134E-07
66	10.140		1.2270	0.2559%	12270	3527	3.5	2			1.0000E-04
67	10.210		1.6919	0.3529%	16919	12820	1.3	1			1.0000E-04
68	10.300		28.5192	5.9480%	285192	133098	2.1	2			1.0000E-04
69	10.450		1.4300	0.2982%	14300	5096	2.8	2			1.0000E-04
70	10.495		1.9723	0.4113%	19723	5631	3.5	2			1.0000E-04
71	10.605	4,4'-DDE	0.0140	0.0029%	125361	55059	2.3	2	7	.1580	1.1134E-07
72	10.685	Dieldrin	0.0124	0.0026%	124143	46920	2.6	2	7	.3466	9.9731E-08
73	10.820		2.0128	0.4198%	20128	6388	3.2	2			1.0000E-04
74	10.895		2.5173	0.5250%	25173	6669	3.8	2			1.0000E-04
76	11.075		0.3758	0.0784%	3758	2307	1.6	2			1.0000E-04
77	11.160		4.5124	0.9411%	45124	11096	4.1	2			1.0000E-04
78	11.385	Endrin	0.0705	0.0147%	581151	51298	11.3	2	7	.6977	1.2132E-07
79	11.615	4,4'-DDD	0.0170	0.0035%	125810	44978	2.8	2	7	.1703	1.3477E-07
80	11.710		2.1514	0.4487%	21514	7734	2.8	2			1.0000E-04
81	11.815		1.7231	0.3594%	17231	4629	3.7	2			1.0000E-04
82	11.895		0.9504	0.1982%	9504	3501	2.7	2			1.0000E-04
83	11.935		1.6682	0.3479%	16682	6234	2.7	2			1.0000E-04
84	12.040		1.3354	0.2785%	13354	3937	3.4	2			1.0000E-04
85	12.140	4,4'-DDT	0.0150	0.0031%	92234	43353	2.1	2	7	.1347	1.6277E-07
86	12.215	Endrin Aldehyde	0.0022	0.0005%	12721	5306	2.4	2	7	-.2311	1.7436E-07
87	12.280		1.4078	0.2936%	14078	6150	2.3	2			1.0000E-04
88	12.390		0.8313	0.1734%	8313	1855	4.5	2			1.0000E-04
89	12.480	Endo. sulfate	0.0038	0.0008%	24018	10366	2.3	2	7	.1392	1.5764E-07
90	12.615		8.4086	1.7537%	84086	20192	4.2	2			1.0000E-04
91	12.715		3.1562	0.6583%	31562	10961	2.9	2			1.0000E-04
92	12.800		2.1611	0.4507%	21611	6549	3.3	2			1.0000E-04
93	12.885		29.6761	6.1892%	296761	144840	2.0	3			1.0000E-04
94	13.025		0.3767	0.0786%	3767	2080	1.8	4			1.0000E-04
95	13.065		1.6665	0.3476%	16665	6996	2.4	2			1.0000E-04
96	13.205		9.2920	1.9379%	92920	39136	2.4	2			1.0000E-04
97	13.315		1.8150	0.3785%	18150	7889	2.3	2			1.0000E-04
98	13.390		10.9635	2.2866%	109635	53259	2.1	2			1.0000E-04
100	13.630		3.4344	0.7163%	34344	15108	2.3	2			1.0000E-04
101	13.675	Methoxychlor	0.0045	0.0009%	35975	14284	2.5	2	7	-.1747	1.2466E-07
102	13.750		5.6645	1.1814%	56645	14967	3.8	2			1.0000E-04
103	13.830	Endrin Ketone	0.0208	0.0043%	47756	18330	2.6	2	7	.2272	4.3502E-07
104	13.885		2.5771	0.5375%	25771	7677	3.4	2			1.0000E-04
105	13.975		3.8666	0.8064%	38666	14858	2.6	2			1.0000E-04
106	14.040		5.5313	1.1536%	55313	12952	4.3	2			1.0000E-04
107	14.120		5.1843	1.0812%	51843	15209	3.4	2			1.0000E-04
108	14.175		2.9724	0.6199%	29724	9839	3.0	2			1.0000E-04
109	14.245		5.7449	1.1982%	57449	10600	5.4	2			1.0000E-04
110	14.390		17.8251	3.7176%	178251	65404	2.7	2			1.0000E-04
111	14.505		5.0314	1.0493%	50314	9944	5.1	2			1.0000E-04
112	14.615		1.7477	0.3645%	17477	5419	3.2	2			1.0000E-04
113	14.660		2.1111	0.4403%	21111	6862	3.1	2			1.0000E-04
114	14.705		1.8691	0.3898%	18691	5142	3.6	2			1.0000E-04

D76B96
P2
11.30.93
BMB

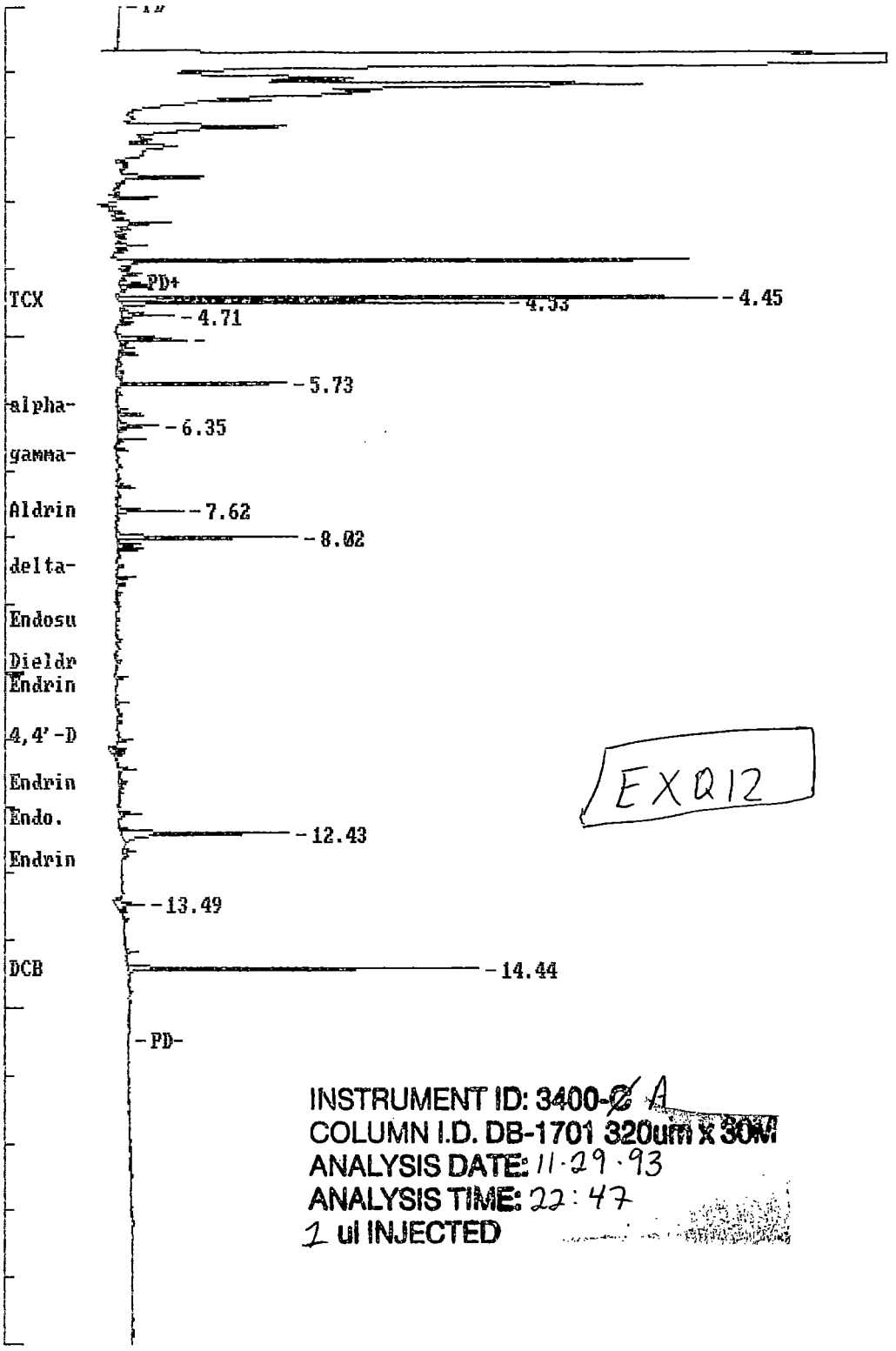
1577

116	14.895		33.8371	7.4887%	338371	129768	2.6	3				1.0000E-04
117	15.095		3.2018	0.6678%	32018	7282	4.4	4				1.0000E-04
118	15.200		3.2060	0.6686%	32060	7300	4.4	2				1.0000E-04
119	15.285		2.6929	0.5616%	26929	5977	4.5	2				1.0000E-04
120	15.355		1.3437	0.2802%	13437	4020	3.3	2				1.0000E-04
121	15.415		1.1705	0.2441%	11705	3749	3.1	2				1.0000E-04
122	15.485		3.3319	0.6949%	33319	4857	6.9	2				1.0000E-04
123	15.615		1.8867	0.3935%	18867	5622	3.4	2				1.0000E-04
124	15.680		1.9604	0.4089%	19604	6275	3.1	2				1.0000E-04
125	15.800		2.9621	0.6178%	29621	8256	3.6	2				1.0000E-04
126	15.895	DCB	0.0071	0.0015%	68104	15013	4.5	2	7		-.1713	1.0420E-07
127	15.955		8.1831	1.7067%	81831	19230	4.3	2				1.0000E-04
128	16.035		3.2570	0.6793%	32570	10486	3.1	2				1.0000E-04
129	16.155		3.7837	0.7891%	37837	11843	3.2	2				1.0000E-04
130	16.230		1.8058	0.3766%	18058	7005	2.6	2				1.0000E-04
132	16.360		2.5892	0.5400%	25892	10515	2.5	2				1.0000E-04
133	16.445		10.0585	2.0978%	100585	40360	2.5	2				1.0000E-04

TOTAL AMOUNT = 479.4779

D76B96
P3
11.30.93
QMB

Areas, times, and heights stored in: 0:076A82.ATB
Data File = 0:076A82.PTS Printed on 11-30-1993 at 10:55:47
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 40 millivolts

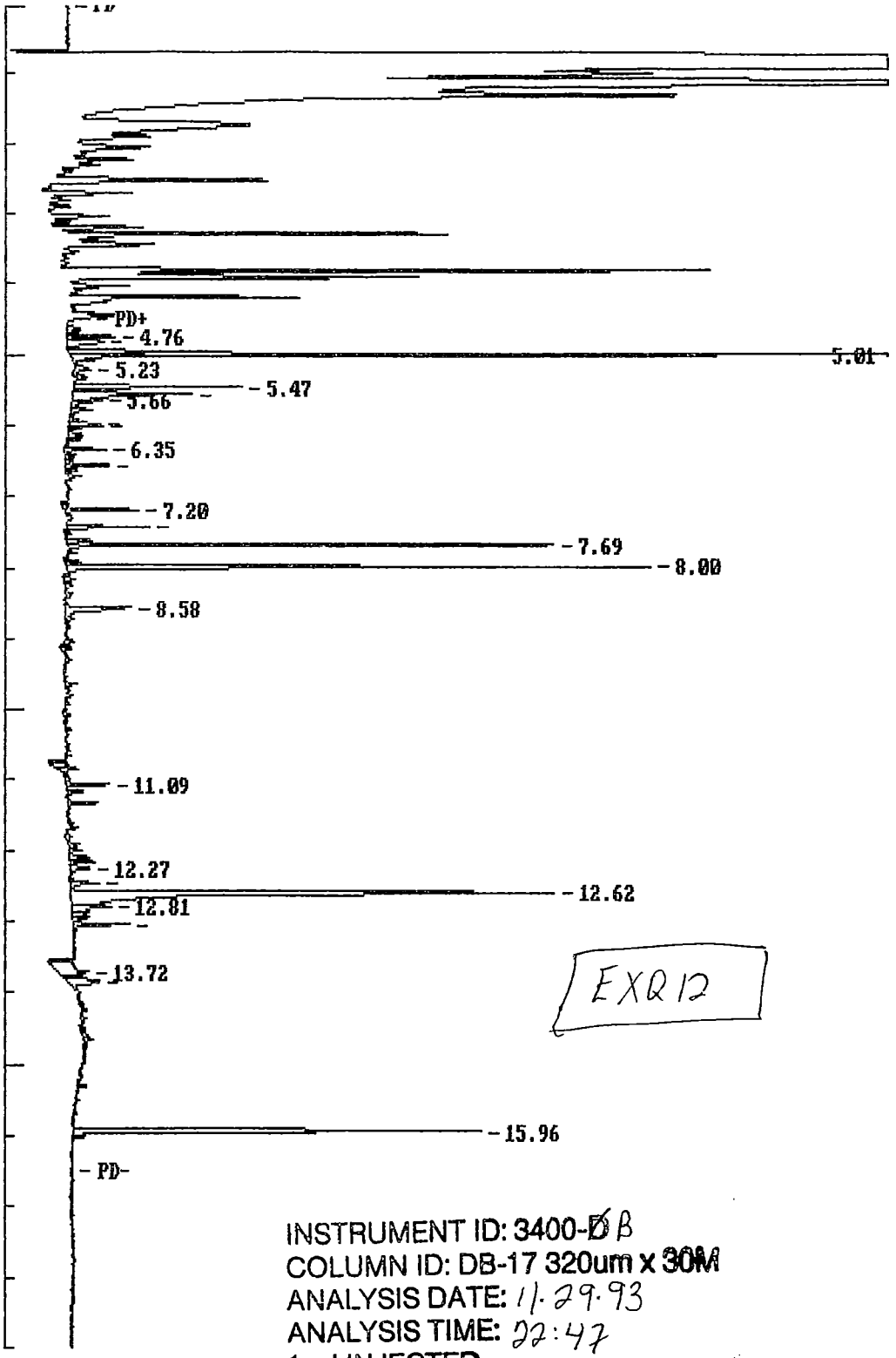


EXQ12

INSTRUMENT ID: 3400-~~C~~ A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-29-93
ANALYSIS TIME: 22:47
1 ul INJECTED

11-30-93
BMG

Areas, times, and heights stored in: O:076B82.ATB
Data File = O:076B82.PTS Printed on 11-30-1993 at 12:14:15
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 50 millivolts



EXQ12

INSTRUMENT ID: 3400-DB
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11.29.93
ANALYSIS TIME: 22:47
1 ul INJECTED

11.30.93
BMG

EXTERNAL STANDARD TABLE

********** 11-30-1993 10:55:41 Version 5.1 **********

* Sample Name: EX012/23955,,; Data File: 0:076A82 *
* Date: 11-29-1993 22:47:10 Method: 0:076AB 11-30-1993 10:37:36 # 862 *
* Interface: 1 Cycle#: 82 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.450	TCX	1.5333	10.0787%	52298	29386	1.8	2	2	0	2.9318E-05
3	4.525		3.1048	20.4090%	31048	18766	1.7	2			1.0000E-04
4	4.710		0.6314	4.1505%	6314	2608	2.4	1			1.0000E-04
6	5.040		0.3609	2.3725%	3609	1798	2.0	2			1.0000E-04
7	5.080		0.5758	3.7850%	5758	3294	1.7	2			1.0000E-04
13	5.730		1.2451	8.1848%	12451	8151	1.5	1			1.0000E-04
17	6.345		0.4745	3.1191%	4745	2044	2.3	2			1.0000E-04
23	7.620		0.5703	3.7487%	5703	3253	1.8	1			1.0000E-04
24	8.020	beta-BHC Conf-	1.0375	6.8198%	17230	8844	1.9	2	2	-.3962	6.0215E-05
50	12.425		2.2505	14.7932%	22505	8185	2.7	2			1.0000E-04
53	13.490		0.3633	2.3883%	3633	1341	2.7	2			1.0000E-04
57	14.440	DCB	3.0655	20.1504%	31050	17292	1.8	1	2	0	9.8726E-05

TOTAL AMOUNT = 15.2128

11-30-93
BMB

++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-30-1993 12:13:46 Version 5.1 **********

* Sample Name: EXQ12/23955,,; Data File: O:076B82 *

* Date: 11-29-1993 22:47:15 Method: O:076BB 11-30-1993 11:14:42 # 886 *

* Interface: 2 Cycle#: 82 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	4.755		0.5540	1.6197%	5540	2754	2.0	2			1.0000E-04
4	4.830		0.8064	2.3574%	8064	2046	3.9	2			1.0000E-04
5	4.965		0.9381	2.7425%	9381	5857	1.6	2			1.0000E-04
6	5.010	TCX	0.0141	0.0412%	103994	56055	1.9	3	6	0	1.3549E-07
8	5.225		0.3583	1.0474%	3583	980	3.7	1			1.0000E-04
10	5.465		1.5665	4.5797%	15665	9567	1.6	1			1.0000E-04
11	5.565		1.9017	5.5595%	19017	6775	2.8	2			1.0000E-04
12	5.660		0.6257	1.8291%	6257	1716	3.6	2			1.0000E-04
15	5.985		0.3813	1.1148%	3813	1819	2.1	2			1.0000E-04
16	6.015		0.5366	1.5688%	5366	2000	2.7	2			1.0000E-04
19	6.345		0.4603	1.3456%	4603	2372	1.9	2			1.0000E-04
22	6.565		0.5500	1.6079%	5500	2501	2.2	2			1.0000E-04
26	7.200	gamma-BHC	0.0007	0.0021%	7743	4124	1.9	2	6	.1996	9.1880E-08
27	7.440		0.7986	2.3346%	7986	4806	1.7	1			1.0000E-04
30	7.685		5.1092	14.9364%	51092	27754	1.8	2			1.0000E-04
33	8.000		5.9573	17.4159%	59573	33297	1.8	2			1.0000E-04
37	8.575		1.3186	3.8550%	13186	3756	3.5	3			1.0000E-04
53	11.085		0.4414	1.2905%	4414	2477	1.8	2			1.0000E-04
63	12.270	Endrin Aldehyde	0.0007	0.0020%	3985	1118	3.6	2	6	.1180	1.7436E-07
65	12.485	Endo. sulfate	0.0006	0.0019%	4047	1651	2.5	2	6	0	1.5764E-07
66	12.615		10.4333	30.5013%	104333	27655	3.8	2			1.0000E-04
67	12.810		0.7361	2.1520%	7361	2221	3.3	2			1.0000E-04
70	13.060		0.7059	2.0636%	7059	3196	2.2	2			1.0000E-04
71	13.720	Methoxychlor	0.0017	0.0049%	13341	1610	8.3	2	6	0	1.2466E-07
73	13.860	Endrin Ketone	0.0033	0.0097%	7634	1658	4.6	2	6	.3444	4.3502E-07
80	15.955	DCB	0.0057	0.0168%	55004	23281	2.4	2	6	.1054	1.0420E-07

TOTAL AMOUNT = 34.2061

IV PESTICIDE STANDARDS DATA

CASE # 21170
SDG # EXQ02

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 3400-A Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-1701 ID: 0.32(mm) Date(s) Analyzed: 11/22/93 11/23/93

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	6.02	6.03	6.03	6.03	5.98	6.08
beta-BHC	8.08	8.07	8.07	8.07	8.02	8.12
delta-BHC	8.44	8.44	8.44	8.44	8.39	8.49
gamma-BHC (Lindane)	6.74	6.74	6.74	6.74	6.69	6.79
Heptachlor	7.12	7.14	7.13	7.13	7.08	7.18
Aldrin	7.58	7.58	7.58	7.58	7.53	7.63
Heptachlor epoxide	8.79	8.78	8.78	8.78	8.71	8.85
Endosulfan I	9.24	9.24	9.24	9.24	9.17	9.31
Dieldrin	9.86	9.86	9.86	9.86	9.79	9.93
4,4'-DDE	9.66	9.66	9.66	9.66	9.59	9.73
Endrin	10.20	10.20	10.20	10.20	10.13	10.27
Endosulfan II	11.00	10.99	10.99	10.99	10.92	11.06
4,4'-DDD	10.95	10.96	10.96	10.96	10.89	11.03
Endosulfan sulfate	12.19	12.18	12.18	12.18	12.11	12.25
4,4'-DDT	11.24	11.26	11.25	11.25	11.18	11.32
Methoxychlor	12.32	12.32	12.32	12.32	12.25	12.39
Endrin ketone	12.80	12.80	12.80	12.80	12.73	12.87
Endrin aldehyde	11.66	11.65	11.65	11.65	11.58	11.72
alpha Chlordane	9.48	9.48	9.48	9.48	9.41	9.55
gamma Chlordane	9.34	9.34	9.34	9.34	9.27	9.41
Tetrachloro-m-xylene	4.46	4.46	4.46	4.46	4.41	4.51
Decachlorobiphenyl	14.45	14.46	14.46	14.46	14.36	14.56

* Surrogate retention times are measured from Standard Mix A analyses

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +/- 0.07 minutes for all other compounds, except +/- 0.10 minutes for Decachlorobiphenyl.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 3400-B Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-17 ID: 0.32(mm) Date(s) Analyzed: 11/22/93 11/23/93

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	6.43	6.44	6.44	6.44	6.39	6.49
beta-BHC	7.38	7.38	7.38	7.38	7.33	7.43
delta-BHC	8.06	8.06	8.06	8.06	8.01	8.11
gamma-BHC (Lindane)	7.20	7.20	7.20	7.20	7.15	7.25
Heptachlor	7.79	7.80	7.80	7.80	7.75	7.85
Aldrin	8.40	8.39	8.39	8.39	8.34	8.44
Heptachlor epoxide	9.48	9.48	9.48	9.48	9.41	9.55
Endosulfan I	10.12	10.12	10.12	10.12	10.05	10.19
Dieldrin	10.68	10.69	10.68	10.68	10.61	10.75
4,4'-DDE	10.62	10.62	10.62	10.62	10.55	10.69
Endrin	11.34	11.34	11.34	11.34	11.27	11.41
Endosulfan II	11.68	11.68	11.68	11.68	11.61	11.75
4,4'-DDD	11.62	11.64	11.63	11.63	11.56	11.70
Endosulfan sulfate	12.50	12.50	12.50	12.50	12.43	12.57
4,4'-DDT	12.15	12.16	12.16	12.16	12.09	12.23
Methoxychlor	13.74	13.74	13.74	13.74	13.67	13.81
Endrin ketone	13.84	13.84	13.84	13.84	13.77	13.91
Endrin aldehyde	12.28	12.28	12.28	12.28	12.21	12.35
alpha Chlordane	10.09	10.08	10.08	10.08	10.01	10.15
gamma Chlordane	9.78	9.78	9.78	9.78	9.71	9.85
Tetrachloro-m-xylene	5.01	5.02	5.02	5.02	4.97	5.07
Decachlorobiphenyl	15.96	15.98	15.97	15.97	15.87	16.07

* Surrogate retention times are measured from Standard Mix A analyses

Retention time windows are +/- 0.05 minutes for all compounds that elute before Heptachlor epoxide, +/- 0.07 minutes for all other compounds, except +/- 0.10 minutes for Decachlorobiphenyl.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 3400-A Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-1701 ID: 0.32(mm) Date(s) Analyzed: 11/22/93 11/23/93

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	5450000	5580000	5260000	5430000	3.0
beta-BHC	2120000	2100000	1840000	2020000	7.7
delta-BHC	4420000	4650000	4440000	4500000	2.8
gamma-BHC (Lindane)	5270000	5160000	4800000	5080000	4.8
Heptachlor	4270000	4330000	4080000	4230000	3.1
Aldrin	4840000	4910000	4510000	4750000	4.5
Heptachlor epoxide	4440000	4530000	4160000	4380000	4.4
Endosulfan I	4590000	4550000	4140000	4430000	5.6
Dieldrin	4180000	4180000	3960000	4110000	3.1
4,4'-DDE	4200000	4270000	4070000	4180000	2.4
Endrin	3440000	3350000	3020000	3270000	6.8
Endosulfan II	4000000	4000000	3660000	3890000	5.1
4,4'-DDD	2870000	3000000	2820000	2900000	3.2
Endosulfan sulfate	3230000	3190000	2950000	3120000	4.8
4,4'-DDT	2670000	2540000	2450000	2550000	4.3
Methoxychlor	951000	924000	861000	912000	5.1
Endrin ketone	3260000	3200000	2960000	3140000	5.1
Endrin aldehyde	2330000	2720000	2540000	2530000	7.7
alpha Chlordane	4700000	4710000	4270000	4560000	5.5
gamma Chlordane	4860000	4900000	4520000	4760000	4.4
Tetrachloro-m-xylene	3510000	3370000	3070000	3320000	6.8
Decachlorobiphenyl	2720000	2460000	2090000	2420000	13.1

* Surrogate calibration factors are measured from Standard Mix A analyses

%RSD must be less than or equal 20.0% for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 3400-B Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-17 ID: 0.32(mm) Date(s) Analyzed: 11/22/93 11/23/93

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	10500000	10400000	10500000	10500000	0.6
beta-BHC	3840000	3680000	3270000	3600000	8.2
delta-BHC	8740000	8730000	8740000	8740000	0.1
gamma-BHC (Lindane)	10200000	9470000	9370000	9680000	4.7
Heptachlor	8340000	8270000	8040000	8220000	1.9
Aldrin	8880000	8750000	8440000	8690000	2.6
Heptachlor epoxide	8220000	8010000	7670000	7970000	3.5
Endosulfan I	8720000	8070000	7530000	8110000	7.4
Dieldrin	7540000	6870000	6870000	7090000	5.5
4,4'-DDE	8710000	7740000	8000000	8150000	6.2
Endrin	5650000	5510000	5200000	5450000	4.2
Endosulfan II	7150000	6920000	6850000	6970000	2.3
4,4'-DDD	4750000	4800000	4790000	4780000	0.6
Endosulfan sulfate	5870000	5650000	5500000	5670000	3.3
4,4'-DDT	4830000	4820000	4970000	4870000	1.7
Methoxychlor	1580000	1520000	1530000	1540000	2.1
Endrin ketone	5850000	5670000	5760000	5760000	1.6
Endrin aldehyde	4660000	4470000	4380000	4500000	3.2
alpha Chlordane	8800000	9300000	9090000	9060000	2.8
gamma Chlordane	8860000	8670000	8360000	8630000	2.9
Tetrachloro-m-xylene	6740000	6150000	5540000	6140000	9.8
Decachlorobiphenyl	4720000	4290000	3730000	4250000	11.7

* Surrogate calibration factors are measured from Standard Mix A analyses

%RSD must be less than or equal 20.0% for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 3400-A Date(s) Analyzed: 11/22/93 11/22/93

GC Column: DB-1701 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.500	*1	10.18	10.11	10.25	68200
		*2	11.44	11.37	11.51	93800
		*3	11.66	11.59	11.73	105000
		4				
		5				
Aroclor 1016	0.100	*1	5.03	4.96	5.10	56000
		*2	6.17	6.10	6.24	120000
		*3	6.58	6.51	6.65	56700
		4				
		5				
Aroclor 1221	0.200	*1	5.04	4.97	5.11	25400
		*2	5.10	5.03	5.17	41100
		*3	5.46	5.39	5.53	102000
		4				
		5				
Aroclor 1232	0.100	*1	5.46	5.39	5.53	167000
		*2	6.18	6.11	6.25	89400
		*3	6.96	6.89	7.03	200000
		4				
		5				
Aroclor 1242	0.100	*1	6.18	6.11	6.25	96200
		*2	6.98	6.91	7.05	204000
		*3	7.21	7.14	7.28	84800
		4	7.38	7.31	7.45	54800
		5	8.20	8.13	8.27	106000
Aroclor 1248	0.100	*1	7.58	7.51	7.65	75100
		*2	8.02	7.95	8.09	146000
		*3	8.73	8.66	8.80	139000
		4				
		5				
Aroclor 1254	0.100	*1	9.82	9.75	9.89	226000
		*2	10.23	10.16	10.30	156000
		*3	10.50	10.43	10.57	111000
		4	10.78	10.71	10.85	127000
		5	11.06	10.99	11.13	242000
Aroclor 1260	0.100	*1	10.10	10.03	10.17	163000
		*2	11.04	10.97	11.11	318000
		*3	12.14	12.07	12.21	340000
		4	12.70	12.63	12.77	256000
		5	13.72	13.65	13.79	88600

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Instrument ID: 3400-B Date(s) Analyzed: 11/22/93 11/22/93

GC Column: DB-17 ID: 0.32(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.500	*1	11.72	11.65	11.79	233000
		*2	12.50	12.43	12.57	58200
		*3	13.16	13.09	13.23	169000
		4				
		5				
Aroclor 1016	0.100	*1	6.36	6.29	6.43	96200
		*2	8.18	8.11	8.25	161000
		*3	9.08	9.01	9.15	128000
		4				
		5				
Aroclor 1221	0.200	*1	5.20	5.13	5.27	187000
		*2	6.00	5.93	6.07	187000
		*3	6.37	6.30	6.44	135000
		4				
		5				
Aroclor 1232	0.100	*1	7.18	7.11	7.25	217000
		*2	7.88	7.81	7.95	370000
		*3	8.18	8.11	8.25	135000
		4				
		5				
Aroclor 1242	0.100	*1	7.19	7.12	7.26	185000
		*2	7.89	7.82	7.96	378000
		*3	8.19	8.12	8.26	136000
		4	9.68	9.61	9.75	154000
		5	10.19	10.12	10.26	146000
Aroclor 1248	0.100	*1	7.88	7.81	7.95	322000
		*2	9.08	9.01	9.15	165000
		*3	10.18	10.11	10.25	251000
		4				
		5				
Aroclor 1254	0.100	*1	10.89	10.82	10.96	554000
		*2	11.10	11.03	11.17	440000
		*3	11.21	11.14	11.28	286000
		4	11.86	11.79	11.93	177000
		5	12.14	12.07	12.21	397000
Aroclor 1260	0.100	*1	10.88	10.81	10.95	315000
		*2	11.20	11.13	11.27	430000
		*3	12.82	12.75	12.89	310000
		4	13.06	12.99	13.13	873000
		5	13.86	13.79	13.93	395000

* Denotes required peaks

6G

PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column (1): DB-1701 ID: 0.32(mm) Instrument ID (1): 3400-A

EPA Sample No. (Standard 1): RESC01 Lab Sample ID (1): RESC01

Date Analyzed (1): 11/22/93 Time Analyzed (1): 1743

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.46	100.0
02	Endosulfan I	9.23	100.0
03	gamma-Chlordane	9.34	100.0
04	4,4'-DDE	9.66	100.0
05	Dieldrin	9.86	100.0
06	Endosulfan sulfate	12.19	100.0
07	Methoxychlor	12.32	100.0
08	Endrin ketone	12.80	100.0
09	Decachlorobiphenyl	14.44	

GC Column (2): DB-17 ID: 0.32(mm) Instrument ID (2): 3400-B

EPA Sample No. (Standard 2): RESC01 Lab Sample ID (2): RESC01

Date Analyzed (2): 11/22/93 Time Analyzed (2): 1743

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.01	100.0
02	gamma-Chlordane	9.78	100.0
03	Endosulfan I	10.11	100.0
04	4,4'-DDE	10.62	80.0
05	Dieldrin	10.68	100.0
06	Endosulfan sulfate	12.50	100.0
07	Methoxychlor	13.73	90.0
08	Endrin ketone	13.84	100.0
09	Decachlorobiphenyl	15.96	

Resolution of two adjacent peaks must be calculated as a percentage of the height of the smaller peak, and must be greater than or equal to 60.0%.

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-1701 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK01 Date Analyzed : 11/22/93

Lab Sample ID (PIBLK): PIBLK01 Time Analyzed : 1716

EPA Sample No. (PEM): PEM01 Date Analyzed : 11/22/93

Lab Sample ID (PEM): PEM01 Time Analyzed : 1810

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.03	5.98	6.08	0.010	0.010	0.0
beta-BHC	8.08	8.02	8.12	0.010	0.010	0.0
gamma-BHC (Lindane)	6.74	6.69	6.79	0.010	0.010	0.0
Endrin	10.20	10.13	10.27	0.047	0.050	6.0
4,4'-DDT	11.26	11.18	11.32	0.089	0.100	11.0
Methoxychlor	12.32	12.25	12.39	0.213	0.250	14.8

4,4'-DDT % breakdown (1): 1.3 Endrin % breakdown (1): 14.8

Combined % breakdown (1): 16.1

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-1701 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK02 Date Analyzed : 11/23/93

Lab Sample ID (PIBLK): PIBLK02 Time Analyzed : 0030

EPA Sample No. (PEM): PEM02 Date Analyzed : 11/23/93

Lab Sample ID (PEM): PEM02 Time Analyzed : 0057

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.02	5.98	6.08	0.010	0.010	0.0
beta-BHC	8.07	8.02	8.12	0.010	0.010	0.0
gamma-BHC (Lindane)	6.73	6.69	6.79	0.010	0.010	0.0
Endrin	10.20	10.13	10.27	0.051	0.050	2.0
4,4'-DDT	11.24	11.18	11.32	0.100	0.100	0.0
Methoxychlor	12.32	12.25	12.39	0.266	0.250	6.4

4,4'-DDT % breakdown (1): 1.3 Endrin % breakdown (1): 18.2

Combined % breakdown (1): 19.5

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-1701 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK04 Date Analyzed : 11/24/93

Lab Sample ID (PIBLK): PIBLK04 Time Analyzed : 0931

EPA Sample No. (PEM): PEM03 Date Analyzed : 11/24/93

Lab Sample ID (PEM): PEM03 Time Analyzed : 0958

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.02	5.98	6.08	0.010	0.010	0.0
beta-BHC	8.07	8.02	8.12	0.010	0.010	0.0
gamma-BHC (Lindane)	6.73	6.69	6.79	0.010	0.010	0.0
Endrin	10.20	10.13	10.27	0.039	0.050	22.0
4,4'-DDT	11.24	11.18	11.32	0.079	0.100	21.0
Methoxychlor	12.32	12.25	12.39	0.214	0.250	14.4

4,4'-DDT % breakdown (1): 1.5 Endrin % breakdown (1): 15.0

Combined % breakdown (1): 16.5

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-1701 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK06 Date Analyzed : 11/29/93

Lab Sample ID (PIBLK): PIBLK06 Time Analyzed : 0858

EPA Sample No. (PEM): PEM04 Date Analyzed : 11/29/93

Lab Sample ID (PEM): PEM04 Time Analyzed : 0945

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.02	5.98	6.08	0.010	0.010	0.0
beta-BHC	8.07	8.02	8.12	0.010	0.010	0.0
gamma-BHC (Lindane)	6.73	6.69	6.79	0.010	0.010	0.0
Endrin	10.20	10.13	10.27	0.044	0.050	12.0
4,4'-DDT	11.24	11.18	11.32	0.083	0.100	17.0
Methoxychlor	12.31	12.25	12.39	0.214	0.250	14.4

4,4'-DDT % breakdown (1): 1.3 Endrin % breakdown (1): 17.0

Combined % breakdown (1): 18.3

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-1701 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK08 Date Analyzed : 11/30/93

Lab Sample ID (PIBLK): PIBLK08 Time Analyzed : 0814

EPA Sample No. (PEM): PEM05 Date Analyzed : 11/30/93

Lab Sample ID (PEM): PEM05 Time Analyzed : 0920

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.04	5.98	6.08	0.009	0.010	10.0
beta-BHC	8.08	8.02	8.12	0.009	0.010	10.0
gamma-BHC (Lindane)	6.74	6.69	6.79	0.009	0.010	10.0
Endrin	10.20	10.13	10.27	0.046	0.050	8.0
4,4'-DDT	11.25	11.18	11.32	0.089	0.100	11.0
Methoxychlor	12.32	12.25	12.39	0.274	0.250	9.6

4,4'-DDT % breakdown (1): 1.5 Endrin % breakdown (1): 11.8

Combined % breakdown (1): 13.3

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-17 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK01 Date Analyzed : 11/22/93

Lab Sample ID (PIBLK): PIBLK01 Time Analyzed : 1716

EPA Sample No. (PEM): PEM01 Date Analyzed : 11/22/93

Lab Sample ID (PEM): PEM01 Time Analyzed : 1810

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.44	6.39	6.49	0.010	0.010	0.0
beta-BHC	7.39	7.33	7.43	0.011	0.010	10.0
gamma-BHC (Lindane)	7.20	7.15	7.25	0.011	0.010	10.0
Endrin	11.34	11.27	11.41	0.048	0.050	4.0
4,4'-DDT	12.16	12.09	12.23	0.095	0.100	5.0
Methoxychlor	13.74	13.67	13.81	0.226	0.250	9.6

4,4'-DDT % breakdown (1): 2.8 Endrin % breakdown (1): 15.0

Combined % breakdown (1): 17.8

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-17 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK02 Date Analyzed : 11/23/93

Lab Sample ID (PIBLK): PIBLK02 Time Analyzed : 0030

EPA Sample No. (PEM): PEM02 Date Analyzed : 11/23/93

Lab Sample ID (PEM): PEM02 Time Analyzed : 0057

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.42	6.39	6.49	0.010	0.010	0.0
beta-BHC	7.38	7.33	7.43	0.010	0.010	0.0
gamma-BHC (Lindane)	7.20	7.15	7.25	0.010	0.010	0.0
Endrin	11.34	11.27	11.41	0.050	0.050	0.0
4,4'-DDT	12.15	12.09	12.23	0.103	0.100	3.0
Methoxychlor	13.73	13.67	13.81	0.267	0.250	6.8

4,4'-DDT % breakdown (1): 3.0 Endrin % breakdown (1): 19.8

Combined % breakdown (1): 22.8

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-17 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK04 Date Analyzed : 11/24/93

Lab Sample ID (PIBLK): PIBLK04 Time Analyzed : 0931

EPA Sample No. (PEM): PEM03 Date Analyzed : 11/24/93

Lab Sample ID (PEM): PEM03 Time Analyzed : 0958

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.43	6.39	6.49	0.010	0.010	0.0
beta-BHC	7.38	7.33	7.43	0.010	0.010	0.0
gamma-BHC (Lindane)	7.20	7.15	7.25	0.010	0.010	0.0
Endrin	11.34	11.27	11.41	0.047	0.050	6.0
4,4'-DDT	12.15	12.09	12.23	0.098	0.100	2.0
Methoxychlor	13.74	13.67	13.81	0.272	0.250	8.8

4,4'-DDT % breakdown (1): 2.5 Endrin % breakdown (1): 19.6

Combined % breakdown (1): 22.1

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-17 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK06 Date Analyzed : 11/29/93

Lab Sample ID (PIBLK): PIBLK06 Time Analyzed : 0858

EPA Sample No. (PEM): PEM04 Date Analyzed : 11/29/93

Lab Sample ID (PEM): PEM04 Time Analyzed : 0945

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.42	6.39	6.49	0.010	0.010	0.0
beta-BHC	7.38	7.33	7.43	0.010	0.010	0.0
gamma-BHC (Lindane)	7.20	7.15	7.25	0.010	0.010	0.0
Endrin	11.33	11.27	11.41	0.042	0.050	16.0
4,4'-DDT	12.15	12.09	12.23	0.094	0.100	6.0
Methoxychlor	13.73	13.67	13.81	0.206	0.250	17.6

4,4'-DDT % breakdown (1): 1.9 Endrin % breakdown (1): 18.8

Combined % breakdown (1): 20.7

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-17 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK08 Date Analyzed : 11/30/93

Lab Sample ID (PIBLK): PIBLK08 Time Analyzed : 0815

EPA Sample No. (PEM): PEM05 Date Analyzed : 11/30/93

Lab Sample ID (PEM): PEM05 Time Analyzed : 0920

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.44	6.39	6.49	0.009	0.010	10.0
beta-BHC	7.39	7.33	7.43	0.010	0.010	0.0
gamma-BHC (Lindane)	7.20	7.15	7.25	0.010	0.010	0.0
Endrin	11.34	11.27	11.41	0.047	0.050	6.0
4,4'-DDT	12.16	12.09	12.23	0.089	0.100	11.0
Methoxychlor	13.74	13.67	13.81	0.274	0.250	9.6

4,4'-DDT % breakdown (1): 2.5 Endrin % breakdown (1): 12.8

Combined % breakdown (1): 15.3

QC LIMITS:

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-1701 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK03 Date Analyzed : 11/23/93

Lab Sample ID (PIBLK): PIBLK03 Time Analyzed : 0904

EPA Sample No. (INDA): INDAM02 Date Analyzed : 11/23/93

Lab Sample ID (INDA): INDAM02 Time Analyzed : 0931

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.03	5.98	6.08	0.0202	0.0200	1.0
gamma-BHC (Lindane)	6.74	6.69	6.79	0.0202	0.0200	1.0
Heptachlor	7.14	7.08	7.18	0.0194	0.0200	3.0
Endosulfan I	9.24	9.17	9.31	0.0201	0.0200	0.5
Dieldrin	9.86	9.79	9.93	0.0413	0.0400	3.2
Endrin	10.20	10.13	10.27	0.0388	0.0400	3.0
4,4'-DDD	10.96	10.89	11.03	0.0421	0.0400	5.2
4,4'-DDT	11.25	11.18	11.32	0.0411	0.0400	2.8
Methoxychlor	12.32	12.25	12.39	0.222	0.200	11.0
Tetrachloro-m-xylene	4.46	4.41	4.51	0.0201	0.0200	0.5
Decachlorobiphenyl	14.46	14.36	14.56	0.0426	0.0400	6.5

EPA Sample No. (INDB): INDBM02 Date Analyzed : 11/23/93

Lab Sample ID (INDB): INDBM02 Time Analyzed : 0958

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	8.07	8.02	8.12	0.0204	0.0200	2.0
delta-BHC	8.44	8.39	8.49	0.0204	0.0200	2.0
Aldrin	7.58	7.53	7.63	0.0203	0.0200	1.5
Heptachlor epoxide	8.78	8.71	8.85	0.0205	0.0200	2.5
4,4'-DDE	9.66	9.59	9.73	0.0409	0.0400	2.2
Endosulfan II	11.00	10.92	11.06	0.0399	0.0400	0.2
Endosulfan sulfate	12.19	12.11	12.25	0.0416	0.0400	4.0
Endrin ketone	12.80	12.73	12.87	0.0421	0.0400	5.2
Endrin aldehyde	11.66	11.58	11.72	0.0404	0.0400	1.0
alpha-Chlordane	9.48	9.41	9.55	0.0204	0.0200	2.0
gamma-Chlordane	9.34	9.27	9.41	0.0204	0.0200	2.0
Tetrachloro-m-xylene	4.46	4.41	4.51	0.0206	0.0200	3.0
Decachlorobiphenyl	14.44	14.36	14.56	0.0429	0.0400	7.2

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-1701 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK05 Date Analyzed : 11/24/93

Lab Sample ID (PIBLK): PIBLK05 Time Analyzed : 1524

EPA Sample No. (INDA): INDAM03 Date Analyzed : 11/24/93

Lab Sample ID (INDA): INDAM03 Time Analyzed : 1551

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.02	5.98	6.08	0.0211	0.0200	5.5
gamma-BHC (Lindane)	6.73	6.69	6.79	0.0211	0.0200	5.5
Heptachlor	7.12	7.08	7.18	0.0202	0.0200	1.0
Endosulfan I	9.23	9.17	9.31	0.0212	0.0200	6.0
Dieldrin	9.86	9.79	9.93	0.0437	0.0400	9.2
Endrin	10.20	10.13	10.27	0.0419	0.0400	4.8
4,4'-DDD	10.95	10.89	11.03	0.0450	0.0400	12.5
4,4'-DDT	11.24	11.18	11.32	0.0429	0.0400	7.2
Methoxychlor	12.32	12.25	12.39	0.238	0.200	19.0
Tetrachloro-m-xylene	4.46	4.41	4.51	0.0210	0.0200	5.0
Decachlorobiphenyl	14.44	14.36	14.56	0.0443	0.0400	10.8

EPA Sample No. (INDB): INDBM03 Date Analyzed : 11/24/93

Lab Sample ID (INDB): INDBM03 Time Analyzed : 1618

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	8.08	8.02	8.12	0.0210	0.0200	5.0
delta-BHC	8.44	8.39	8.49	0.0210	0.0200	5.0
Aldrin	7.59	7.53	7.63	0.0208	0.0200	4.0
Heptachlor epoxide	8.80	8.71	8.85	0.0211	0.0200	5.5
4,4'-DDE	9.66	9.59	9.73	0.0418	0.0400	4.5
Endosulfan II	11.00	10.92	11.06	0.0418	0.0400	4.5
Endosulfan sulfate	12.20	12.11	12.25	0.0429	0.0400	7.2
Endrin ketone	12.81	12.73	12.87	0.0440	0.0400	10.0
Endrin aldehyde	11.66	11.58	11.72	0.0405	0.0400	1.2
alpha-Chlordane	9.48	9.41	9.55	0.0208	0.0200	4.0
gamma-Chlordane	9.35	9.27	9.41	0.0209	0.0200	4.5
Tetrachloro-m-xylene	4.46	4.41	4.51	0.0209	0.0200	4.5
Decachlorobiphenyl	14.46	14.36	14.56	0.0447	0.0400	11.8

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-1701 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK07 Date Analyzed : 11/29/93

Lab Sample ID (PIBLK): PIBLK07 Time Analyzed : 2058

EPA Sample No. (INDA): INDAM04 Date Analyzed : 11/29/93

Lab Sample ID (INDA): INDAM04 Time Analyzed : 2126

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.02	5.98	6.08	0.0195	0.0200	2.5
gamma-BHC (Lindane)	6.74	6.69	6.79	0.0196	0.0200	2.0
Heptachlor	7.13	7.08	7.18	0.0191	0.0200	4.5
Endosulfan I	9.24	9.17	9.31	0.0198	0.0200	1.0
Dieldrin	9.86	9.79	9.93	0.0415	0.0400	3.8
Endrin	10.20	10.13	10.27	0.0404	0.0400	1.0
4,4'-DDD	10.96	10.89	11.03	0.0428	0.0400	7.0
4,4'-DDT	11.24	11.18	11.32	0.0412	0.0400	3.0
Methoxychlor	12.32	12.25	12.39	0.232	0.200	16.0
Tetrachloro-m-xylene	4.46	4.41	4.51	0.0188	0.0200	6.0
Decachlorobiphenyl	14.45	14.36	14.56	0.0418	0.0400	4.5

EPA Sample No. (INDB): INDBM04 Date Analyzed : 11/29/93

Lab Sample ID (INDB): INDBM04 Time Analyzed : 2153

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	8.06	8.02	8.12	0.0195	0.0200	2.5
delta-BHC	8.43	8.39	8.49	0.0194	0.0200	3.0
Aldrin	7.58	7.53	7.63	0.0192	0.0200	4.0
Heptachlor epoxide	8.78	8.71	8.85	0.0195	0.0200	2.5
4,4'-DDE	9.65	9.59	9.73	0.0386	0.0400	3.5
Endosulfan II	10.98	10.92	11.06	0.0387	0.0400	3.2
Endosulfan sulfate	12.18	12.11	12.25	0.0400	0.0400	0.0
Endrin ketone	12.80	12.73	12.87	0.0409	0.0400	2.2
Endrin aldehyde	11.64	11.58	11.72	0.0375	0.0400	6.2
alpha-Chlordane	9.48	9.41	9.55	0.0193	0.0200	3.5
gamma-Chlordane	9.34	9.27	9.41	0.0194	0.0200	3.0
Tetrachloro-m-xylene	4.45	4.41	4.51	0.0194	0.0200	3.0
Decachlorobiphenyl	14.44	14.36	14.56	0.0412	0.0400	3.0

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-17 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK03 Date Analyzed : 11/23/93

Lab Sample ID (PIBLK): PIBLK03 Time Analyzed : 0904

EPA Sample No. (INDA): INDAM02 Date Analyzed : 11/23/93

Lab Sample ID (INDA): INDAM02 Time Analyzed : 0931

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.44	6.39	6.49	0.0203	0.0200	1.5
gamma-BHC (Lindane)	7.20	7.15	7.25	0.0205	0.0200	2.5
Heptachlor	7.80	7.75	7.85	0.0202	0.0200	1.0
Endosulfan I	10.12	10.05	10.19	0.0203	0.0200	1.5
Dieldrin	10.68	10.61	10.75	0.0433	0.0400	8.2
Endrin	11.34	11.27	11.41	0.0406	0.0400	1.5
4,4'-DDD	11.64	11.56	11.70	0.0446	0.0400	11.5
4,4'-DDT	12.16	12.09	12.23	0.0421	0.0400	5.2
Methoxychlor	13.74	13.67	13.81	0.235	0.200	17.5
Tetrachloro-m-xylene	5.02	4.97	5.07	0.0201	0.0200	0.5
Decachlorobiphenyl	15.97	15.87	16.07	0.0431	0.0400	7.8

EPA Sample No. (INDB): INDBM02 Date Analyzed : 11/23/93

Lab Sample ID (INDB): INDBM02 Time Analyzed : 0958

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	7.38	7.33	7.43	0.0207	0.0200	3.5
delta-BHC	8.06	8.01	8.11	0.0207	0.0200	3.5
Aldrin	8.39	8.34	8.44	0.0205	0.0200	2.5
Heptachlor epoxide	9.48	9.41	9.55	0.0208	0.0200	4.0
4,4'-DDE	10.62	10.55	10.69	0.0416	0.0400	4.0
Endosulfan II	11.68	11.61	11.75	0.0413	0.0400	3.2
Endosulfan sulfate	12.50	12.43	12.57	0.0424	0.0400	6.0
Endrin ketone	13.84	13.77	13.91	0.0442	0.0400	10.5
Endrin aldehyde	12.28	12.21	12.35	0.0420	0.0400	5.0
alpha-Chlordane	10.08	10.01	10.15	0.0182	0.0200	9.0
gamma-Chlordane	9.78	9.71	9.85	0.0206	0.0200	3.0
Tetrachloro-m-xylene	5.01	4.97	5.07	0.0204	0.0200	2.0
Decachlorobiphenyl	15.96	15.87	16.07	0.0432	0.0400	8.0

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-17 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK05 Date Analyzed : 11/24/93

Lab Sample ID (PIBLK): PIBLK05 Time Analyzed : 1524

EPA Sample No. (INDA): INDAM03 Date Analyzed : 11/24/93

Lab Sample ID (INDA): INDAM03 Time Analyzed : 1551

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.42	6.39	6.49	0.0211	0.0200	5.5
gamma-BHC (Lindane)	7.20	7.15	7.25	0.0212	0.0200	6.0
Heptachlor	7.79	7.75	7.85	0.0202	0.0200	1.0
Endosulfan I	10.11	10.05	10.19	0.0210	0.0200	5.0
Dieldrin	10.68	10.61	10.75	0.0451	0.0400	12.8
Endrin	11.33	11.27	11.41	0.0417	0.0400	4.2
4,4'-DDD	11.62	11.56	11.70	0.0471	0.0400	17.8
4,4'-DDT	12.15	12.09	12.23	0.0431	0.0400	7.8
Methoxychlor	13.73	13.67	13.81	0.250	0.200	25.0
Tetrachloro-m-xylene	5.01	4.97	5.07	0.0206	0.0200	3.0
Decachlorobiphenyl	15.96	15.87	16.07	0.0441	0.0400	10.2

EPA Sample No. (INDB): INDBM03 Date Analyzed : 11/24/93

Lab Sample ID (INDB): INDBM03 Time Analyzed : 1618

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	7.39	7.33	7.43	0.0209	0.0200	4.5
delta-BHC	8.08	8.01	8.11	0.0210	0.0200	5.0
Aldrin	8.40	8.34	8.44	0.0207	0.0200	3.5
Heptachlor epoxide	9.48	9.41	9.55	0.0210	0.0200	5.0
4,4'-DDE	10.62	10.55	10.69	0.0437	0.0400	9.2
Endosulfan II	11.68	11.61	11.75	0.0414	0.0400	3.5
Endosulfan sulfate	12.51	12.43	12.57	0.0431	0.0400	7.8
Endrin ketone	13.84	13.77	13.91	0.0451	0.0400	12.8
Endrin aldehyde	12.29	12.21	12.35	0.0415	0.0400	3.8
alpha-Chlordane	10.10	10.01	10.15	0.0184	0.0200	8.0
gamma-Chlordane	9.79	9.71	9.85	0.0208	0.0200	4.0
Tetrachloro-m-xylene	5.02	4.97	5.07	0.0205	0.0200	2.5
Decachlorobiphenyl	15.97	15.87	16.07	0.0447	0.0400	11.8

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-17 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

EPA Sample No. (PIBLK): PIBLK07 Date Analyzed : 11/29/93

Lab Sample ID (PIBLK): PIBLK07 Time Analyzed : 2059

EPA Sample No. (INDA): INDAM04 Date Analyzed : 11/29/93

Lab Sample ID (INDA): INDAM04 Time Analyzed : 2126

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	6.44	6.39	6.49	0.0202	0.0200	1.0
gamma-BHC (Lindane)	7.20	7.15	7.25	0.0203	0.0200	1.5
Heptachlor	7.80	7.75	7.85	0.0186	0.0200	7.0
Endosulfan I	10.12	10.05	10.19	0.0200	0.0200	0.0
Dieldrin	10.68	10.61	10.75	0.0414	0.0400	3.5
Endrin	11.34	11.27	11.41	0.0411	0.0400	2.8
4,4'-DDD	11.63	11.56	11.70	0.0437	0.0400	9.2
4,4'-DDT	12.16	12.09	12.23	0.0403	0.0400	0.8
Methoxychlor	13.74	13.67	13.81	0.227	0.200	13.5
Tetrachloro-m-xylene	5.02	4.97	5.07	0.0200	0.0200	0.0
Decachlorobiphenyl	15.96	15.87	16.07	0.0434	0.0400	8.5

EPA Sample No. (INDB): INDBM04 Date Analyzed : 11/29/93

Lab Sample ID (INDB): INDBM04 Time Analyzed : 2153

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	7.38	7.33	7.43	0.0201	0.0200	0.5
delta-BHC	8.06	8.01	8.11	0.0201	0.0200	0.5
Aldrin	8.38	8.34	8.44	0.0198	0.0200	1.0
Heptachlor epoxide	9.48	9.41	9.55	0.0197	0.0200	1.5
4,4'-DDE	10.61	10.55	10.69	0.0405	0.0400	1.2
Endosulfan II	11.68	11.61	11.75	0.0391	0.0400	2.2
Endosulfan sulfate	12.50	12.43	12.57	0.0411	0.0400	2.8
Endrin ketone	13.84	13.77	13.91	0.0414	0.0400	3.5
Endrin aldehyde	12.28	12.21	12.35	0.0387	0.0400	3.2
alpha-Chlordane	10.08	10.01	10.15	0.0176	0.0200	12.0
gamma-Chlordane	9.78	9.71	9.85	0.0199	0.0200	0.5
Tetrachloro-m-xylene	5.01	4.97	5.07	0.0198	0.0200	1.0
Decachlorobiphenyl	15.96	15.87	16.07	0.0427	0.0400	6.8

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-1701 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

Instrument ID: 3400-A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.46 DCB: 14.46

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PIBLK01	PIBLK01	11/22/93	1716	4.48	14.46
02	RESC01	RESC01	11/22/93	1743	4.46	14.44
03	PEM01	PEM01	11/22/93	1810	4.46	14.46
04	AR166001	AR166001	11/22/93	1837	4.46	14.45
05	AR122101	AR122101	11/22/93	1904	4.46	14.46
06	AR123201	AR123201	11/22/93	1931	4.46	14.45
07	AR124201	AR124201	11/22/93	1959	4.46	14.46
08	AR124801	AR124801	11/22/93	2026	4.46	14.45
09	AR125401	AR125401	11/22/93	2053	4.46	14.46
10	TOXAPH01	TOXAPH01	11/22/93	2120	4.46	14.45
11	INDAL01	INDAL01	11/22/93	2147	4.46	14.45
12	INDBL01	INDBL01	11/22/93	2215	4.46	14.44
13	INDAM01	INDAM01	11/22/93	2242	4.46	14.46
14	INDBM01	INDBM01	11/22/93	2309	4.46	14.44
15	INDAH01	INDAH01	11/22/93	2336	4.46	14.46
16	INDBH01	INDBH01	11/23/93	0003	4.46	14.44
0 → 17	PIBLK02	PIBLK02	11/23/93	0030	4.46	14.44
18	PEM02	PEM02	11/23/93	0057	4.46	14.44
19	ZZZZZ	TECH_CHLOR	11/23/93	0124	4.46	14.46
20	ZZZZZ	PIBLK40	11/23/93	0622		
21	ZZZZZ	MB111693-1	11/23/93	0649	4.46	14.46
22	ZZZZZ	111193	11/23/93	0716	4.46	14.44
23	ZZZZZ	24319	11/23/93	0743	4.46	14.46
24	ZZZZZ	24319MS	11/23/93	0810	4.46	14.44
25	ZZZZZ	24319MSD	11/23/93	0837	4.46	14.46
12 → 26	PIBLK03	PIBLK03	11/23/93	0904	4.46	14.44
27	INDAM02	INDAM02	11/23/93	0931	4.46	14.46
28	INDBM02	INDBM02	11/23/93	0958	4.46	14.44
24 → 29	PIBLK04	PIBLK04	11/24/93	0931	4.46	14.45
30	PEM03	PEM03	11/24/93	0958	4.46	14.44
36 → 31	PIBLK05	PIBLK05	11/24/93	1524	4.46	14.46
32	INDAM03	INDAM03	11/24/93	1551	4.46	14.44

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-1701 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

Instrument ID: 3400-A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.46 DCB: 14.46

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	INDBM03	INDBM03	11/24/93	1618	4.46	14.46
02	PIBLK06	PIBLK06	11/29/93	0858	4.46	14.45
03	PEM04	PEM04	11/29/93	0945	4.46	14.44
04	PIBLK07	PIBLK07	11/29/93	2058	4.45	14.44
05	INDAM04	INDAM04	11/29/93	2126	4.46	14.45
06	INDBM04	INDBM04	11/29/93	2153	4.45	14.44
07	PBLKW1	MB110593-1	11/29/93	2220	4.46	14.45
08	EXQ12	23955	11/29/93	2247	4.45	14.44
09	EXQ12MS	23955MS	11/29/93	2314	4.46	14.45
10	EXQ12MSD	23955MSD	11/29/93	2341	4.45	14.44
11	PBLKL1	MB111193-1	11/30/93	0008	*	14.45
12	EXQ02	23944	11/30/93	0035	4.46	14.45
13	EXQ02MS	23944MS	11/30/93	0102	4.46	14.45
14	EXQ02MSD	23944MSD	11/30/93	0129	4.45	14.44
15	EXQ06	23948	11/30/93	0156	4.45	14.44
16	EXQ03	23945	11/30/93	0223	4.45	14.44
17	EXQ05	23947	11/30/93	0250	4.46	14.44
18	EXQ04	23946	11/30/93	0317	4.45	14.44
19	EXQ09	23951	11/30/93	0344	4.46	14.44
20	EXQ10	23952	11/30/93	0411	4.45	14.44
21	EXQ08	23950	11/30/93	0438	4.46	14.44
22	EXQ11	23953	11/30/93	0505	4.45	14.44
23	EXQ07	23949	11/30/93	0532	4.45	14.44
24	PIBLK08	PIBLK08	11/30/93	0814	4.46	14.45
25	PEM05	PEM05	11/30/93	0920	4.47	14.45

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-17 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

Instrument ID: 3400-B

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.02 DCB: 15.97

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PIBLK01	PIBLK01	11/22/93	1716	5.03	15.98
02	RESC01	RESC01	11/22/93	1743	5.01	15.96
03	PEM01	PEM01	11/22/93	1810	5.02	15.97
04	AR166001	AR166001	11/22/93	1837	5.02	15.96
05	AR122101	AR122101	11/22/93	1904	5.02	15.98
06	AR123201	AR123201	11/22/93	1931	5.02	15.97
07	AR124201	AR124201	11/22/93	1959	5.02	15.98
08	AR124801	AR124801	11/22/93	2026	5.02	15.97
09	AR125401	AR125401	11/22/93	2053	5.02	15.98
10	TOXAPH01	TOXAPH01	11/22/93	2120	5.02	15.97
11	INDAL01	INDAL01	11/22/93	2147	5.01	15.96
12	INDBL01	INDBL01	11/22/93	2215	5.02	15.96
13	INDAM01	INDAM01	11/22/93	2242	5.02	15.98
14	INDBM01	INDBM01	11/22/93	2309	5.01	15.96
15	INDAH01	INDAH01	11/22/93	2336	5.02	15.97
16	INDBH01	INDBH01	11/23/93	0003	5.01	15.96
17	PIBLK02	PIBLK02	11/23/93	0030	5.01	15.96
18	PEM02	PEM02	11/23/93	0057	5.01	15.96
19	ZZZZZ	TECH_CHLOR	11/23/93	0124	5.02	15.97
20	ZZZZZ	PIBLK40	11/23/93	0622		
21	ZZZZZ	MB111693-1	11/23/93	0649	5.02	15.97
22	ZZZZZ	111193	11/23/93	0716	5.01	15.96
23	ZZZZZ	24319	11/23/93	0743	5.02	15.97
24	ZZZZZ	24319MS	11/23/93	0810	5.01	15.96
25	ZZZZZ	24319MSD	11/23/93	0837	5.02	15.97
26	PIBLK03	PIBLK03	11/23/93	0904	5.01	15.96
27	INDAM02	INDAM02	11/23/93	0931	5.02	15.97
28	INDBM02	INDBM02	11/23/93	0958	5.01	15.96
29	PIBLK04	PIBLK04	11/24/93	0931	5.02	15.96
30	PEM03	PEM03	11/24/93	0958	5.01	15.96
31	PIBLK05	PIBLK05	11/24/93	1524	5.02	15.97
32	INDAM03	INDAM03	11/24/93	1551	5.01	15.96

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GC Column: DB-17 ID: 0.32(mm) Init. Calib. Date(s): 11/22/93 11/23/93

Instrument ID: 3400-B

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.02 DCB: 15.97

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	INDBM03	INDBM03	11/24/93	1618	5.02	15.97
02	PIBLK06	PIBLK06	11/29/93	0858	5.02	15.96
03	PEM04	PEM04	11/29/93	0945	5.01	15.96
04	PIBLK07	PIBLK07	11/29/93	2059	5.01	15.96
05	INDAM04	INDAM04	11/29/93	2126	5.02	15.96
06	INDBM04	INDBM04	11/29/93	2153	5.01	15.96
07	PBLKW1	MB110593-1	11/29/93	2220	5.02	15.96
08	EXQ12	23955	11/29/93	2247	5.01	15.96
09	EXQ12MS	23955MS	11/29/93	2314	5.02	15.96
10	EXQ12MSD	23955MSD	11/29/93	2341	5.01	15.96
11	PBLKL1	MB111193-1	11/30/93	0008	4.97	15.96
12	EXQ02	23944	11/30/93	0035	5.02	15.96
13	EXQ02MS	23944MS	11/30/93	0102	5.02	15.96
14	EXQ02MSD	23944MSD	11/30/93	0129	5.01	15.95
15	EXQ06	23948	11/30/93	0156	5.01	15.96
16	EXQ03	23945	11/30/93	0223	5.01	15.95
17	EXQ05	23947	11/30/93	0250	5.02	15.96
18	EXQ04	23946	11/30/93	0317	5.01	15.96
19	EXQ09	23951	11/30/93	0344	5.02	15.96
20	EXQ10	23952	11/30/93	0411	5.01	15.95
21	EXQ08	23950	11/30/93	0438	5.02	15.96
22	EXQ11	23953	11/30/93	0506	5.00	15.90
23	EXQ07	23949	11/30/93	0533	5.00	15.97
24	PIBLK08	PIBLK08	11/30/93	0815	5.02	15.96
25	PEM05	PEM05	11/30/93	0920	5.02	15.96

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

9A

PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Florisil Cartridge Lot Number: 952075 Date of Analysis: 04/06/93

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
alpha-BHC	0.010	0.00932	93	80-120
gamma-BHC (Lindane)	0.010	0.00950	95	80-120
Heptachlor	0.010	0.00893	89	80-120
Endosulfan I	0.010	0.00944	94	80-120
Dieldrin	0.020	0.0187	94	80-120
Endrin	0.020	0.0192	96	80-120
4,4'-DDD	0.020	0.0215	108	80-120
4,4'-DDT	0.020	0.0189	94	80-120
Methoxychlor	0.100	0.0954	95	80-120
Tetrachloro-m-xylene	0.010	0.00933	93	80-120
Decachlorobiphenyl	0.020	0.0191	96	80-120

Column to be used to flag recovery with an asterisk.
* Values outside of QC limits

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLKW1	MB110593-1	11/29/93	11/29/93
02	PBLKL1	MB111193-1	11/30/93	11/30/93
03	EXQ02	23944	11/30/93	11/30/93
04	EXQ03	23945	11/30/93	11/30/93
05	EXQ04	23946	11/30/93	11/30/93
06	EXQ05	23947	11/30/93	11/30/93
07	EXQ06	23948	11/30/93	11/30/93
08	EXQ07	23949	11/30/93	11/30/93
09	EXQ08	23950	11/30/93	11/30/93
10	EXQ09	23951	11/30/93	11/30/93
11	EXQ10	23952	11/30/93	11/30/93
12	EXQ11	23953	11/30/93	11/30/93
13	EXQ12	23955	11/29/93	11/29/93
14	EXQ02MS	23944MS	11/30/93	11/30/93
15	EXQ02MSD	23944MSD	11/30/93	11/30/93
16	EXQ12MS	23955MS	11/29/93	11/29/93
17	EXQ12MSD	23955MSD	11/29/93	11/29/93

9B
PESTICIDE GPC CALIBRATION

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

GPC Column: 111693S Calibration Date: 11/29/93

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
gamma-BHC (Lindane)	0.050	0.0408	82	80-110
Heptachlor	0.050	0.0447	89	80-110
Aldrin	0.050	0.0497	99	80-110
Dieldrin	0.100	0.100	100	80-110
Endrin	0.100	0.0940	94	80-110
4,4'-DDT	0.100	0.0891	89	80-110

Column to be used to flag recovery with an asterisk.
* Values outside of QC limits

THIS GPC CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLKL1	MB111193-1	11/30/93	11/30/93
02	EXQ02	23944	11/30/93	11/30/93
03	EXQ02MS	23944MS	11/30/93	11/30/93
04	EXQ02MSD	23944MSD	11/30/93	11/30/93
05	EXQ03	23945	11/30/93	11/30/93
06	EXQ04	23946	11/30/93	11/30/93
07	EXQ05	23947	11/30/93	11/30/93
08	EXQ06	23948	11/30/93	11/30/93
09	EXQ07	23949	11/30/93	11/30/93
10	EXQ08	23950	11/30/93	11/30/93
11	EXQ09	23951	11/30/93	11/30/93
12	EXQ10	23952	11/30/93	11/30/93
13	EXQ11	23953	11/30/93	11/30/93

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

EXQ03

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23945 Dates(s) Analyzed: 11/30/93 11/30/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
alpha-BHC	1	6.02	5.98	6.08	4.04	
	2	6.42	6.39	6.49	4.62	14.4
gamma-BHC (Lindane)	1	6.71	6.69	6.79	2.98	
	2	7.20	7.15	7.25	8.41	182.2
Aldrin	1	7.58	7.53	7.63	11.2	
	2	8.41	8.34	8.44	8.31	34.8
4,4'-DDE	1	9.67	9.59	9.73	11.1	
	2	10.60	10.55	10.69	5.57	99.3
4,4'-DDD	1	10.94	10.89	11.03	4.59	
	2	11.62	11.56	11.70	5.43	18.3

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

EXQ04

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23946 Dates(s) Analyzed: 11/30/93 11/30/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Dieldrin	1	9.85	9.79	9.93	2.84	
	2	10.68	10.61	10.75	4.11	44.7
4,4'-DDE	1	9.65	9.59	9.73	9.12	
	2	10.61	10.55	10.69	8.81	3.5
4,4'-DDT	1	11.24	11.18	11.32	39.9	
	2	12.14	12.09	12.23	43.7	9.5

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

EXQ05

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23947 Dates(s) Analyzed: 11/30/93 11/30/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	9.66	9.59	9.73	12.2	
	2	10.62	10.55	10.69	12.4	1.6
4,4'-DDT	1	11.24	11.18	11.32	10.7	
	2	12.16	12.09	12.23	13.1	22.4
Endrin aldehyde	1	11.64	11.58	11.72	2.69	
	2	12.30	12.21	12.35	3.70	37.6

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

EXQ06

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23948 Dates(s) Analyzed: 11/30/93 11/30/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	9.65	9.59	9.73	12.4	
	2	10.61	10.55	10.69	12.1	2.5
4,4'-DDT	1	11.24	11.18	11.32	11.8	
	2	12.14	12.09	12.23	14.4	22.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

EXQ07

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23949 Dates(s) Analyzed: 11/30/93 11/30/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	9.65	9.59	9.73	10.6	
	2	10.60	10.55	10.69	11.4	7.5
4,4'-DDD	1	10.94	10.89	11.03	5.15	
	2	11.62	11.56	11.70	14.0	171.8
4,4'-DDT	1	11.24	11.18	11.32	12.9	
	2	12.14	12.09	12.23	16.8	30.2

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

EXQ08

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23950 Dates(s) Analyzed: 11/30/93 11/30/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	9.66	9.59	9.73	4.66	
	2	10.62	10.55	10.69	5.47	17.4
4,4'-DDD	1	10.95	10.89	11.03	5.26	
	2	11.62	11.56	11.70	6.27	19.2
4,4'-DDT	1	11.24	11.18	11.32	10.4	
	2	12.16	12.09	12.23	11.0	5.8
alpha-Chlordane	1	9.48	9.41	9.55	1.86	
	2	10.08	10.01	10.15	2.50	34.4

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

EXQ09

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23951 Dates(s) Analyzed: 11/30/93 11/30/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDD	1	10.95	10.89	11.03	3.69	
	2	11.62	11.56	11.70	4.80	30.1
4,4'-DDT	1	11.24	11.18	11.32	2.58	
	2	12.15	12.09	12.23	2.65	2.7
Endrin aldehyde	1	11.64	11.58	11.72	2.32	
	2	12.29	12.21	12.35	1.60	45.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

EXQ10

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23952 Dates(s) Analyzed: 11/30/93 11/30/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	9.65	9.59	9.73	1.50	
	2	10.62	10.55	10.69	2.15	43.3
4,4'-DDD	1	10.94	10.89	11.03	2.87	
	2	11.62	11.56	11.70	3.14	9.4
4,4'-DDT	1	11.24	11.18	11.32	4.47	
	2	12.12	12.09	12.23	9.21	106.0
alpha-Chlordane	1	9.48	9.41	9.55	0.789	
	2	10.08	10.01	10.15	1.06	34.4

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

EXQ11

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23953 Dates(s) Analyzed: 11/30/93 11/30/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.70	6.69	6.79	2.43	
	2	7.20	7.15	7.25	11.8	385.6
4,4'-DDD	1	10.94	10.89	11.03	4.66	
	2	11.62	11.56	11.70	10.0	114.6
4,4'-DDT	1	11.24	11.18	11.32	7.58	
	2	12.14	12.09	12.23	7.32	3.6
Endrin ketone	1	12.82	12.73	12.87	2.52	
	2	13.83	13.77	13.91	3.22	27.8

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

EXQ02MS

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23944MS Dates(s) Analyzed: 11/30/93 11/30/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.74	6.69	6.79	9.23	
	2	7.20	7.15	7.25	10.2	10.5
Heptachlor	1	7.12	7.08	7.18	8.96	
	2	7.80	7.75	7.85	10.1	12.7
Aldrin	1	7.58	7.53	7.63	10.8	
	2	8.40	8.34	8.44	10.9	0.9
Dieldrin	1	9.86	9.79	9.93	48.0	
	2	10.68	10.61	10.75	21.5	123.3
Endrin	1	10.20	10.13	10.27	22.7	
	2	11.35	11.27	11.41	181	697.4
4,4'-DDT	1	11.26	11.18	11.32	77.9	
	2	12.13	12.09	12.23	200	156.7

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

EXQ02MSD

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23944MSD Dates(s) Analyzed: 11/30/93 11/30/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.72	6.69	6.79	15.5	
	2	7.19	7.15	7.25	19.1	23.2
Heptachlor	1	7.12	7.08	7.18	15.6	
	2	7.78	7.75	7.85	15.3	2.0
Aldrin	1	7.58	7.53	7.63	17.4	
	2	8.39	8.34	8.44	18.4	5.7
Dieldrin	1	9.85	9.79	9.93	37.0	
	2	10.67	10.61	10.75	30.4	21.7
Endrin	1	10.19	10.13	10.27	31.3	
	2	11.35	11.27	11.41	90.2	188.2
4,4'-DDT	1	11.24	11.18	11.32	57.3	
	2	12.12	12.09	12.23	91.9	60.4

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

EXQ12MS

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23955MS Dates(s) Analyzed: 11/29/93 11/29/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.74	6.69	6.79	0.535	
	2	7.20	7.15	7.25	0.585	9.3
Heptachlor	1	7.13	7.08	7.18	0.519	
	2	7.80	7.75	7.85	0.525	1.2
Aldrin	1	7.58	7.53	7.63	0.567	
	2	8.40	8.34	8.44	0.592	4.4
Dieldrin	1	9.86	9.79	9.93	1.16	
	2	10.68	10.61	10.75	1.23	6.0
Endrin	1	10.20	10.13	10.27	1.06	
	2	11.34	11.27	11.41	1.12	5.7
4,4'-DDT	1	11.24	11.18	11.32	1.13	
	2	12.16	12.09	12.23	1.18	4.4

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

EXQ12MSD

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23955MSD Dates(s) Analyzed: 11/29/93 11/29/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	6.72	6.69	6.79	0.512	
	2	7.19	7.15	7.25	0.559	9.2
Heptachlor	1	7.12	7.08	7.18	0.494	
	2	7.78	7.75	7.85	0.501	1.4
Aldrin	1	7.58	7.53	7.63	0.543	
	2	8.38	8.34	8.44	0.565	4.1
Dieldrin	1	9.85	9.79	9.93	1.14	
	2	10.67	10.61	10.75	1.20	5.3
Endrin	1	10.19	10.13	10.27	1.04	
	2	11.33	11.27	11.41	1.09	4.8
4,4'-DDT	1	11.24	11.18	11.32	1.13	
	2	12.14	12.09	12.23	1.17	3.5

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

EXQ02

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23944 Dates(s) Analyzed: 11/30/93 11/30/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.10	10.03	10.17	276		
Aroclor-1260	2	11.04	10.97	11.11	232		
	3	12.14	12.07	12.21	240		
COLUMN 1	4	12.70	12.63	12.77	243		
	5	13.72	13.65	13.79	240	250	
	1	10.88	10.81	10.95	226		
	2	11.20	11.13	11.27	253		
	3	12.82	12.75	12.89	267		
COLUMN 2	4	13.07	12.99	13.13	282		
	5	13.87	13.79	13.93	290	260	4.0

At least 3 peaks are required for identification of multicomponent analytes

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

EXQ03

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23945 Dates(s) Analyzed: 11/30/93 11/30/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.10	10.03	10.17	691		
Aroclor-1260	2	11.04	10.97	11.11	644		
	3	12.14	12.07	12.21	338		
COLUMN 1	4	12.70	12.63	12.77	354		
	5	13.72	13.65	13.79	324	470	
	1	10.86	10.81	10.95	734		
	2	11.19	11.13	11.27	656		
	3	12.82	12.75	12.89	443		
COLUMN 2	4	13.06	12.99	13.13	443		
	5	13.86	13.79	13.93	386	530	12.8

At least 3 peaks are required for identification of multicomponent analytes

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

EXQ02MS

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23944MS Dates(s) Analyzed: 11/30/93 11/30/93

Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.10	10.03	10.17	1790		
Aroclor-1260	2	11.04	10.97	11.11	1490		
	3	12.14	12.07	12.21	1530		
COLUMN 1	4	12.70	12.63	12.77	1440		
	5	13.72	13.65	13.79	1370	1500	
	1	10.88	10.81	10.95	1530		
	2	11.20	11.13	11.27	1810		
	3	12.82	12.75	12.89	1820		
COLUMN 2	4	13.06	12.99	13.13	1400		
	5	13.86	13.79	13.93	1920	1700	13.3

At least 3 peaks are required for identification of multicomponent analytes

FORM X PEST-2 3/90

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

EXQ02MSD

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Lab Sample ID : 23944MSD Dates(s) Analyzed: 11/30/93 11/30/93

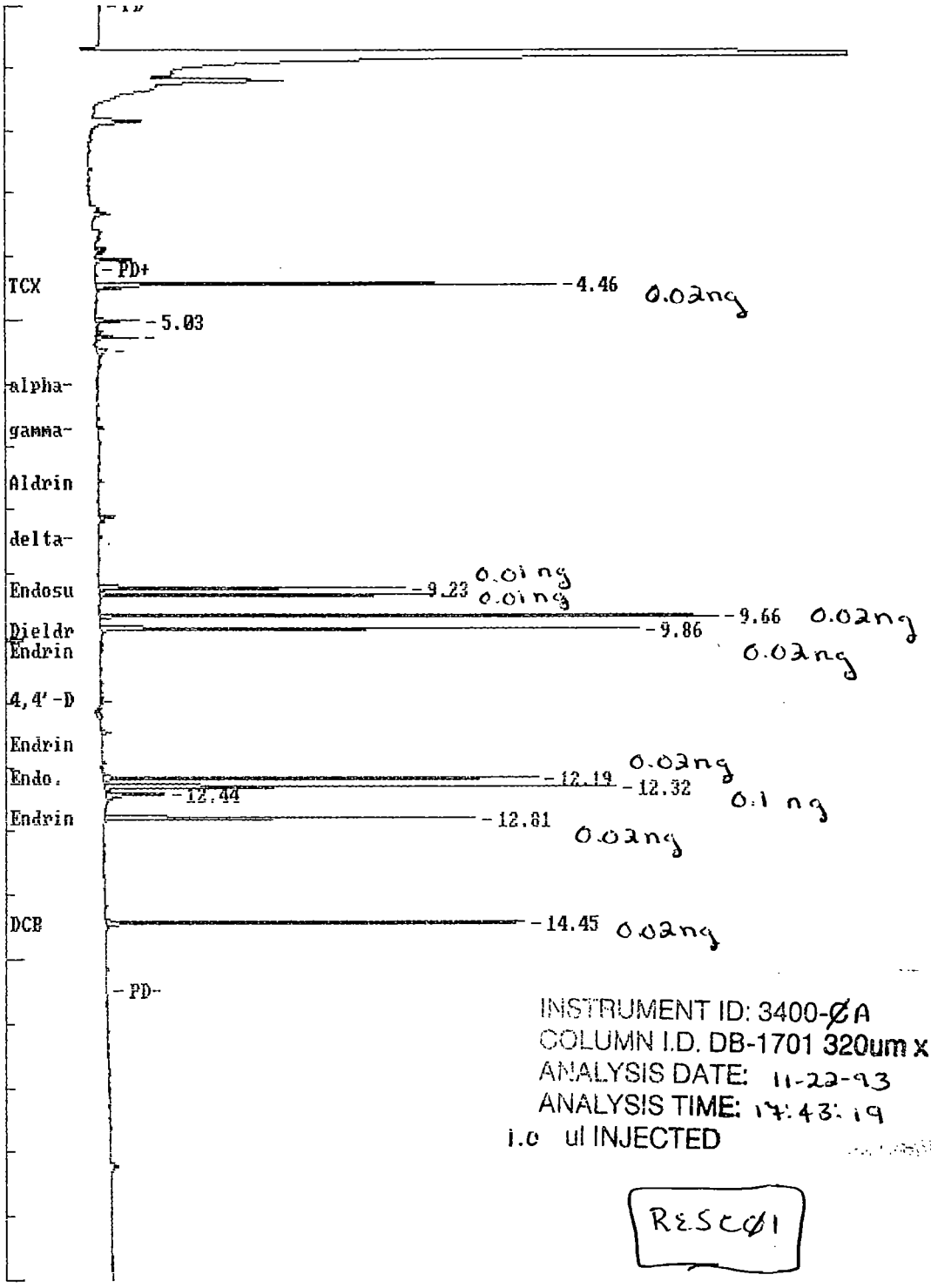
Instrument ID (1): 3400-A Instrument ID (2): 3400-B

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	10.10	10.03	10.17	598		
Aroclor-1260	2	11.04	10.97	11.11	514		
	3	12.14	12.07	12.21	490		
COLUMN 1	4	12.70	12.63	12.77	482		
	5	13.72	13.65	13.79	475	510	
	1	10.86	10.81	10.95	493		
	2	11.19	11.13	11.27	573		
	3	12.82	12.75	12.89	550		
COLUMN 2	4	13.06	12.99	13.13	634		
	5	13.86	13.79	13.93	579	570	11.8

At least 3 peaks are required for identification of multicomponent analytes

Areas, times, and heights stored in: 0:076A2.ATB
Data File = 0:076A2.PTS Printed on 11-23-1993 at 09:33:22
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 60 millivolts

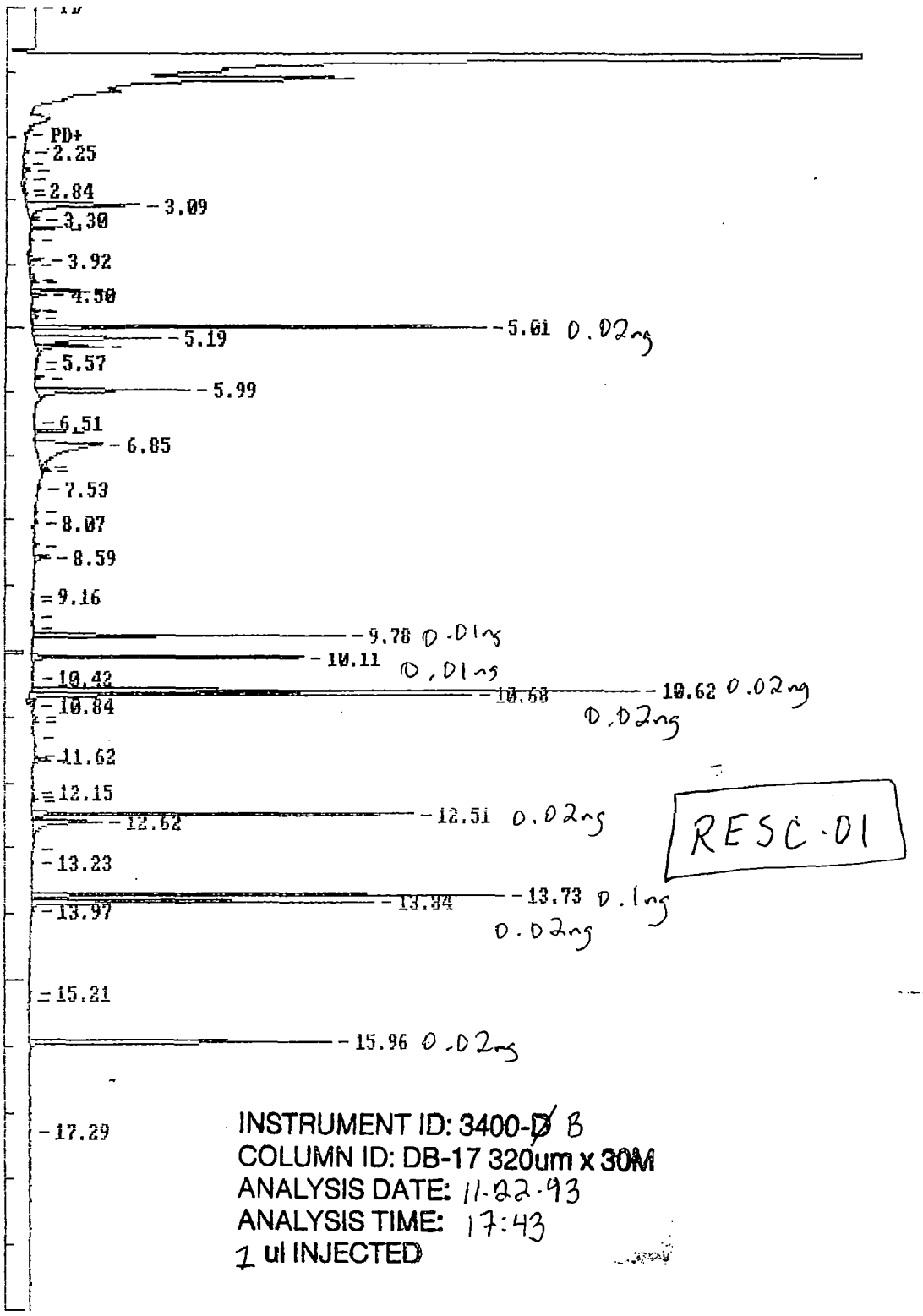


INSTRUMENT ID: 3400-ØA
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 17:43:19
1.0 ul INJECTED

RESCØ1

11-23-93

Data File = 0:076B2.PTS Printed on 11-24-1993 at 10:11:19
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 120 millivolts



RESC-01

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 17:43
1 ul INJECTED

11-24-93

BMG

1632

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:33:15 Version 5.1 **********

* Sample Name: RESC01,I; Data File: 0:076A2 *

* Date: 11-22-1993 17:43:19 Method: 0:076AB 11-23-1993 09:33:05 # 836 *

* Interface: 1 Cycle#: 2 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.455	TCX	1.8284	2.9467%	62365	35623	1.8	2	2	0	2.9318E-05
4	5.025		0.6085	0.9806%	6085	3245	1.9	1			1.0000E-04
6	5.295		0.5130	0.8268%	5130	3173	1.6	1			1.0000E-04
7	5.485		0.4081	0.6577%	4081	844	4.8	1			1.0000E-04
14	9.230	Endosulfan I	2.9795	4.8019%	40585	23744	1.7	2	2	0	7.3413E-05
15	9.340	g. Chlordane	3.4902	5.6250%	44266	26100	1.7	2	2	.1122	7.8847E-05
16	9.660	4,4'-DDE	8.8325	14.2350%	80005	47841	1.7	1	2	.1122	1.1040E-04
17	9.855	Dieldrin	9.0196	14.5366%	69794	41685	1.7	1	2	0	1.2923E-04
30	12.190	Endo. sulfate	6.5443	10.5472%	58639	33669	1.7	2	2	.1944	1.1160E-04
31	12.315	Methoxychlor	18.3363	29.5518%	67860	39612	1.7	2	2	0	2.7021E-04
32	12.435		1.2822	2.0665%	12822	4450	2.9	2			1.0000E-04
33	12.805	Endrin Ketone	2.3100	3.7229%	51617	28805	1.8	1	2	.1513	4.4753E-05
35	14.445	DCB	5.8953	9.5012%	59714	32425	1.8	1	2	0	9.8726E-05

TOTAL AMOUNT = 62.0480

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:50:02 Version 5.1 **********

* Sample Name: RESC01,I; Data File: 0:076B2 *
* Date: 11-22-1993 17:43:19 Method: 0:076BB 11-23-1993 09:47:42 # 874 *
* Interface: 2 Cycle#: 2 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

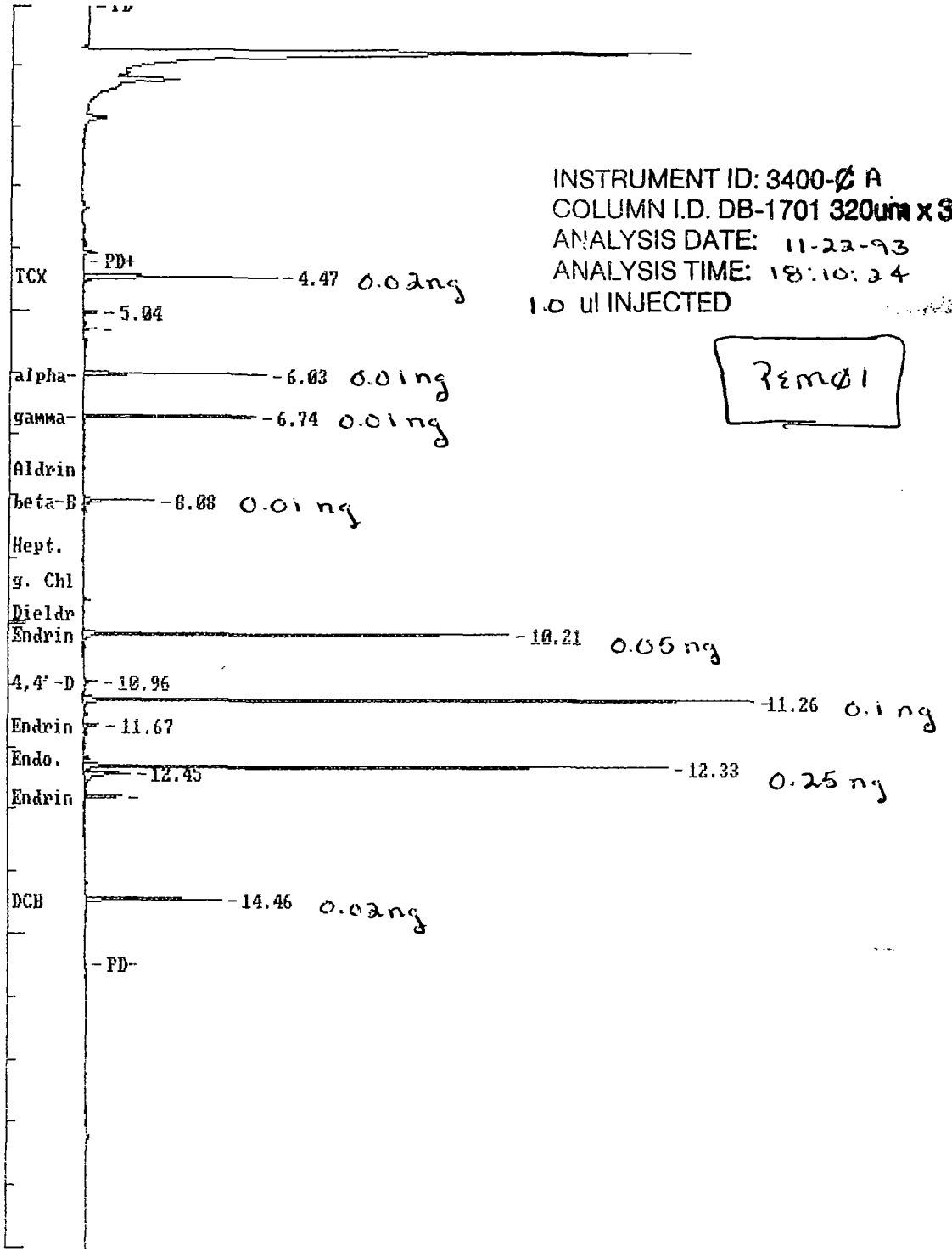
****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	4.855		0.3639	1.2884%	3639	912	4.0	2			1.0000E-04
4	5.010	TCX	0.0154	0.0544%	113423	63761	1.8	1	4	0	1.3549E-07
5	5.190		5.9982	21.2367%	59982	17619	3.4	2			1.0000E-04
6	5.325		2.2672	8.0271%	22672	9305	2.4	2			1.0000E-04
10	5.990		5.8127	20.5799%	58127	21228	2.7	1			1.0000E-04
12	6.640		0.7916	2.8026%	7916	4271	1.9	1			1.0000E-04
13	6.845		8.4450	29.8997%	84450	9340	9.0	3			1.0000E-04
20	8.585		0.7289	2.5805%	7289	2156	3.4	1			1.0000E-04
25	9.780	g. Chlordane	0.0073	0.0258%	78939	43864	1.8	1	4	.1996	9.2400E-08
26	10.110	Endosulfan I	0.0082	0.0292%	74062	38079	1.9	1	4	.1005	1.1134E-07
28	10.615	4,4'-DDE	0.0166	0.0589%	149486	85746	1.7	2	4	.1524	1.1134E-07
29	10.680	Dieldrin	0.0121	0.0430%	121673	62396	2.0	2	4	.1995	9.9731E-08
35	11.675	Endosulfan II	0.0005	0.0017%	4945	2119	2.3	2	4	.1566	9.9585E-08
39	12.505	Endo. sulfate	0.0167	0.0592%	106067	53697	2.0	2	4	.2396	1.5764E-07
40	12.620		3.6937	13.0775%	36937	9543	3.8	2			1.0000E-04
43	13.730	Methoxychlor	0.0149	0.0528%	119709	66611	1.8	2	4	.1266	1.2466E-07
44	13.840	Endrin Ketone	0.0408	0.1443%	93715	48102	1.9	2	4	.1996	4.3502E-07
48	15.960	DCB	0.0108	0.0381%	103386	42307	2.4	1	4	.1368	1.0420E-07

TOTAL AMOUNT = 28.2444

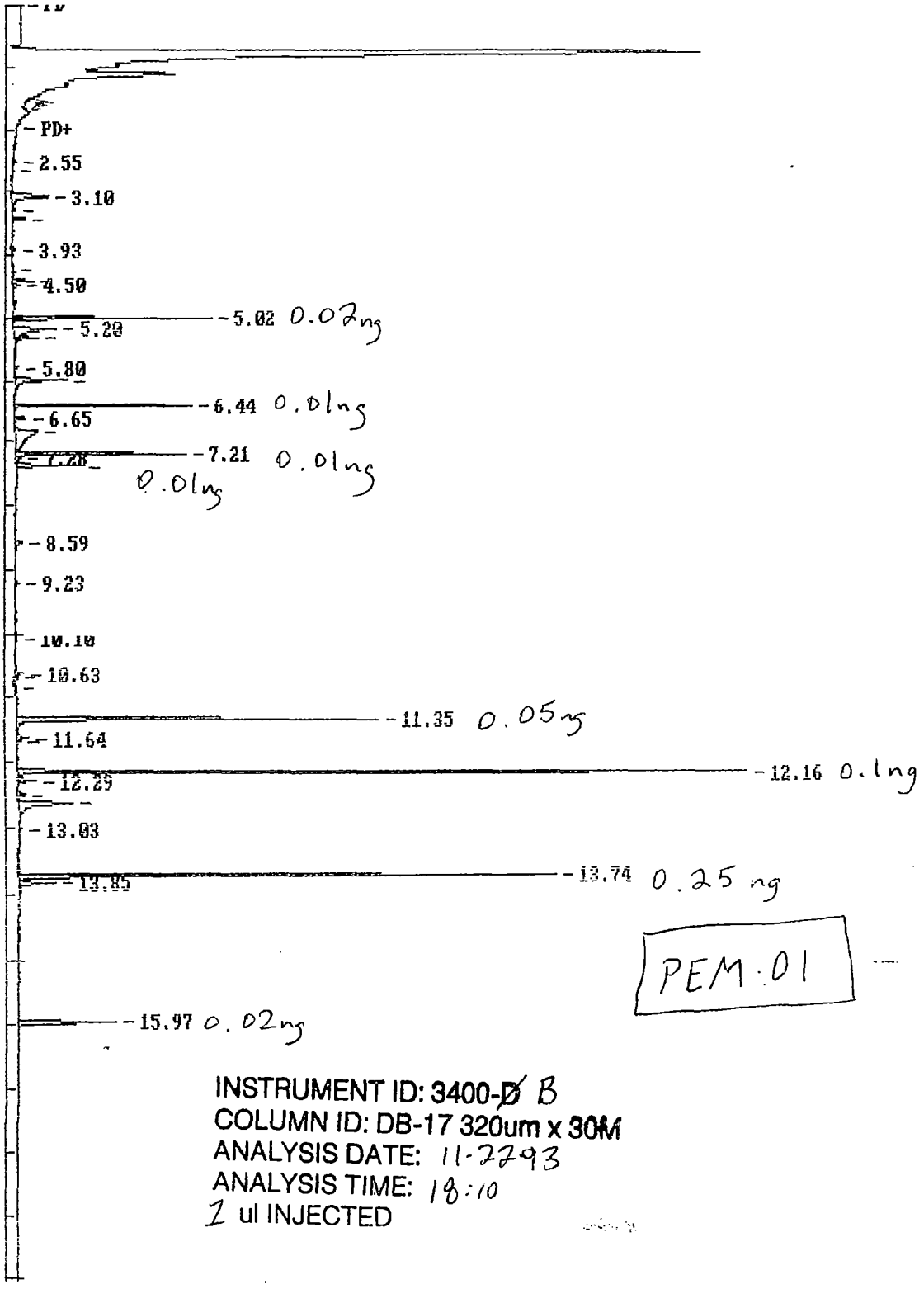
Areas, times, and heights stored in: 0:076A3.ATB
Data File = 0:076A3.PTS Printed on 11-23-1993 at 09:35:10
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 150 millivolts



11-23-93 BJB

1635

Data File = 0:076B3.PTS Printed on 11-24-1993 at 10:13:20
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 300 millivolts



PEM-01

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 18:10
1 ul INJECTED

11-24-93 BMG

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:35:03 Version 5.1 **********

* Sample Name: PEM01,I; Data File: 0:076A3 *

* Date: 11-22-1993 18:10:24 Method: 0:076AB 11-23-1993 09:34:53 # 837 *

* Interface: 1 Cycle#: 3 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.465	TCX	2.0234	1.7972%	69017	38324	1.8	2	2	0	2.9318E-05
5	5.035		0.6426	0.5707%	6426	2971	2.2	2			1.0000E-04
7	5.305		0.4051	0.3598%	4051	2472	1.6	2			1.0000E-04
10	6.030	alpha-BHC	5.7780	5.1319%	55028	36112	1.5	1	2	-.1119	1.0500E-04
12	6.740	gamma-BHC	4.0868	3.6298%	52901	34148	1.5	1	2	-.1119	7.7254E-05
13	8.080	beta-BHC	1.3130	1.1661%	21805	13836	1.6	2	2	.0117	6.0215E-05
24	10.205	Endrin	15.9054	14.1268%	157336	84654	1.9	2	2	0	1.0109E-04
28	10.960	4,4'-DDD	0.3641	0.3233%	3762	2405	1.6	1	2	-.1119	9.6772E-05
30	11.255	4,4'-DDT	19.3835	17.2160%	225475	133000	1.7	1	2	0	8.5967E-05
32	11.665	Endrin Aldehyde	0.8432	0.7489%	9092	3169	2.9	2	2	0	9.2734E-05
37	12.325	Methoxychlor	53.1023	47.1643%	196523	115580	1.7	2	2	0	2.7021E-04
38	12.445		3.2100	2.8511%	32100	8882	3.6	3			1.0000E-04
40	12.815	Endrin Ketone	0.5813	0.5163%	12988	7231	1.8	2	2	0	4.4753E-05
42	14.455	DCB	4.9513	4.3976%	50152	26570	1.9	1	2	-.1465	9.8726E-05

TOTAL AMOUNT = 112.5899

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:51:34 Version 5.1 **********

* Sample Name: PEM01,I; Data File: 0:076B3 *
* Date: 11-22-1993 18:10:25 Method: 0:076BB 11-23-1993 09:47:42 # 874 *
* Interface: 2 Cycle#: 3 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

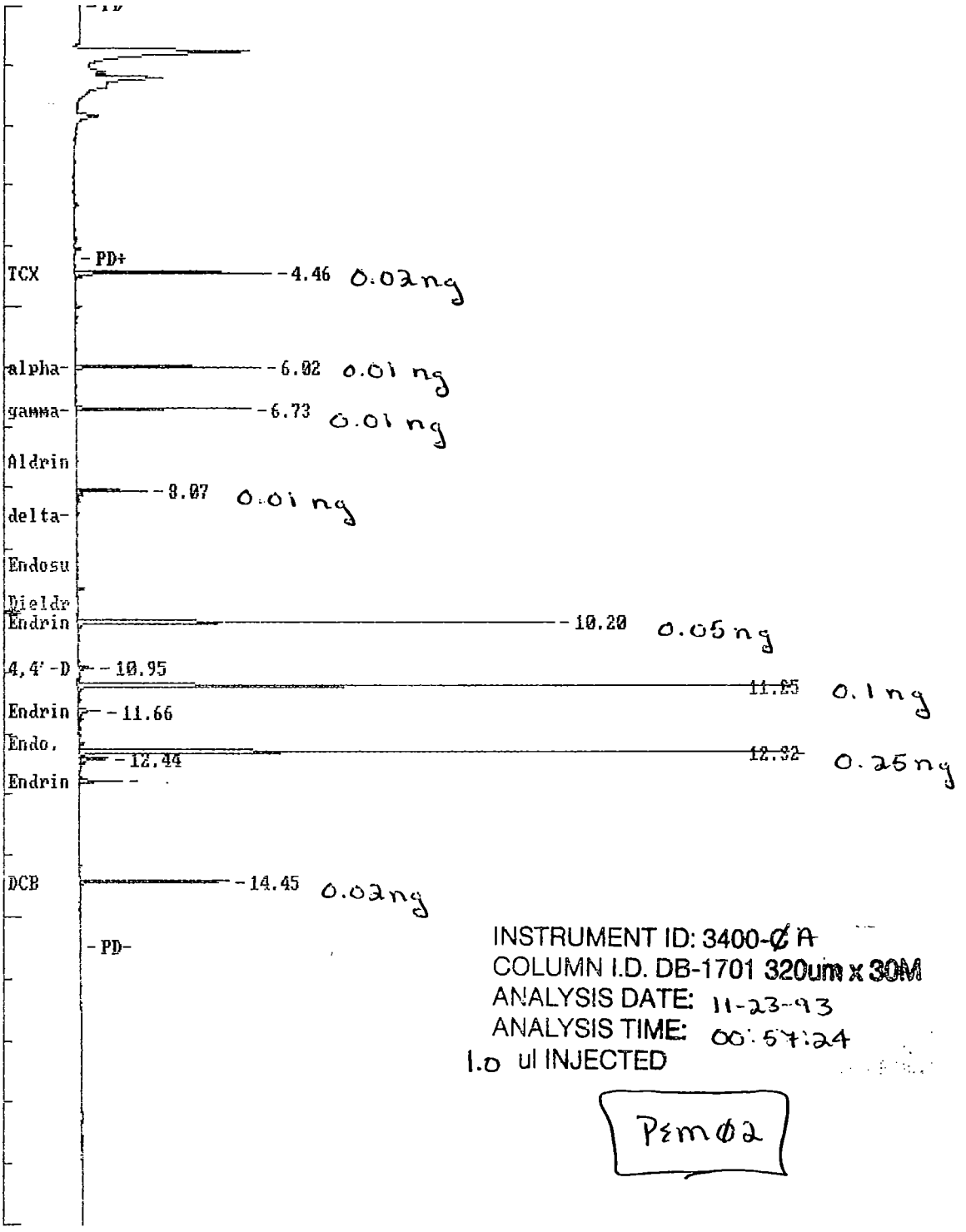
****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.500		0.3760	1.2361%	3760	1811	2.1	1			1.0000E-04
5	5.020	TCX	0.0168	0.0553%	124237	70993	1.7	1	5	0	1.3549E-07
6	5.195		5.2052	17.1126%	52052	15079	3.5	2			1.0000E-04
7	5.335		2.0128	6.6172%	20128	8259	2.4	2			1.0000E-04
12	6.000		4.9624	16.3145%	49624	18349	2.7	1			1.0000E-04
13	6.435	alpha-BHC	0.0075	0.0246%	102145	63278	1.6	1	5	0	7.3132E-08
14	6.645		0.7262	2.3873%	7262	3886	1.9	1			1.0000E-04
15	6.850		7.8775	25.8981%	78775	8015	9.8	2			1.0000E-04
16	7.205	gamma-BHC	0.0094	0.0310%	102624	60965	1.7	2	5	0	9.1880E-08
17	7.275		0.6912	2.2723%	6912	1792	3.9	2			1.0000E-04
18	7.390	beta-BHC	0.0113	0.0371%	40770	23398	1.7	3	5	.1355	2.7691E-07
25	8.590		0.8917	2.9315%	8917	2375	3.8	1			1.0000E-04
32	10.625	4,4'-DDE	0.0007	0.0022%	5923	2976	2.0	2	5	0	1.1134E-07
33	10.690	Dieldrin	0.0007	0.0023%	7106	1399	5.1	2	5	0	9.9731E-08
38	11.345	Endrin	0.0318	0.1044%	261801	130806	2.0	2	5	0	1.2132E-07
39	11.635	4,4'-DDD	0.0013	0.0043%	9749	4533	2.2	2	5	0	1.3477E-07
40	11.680	Endosulfan II	0.0005	0.0016%	4797	1568	3.1	2	5	0	9.9585E-08
44	12.160	4,4'-DDT	0.0744	0.2446%	457170	263721	1.7	2	5	0	1.6277E-07
45	12.290	Endrin Aldehyde	0.0023	0.0075%	13102	6456	2.0	2	5	.0814	1.7436E-07
46	12.505	Endo. sulfate	0.0010	0.0034%	6481	2622	2.5	1	5	0	1.5764E-07
47	12.630		7.4535	24.5043%	74535	19373	3.8	1			1.0000E-04
52	13.740	Methoxychlor	0.0429	0.1411%	344327	194450	1.8	2	5	0	1.2466E-07
53	13.850	Endrin Ketone	0.0114	0.0374%	26160	12881	2.0	2	5	0	4.3502E-07
58	15.970	DCB	0.0089	0.0293%	85601	35012	2.4	1	5	0	1.0420E-07

TOTAL AMOUNT = 30.4173

Areas, times, and heights stored in: O:076A18.ATB
Data File = O:076A18.PTS Printed on 11-23-1993 at 10:06:39
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 150 millivolts



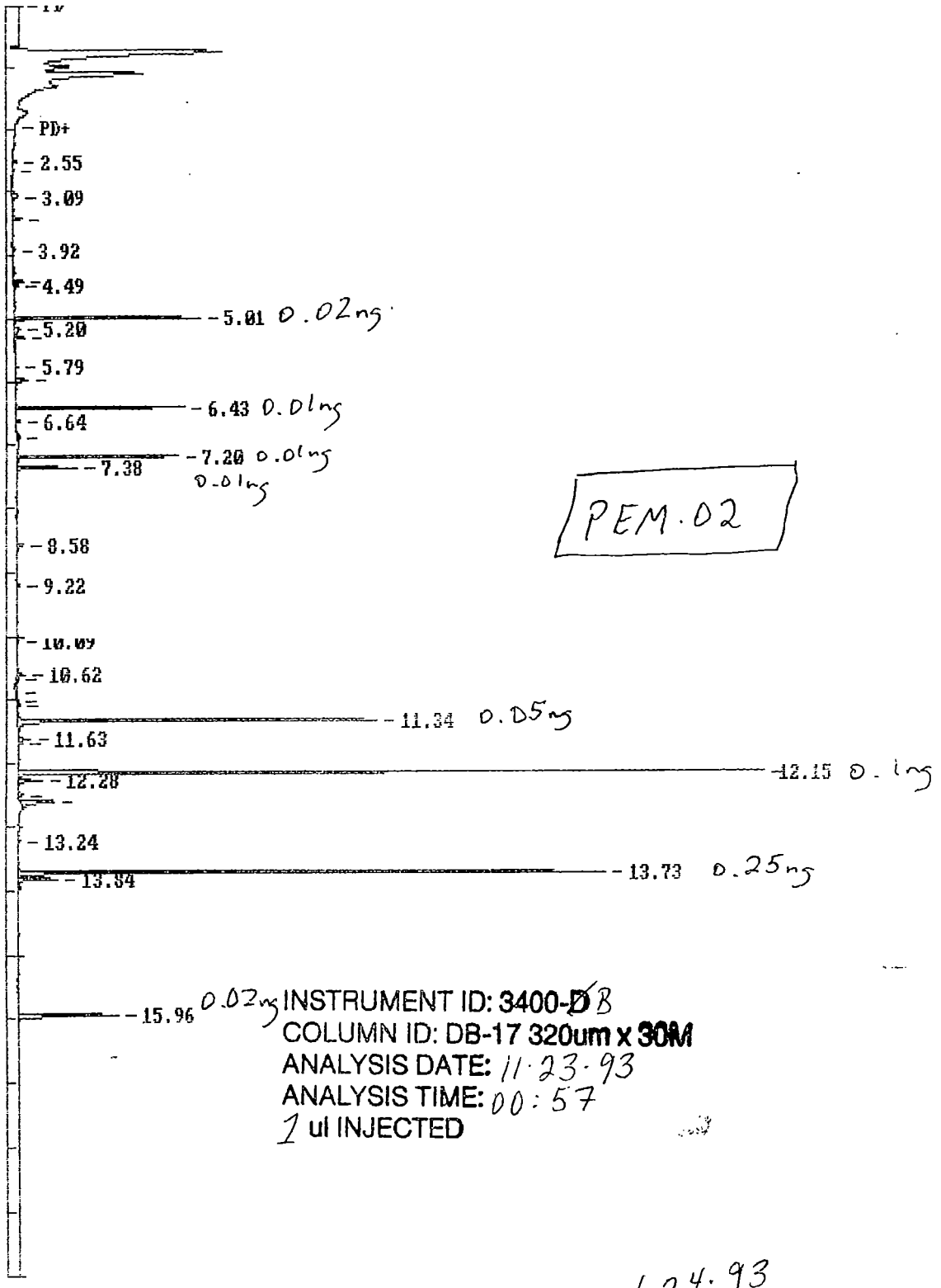
INSTRUMENT ID: 3400-~~Ø~~ A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-23-93
ANALYSIS TIME: 00:57:24
1.0 ul INJECTED

PEMØ2

11-23-93

1639

Data File = O:076B18.PTS Printed on 11-24-1993 at 11:04:29
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 320 millivolts



PEM.02

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11·23·93
ANALYSIS TIME: 00:57
1 ul INJECTED

11.24.93
BMG

```
++++++++      EXTERNAL STANDARD TABLE      ++++++++
******************** 11-23-1993 10:06:33 Version 5.1 ************************
* Sample Name: PEM02,Q;                          Data File: 0:076A18        *
* Date: 11-23-1993 00:57:24 Method: 0:076AB  11-23-1993 10:06:21  #  844   *
* Interface: 1   Cycle#:  18   Operator DB  Channel#: 0    Vial#: N.A.      *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250               *
*************************************************************************
* Instrument Type: 3400-A                  Column Type: DB-1701 .32mm x 30M  *
*              Solvent Description: carrier gas = H2; make-up = N2          *
* Conditions:  110H.5to140@20/minto280@11/minH9 INJ=210 DET=300             *
*              Detector 0: ECD Range1          Detector 1: ECD Range1       *
* Misc. Information: 11/22/93,P,;                                           *
*************************************************************************
Starting Delay:    0.00                      Ending retention time:    20.00
Area reject:      3500                       One sample per    0.300 sec.
Amount injected:        1.00                 Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.455	TCX	2.0416	1.5942%	69638	39532	1.8	2	1	0	2.9318E-05
7	6.020	alpha-BHC	5.8697	4.5834%	55901	37211	1.5	1	1	0	1.0500E-04
8	6.730	gamma-BHC	4.1815	3.2652%	54127	35129	1.5	1	1	0	7.7254E-05
10	8.070	beta-BHC	1.2904	1.0076%	21430	14011	1.5	2	1	.1122	6.0215E-05
22	10.195	Endrin	17.1926	13.4250%	170069	96411	1.8	2	1	0	1.0109E-04
26	10.950	4,4'-DDD	0.3771	0.2944%	3896	2687	1.4	1	1	0	9.6772E-05
28	11.245	4,4'-DDT	21.9304	17.1245%	255102	145400	1.8	2	1	0	8.5957E-05
30	11.655	Endrin Aldehyde	1.1177	0.8728%	12053	4348	2.8	2	1	.1551	9.2734E-05
35	12.315	Methoxychlor	66.5011	51.9277%	246110	143323	1.7	2	1	0	2.7021E-04
36	12.435		1.5558	1.2149%	15558	5725	2.7	2			1.0000E-04
39	12.800	Endrin Ketone	0.6668	0.5207%	14900	8432	1.8	2	1	.1122	4.4753E-05
41	14.445	DCB	5.3398	4.1696%	54087	29757	1.8	1	1	0	9.8726E-05

TOTAL AMOUNT = 128.0647

Areas, times, and heights stored in: 0:076B17.ATB

EXTERNAL STANDARD TABLE

********** 11-23-1993 10:20:13 Version 5.1 **********

* Sample Name: PEM02,0; Data File: 0:076B18 *
* Date: 11-23-1993 00:57:28 Method: 0:076BB 11-23-1993 10:16:12 # 875 *
* Interface: 2 Cycle#: 18 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

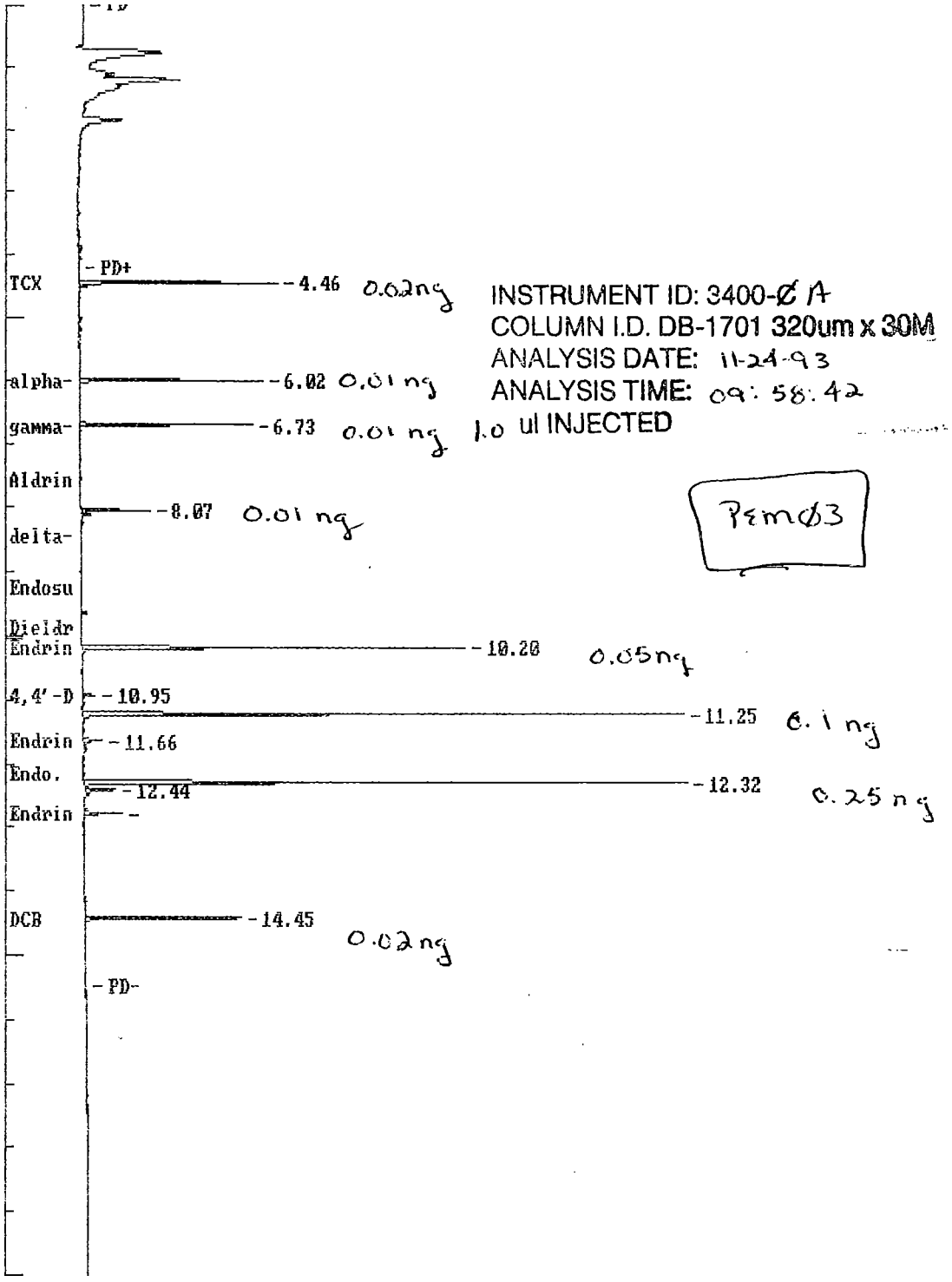
****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	5.010	TCX	0.0170	0.1723%	125811	71560	1.8	1	3	0	1.3549E-07
4	5.195		1.0075	10.1843%	10075	2341	4.3	2			1.0000E-04
5	5.325		0.9682	9.7869%	9682	3925	2.5	3			1.0000E-04
9	5.990		1.2968	13.1080%	12968	4910	2.6	3			1.0000E-04
11	6.425	alpha-BHC	0.0076	0.0771%	104265	54722	1.6	1	3	0	7.3132E-08
13	6.890		0.7136	7.2130%	7136	962	7.4	1			1.0000E-04
14	7.195	gamma-BHC	0.0091	0.0923%	99350	61844	1.6	2	3	.1300	9.1880E-08
16	7.380	beta-BHC	0.0106	0.1072%	38295	23070	1.7	1	3	.1996	2.7691E-07
21	8.580		0.8767	8.8618%	8767	2717	3.2	1			1.0000E-04
29	10.615	4,4'-DDE	0.0008	0.0078%	6953	3305	2.1	2	3	.1524	1.1134E-07
30	10.675	Dieldrin	0.0005	0.0052%	5187	997	5.2	2	3	.1526	9.9731E-08
31	10.880		0.7121	7.1977%	7121	692	10.3	2			1.0000E-04
34	11.335	Endrin	0.0337	0.3409%	278001	138288	2.0	2	3	.1554	1.2133E-07
35	11.625	4,4'-DDD	0.0013	0.0136%	9992	5044	2.0	2	3	.1565	1.3477E-07
36	11.675	Endosulfan II	0.0005	0.0048%	4806	1820	2.6	2	3	.1566	9.9585E-08
40	12.150	4,4'-DDT	0.0805	0.8138%	494623	287018	1.7	2	3	.1172	1.6277E-07
41	12.280	Endrin Aldehyde	0.0035	0.0351%	19896	9357	2.1	2	3	.1996	1.7436E-07
42	12.500	Endo. sulfate	0.0009	0.0086%	5393	2075	2.6	2	3	.1996	1.5764E-07
43	12.620		4.0784	41.2249%	40784	13227	3.1	1			1.0000E-04
48	13.730	Methoxychlor	0.0506	0.5113%	405748	226573	1.8	2	3	.1266	1.2466E-07
49	13.840	Endrin Ketone	0.0133	0.1344%	30565	14983	2.0	2	3	.1996	4.3502E-07
54	15.960	DCB	0.0098	0.0989%	93945	38395	2.4	1	3	.1368	1.0420E-07

TOTAL AMOUNT = 9.8930

Areas, times, and heights stored in: 0:076A40.ATB
Data File = 0:076A40.PTS Printed on 11-24-1993 at 16:14:14
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 150 millivolts

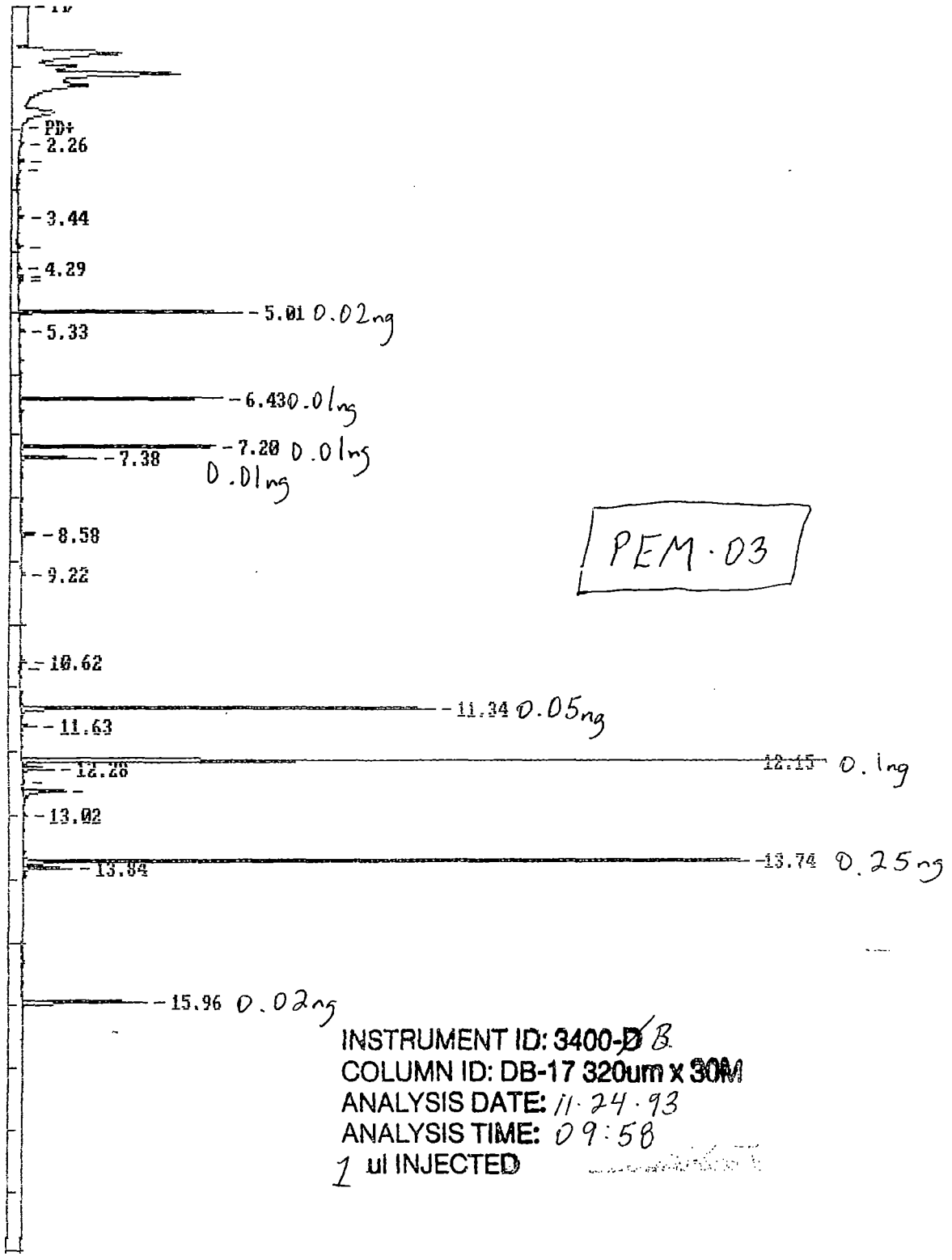


INSTRUMENT ID: 3400-Ø A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-24-93
ANALYSIS TIME: 09:58:42
1.0 ul INJECTED

PEMØ3

11-29-93

Data File = O:076B40.PTS Printed on 11-29-1993 at 09:17:17
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 260 millivolts



PEM-03

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-24-93
ANALYSIS TIME: 09:58
1 ul INJECTED

11-29-93 BMG

EXTERNAL STANDARD TABLE

********** 11-24-1993 16:14:08 Version 5.1 **********

* Sample Name: PEM03,Q,; Data File: O:076A40 *

* Date: 11-24-1993 09:58:42 Method: O:076AB 11-24-1993 16:13:42 # 857 *

* Interface: 1 Cycle#: 82 Operator DB Channel#: O Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector O: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.455	TCX	2.0444	1.9400%	69732	38539	1.8	2	1	0	2.9318E-05
5	6.020	alpha-BHC	5.7711	5.4765%	54962	35606	1.5	1	1	0	1.0500E-04
6	6.730	gamma-BHC	3.9902	3.7866%	51651	33454	1.5	1	1	0	7.7254E-05
8	8.070	beta-BHC	1.2192	1.1569%	20247	13178	1.5	2	1	.1122	6.0215E-05
13	10.195	Endrin	13.2178	12.5431%	130751	74553	1.8	1	1	0	1.0109E-04
16	10.950	4,4'-DDD	0.4270	0.4052%	4412	2474	1.8	1	1	0	9.6772E-05
18	11.245	4,4'-DDT	17.2919	16.4092%	201146	117281	1.7	1	1	0	8.5967E-05
20	11.655	Endrin Aldehyde	0.9134	0.8668%	9850	3708	2.7	3	1	.1551	9.2734E-05
25	12.315	Methoxychlor	53.4246	50.6974%	197716	117678	1.7	2	1	0	2.7021E-04
26	12.435		1.1840	1.1235%	11840	5482	2.2	2			1.0000E-04
28	12.805	Endrin Ketone	0.5604	0.5318%	12522	7289	1.7	2	1	.1513	4.4753E-05
30	14.445	DCB	5.3353	5.0629%	54041	30088	1.8	1	1	0	9.8726E-05

TOTAL AMOUNT = 105.3794

EXTERNAL STANDARD TABLE

********** 11-24-1993 17:17:05 Version 5.1 **********

* Sample Name: PEM03,Q,; Data File: 0:076B40 *
* Date: 11-24-1993 09:58:43 Method: 0:076BB 11-24-1993 17:15:17 # 884 *
* Interface: 2 Cycle#: 82 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

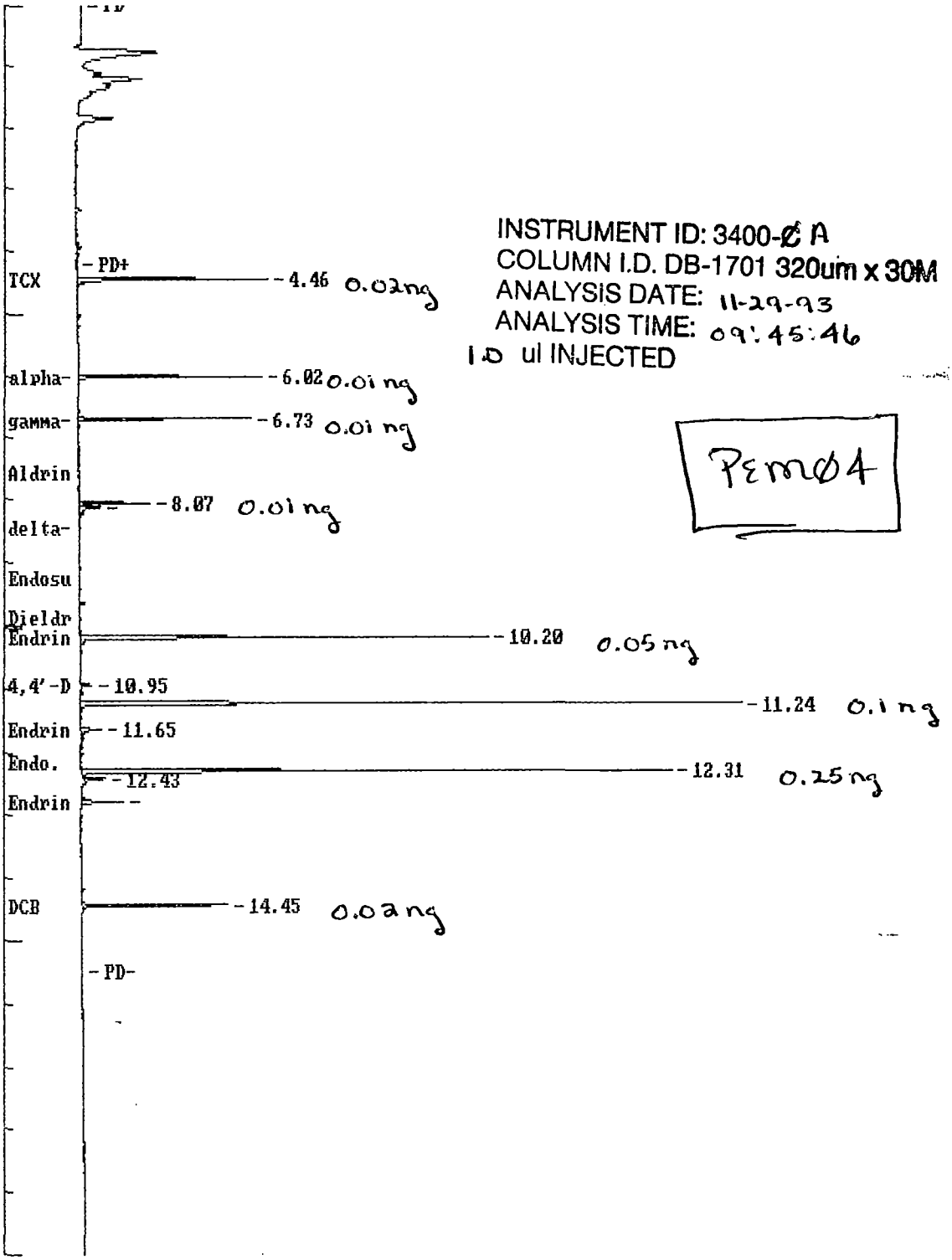
****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	5.010	TCX	0.0172	0.3026%	126724	70684	1.8	2	2	0	1.3549E-07
9	6.430	alpha-BHC	0.0077	0.1353%	105002	64098	1.6	1	2	0	7.3132E-08
11	7.195	gamma-BHC	0.0091	0.1610%	99429	61406	1.6	1	2	.1300	9.1880E-08
12	7.380	beta-BHC	0.0107	0.1885%	38620	23704	1.6	2	2	.1996	2.7691E-07
18	8.580		1.1833	20.8568%	11833	4526	2.6	1			1.0000E-04
25	10.615	4,4'-DDE	0.0006	0.0100%	5081	2382	2.1	2	2	.1524	1.1134E-07
29	11.335	Endrin	0.0316	0.5561%	260073	132089	2.0	1	2	.1554	1.2132E-07
30	11.625	4,4'-DDD	0.0011	0.0200%	8412	4845	1.7	1	2	.1565	1.3477E-07
33	12.150	4,4'-DDT	0.0769	1.3562%	472722	276888	1.7	2	2	.1172	1.6277E-07
34	12.280	Endrin Aldehyde	0.0033	0.0584%	19001	9836	1.9	2	2	.1996	1.7436E-07
36	12.620		4.2572	75.0354%	42572	13744	3.1	3			1.0000E-04
41	13.735	Methoxychlor	0.0515	0.9069%	412752	231659	1.8	2	2	.1631	1.2466E-07
42	13.840	Endrin Ketone	0.0135	0.2379%	31025	15506	2.0	2	2	.1996	4.3502E-07
47	15.960	DCB	0.0099	0.1748%	95175	39493	2.4	1	2	.1368	1.0420E-07

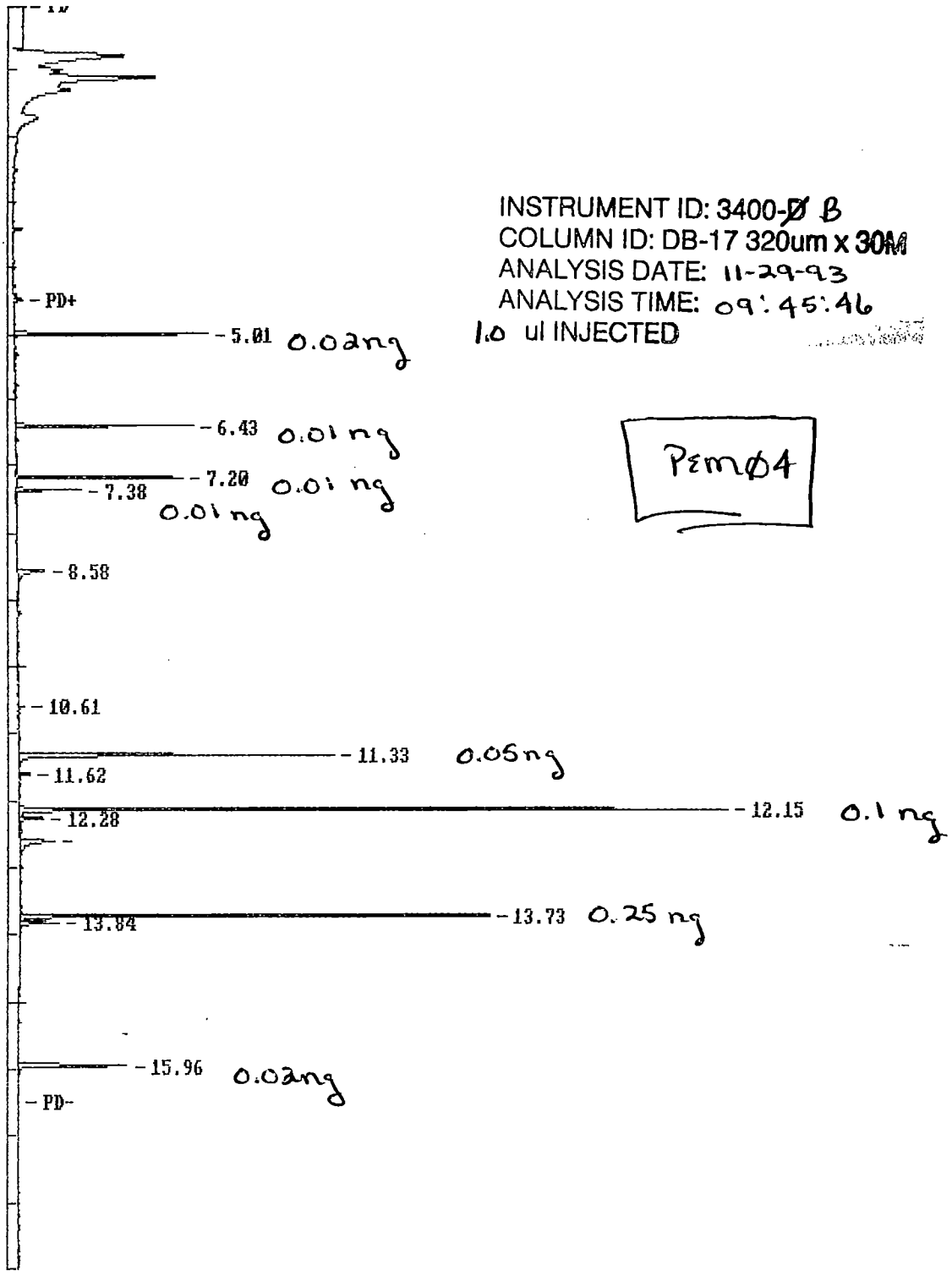
TOTAL AMOUNT = 5.6735

Areas, times, and heights stored in: 0:076A55.ATB
Data File = 0:076A55.PTS Printed on 12-01-1993 at 14:25:05
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 150 millivolts



12-01-93

Areas, times, and heights stored in: O:076B55.ATB
Data File = O:076B55.PTS Printed on 12-01-1993 at 14:26:09
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 300 millivolts



12-01-93 KJB

1648

EXTERNAL STANDARD TABLE

********** 12-01-1993 14:24:58 Version 5.1 **********

* Sample Name: PEM04,Q,; Data File: 0:076A55 *
* Date: 11-29-1993 09:45:46 Method: 0:076AB 12-01-1993 14:23:18 # 866 *
* Interface: 1 Cycle#: 55 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.455	TCX	1.9639	1.8055%	66986	36927	1.8	2	2	0	2.9318E-05
6	6.020	alpha-BHC	5.6425	5.1876%	53738	35571	1.5	1	2	0	1.0500E-04
8	6.730	gamma-BHC	3.9333	3.6161%	50913	33505	1.5	1	2	0	7.7254E-05
10	8.070	beta-BHC	1.2233	1.1247%	20316	13519	1.5	2	2	.1122	6.0215E-05
11	8.130		1.1938	1.0975%	11938	4204	2.8	2			1.0000E-04
16	10.195	Endrin	14.9024	13.7008%	147415	80408	1.8	2	2	0	1.0109E-04
18	10.950	4,4'-DDD	0.3861	0.3550%	3990	2319	1.7	1	2	0	9.6772E-05
20	11.240	4,4'-DDT	18.1699	16.7048%	211358	130022	1.6	1	2	0	8.5967E-05
22	11.650	Endrin Aldehyde	1.0385	0.9548%	11199	4031	2.8	3	2	.1122	9.2734E-05
26	12.310	Methoxychlor	53.5275	49.2115%	198097	115866	1.7	1	2	.0309	2.7021E-04
27	12.430		0.9986	0.9181%	9986	4195	2.4	1			1.0000E-04
29	12.800	Endrin Ketone	0.6253	0.5749%	13973	8021	1.7	2	2	.1122	4.4753E-05
32	14.445	DCB	5.1652	4.7488%	52319	28033	1.9	1	2	0	9.8726E-05

TOTAL AMOUNT = 108.7704

++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-01-1993 14:25:59 Version 5.1 **********

* Sample Name: PEM04,Q,; Data File: 0:076B55 *

* Date: 11-29-1993 09:45:46 Method: 0:076BB 12-01-1993 14:23:36 # 891 *

* Interface: 2 Cycle#: 55 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00

Area reject: 3500 One sample per 0.300 sec.

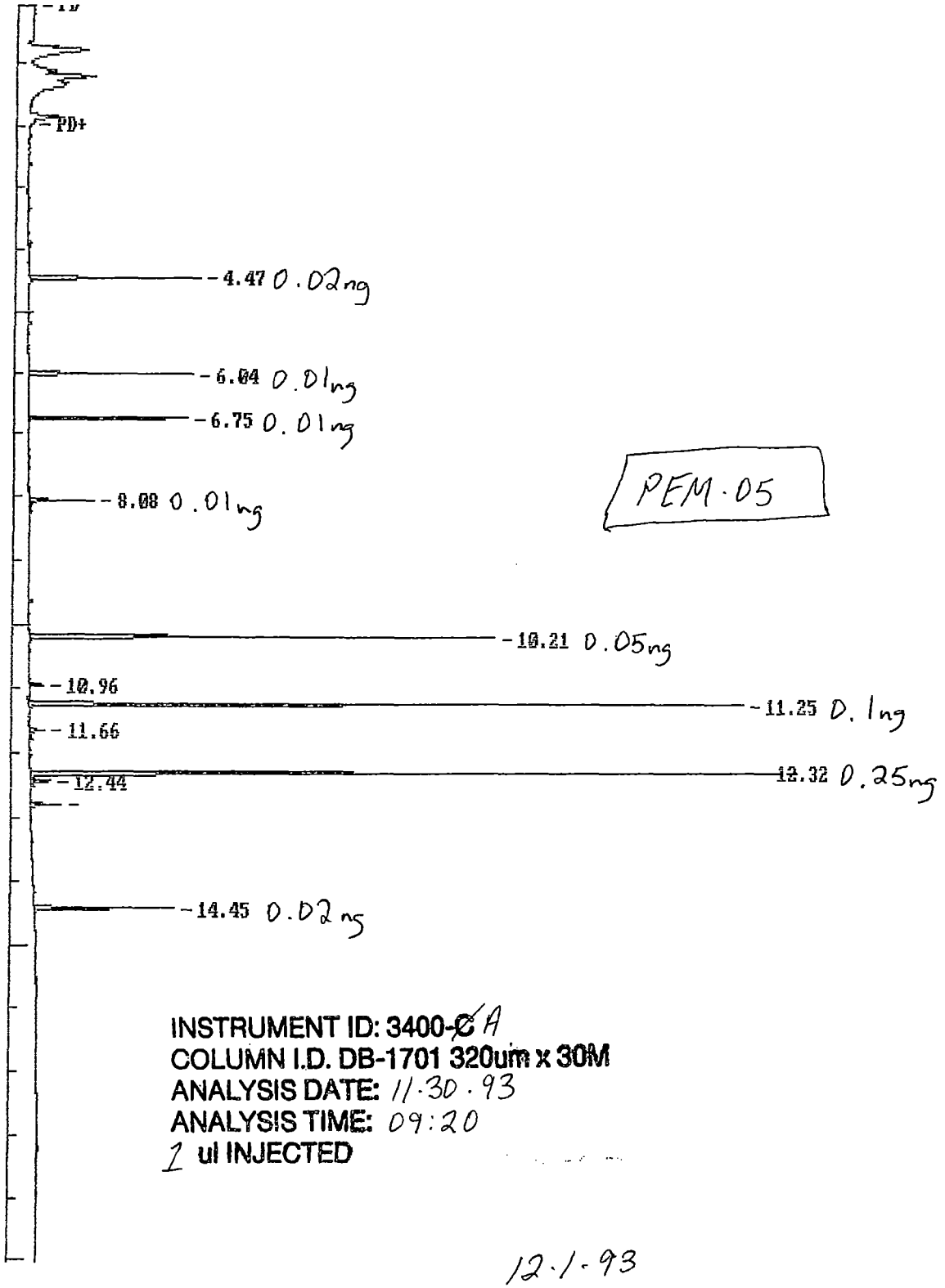
Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	5.010	TCX	0.0169	0.1927%	125087	69236	1.8	1	3	0	1.3549E-07
10	6.425	alpha-BHC	0.0075	0.0849%	102097	63690	1.6	1	3	0	7.3132E-08
12	7.195	gamma-BHC	0.0088	0.1002%	95932	59344	1.6	1	3	.1300	9.1880E-08
13	7.380	beta-BHC	0.0104	0.1179%	37457	23072	1.6	1	3	.1996	2.7691E-07
18	8.580		3.8590	43.8749%	38590	9716	4.0	1			1.0000E-04
25	10.610	4,4'-DDE	0.0005	0.0053%	4203	2220	1.9	2	3	.1052	1.1134E-07
29	11.330	Endrin	0.0280	0.3188%	231096	113650	2.0	1	3	.1112	1.2132E-07
30	11.620	4,4'-DDD	0.0009	0.0101%	6604	3738	1.8	1	3	.1134	1.3477E-07
33	12.150	4,4'-DDT	0.0734	0.8341%	450718	256343	1.8	2	3	.1172	1.6277E-07
34	12.280	Endrin Aldehyde	0.0034	0.0389%	19637	8333	2.4	2	3	.1996	1.7436E-07
36	12.620		4.7253	53.7253%	47253	12271	3.9	2			1.0000E-04
40	13.730	Methoxychlor	0.0390	0.4437%	313074	170273	1.8	2	3	.1266	1.2466E-07
41	13.835	Endrin Ketone	0.0124	0.1414%	28595	13790	2.1	2	3	.1634	4.3502E-07
46	15.960	DCB	0.0098	0.1117%	94257	38805	2.4	1	3	.1368	1.0420E-07

TOTAL AMOUNT = 8.7954

Data File = 0:076A104.PTS Printed on 12-01-1993 at 16:01:07
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 160 millivolts

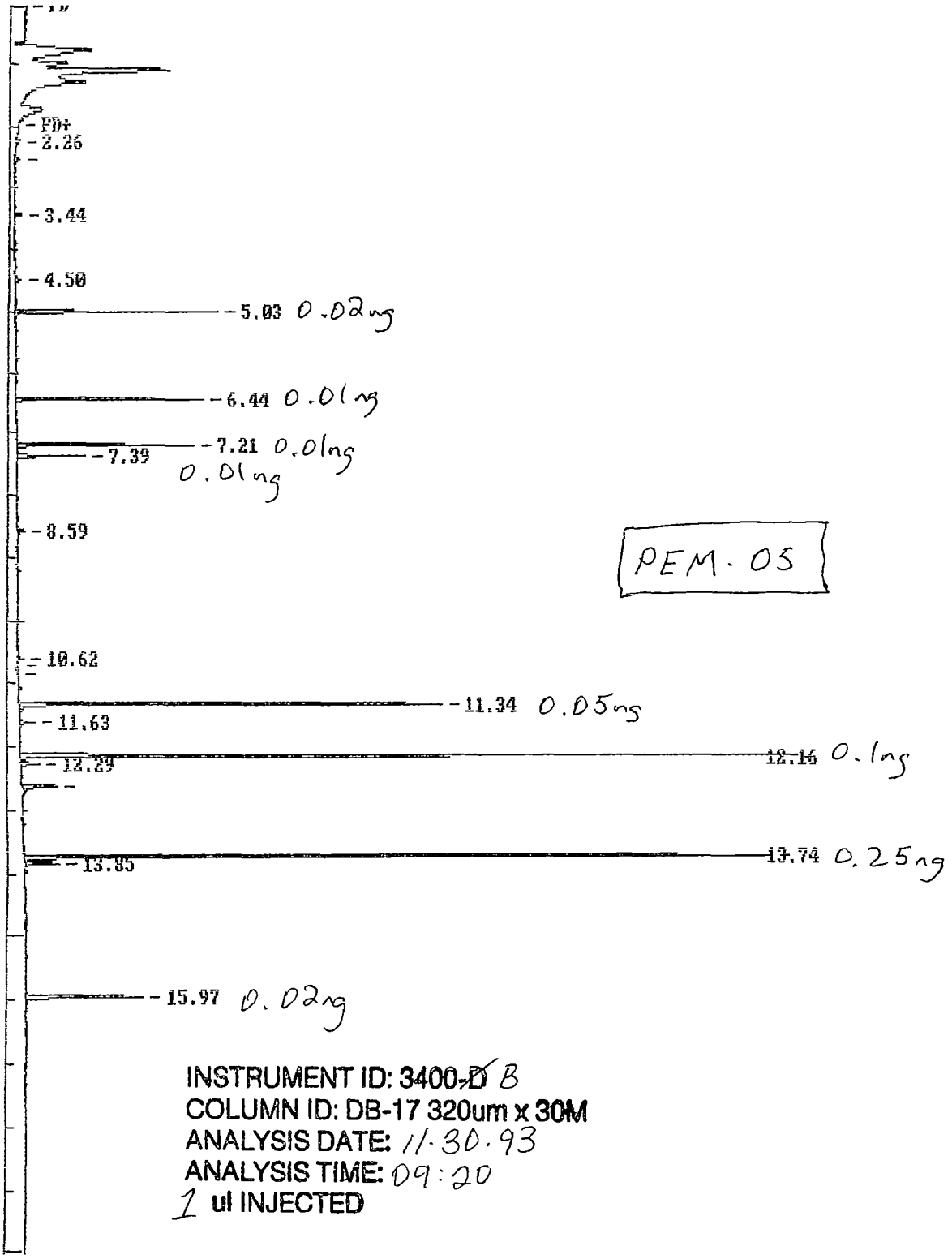


PEM-05

INSTRUMENT ID: 3400-~~C~~ A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-30-93
ANALYSIS TIME: 09:20
1 ul INJECTED

12-1-93
BMG

Data File = O:076B104.PTS Printed on 12-01-1993 at 16:03:18
Start time: 0.00 min. Stop time: 20.02 min. Offset: 0 mv.
Full Range: 260 millivolts



12-1-93
BMG

Areas, times, and heights stored in: 0:076A103.AIB

++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-01-1993 15:31:10 Version 5.1 **********

* Sample Name: PEM05,Q,; Data File: 0:076A104 *

* Date: 11-30-1993 09:20:30 Method: 0:076AB 12-01-1993 15:30:06 # 869 *

* Interface: 1 Cycle#: 105 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.470	TCX	1.7121	1.3991%	58400	32994	1.8	1	1	0	2.9318E-05
5	6.035	alpha-BHC	5.0697	4.1429%	48282	31849	1.5	1	1	-.1409	1.0500E-04
8	6.745	gamma-BHC	3.6205	2.9587%	46865	30817	1.5	1	1	-.1496	7.7254E-05
9	8.080	beta-BHC	1.1324	0.9254%	18806	12521	1.5	2	1	-.1000	6.0215E-05
17	10.205	Endrin	15.5817	12.7332%	154133	90543	1.7	1	1	-.1747	1.0109E-04
20	10.960	4,4'-DDD	0.4439	0.3627%	4587	2726	1.7	1	1	-.2237	9.6772E-05
22	11.250	4,4'-DDT	19.5269	15.9573%	227144	138508	1.6	1	1	-.2237	8.5967E-05
24	11.660	Endrin Aldehyde	0.6715	0.5488%	7241	2846	2.5	2	1	-.1380	9.2734E-05
28	12.320	Methoxychlor	68.3886	55.8866%	253096	145305	1.7	2	1	-.2237	2.7021E-04
29	12.440		0.9189	0.7509%	9189	3877	2.4	2			1.0000E-04
32	12.805	Endrin Ketone	0.4564	0.3730%	10199	5931	1.7	2	1	-.1847	4.4753E-05
36	14.450	DCB	4.8476	3.9614%	49101	27104	1.8	1	1	-.2927	9.8726E-05

TOTAL AMOUNT = 122.3703

Areas, times, and heights stored in: 0:076B103.ATB

++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-01-1993 15:31:47 Version 5.1 **********

* Sample Name: PEM05,Q,; Data File: 0:076B104 *

* Date: 11-30-1993 09:20:40 Method: 0:076BB 12-01-1993 15:30:19 # 894 *

* Interface: 2 Cycle#: 105 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00

Area reject: 3500 One sample per 0.300 sec.

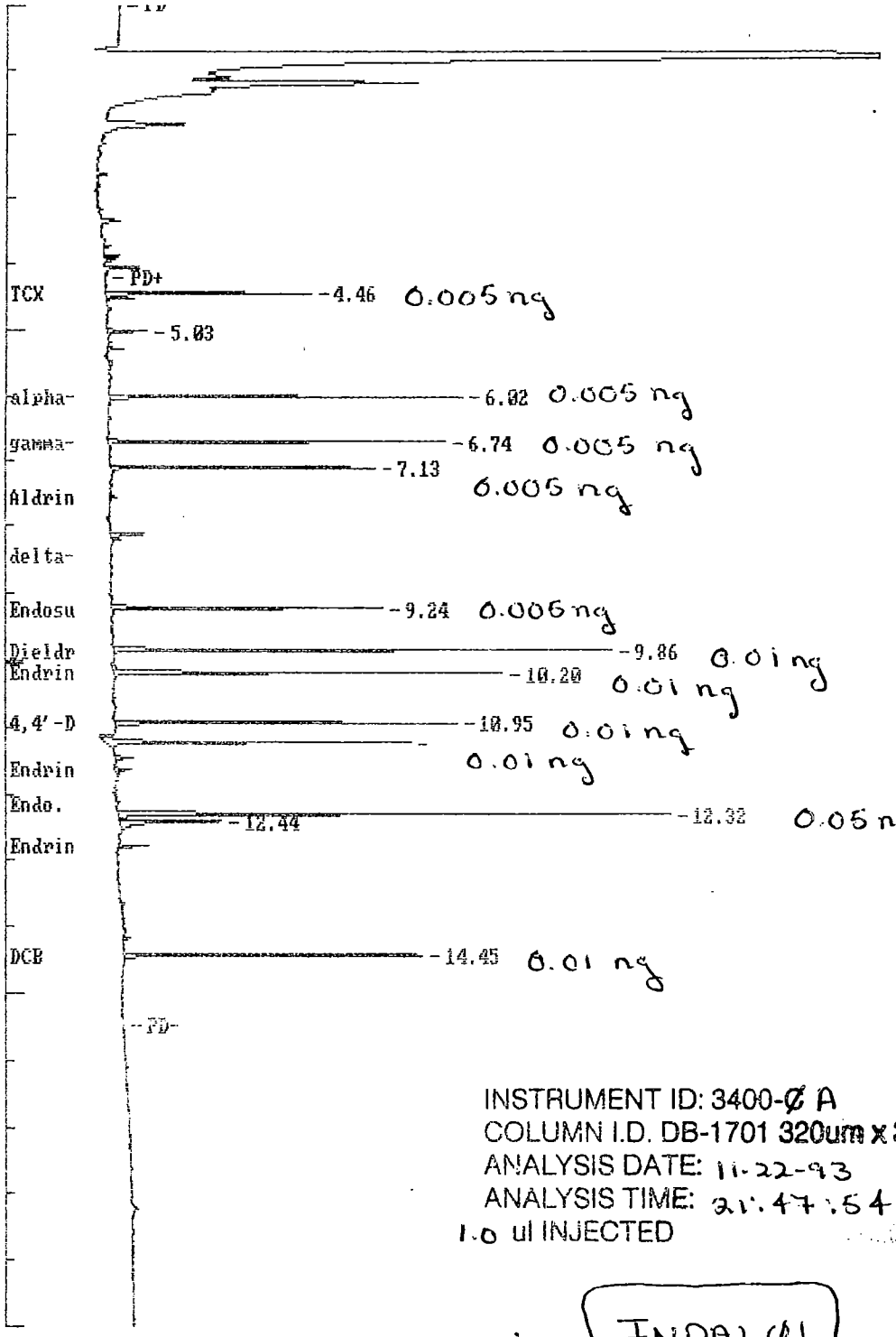
Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.500		0.3551	8.3746%	3551	1675	2.1	1			1.0000E-04
3	5.025	TCX	0.0152	0.3592%	112422	63609	1.8	1	3	0	1.3549E-07
10	6.440	alpha-BHC	0.0069	0.1619%	93894	59126	1.6	1	3	0	7.3132E-08
12	7.205	gamma-BHC	0.0083	0.1957%	90332	55705	1.6	1	3	0	9.1880E-08
13	7.390	beta-BHC	0.0097	0.2284%	34981	21667	1.6	2	3	0	2.7691E-07
18	8.590		0.5352	12.6210%	5352	2110	2.5	1			1.0000E-04
25	10.620	4,4'-DDE	0.0005	0.0121%	4624	2108	2.2	2	3	0	1.1134E-07
26	10.710	Dieldrin	0.0004	0.0101%	4308	872	4.9	2	3	.1811	9.9731E-08
29	11.340	Endrin	0.0317	0.7483%	261551	134509	1.9	1	3	0	1.2132E-07
30	11.630	4,4'-DDD	0.0012	0.0283%	8888	4925	1.8	1	3	0	1.3477E-07
33	12.155	4,4'-DDT	0.0702	1.6558%	431346	247066	1.7	2	3	-.1405	1.6277E-07
34	12.285	Endrin Aldehyde	0.0023	0.0538%	13085	5929	2.2	2	3	0	1.7436E-07
36	12.625		3.1337	73.9034%	31337	11345	2.8	1			1.0000E-04
42	13.735	Methoxychlor	0.0520	1.2267%	417252	237878	1.8	2	3	-.1358	1.2466E-07
43	13.845	Endrin Ketone	0.0087	0.2043%	19911	10931	1.8	2	3	0	4.3502E-07
49	15.965	DCB	0.0092	0.2164%	88052	37082	2.4	1	3	-.1307	1.0420E-07

TOTAL AMOUNT = 4.2403

Areas, times, and heights stored in: 0:076A11.ATB
Data File = 0:076A11.PTS Printed on 11-23-1993 at 09:51:53
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 40 millivolts



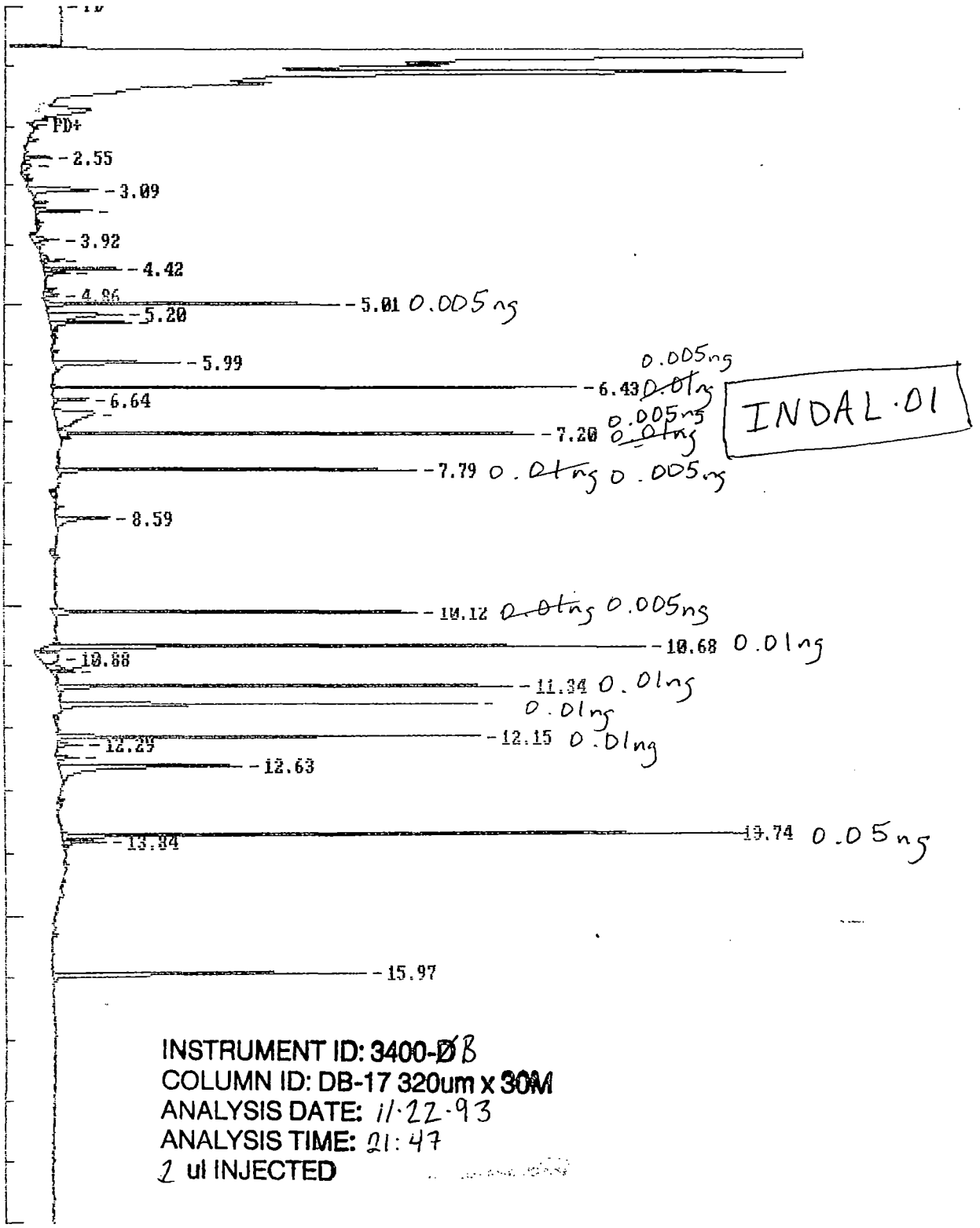
INSTRUMENT ID: 3400-Ø A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 21:47:54
1.0 ul INJECTED

INDALØ1

11-23-93

1655

Data File = O:076B11.PTS Printed on 11-23-1993 at 14:34:59
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 50 millivolts



INSTRUMENT ID: 3400-~~D~~B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11·22·93
ANALYSIS TIME: 21:47
2 ul INJECTED

11·24·93 BMG

1656

EXTERNAL STANDARD TABLE

```
******************** 11-23-1993 09:51:46 Version 5.1 ********************
* Sample Name: INDAL01,I;                          Data File: 0:076A11      *
* Date: 11-22-1993 21:47:54 Method: 0:076AB  11-23-1993 09:51:32  #  840  *
* Interface: 1   Cycle#:  11   Operator DB  Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250              *
*************************************************************************
* Instrument Type: 3400-A                  Column Type: DB-1701 .32mm x 30M  *
*            Solvent Description: carrier gas = H2; make-up = N2           *
* Conditions:  110H.5to140@20/minto280@11/minH9 INJ=210 DET=300            *
*            Detector 0: ECD Range1          Detector 1: ECD Range1        *
* Misc. Information: 11/22/93,P,;                                          *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    20.00
Area reject:      3500                     One sample per   0.300 sec.
Amount injected:       1.00                Dilution factor:        1.00
Sample Weight:         1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.455	TCX	0.5147	1.2830%	17555	10123	1.7	2	1	0	2.9318E-05
4	5.025		0.3717	0.9267%	3717	1890	2.0	1			1.0000E-04
7	6.020	alpha-BHC	2.8622	7.1350%	27259	17609	1.5	1	1	0	1.0500E-04
8	6.735	gamma-BHC	2.0359	5.0751%	26353	16789	1.6	1	1	0	7.7254E-05
9	7.125	Heptachlor	1.7625	4.3936%	21368	13105	1.6	1	1	0	8.2482E-05
14	9.235	Endosulfan I	1.6852	4.2009%	22955	13428	1.7	1	1	0	7.3413E-05
15	9.855	Dieldrin	5.4035	13.4701%	41813	24855	1.7	1	1	0	1.2923E-04
17	10.200	Endrin	3.4730	8.6576%	34355	19400	1.8	2	1	.1122	1.0109E-04
20	10.950	4,4'-DDD	2.7821	6.9353%	28749	17092	1.7	1	1	0	9.6772E-05
21	11.245	4,4'-DDT	2.2938	5.7181%	26682	15074	1.8	1	1	0	8.5967E-05
26	12.320	Methoxychlor	12.8530	32.0403%	47567	27473	1.7	2	1	.1122	2.7021E-04
27	12.435		1.3944	3.4760%	13944	5022	2.8	2			1.0000E-04
32	14.450	DCB	2.6831	6.6884%	27177	14896	1.8	1	1	0	9.8726E-05

TOTAL AMOUNT = 40.1152

++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-23-1993 10:07:20 Version 5.1 **********

* Sample Name: INDAL01,I; Data File: 0:076B11 *

* Date: 11-22-1993 21:47:56 Method: 0:076BB 11-23-1993 09:47:42 # 874 *

* Interface: 2 Cycle#: 11 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00

Area reject: 3500 One sample per 0.300 sec.

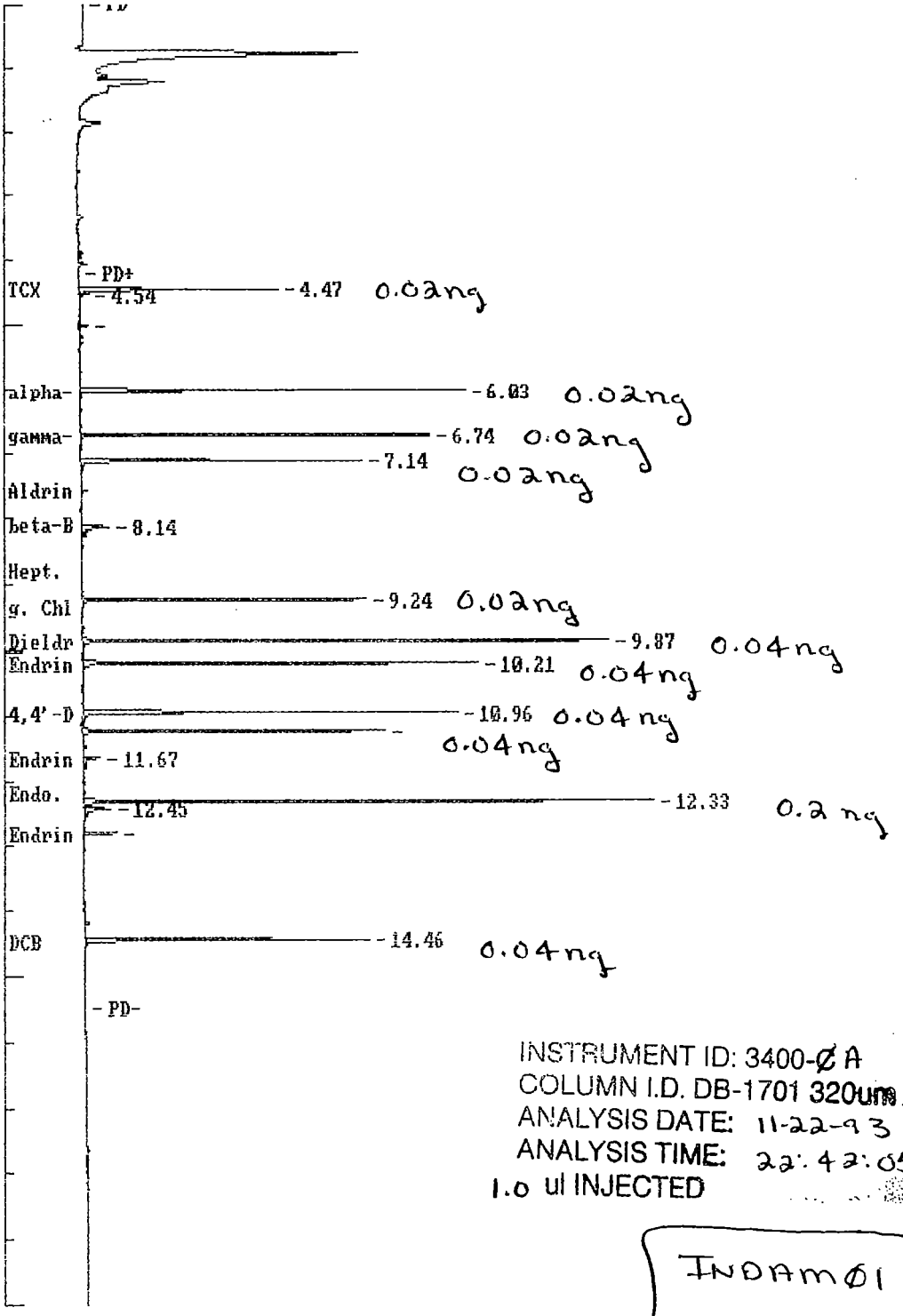
Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.860		0.4157	2.5913%	4157	993	4.2	2			1.0000E-04
3	5.010	TCX	0.0046	0.0285%	33688	18424	1.8	1	3	0	1.3549E-07
4	5.195		1.8511	11.5392%	18511	4725	3.9	2			1.0000E-04
5	5.325		1.2565	7.8323%	12565	5186	2.4	3			1.0000E-04
9	5.990		2.0183	12.5810%	20183	7927	2.5	1			1.0000E-04
10	6.430	alpha-BHC	0.0038	0.0239%	52364	33107	1.6	1	3	0	7.3132E-08
11	6.640		0.4262	2.6570%	4262	2258	1.9	1			1.0000E-04
12	6.875		2.6754	16.6772%	26754	2606	10.3	2			1.0000E-04
13	7.200	gamma-BHC	0.0047	0.0293%	51201	30029	1.7	2	3	.1996	9.1880E-08
16	7.790	Heptachlor	0.0046	0.0290%	41682	22660	1.8	1	3	0	1.1145E-07
19	8.585		1.3341	8.3165%	13341	3460	3.9	1			1.0000E-04
23	10.115	Endosulfan I	0.0049	0.0303%	43604	22943	1.9	1	3	.1501	1.1134E-07
25	10.680	Dieldrin	0.0075	0.0469%	75383	37785	2.0	2	3	.1995	9.9731E-08
26	10.875		1.1026	6.8729%	11026	1134	9.7	2			1.0000E-04
27	11.030		0.4204	2.6203%	4204	966	4.4	2			1.0000E-04
29	11.335	Endrin	0.0069	0.0427%	56508	28838	2.0	1	3	.1554	1.2132E-07
30	11.625	4,4'-DDD	0.0064	0.0399%	47526	26408	1.8	1	3	.1565	1.3477E-07
32	12.150	4,4'-DDT	0.0079	0.0490%	48295	26729	1.8	2	3	.1172	1.6277E-07
33	12.285	Endrin Aldehyde	0.0007	0.0041%	3778	1636	2.3	2	3	.2404	1.7436E-07
35	12.625		4.4726	27.8808%	44726	11523	3.9	1			1.0000E-04
36	13.735	Methoxychlor	0.0099	0.0615%	79120	43115	1.8	2	3	.1631	1.2466E-07
39	13.840	Endrin Ketone	0.0025	0.0156%	5753	2745	2.1	2	3	.1996	4.3502E-07
44	15.965	DCB	0.0049	0.0307%	47217	19604	2.4	1	3	.1682	1.0420E-07

TOTAL AMOUNT = 16.0420

Areas, times, and heights stored in: O:076A13.ATB
Data File = O:076A13.PTS Printed on 11-23-1993 at 09:57:07
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 150 millivolts



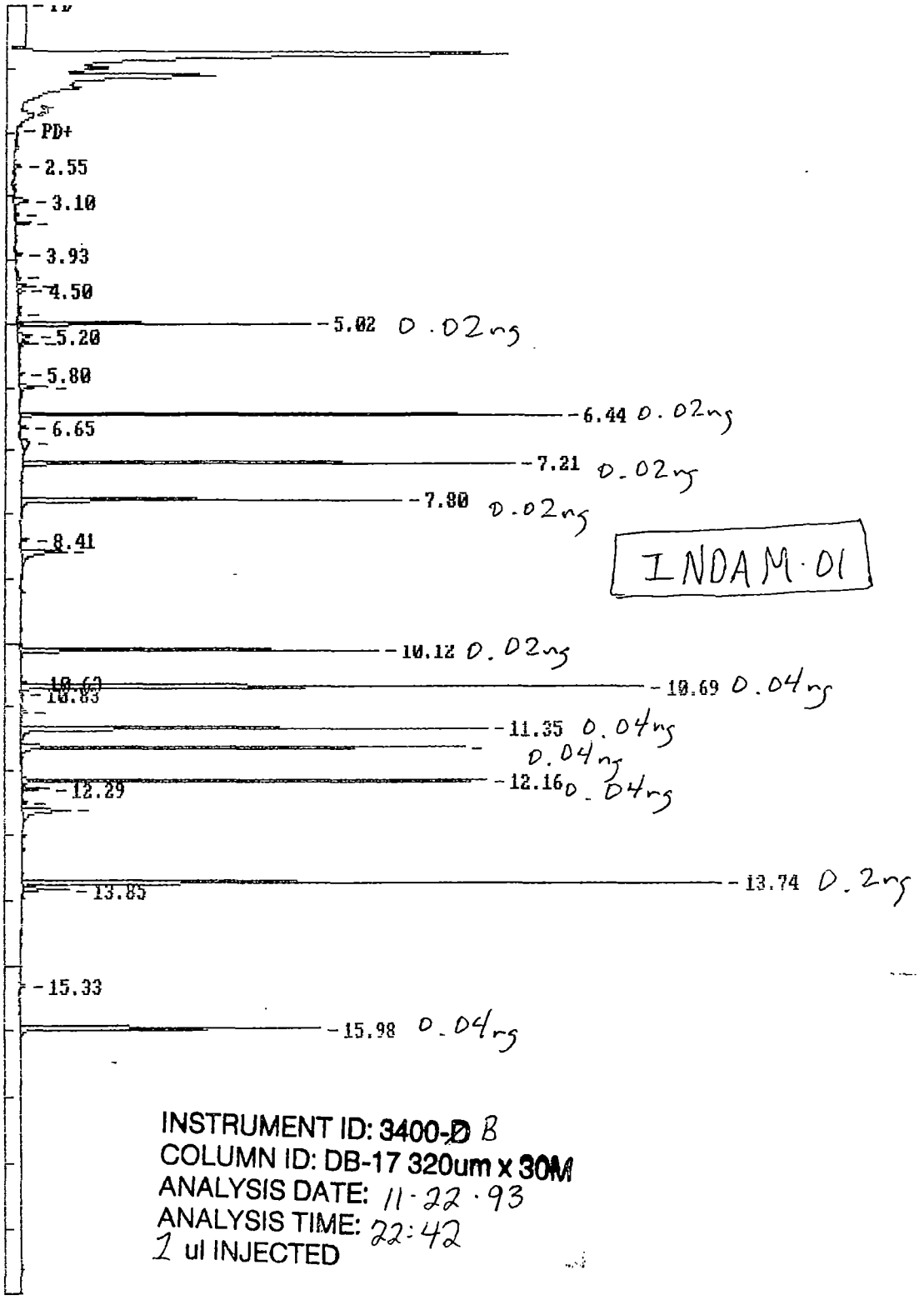
INSTRUMENT ID: 3400-Ø A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 22:42:05
1.0 ul INJECTED

INDAMØ1

11-23-93 DJB

1659

Data File = O:076B13.PTS Printed on 11-24-1993 at 10:18:24
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 200 millivolts



INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 22:42
1 ul INJECTED

11-24-93
BMG

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:56:59 Version 5.1 **********

* Sample Name: INDAM01,I; Data File: 0:076A13 *
* Date: 11-22-1993 22:42:05 Method: 0:076AB 11-23-1993 09:56:48 # 841 *
* Interface: 1 Cycle#: 13 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.465	TCX	1.9779	1.2710%	67466	37228	1.8	2	1	0	2.9318E-05
2	4.540		0.3560	0.2288%	3560	1797	2.0	2			1.0000E-04
4	5.035		0.3600	0.2313%	3600	1653	2.2	2			1.0000E-04
8	6.030	alpha-BHC	11.7226	7.5330%	111642	72842	1.5	2	1	-.1119	1.0500E-04
10	6.740	gamma-BHC	7.9755	5.1250%	103237	65900	1.6	1	1	-.1119	7.7254E-05
11	7.135	Heptachlor	7.1422	4.5896%	86590	53021	1.6	1	1	0	8.2482E-05
14	8.140		1.4867	0.9554%	14867	5242	2.8	3			1.0000E-04
16	9.240	Endosulfan I	6.6869	4.2970%	91086	53623	1.7	1	1	-.1119	7.3413E-05
19	9.865	Dieldrin	21.6298	13.8994%	167372	99455	1.7	1	1	-.0613	1.2923E-04
21	10.205	Endrin	13.5287	8.6936%	133825	74992	1.8	2	1	0	1.0109E-04
23	10.960	4,4'-DDD	11.6160	7.4645%	120034	70969	1.7	3	1	-.1119	9.6772E-05
25	11.255	4,4'-DDT	8.7428	5.6182%	101699	57353	1.8	1	1	0	8.5967E-05
27	11.665	Endrin Aldehyde	0.8359	0.5371%	9013	3239	2.8	3	1	0	9.2734E-05
32	12.325	Methoxychlor	49.9283	32.0840%	184777	107645	1.7	2	1	0	2.7021E-04
33	12.445		1.4290	0.9183%	14290	5047	2.8	3			1.0000E-04
36	12.815	Endrin Ketone	0.4809	0.3090%	10746	6213	1.7	2	1	0	4.4753E-05
39	14.455	DCB	9.7181	6.2449%	98435	53575	1.8	1	1	-.1465	9.8726E-05

TOTAL AMOUNT = 155.6173

EXTERNAL STANDARD TABLE

********** 11-23-1993 10:16:47 Version 5.1 **********

* Sample Name: INDAM01,I; Data File: 0:076B13 *
* Date: 11-22-1993 22:42:08 Method: 0:076BB 11-23-1993 10:16:12 # 875 *
* Interface: 2 Cycle#: 13 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

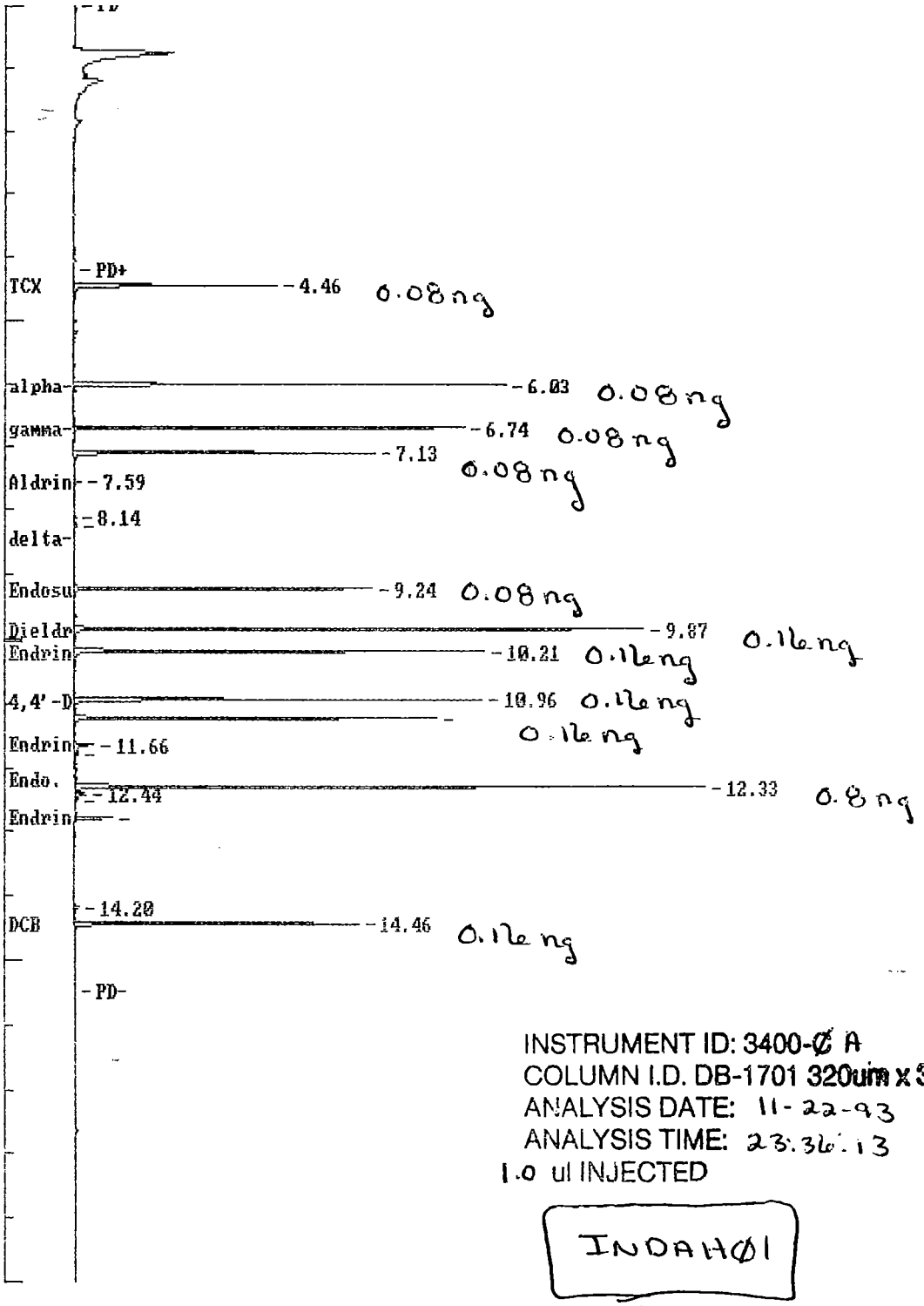
****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	4.870		0.3657	2.3805%	3657	866	4.2	2			1.0000E-04
4	5.020	TCX	0.0167	0.1085%	122998	69540	1.8	2	4	0	1.3549E-07
5	5.200		1.4812	9.6417%	14812	3576	4.1	2			1.0000E-04
6	5.335		1.1443	7.4486%	11443	4619	2.5	3			1.0000E-04
10	6.000		1.6682	10.8591%	16682	6621	2.5	1			1.0000E-04
11	6.440	alpha-BHC	0.0152	0.0989%	207782	128699	1.6	1	4	0	7.3132E-08
12	6.650		0.3999	2.6033%	3999	1995	2.0	1			1.0000E-04
13	6.885		1.3101	8.5281%	13101	2089	6.3	1			1.0000E-04
14	7.205	gamma-BHC	0.0174	0.1133%	189450	117130	1.6	2	4	0	9.1880E-08
18	7.800	Heptachlor	0.0184	0.1200%	165393	90634	1.8	1	4	0	1.1145E-07
21	8.405	Aldrin	0.0003	0.0022%	4185	2172	1.9	1	4	.1797	8.1798E-08
22	8.595		4.4129	28.7256%	44129	10750	4.1	1			1.0000E-04
27	10.120	Endosulfan I	0.0180	0.1169%	161327	85197	1.9	1	4	0	1.1134E-07
30	10.690	Dieldrin	0.0274	0.1785%	274996	148167	1.9	2	4	0	9.9731E-08
34	11.345	Endrin	0.0268	0.1742%	220566	110928	2.0	2	4	0	1.2132E-07
35	11.635	4,4'-DDD	0.0259	0.1686%	192199	105519	1.8	3	4	0	1.3477E-07
39	12.160	4,4'-DDT	0.0314	0.2041%	192666	110737	1.7	2	4	0	1.5277E-07
40	12.290	Endrin Aldehyde	0.0021	0.0136%	12013	6228	1.9	2	4	.0814	1.7436E-07
41	12.505	Endo. sulfate	0.0006	0.0038%	3673	1406	2.6	1	4	0	1.5764E-07
42	12.630		4.3153	28.0900%	43153	11472	3.8	1			1.0000E-04
47	13.740	Methoxychlor	0.0380	0.2474%	304850	166321	1.8	2	4	0	1.2466E-07
48	13.850	Endrin Ketone	0.0087	0.0565%	19945	10737	1.9	2	4	0	4.3502E-07
53	15.975	DCB	0.0179	0.1165%	171693	71074	2.4	1	4	0	1.0420E-07

TOTAL AMOUNT = 15.3623

Areas, times, and heights stored in: O:076A15.ATB
Data File = O:076A15.PTS Printed on 11-23-1993 at 10:00:21
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 500 millivolts

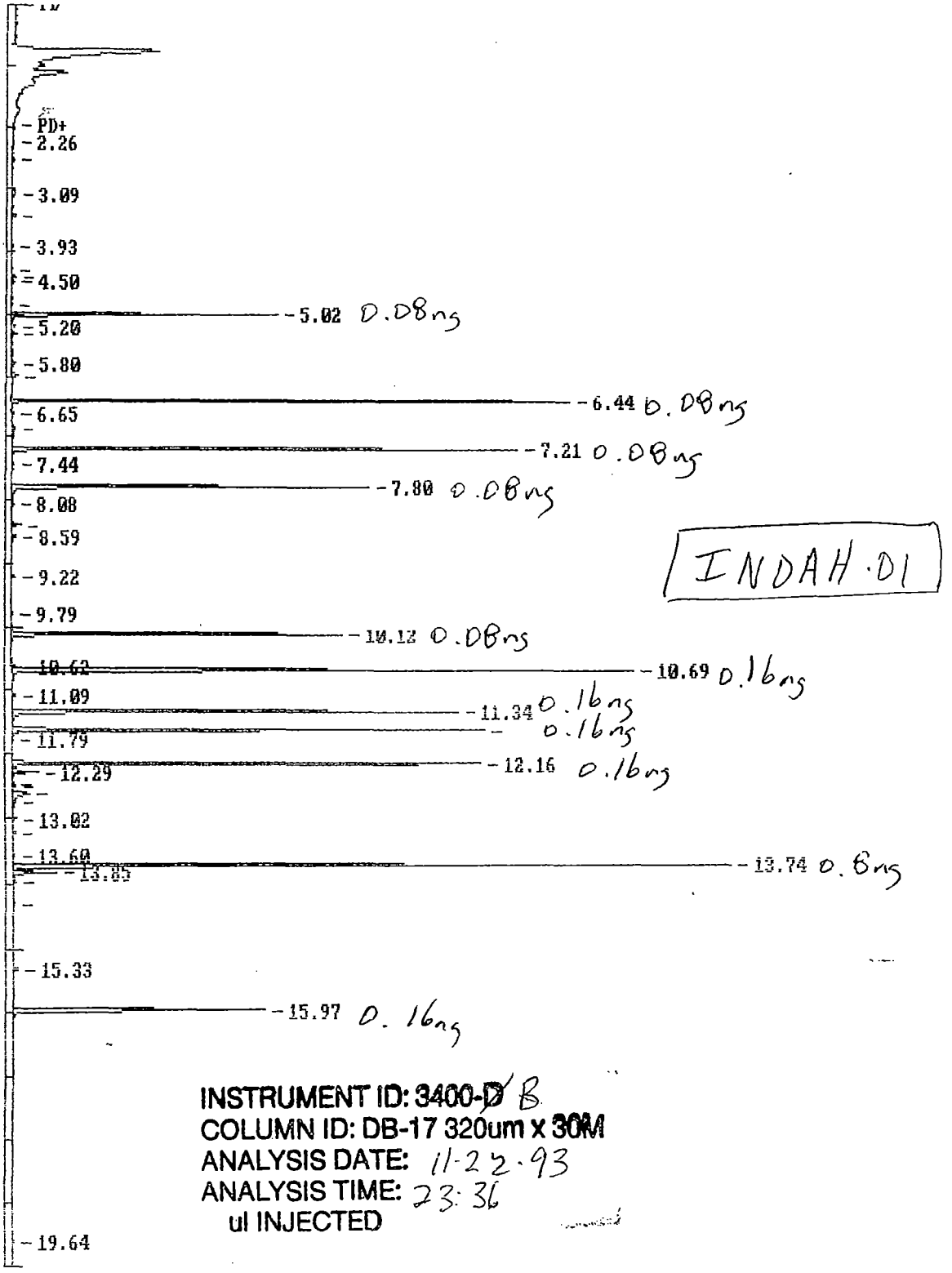


INSTRUMENT ID: 3400-Ø A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 23:36:13
1.0 ul INJECTED

INDAHØ1

11-23-93

Data File = D:076B15.PTS Printed on 11-24-1993 at 11:00:24
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 800 millivolts



INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 23:36
ul INJECTED

11.24.93
BMG

EXTERNAL STANDARD TABLE

********** 11-23-1993 10:00:13 Version 5.1 **********

* Sample Name: INDAH01,I; Data File: 0:076A15 *
* Date: 11-22-1993 23:36:13 Method: 0:076AB 11-23-1993 09:59:44 # 842 *
* Interface: 1 Cycle#: 15 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.460	TCX	7.1896	1.2608%	245232	130632	1.9	1	1	0	2.9318E-05
8	6.030	alpha-BHC	44.2012	7.7514%	420956	279250	1.5	2	1	0	1.0500E-04
13	6.740	gamma-BHC	29.6964	5.2077%	384399	252710	1.5	2	1	0	7.7254E-05
15	7.130	Heptachlor	26.9160	4.7201%	326324	193496	1.7	2	1	0	8.2482E-05
18	7.590	Aldrin	0.5897	0.1034%	8086	4671	1.7	2	1	.1319	7.2922E-05
20	8.135		0.3685	0.0646%	3685	1704	2.2	2			1.0000E-04
22	8.265		0.3905	0.0685%	3905	2245	1.7	2			1.0000E-04
27	9.240	Endosulfan I	24.3262	4.2660%	331361	192091	1.7	2	1	0	7.3413E-05
32	9.865	Dieldrin	81.8179	14.3480%	633109	367342	1.7	3	1	.0507	1.2923E-04
35	10.205	Endrin	48.8730	8.5706%	483450	265650	1.8	2	1	0	1.0109E-04
40	10.955	4,4'-DDD	43.7360	7.6698%	451947	263998	1.7	3	1	-.0456	9.6772E-05
42	11.250	4,4'-DDT	33.7537	5.9192%	392634	233825	1.7	2	1	0	8.5967E-05
44	11.660	Endrin Aldehyde	3.7759	0.6622%	40717	12991	3.1	3	1	0	9.2734E-05
45	11.805		0.5874	0.1030%	5874	1931	3.0	4			1.0000E-04
49	12.325	Methoxychlor	186.1537	32.6449%	688925	405592	1.7	2	1	0	2.7021E-04
50	12.440		1.9526	0.3424%	19526	7130	2.7	2			1.0000E-04
51	12.525		0.4591	0.0805%	4591	2087	2.2	2			1.0000E-04
53	12.810	Endrin Ketone	1.9372	0.3397%	43288	24512	1.8	2	1	0	4.4753E-05
57	14.200		0.5109	0.0896%	5109	2808	1.8	1			1.0000E-04
58	14.455	DCB	33.0019	5.7874%	334277	182470	1.8	1	1	-.0345	9.8726E-05

TOTAL AMOUNT = 570.2376

Areas, times, and heights stored in: 0:076B14.ATB

EXTERNAL STANDARD TABLE

********** 11-23-1993 10:17:41 Version 5.1 **********

* Sample Name: INDAH01,I; Data File: 0:076B15 *
* Date: 11-22-1993 23:36:16 Method: 0:076BB 11-23-1993 10:16:12 # 875 *
* Interface: 2 Cycle#: 15 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

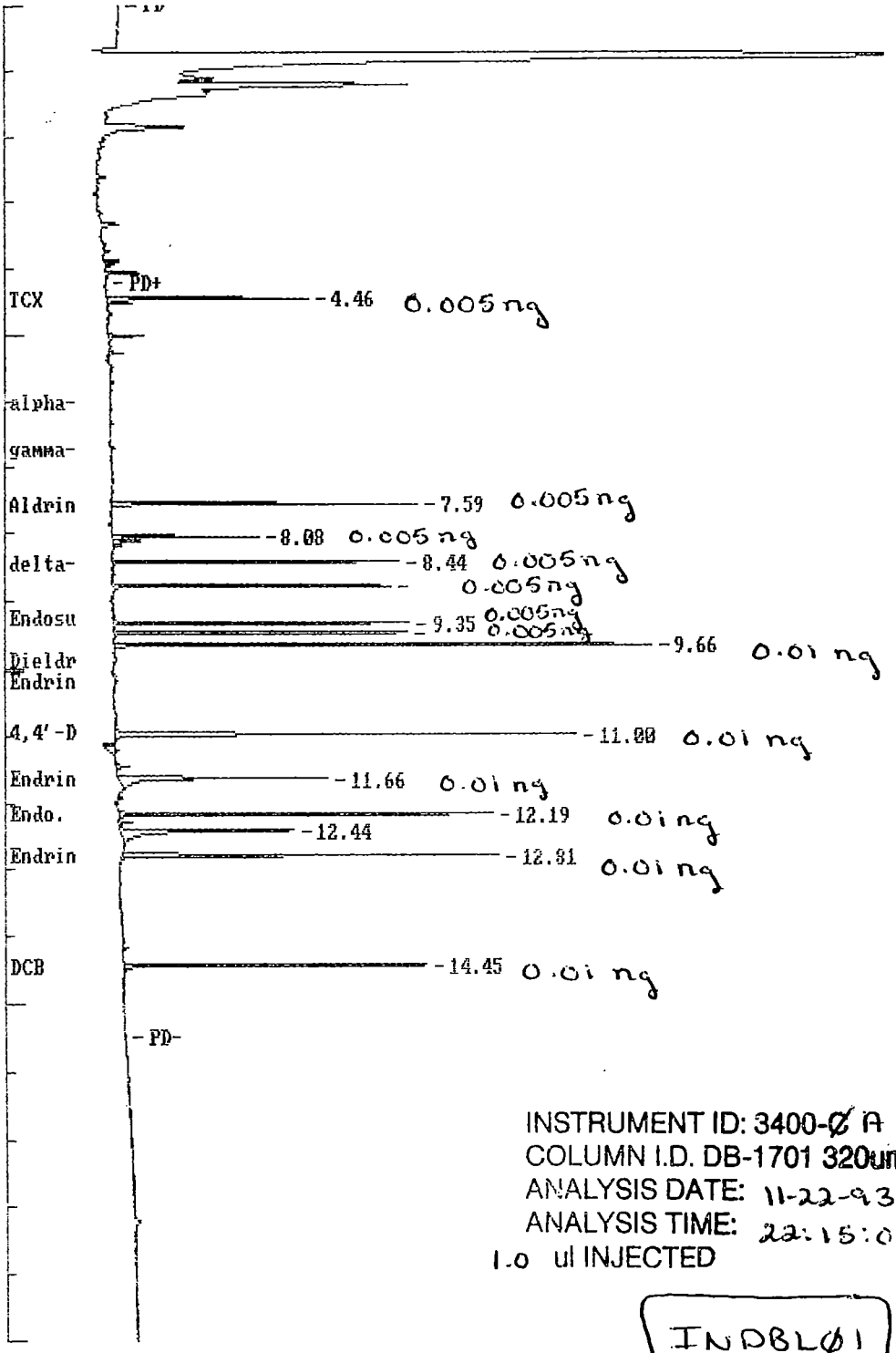
****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.500		0.3502	1.7685%	3502	1799	1.9	1			1.0000E-04
4	5.020	TCX	0.0600	0.3032%	443136	257662	1.7	2	4	0	1.3549E-07
5	5.200		1.4458	7.3018%	14458	3590	4.0	2			1.0000E-04
6	5.330		0.9838	4.9688%	9838	4232	2.3	2			1.0000E-04
10	5.795		0.6690	3.3789%	6690	3696	1.8	1			1.0000E-04
11	6.000		1.6676	8.4220%	16676	5876	2.8	2			1.0000E-04
13	6.435	alpha-BHC	0.0614	0.3099%	838971	544918	1.5	1	4	0	7.3132E-08
14	6.645		0.4017	2.0285%	4017	2025	2.0	1			1.0000E-04
15	6.880		1.2613	6.3700%	12613	3223	3.9	1			1.0000E-04
16	7.205	gamma-BHC	0.0689	0.3480%	749978	493129	1.5	1	4	0	9.1880E-08
19	7.435		0.3524	1.7795%	3524	1606	2.2	2			1.0000E-04
21	7.800	Heptachlor	0.0717	0.3619%	642945	347102	1.9	3	4	0	1.1145E-07
22	8.075	delta-BHC	0.0005	0.0027%	5216	1891	2.8	4	4	.1861	1.0128E-07
24	8.400	Aldrin	0.0012	0.0060%	14564	8261	1.8	1	4	.1192	8.1798E-08
25	8.590		1.1051	5.5811%	11051	3415	3.2	1			1.0000E-04
27	9.220		0.6146	3.1041%	6146	3592	1.7	1			1.0000E-04
33	10.120	Endosulfan I	0.0671	0.3387%	602329	321114	1.9	1	4	0	1.1134E-07
35	10.620	4,4'-DDE	0.0006	0.0032%	5690	3696	1.5	2	4	0	1.1134E-07
36	10.685	Dieldrin	0.1096	0.5534%	1098794	606473	1.8	2	4	0	9.9731E-08
38	11.090		0.7622	3.8495%	7622	3350	2.3	2			1.0000E-04
39	11.340	Endrin	0.1010	0.5101%	832481	435224	1.9	2	4	0	1.2132E-07
40	11.630	4,4'-DDD	0.1033	0.5219%	766720	461528	1.7	2	4	0	1.3477E-07
43	12.160	4,4'-DDT	0.1295	0.6539%	795442	457448	1.7	2	4	0	1.6277E-07
44	12.290	Endrin Aldehyde	0.0090	0.0453%	51493	24922	2.1	2	4	.0814	1.7436E-07
46	12.510	Endo. sulfate	0.0009	0.0048%	6021	2910	2.1	2	4	0	1.5754E-07
47	12.630		6.4034	32.3397%	64034	16364	3.9	3			1.0000E-04
48	12.740		0.4248	2.1453%	4248	1623	2.6	4			1.0000E-04
49	13.020		0.6034	3.0472%	6034	2125	1.9	1			1.0000E-04
51	13.240		0.4504	2.2746%	4504	1973	2.3	2			1.0000E-04
53	13.740	Methoxychlor	0.1523	0.7692%	1221723	698803	1.7	2	4	0	1.2466E-07
54	13.845	Endrin Ketone	0.0356	0.1799%	81878	41812	2.0	2	4	.0361	4.3502E-07
55	13.980		0.3676	1.8563%	3676	2294	1.6	1			1.0000E-04
59	15.325		0.9025	4.5581%	9025	4295	2.1	1			1.0000E-04
61	15.970	DCB	0.0622	0.3141%	596791	245117	2.4	1	4	0	1.0420E-07

TOTAL AMOUNT = 19.8004

Areas, times, and heights stored in: 0:076A12.ATB
Data File = 0:076A12.PTS Printed on 11-23-1993 at 09:53:05
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 40 millivolts

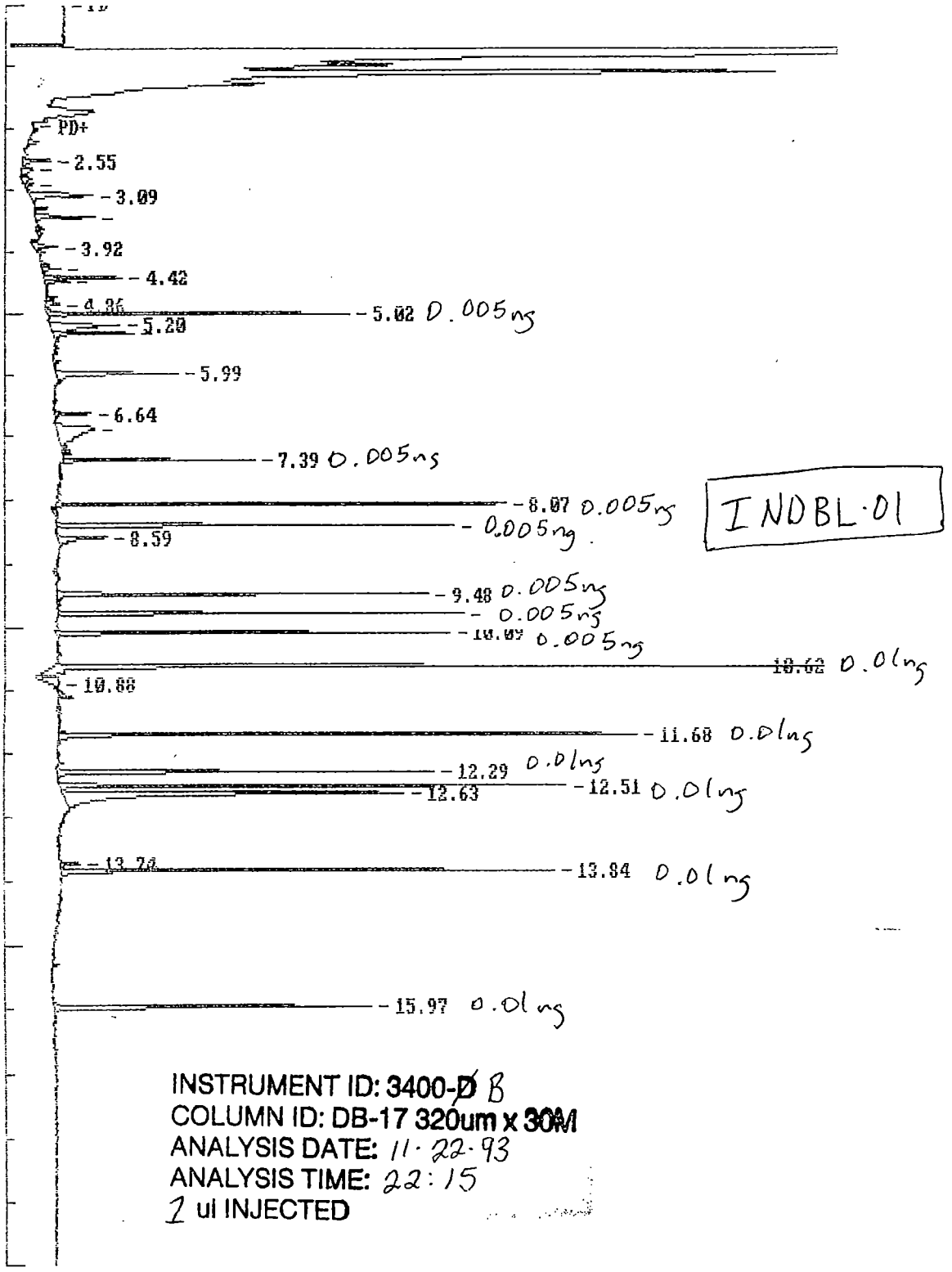


INSTRUMENT ID: 3400-Ø A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 22:15:01
1.0 ul INJECTED

INDBLØ1

11-23-93

Data File = O:076B12.PTS Printed on 11-23-1993 at 14:33:03
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 50 millivolts



11-24-93 BMG

EXTERNAL STANDARD TABLE

```
******************** 11-23-1993 09:52:56 Version 5.1 ************************
* Sample Name: INDBL01,I;                          Data File: 0:076A12        *
* Date: 11-22-1993 22:15:01 Method: 0:076AB  11-23-1993 09:51:32  #  840    *
* Interface: 1   Cycle#:  12   Operator DB  Channel#: 0    Vial#: N.A.       *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250                *
*****************************************************************************
* Instrument Type: 3400-A                  Column Type: DB-1701 .32mm x 30M  *
*              Solvent Description: carrier gas = H2; make-up = N2           *
* Conditions:  110H.5to140@20/minto280@11/minH9 INJ=210 DET=300              *
*             Detector 0: ECD Range1          Detector 1: ECD Range1         *
* Misc. Information: 11/22/93,P,;                                            *
*****************************************************************************
Starting Delay:    0.00                      Ending retention time:    20.00
Area reject:      3500                       One sample per    0.300 sec.
Amount injected:        1.00                 Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.455	TCX	0.5105	1.5788%	17412	9952	1.7	2	1	0	2.9318E-05
8	7.585	Aldrin	1.7629	5.4523%	24176	15095	1.6	1	1	.1782	7.2922E-05
9	8.075	beta-BHC	0.6371	1.9704%	10581	7186	1.5	2	1	.1742	6.0215E-05
12	8.440	delta-BHC	1.9501	6.0313%	22085	14152	1.6	1	1	.1122	8.8302E-05
13	8.790	Hept. epoxide	1.9431	6.0095%	22189	13679	1.6	1	1	.2262	8.7570E-05
14	9.345	g. Chlordane	1.9146	5.9213%	24282	14610	1.7	1	1	.1658	7.8847E-05
15	9.480	a. Chlordane	1.8624	5.7600%	23520	14484	1.6	1	1	.1122	7.9185E-05
16	9.660	4,4'-DDE	4.6337	14.3311%	41972	26562	1.6	1	1	.1122	1.1040E-04
18	10.995	Endosulfan II	4.7041	14.5487%	39970	22833	1.8	1	1	.1577	1.1769E-04
21	11.655	Endrin Aldehyde	2.1576	6.6730%	23267	10341	2.2	1	1	.1551	9.2734E-05
23	12.190	Endo. sulfate	3.6064	11.1537%	32314	18516	1.7	1	1	.1944	1.1160E-04
25	12.435		2.5343	7.8380%	25343	8553	3.0	1			1.0000E-04
26	12.805	Endrin Ketone	1.4573	4.5070%	32563	18669	1.7	1	1	.1513	4.4753E-05
28	14.445	DCB	2.6594	8.2250%	26937	14926	1.8	1	1	0	9.8726E-05

TOTAL AMOUNT = 32.3334

EXTERNAL STANDARD TABLE

********** 11-23-1993 10:08:53 Version 5.1 **********

* Sample Name: INDBL01,I; Data File: 0:076B12 *
* Date: 11-22-1993 22:15:03 Method: 0:076BB 11-23-1993 09:47:42 # 874 *
* Interface: 2 Cycle#: 12 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

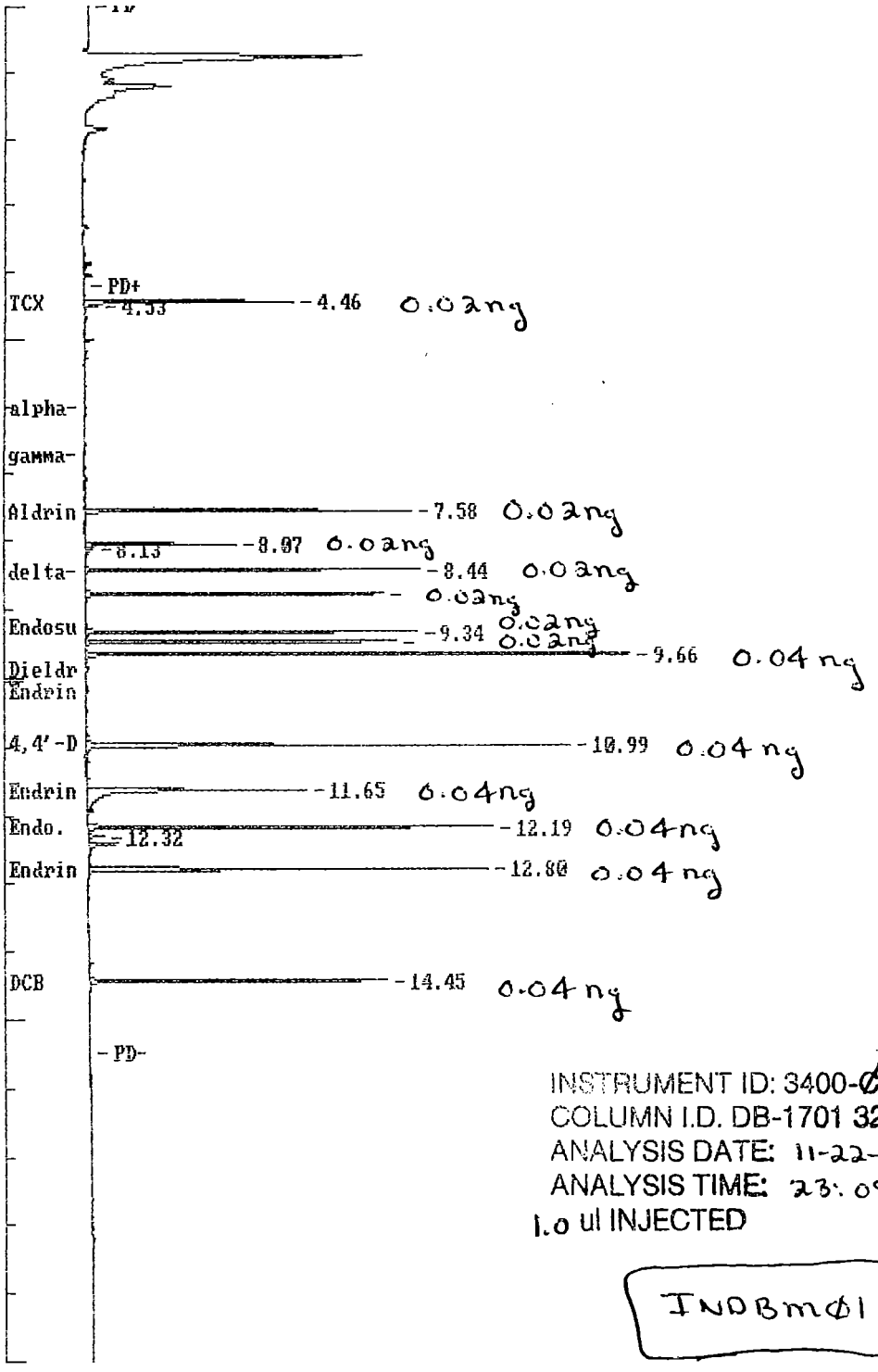
****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.860		0.3680	2.1003%	3680	875	4.2	2			1.0000E-04
3	5.015	TCX	0.0045	0.0254%	32848	18221	1.8	1	3	0	1.3549E-07
4	5.195		1.6200	9.2455%	16200	4197	3.9	2			1.0000E-04
5	5.325		1.1024	6.2918%	11024	4866	2.3	2			1.0000E-04
8	5.990		1.8882	10.7762%	18882	7308	2.5	1			1.0000E-04
11	6.640		0.4105	2.3426%	4105	2177	1.9	2			1.0000E-04
12	6.875		2.3567	13.4503%	23567	2286	10.3	2			1.0000E-04
16	7.385	beta-BHC	0.0053	0.0304%	19220	11657	1.6	1	3	.1675	2.7691E-07
18	8.065	delta-BHC	0.0044	0.0253%	43693	27266	1.6	1	3	.1617	1.0128E-07
20	8.395	Aldrin	0.0036	0.0207%	44401	24034	1.8	1	3	.1593	8.1798E-08
21	8.585		0.9982	5.6970%	9982	2964	3.4	1			1.0000E-04
23	9.480	Hept. epoxide	0.0043	0.0247%	41098	22414	1.8	2	3	0	1.0548E-07
25	9.785	g. Chlordane	0.0041	0.0234%	44290	24537	1.8	1	3	.1508	9.2400E-08
26	10.090	a. Chlordane	0.0040	0.0229%	43990	23825	1.8	1	3	0	9.1302E-08
27	10.615	4,4'-DDE	0.0097	0.0554%	87119	46707	1.9	1	3	0	1.1134E-07
28	10.880		0.4565	2.6055%	4565	319	14.3	1			1.0000E-04
34	11.680	Endosulfan II	0.0071	0.0406%	71500	35059	2.0	2	3	0	9.9585E-08
37	12.285	Endrin Aldehyde	0.0081	0.0464%	46581	22809	2.0	1	3	.1404	1.7436E-07
38	12.505	Endo. sulfate	0.0093	0.0528%	58718	30760	1.9	2	3	.1397	1.5764E-07
39	12.625		8.2265	46.9498%	82265	20667	4.0	2			1.0000E-04
41	13.840	Endrin Ketone	0.0254	0.1452%	58475	29932	2.0	2	3	0	4.3502E-07
43	15.965	DCB	0.0049	0.0279%	46931	19206	2.4	1	3	0	1.0420E-07

TOTAL AMOUNT = 17.5219

Areas, times, and heights stored in: 0:076A14.ATB
Data File = 0:076A14.PTS Printed on 11-23-1993 at 09:58:20
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 150 millivolts

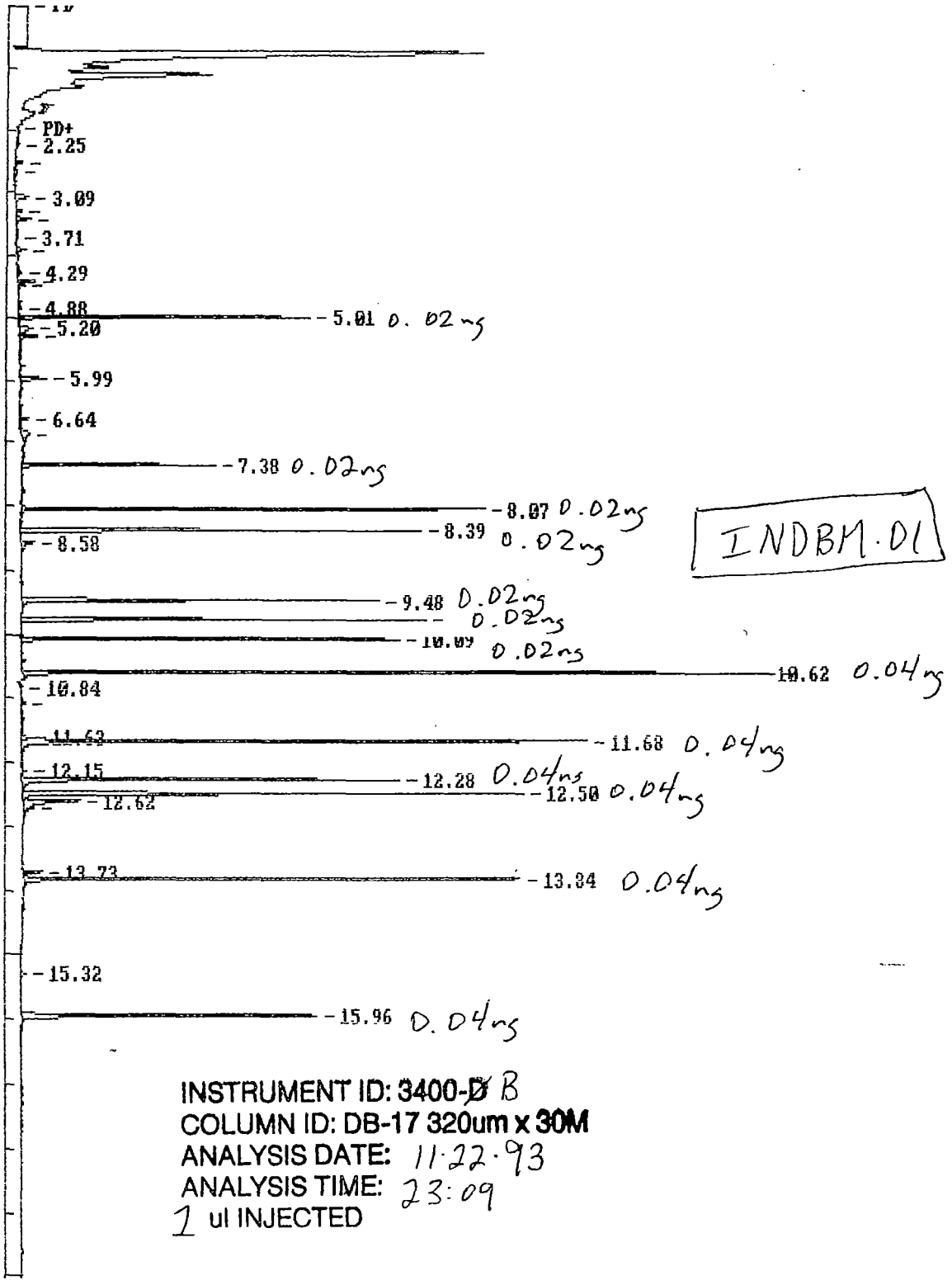


INSTRUMENT ID: 3400-ØA
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 23:09:14
1.0 ul INJECTED

INDBMØ1

11-23-93

Data File = 0:076B14.PTS Printed on 11-24-1993 at 10:59:20
Start time: 0.00 min. Stop time: 20.02 min. Offset: 0 mv.
Full Range: 200 millivolts



INDBM.01

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11.22.93
ANALYSIS TIME: 23:09
1 ul INJECTED

11.24.93 BMG

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:58:09 Version 5.1 **********

* Sample Name: INDBM01,I; Data File: 0:076A14 *
* Date: 11-22-1993 23:09:14 Method: 0:076AB 11-23-1993 09:56:48 # 841 *
* Interface: 1 Cycle#: 14 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.455	TCX	1.9889	1.6009%	67839	38099	1.8	2	1	0	2.9318E-05
2	4.530		0.5066	0.4078%	5066	2531	2.0	2			1.0000E-04
15	7.580	Aldrin	7.1618	5.7648%	98211	59329	1.7	1	1	.1122	7.2922E-05
16	8.070	beta-BHC	2.5301	2.0366%	42018	27381	1.5	2	1	.1122	6.0215E-05
17	8.130		0.3630	0.2922%	3630	1602	2.3	2			1.0000E-04
20	8.435	delta-BHC	8.2120	6.6101%	92999	60966	1.5	1	1	0	8.8302E-05
22	8.785	Hept. epoxide	7.9367	6.3885%	90633	54245	1.7	1	1	.1692	8.7570E-05
24	9.340	g. Chlordane	7.7342	6.2255%	98091	60316	1.6	2	1	.1122	7.8847E-05
25	9.480	a. Chlordane	7.4598	6.0047%	94207	56488	1.7	2	1	.1122	7.9185E-05
26	9.655	4,4'-DDE	18.8360	15.1617%	170617	99258	1.7	1	1	0	1.1040E-04
32	10.990	Endosulfan II	18.8368	15.1624%	160054	88406	1.8	1	1	.1122	1.1769E-04
35	11.650	Endrin Aldehyde	10.0885	8.1206%	108790	40005	2.7	3	1	.1122	9.2734E-05
37	12.185	Endo. sulfate	14.2457	11.4668%	127644	73854	1.7	2	1	.1533	1.1160E-04
38	12.315	Methoxychlor	1.2288	0.9891%	4548	2815	1.6	2	1	0	2.7021E-04
39	12.435		1.5047	1.2112%	15047	5406	2.8	1			1.0000E-04
41	12.800	Endrin Ketone	5.7295	4.6119%	128026	72739	1.8	2	1	.1122	4.4753E-05
46	14.445	DCB	9.8706	7.9452%	99980	54043	1.8	1	1	0	9.8726E-05

TOTAL AMOUNT = 124.2338

Areas, times, and heights stored in: 0:076B13.ATB

EXTERNAL STANDARD TABLE

********** 11-23-1993 10:17:01 Version 5.1 **********

* Sample Name: INDBM01,I; Data File: 0:076B14 *
* Date: 11-22-1993 23:09:17 Method: 0:076BB 11-23-1993 10:16:12 # 875 *
* Interface: 2 Cycle#: 14 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

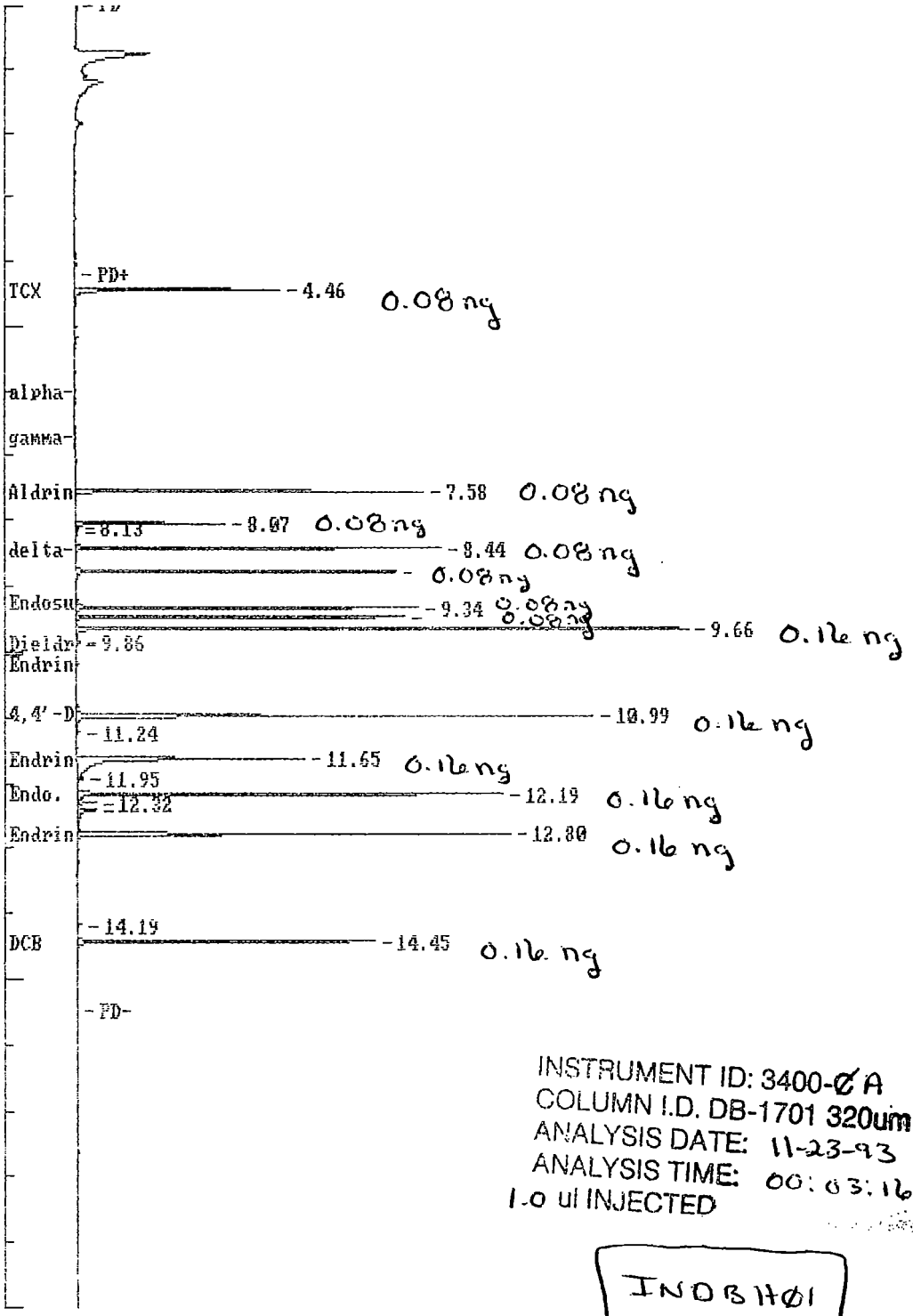
Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.880		0.3927	2.9702%	3927	895	4.4	2			1.0000E-04
3	5.010	TCX	0.0168	0.1267%	123658	69740	1.8	2	3	0	1.3549E-07
4	5.195		1.4297	10.8140%	14297	3354	4.3	2			1.0000E-04
5	5.325		1.2024	9.0950%	12024	4424	2.7	3			1.0000E-04
10	5.990		1.5262	11.5443%	15262	6208	2.5	1			1.0000E-04
12	6.635		0.4640	3.5096%	4640	2101	2.2	1			1.0000E-04
13	6.880		1.2253	9.2679%	12253	1915	6.4	1			1.0000E-04
16	7.380	beta-BHC	0.0204	0.1543%	73682	45994	1.6	1	3	.1996	2.7691E-07
20	8.065	delta-BHC	0.0177	0.1338%	174630	111486	1.6	1	3	.2617	1.0128E-07
22	8.390	Aldrin	0.0143	0.1083%	175069	96184	1.8	1	3	.1996	8.1798E-08
23	8.580		1.0370	7.8438%	10370	3151	3.3	1			1.0000E-04
26	9.480	Hept. epoxide	0.0169	0.1277%	160104	85630	1.9	1	3	.1996	1.0548E-07
27	9.780	g. Chlordane	0.0160	0.1212%	173447	97010	1.8	1	3	.1996	9.2400E-08
28	10.085	~~Endosulfan~~ Ia chlordane	0.0184	0.1395%	165686	90722	1.8	1	3	-.1469	1.1134E-07
31	10.615	4,4'-DDE	0.0345	0.2609%	309744	180640	1.7	1	3	.1524	1.1134E-07
39	11.680	Endosulfan II	0.0276	0.2085%	276804	136079	2.0	2	3	.1995	9.9585E-08
42	12.280	Endrin Aldehyde	0.0312	0.2358%	178761	90603	2.0	2	3	.1996	1.7436E-07
43	12.500	Endo. sulfate	0.0357	0.2697%	226170	120527	1.9	2	3	.1996	1.5764E-07
44	12.620		5.1584	39.0184%	51584	13407	3.8	3			1.0000E-04
45	12.730		0.4176	3.1591%	4176	1628	2.6	4			1.0000E-04
47	13.730	Methoxychlor	0.0011	0.0087%	9221	4522	2.0	1	3	.1266	1.2466E-07
48	13.835	Endrin Ketone	0.0987	0.7467%	226938	119456	1.9	1	3	.1634	4.3502E-07
52	15.960	DCB	0.0180	0.1358%	172282	70755	2.4	1	3	.1368	1.0420E-07

TOTAL AMOUNT = 13.2204

11.24.93
BG

Areas, times, and heights stored in: 0:076A16.ATB
Data File = 0:076A16.PTS Printed on 11-23-1993 at 10:01:43
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 500 millivolts

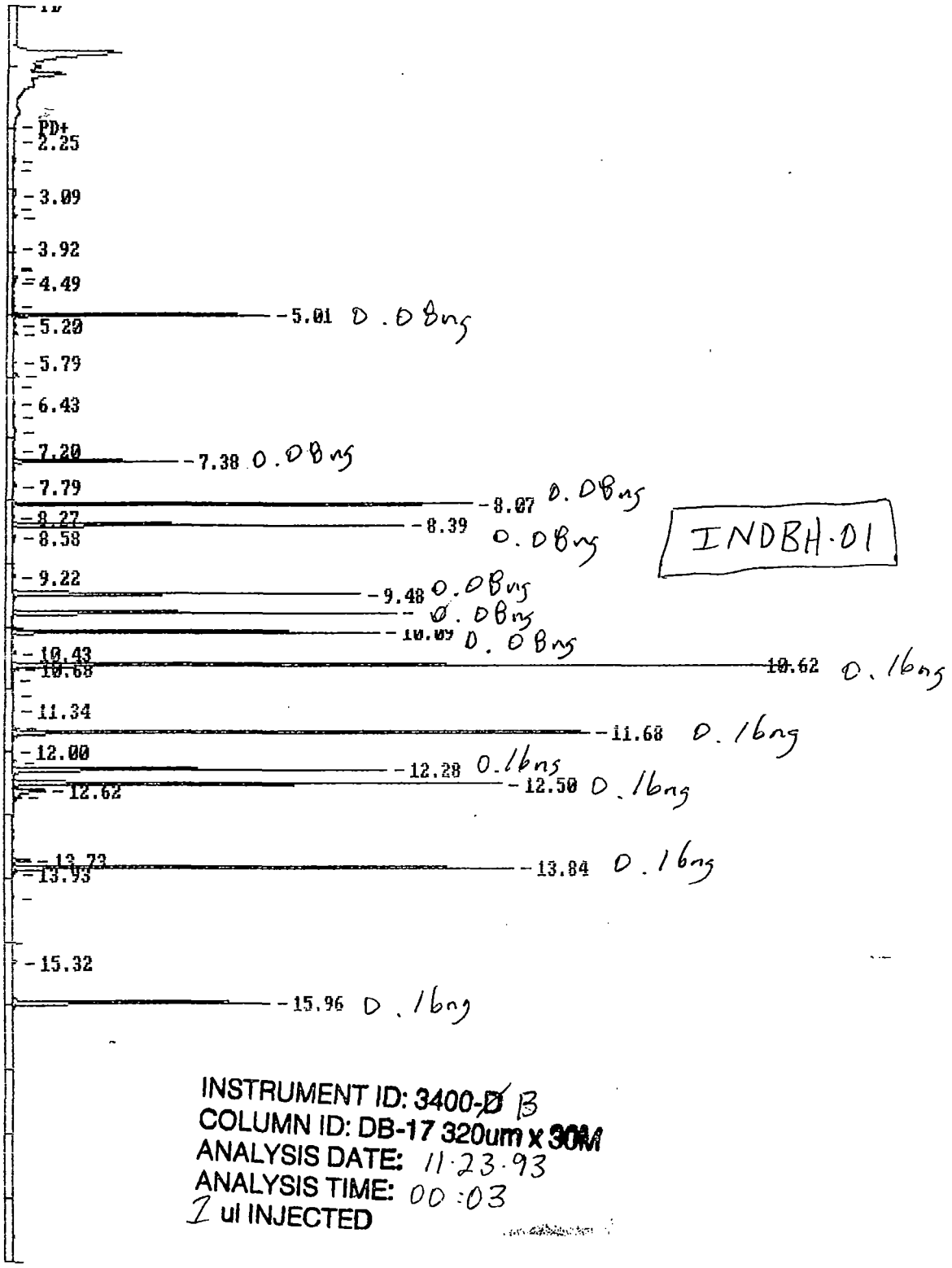


INSTRUMENT ID: 3400-Ø A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-23-93
ANALYSIS TIME: 00:03:16
1.0 ul INJECTED

INOB1H01

11-23-93

Data File = Q:076B16.PTS Printed on 11-24-1993 at 11:01:32
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 820 millivolts



INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11.23.93
ANALYSIS TIME: 00:03
1 ul INJECTED

11.24.93
BMG

EXTERNAL STANDARD TABLE

```
******************** 11-23-1993 10:01:25 Version 5.1 ********************
* Sample Name: INDBH01,I;                          Data File: 0:076A16      *
* Date: 11-23-1993 00:03:16 Method: 0:076AB  11-23-1993 09:59:44  #  842  *
* Interface: 1   Cycle#:  16   Operator DB  Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250              *
*************************************************************************
* Instrument Type: 3400-A                  Column Type: DB-1701 .32mm x 30M  *
*            Solvent Description: carrier gas = H2; make-up = N2           *
* Conditions:  110H.5to140@20/minto280@11/minH9 INJ=210 DET=300            *
*            Detector 0: ECD Range1          Detector 1: ECD Range1        *
* Misc. Information: 11/22/93,P,;                                          *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    20.00
Area reject:      3500                     One sample per    0.300 sec.
Amount injected:        1.00               Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.455	TCX	7.2649	1.5827%	247801	129797	1.9	2	1	0	2.9318E-05
17	7.580	Aldrin	26.2953	5.7286%	360596	219522	1.6	1	1	.1122	7.2922E-05
18	8.070	beta-BHC	8.8822	1.9351%	147509	94041	1.6	2	1	.1122	6.0215E-05
19	8.125		0.3977	0.0866%	3977	1747	2.3	2			1.0000E-04
20	8.185		0.4269	0.0930%	4269	2140	2.0	2			1.0000E-04
22	8.435	delta-BHC	31.3559	6.8311%	355098	230676	1.5	2	1	0	8.8302E-05
24	8.785	Hept. epoxide	29.1605	6.3528%	332997	201730	1.7	1	1	.1692	8.7570E-05
27	9.340	g. Chlordane	28.4932	6.2075%	361372	216022	1.7	2	1	.1122	7.8847E-05
28	9.480	a. Chlordane	27.0379	5.8904%	341453	207235	1.6	2	1	.1122	7.9185E-05
29	9.660	4,4'-DDE	71.8713	15.6577%	651012	387122	1.7	2	1	.1122	1.1040E-04
30	9.855	Dieldrin	0.4957	0.1080%	3835	2224	1.7	2	1	0	1.2923E-04
31	9.890		0.3607	0.0786%	3607	2028	1.8	2			1.0000E-04
37	10.990	Endosulfan II	68.8749	15.0049%	585220	327342	1.8	3	1	.1122	1.1769E-04
39	11.240	4,4'-DDT	0.4426	0.0964%	5149	2545	2.0	2	1	0	8.5967E-05
42	11.650	Endrin Aldehyde	37.6226	8.1964%	405705	143721	2.8	3	1	.1122	9.2734E-05
43	11.945		0.5669	0.1235%	5669	2982	1.9	4			1.0000E-04
44	12.185	Endo. sulfate	52.7208	11.4856%	472390	269213	1.8	2	1	.1533	1.1150E-04
45	12.315	Methoxychlor	6.2115	1.3532%	22988	12079	1.9	2	1	0	2.7021E-04
46	12.435		4.5599	0.9934%	45599	12210	3.7	3			1.0000E-04
48	12.800	Endrin Ketone	21.2287	4.6248%	474357	273662	1.7	2	1	.1122	4.4753E-05
51	14.190		0.5278	0.1150%	5278	2953	1.8	1			1.0000E-04
52	14.445	DCB	34.2167	7.4544%	346581	187451	1.8	2	1	0	9.8726E-05

TOTAL AMOUNT = 459.0147

Areas, times, and heights stored in: 0:076B15.ATB

EXTERNAL STANDARD TABLE

********** 11-23-1993 10:18:39 Version 5.1 **********

* Sample Name: INDBH01,I; Data File: 0:076B16 *
* Date: 11-23-1993 00:03:19 Method: 0:076BB 11-23-1993 10:16:12 # 875 *
* Interface: 2 Cycle#: 16 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

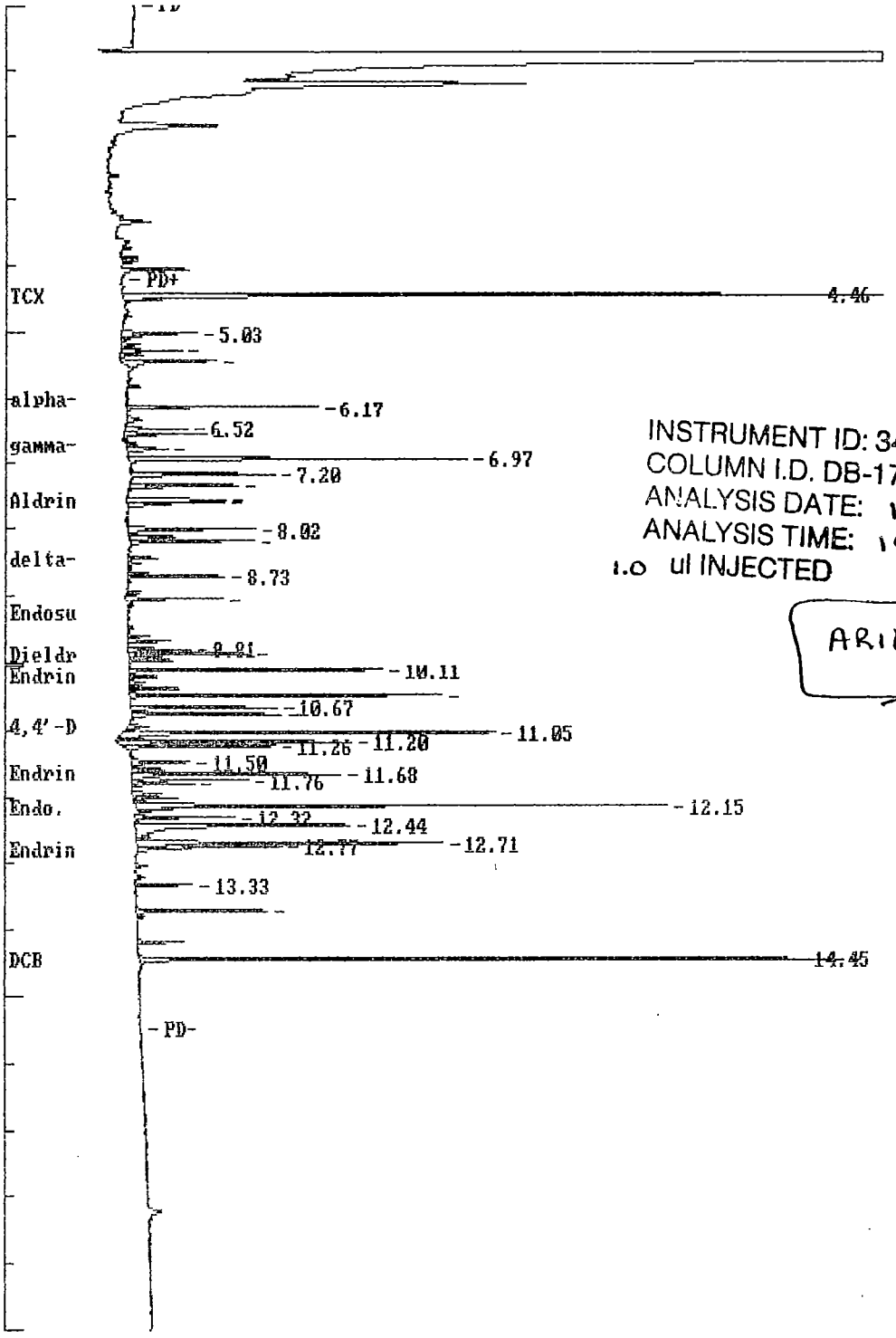
****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.885		0.4702	1.8011%	4703	1729	2.7	2			1.0000E-04
3	5.010	TCX	0.0599	0.2295%	442324	255664	1.7	2	3	0	1.3549E-07
4	5.195		1.3181	5.0485%	13181	3373	3.9	2			1.0000E-04
5	5.325		0.9376	3.5910%	9376	4112	2.3	2			1.0000E-04
8	5.785		0.6157	2.3584%	6157	3578	1.7	2			1.0000E-04
10	5.990		1.5101	5.7838%	15101	5761	2.6	2			1.0000E-04
13	6.640		0.3794	1.4532%	3794	1954	1.9	2			1.0000E-04
15	6.880		0.8112	3.1069%	8112	2418	3.4	1			1.0000E-04
19	7.380	beta-BHC	0.0724	0.2773%	261463	161175	1.6	2	3	.1996	2.7691E-07
22	7.790	Heptachlor	0.0005	0.0021%	4857	2665	1.8	2	3	0	1.1149E-07
23	8.065	delta-BHC	0.0708	0.2712%	599016	458897	1.5	1	3	.2617	1.0128E-07
25	8.390	Aldrin	0.0553	0.2116%	675530	390885	1.7	1	3	.1996	8.1798E-08
26	8.580		1.0647	4.0779%	10647	2995	3.6	1			1.0000E-04
30	9.215		0.3649	1.3978%	3649	2123	1.7	1			1.0000E-04
31	9.480	Hept. epoxide	0.0647	0.2478%	613256	347247	1.8	1	3	.1995	1.0548E-07
32	9.780	g. Chlordane	0.0618	0.2367%	668932	383110	1.7	1	3	.1996	9.2400E-08
34	10.085	~~Endosulfan I~~ a. chlordane	0.0700	0.2682%	628924	366169	1.7	2	3	-.1469	1.1134E-07
37	10.425		0.6426	2.4613%	6426	3286	2.0	1			1.0000E-04
38	10.615	4,4'-DDE	0.1424	0.5456%	1279415	777460	1.6	2	3	.1524	1.1134E-07
39	10.675	Dieldrin	0.0015	0.0059%	15316	5563	2.9	2	3	.1526	9.9731E-08
40	10.840		0.3548	1.3591%	3548	658	5.4	2			1.0000E-04
46	11.335	Endrin	0.0006	0.0021%	4575	2076	2.2	2	3	.1554	1.2132E-07
48	11.625	4,4'-DDD	0.0014	0.0053%	10202	6342	1.6	2	3	.1565	1.3477E-07
49	11.680	Endosulfan II	0.1091	0.4179%	1095686	577627	1.9	2	3	.1995	9.9585E-08
51	12.150	4,4'-DDT	0.0015	0.0059%	9396	4649	2.0	2	3	.1172	1.6277E-07
52	12.280	Endrin Aldehyde	0.1221	0.4678%	700419	374069	1.9	2	3	.1996	1.7436E-07
53	12.500	Endo. sulfate	0.1388	0.5316%	880438	489021	1.8	2	3	.1996	1.5764E-07
54	12.620		12.0429	46.1261%	120429	32194	3.7	2			1.0000E-04
55	12.730		2.3469	8.9889%	23469	7627	3.1	2			1.0000E-04
59	13.730	Methoxychlor	0.0044	0.0170%	35614	17558	2.0	2	3	.1266	1.2466E-07
60	13.840	Endrin Ketone	0.4008	1.5350%	921231	501108	1.8	2	3	.1995	4.3502E-07
61	13.930		0.8686	3.3268%	8686	3063	2.8	2			1.0000E-04
64	15.315		0.9384	3.5943%	9384	4613	2.0	1			1.0000E-04
65	15.960	DCB	0.0644	0.2466%	618011	256353	2.4	1	3	.1368	1.0420E-07

TOTAL AMOUNT = 26.1086

Areas, times, and heights stored in: O:076A4.ATB
Data File = O:076A4.PTS Printed on 11-23-1993 at 09:38:57
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 30 millivolts



INSTRUMENT ID: 3400-Ø A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 18:37:30
1.0 ul INJECTED

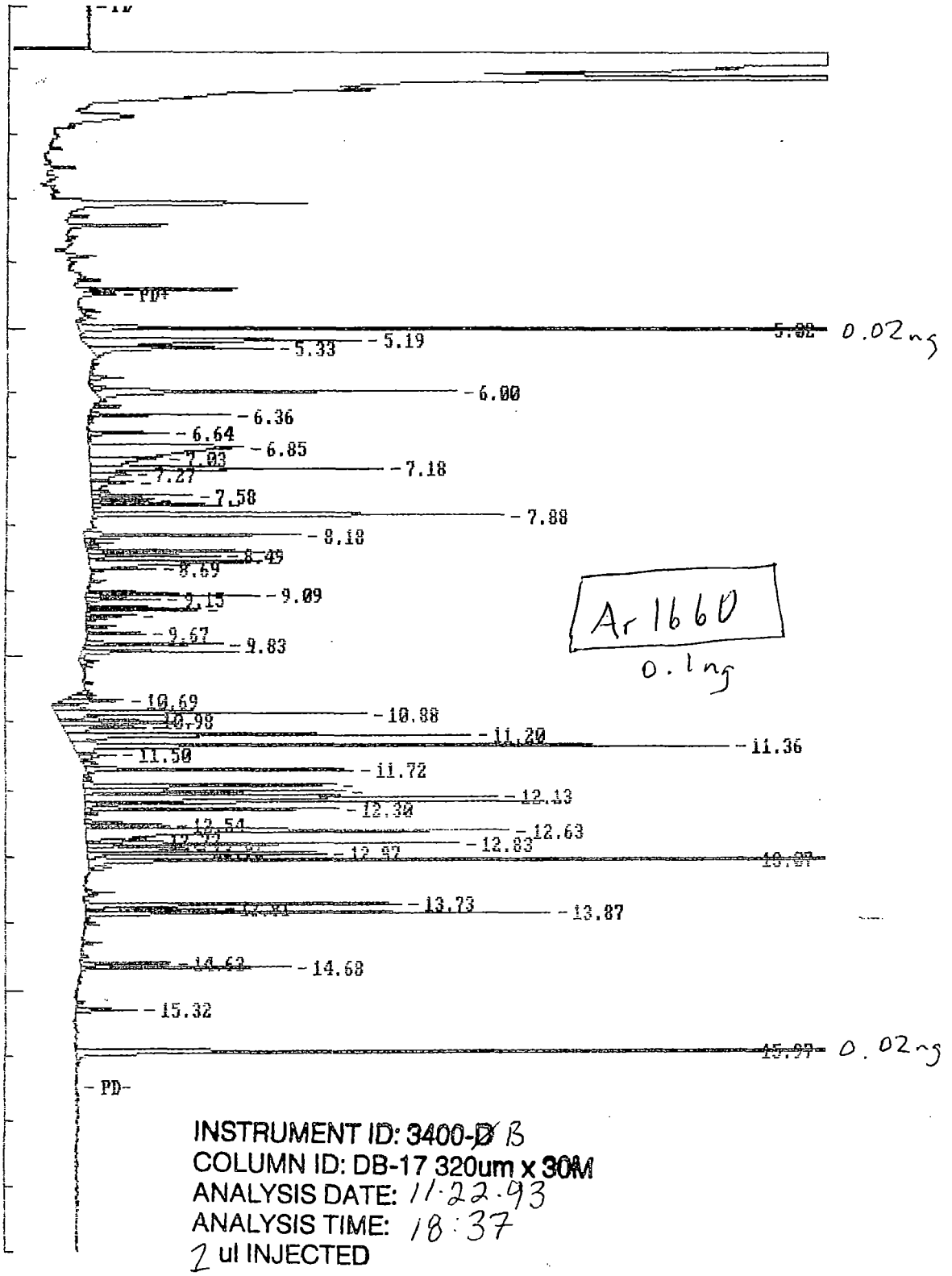
AR16601

0.1 ng

11-23-93

1679

Areas, times, and heights stored in: O:076B4.ATB
Data File = O:076B4.PTS Printed on 11-23-1993 at 09:54:06
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 35 millivolts



INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 18:37
2 ul INJECTED

11-22-93 BMG

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:38:30 Version 5.1 **********

* Sample Name: AR166001,I; Data File: O:076A4 *
* Date: 11-22-1993 18:37:30 Method: O:076AB 11-23-1993 09:38:14 # 838 *
* Interface: 1 Cycle#: 4 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.455	TCX	1.9466	4.0475%	66395	37268	1.8	2	1	0	2.9318E-05
.4	5.030	AR1016	0.5604	1.1653%	5604	2754	2.0	2			1.0000E-04
7	5.295		0.3857	0.8019%	3857	2216	1.7	2			1.0000E-04
9	5.455		0.7654	1.5915%	7654	3415	2.2	1			1.0000E-04
.11	6.170	AR1016	1.2015	2.4984%	12015	7137	1.7	1			1.0000E-04
13	6.515		0.3923	0.8157%	3923	2301	1.7	2			1.0000E-04
.14	6.585	AR1016	0.5674	1.1798%	5674	3042	1.9	2	11-29-93		1.0000E-04
16	6.820		0.3506	0.7289%	3506	1458	2.4	2			1.0000E-04
17	6.965		2.5558	5.3144%	25558	12591	2.0	1			1.0000E-04
18	7.200		1.0453	2.1736%	10453	5349	2.0	1			1.0000E-04
19	7.370		0.6676	1.3881%	6676	4053	1.6	2			1.0000E-04
21	7.580	Aldrin	0.4767	0.9913%	6538	3658	1.8	2	1	.1122	7.2922E-05
22	7.615		1.0234	2.1280%	10234	3594	2.8	2			1.0000E-04
23	8.015		1.1436	2.3778%	11436	4758	2.4	2			1.0000E-04
25	8.190		1.0611	2.2063%	10611	4616	2.3	2			1.0000E-04
29	8.725		0.5910	1.2289%	5910	3551	1.7	2			1.0000E-04
31	9.055		0.5817	1.2096%	5817	3515	1.7	1			1.0000E-04
36	9.810		0.3796	0.7894%	3796	2307	1.6	2			1.0000E-04
37	9.870	Dieldrin	0.9931	2.0649%	7684	4538	1.7	2	1	.2137	4.2923E-04
40	10.105		1.6321	3.3937%	16321	9466	1.7	2			1.0000E-04
44	10.485		2.0347	4.2308%	20347	11627	1.8	1			1.0000E-04
45	10.670		1.0449	2.1728%	10449	5451	1.9	2			1.0000E-04
46	10.770		1.0523	2.1881%	10523	5565	1.9	2			1.0000E-04
48	11.045		3.1753	6.6024%	31753	13866	2.3	2			1.0000E-04
50	11.195		1.5735	3.2718%	15735	8609	1.8	2			1.0000E-04
51	11.255	4,4'-DDT	0.9764	2.0303%	11358	5566	2.0	2	1	.1567	8.5967E-05
52	11.495		0.4539	0.9439%	4539	2137	2.1	2			1.0000E-04
55	11.680	Endrin Aldehyde	1.3502	2.8075%	14560	7796	1.9	2	1	.3700	9.2734E-05
56	11.760		0.7565	1.5731%	7565	4320	1.8	2			1.0000E-04
57	11.825		0.4114	0.8553%	4114	2297	1.8	2			1.0000E-04
.60	12.145	~~Endo. sulfate~~ AR1260	3.7991	7.8995%	34040	19779	1.7	2	1	-.1754	1.1160E-04
62	12.320	Methoxychlor	1.5755	3.2759%	5831	3675	1.6	1	1	.1122	2.7021E-04
63	12.440		2.6309	5.4705%	26309	8016	3.3	3			1.0000E-04
.65	12.705	AR1260	2.5605	5.3240%	25605	11405	2.2	2			1.0000E-04
66	12.765	Endrin Ketone	0.4999	1.0395%	11171	5396	2.1	2	1	-.1615	4.4753E-05
69	13.330		0.3650	0.7589%	3650	2104	1.7	1			1.0000E-04
.70	13.725	AR1260	0.8859	1.8420%	8859	4879	1.8	2			1.0000E-04
73	14.450	DCB	4.6259	9.6188%	46856	26207	1.8	1	1	0	9.8726E-05

TOTAL AMOUNT = 48.0927

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:53:11 Version 5.1 **********

* Sample Name: AR166001,I; Data File: 0:076B4 *
* Date: 11-22-1993 18:37:32 Method: 0:076BB 11-23-1993 09:47:42 # 874 *
* Interface: 2 Cycle#: 4 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	5.015	TCX	0.0162	0.0180%	119709	67553	1.8	1	4	0	1.3549E-07
5	5.190		4.2578	4.7195%	42578	11939	3.6	2			1.0000E-04
6	5.325		1.8985	2.1043%	18985	7782	2.4	2			1.0000E-04
10	5.995		4.2488	4.7095%	42488	15565	2.7	2			1.0000E-04
12	6.360	AR1016-1	0.9616	1.0659%	9616	6017	1.6	1			1.0000E-04
15	6.640		0.6649	0.7370%	6649	3437	1.9	1			1.0000E-04
16	6.850		5.2164	5.7820%	52164	6614	7.9	2			1.0000E-04
17	7.025		1.6007	1.7742%	16007	3123	5.1	2			1.0000E-04
18	7.175	gamma-BHC	0.0028	0.0031%	30815	12566	2.5	2	4	-.2478	9.1880E-08
19	7.270		0.6968	0.7723%	6968	1707	4.1	2			1.0000E-04
20	7.385	beta-BHC	0.0020	0.0022%	7245	1829	4.0	2	4	.1675	2.7691E-07
22	7.580		0.7835	0.8685%	7835	4287	1.8	2			1.0000E-04
23	7.655		0.5057	0.5605%	5057	2617	1.9	2			1.0000E-04
24	7.730		1.1240	1.2459%	11240	5524	2.0	2			1.0000E-04
25	7.875		4.7010	5.2108%	47010	17707	2.7	1			1.0000E-04
26	8.175	AR1016-2	1.6106	1.7852%	16106	9286	1.7	2			1.0000E-04
30	8.425		1.2879	1.4276%	12879	7580	1.7	2			1.0000E-04
31	8.490		0.9273	1.0278%	9273	5630	1.6	2			1.0000E-04
32	8.575		2.6625	2.9512%	26625	7352	3.6	2			1.0000E-04
33	8.690		0.5528	0.6128%	5528	2781	2.0	2			1.0000E-04
36	9.085	AR1016-3	1.2806	1.4195%	12806	7411	1.7	2			1.0000E-04
37	9.150		0.5305	0.5880%	5305	3201	1.7	1			1.0000E-04
38	9.265		0.4443	0.4925%	4443	2564	1.7	2			1.0000E-04
39	9.305		0.8232	0.9124%	8232	4838	1.7	2			1.0000E-04
40	9.395		0.3560	0.3946%	3560	2152	1.7	2			1.0000E-04
43	9.670		0.4355	0.4827%	4355	2519	1.7	1			1.0000E-04
44	9.825		1.0965	1.2154%	10965	5920	1.9	2			1.0000E-04
45	9.945		1.2947	1.4351%	12947	6684	1.9	2			1.0000E-04
51	10.685	Dieldrin	0.0010	0.0011%	9685	2557	3.8	2	4	.1465	9.9731E-08
52	10.810		0.4179	0.4633%	4179	1390	3.0	2			1.0000E-04
53	10.875		3.1486	3.4900%	31486	13280	2.4	2			1.0000E-04
54	10.975		0.7038	0.7801%	7038	3407	2.1	2			1.0000E-04
55	11.025		1.6352	1.8125%	16352	4956	3.3	2			1.0000E-04
56	11.095		0.9595	1.0636%	9595	3501	2.7	2			1.0000E-04
57	11.200	AR1260-1	4.3013	4.7677%	43013	17336	2.5	2			1.0000E-04
58	11.360	Endrin	0.0069	0.0077%	56981	28116	2.0	2	4	.2762	1.2132E-07
59	11.500		0.4880	0.5409%	4880	1573	3.1	2			1.0000E-04
61	11.715	Endosulfan II	0.0022	0.0025%	22419	11426	2.0	2	4	.3996	9.9585E-08
63	11.945		2.7082	3.0019%	27082	10790	2.5	2			1.0000E-04

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65	12.125	4,4'-DDT	0.0078	0.0088%	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
66	12.190		3.8182	4.2322%	38182	19758	1.9	2			1.0000E-04
67	12.300	Endrin Aldehyde	0.0037	0.0041%	21196	10887	1.9	2	4	.2527	1.7436E-07
70	12.540	Endo. sulfate	0.0011	0.0012%	7125	3597	2.0	2	4	.4200	1.5764E-07
71	12.625		6.8353	7.5765%	68353	18222	3.8	3			1.0000E-04
72	12.770		0.5109	0.5663%	5109	2260	2.3	4			1.0000E-04
73	12.825	AR 1260-2	3.0997	3.4358%	30997	16030	1.9	2			1.0000E-04
74	12.905		1.3187	1.4617%	13187	4347	3.0	2			1.0000E-04
75	12.970		2.3241	2.5761%	23241	10253	2.3	2			1.0000E-04
76	13.065		8.7325	9.6795%	87325	45275	1.9	3			1.0000E-04
79	13.730	Methoxychlor	0.0041	0.0045%	32643	13580	2.4	2	4	0	1.2466E-07
80	13.805	Endrin Ketone	0.0045	0.0049%	10257	5600	1.8	2	4	-.1534	4.3502E-07
81	13.865	AR 1260-3	3.9497	4.3780%	39497	19973	2.0	2			1.0000E-04
85	14.615		0.7016	0.7777%	7016	3832	1.8	2			1.0000E-04
86	14.675		1.7145	1.9005%	17145	8969	1.9	2			1.0000E-04
88	15.320		0.5609	0.6218%	5609	2629	2.1	1			1.0000E-04
89	15.965	DCB	0.0085	0.0094%	81202	32455	2.5	1	4	0	1.0420E-07

TOTAL AMOUNT = 90.2169

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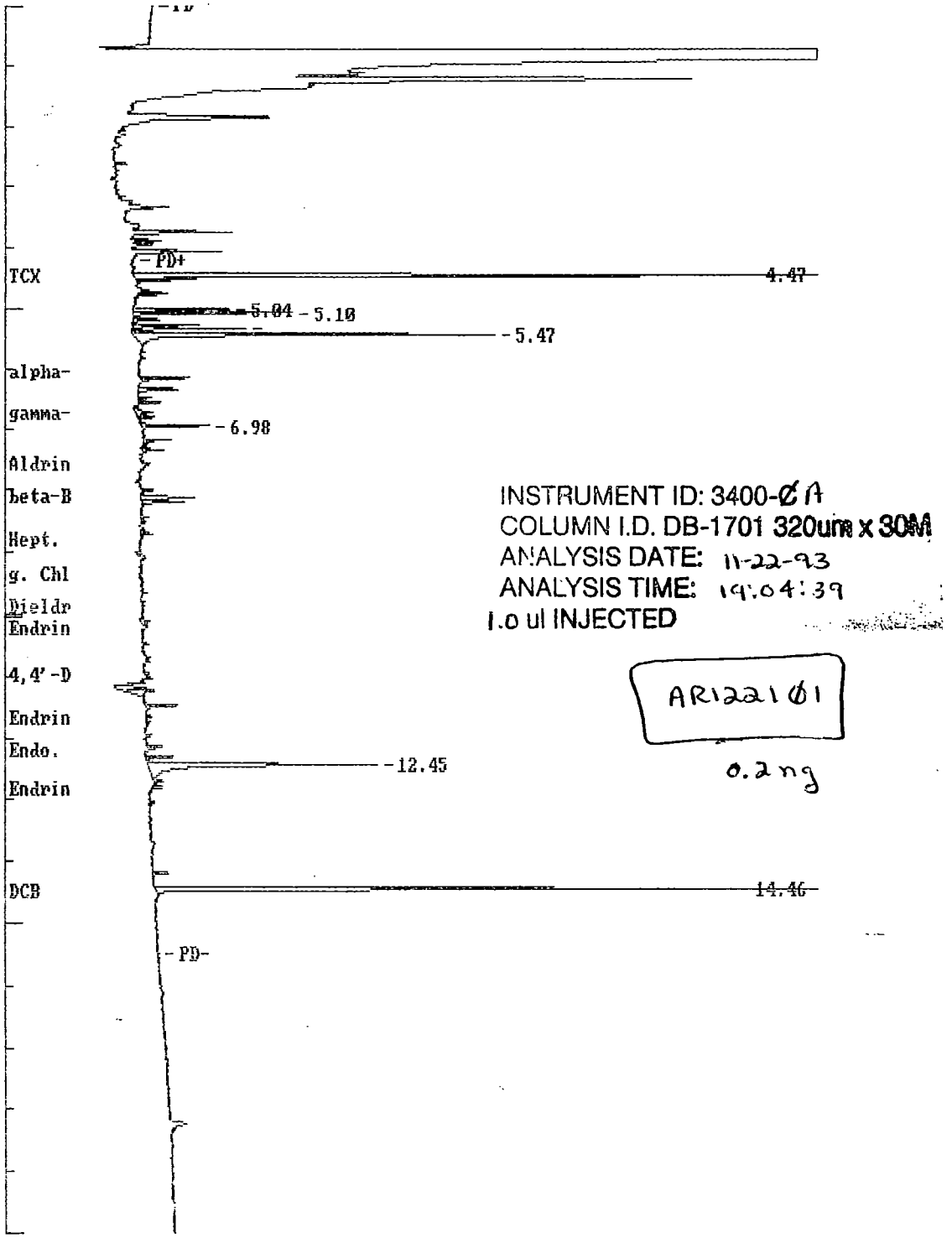
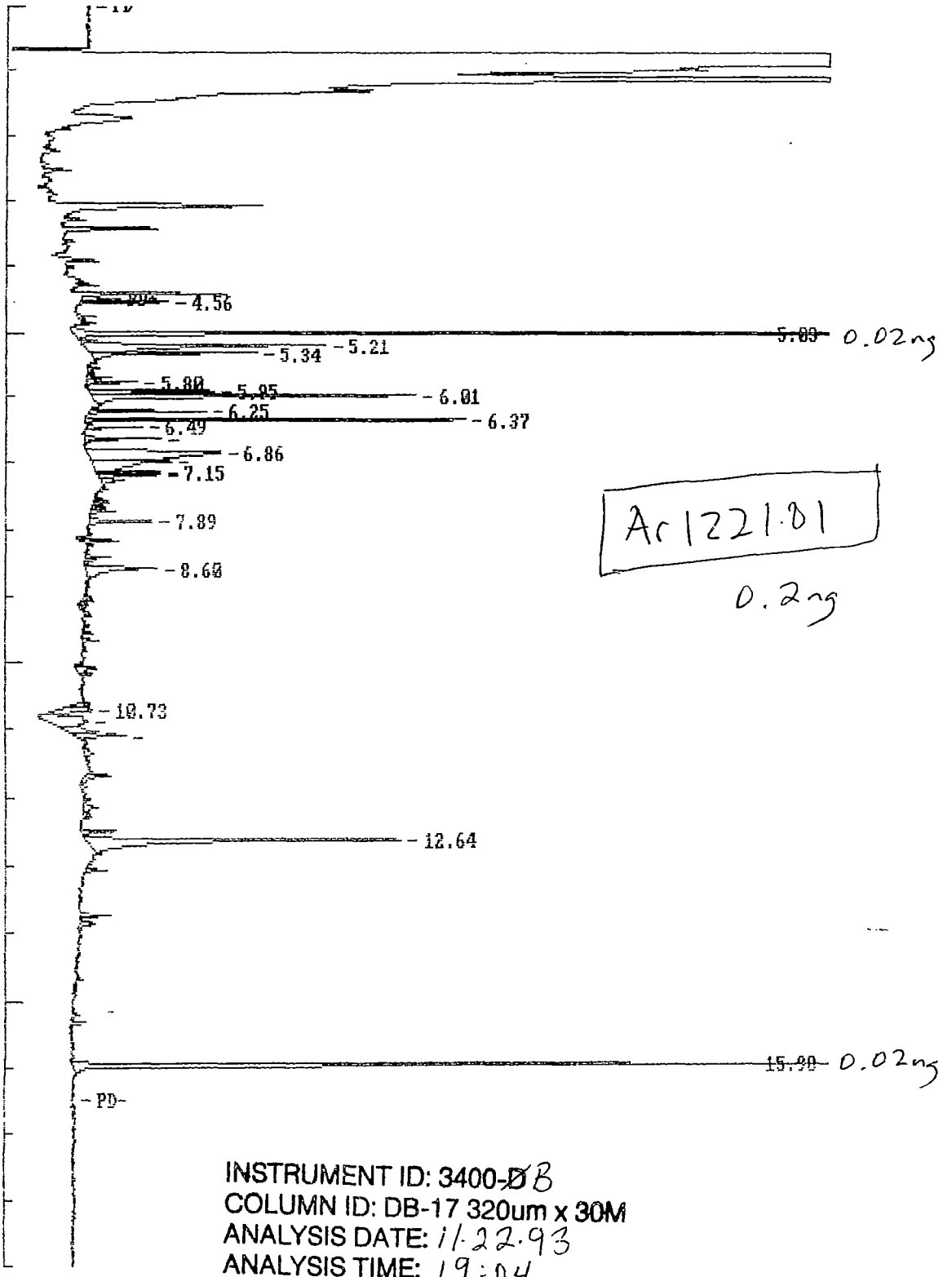
Areas, times, and heights stored in: 0:076A5.ATB
Data File = 0:076A5.PTS Printed on 11-23-1993 at 09:43:29
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 20 millivolts



11-23-93

Areas, times, and heights stored in: O:076B5.ATB
Data File = O:076B5.PTS Printed on 11-23-1993 at 09:55:48
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 35 millivolts



Ar1221.01

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INSTRUMENT ID: 3400-~~D~~B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11.22.93
ANALYSIS TIME: 19:04
1 ul INJECTED

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EXTERNAL STANDARD TABLE

********** 11-23-1993 09:43:23 Version 5.1 **********

* Sample Name: AR122101,I; Data File: 0:076A5 *
* Date: 11-22-1993 19:04:39 Method: 0:076AB 11-23-1993 09:43:08 # 839 *
* Interface: 1 Cycle#: 5 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.465	TCX	2.0209	15.5982%	68931	38461	1.8	2	1	0	2.9318E-05
• 5	5.040	AR1221-1	0.5086	3.9252%	5086	2549	2.0	2			1.0000E-04
• 6	5.100	AR1221-2	0.8227	6.3496%	8227	4241	1.9	2			1.0000E-04
9	5.365		0.5283	4.0778%	5283	3035	1.7	2			1.0000E-04
• 10	5.465	AR1221-3	2.0467	15.7974%	20467	9639	2.1	1			1.0000E-04
17	6.975		0.3605	2.7823%	3605	1789	2.0	1			1.0000E-04
40	12.450		1.9669	15.1816%	19669	6099	3.2	2			1.0000E-04
44	14.460	DCB	4.7014	36.2877%	47621	25502	1.9	1	1	-.1119	9.8726E-05

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TOTAL AMOUNT = 12.9560

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:55:33 Version 5.1 **********

* Sample Name: AR122101,I; Data File: 0:076B5 *
* Date: 11-22-1993 19:04:41 Method: 0:076BB 11-23-1993 09:47:42 # 874 *
* Interface: 2 Cycle#: 5 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.555		0.6588	2.1242%	6588	3752	1.8	2			1.0000E-04
5	5.025	TCX	0.0168	0.0541%	123734	68605	1.8	1	5	0	1.3549E-07
7	5.205	AR1221-1	3.7393	12.0574%	37393	10342	3.6	2			1.0000E-04
8	5.335		1.6029	5.1685%	16029	7076	2.3	2			1.0000E-04
12	5.800		0.4261	1.3740%	4261	2177	2.0	2			1.0000E-04
13	5.945		1.1998	3.8686%	11998	5307	2.3	2			1.0000E-04
14	6.005	AR1221-2	3.7479	12.0850%	37479	13861	2.7	2			1.0000E-04
15	6.250		0.8256	2.6621%	8256	4942	1.7	1			1.0000E-04
16	6.370	AR1221-23	2.6916	8.6792%	26916	16241	1.7	1			1.0000E-04
17	6.485	alpha-BHC	0.0003	0.0009%	3841	2374	1.6	1	5	.5985	7.3122E-08
18	6.655		0.6603	2.1292%	6603	3264	2.0	1			1.0000E-04
19	6.860		4.0495	13.0575%	40495	5687	7.1	2			1.0000E-04
20	7.000		1.7388	5.6067%	17388	3386	5.1	2			1.0000E-04
21	7.150		0.5660	1.8249%	5660	2702	2.1	2			1.0000E-04
22	7.190	gamma-BHC	0.0006	0.0019%	6545	2641	2.5	2	5	-.2382	9.1880E-08
29	7.890		0.6789	2.1890%	6789	2629	2.6	1			1.0000E-04
33	8.600		1.2055	3.8873%	12056	3066	3.9	1			1.0000E-04
44	10.725	Dieldrin	0.0008	0.0026%	8155	1694	4.8	2	5	.3214	9.9731E-08
45	10.895		1.4251	4.5953%	14251	1479	9.6	2			1.0000E-04
46	11.045		0.5074	1.6363%	5074	1174	4.3	2			1.0000E-04
47	11.105		0.4474	1.4426%	4474	2027	2.2	2			1.0000E-04
55	12.640		4.8147	15.5251%	48147	13430	3.6	1			1.0000E-04
62	15.980	DCB	0.0085	0.0274%	81461	34349	2.4	1	5	0	1.0420E-07

TOTAL AMOUNT = 31.0124

11-24-93
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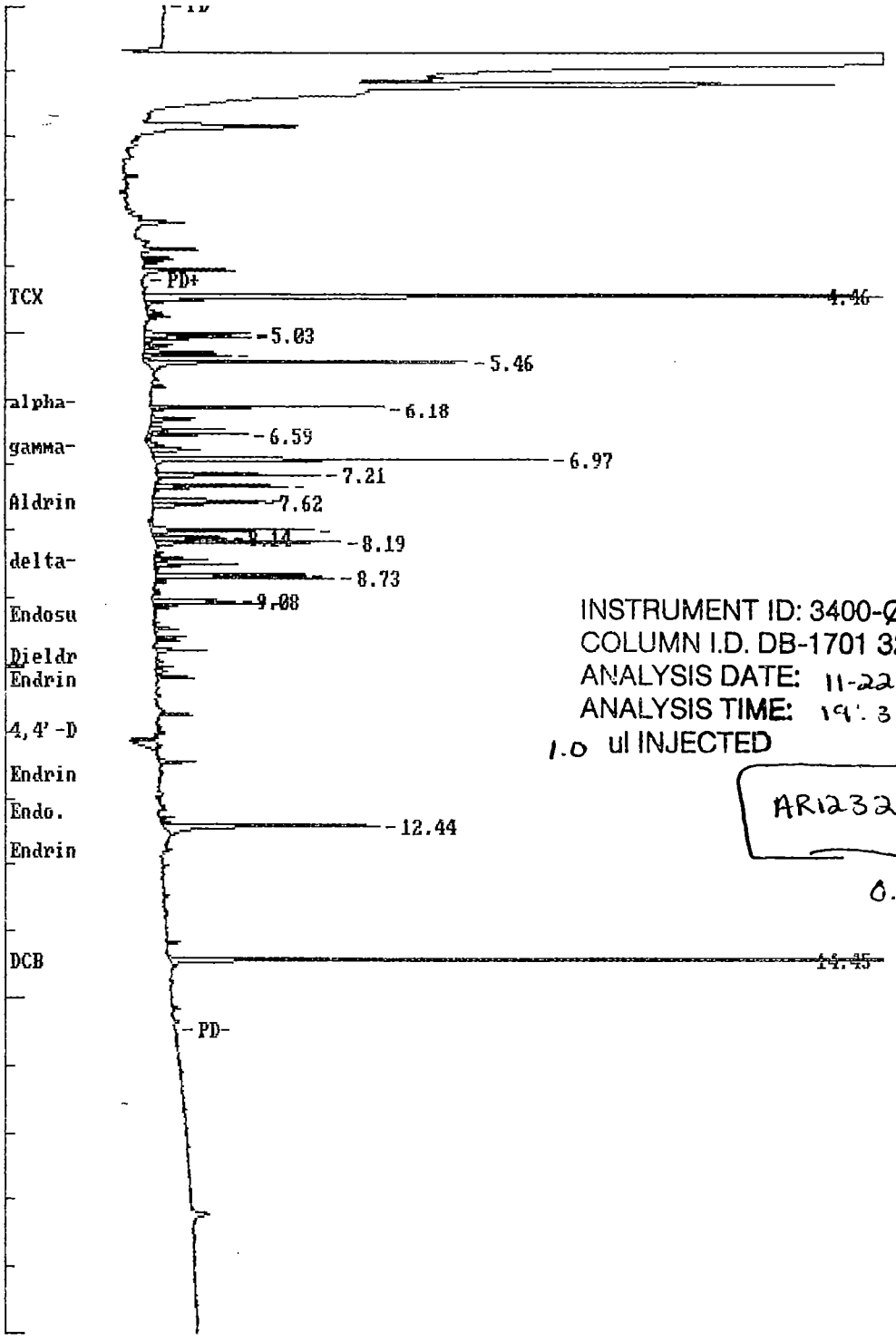
Areas, times, and heights stored in: O:076A6.ATB
Data File = O:076A6.PTS Printed on 11-23-1993 at 09:44:43
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 20 millivolts



INSTRUMENT ID: 3400-Ø A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 19:31:57
1.0 ul INJECTED

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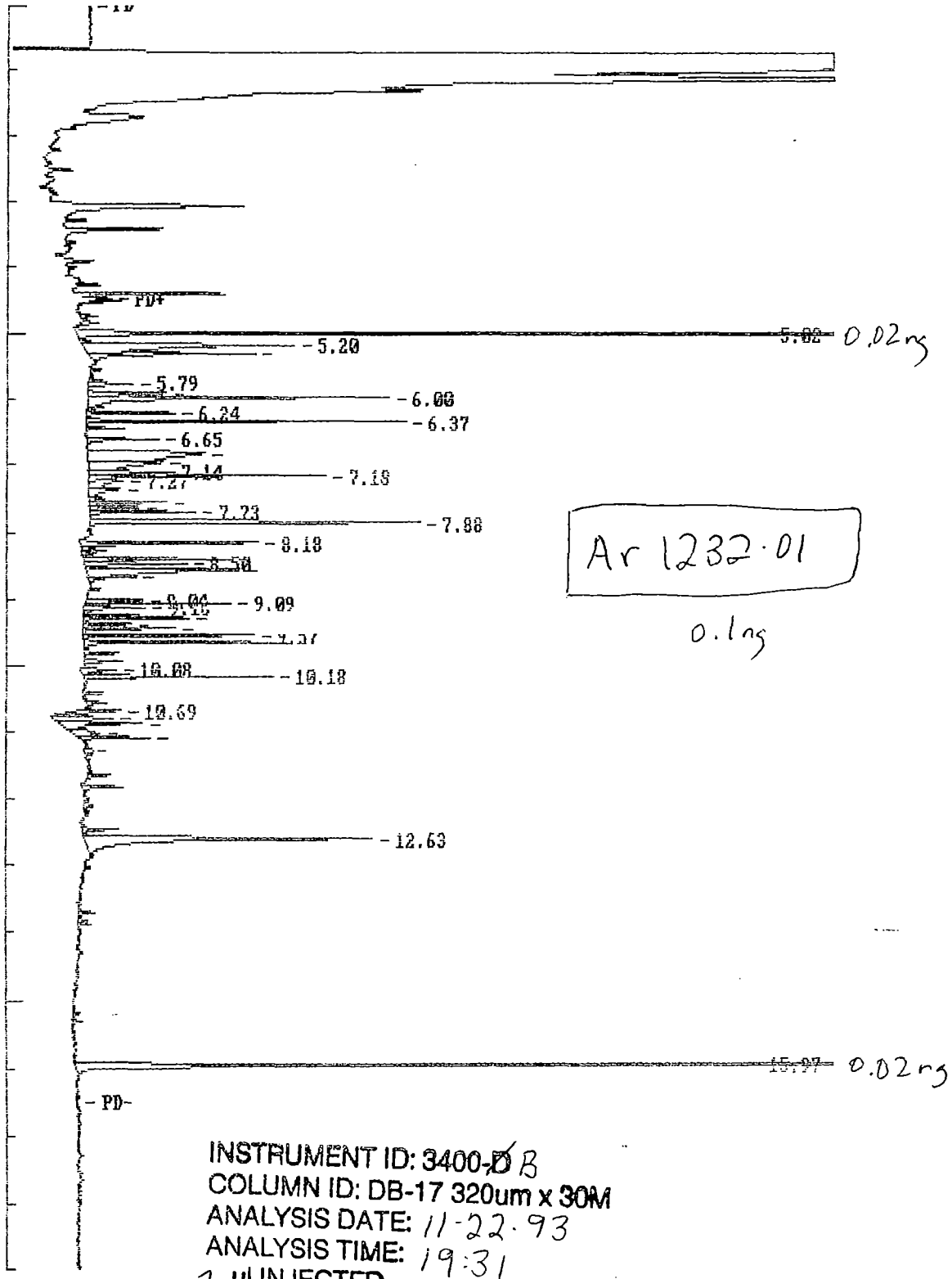
Areas, times, and heights stored in: 0:076B6.ATB
Data File = 0:076B6.PTS Printed on 11-23-1993 at 09:57:40
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 35 millivolts



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INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 19:31
1 ul INJECTED

11-24-93
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EXTERNAL STANDARD TABLE

********** 11-23-1993 09:44:30 Version 5.1 **********

* Sample Name: AR123201,I; Data File: 0:076A6 *
* Date: 11-22-1993 19:31:57 Method: 0:076AB 11-23-1993 09:43:08 # 839 *
* Interface: 1 Cycle#: 6 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.460	TCX	2.0634	9.1790%	70380	38686	1.8	2	1	0	2.9318E-05
5	5.030		0.5114	2.2748%	5114	2600	2.0	2			1.0000E-04
6	5.090		0.5447	2.4230%	5447	2626	2.1	2			1.0000E-04
9	5.360		0.3915	1.7415%	3915	2160	1.8	2			1.0000E-04
• 10	5.455	AR1232-1	1.6723	7.4392%	16723	8005	2.1	1			1.0000E-04
• 12	6.175	AR1232-2	0.8937	3.9757%	8937	5696	1.6	1			1.0000E-04
15	6.590		0.4605	2.0485%	4605	2476	1.9	2			1.0000E-04
• 18	6.965	AR1232-3	1.9975	8.8858%	19975	9769	2.0	1			1.0000E-04
19	7.205		0.8300	3.6925%	8300	4074	2.0	1			1.0000E-04
20	7.370		0.5464	2.4306%	5464	3311	1.7	2			1.0000E-04
22	7.585	Aldrin	0.3352	1.4913%	4597	2778	1.7	2	1	0	7.2922E-05
23	7.620		0.7727	3.4373%	7727	2597	3.0	2			1.0000E-04
24	8.015		0.9710	4.3195%	9710	4045	2.4	2			1.0000E-04
25	8.135		0.3570	1.5881%	3570	1780	2.0	2			1.0000E-04
26	8.190		1.0394	4.6238%	10394	4600	2.3	2			1.0000E-04
30	8.690		0.6544	2.9112%	6544	3743	1.7	2			1.0000E-04
31	8.730		0.7689	3.4203%	7689	4460	1.7	3			1.0000E-04
34	9.075		0.4648	2.0679%	4648	2045	2.3	2			1.0000E-04
35	9.115		0.5034	2.2392%	5034	2750	1.8	2			1.0000E-04
52	12.440		1.5268	6.7920%	15268	5339	2.9	1			1.0000E-04
54	14.450	DCB	5.1745	23.0190%	52413	29334	1.8	1	1	0	9.8726E-05

11-29-93

TOTAL AMOUNT = 22.4794

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:56:59 Version 5.1 **********

* Sample Name: AR123201,I; Data File: 0:076B6 *
* Date: 11-22-1993 19:31:58 Method: 0:076BB 11-23-1993 09:47:42 # 874 *
* Interface: 2 Cycle#: 6 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	5.015	TCX	0.0171	0.0366%	126464	69391	1.8	1	4	0	1.3549E-07
6	5.195		3.3045	7.0526%	33045	8999	3.7	2			1.0000E-04
7	5.330		1.6261	3.4705%	16261	7043	2.3	2			1.0000E-04
10	5.790		0.3554	0.7585%	3554	1913	1.9	2			1.0000E-04
11	5.940		0.7710	1.6456%	7710	3335	2.3	2			1.0000E-04
12	5.995		3.7813	8.0704%	37813	12865	2.9	3			1.0000E-04
14	6.240		0.6759	1.4425%	6759	3744	1.8	2			1.0000E-04
15	6.365		2.2449	4.7914%	22449	13548	1.6	2			1.0000E-04
17	6.645		0.5779	1.2334%	5779	3022	1.9	1			1.0000E-04
18	6.855		3.6542	7.7990%	36542	4961	7.4	2			1.0000E-04
19	6.995		1.7455	3.7255%	17455	3156	5.5	2			1.0000E-04
20	7.140		0.6173	1.3174%	6173	2960	2.1	2			1.0000E-04
21	7.180	~~gamma-BHC~~ AR1232-1	0.0020	0.0043%	21717	10105	2.1	3	4	-.1763	9.1880E-08
22	7.270		0.5776	1.2328%	5776	1384	4.2	4			1.0000E-04
23	7.390	beta-BHC	0.0016	0.0035%	5848	1363	4.3	2	4	.2353	2.7691E-07
25	7.585		0.6101	1.3022%	6101	3295	1.9	2			1.0000E-04
26	7.660		0.4230	0.9028%	4230	2105	2.0	2			1.0000E-04
27	7.730		0.9270	1.9785%	9270	4464	2.1	2			1.0000E-04
28	7.880	AR1232-2	3.6973	7.8910%	36973	14080	2.6	2			1.0000E-04
29	8.180	AR1232-3	1.3457	2.8722%	13457	7354	1.8	2			1.0000E-04
33	8.425		1.0709	2.2856%	10709	6277	1.7	2			1.0000E-04
34	8.495		0.7395	1.5783%	7395	4316	1.7	2			1.0000E-04
35	8.580		2.4352	5.1975%	24352	6512	3.7	2			1.0000E-04
36	8.695		0.4857	1.0367%	4857	2026	2.4	2			1.0000E-04
38	9.040		0.4176	0.8913%	4176	2419	1.7	2			1.0000E-04
39	9.085		1.0582	2.2585%	10582	6179	1.7	2	11-24-93		1.0000E-04
40	9.155		0.4462	0.9524%	4462	2608	1.7	2	BMG		1.0000E-04
42	9.265		0.4245	0.9061%	4245	2337	1.8	2			1.0000E-04
43	9.310		0.8125	1.7341%	8125	4457	1.8	2			1.0000E-04
44	9.400		0.3604	0.7692%	3604	2014	1.8	2			1.0000E-04
45	9.460	Hept. epoxide	0.0008	0.0016%	7165	3890	1.8	2	4	-.1114	1.0548E-07
46	9.565		1.2620	2.6935%	12620	7237	1.7	2			1.0000E-04
47	9.675		1.6349	3.4892%	16349	8755	1.9	2			1.0000E-04
50	10.080	a. Chlordane	0.0002	0.0007%	3545	1466	2.4	2	4	0	9.1302E-08
51	10.180		1.3719	2.9281%	13719	7990	1.7	2			1.0000E-04
54	10.690	Dieldrin	0.0007	0.0015%	7144	2017	3.5	1	4	.1934	9.9721E-08
55	10.805		0.6594	1.4074%	6594	2468	2.7	2			1.0000E-04
56	10.880		1.0715	2.2869%	10715	3412	3.1	2			1.0000E-04
57	11.030		0.4355	0.9296%	4355	1039	4.2	2			1.0000E-04

1691

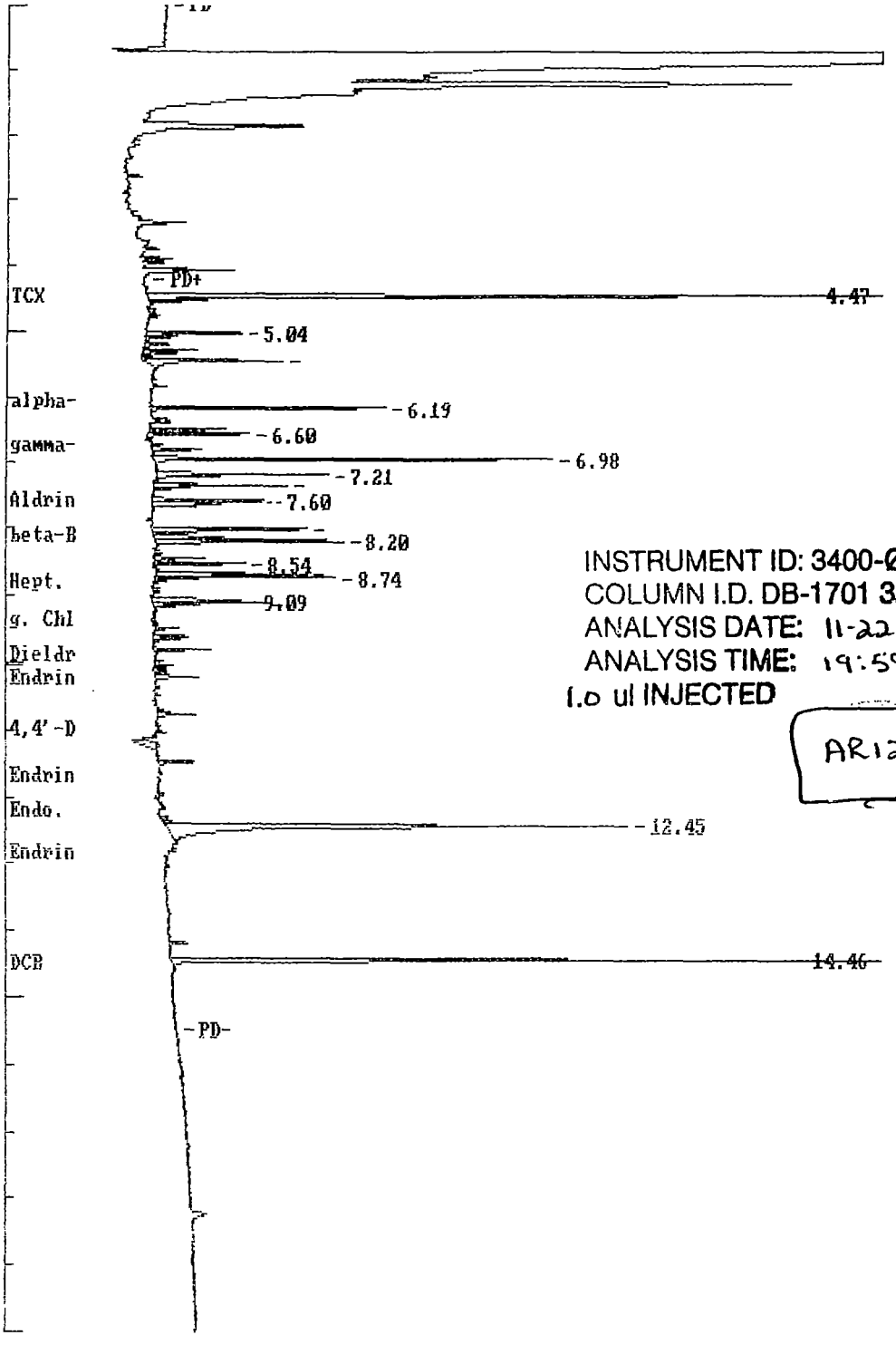
0.0094 0.0201% 90452 37442 2.4 1 4

15.970 DCB

TOTAL AMOUNT = 46.8541

076B6
P92
11.24.93
BMG

Areas, times, and heights stored in: O:076A7.ATB
Data File = O:076A7.PTS Printed on 11-23-1993 at 09:46:15
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 20 millivolts



INSTRUMENT ID: 3400-Ø A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 19:59:07
1.0 ul INJECTED

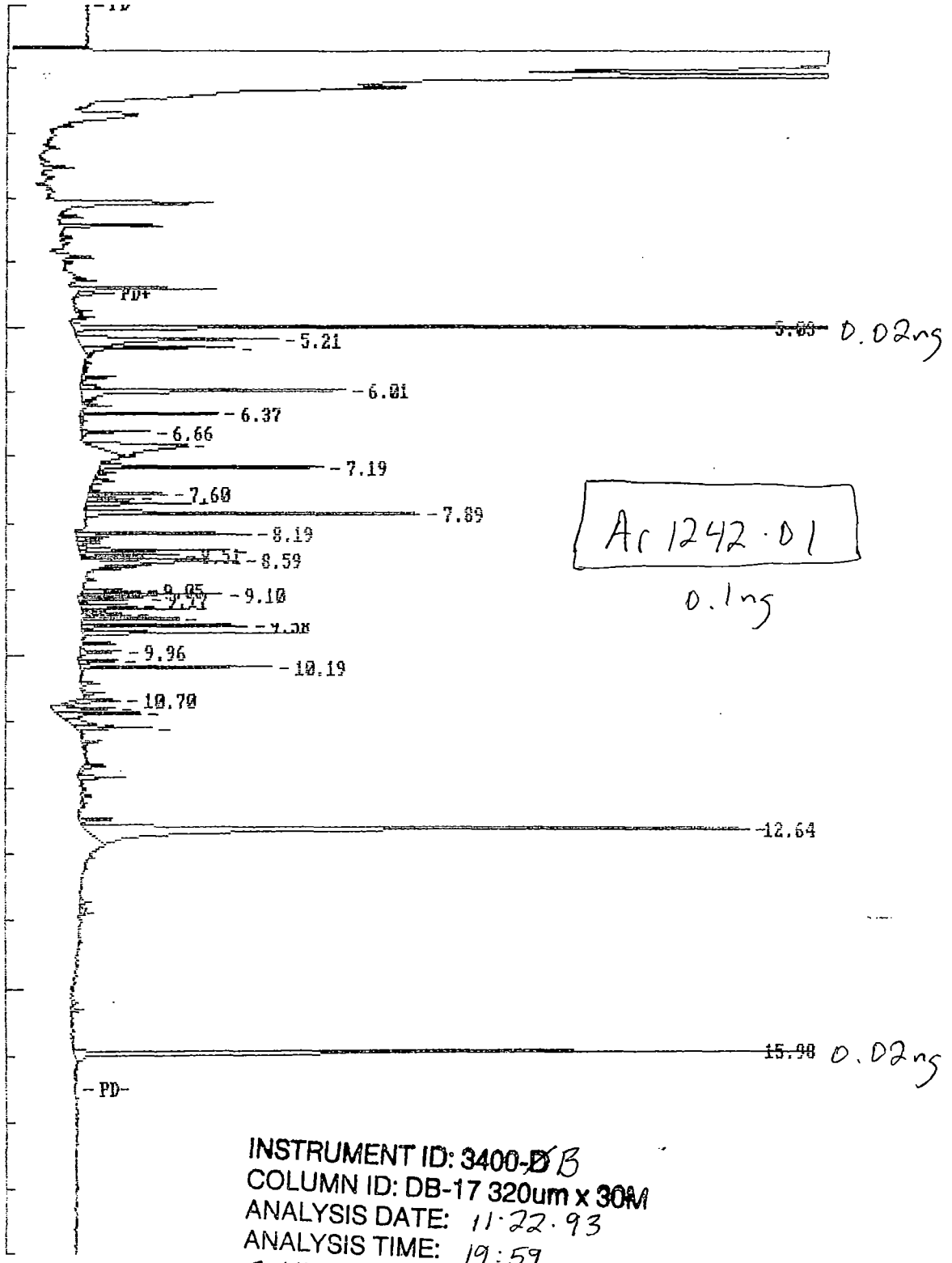
AR124201

0.1 ng

11-23-93

1693

Areas, times, and heights stored in: 0:076B7.ATB
Data File = 0:076B7.PTS Printed on 11-23-1993 at 09:59:30
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 35 millivolts



Ac 1242 · 01

0.1ng

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11·22·93
ANALYSIS TIME: 19:59
1 ul INJECTED

1694

11·24·93 BMG

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:46:04 Version 5.1 **********

* Sample Name: AR124201,I; Data File: 0:076A7 *
* Date: 11-22-1993 19:59:07 Method: 0:076AB 11-23-1993 09:43:08 # 839 *
* Interface: 1 Cycle#: 7 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.465	TCX	1.8311	8.3715%	62456	34763	1.8	2	1	0	2.9318E-05
5	5.040		0.4595	2.1007%	4595	2344	2.0	2			1.0000E-04
10	5.465		0.6915	3.1614%	6915	3364	2.1	1			1.0000E-04
• 12	6.185	AR1242-1	0.9622	4.3990%	9622	5855	1.6	1			1.0000E-04
15	6.600		0.4698	2.1477%	4698	2508	1.9	2			1.0000E-04
• 18	6.975	AR1242-2	2.0355	9.3061%	20355	9955	2.0	1			1.0000E-04
• 19	7.210	AR1242-3	0.8475	3.8747%	8475	4274	2.0	1			1.0000E-04
• 20	7.380	AR1242-4	0.5478	2.5043%	5478	3325	1.6	2			1.0000E-04
22	7.595	Aldrin	0.3389	1.5494%	4647	2769	1.7	2	1	0	7.2922E-05
23	7.625		0.8067	3.6883%	8067	2671	3.0	2			1.0000E-04
24	8.025		0.9050	4.1377%	9050	3832	2.4	2			1.0000E-04
• 26	8.200	AR1242-5	1.0566	4.8306%	10566	4663	2.3	2			1.0000E-04
29	8.540		0.3759	1.7184%	3759	2255	1.7	2			1.0000E-04
30	8.695		0.6110	2.7933%	6110	3765	1.6	2			1.0000E-04
31	8.740		0.8257	3.7749%	8257	4487	1.8	2			1.0000E-04
34	9.085		0.4972	2.2730%	4972	2193	2.3	2			1.0000E-04
35	9.120		0.5084	2.3242%	5084	2765	1.8	2			1.0000E-04
55	12.450		3.7846	17.3030%	37846	11484	3.3	2			1.0000E-04
57	14.460	DCB	4.3180	19.7415%	43737	24228	1.8	1	1	-.1119	9.8726E-05

TOTAL AMOUNT = 21.8727

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:58:57 Version 5.1 **********

* Sample Name: AR124201,I; Data File: 0:076B7 *
* Date: 11-22-1993 19:59:08 Method: 0:076BB 11-23-1993 09:47:42 # 874 *
* Interface: 2 Cycle#: 7 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

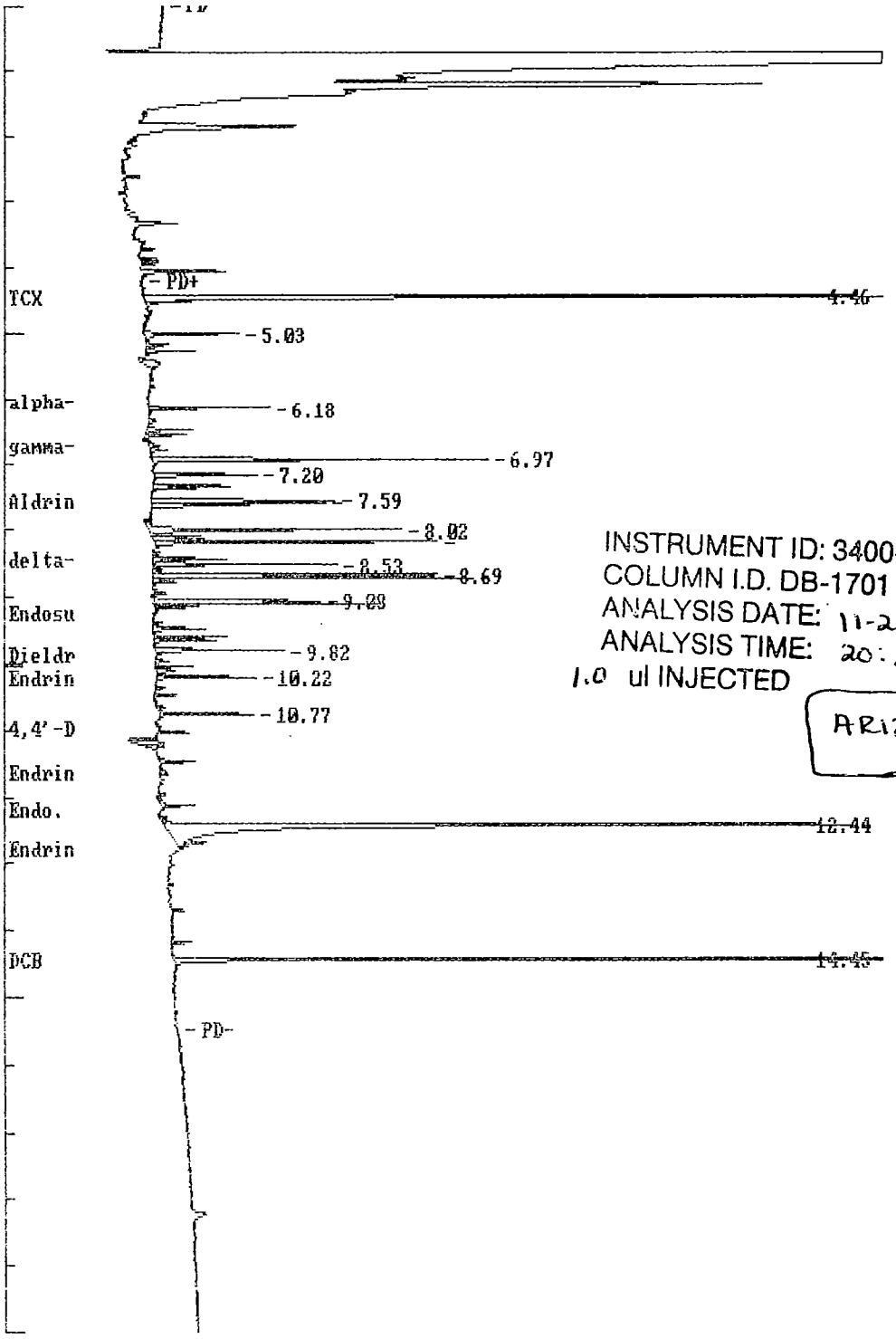
****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	5.025	TCX	0.0154	0.0362%	113611	63248	1.8	1	4	0	1.3549E-07
5	5.205		3.0623	7.1922%	30623	8594	3.6	2			1.0000E-04
6	5.340		1.5264	3.5850%	15264	6417	2.4	2			1.0000E-04
11	6.005		3.2798	7.7030%	32798	11364	2.9	3			1.0000E-04
14	6.370		0.9480	2.2266%	9480	5845	1.6	1			1.0000E-04
16	6.655		0.5702	1.3392%	5702	2894	2.0	1			1.0000E-04
17	6.870		2.3959	5.6271%	23959	3864	6.2	1			1.0000E-04
18	7.190	~~gamma-BHC~~ AR1242-1	0.0017	0.0040%	18534	9620	1.9	2	4	-.2382	9.1880E-08
22	7.595		0.5474	1.2857%	5474	3324	1.6	2			1.0000E-04
23	7.665		0.3719	0.8735%	3719	2026	1.8	2			1.0000E-04
24	7.740		0.9133	2.1451%	9133	4479	2.0	2			1.0000E-04
25	7.890	AR1242-2	3.7833	8.8857%	37833	14365	2.6	1			1.0000E-04
26	8.190	AR1242-~~1~~3	1.3560	3.1847%	13560	7489	1.8	2			1.0000E-04
30	8.425	Aldrin	0.0009	0.0021%	10771	6392	1.7	2	4	.4363	8.1798E-08
31	8.505		0.7134	1.6756%	7134	4133	1.7	2			1.0000E-04
32	8.590		0.7696	1.8074%	7696	4634	1.7	1			1.0000E-04
35	9.050		0.4321	1.0149%	4321	2473	1.7	2			1.0000E-04
36	9.095		1.0464	2.4576%	10464	6073	1.7	2			1.0000E-04
37	9.165		0.4756	1.1170%	4756	2780	1.7	2			1.0000E-04
39	9.280		0.4194	0.9851%	4194	2421	1.7	2			1.0000E-04
40	9.320		0.7931	1.8627%	7931	4577	1.7	2			1.0000E-04
41	9.410		0.3613	0.8486%	3613	2126	1.7	2			1.0000E-04
42	9.475	Hept. epoxide	0.0008	0.0018%	7257	4135	1.8	2	4	-.1521	1.0548E-07
43	9.575		1.2252	2.8776%	12252	7091	1.7	1			1.0000E-04
44	9.685	AR1242-~~2~~4	1.5359	3.6072%	15359	8936	1.7	1			1.0000E-04
46	9.960		0.3922	0.9212%	3922	1723	2.3	1			1.0000E-04
47	10.095	a. Chlordane	0.0004	0.0008%	3877	1716	2.3	2	4	0	9.1302E-08
48	10.190	AR1242-~~3~~5	1.4630	3.4361%	14630	8219	1.8	2			1.0000E-04
51	10.700	Dieldrin	0.0007	0.0016%	6918	2092	3.3	1	4	0	9.9731E-08
52	10.815		0.6755	1.5865%	6755	2587	2.6	2	11-24-93		1.0000E-04
53	10.895		1.0431	2.4499%	10431	3448	3.0	2	BMG		1.0000E-04
54	11.040		0.4634	1.0884%	4634	1114	4.2	2			1.0000E-04
55	11.105		0.6687	1.5705%	6687	3221	2.1	2	11-29-93		1.0000E-04
62	12.640		11.3176	26.5811%	113176	28419	4.0	1	BMG		1.0000E-04
70	15.980	DCB	0.0079	0.0185%	75484	31668	2.4	1	4	0	1.0420E-07

TOTAL AMOUNT = 42.5775

Areas, times, and heights stored in: 0:076A8.ATB
Data File = 0:076A8.PTS Printed on 11-23-1993 at 09:47:47
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 20 millivolts



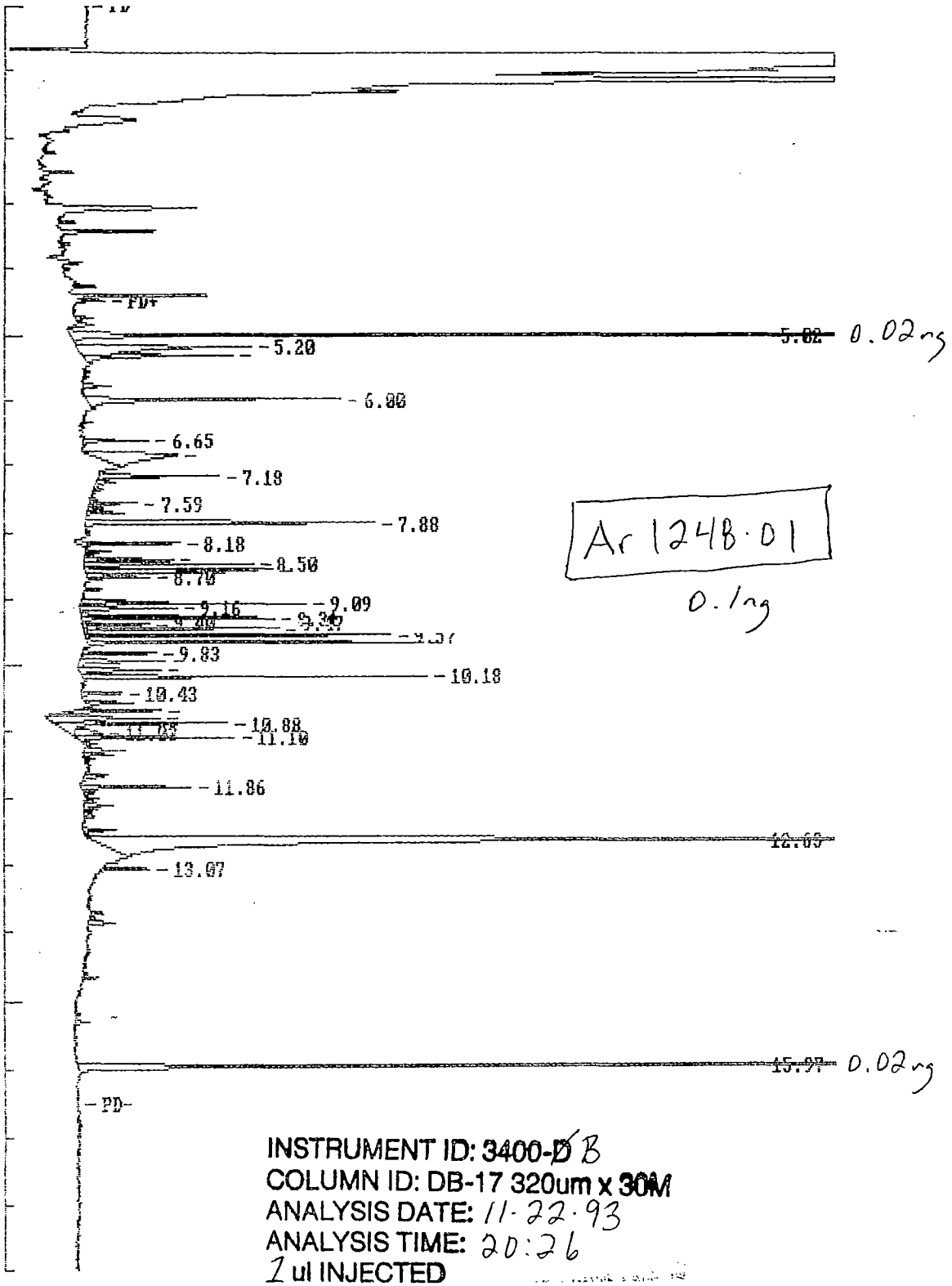
INSTRUMENT ID: 3400-Ø A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 20:26:20
1.0 ul INJECTED

AR12480 1

0.1 ng

11-23-93 DJS

Areas, times, and heights stored in: 0:076B8.ATB
Data File = 0:076B8.PTS Printed on 11-23-1993 at 10:01:17
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 35 millivolts



INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 20:26
1 ul INJECTED

11-24-93 BMG

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:47:37 Version 5.1 **********

* Sample Name: AR124801,I; Data File: D:076A8 *
* Date: 11-22-1993 20:26:20 Method: D:076AB 11-23-1993 09:43:08 # 839 *
* Interface: 1 Cycle#: 8 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.460	TCX	2.0318	7.2865%	69303	38099	1.8	2	1	0	2.9318E-05
4	5.030		0.4500	1.6137%	4500	2298	2.0	1			1.0000E-04
8	6.175		0.4843	1.7367%	4843	2981	1.6	1			1.0000E-04
14	6.965		1.6855	6.0445%	16855	8331	2.0	1			1.0000E-04
15	7.200		0.5330	1.9114%	5330	2556	2.1	1			1.0000E-04
18	7.585	~~Aldrin~~ AR1248-1	0.5475	1.9634%	7508	4543	1.7	2	1	0	7.2922E-05
19	7.620		1.3152	4.7166%	13152	4311	3.1	2			1.0000E-04
20	8.015	AR1248-2	1.4602	5.2367%	14602	6258	2.3	2			1.0000E-04
22	8.190		1.4507	5.2026%	14507	7017	2.1	2			1.0000E-04
24	8.530		0.7556	2.7096%	7556	4559	1.7	2			1.0000E-04
26	8.685		1.2459	4.4680%	12459	7035	1.8	2			1.0000E-04
27	8.730	AR1248-3	1.3946	5.0015%	13946	7937	1.8	3			1.0000E-04
30	9.075		0.8845	3.1720%	8845	4146	2.1	2			1.0000E-04
31	9.110		1.0331	3.7050%	10331	5197	2.0	2			1.0000E-04
37	9.815	Dieldrin	0.6788	2.4344%	5253	3172	1.7	1	1	-.4563	1.2923E-04
41	10.220	Endrin	0.4363	1.5648%	4316	2452	1.8	2	1	.1960	1.0109E-04
45	10.770		0.3980	1.4273%	3980	2302	1.7	1			1.0000E-04
56	12.440		6.2523	22.4225%	62523	17040	3.7	3			4.0000E-04
62	14.450	DCB	4.8471	17.3830%	49097	26757	1.8	1	1	0	9.8726E-05

11-29-93 DJB

TOTAL AMOUNT = 27.8843

EXTERNAL STANDARD TABLE

********** 11-23-1993 10:00:43 Version 5.1 **********

* Sample Name: AR124801,I; Data File: 0:076BB *
* Date: 11-22-1993 20:26:22 Method: 0:076BB 11-23-1993 09:47:42 # 874 *
* Interface: 2 Cycle#: 8 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

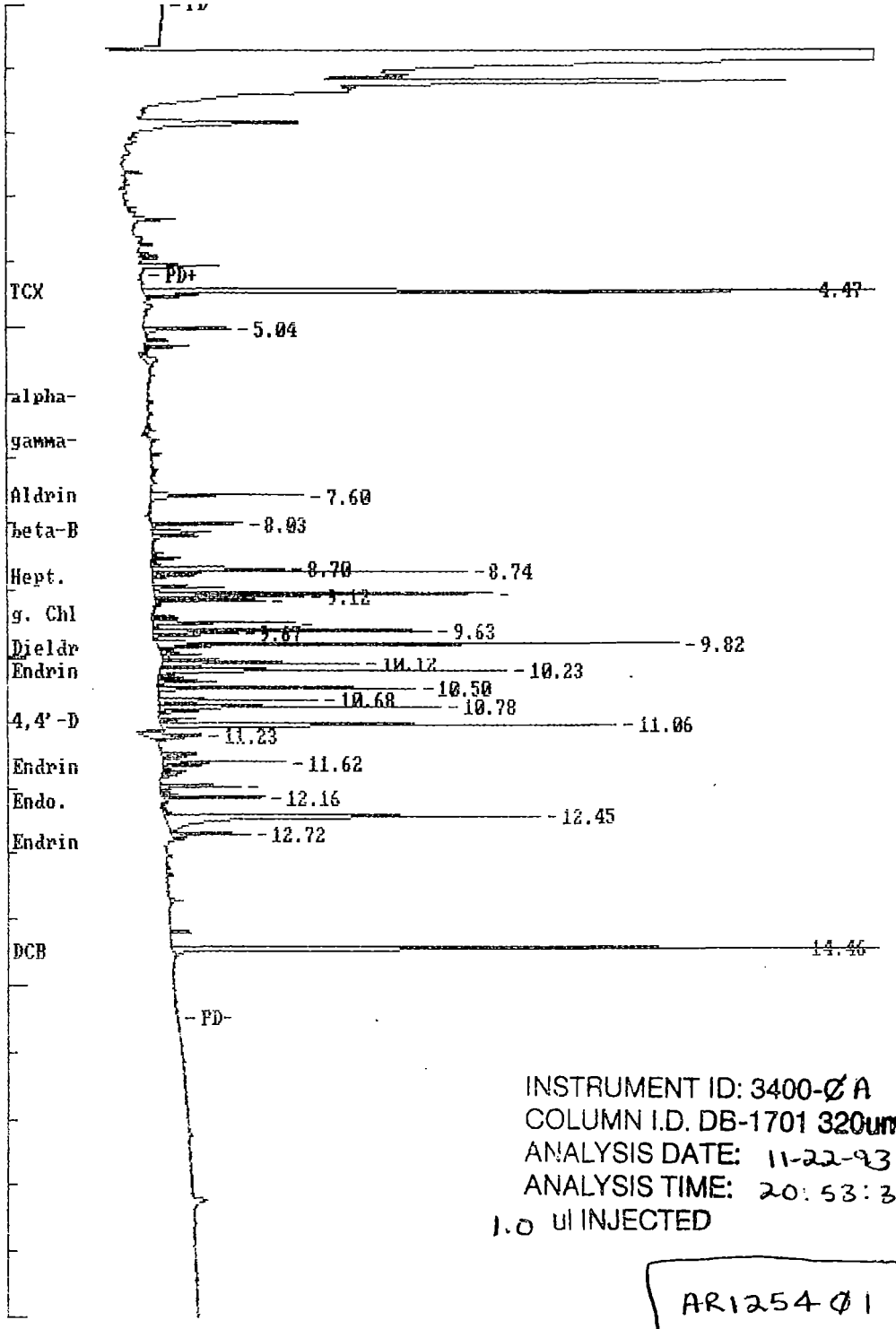
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	5.015	TCX	0.0171	0.0296%	125873	68871	1.8	1	4	0	1.3549E-07
5	5.195		2.7294	4.7341%	27294	7324	3.7	2			1.0000E-04
6	5.330		1.4038	2.4348%	14038	6262	2.2	2			1.0000E-04
10	5.995		2.7565	4.7810%	27565	10786	2.6	1			1.0000E-04
12	6.645		0.5029	0.8722%	5029	2702	1.9	1			1.0000E-04
13	6.860		2.3111	4.0085%	23111	3472	6.7	1			1.0000E-04
14	7.180	gamma-BHC	0.0009	0.0016%	10090	5083	2.0	2	4	-.1783	9.1880E-08
18	7.585		0.3548	0.6153%	3548	2016	1.8	2			1.0000E-04
21	7.880	AR248-1	3.2166	5.5791%	32166	12279	2.6	1			1.0000E-04
22	8.180		0.7034	1.2201%	7034	4155	1.7	1			1.0000E-04
25	8.425		0.6295	1.0919%	6295	3724	1.7	2			1.0000E-04
26	8.495		1.1860	2.0571%	11860	7161	1.7	2			1.0000E-04
27	8.580		1.6714	2.8989%	16714	7956	2.1	2			1.0000E-04
28	8.620		1.2758	2.2128%	12758	5122	2.5	2			1.0000E-04
29	8.695		0.4727	0.8199%	4727	2613	1.8	2			1.0000E-04
32	9.085	AR1248-2	1.6549	2.8704%	16549	9590	1.7	2			1.0000E-04
33	9.155		0.6748	1.1704%	6748	4072	1.7	2			1.0000E-04
34	9.270		0.7613	1.3205%	7613	4032	1.9	2			1.0000E-04
35	9.310		1.4097	2.4451%	14097	8126	1.7	2			1.0000E-04
36	9.400		0.4789	0.8307%	4789	2812	1.7	2			1.0000E-04
37	9.465	Hept. epoxide	0.0015	0.0026%	14359	8276	1.7	2	4	0	1.0548E-07
38	9.565		2.2234	3.8564%	22234	12995	1.7	2			1.0000E-04
39	9.675		2.4643	4.2741%	24643	14256	1.7	1			1.0000E-04
40	9.830		0.5506	0.9550%	5506	3076	1.8	2			1.0000E-04
41	9.950		0.8512	1.4764%	8512	3620	2.4	2			1.0000E-04
42	10.080	a. Chlordane	0.0006	0.0011%	6989	3430	2.0	2	4	0	9.1302E-08
43	10.180	AR1248-3	2.5123	4.3575%	25123	14584	1.7	2			1.0000E-04
44	10.425		0.3918	0.6795%	3918	1690	2.3	1			1.0000E-04
46	10.690	Dieldrin	0.0010	0.0018%	10373	3752	2.8	1	4	.1934	9.9731E-08
47	10.805		1.1030	1.9131%	11030	4661	2.4	2			1.0000E-04
48	10.880		1.9852	3.4433%	19852	7198	2.9	3			1.0000E-04
49	11.030		0.4838	0.8391%	4838	1164	4.2	4			1.0000E-04
50	11.100		1.2998	2.2545%	12998	6593	2.0	2			1.0000E-04
56	11.855		0.8144	1.4126%	8144	4605	1.8	2			1.0000E-04
64	12.630		18.3922	31.9004%	183922	44777	4.1	1			1.0000E-04
65	13.070		0.3593	0.6232%	3593	2008	1.8	1			1.0000E-04
72	15.970	DCB	0.0088	0.0152%	84239	34791	2.4	1	4	0	1.0420E-07

11.24.93
BHG

1720

TOTAL AMOUNT = 57.6552

Areas, times, and heights stored in: O:076A9.ATB
Data File = O:076A9.PTS Printed on 11-23-1993 at 09:49:29
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 20 millivolts



INSTRUMENT ID: 3400-Ø A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 20:53:32
1.0 ul INJECTED

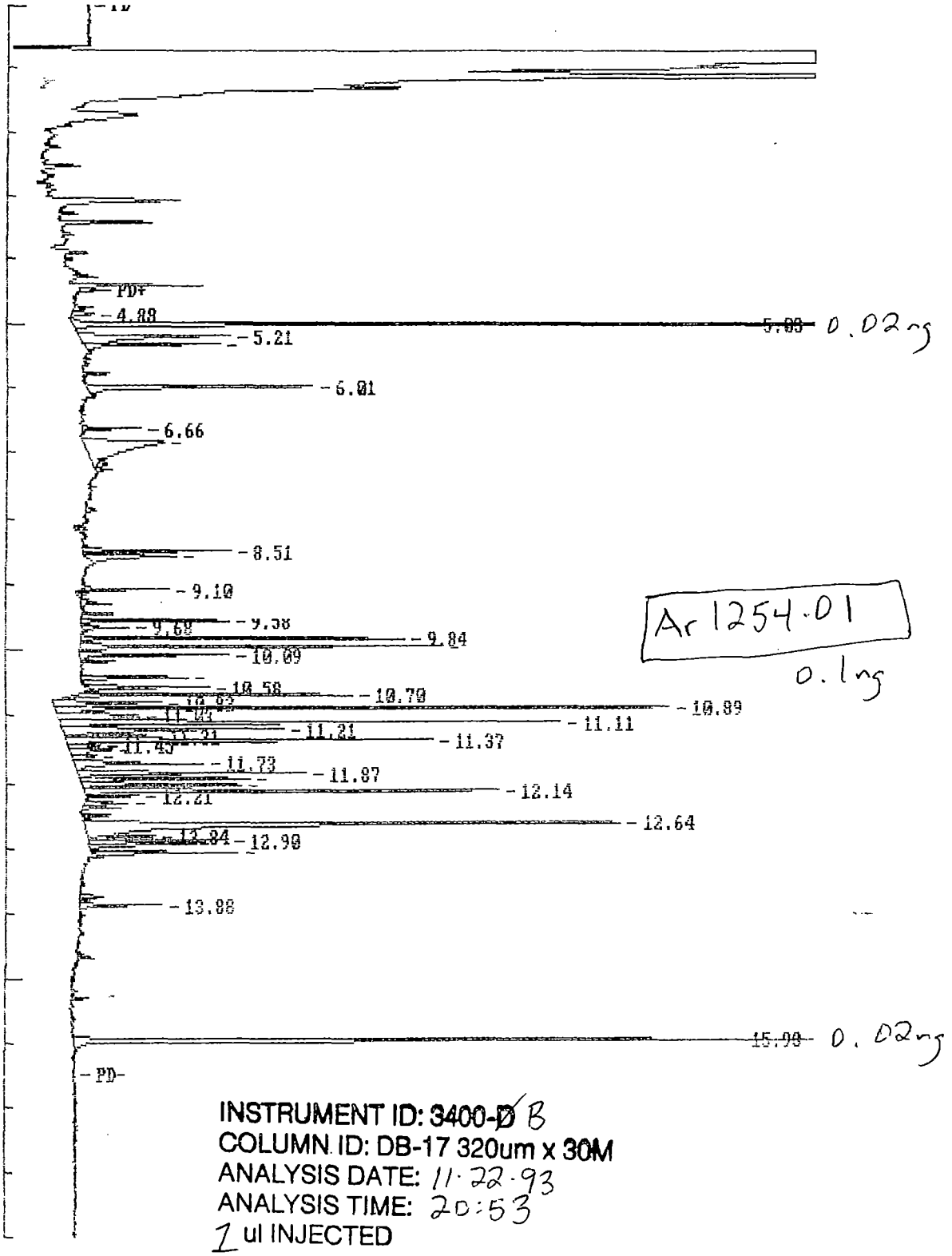
AR125401

0.1 ng

11-23-93 DJB

1701

Areas, times, and heights stored in: 0:076B9.ATB
Data File = 0:076B9.PTS Printed on 11-23-1993 at 10:03:12
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 35 millivolts



Ar 1254-01
0.1ng

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 20:53
1 ul INJECTED

11-24-93
BMG

1702

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:49:10 Version 5.1 **********

* Sample Name: AR125401,I; Data File: Q:076A9 *
* Date: 11-22-1993 20:53:32 Method: Q:076AB 11-23-1993 09:43:08 # 839 *
* Interface: 1 Cycle#: 9 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.465	TCX	2.0387	6.6205%	69538	37725	1.8	2	1	0	2.9318E-05
3	5.040		0.4384	1.4235%	4384	2172	2.0	1			1.0000E-04
12	7.595	Aldrin	0.5875	1.9080%	8057	3865	2.1	1	1	0	7.2922E-05
13	8.025		0.3875	1.2582%	3875	2292	1.7	1			1.0000E-04
19	8.700		0.5714	1.8556%	5714	3350	1.7	2			1.0000E-04
20	8.735		1.3243	4.3004%	13243	7913	1.7	2			1.0000E-04
23	9.065		1.4780	4.7995%	14780	8509	1.7	2			1.0000E-04
24	9.115		0.6559	2.1299%	6559	3765	1.7	2			1.0000E-04
25	9.175		0.4482	1.4554%	4482	2751	1.6	2			1.0000E-04
27	9.505	a. Chlordane	0.5358	1.7400%	6766	3588	1.9	2	1	.1514	7.9185E-05
28	9.625		1.1425	3.7102%	11425	6960	1.6	2			1.0000E-04
29	9.670	4,4'-DDE	0.5883	1.9105%	5329	2124	2.5	2	1	-.0085	1.1040E-04
30	9.820	AR1254-1	2.2583	7.3337%	22583	13128	1.7	2			1.0000E-04
35	10.120		0.9785	3.1777%	9785	4975	2.0	2			1.0000E-04
36	10.230	~~Endrin~~ AR1254-2	1.5813	5.1352%	15642	8756	1.8	2	1	.1818	1.0109E-04
39	10.500		1.1113	3.6089%	11113	6479	1.7	1			1.0000E-04
40	10.680		0.7242	2.3517%	7242	4030	1.8	2			1.0000E-04
41	10.780		1.2674	4.1159%	12674	7073	1.8	2			1.0000E-04
44	11.060	AR1254-3	2.4200	7.8587%	24200	11436	2.1	2			1.0000E-04
45	11.225	4,4'-DDT	0.3850	1.2504%	4479	1372	3.3	2	1	-.3339	8.5967E-05
49	11.620	Endrin Aldehyde	0.4940	1.6043%	5327	3106	1.7	2	1	-.3692	9.2734E-05
53	11.990		0.3606	1.1710%	3606	2024	1.8	2			1.0000E-04
56	12.155	Endo. sulfate	0.4833	1.5695%	4331	2505	1.7	2	1	-.3170	1.1160E-04
58	12.450		3.1004	10.0684%	31004	9427	3.3	2			1.0000E-04
59	12.720		0.4063	1.3193%	4063	1987	2.0	2			1.0000E-04
64	14.460	DCB	5.0266	16.3235%	50915	28201	1.8	1	1	-.1119	9.8728E-05

11-29-93
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TOTAL AMOUNT = 30.7937

EXTERNAL STANDARD TABLE

********** 11-23-1993 10:02:33 Version 5.1 **********

* Sample Name: AR125401,I; Data File: 0:076B9 *
* Date: 11-22-1993 20:53:34 Method: 0:076BB 11-23-1993 09:47:42 # 874 *
* Interface: 2 Cycle#: 9 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	4.875		0.3878	0.6957%	3878	984	3.9	2			1.0000E-04
4	5.025	TCX	0.0172	0.0308%	126745	70758	1.8	1	4	0	1.3549E-07
5	5.205		2.3942	4.2953%	23942	5506	3.6	2			1.0000E-04
6	5.340		1.4111	2.5316%	14111	5925	2.4	2			1.0000E-04
8	6.005		2.5674	4.6061%	25674	9889	2.6	1			1.0000E-04
9	6.655		0.4974	0.8924%	4974	2568	1.9	1			1.0000E-04
10	6.875		3.5534	6.3750%	35534	3508	10.1	3			1.0000E-04
17	8.505		1.0888	1.9534%	10888	6465	1.7	1			1.0000E-04
18	8.595		1.1392	2.0439%	11393	3911	2.9	1			1.0000E-04
19	9.095		0.6455	1.1581%	6455	3861	1.7	1			1.0000E-04
23	9.575		1.1067	1.9855%	11067	6432	1.7	1			1.0000E-04
24	9.680		0.3624	0.6502%	3624	2055	1.8	1			1.0000E-04
25	9.835	g. Chlordane	0.0023	0.0042%	25292	14074	1.8	2	4	.4623	9.2400E-08
26	9.960		3.1040	5.5687%	31040	15823	2.0	2			1.0000E-04
27	10.085	a. Chlordane	0.0011	0.0020%	12268	6498	1.9	2	4	-.1490	9.1302E-08
29	10.435		0.9886	1.7737%	9887	4665	2.1	1			1.0000E-04
30	10.580	4,4'-DDE	0.0010	0.0017%	8709	5080	1.7	1	4	-.4757	1.1134E-07
31	10.695	Dieldrin	0.0025	0.0045%	24968	12114	2.1	1	4	0	9.9731E-08
32	10.815		0.9951	1.7853%	9951	4699	2.1	2			1.0000E-04
33	10.890	AR1254-1	5.5375	9.9347%	55375	26792	2.1	2			1.0000E-04
34	11.030		1.8074	3.2426%	18074	3555	5.1	2			1.0000E-04
35	11.105	AR1254-2	4.4049	7.9027%	44049	21862	2.0	2			1.0000E-04
36	11.210		2.8624	5.1354%	28624	9649	3.0	2			1.0000E-04
37	11.310		0.7844	1.4072%	7844	3544	2.2	2			1.0000E-04
38	11.370	Endrin	0.0038	0.0068%	31290	15971	2.0	2	4	.1647	1.2132E-07
39	11.450		0.3942	0.7073%	3942	1420	2.8	2			1.0000E-04
40	11.515		0.6286	1.1277%	6286	1868	3.4	2			1.0000E-04
41	11.610	4,4'-DDD	0.0005	0.0009%	3701	1077	3.4	2	4	-.2712	1.3477E-07
42	11.725	Endosulfan II	0.0015	0.0027%	14917	5615	2.7	2	4	.2853	9.9585E-08
43	11.865		1.7747	3.1840%	17747	9981	1.8	2			1.0000E-04
44	11.955		1.7258	3.0963%	17258	7410	2.3	2			1.0000E-04
45	12.045		1.6222	2.9103%	16222	6943	2.3	2			1.0000E-04
46	12.140	4,~~4'~~-DDT AR12543	0.0065	0.0116%	39699	18145	2.2	2	4	-.2638	1.6277E-07
47	12.205		0.4107	0.7368%	4107	2318	1.8	2			1.0000E-04
48	12.320	Endrin Aldehyde	0.0008	0.0014%	4461	1914	2.3	2	4	.2259	1.7436E-07
51	12.640		9.4386	16.9335%	94386	23390	4.0	3			1.0000E-04
52	12.835		0.5784	1.0377%	5784	2580	2.2	4			1.0000E-04
53	12.895		1.2548	2.2511%	12548	6072	2.1	2			1.0000E-04
54	12.950		1.1800	2.1170%	11800	4512	2.6	2			1.0000E-04

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63	15.880 Endrin Ketone	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
64	15.980 DCB	0.0093	0.0166%	88870	36221	2.5	1	4	0	1.0420E-07

TOTAL AMOUNT = 55.7393

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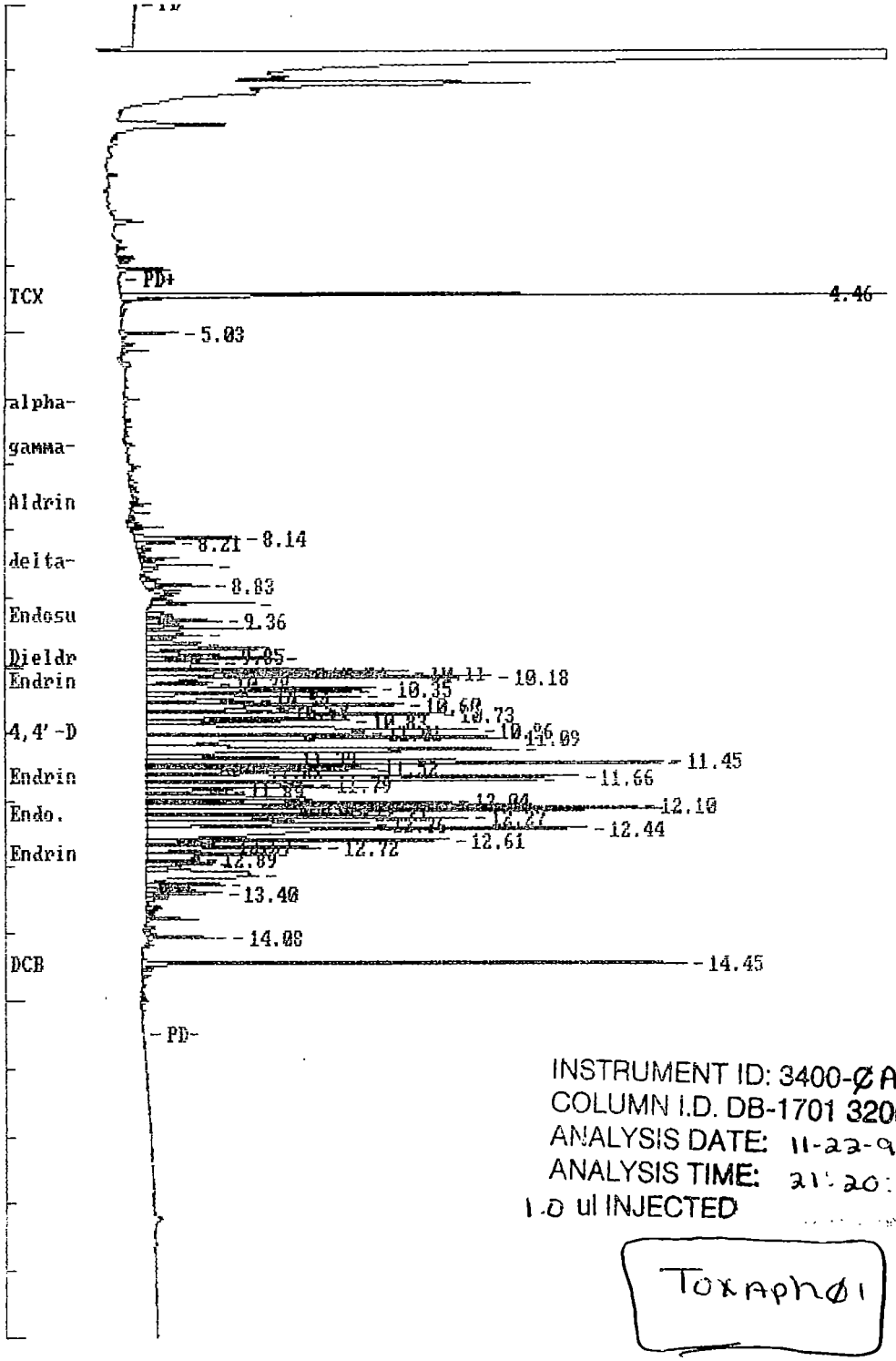
pg 2
11-24-93
BMG

Areas, times, and heights stored in: O:076A10.ATB
Data File = O:076A10.PTS Printed on 11-23-1993 at 09:41:19
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 30 millivolts



INSTRUMENT ID: 3400-ØA
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 21:20:47
1.0 ul INJECTED

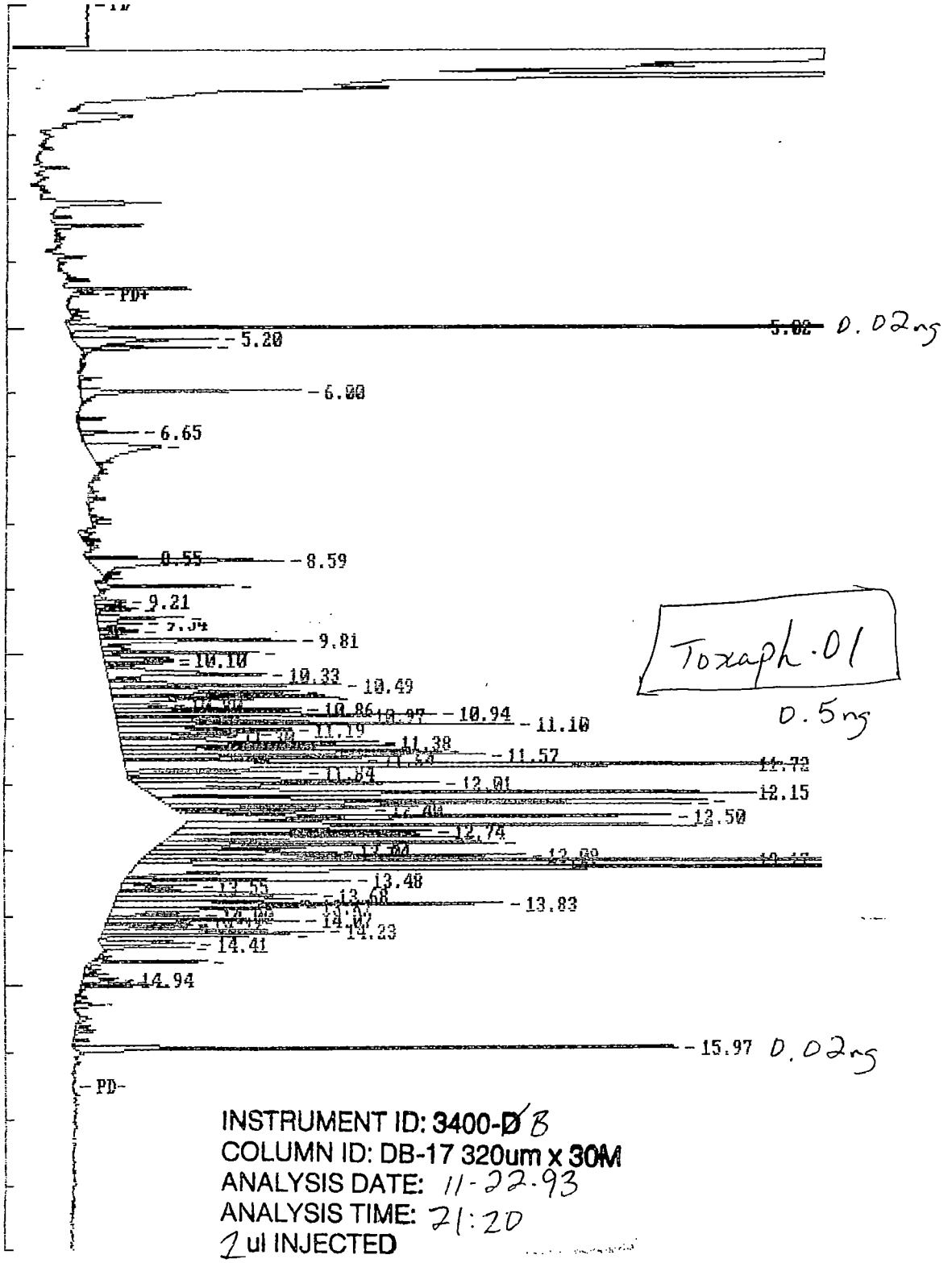
Toxaphø1

0.5 ng

11-23-93 Aff

1706

Areas, times, and heights stored in: 0:076B10.ATB
Data File = 0:076B10.PTS Printed on 11-23-1993 at 10:05:52
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 35 millivolts



INSTRUMENT ID: 3400-Ø B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-22-93
ANALYSIS TIME: 21:20
2 ul INJECTED

11-24-93
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1707

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:40:16 Version 5.1 **********

* Sample Name: TOXAPH01,I; Data File: 0:076A10 *
* Date: 11-22-1993 21:20:47 Method: 0:076AB 11-23-1993 09:38:14 # 838 *
* Interface: 1 Cycle#: 10 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.460	TCX	1.5603	1.2290%	53221	29836	1.8	2	1	0	2.9318E-05
4	5.030		0.3920	0.3088%	3920	2032	1.9	1			1.0000E-04
24	8.135		1.0127	0.7977%	10127	3901	2.6	2			1.0000E-04
25	8.205		0.4014	0.3162%	4014	1444	2.8	2			1.0000E-04
29	8.530		0.4387	0.3456%	4387	2618	1.7	2			1.0000E-04
32	8.830		0.5277	0.4157%	5277	2338	2.3	2			1.0000E-04
35	9.085		0.6856	0.5400%	6856	3896	1.8	2			1.0000E-04
38	9.355	g. Chlordane	0.4465	0.3517%	5662	2769	2.0	2	1	.1606	7.8847E-05
40	9.465	a. Chlordane	0.5491	0.4325%	6934	3556	1.9	2	1	-.1582	7.9185E-05
42	9.570		0.5279	0.4158%	5279	2067	2.6	2			1.0000E-04
43	9.685	4,4'-DDE	0.6887	0.5425%	6239	2019	3.1	2	1	.2588	1.1040E-04
44	9.760		1.3284	1.0464%	13284	4524	2.9	2			1.0000E-04
45	9.850	Dieldrin	0.8796	0.6928%	6806	2682	2.5	2	1	-.1014	1.2923E-04
46	9.905		0.9812	0.7729%	9812	4974	2.0	2			1.0000E-04
47	9.985		0.7825	0.6164%	7825	2662	2.9	2			1.0000E-04
48	10.050		1.4740	1.1611%	14740	6033	2.4	2			1.0000E-04
49	10.105		1.8397	1.4491%	18397	9729	1.9	2			1.0000E-04
• 50	10.175	~~Endrin~~ AE Toxaph-1	3.4462	2.7145%	34089	12809	2.7	3	1	-.2450	1.0109E-04
51	10.275		0.5438	0.4283%	5438	2227	2.4	4			1.0000E-04
52	10.350		2.0853	1.6426%	20853	8510	2.5	2			1.0000E-04
53	10.400	11-29-93	1.8033	1.4205%	18033	7658	2.4	2			1.0000E-04
54	10.470	DB	1.8182	1.4322%	18182	7968	2.3	2			1.0000E-04
55	10.540		0.9897	0.7796%	9897	3981	2.5	2			1.0000E-04
56	10.595		3.2146	2.5321%	32146	9553	3.4	2			1.0000E-04
57	10.675		1.0842	0.8540%	10842	4666	2.3	2			1.0000E-04
58	10.730		4.2819	3.3728%	42819	10824	4.0	2			1.0000E-04
59	10.825		2.1063	1.6591%	21063	7567	2.8	2			1.0000E-04
60	10.960	4,4'-DDD	4.1404	3.2613%	42785	12286	3.5	2	1	0	9.6772E-05
61	11.010	Endosulfan II	2.5202	1.9851%	21413	8138	2.6	2	1	.1819	1.1769E-04
62	11.085		4.8128	3.7910%	48128	13261	3.6	2			1.0000E-04
63	11.260	4,4'-DDT	4.7607	3.7499%	55378	13862	4.0	2	1	0	8.5967E-05
64	11.385		1.3217	1.0411%	13217	4947	2.7	2			1.0000E-04
• 65	11.445	Toxaph-2	4.6922	3.6960%	46922	19272	2.4	2			1.0000E-04
66	11.475		3.6210	2.8522%	36210	19152	1.9	2			1.0000E-04
67	11.520		1.7747	1.3979%	17747	7981	2.2	2			1.0000E-04
68	11.560		2.2335	1.7593%	22335	8355	2.7	2			1.0000E-04
69	11.615	Toxaph-3	0.7017	0.5527%	7017	3716	1.9	2			1.0000E-04
• 70	11.660	Endrin ~~Aldehyde~~	4.8710	3.8368%	52526	16057	3.3	2	1	0	9.2734E-05
71	11.720		3.0712	2.4192%	30712	14516	2.1	2			1.0000E-04
72	11.785		1.9074	1.5024%	19074	6229	3.1	2			1.0000E-04
73	11.825		2.0031	1.5778%	20031	8233	2.4	2			1.0000E-04
74	11.890		0.6616	0.5211%	6616	2988	2.2	2			1.0000E-04

1708

75	11.965		1.6082	1.2668%	16082	5326	3.0	2			1.0000E-04
76	11.990		1.1355	0.8944%	11355	5584	2.0	2			1.0000E-04
77	12.035		2.8166	2.2186%	28166	11329	2.5	2			1.0000E-04
78	12.095		4.0179	3.1649%	40179	18307	2.2	2			1.0000E-04
79	12.150		4.3711	3.4430%	43711	19220	2.3	2			1.0000E-04
80	12.205	Endo. sulfate	2.0657	1.6271%	18509	7655	2.4	2	1	.2052	1.1160E-04
81	12.270		3.0809	2.4268%	30809	11967	2.6	2			1.0000E-04
82	12.355	Methoxychlor	7.0344	5.5409%	26033	8290	3.1	2	1	.2840	2.7021E-04
83	12.435		6.7850	5.3444%	67850	16383	4.1	2			1.0000E-04
84	12.605		2.2187	1.7476%	22187	11220	2.0	2			1.0000E-04
85	12.670		0.4750	0.3741%	4750	2535	1.9	2			1.0000E-04
86	12.715		2.0691	1.6298%	20691	6492	3.2	2			1.0000E-04
87	12.825	Endrin Ketone	0.5643	0.4445%	12609	4621	2.7	2	1	.1953	4.4753E-05
88	12.890		0.6630	0.5222%	6630	1965	3.4	2			1.0000E-04
89	12.955		0.7020	0.5529%	7020	2500	2.8	2			1.0000E-04
91	13.145		2.8756	2.2651%	28756	4191	6.9	2			1.0000E-04
92	13.270		0.6611	0.5207%	6611	2874	2.3	2			1.0000E-04
94	13.400		0.6240	0.4916%	6240	2781	2.2	2			1.0000E-04
102	14.075		0.4862	0.3830%	4862	2930	1.7	2			1.0000E-04
104	14.450	DCB	3.7171	2.9279%	37651	20230	1.9	2	1	0	9.8726E-05

TOTAL AMOUNT = 126.9539

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11-23-93
DLB

EXTERNAL STANDARD TABLE

********** 11-23-1993 10:04:36 Version 5.1 **********

* Sample Name: TOXAPH01,I; Data File: O:076B10 *
* Date: 11-22-1993 21:20:49 Method: O:076BB 11-23-1993 09:47:42 # 874 *
* Interface: 2 Cycle#: 10 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

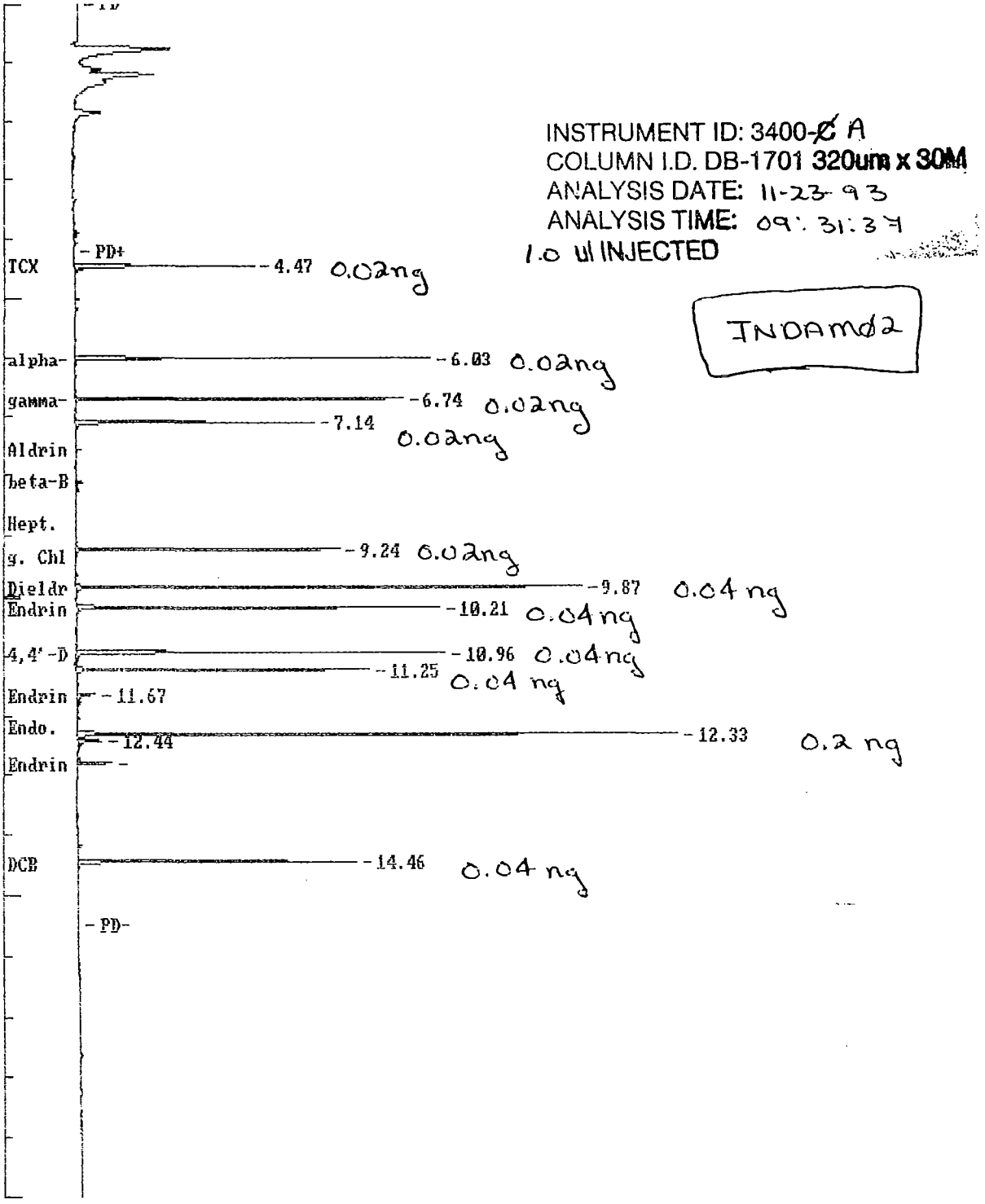
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	5.015	TCX	0.0132	0.0086%	97057	53360	1.8	1	3	0	1.3549E-07
4	5.200		2.2381	1.4627%	22381	6156	3.6	2			1.0000E-04
5	5.330		1.1588	0.7573%	11588	5533	2.1	2			1.0000E-04
8	5.995		2.5435	1.6623%	25435	9503	2.7	3			1.0000E-04
11	6.645		0.4682	0.3060%	4682	2496	1.9	1			1.0000E-04
12	6.870		2.8306	1.8499%	28306	3185	8.9	2			1.0000E-04
28	8.545		0.3914	0.2558%	3914	2189	1.8	2			1.0000E-04
29	8.590		3.5560	2.3239%	35560	8287	4.3	3			1.0000E-04
32	8.975		1.3096	0.8559%	13096	5818	2.3	1			1.0000E-04
34	9.205		0.4469	0.2921%	4469	1330	3.4	2			1.0000E-04
36	9.330		0.4259	0.2783%	4259	1838	2.3	2			1.0000E-04
37	9.460	Hept. epoxide	0.0010	0.0006%	9094	3702	2.5	2	3	-.1114	1.0548E-07
38	9.535		0.6906	0.4513%	6906	1901	3.6	2			1.0000E-04
40	9.665		0.3625	0.2369%	3625	1696	2.1	2			1.0000E-04
42	9.810	g. Chlordane	0.0023	0.0015%	24783	8356	3.0	2	3	.4067	9.2400E-08
44	9.995		1.3557	0.8860%	13557	6635	2.0	2			1.0000E-04
45	10.100	~~Endosulfan I~~ a. chlordane	0.0009	0.0006%	8416	2899	2.9	2	3	0	1.1134E-07
46	10.155		0.7591	0.4961%	7591	2867	2.6	2			1.0000E-04
48	10.325		2.6862	1.7555%	26862	6791	4.0	2			1.0000E-04
50	10.485		2.2065	1.4420%	22065	9935	2.2	2			1.0000E-04
51	10.585	4,4'-DDE	0.0025	0.0016%	22603	8121	2.8	2	3	-.2301	1.1134E-07
52	10.655		2.0678	1.3514%	20678	9105	2.3	2			1.0000E-04
53	10.680	Dieldrin	0.0029	0.0019%	28692	9405	3.1	2	3	0	9.9731E-08
54	10.795		0.4147	0.2711%	4147	2289	1.8	2			1.0000E-04
55	10.855		1.9957	1.3042%	19957	7987	2.5	2			1.0000E-04
56	10.935		3.2275	2.1093%	32275	13851	2.3	2			1.0000E-04
57	10.970		2.1985	1.4368%	21985	10182	2.2	2			1.0000E-04
58	11.055		2.1655	1.4152%	21655	8245	2.6	2			1.0000E-04
59	11.100		3.8461	2.5135%	38461	17075	2.3	2			1.0000E-04
60	11.190		2.1067	1.3768%	21067	7432	2.8	2	11.24.93		1.0000E-04
61	11.245		1.5725	1.0277%	15725	5760	2.7	2			1.0000E-04
62	11.300	Endrin	0.0013	0.0009%	11052	4254	2.6	2	3 BMG	-.2533	1.2132E-07
63	11.375		3.2546	2.1269%	32546	11080	2.9	2			1.0000E-04
64	11.445		2.7143	1.7739%	27143	11743	2.3	2			1.0000E-04
65	11.525		3.8151	2.4933%	38151	13791	2.8	2			1.0000E-04
66	11.570		4.4740	2.9239%	44740	15620	2.9	2			1.0000E-04
67	11.635	4,4'-DDD	0.0029	0.0019%	21503	10178	2.1	2	3	1710 (142%)	1.3477E-07
68	11.715	TOXAPH-1	11.6431	7.6091%	116431	29400	4.0	2			1.0000E-04
69	11.835		1.6637	1.0873%	16637	7482	2.2	2			1.0000E-04
70	11.965		2.2825	1.5576%	22825	9523	2.5	2			1.0000E-04

72	12.150	4,4'-DDT	0.0130	0.0085%	79955	25995	3.1	2	3	0	1.6277E-07
73	12.265	Endrin Aldehyde	0.0101	0.0066%	57970	23353	2.5	2	3	0	1.7436E-07
74	12.325		5.2680	3.4428%	52680	22424	2.3	2			1.0000E-04
75	12.400		1.5334	1.0021%	15334	8221	1.9	2			1.0000E-04
76	12.500	Endo. sulfate ~~AR1250~~	0.0046	0.0030%	29094	15192	1.9	1	3	0	1.5764E-07
77	12.645	Toxaph-2	6.8823	4.4978%	68823	22109	3.1	2			1.0000E-04
78	12.735		3.6411	2.3796%	36411	11061	3.3	2			1.0000E-04
79	12.810		3.6075	2.3576%	36075	12418	2.9	2			1.0000E-04
80	12.905		2.9270	1.9129%	29270	14534	2.0	2			1.0000E-04
81	12.955		2.8854	1.8857%	28854	9551	3.0	2			1.0000E-04
82	13.040		1.5685	1.0251%	15685	7954	2.0	2			1.0000E-04
83	13.090		4.7729	3.1192%	47729	16299	2.9	2			1.0000E-04
84	13.165	TOXAPH-3	8.4525	5.5240%	84525	41848	2.0	2			1.0000E-04
85	13.260		12.1591	7.9463%	121591	31504	3.9	3			1.0000E-04
87	13.475		1.8148	1.1860%	18148	9724	1.9	1			1.0000E-04
88	13.550		0.8544	0.5584%	8544	3169	2.7	2			1.0000E-04
89	13.625		0.5385	0.3519%	5385	2633	2.0	2			1.0000E-04
90	13.680		2.3935	1.5642%	23935	8518	2.8	2			1.0000E-04
91	13.750	Methoxychlor	0.0033	0.0022%	26810	7600	3.5	2	3	.1725	1.2466E-07
92	13.825	Endrin Ketone	0.0176	0.0115%	40396	16824	2.4	2	3	0	4.3502E-07
93	13.870		3.5107	2.2943%	35107	8025	4.4	2			1.0000E-04
94	14.000		0.7910	0.5170%	7910	3877	2.0	2			1.0000E-04
95	14.070		1.9171	1.2529%	19171	8245	2.3	2			1.0000E-04
96	14.115		0.7358	0.4809%	7358	3656	2.0	2			1.0000E-04
97	14.155		0.7472	0.4883%	7472	3776	2.0	2			1.0000E-04
98	14.230		2.2569	1.4749%	22569	9493	2.4	2			1.0000E-04
99	14.280		1.8173	1.1877%	18173	8142	2.2	2			1.0000E-04
100	14.405		1.0937	0.7148%	10937	3950	2.8	2			1.0000E-04
101	14.470		0.6980	0.4562%	6980	3649	1.9	2			1.0000E-04
103	14.680		1.0682	0.6981%	10682	4921	2.2	2			1.0000E-04
106	14.940		0.4342	0.2838%	4342	1548	2.8	2			1.0000E-04
107	14.995		0.5113	0.3341%	5113	2131	2.4	2			1.0000E-04
108	15.040		0.6912	0.4517%	6912	3109	2.2	2			1.0000E-04
115	15.970	DCB	0.0064	0.0042%	61664	25838	2.4	1	3	0	1.0420E-07

TOTAL AMOUNT = 153.0159

D76B1D
Pg2
11-24-93
BMB

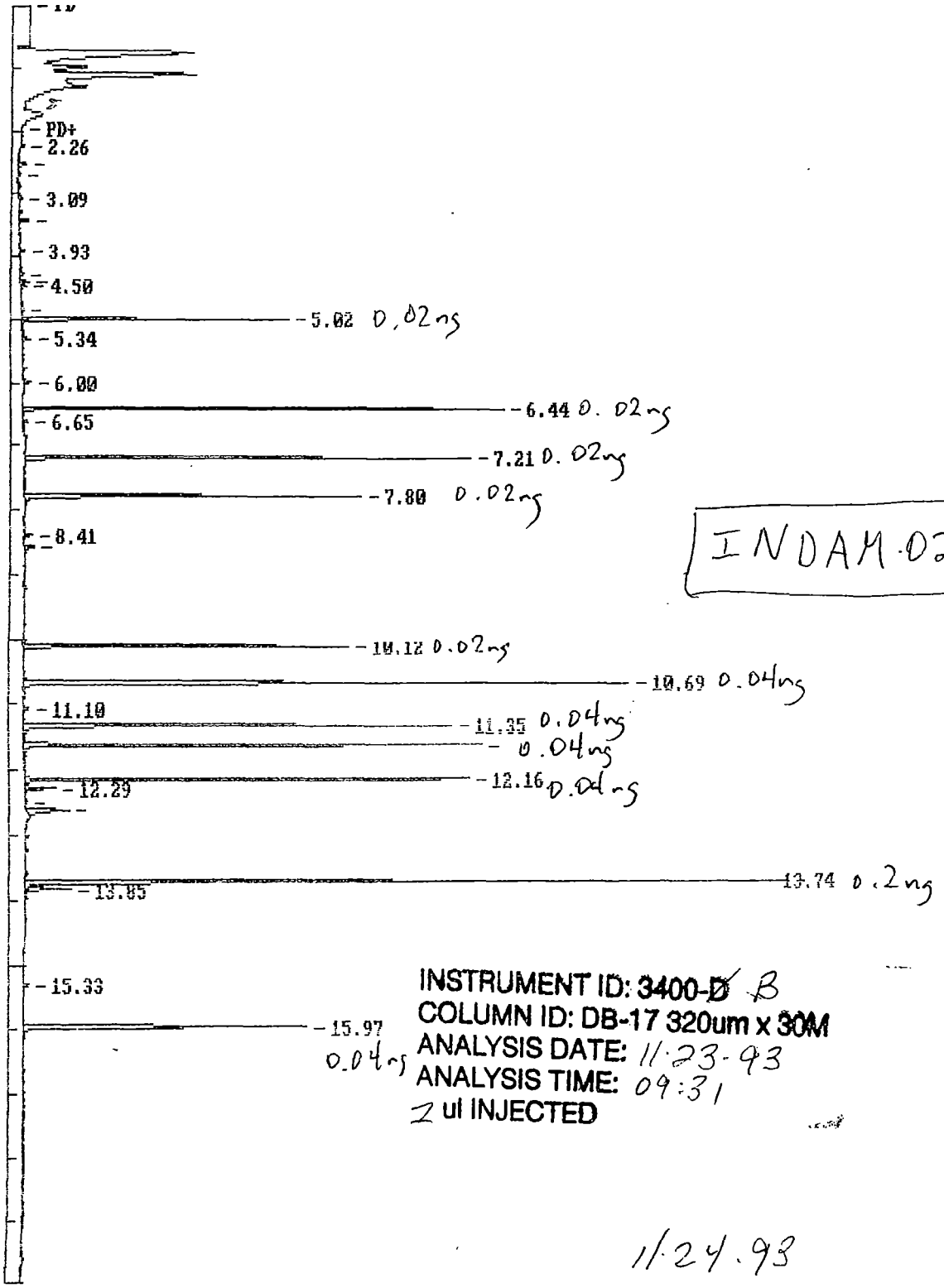
Areas, times, and heights stored in: O:076A37.ATB
Data File = O:076A37.PTS Printed on 11-23-1993 at 10:52:16
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 150 millivolts



11-24-93

1712

Data File = 0:076B37.PTS Printed on 11-24-1993 at 11:39:28
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 220 millivolts



INDAM-02

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-23-93
ANALYSIS TIME: 09:31
2 ul INJECTED

11-24-93
BMB

EXTERNAL STANDARD TABLE

********** 11-23-1993 10:52:09 Version 5.1 **********

* Sample Name: INDAM02,0; Data File: 0:076A37 *
* Date: 11-23-1993 09:31:37 Method: 0:076AB 11-23-1993 10:51:53 # 848 *
* Interface: 1 Cycle#: 37 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.465	TCX	1.9841	1.2340%	67675	37128	1.8	2	1	0	2.9318E-05
6	6.030	alpha-BHC	11.8107	7.3459%	112481	73754	1.5	2	1	-.1119	1.0500E-04
9	6.740	gamma-BHC	8.0381	4.9995%	104048	67862	1.5	1	1	-.1119	7.7254E-05
10	7.135	Heptachlor	6.9441	4.3190%	84188	49486	1.7	1	1	0	8.2482E-05
16	9.240	Endosulfan I	6.7221	4.1810%	91566	54755	1.7	1	1	-.1119	7.3413E-05
18	9.865	Dieldrin	22.3314	13.8894%	172801	104779	1.6	1	1	-.0613	1.2923E-04
19	10.205	Endrin	13.1339	8.1689%	129920	75192	1.7	1	1	0	1.0109E-04
22	10.960	4,4'-DDD	12.2157	7.5978%	126231	76648	1.6	3	1	-.1119	9.6772E-05
24	11.250	4,4'-DDT	8.9649	5.5759%	104282	60939	1.7	1	1	-.1119	8.5967E-05
26	11.665	Endrin Aldehyde	0.9837	0.6119%	10608	3775	2.8	2	1	0	9.2734E-05
30	12.325	Methoxychlor	55.4809	34.5073%	205326	124248	1.7	2	1	0	2.7021E-04
31	12.440		1.2867	0.8003%	12867	4865	2.6	3			1.0000E-04
34	12.810	Endrin Ketone	0.5379	0.3345%	12018	6947	1.7	2	1	0	4.4753E-05
37	14.455	DCB	10.3458	6.4348%	104793	57711	1.8	1	1	-.1465	9.8726E-05

TOTAL AMOUNT = 160.7799

EXTERNAL STANDARD TABLE

********** 11-24-1993 11:30:10 Version 5.1 **********

* Sample Name: INDAM02,0; Data File: 0:076B37 *
* Date: 11-23-1993 09:31:45 Method: 0:076BB 11-24-1993 11:17:35 # 882 *
* Interface: 2 Cycle#: 37 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

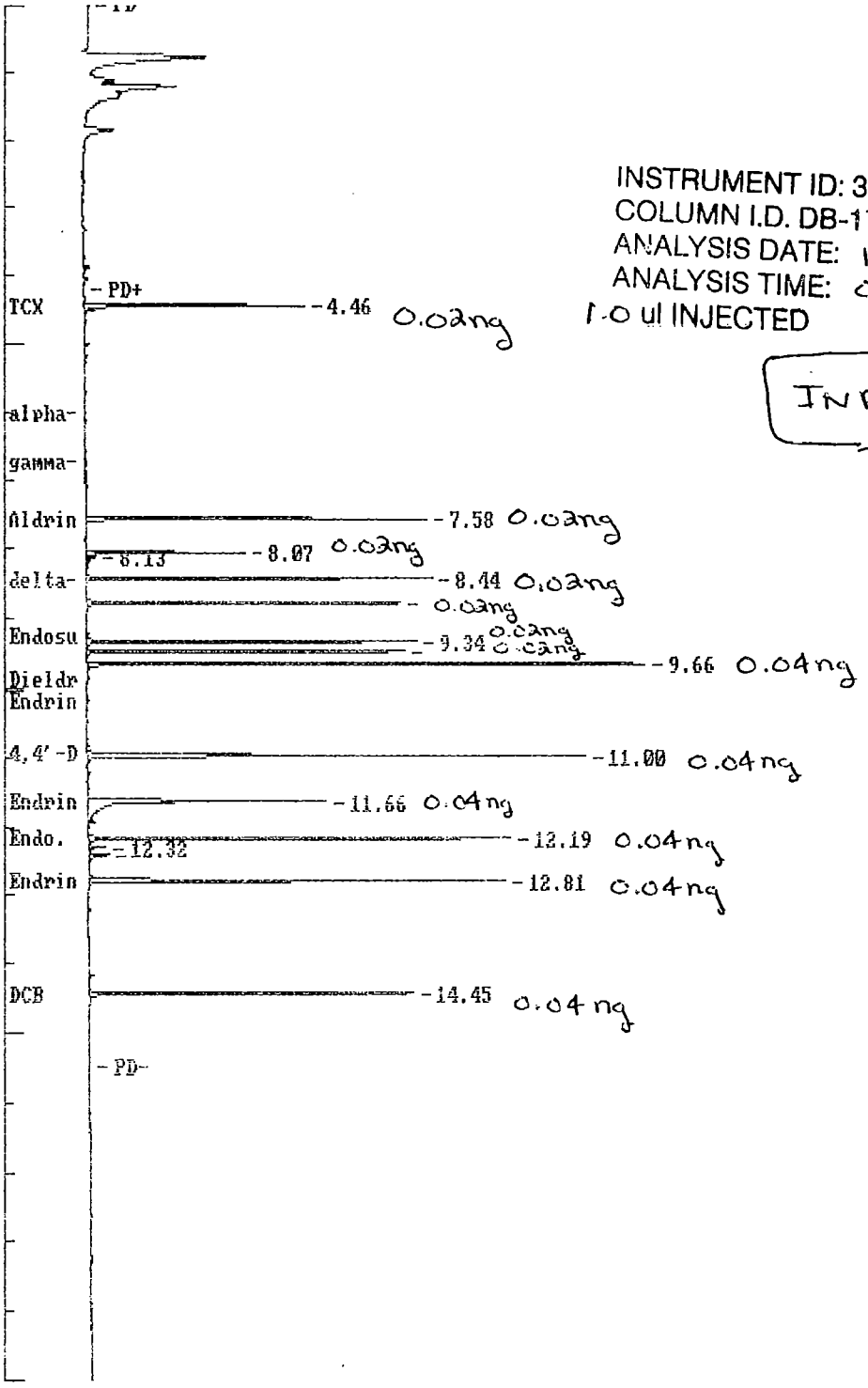
****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	5.020	TCX	0.0167	0.3012%	123554	70206	1.8	1	4	0	1.3549E-07
6	5.335		0.4128	7.4266%	4128	2197	1.9	1			1.0000E-04
11	6.000		0.4729	8.5088%	4730	2017	2.3	1			1.0000E-04
13	6.435	alpha-BHC	0.0155	0.2781%	211398	127253	1.7	1	4	0	7.3132E-08
16	7.205	gamma-BHC	0.0178	0.3205%	193865	118037	1.6	1	4	0	9.1880E-08
20	7.800	Heptachlor	0.0186	0.3343%	166710	88580	1.9	1	4	0	1.1145E-07
22	8.405	Aldrin	0.0003	0.0058%	3921	2149	1.8	1	4	.1787	8.1798E-08
23	8.590		0.7128	12.8244%	7128	2592	2.7	1			1.0000E-04
30	10.120	Endosulfan I	0.0182	0.3280%	163726	85700	1.9	1	4	0	1.1134E-07
33	10.685	Dieldrin	0.0296	0.5332%	297167	160030	1.9	2	4	0	9.9731E-08
35	11.095		0.3567	6.4173%	3567	1456	2.4	1			1.0000E-04
36	11.345	Endrin	0.0271	0.4884%	223754	113195	2.0	2	4	0	1.2132E-07
37	11.635	4,4'-DDD	0.0289	0.5191%	214088	121152	1.8	3	4	0	1.3477E-07
39	12.160	4,4'-DDT	0.0330	0.5941%	202875	117404	1.7	2	4	0	1.6277E-07
40	12.290	Endrin Aldehyde	0.0026	0.0463%	14759	7938	1.9	2	4	.0814	1.7436E-07
42	12.630		3.3198	59.7266%	33198	11063	3.0	1			1.0000E-04
47	13.740	Methoxychlor	0.0446	0.8023%	357737	201553	1.8	2	4	0	1.2465E-07
48	13.850	Endrin Ketone	0.0111	0.1989%	25414	12237	2.1	2	4	0	4.3502E-07
53	15.970	DCB	0.0192	0.3463%	184724	74674	2.5	1	4	0	1.0420E-07

TOTAL AMOUNT = 5.5584

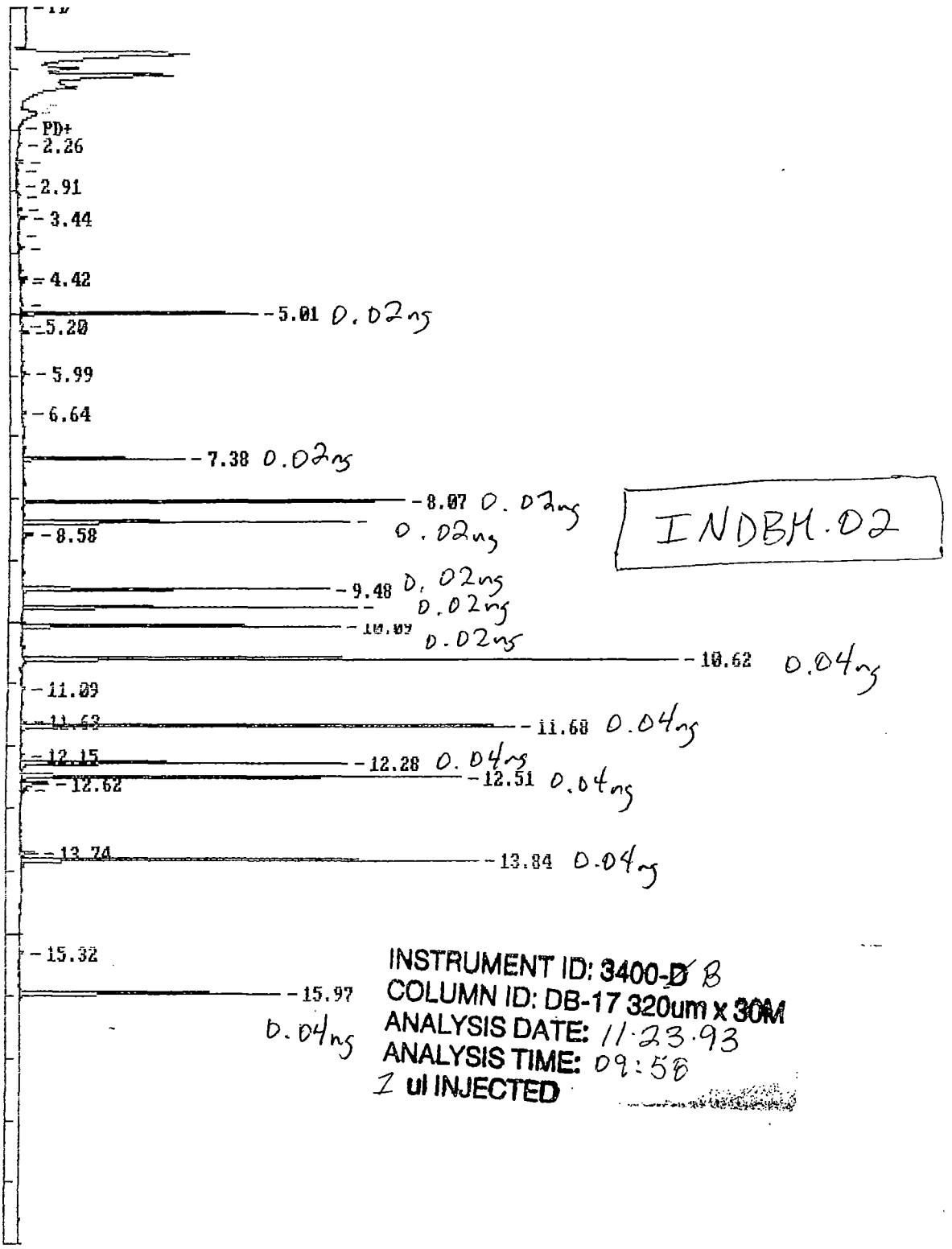
Areas, times, and heights stored in: O:076A38.ATB
Data File = O:076A38.PTS Printed on 11-23-1993 at 10:53:25
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 150 millivolts



11-24-93

176

Data File = 0:076B38.PTS Printed on 11-24-1993 at 11:40:39
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 240 millivolts



INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11.23.93
ANALYSIS TIME: 09:58
1 ul INJECTED

11.24.93
BMG

EXTERNAL STANDARD TABLE

********** 11-23-1993 10:53:15 Version 5.1 **********

* Sample Name: INDBM02,0; Data File: 0:076A38 *
* Date: 11-23-1993 09:58:42 Method: 0:076AB 11-23-1993 10:51:53 # 848 *
* Interface: 1 Cycle#: 38 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.455	TCX	2.0310	1.6130%	69275	39016	1.8	2	1	0	2.9318E-05
13	7.580	Aldrin	7.2813	5.7830%	99851	60839	1.6	1	1	.1122	7.2922E-05
14	8.070	beta-BHC	2.5817	2.0505%	42875	28061	1.5	2	1	.1122	6.0215E-05
15	8.130		0.3723	0.2957%	3723	1708	2.2	2			1.0000E-04
18	8.435	delta-BHC	8.3984	6.6702%	95110	61730	1.5	1	1	0	8.8302E-05
19	8.785	Hept. epoxide	8.1162	6.4460%	92682	55893	1.7	1	1	.1692	8.7570E-05
21	9.340	g. Chlordane	7.8948	6.2702%	100127	58888	1.7	2	1	.1122	7.8847E-05
22	9.480	a. Chlordane	7.5932	6.0307%	95892	56777	1.7	2	1	.1122	7.9185E-05
23	9.660	4,4'-DDE	19.2980	15.3269%	174802	100032	1.7	1	1	.1122	1.1040E-04
28	10.995	Endosulfan II	18.7840	14.9186%	159605	89213	1.8	1	1	.1577	1.1769E-04
31	11.655	Endrin Aldehyde	10.1926	8.0951%	109912	42418	2.6	3	1	.1551	9.2734E-05
33	12.190	Endo. sulfate	14.8271	11.7760%	132854	75661	1.8	2	1	.1944	1.1160E-04
34	12.315	Methoxychlor	1.2671	1.0064%	4689	2872	1.6	2	1	0	2.7021E-04
35	12.435		0.8246	0.6549%	8246	3477	2.4	1			1.0000E-04
37	12.805	Endrin Ketone	6.0279	4.7874%	134693	74653	1.8	2	1	.1513	4.4753E-05
41	14.445	DCB	10.4197	8.2755%	105541	57697	1.8	1	1	0	9.8726E-05

TOTAL AMOUNT = 125.9098

EXTERNAL STANDARD TABLE

********** 11-24-1993 11:34:26 Version 5.1 **********

* Sample Name: INDBM02,Q; Data File: 0:076B38 *
* Date: 11-23-1993 09:58:50 Method: 0:076BB 11-24-1993 11:17:35 # 882 *
* Interface: 2 Cycle#: 38 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

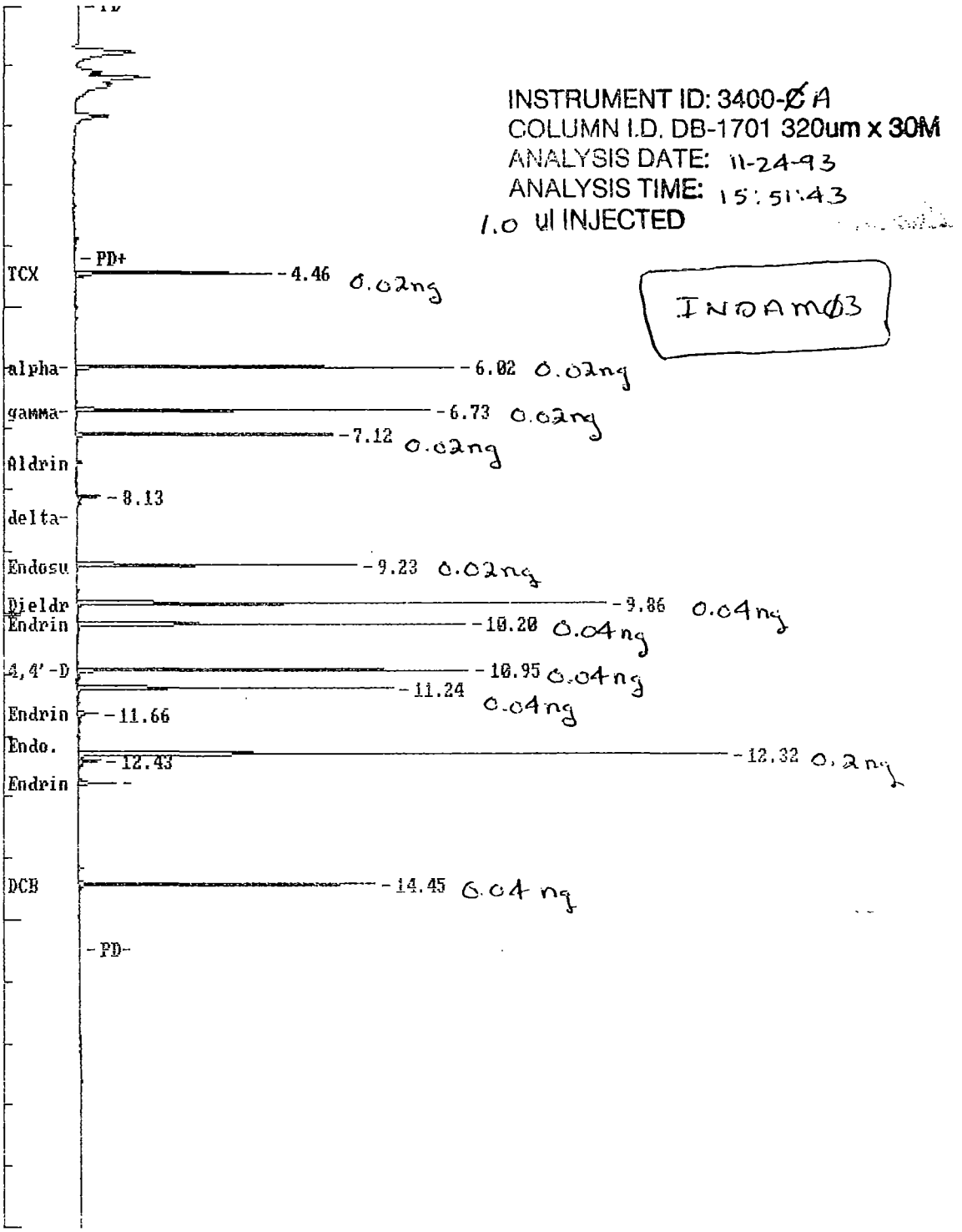
Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	5.010	TCX	0.0170	0.2933%	125741	69322	1.8	1	3	0	1.3549E-07
5	5.325		0.5112	8.8017%	5112	2347	2.2	2			1.0000E-04
10	5.990		0.4450	7.6625%	4450	2079	2.1	1			1.0000E-04
18	7.380	beta-BHC	0.0211	0.3633%	76191	47201	1.6	1	3	.1996	2.7691E-07
23	8.065	delta-BHC	0.0183	0.3156%	180971	112930	1.6	1	3	.2617	1.0128E-07
26	8.390	Aldrin	0.0147	0.2531%	179717	96452	1.9	1	3	.1996	8.1798E-08
27	8.580		1.0113	17.4136%	10113	3145	3.2	1			1.0000E-04
30	9.480	Hept. epoxide	0.0176	0.3028%	166693	90327	1.8	1	3	.1996	1.0548E-07
31	9.780	g. Chlordane	0.0165	0.2848%	178987	98594	1.8	1	3	.1996	9.2400E-08
32	10.085	~~Endosulfan I~~ a.chlordane	0.0188	0.3242%	169129	93709	1.8	1	3	-.1469	1.1134E-07
35	10.615	4,4'-DDE	0.0359	0.6173%	322010	193602	1.7	1	3	.1524	1.1134E-07
43	11.680	Endosulfan II	0.0284	0.4898%	285644	146239	2.0	2	3	.1995	9.9585E-08
46	12.280	Endrin Aldehyde	0.0327	0.5633%	187616	96432	1.9	2	3	.1996	1.7436E-07
47	12.505	Endo. sulfate	0.0377	0.6496%	239315	130622	1.8	2	3	.2396	1.5764E-07
48	12.620		2.8024	48.2527%	28024	8358	3.4	2			1.0000E-04
49	12.735		0.6491	11.1769%	6491	2112	3.1	2			1.0000E-04
52	13.735	Methoxychlor	0.0014	0.0233%	10877	5022	2.2	2	3	.1631	1.2466E-07
53	13.840	Endrin Ketone	0.1092	1.8794%	250911	135584	1.9	2	3	.1996	4.3502E-07
58	15.965	DCB	0.0193	0.3328%	185497	76645	2.4	1	3	.1682	1.0420E-07

TOTAL AMOUNT = 5.8078

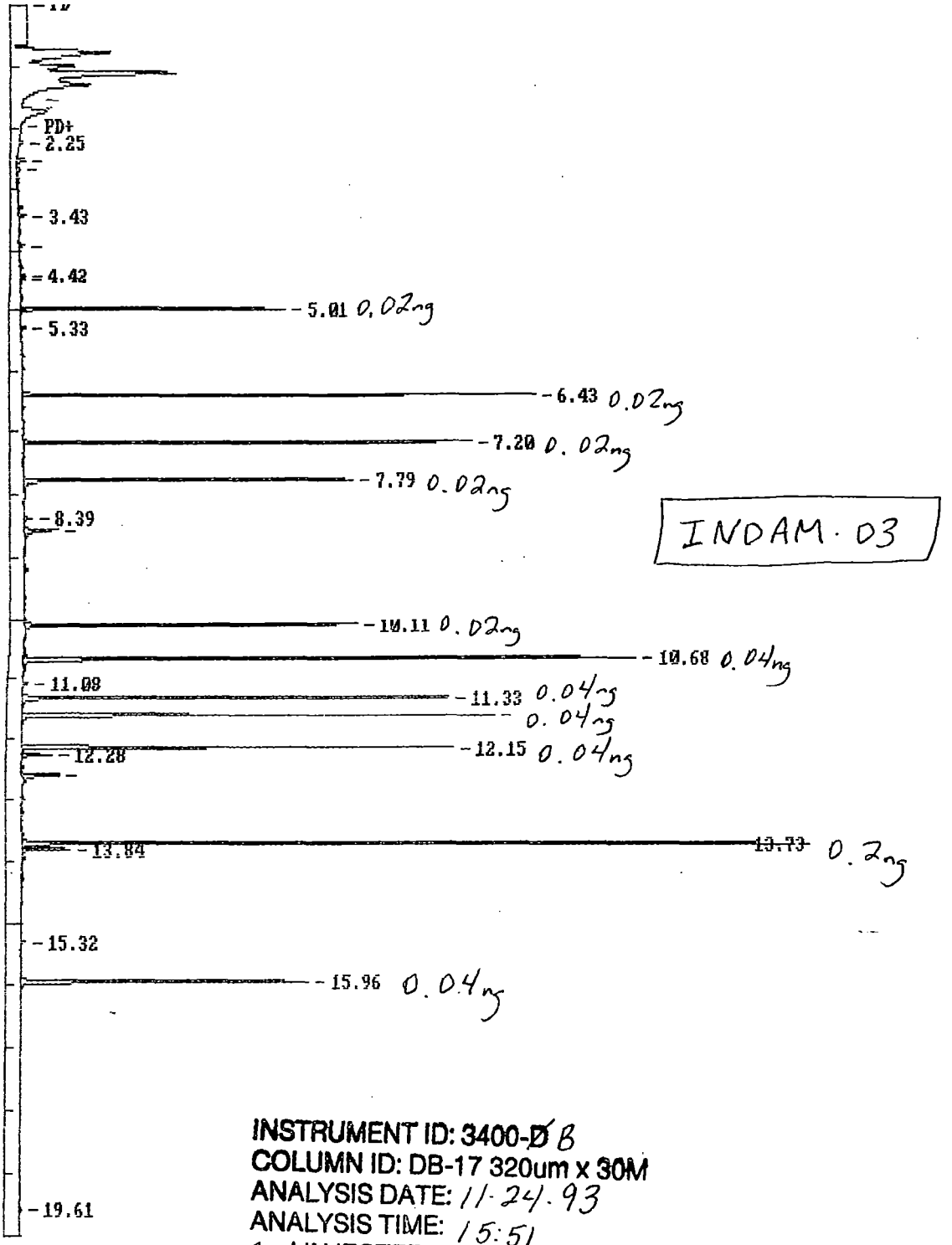
11-24-93
BMG

Areas, times, and heights stored in: O:076A52.ATB
Data File = O:076A52.PTS Printed on 11-24-1993 at 16:26:43
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 150 millivolts



11-29-93

Data File = 0:076B52.PTS Printed on 11-29-1993 at 09:22:09
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 220 millivolts



INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-24-93
ANALYSIS TIME: 15:51
1 ul INJECTED

11-29-93 BMG

EXTERNAL STANDARD TABLE

********** 11-24-1993 16:26:36 Version 5.1 **********

* Sample Name: INDAM03,Q,; Data File: O:076A52 *
* Date: 11-24-1993 15:51:43 Method: O:076AB 11-24-1993 16:25:34 # 859 *
* Interface: 1 Cycle#: 52 Operator DB Channel#: O Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector O: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.455	TCX	2.0696	1.2099%	70592	39276	1.8	2	1	0	2.9318E-05
6	6.020	alpha-BHC	12.3559	7.2231%	117673	76531	1.5	2	1	0	1.0500E-04
9	6.730	gamma-BHC	8.4099	4.9163%	108860	71474	1.5	1	1	0	7.7254E-05
10	7.120	Heptachlor	7.2228	4.2224%	87568	51676	1.7	1	1	0	8.2482E-05
12	8.125		0.8596	0.5025%	8596	4500	1.9	1			1.0000E-04
15	9.230	Endosulfan I	7.0632	4.1291%	96212	56518	1.7	1	1	0	7.3413E-05
17	9.855	Dieldrin	23.5984	13.7953%	182605	106602	1.7	1	1	0	1.2923E-04
19	10.195	Endrin	14.1806	8.2898%	140274	78515	1.8	2	1	0	1.0109E-04
22	10.950	4,4'-DDD	13.0495	7.6286%	134847	79158	1.7	3	1	0	9.6772E-05
24	11.240	4,4'-DDT	9.3737	5.4797%	109038	63817	1.7	1	1	0	8.5967E-05
26	11.655	Endrin Aldehyde	1.0814	0.6322%	11661	4021	2.9	3	1	.1551	9.2734E-05
30	12.315	Methoxychlor	59.3341	34.6859%	219586	130834	1.7	2	1	0	2.7021E-04
31	12.430		1.1166	0.6527%	11166	4267	2.6	3			1.0000E-04
34	12.800	Endrin Ketone	0.5780	0.3379%	12916	7436	1.7	2	1	.1122	4.4753E-05
37	14.445	DCB	10.7678	6.2947%	109067	59691	1.8	1	1	0	9.8726E-05

TOTAL AMOUNT = 171.0611

EXTERNAL STANDARD TABLE

********** 11-24-1993 17:37:46 Version 5.1 **********

* Sample Name: INDAMO3,Q,; Data File: 0:076B52 *
* Date: 11-24-1993 15:51:45 Method: 0:076BB 11-24-1993 17:15:17 # 884 *
* Interface: 2 Cycle#: 52 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

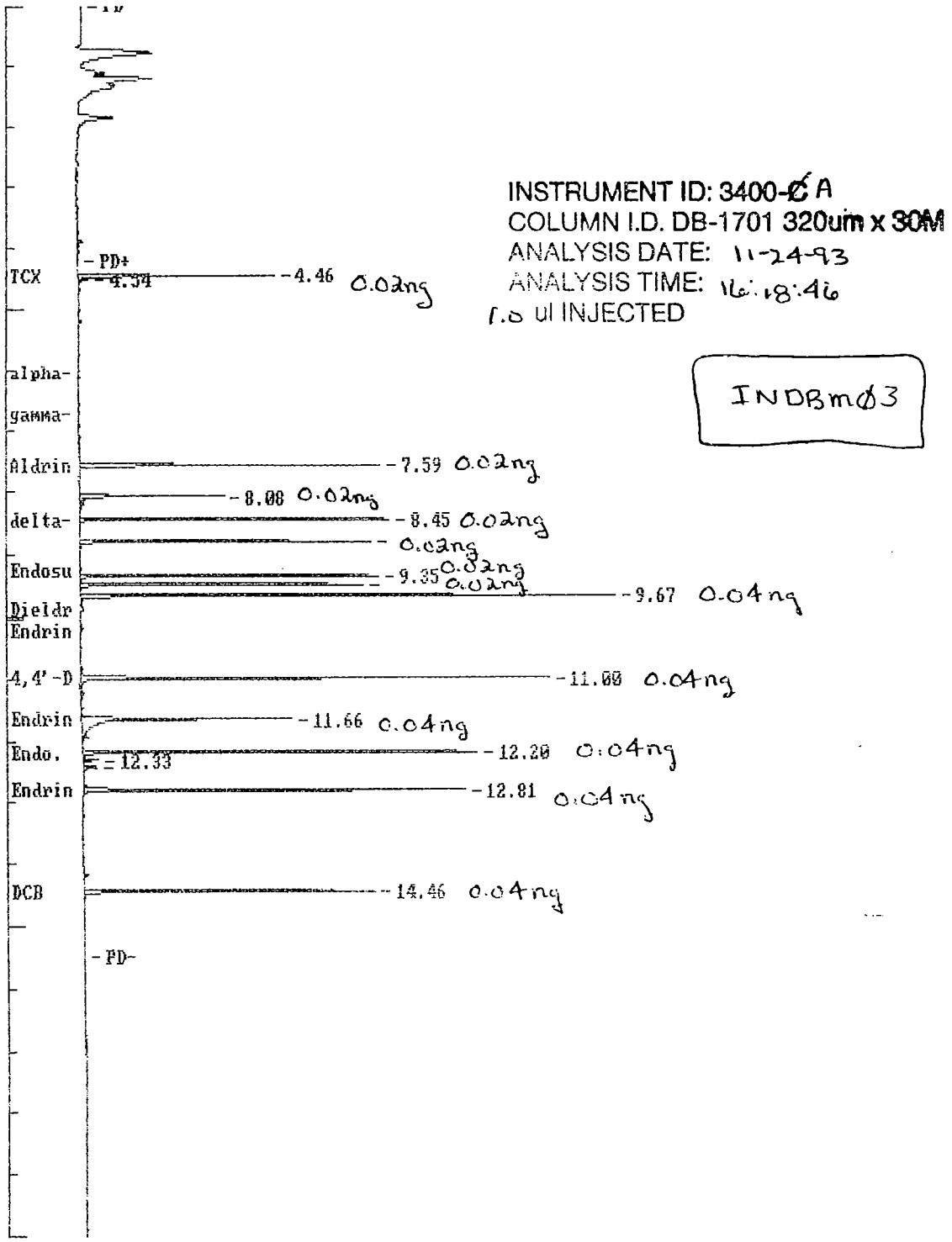
****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	5.010	TCX	0.0171	0.2685%	126370	71780	1.8	1	2	0	1.3549E-07
9	6.425	alpha-BHC	0.0160	0.2513%	219018	140416	1.6	1	2	0	7.3132E-08
12	7.195	gamma-BHC	0.0184	0.2893%	200687	122595	1.6	1	2	.1300	9.1880E-08
17	7.790	Heptachlor	0.0186	0.2919%	166934	89665	1.9	1	2	0	1.1145E-07
19	8.390	Aldrin	0.0003	0.0051%	3399	2286	1.7	1	2	.1996	8.1798E-08
20	8.580		3.1656	49.6629%	31656	9552	3.3	1			1.0000E-04
26	10.110	Endosulfan I	0.0188	0.2956%	169254	90845	1.9	1	2	.1005	1.1134E-07
29	10.675	Dieldrin	0.0309	0.4845%	309654	167320	1.9	2	2	.1526	9.9731E-08
32	11.330	Endrin	0.0278	0.4368%	229524	116740	2.0	1	2	.1112	1.2132E-07
33	11.620	4,4'-DDD	0.0305	0.4782%	226186	129138	1.8	1	2	.1134	1.3477E-07
35	12.150	4,4'-DDT	0.0338	0.5302%	207622	118123	1.8	2	2	.1172	1.6277E-07
36	12.280	Endrin Aldehyde	0.0027	0.0420%	15343	8282	1.9	2	2	.1996	1.7436E-07
38	12.615		2.9148	45.7278%	29148	10145	2.9	1			1.0000E-04
42	13.730	Methoxychlor	0.0474	0.7437%	380274	210544	1.8	2	2	.1266	1.2466E-07
43	13.935	Endrin Ketone	0.0116	0.1827%	26764	13260	2.0	2	2	.1634	4.3502E-07
48	15.960	DCB	0.0197	0.3095%	189307	78067	2.4	1	2	.1368	1.0420E-07

TOTAL AMOUNT = 6.3742

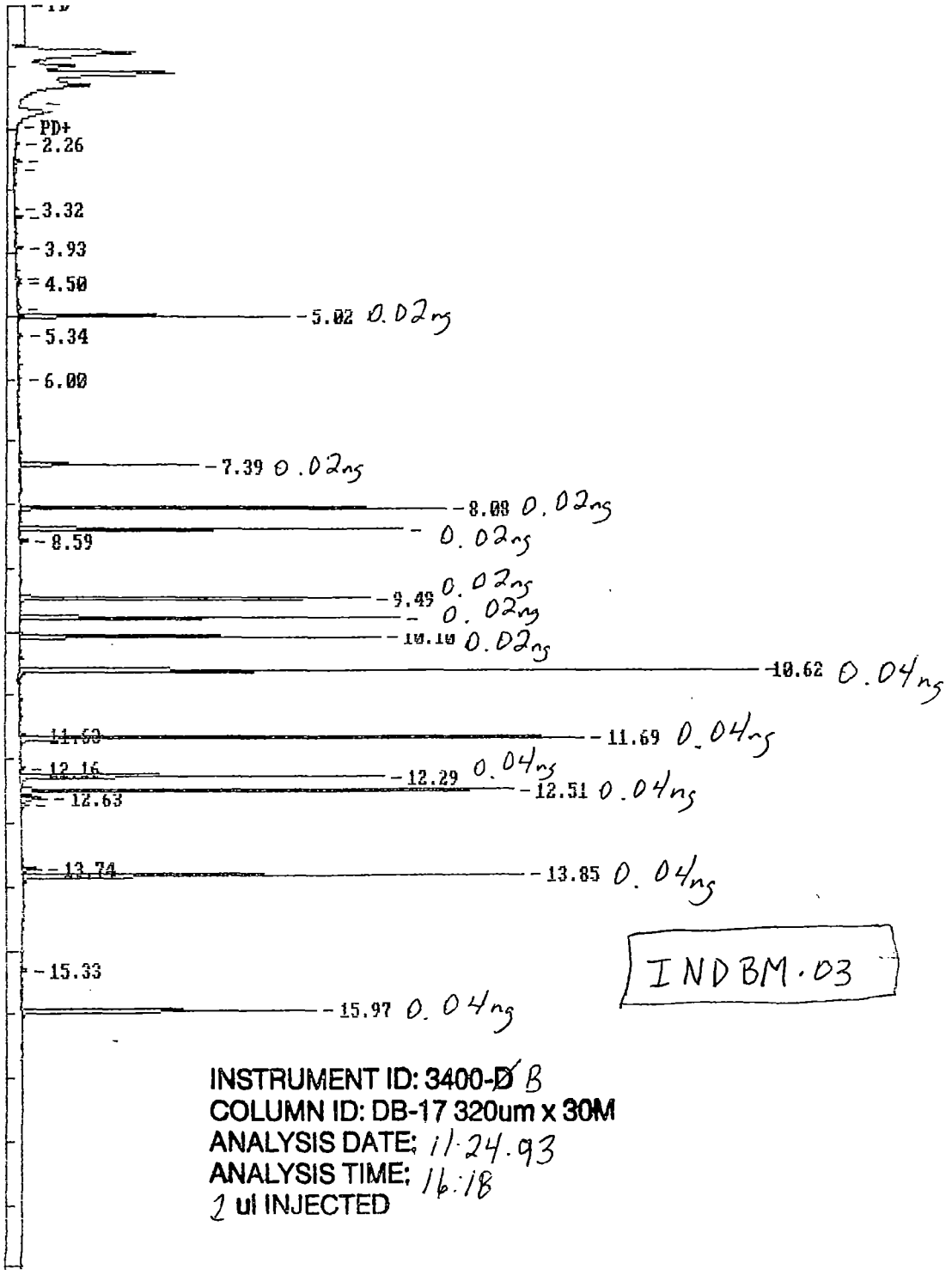
Areas, times, and heights stored in: 0:076A53.ATB
Data File = 0:076A53.PTS Printed on 11-24-1993 at 16:48:32
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 150 millivolts



11-29-93

1724

Data File = 0:076B53.PTS Printed on 11-29-1993 at 09:23:37
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 220 millivolts



INDBM.03

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11.24.93
ANALYSIS TIME: 16:18
2 ul INJECTED

11.29.93
BMG

EXTERNAL STANDARD TABLE

********** 11-24-1993 16:48:25 Version 5.1 **********

* Sample Name: INDBM03,Q,; Data File: 0:076A53 *
* Date: 11-24-1993 16:18:46 Method: 0:076AB 11-24-1993 16:25:34 # 859 *
* Interface: 1 Cycle#: 53 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.460	TCX	2.0657	1.5974%	70458	39318	1.8	2	1	0	2.9318E-05
2	4.535		0.3607	0.2789%	3607	1920	1.9	2			1.0000E-04
13	7.590	Aldrin	7.4500	5.7612%	102164	60452	1.7	1	1	.1319	7.2922E-05
14	8.080	beta-BHC	2.6494	2.0488%	43999	28802	1.5	2	1	.1239	6.0215E-05
18	8.445	delta-BHC	8.6215	6.6671%	97636	62274	1.6	1	1	0	8.8302E-05
19	8.795	Hept. epoxide	8.3565	6.4623%	95427	58640	1.6	1	1	.1708	8.7570E-05
21	9.350	g. Chlordane	8.0838	6.2513%	102525	60005	1.7	2	1	.1070	7.8847E-05
22	9.485	a. Chlordane	7.7706	6.0091%	98132	56984	1.7	2	1	.0527	7.9185E-05
23	9.665	4,4'-DDE	19.7281	15.2561%	178698	107371	1.7	1	1	0	1.1040E-04
28	11.000	Endosulfan II	19.6690	15.2104%	167124	94398	1.8	2	1	.0909	1.1769E-04
31	11.660	Endrin Aldehyde	10.2244	7.9067%	110255	42186	2.6	3	1	0	9.2734E-05
33	12.195	Endo. sulfate	15.2823	11.8181%	136933	79337	1.7	2	1	.1231	1.1160E-04
34	12.325	Methoxychlor	1.2778	0.9881%	4729	2855	1.7	2	1	0	2.7021E-04
35	12.440		0.6139	0.4748%	6139	2714	2.3	1			1.0000E-04
37	12.810	Endrin Ketone	6.2997	4.8717%	140767	76888	1.8	2	1	0	4.4753E-05
41	14.455	DCB	10.8598	8.3980%	109999	58500	1.9	1	1	-.0345	9.8726E-05

TOTAL AMOUNT = 129.3130

EXTERNAL STANDARD TABLE

********** 11-24-1993 17:39:22 Version 5.1 **********

* Sample Name: INDBM03,Q,; Data File: O:076B53 *
* Date: 11-24-1993 16:18:48 Method: O:076BB 11-24-1993 17:15:17 # 884 *
* Interface: 2_ Cycle#: 53 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

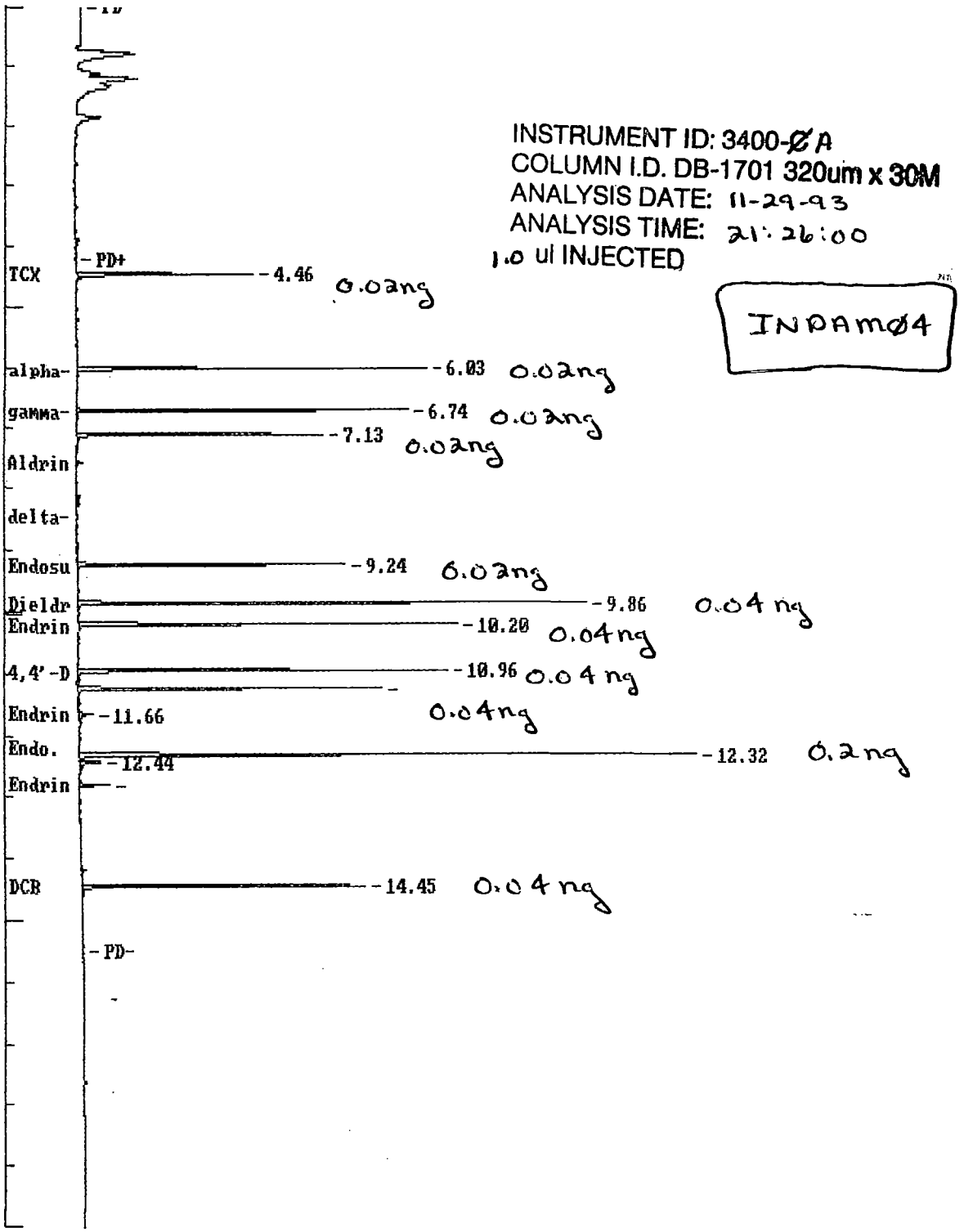
Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	5.020	TCX	0.0171	0.4632%	126003	71773	1.8	1	3	0	1.3549E-07
18	7.390	beta-BHC	0.0213	0.5777%	76905	47112	1.6	1	3	.1355	2.7691E-07
22	8.075	delta-BHC	0.0186	0.5034%	183223	113317	1.6	1	3	.1861	1.0128E-07
24	8.400	Aldrin	0.0148	0.4027%	181470	101892	1.8	1	3	.1192	8.1798E-08
25	8.590		0.6007	16.2973%	6007	2217	2.7	1			1.0000E-04
28	9.485	Hept. epoxide	0.0177	0.4804%	167858	92914	1.8	1	3	.0527	1.0548E-07
29	9.790	g. Chlordane	0.0167	0.4528%	180625	100928	1.8	1	3	.1022	9.2400E-08
30	10.095	a. Chlordane	0.0156	0.4231%	170822	95642	1.8	1	3	0	9.1302E-08
33	10.620	4,4'-DDE	0.0377	1.0223%	338466	196674	1.7	1	3	0	1.1134E-07
39	11.685	Endosulfan II	0.0285	0.7742%	286563	149978	1.9	2	3	0	9.9585E-08
42	12.290	Endrin Aldehyde	0.0324	0.8780%	185615	96591	1.9	2	3	.0814	1.7436E-07
43	12.510	Endo. sulfate	0.0384	1.0412%	243456	131326	1.9	2	3	0	1.5764E-07
44	12.625		2.1659	58.7603%	21659	6914	3.1	2			1.0000E-04
45	12.740		0.5281	14.3277%	5281	1906	2.8	2			1.0000E-04
49	13.740	Methoxychlor	0.0013	0.0363%	10728	5061	2.1	2	3	0	1.2466E-07
50	13.845	Endrin Ketone	0.1112	3.0177%	255695	133640	1.9	2	3	.0361	4.3502E-07
54	15.970	DCB	0.0200	0.5416%	191589	77827	2.5	1	3	0	1.0420E-07

TOTAL AMOUNT = 3.6860

1707

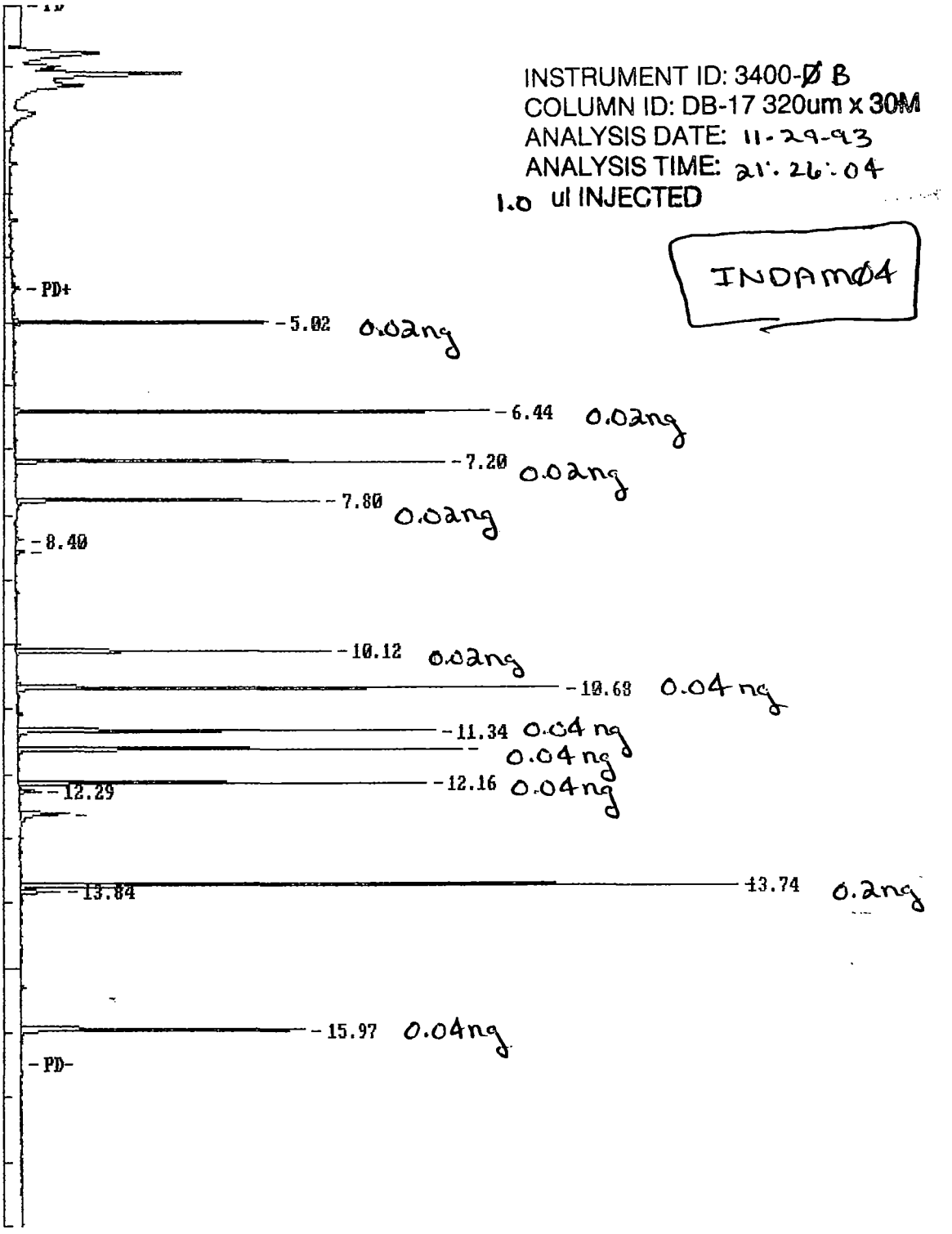
Areas, times, and heights stored in: 0:076A79.ATB
Data File = 0:076A79.PTS Printed on 12-01-1993 at 14:32:49
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 150 millivolts



12-01-93

1728

Areas, times, and heights stored in: 0:076B79.ATB
Data File = 0:076B79.PTS Printed on 12-01-1993 at 14:33:59
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 220 millivolts



12-01-93

1729

EXTERNAL STANDARD TABLE

```
******************** 12-01-1993 14:32:42 Version 5.1 ********************
* Sample Name: INDAMO4,Q,;                          Data File: 0:076A79      *
* Date: 11-29-1993 21:26:00 Method: 0:076AB  12-01-1993 14:30:04  #  867   *
* Interface: 1   Cycle#:  79   Operator DB  Channel#: 0    Vial#: N.A.      *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250               *
*************************************************************************
* Instrument Type: 3400-A                  Column Type: DB-1701 .32mm x 30M  *
*              Solvent Description: carrier gas = H2; make-up = N2          *
* Conditions:  110H.5to140@20/minto280@11/minH9 INJ=210 DET=300             *
*            Detector 0: ECD Range1          Detector 1: ECD Range1         *
* Misc. Information: 11/22/93,P,;                                           *
*************************************************************************
Starting Delay:    0.00                      Ending retention time:    20.00
Area reject:      3500                       One sample per    0.300 sec.
Amount injected:        1.00                 Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.460	TCX	1.8546	1.1409%	63258	35351	1.8	1	1	0	2.9318E-05
5	6.025	alpha-BHC	11.4339	7.0342%	108892	70623	1.5	2	1	0	1.0500E-04
8	6.735	gamma-BHC	7.8092	4.8042%	101084	66880	1.5	1	1	0	7.7254E-05
9	7.130	Heptachlor	6.8208	4.1962%	82694	49646	1.7	1	1	0	8.2482E-05
15	9.235	Endosulfan I	6.6170	4.0708%	90134	54008	1.7	1	1	0	7.3413E-05
17	9.860	Dieldrin	22.4126	13.7883%	173429	103029	1.7	1	1	0	1.2923E-04
19	10.200	Endrin	13.6775	8.4144%	135297	76800	1.8	2	1	0	1.0109E-04
21	10.955	4,4'-DDD	12.4129	7.6365%	128269	74936	1.7	3	1	-.0456	9.6772E-05
23	11.245	4,4'-DDT	9.0047	5.5398%	104746	61392	1.7	1	1	0	8.5967E-05
25	11.655	Endrin Aldehyde	0.7211	0.4436%	7776	2910	2.7	3	1	0	9.2734E-05
29	12.320	Methoxychlor	58.0137	35.6903%	214699	124693	1.7	2	1	0	2.7021E-04
30	12.435		1.1565	0.7115%	11565	4379	2.6	3			1.0000E-04
33	12.805	Endrin Ketone	0.4665	0.2870%	10424	6159	1.7	2	1	0	4.4753E-05
36	14.450	DCB	10.1466	6.2422%	102775	57032	1.8	1	1	0	9.8726E-05

TOTAL AMOUNT = 162.5474

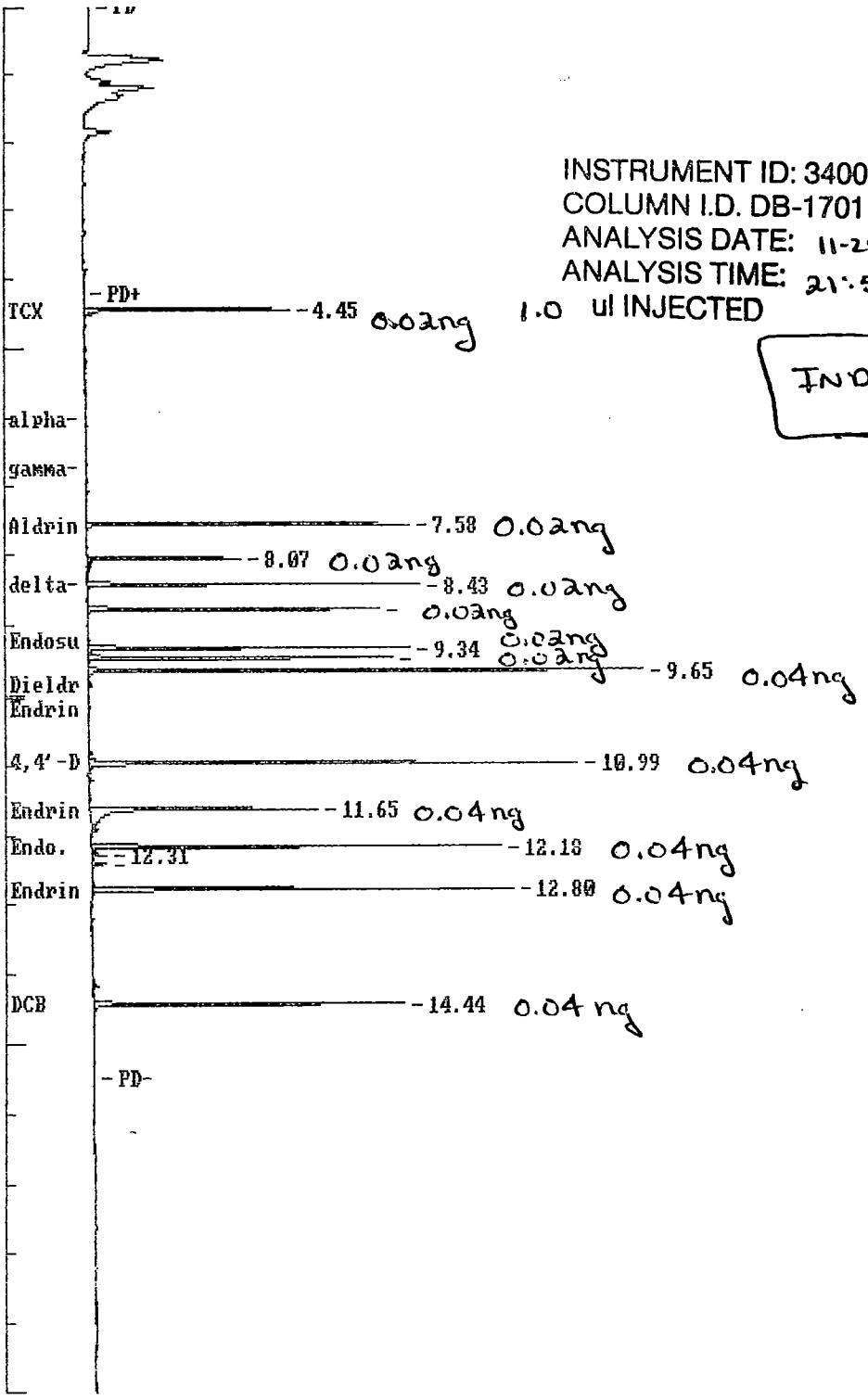
EXTERNAL STANDARD TABLE

```
******************** 12-01-1993 14:33:49 Version 5.1 ************************
* Sample Name: INDAM04,Q,;                          Data File: O:076B79       *
* Date: 11-29-1993 21:26:04 Method: O:076BB  12-01-1993 14:30:39  #  892    *
* Interface: 2   Cycle#:  79   Operator BG  Channel#: 0    Vial#: N.A.       *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250                *
*****************************************************************************
* Instrument Type: 3400-B                  Column Type: DB-17 .32mm x 30M   *
*              Solvent Description: carrier gas = H2; make-up = N2          *
* Conditions:  110H.5to140@20/min to280@11/minH9 INJ=210 DET=300            *
*            Detector 0: ECD Range1          Detector 1: ECD Range1         *
* Misc. Information: 11/22/93,C,;                                           *
*****************************************************************************
Starting Delay:    0.00                    Ending retention time:    19.00
Area reject:      3500                     One sample per    0.300 sec.
Amount injected:        1.00               Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	5.015	TCX	0.0167	0.3000%	123174	69759	1.8	1	2	0	1.3549E-07
9	6.435	alpha-BHC	0.0154	0.2761%	210061	130800	1.6	1	2	0	7.3132E-08
12	7.200	gamma-BHC	0.0177	0.3182%	192662	118061	1.6	1	2	0	9.1880E-08
17	7.795	Heptachlor	0.0172	0.3085%	153969	82844	1.9	1	2	0	1.1145E-07
20	8.400	Aldrin	0.0003	0.0058%	3929	2105	1.9	1	2	.2190	8.1798E-08
21	8.585		0.7651	13.7523%	7651	2406	3.2	1			1.0000E-04
27	10.115	Endosulfan I	0.0180	0.3236%	161700	85940	1.9	1	2	0	1.1134E-07
30	10.680	Dieldrin	0.0284	0.5100%	284463	149042	1.9	2	2	0	9.9731E-08
33	11.340	Endrin	0.0275	0.4943%	226680	114676	2.0	2	2	0	1.2132E-07
34	11.630	4,4'-DDD	0.0283	0.5086%	209952	122205	1.7	2	2	0	1.3477E-07
36	12.155	4,4'-DDT	0.0316	0.5688%	194408	111730	1.7	2	2	0	1.6277E-07
37	12.285	Endrin Aldehyde	0.0020	0.0355%	11311	5998	1.9	2	2	.1404	1.7436E-07
39	12.625		4.5230	81.3037%	45230	13618	3.3	1			1.0000E-04
43	13.735	Methoxychlor	0.0429	0.7719%	344493	196896	1.7	2	2	0	1.2466E-07
44	13.840	Endrin Ketone	0.0097	0.1737%	22217	10959	2.0	2	2	0	4.3502E-07
48	15.965	DCB	0.0194	0.3489%	186279	77270	2.4	1	2	0	1.0420E-07

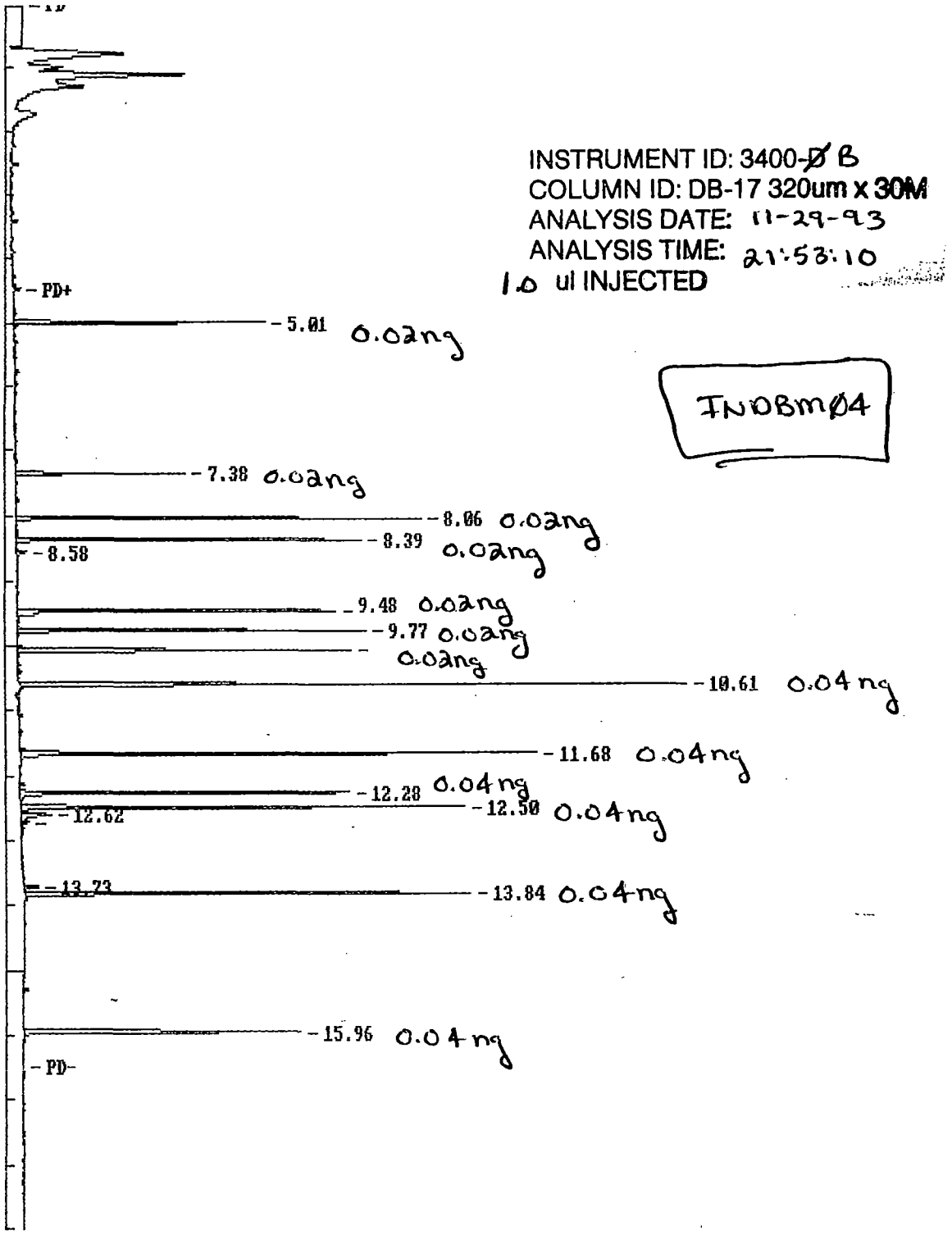
TOTAL AMOUNT = 5.5631

Areas, times, and heights stored in: O:076A80.ATB
Data File = O:076A80.PTS Printed on 12-01-1993 at 14:35:13
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 150 millivolts



12-01-93

Areas, times, and heights stored in: 0:076B80.ATB
Data File = 0:076B80.PTS Printed on 12-01-1993 at 14:36:35
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 220 millivolts



12-01-93

1733

++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-01-1993 14:35:05 Version 5.1 **********

* Sample Name: INDBM04,Q,; Data File: 0:076A80 *

* Date: 11-29-1993 21:53:05 Method: 0:076AB 12-01-1993 14:30:04 # 867 *

* Interface: 1 Cycle#: 80 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.450	TCX	1.9139	1.6018%	65283	36349	1.8	2	1	0	2.9318E-05
12	7.575	Aldrin	6.8794	5.7577%	94340	57340	1.6	1	1	.1586	7.2922E-05
13	8.065	beta-BHC	2.4658	2.0637%	40950	27008	1.5	2	1	.1626	6.0215E-05
17	8.430	delta-BHC	7.9878	6.6853%	90460	59171	1.5	1	1	.1059	8.8302E-05
18	8.780	Hept. epoxide	7.7484	6.4849%	88483	51912	1.7	1	1	.2247	8.7570E-05
20	9.335	g. Chlordane	7.4834	6.2631%	94909	57381	1.7	2	1	.1710	7.8847E-05
21	9.475	a. Chlordane	7.2028	6.0283%	90962	54308	1.7	2	1	.1718	7.9185E-05
22	9.650	4,4'-DDE	18.2013	15.2333%	164868	98702	1.7	1	1	.1209	1.1040E-04
27	10.985	Endosulfan II	18.2164	15.2459%	154782	87248	1.8	1	1	.1791	1.1769E-04
30	11.645	Endrin Aldehyde	9.4589	7.9165%	102001	40388	2.5	3	1	.1817	9.2734E-05
32	12.180	Endo. sulfate	14.2435	11.9209%	127625	73160	1.7	2	1	.2247	1.1160E-04
33	12.310	Methoxychlor	1.1780	0.9859%	4360	2687	1.6	2	1	.1433	2.7021E-04
34	12.425		0.6332	0.5300%	6332	2637	2.4	1			1.0000E-04
36	12.795	Endrin Ketone	5.8591	4.9037%	130922	75200	1.7	2	1	.1855	4.4753E-05
40	14.440	DCB	10.0114	8.3789%	101405	55331	1.8	1	1	0	9.8726E-05

TOTAL AMOUNT = 119.4833

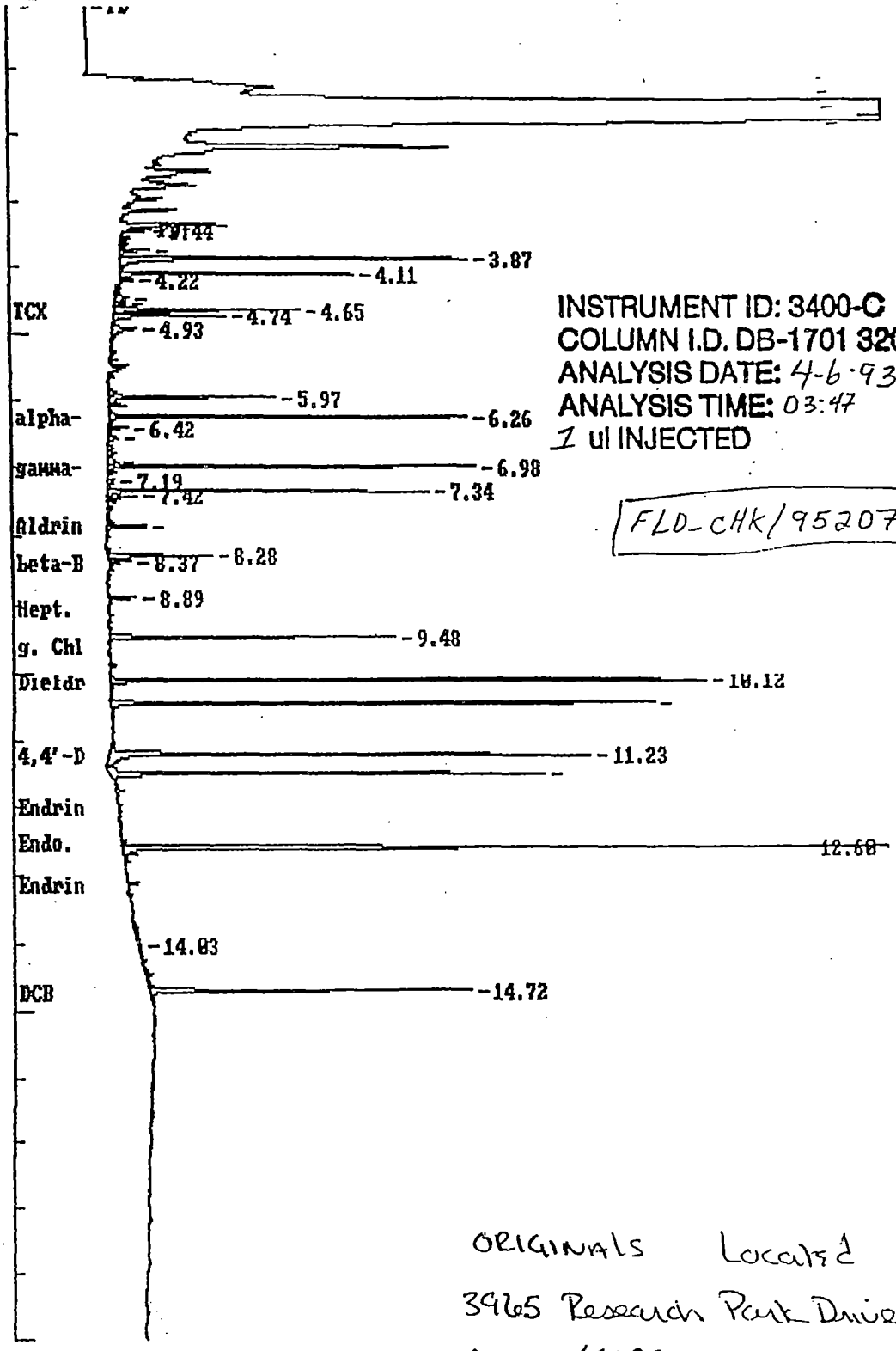
EXTERNAL STANDARD TABLE

```
******************** 12-01-1993 14:36:25 Version 5.1 ********************
* Sample Name: INDBM04,Q,;                          Data File: 0:076B80      *
* Date: 11-29-1993 21:53:10 Method: 0:076BB  12-01-1993 14:30:39  #  892   *
* Interface: 2   Cycle#:  80   Operator BG  Channel#: 0    Vial#: N.A.      *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250               *
*************************************************************************
* Instrument Type: 3400-B                  Column Type: DB-17 .32mm x 30M   *
*              Solvent Description: carrier gas = H2; make-up = N2          *
* Conditions:  110H.5to140@20/min to280@11/minH9 INJ=210 DET=300            *
*            Detector 0: ECD Range1          Detector 1: ECD Range1         *
* Misc. Information: 11/22/93,C,;                                           *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    19.00
Area reject:      3500                     One sample per    0.300 sec.
Amount injected:        1.00               Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	5.010	TCX	0.0165	0.3853%	121989	68312	1.8	1	3	0	1.3549E-07
15	7.375	beta-BHC	0.0205	0.4769%	73872	45828	1.6	1	3	.1317	2.7691E-07
19	8.060	delta-BHC	0.0177	0.4138%	175240	111064	1.6	1	3	.1995	1.0128E-07
21	8.385	Aldrin	0.0142	0.3303%	173198	94103	1.8	1	3	.1398	8.1798E-08
22	8.575		0.7509	17.5061%	7509	2528	3.0	1			1.0000E-04
24	9.475	Hept. epoxide	0.0166	0.3875%	157585	87043	1.8	1	3	.1467	1.0548E-07
25	9.775	g. Chlordane	0.0160	0.3719%	172641	95290	1.8	1	3	.1483	9.2400E-08
26	10.080	a. Chlordane	0.0149	0.3476%	163299	91154	1.8	1	3	.1003	9.1302E-08
29	10.610	4,4'-DDE	0.0349	0.8132%	313295	182249	1.7	1	3	.1052	1.1134E-07
36	11.675	Endosulfan II	0.0270	0.6287%	270811	141785	1.9	2	3	.1566	9.9585E-08
39	12.275	Endrin Aldehyde	0.0302	0.7032%	172997	90082	1.9	2	3	.1588	1.7436E-07
40	12.500	Endo. sulfate	0.0366	0.8537%	232283	122124	1.9	2	3	.1996	1.5764E-07
41	12.615		2.6402	61.5540%	26402	8273	3.2	2			1.0000E-04
42	12.725		0.5308	12.3758%	5308	2048	2.6	2			1.0000E-04
46	13.725	Methoxychlor	0.0011	0.0253%	8720	4078	2.1	1	3	.0902	1.2466E-07
47	13.835	Endrin Ketone	0.1022	2.3819%	234853	122611	1.9	1	3	.1634	4.3502E-07
51	15.955	DCB	0.0191	0.4447%	183068	75594	2.4	1	3	.1054	1.0420E-07

TOTAL AMOUNT = 4.2893

Areas, times, and heights stored in: 0:030C34.ATB
Data File = 0:030C34.PTS Printed on 05-12-1993 at 11:24:23
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 125 millivolts



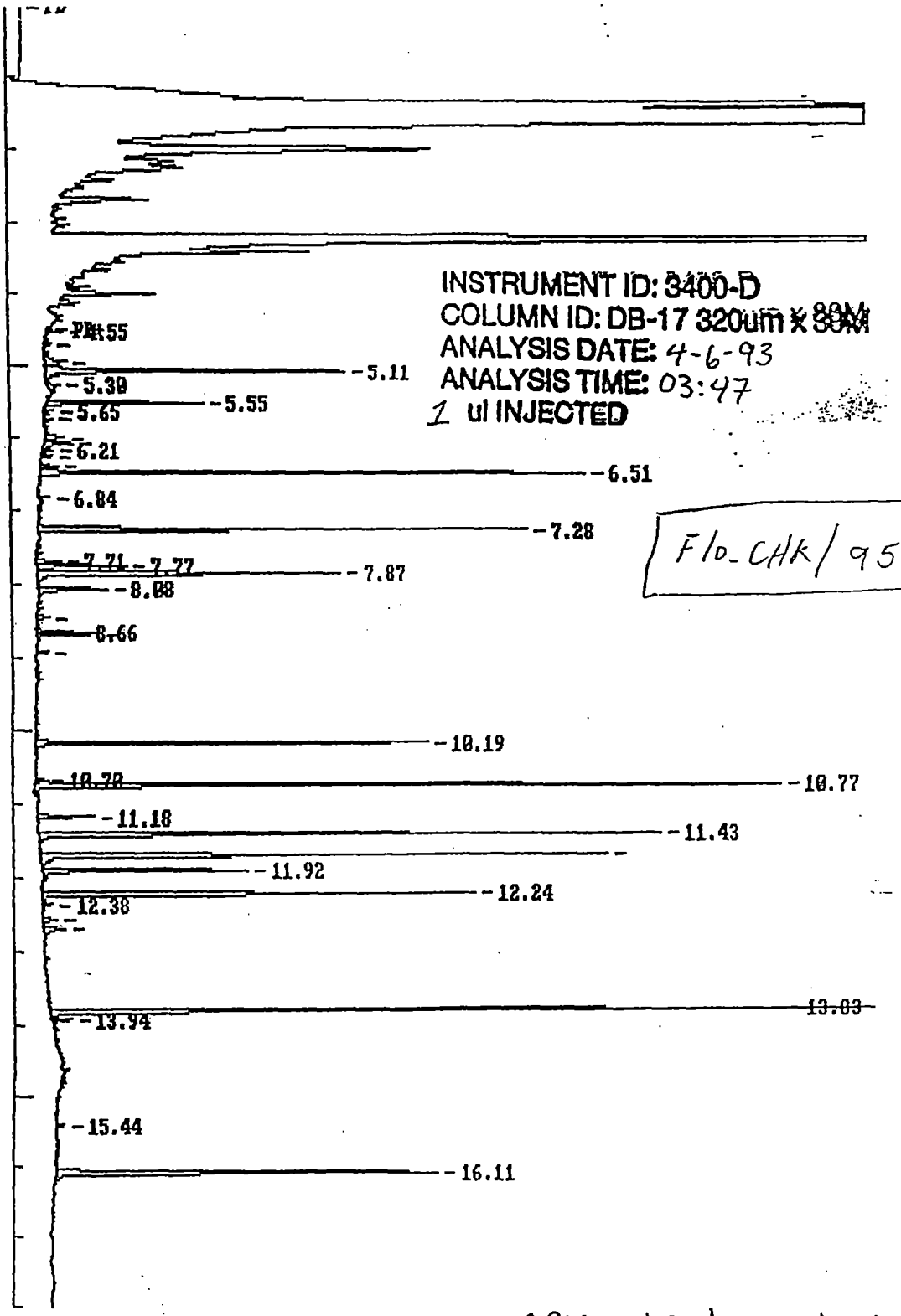
INSTRUMENT ID: 3400-C
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 4-6-93
ANALYSIS TIME: 03:47
1 ul INJECTED

FLD_CHK/952075

ORIGINALS Located at ENCOTE
3965 Research Park Drive, Ann Arbo
MI 48108

TOTAL AMOUNT = 27.0000

Areas, times, and heights stored in: 0:030D34.ATB
Data File = 0:030D34.PTS Printed on 05-12-1993 at 11:26:16
Start time: 0.00 min. Stop time: 18.00 min. Offset: 0 mv.
Full Range: 125 millivolts



Flo_CHK/952075

ORIGINALS Located at ENCOTEC
3965 Research Park Drive, Ann
Arbor MI 48108 1737

5-12-93 RMG

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

********** 05-12-1993 11:24:04 Version 5.1 **********

* Sample Name: FLO_CHK/952075,,; Data File: 0:030C34 *

* Date: 04-06-1993 03:47:11 Method: 0:030CB 05-12-1993 11:23:06 # 342 *

* Interface: 4 Cycle#: 34 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 5 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-C Column Type: DB-1701 30M x .32mm *

* Solvent Description: H2 HOLD UP=75sec@188 H2@14psi *

* Conditions: 110H.5to140@20/min to280H6 INJ=230 DET=300 1uLinj *

* Detector 0: ECD R1 AT4 Detector 1: ECD R1 AT4 *

* Misc. Information: 04/05/93,P; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 5000 One sample per 0.500 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	3.442		0.6234	0.2764%	6234	3000	2.1	1			1.0000E-04
5	3.750		1.1588	0.5139%	11588	4567	2.5	2			1.0000E-04
6	3.867		13.5281	5.9991%	135281	54417	2.5	2			1.0000E-04
7	4.108		6.9625	3.0876%	69625	36197	1.9	2			1.0000E-04
8	4.217		0.6526	0.2894%	6526	1951	3.3	2			1.0000E-04
11	4.483		0.8164	0.3620%	8164	2182	3.7	2			1.0000E-04
12	4.550		0.6453	0.2861%	6453	1791	3.6	2			1.0000E-04
13	4.650	TCX	1.6335	0.7244%	55719	28734	1.9	2	13	0	2.9318E-05
14	4.742		3.3950	1.5055%	33950	17227	2.0	2			1.0000E-04
15	4.933		1.8662	0.8276%	18662	3741	5.0	2			1.0000E-04
22	5.967		4.8064	2.1315%	48064	25619	1.9	2			1.0000E-04
24	6.258	alpha-BHC	9.9851	4.4280%	95095	55976	1.7	3	13	0	1.0500E-04
26	6.417		0.7601	0.3371%	7601	2923	2.6	2			1.0000E-04
27	6.583		0.6328	0.2806%	6328	1611	3.9	2			1.0000E-04
30	6.933		0.5009	0.2221%	5009	1393	3.6	2			1.0000E-04
31	6.983	gamma-BHC	7.3545	3.2614%	95200	57669	1.7	3	13	0	7.7254E-05
33	7.192		0.5866	0.2601%	5866	1226	4.8	2			1.0000E-04
34	7.342	Heptachlor	6.9476	3.0810%	84232	50322	1.7	2	13	0	8.2482E-05
35	7.417		1.1108	0.4926%	11108	4608	2.4	2			1.0000E-04
40	7.850		1.2481	0.5535%	12481	6061	2.1	2			1.0000E-04
43	8.283		3.0246	1.3413%	30246	15951	1.9	2			1.0000E-04
44	8.367	beta-BHC	0.4060	0.1801%	6743	3369	2.0	2	13	0	6.0215E-05
48	8.892		0.7017	0.3112%	7017	4179	1.7	1			1.0000E-04
52	9.475	Endosulfan I	5.9201	2.6253%	80641	44628	1.8	1	13	0	7.3413E-05
55	10.117	Dieldrin	21.3654	9.4746%	165326	92907	1.8	3	13	0	1.2923E-04
57	10.458	Endrin	15.4674	6.8591%	153003	84950	1.8	1	13	0	1.0109E-04
60	11.225	4,4'-DDD	15.3647	6.8136%	158772	75217	2.1	2	13	0	9.6772E-05
61	11.508	4,4'-DDT	10.7657	4.7741%	125230	67921	1.8	1	13	0	8.5967E-05
68	12.600	Methoxychlor	77.3182	34.2873%	286142	152422	1.9	3	13	0	2.7021E-04
74	14.033		0.5294	0.2348%	5294	393	13.5	2			1.0000E-04
80	14.717	DCB	9.4227	4.1786%	95443	50493	1.9	3	13	0	9.8726E-05

TOTAL AMOUNT = 225.5009

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

********** 05-12-1993 11:25:39 Version 5.1 **********

* Sample Name: FLO_CHK/952075,,,; Data File: O:030D34 *

* Date: 04-06-1993 03:47:11 Method: O:030DB 05-12-1993 11:23:30 # 320 *

* Interface: 5 Cycle#: 34 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-D Column Type: DB-17 30M x .32mm *

* Solvent Description: H2 HUP 75sec@188 H2 @ 14psi *

* Conditions: 110H.5to140@20/minto280 H6 INJ=230 DET=300 1uLinj *

* Detector 0: ECD ATT4R1 Detector 1: ECD ATT4R1 *

* Misc. Information: 04/05/93,C; *

****

Starting Delay: 0.00 Ending retention time: 18.00

Area reject: 2000 One sample per 0.500 sec.

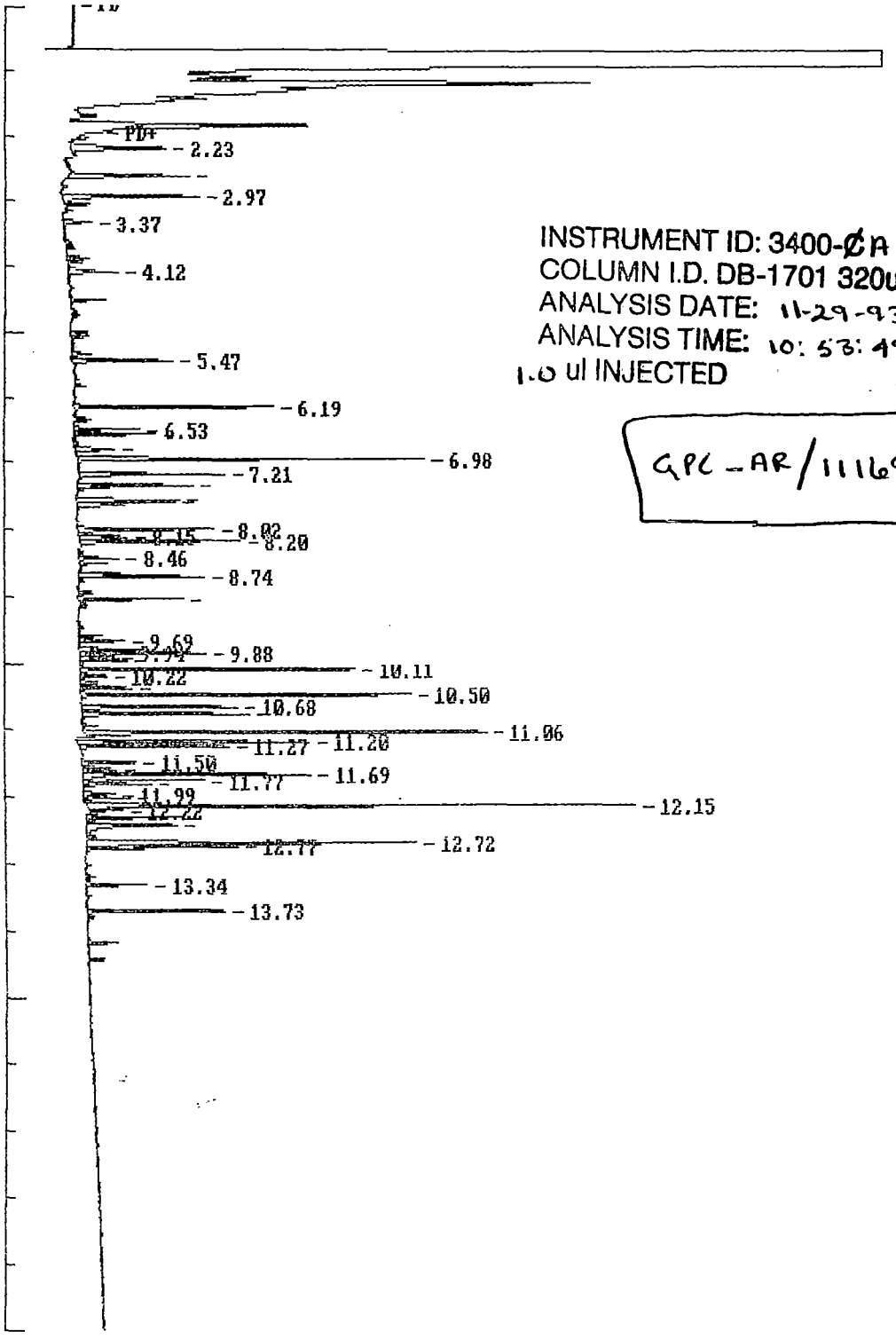
Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.550		0.4789	1.7295%	4789	2335	2.1	2			1.0000E-04
3	4.725		0.2648	0.9562%	2648	997	2.7	2			1.0000E-04
5	4.967		1.2515	4.5200%	12515	3168	4.0	2			1.0000E-04
6	5.108	TCX	0.0133	0.0481%	98219	44308	2.2	2	6	0	1.3549E-07
7	5.300		0.4514	1.6303%	4514	1607	2.8	1			1.0000E-04
8	5.550		4.1507	14.9908%	41508	23004	1.8	1			1.0000E-04
9	5.650		0.2544	0.9186%	2544	1423	1.8	2			1.0000E-04
11	5.767		0.2951	1.0656%	2951	1196	2.5	2			1.0000E-04
14	6.025		0.7275	2.6273%	7275	2782	2.6	2			1.0000E-04
15	6.108		0.9694	3.5012%	9694	4067	2.4	2			1.0000E-04
17	6.208		0.3933	1.4204%	3933	1544	2.5	2			1.0000E-04
18	6.283		0.3076	1.1111%	3076	1520	2.0	2			1.0000E-04
19	6.425		0.5478	1.9786%	5478	2600	2.1	2			1.0000E-04
20	6.508	alpha-BHC	0.0100	0.0361%	136665	80774	1.7	2	6	0	7.3132E-08
22	6.842		0.2130	0.7695%	2131	1369	1.6	1			1.0000E-04
25	7.275	gamma-BHC	0.0113	0.0410%	123504	72427	1.7	1	6	0	9.1880E-08
28	7.708		0.7004	2.5297%	7004	3441	2.0	2			1.0000E-04
29	7.767		2.6229	9.4728%	26229	13220	2.0	2			1.0000E-04
30	7.867	Heptachlor	0.0099	0.0358%	88884	44777	2.0	2	6	0	1.1145E-07
31	8.075		2.1953	7.9284%	21953	10121	2.2	1			1.0000E-04
34	8.467	Aldrin	0.0004	0.0013%	4491	1735	2.6	1	6	-.1599	8.1798E-08
36	8.658		0.9270	3.3480%	9270	4935	1.9	2			1.0000E-04
37	8.692		1.9093	6.8958%	19093	8887	2.1	2			1.0000E-04
38	8.942		0.2820	1.0185%	2820	1599	1.8	1			1.0000E-04
46	10.192	Endosulfan I	0.0122	0.0440%	109477	58077	1.9	1	6	.0293	1.1134E-07
47	10.700	4,4'-DDE	0.0003	0.0009%	2346	1277	1.8	2	6	0	1.1134E-07
48	10.767	Dieldrin	0.0213	0.0768%	213257	109431	1.9	2	6	0	9.9731E-08
50	11.183		1.5695	5.6686%	15696	8192	1.9	1			1.0000E-04
51	11.425	Endrin	0.0218	0.0789%	180030	91839	2.0	1	6	0	1.2132E-07
53	11.708	4,4'-DDD	0.0221	0.0797%	163761	83865	2.0	2	6	0	1.3477E-07
54	11.917		5.8727	21.2098%	58727	30111	2.0	2			1.0000E-04
55	12.242	4,4'-DDT	0.0189	0.0684%	116314	64222	1.8	2	6	0	1.6277E-07
56	12.375	Endrin ald.	0.0005	0.0017%	2703	1362	2.0	2	6	0	1.7436E-07
57	12.583	Endo. sulfate	0.0008	0.0029%	5044	1951	2.6	1	6	.0630	1.5764E-07
58	12.708		0.8330	3.0083%	8330	3064	2.7	1			1.0000E-04
62	13.833	Methoxychlor	0.0333	0.1202%	266950	144700	1.8	2	6	0	1.2466E-07
63	13.942	Endrin Ketone	0.0032	0.0116%	7355	2876	2.6	2	6	0	4.3502E-07

1720

Data File = 0:076a56.PTS Printed on 12-01-1993 at 14:45:29
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 30 millivolts



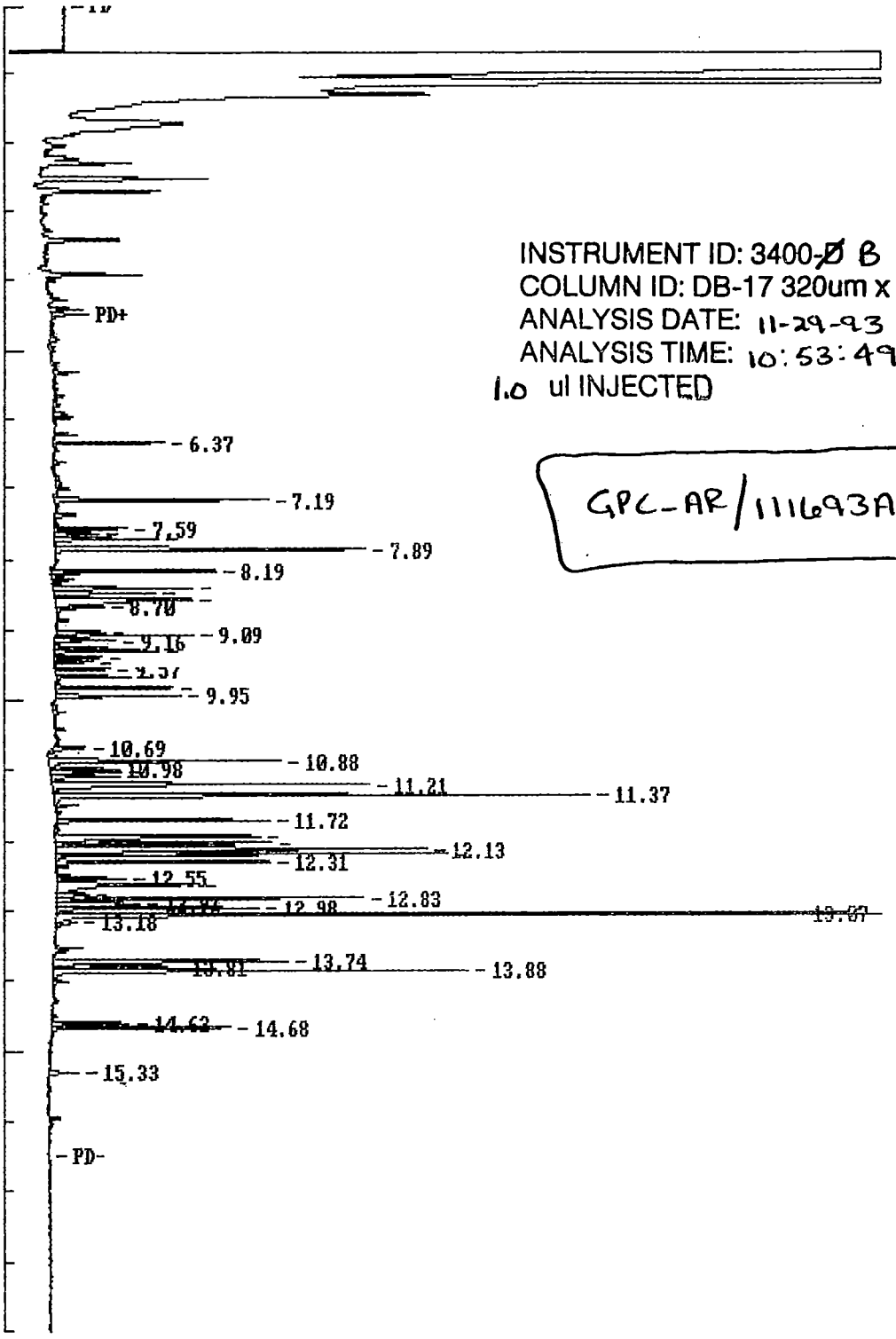
INSTRUMENT ID: 3400-ØA
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-29-93
ANALYSIS TIME: 10:53:49
1.0 ul INJECTED

GPC-AR/111693A

12-01-93

1740

Areas, times, and heights stored in: 0:076B56.ATB
Data File = 0:076B56.PTS Printed on 12-01-1993 at 14:15:00
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 50 millivolts



INSTRUMENT ID: 3400-~~Ø~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-29-93
ANALYSIS TIME: 10:53:49
1.0 ul INJECTED

GPC-AR/111693A

12-01-93

1741

++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-01-1993 14:12:33 Version 5.1 **********

* Sample Name: GPC_AR/111693A,,; Data File: 0:076A56 *

* Date: 11-29-1993 10:53:49 Method: 0:076AB 12-01-1993 14:10:58 # 865 *

* Interface: 1 Cycle#: 56 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
6	5.465		0.5792	1.5879%	5792	3411	1.7	1			1.0000E-04
9	6.185		1.1057	3.0314%	11057	6813	1.6	1			1.0000E-04
11	6.525		0.3540	0.9705%	3540	2239	1.6	2			1.0000E-04
12	6.600		0.4999	1.3705%	4999	2807	1.8	2			1.0000E-04
14	6.975		2.3422	6.4213%	23422	11996	2.0	1			1.0000E-04
15	7.210		0.9830	2.6950%	9830	5026	2.0	1			1.0000E-04
16	7.380		0.6302	1.7279%	6302	3953	1.6	2			1.0000E-04
18	7.590	Aldrin	0.4473	1.2264%	6134	3507	1.7	2	0	.1319	7.2922E-05
19	7.625		0.9485	2.6005%	9485	3357	2.8	2			1.0000E-04
20	8.020		1.1267	3.0889%	11267	4686	2.4	1			1.0000E-04
22	8.200		1.2690	3.4790%	12690	5500	2.3	2			1.0000E-04
27	8.735		0.7289	1.9984%	7289	4311	1.7	2			1.0000E-04
30	9.060		0.5728	1.5705%	5728	3527	1.6	1			1.0000E-04
35	9.820		0.3670	1.0063%	3670	2240	1.6	2			1.0000E-04
36	9.875	Dieldrin	0.9601	2.6322%	7429	4333	1.7	2	0	.1521	1.2923E-04
39	10.110		1.6465	4.5140%	16465	9449	1.7	2			1.0000E-04
43	10.495		1.9717	5.4058%	19718	11369	1.7	1			1.0000E-04
44	10.680		1.0220	2.8020%	10220	5338	1.9	1			1.0000E-04
45	10.780		1.0528	2.8863%	10528	5753	1.8	1			1.0000E-04
47	11.055		2.8894	7.9217%	28894	13819	2.1	1			1.0000E-04
48	11.200		1.4211	3.8962%	14211	7987	1.8	2			1.0000E-04
49	11.265	4,4'-DDT	0.8556	2.3457%	9952	5117	1.9	2	0	.1333	8.5967E-05
53	11.685	Endrin Aldehyde	1.3336	3.6563%	14381	7827	1.8	2	0	.3004	9.2734E-05
54	11.765		0.7325	2.0081%	7325	4146	1.8	2			1.0000E-04
55	11.830		0.4186	1.1476%	4186	2331	1.8	2			1.0000E-04
58	12.150	Endo. sulfate	3.7097	10.1707%	33240	18939	1.8	2	0	-.2463	1.1160E-04
60	12.325	Methoxychlor	1.4261	3.9099%	5278	3260	1.6	2	0	0	2.7021E-04
62	12.445		0.8638	2.3683%	8638	3085	2.8	2			1.0000E-04
64	12.715		2.5107	6.8835%	25107	11368	2.2	2			1.0000E-04
65	12.770	Endrin Ketone	0.4633	1.2703%	10353	5204	2.0	2	0	-.2343	4.4753E-05
68	13.335		0.3685	1.0102%	3685	2093	1.8	1			1.0000E-04
70	13.730		0.8742	2.3967%	8742	4751	1.8	2			1.0000E-04

TOTAL AMOUNT = 36.4748

EXTERNAL STANDARD TABLE

********** 12-01-1993 14:14:10 Version 5.1 **********

* Sample Name: GPC_AR/111693A,,; Data File: 0:076B56 *
* Date: 11-29-1993 10:53:49 Method: 0:076BB 11-30-1993 15:14:53 # 890 *
* Interface: 2 Cycle#: 56 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
14	6.370		1.0295	1.4659%	10295	6286	1.6	1			1.0000E-04
19	7.185	gamma-BHC	0.0021	0.0030%	22750	12159	1.9	1	0	-.2083	9.1880E-08
22	7.590		0.6964	0.9916%	6964	4109	1.7	2			1.0000E-04
23	7.665		0.4643	0.6611%	4643	2531	1.8	2			1.0000E-04
24	7.735		1.2404	1.7662%	12404	5875	2.1	2			1.0000E-04
25	7.885		4.7539	6.7693%	47539	17766	2.7	1			1.0000E-04
26	8.185		1.6728	2.3819%	16728	9393	1.8	2			1.0000E-04
30	8.430	Aldrin	0.0011	0.0016%	13948	7908	1.8	2	0	.4767	8.1798E-08
31	8.495		0.9964	1.4188%	9964	5761	1.7	2			1.0000E-04
32	8.585		2.7986	3.9851%	27986	7772	3.6	2			1.0000E-04
33	8.695		0.5977	0.8510%	5977	2774	2.2	2			1.0000E-04
35	9.045		0.4809	0.6847%	4809	2824	1.7	2			1.0000E-04
36	9.090		1.3397	1.9077%	13397	7853	1.7	2			1.0000E-04
37	9.160		0.5886	0.8382%	5886	3469	1.7	2			1.0000E-04
38	9.270		0.5730	0.8159%	5730	2984	1.9	2			1.0000E-04
39	9.315		1.0458	1.4892%	10458	5899	1.8	2			1.0000E-04
40	9.400		0.4562	0.6496%	4562	2698	1.7	2			1.0000E-04
41	9.465	Hept. epoxide	0.0004	0.0006%	3826	2170	1.8	2	0	-.1582	1.0548E-07
42	9.570		0.5451	0.7762%	5451	3117	1.7	2			1.0000E-04
43	9.675		0.7330	1.0437%	7330	4292	1.7	1			1.0000E-04
44	9.830		1.1993	1.7078%	11993	6633	1.8	1			1.0000E-04
45	9.950		1.3051	1.8584%	13051	7106	1.8	1			1.0000E-04
50	10.690	Dieldrin	0.0005	0.0007%	4898	1805	2.7	1	0	0	9.9731E-08
52	10.880		2.7307	3.8884%	27307	13179	2.1	2			1.0000E-04
53	10.980		0.5406	0.7698%	5406	2995	1.8	2			1.0000E-04
54	11.025		1.2557	1.7881%	12557	4021	3.1	2			1.0000E-04
55	11.100		0.8319	1.1845%	8319	3920	2.1	2			1.0000E-04
56	11.205		4.1922	5.9694%	41922	18185	2.3	2			1.0000E-04
57	11.365	Endrin	0.0069	0.0099%	57122	30854	1.9	2	0	.2204	1.2132E-07
59	11.720	Endosulfan II	0.0022	0.0032%	22232	12176	1.8	1	0	.3424	9.9585E-08
61	11.950		2.9620	4.2177%	29620	11646	2.5	2			1.0000E-04
62	12.035		2.5110	3.5755%	25110	12340	2.0	2			1.0000E-04
63	12.130	4,4'-DDT	0.0084	0.0120%	51704	21368	2.4	2	0	-.2467	1.6277E-07
64	12.195		4.2435	6.0426%	42435	22563	1.9	2			1.0000E-04
65	12.310	Endrin Aldehyde	0.0042	0.0060%	24056	12213	2.0	2	0	.2443	1.7436E-07
68	12.545	Endo. sulfate	0.0011	0.0016%	7170	3943	1.8	2	0	.3600	1.5764E-07
69	12.630		2.7170	3.8689%	27170	7961	3.4	2			1.0000E-04
70	12.775		0.3812	0.5427%	3812	1841	2.1	2			1.0000E-04
71	12.830		3.2491	4.6266%	32491	17603	1.8	2			1.0000E-04
72	12.910		1.3866	1.9745%	13866	4734	2.9	2			1.0000E-04
73	12.975		2.5742	3.6655%	25742	11518	2.2	2			1.0000E-04

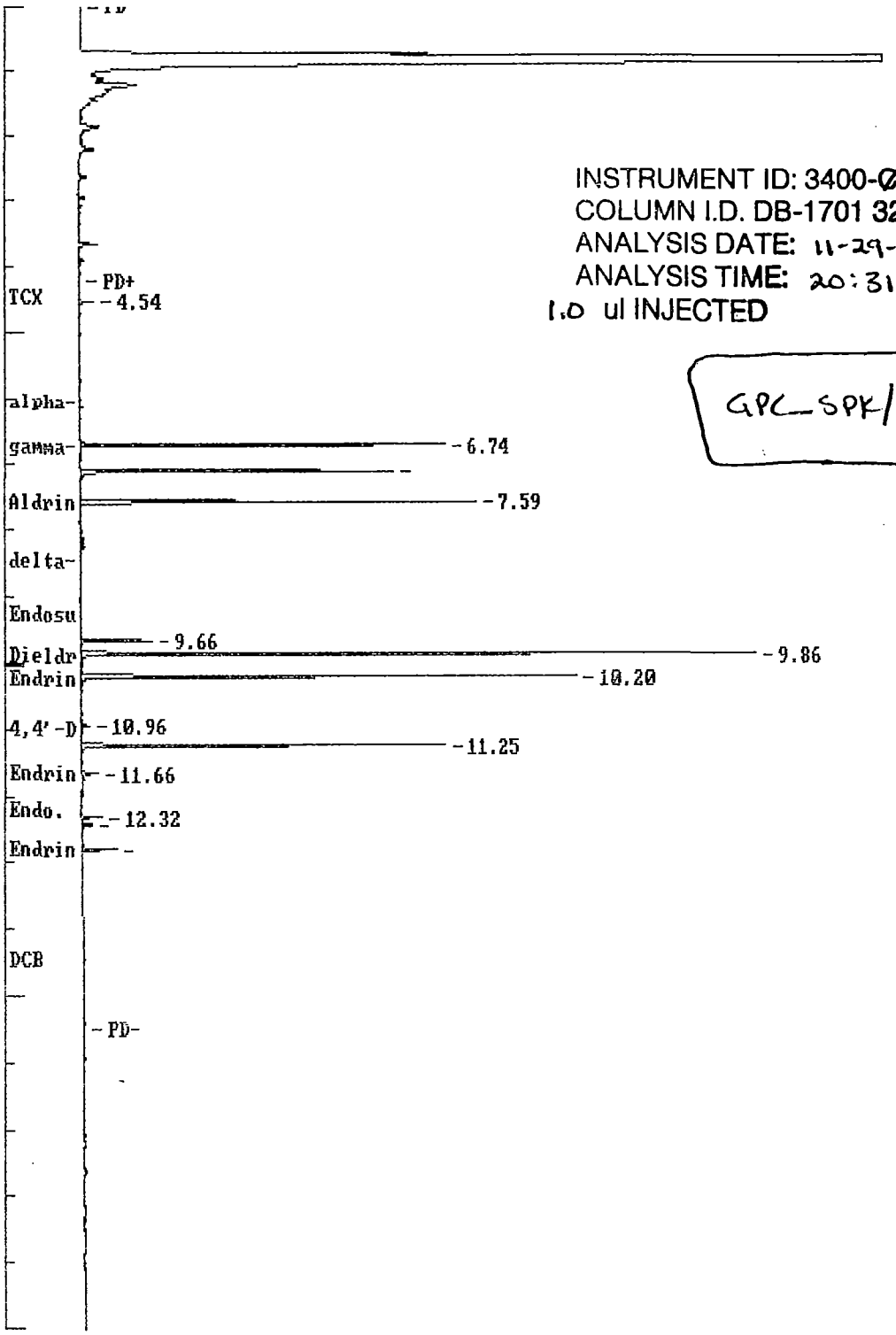
1743

74	13.070		9.9784	14.2087%	99784	52210	1.9	3			1.0000E-04
75	13.180		0.3653	0.5202%	3653	1096	3.3	4			1.0000E-04
77	13.735	Methoxychlor	0.0042	0.0060%	33968	13372	2.5	2	0	0	1.2466E-07
78	13.810	Endrin Ketone	0.0055	0.0078%	12620	6411	2.0	2	0	-.2167	4.3502E-07
79	13.875		4.6770	6.6598%	46770	23845	2.0	2			1.0000E-04
82	14.620		0.8091	1.1520%	8091	4409	1.8	2			1.0000E-04
83	14.680		1.9140	2.7254%	19140	10116	1.9	2			1.0000E-04
84	15.325		0.3547	0.5050%	3547	1699	2.1	1			1.0000E-04

TOTAL AMOUNT = 70.2274

072B56
P.2
12-01-93
DB

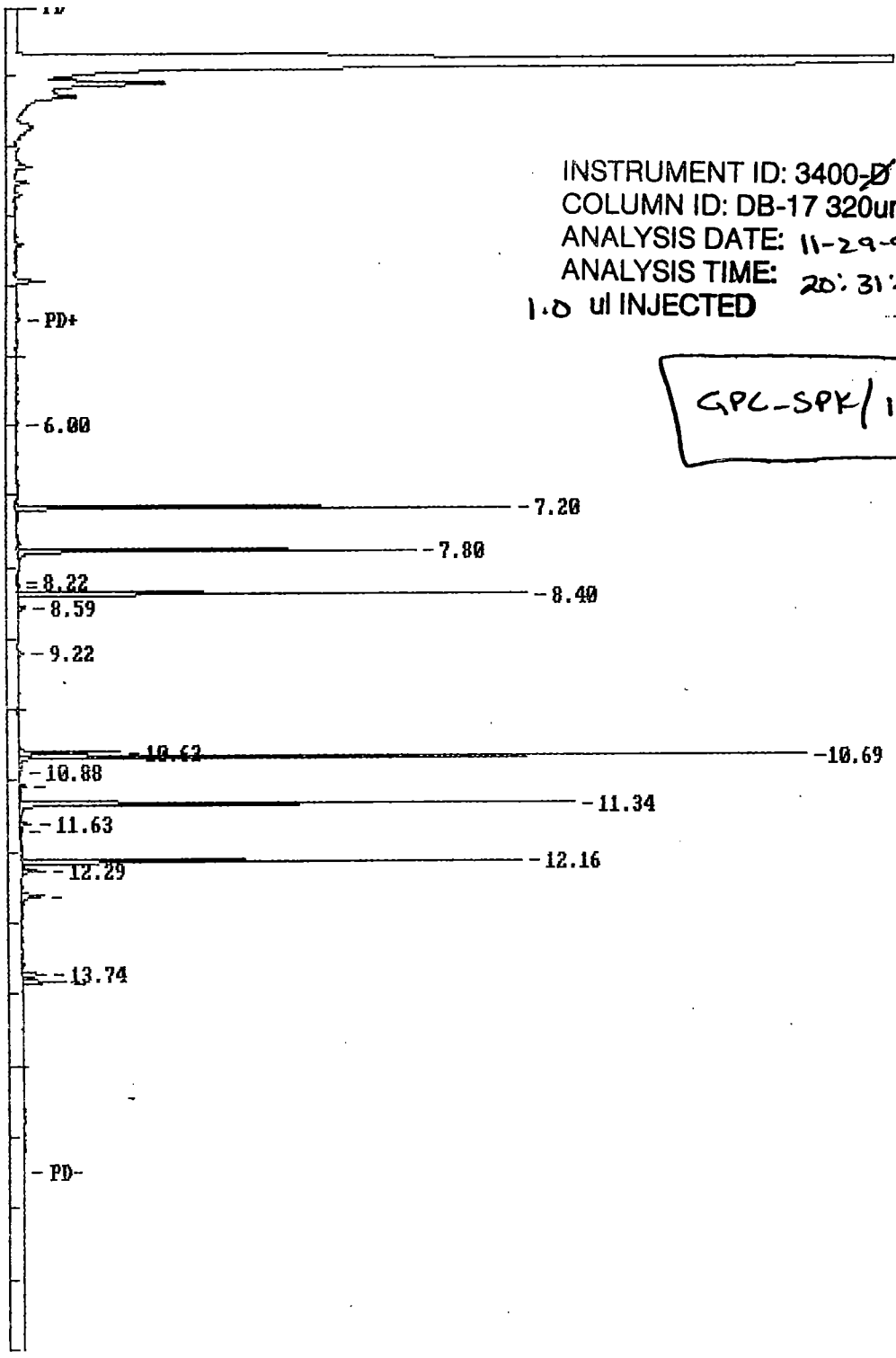
Areas, times, and heights stored in: 0:076A77.ATB
Data File = 0:076A77.PTS Printed on 12-01-1993 at 14:41:30
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 300 millivolts



12-01-93

1745

Areas, times, and heights stored in: O:076B77.ATB
Data File = O:076B77.PTS Printed on 12-01-1993 at 14:42:41
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 450 millivolts



INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-29-93
ANALYSIS TIME: 20:31:59
1.0 ul INJECTED

GPC-SPK/1116935

12-01-93

1746

EXTERNAL STANDARD TABLE

********** 12-01-1993 14:41:23 Version 5.1 **********

* Sample Name: GPC_SPK/1116938,,; Data File: 0:076A77 *

* Date: 11-29-1993 20:31:55 Method: 0:076AB 12-01-1993 14:40:47 # 868 *

* Interface: 1 Cycle#: 77 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.535		0.8332	0.4954%	8332	5217	1.6	1			1.0000E-04
8	6.735	gamma-BHC	16.2797	9.6799%	210729	135198	1.6	1	0	0	7.7254E-05
9	7.130	Heptachlor	15.9565	9.4878%	193453	116250	1.7	1	0	0	8.2482E-05
11	7.585	Aldrin	17.7985	10.5830%	244076	147217	1.7	1	0	0	7.2922E-05
25	9.660	4,4'-DDE	5.0177	2.9835%	45451	26345	1.7	1	0	0	1.1040E-04
26	9.860	Dieldrin	54.0676	32.1487%	418377	250503	1.7	3	0	0	1.2923E-04
29	10.200	Endrin	31.8374	18.9306%	314934	184814	1.7	2	0	0	1.0109E-04
34	10.955	4,4'-DDD	0.4563	0.2713%	4716	2918	1.6	2	0	-.0456	9.6772E-05
35	11.245	4,4'-DDT	19.4568	11.5691%	226328	135021	1.7	1	0	0	8.5967E-05
37	11.660	Endrin Aldehyde	1.4007	0.8329%	15105	5778	2.6	1	0	0	9.2734E-05
39	12.320	Methoxychlor	3.2031	1.9046%	11854	7478	1.6	1	0	0	2.7021E-04
40	12.435		0.9144	0.5437%	9144	3714	2.5	1			1.0000E-04
42	12.805	Endrin Ketone	0.9580	0.5696%	21406	12824	1.7	2	0	0	4.4753E-05

TOTAL AMOUNT = 168.1799

EXTERNAL STANDARD TABLE

```
******************** 12-01-1993 14:42:25 Version 5.1 ***********************
* Sample Name: GPC_SPK/111693S,,;                  Data File: 0:076B77      *
* Date: 11-29-1993 20:31:59 Method: 0:076BB  12-01-1993 14:41:02  #  893   *
* Interface: 2   Cycle#:  77   Operator BG  Channel#: 0    Vial#: N.A.      *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250               *
*****************************************************************************
* Instrument Type: 3400-B                  Column Type: DB-17 .32mm x 30M   *
*              Solvent Description: carrier gas = H2; make-up = N2          *
* Conditions:  110H.5to140@20/min to280@11/minH9 INJ=210 DET=300            *
*            Detector 0: ECD Range1          Detector 1: ECD Range1         *
* Misc. Information: 11/22/93,C,;                                           *
*****************************************************************************
Starting Delay:    0.00                    Ending retention time:    19.00
Area reject:      3500                     One sample per   0.300 sec.
Amount injected:        1.00               Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
10	6.000		0.4151	5.0181%	4151	1525	2.7	1			1.0000E-04
16	7.200	gamma-BHC	0.0387	0.4681%	421421	252914	1.7	2	0	0	9.1880E-08
19	7.795	Heptachlor	0.0424	0.5121%	380075	202716	1.9	1	0	0	1.1145E-07
20	8.215		0.4420	5.3431%	4420	987	4.5	2			1.0000E-04
21	8.285		0.3817	4.6138%	3817	976	3.9	2			1.0000E-04
22	8.400	Aldrin	0.0378	0.4575%	462648	260418	1.8	2	0	.1191	8.1798E-08
23	8.585		1.0396	12.5668%	10396	3856	2.7	1			1.0000E-04
24	9.220		0.6105	7.3795%	6105	3098	2.0	1			1.0000E-04
36	10.620	4,4'-DDE	0.0098	0.1184%	87998	51208	1.7	2	0	0	1.1134E-07
37	10.685	Dieldrin	0.0729	0.8817%	731299	401314	1.8	3	0	0	9.9731E-08
40	10.880		0.4376	5.2895%	4376	1193	3.7	2			1.0000E-04
42	11.095		0.7386	8.9291%	7386	3543	2.1	2			1.0000E-04
43	11.340	Endrin	0.0670	0.8095%	551991	283181	1.9	2	0	0	1.2132E-07
44	11.630	4,4'-DDD	0.0016	0.0189%	11602	5758	2.0	2	0	0	1.3477E-07
45	11.710	Endosulfan II	0.0004	0.0043%	3568	931	3.8	2	0	.2568	9.9585E-08
48	12.155	4,4'-DDT	0.0727	0.8785%	446473	255117	1.8	2	0	0	1.6277E-07
49	12.285	Endrin Aldehyde	0.0040	0.0480%	22750	11535	2.0	2	0	0	1.7436E-07
51	12.625		3.8387	46.4038%	38387	11330	3.4	3			1.0000E-04
57	13.740	Methoxychlor	0.0034	0.0416%	27621	11549	2.4	2	0	0	1.2466E-07
58	13.845	Endrin Ketone	0.0180	0.2179%	41438	21895	1.9	2	0	.0361	4.3502E-07

TOTAL AMOUNT = 8.2723

11/16/93

EPA RAS c# 21170 SDG: EXQ02
EPA RAS c# 21244 SDG: HP076
EPA RAS c# 21107 SDG: CNN38
EPA RAS c# 21141 SDG: DFR57

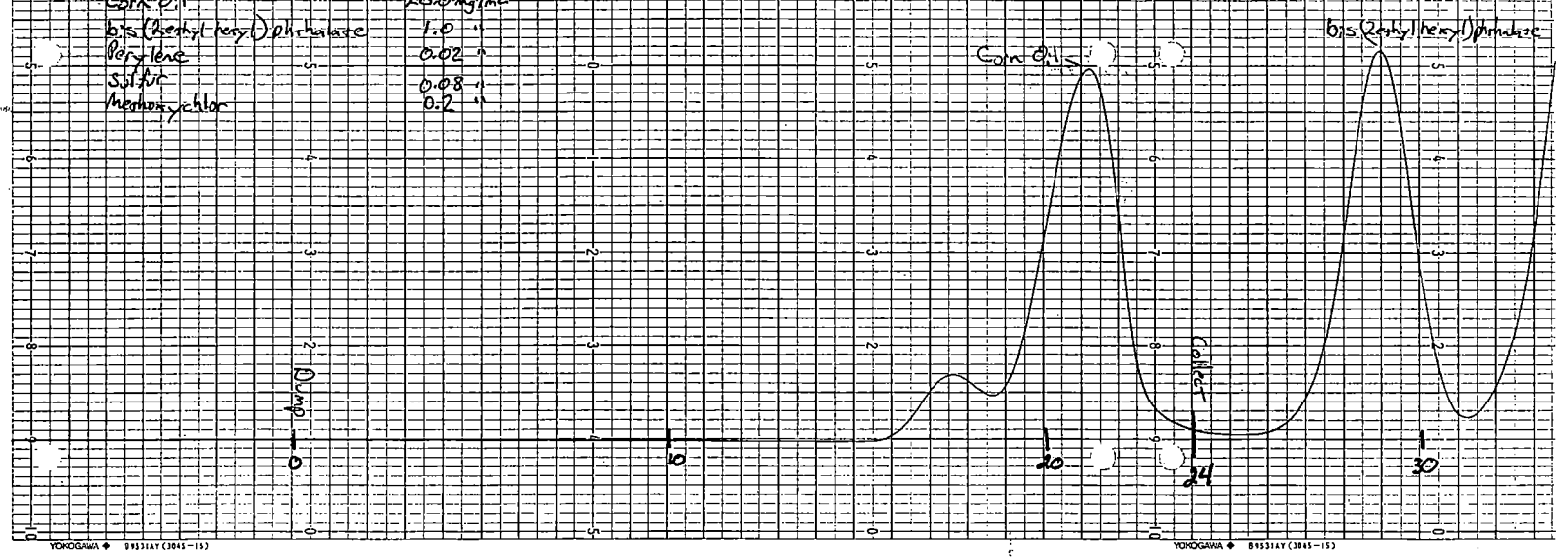
Original Located:
3965 Research Pk Dr.
Ann Arbor MI 48108
Encore Building II CLP Organic Extractions Lab

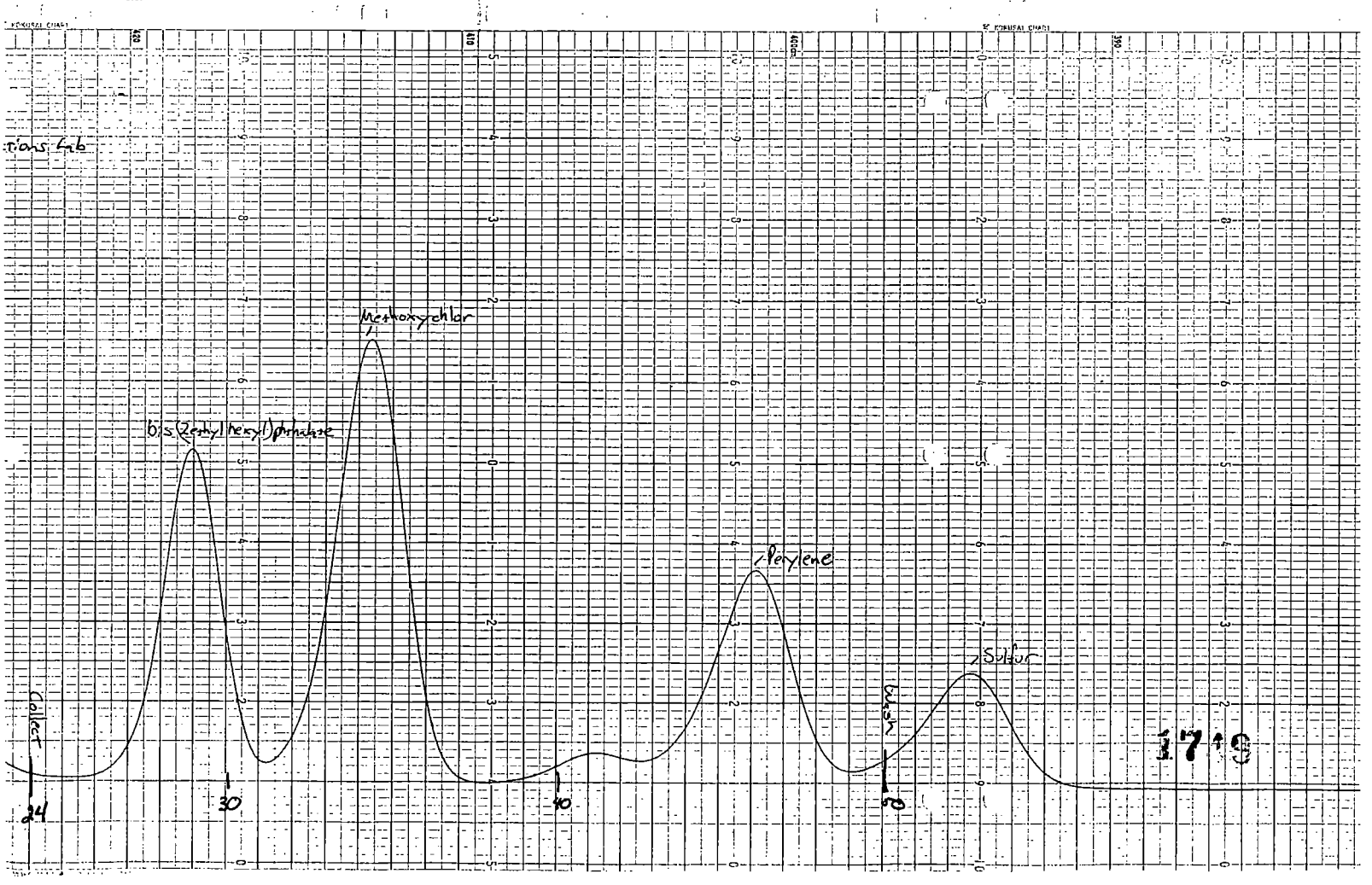
GPC Calibration Check:

Flow rate	5.0 ml/min
UV Detector	254 nm
Chart Speed	1.0 cm/min
Span	200 mV
Absorbance	2.0
DCLW	24-50-90
operator	DJM

Calibration Standard:

Corn Oil	250 mg/ml
bis(2ethyl hexyl)phthalate	1.0 "
Perylene	0.02 "
Sulfur	0.08 "
Methoxychlor	0.2 "



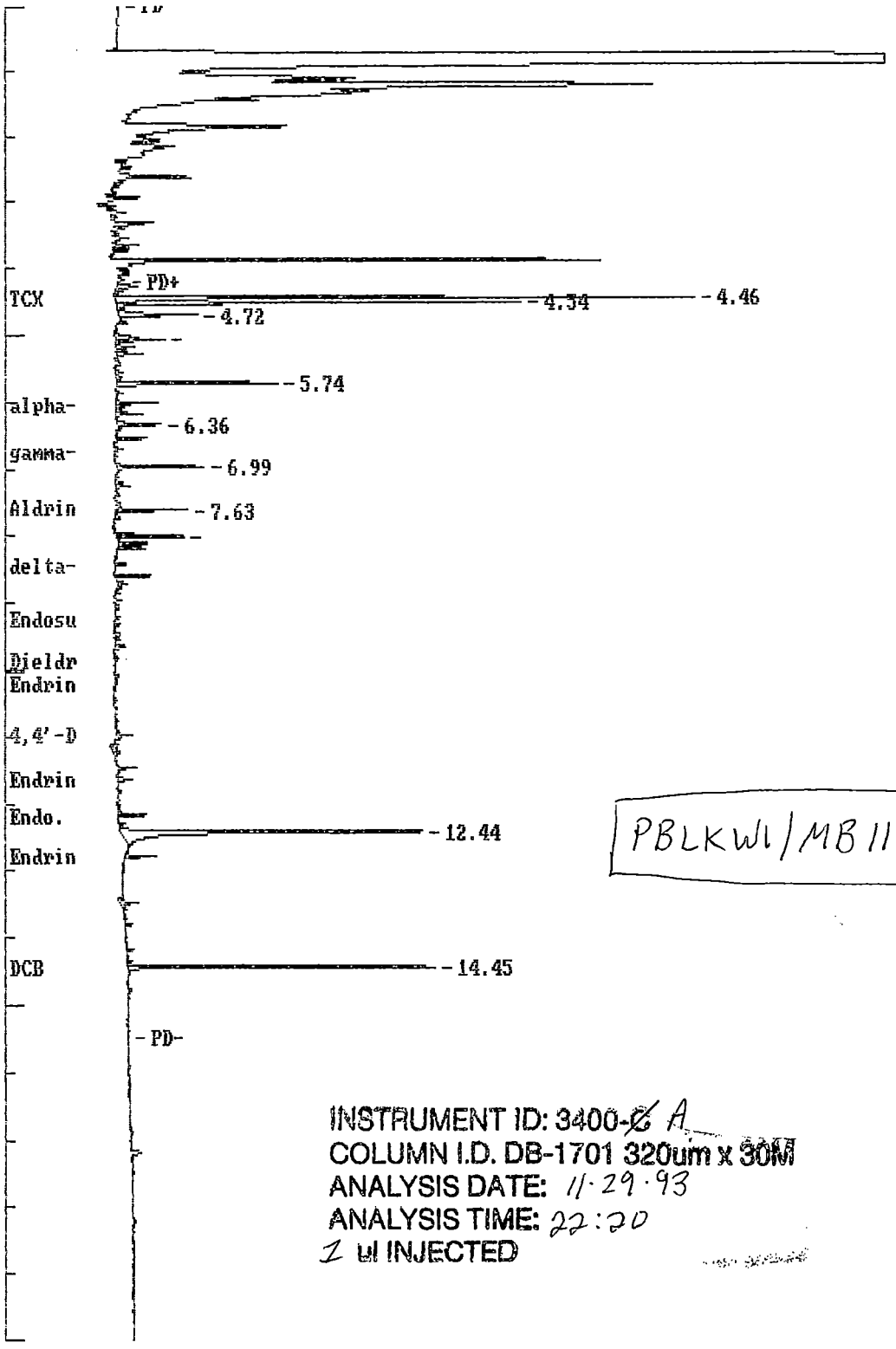


1749

V PESTICIDE RAW QC DATA

CASE # 21170
SDG # EXQ02

Areas, times, and heights stored in: O:076A81.ATB
Data File = O:076A81.PTS Printed on 11-30-1993 at 10:54:08
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 40 millivolts



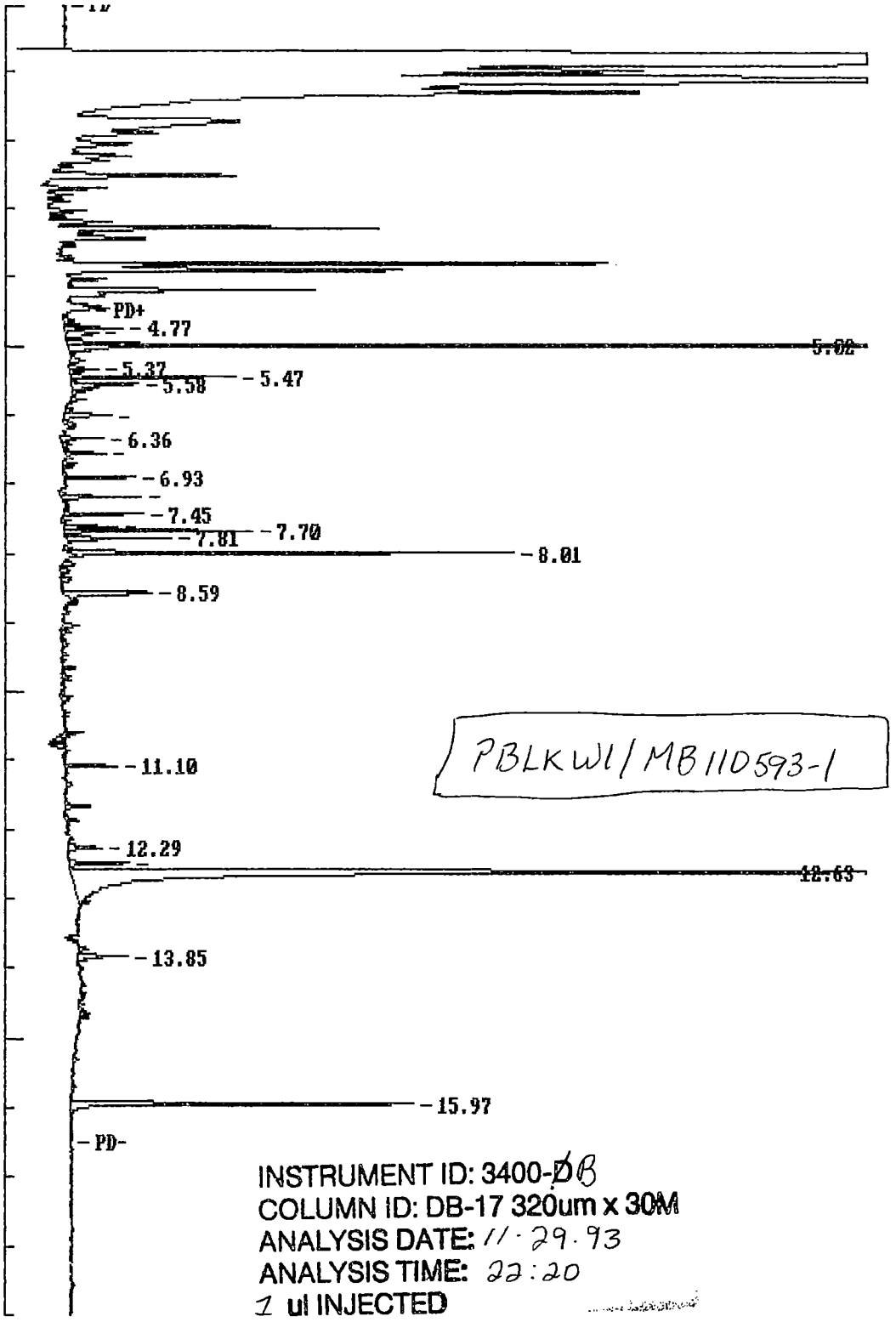
PBLKW1/MB110593-1

INSTRUMENT ID: 3400-~~C~~ A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11·29·93
ANALYSIS TIME: 22:20
1 ul INJECTED

11·30·93
BYG

1752

Areas, times, and heights stored in: 0:076B81.ATB
Data File = 0:076B81.PTS Printed on 11-30-1993 at 12:12:54
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 50 millivolts



PBLKW1/MB110593-1

INSTRUMENT ID: 3400-DB
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11·29·93
ANALYSIS TIME: 22:20
1 ul INJECTED

11.30.93
BMG

++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-30-1993 10:54:03 Version 5.1 **********

* Sample Name: PBLKW1/MB110593-1,,; Data File: O:076A81 *

* Date: 11-29-1993 22:20:06 Method: O:076AB 11-30-1993 10:37:36 # 862 *

* Interface: 1 Cycle#: 81 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	4.460	TCX	1.5261	8.9070%	52052	28513	1.8	2	3	0	2.9318E-05
4	4.535		3.4171	19.9441%	34171	19978	1.7	2			1.0000E-04
5	4.715		0.8775	5.1217%	8775	3797	2.3	2			1.0000E-04
8	5.090		0.4813	2.8092%	4813	2400	2.0	2			1.0000E-04
13	5.740		1.3830	8.0718%	13830	7813	1.8	1			1.0000E-04
18	6.355		0.4372	2.5521%	4373	2117	2.1	1			1.0000E-04
22	6.985		0.8143	4.7525%	8143	4232	1.9	1			1.0000E-04
26	7.630		0.5961	3.4791%	5961	3483	1.7	2			1.0000E-04
30	8.030	beta-BHC Conf.	0.3241	1.8917%	5382	3271	1.6	2	3	-.4956	6.0215E-05
57	12.435		4.5890	26.7842%	45890	14826	3.1	1			1.0000E-04
63	14.450	DCB	2.6876	15.6865%	27223	15156	1.8	2	3	0	9.8726E-05

TOTAL AMOUNT = 17.1333

11.30.93
BMG

++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-30-1993 12:12:36 Version 5.1 **********

* Sample Name: PBLKW1/MB110593-1,,; Data File: 0:076B81 *

* Date: 11-29-1993 22:20:11 Method: 0:076BB 11-30-1993 11:14:42 # 886 *

* Interface: 2 Cycle#: 81 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00

Area reject: 3500 One sample per 0.300 sec.

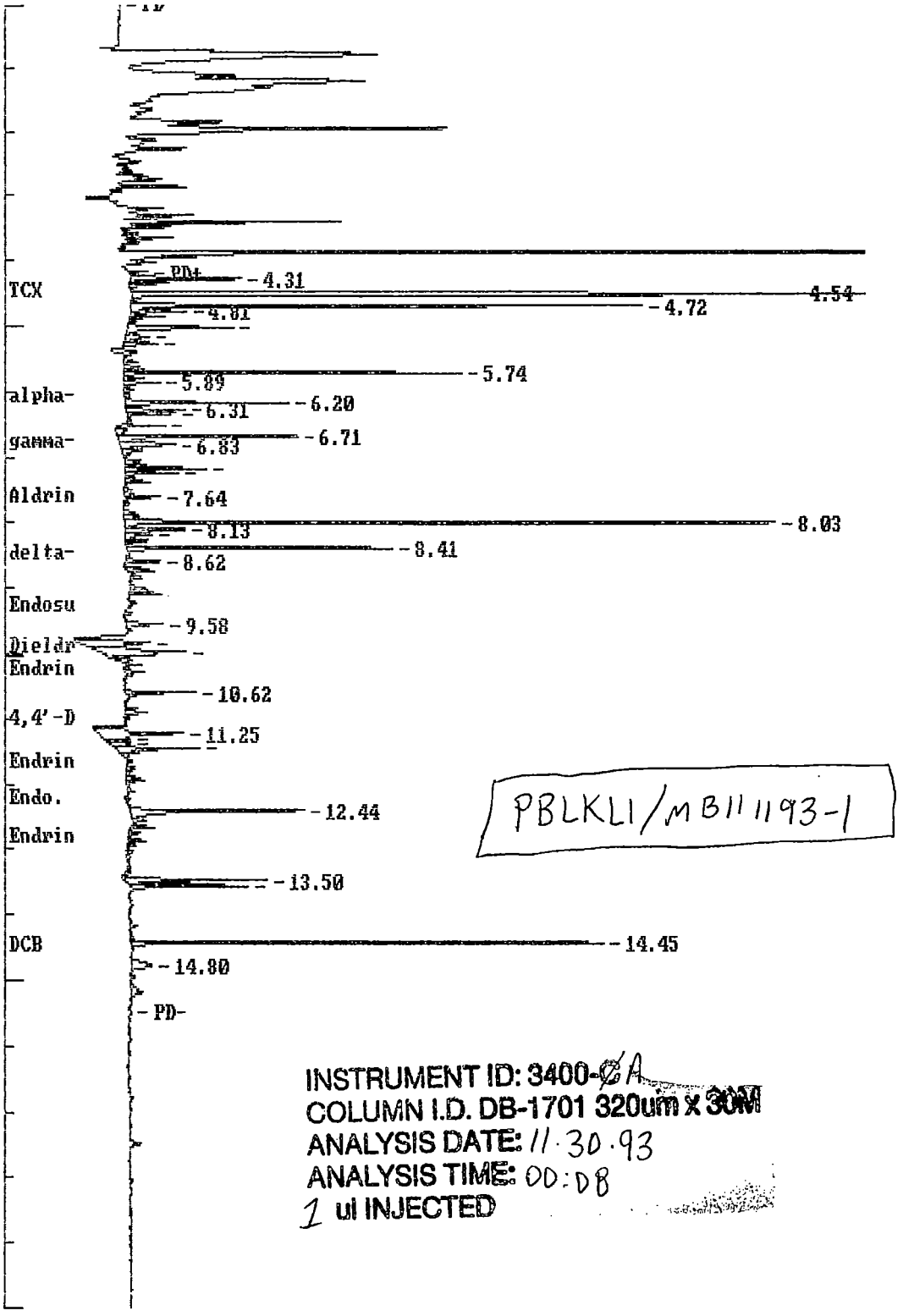
Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	4.765		0.6839	1.6955%	6839	3387	2.0	2			1.0000E-04
4	4.835		0.7119	1.7647%	7119	1922	3.7	2			1.0000E-04
5	4.970		0.7192	1.7830%	7192	4192	1.7	2			1.0000E-04
6	5.015	TCX	0.0137	0.0339%	101044	54855	1.8	3	6	0	1.3549E-07
10	5.365		0.3648	0.9042%	3648	1681	2.2	2			1.0000E-04
11	5.470		1.5604	3.8682%	15604	9537	1.6	2			1.0000E-04
12	5.575		1.0941	2.7122%	10941	3921	2.8	2			1.0000E-04
16	6.025		0.9019	2.2358%	9019	2757	3.3	2			1.0000E-04
18	6.355		0.4825	1.1961%	4825	2523	1.9	2			1.0000E-04
21	6.575		0.4132	1.0244%	4132	2334	1.8	1			1.0000E-04
25	6.930		0.6848	1.6976%	6848	4146	1.7	2			1.0000E-04
27	7.205	gamma-BHC	0.0008	0.0020%	8733	4636	1.9	2	6	.1692	9.1880E-08
28	7.450		0.7634	1.8925%	7634	4711	1.6	1			1.0000E-04
30	7.635		0.5767	1.4296%	5767	3124	1.8	2			1.0000E-04
31	7.695		2.0155	4.9963%	20155	10915	1.8	2			1.0000E-04
32	7.805	Heptachlor	0.0012	0.0029%	10495	6049	1.7	1	6	.1638	1.1145E-07
34	8.010		4.5048	11.1672%	45048	25831	1.7	1			1.0000E-04
39	8.585		1.5809	3.9190%	15809	4989	3.2	1			1.0000E-04
58	11.095		0.5502	1.3640%	5502	3113	1.8	2			1.0000E-04
63	12.285	Endrin Aldehyde	0.0009	0.0022%	5063	1985	2.6	1	6	.1404	1.7436E-07
64	12.500	Endo. sulfate	0.0013	0.0032%	8084	3538	2.3	1	6	0	1.5764E-07
65	12.625		22.7056	56.2865%	227056	52552	4.3	3			1.0000E-04
70	13.845	Endrin Ketone	0.0025	0.0061%	5685	2917	1.9	2	6	.1358	4.3502E-07
79	15.965	DCB	0.0052	0.0128%	49503	19963	2.5	1	6	0	1.0420E-07

TOTAL AMOUNT = 40.3393

Areas, times, and heights stored in: 0:076A85.ATB
Data File = 0:076A85.PTS Printed on 11-30-1993 at 11:01:08
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 40 millivolts

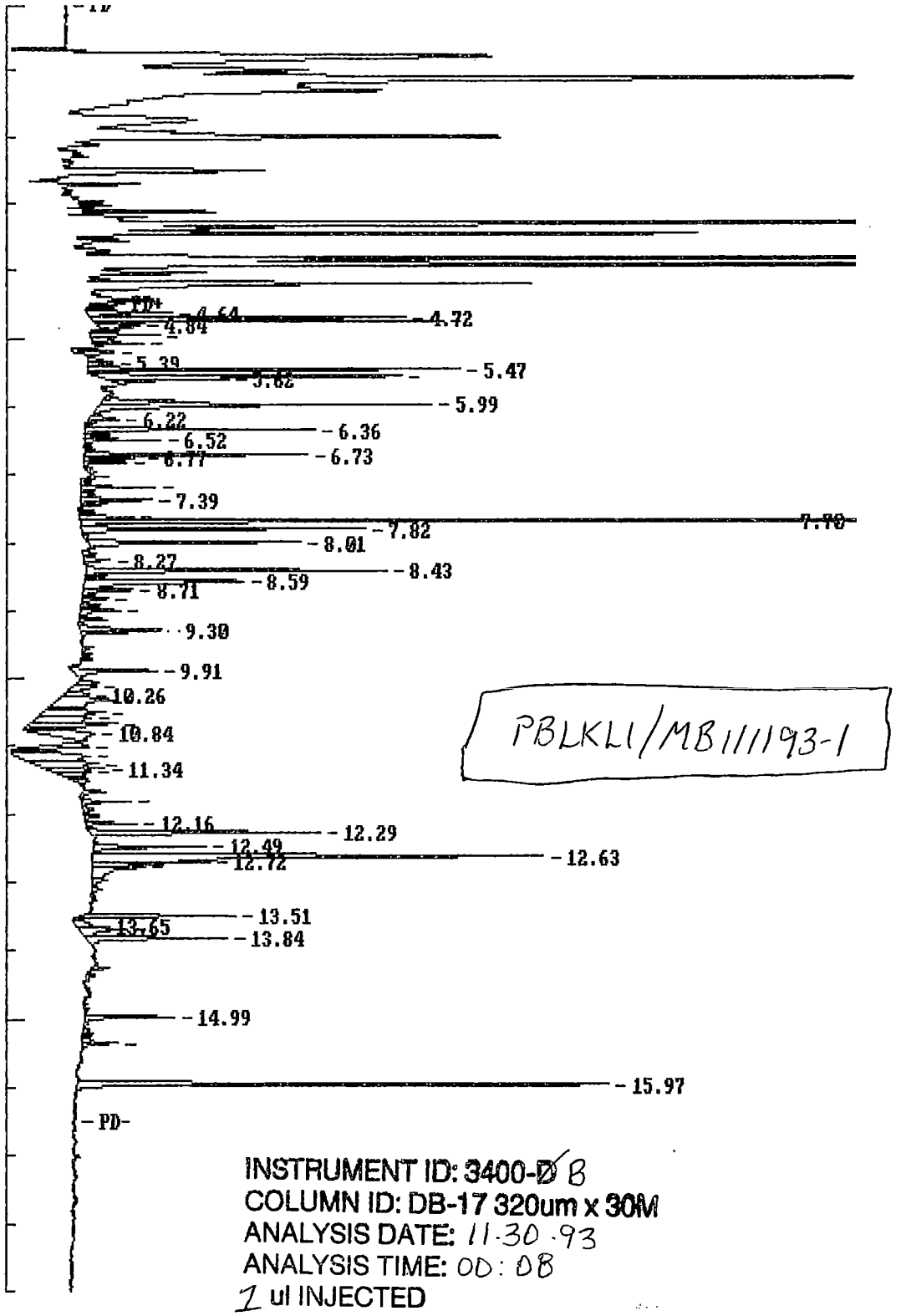


PBLKLI/MB111193-1

INSTRUMENT ID: 3400-~~C~~A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11·30·93
ANALYSIS TIME: 00:08
1 ul INJECTED

11·30·93
BMG

Areas, times, and heights stored in: O:076B85.ATB
Data File = O:076B85.PTS Printed on 11-30-1993 at 12:26:44
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 50 millivolts



PBLKL1/MB111193-1

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-30-93
ANALYSIS TIME: 00:08
1 ul INJECTED

11.30.93
BMG

EXTERNAL STANDARD TABLE

```
******************** 11-30-1993 11:00:30 Version 5.1 ********************
* Sample Name: PBLKL1/MB111193-1,,;                Data File: 0:076A85      *
* Date: 11-30-1993 00:08:15 Method: 0:076AB  11-30-1993 10:37:36  #  862   *
* Interface: 1   Cycle#:  85   Operator DB  Channel#: 0    Vial#: N.A.     *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250              *
*************************************************************************
* Instrument Type: 3400-A                  Column Type: DB-1701 .32mm x 30M  *
*              Solvent Description: carrier gas = H2; make-up = N2          *
* Conditions:  110H.5to140@20/minto280@11/minH9 INJ=210 DET=300             *
*             Detector 0: ECD Range1          Detector 1: ECD Range1        *
* Misc. Information: 11/22/93,P,;                                           *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    20.00
Area reject:      3500                     One sample per    0.300 sec.
Amount injected:        1.00               Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.310		1.2186	1.8643%	12186	5571	2.2	2			1.0000E-04
4	4.535		18.9319	28.9638%	189319	114966	1.6	2			1.0000E-04
6	4.720		4.9498	7.5727%	49498	25952	1.9	2			1.0000E-04
7	4.805		0.5878	0.8992%	5878	2787	2.1	2			1.0000E-04
10	5.050		1.5050	2.3025%	15050	5331	2.8	2			1.0000E-04
11	5.195		0.4961	0.7589%	4961	1183	4.2	2			1.0000E-04
12	5.295		0.4581	0.7008%	4581	1701	2.7	2			1.0000E-04
17	5.740		2.8060	4.2928%	28060	17085	1.6	2			1.0000E-04
19	5.890		0.3581	0.5479%	3581	1757	2.0	2			1.0000E-04
23	6.200		1.4867	2.2745%	14867	8259	1.8	2			1.0000E-04
24	6.305		0.6328	0.9682%	6328	2876	2.2	2			1.0000E-04
25	6.355		0.4798	0.7340%	4798	2397	2.0	2			1.0000E-04
26	6.550		0.3688	0.5642%	3688	2248	1.6	1			1.0000E-04
28	6.710	gamma-BHC <CRQL	1.4363	2.1974%	18592	9079	2.0	2	0	-.4451	7.7254E-05
29	6.830		1.0451	1.5989%	10451	2698	3.9	2			1.0000E-04
34	7.200		0.7661	1.1721%	7661	4061	1.9	2			1.0000E-04
35	7.275		0.5127	0.7844%	5127	2628	2.0	2			1.0000E-04
40	7.635		0.3571	0.5464%	3571	1696	2.1	2			1.0000E-04
44	8.025		5.9943	9.1707%	59943	32992	1.8	2			1.0000E-04
45	8.130		0.6811	1.0421%	6811	2984	2.3	2			1.0000E-04
46	8.200		0.3850	0.5891%	3850	1342	2.9	2			1.0000E-04
49	8.410	delta-BHC Conf.	2.0721	3.1701%	23466	13460	1.7	2	0	-.3554	8.8302E-05
50	8.615		0.3553	0.5435%	3553	1715	2.1	1			1.0000E-04
58	9.575		0.4823	0.7379%	4823	1820	2.7	1			1.0000E-04
60	9.860	Dieldrin <CRQL	1.8151	2.7769%	14045	3291	4.3	2	0	0	1.2923E-04
61	9.990		1.5686	2.3998%	15686	4079	3.8	2			1.0000E-04
66	10.620		0.5396	0.8255%	5396	3369	1.6	1			1.0000E-04
70	11.250	4,4'-DDT <CRQL	1.4474	2.2144%	16837	4103	4.1	2	0	0	8.5967E-05
71	11.335		0.3683	0.5634%	3683	1168	3.2	2			1.0000E-04
72	11.395		0.3655	0.5592%	3655	947	3.9	2			1.0000E-04
73	11.480		0.8708	1.3323%	8708	4090	2.1	2			1.0000E-04
82	12.435		2.4427	3.7371%	24427	8786	2.8	2			1.0000E-04
91	13.495		1.4619	2.2366%	14619	7114	2.1	2			1.0000E-04
92	13.590		1.2957	1.9822%	12957	5866	2.2	2			1.0000E-04
95	14.450	DCB	4.1763	6.3894%	42302	23925	1.8	1	0	0	9.8726E-05
96	14.795		0.6451	0.9869%	6451	1025	6.3	2			1.0000E-04

TOTAL AMOUNT = 65.3641

11-30-93 BMG

++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-30-1993 12:25:51 Version 5.1 **********

* Sample Name: PBLKL1/MB111193-1,,; Data File: D:076B85 *

* Date: 11-30-1993 00:08:21 Method: D:076BB 11-30-1993 11:14:42 # 886 *

* Interface: 2 Cycle#: 85 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.640		1.1401	1.1565%	11401	4956	2.3	2			1.0000E-04
3	4.715		3.3469	3.3949%	33469	18611	1.8	2			1.0000E-04
4	4.765		3.9214	3.9778%	39215	20660	1.9	2			1.0000E-04
5	4.835		0.4332	0.4395%	4332	2046	2.1	1			1.0000E-04
6	4.970	TCX	0.8740	0.8865%	8740	4089	2.1	2			1.0000E-04
9	5.095		0.5855	0.5939%	5855	2965	2.0	2			1.0000E-04
10	5.220		0.5553	0.5633%	5553	1820	3.1	1			1.0000E-04
12	5.385		0.4885	0.4955%	4885	1419	3.4	2			1.0000E-04
13	5.470		3.7551	3.8091%	37551	21995	1.7	2			1.0000E-04
14	5.575		4.2152	4.2757%	42152	17891	2.4	2			1.0000E-04
15	5.620		1.6168	1.6400%	16168	7033	2.3	2			1.0000E-04
18	5.940		1.1189	1.1350%	11189	4219	2.7	2			1.0000E-04
19	5.990		5.2885	5.3644%	52885	19682	2.7	2			1.0000E-04
21	6.215		0.3724	0.3778%	3724	1819	2.0	2			1.0000E-04
23	6.355		2.4183	2.4530%	24183	13646	1.8	2			1.0000E-04
25	6.515		0.7445	0.7552%	7445	4455	1.7	2			1.0000E-04
28	6.725		2.3397	2.3733%	23397	13252	1.8	2			1.0000E-04
29	6.765		0.6313	0.6404%	6313	3310	1.9	2			1.0000E-04
30	6.835		0.5407	0.5484%	5407	2509	2.2	2			1.0000E-04
35	7.205	gamma-BHC	0.0007	0.0007%	8009	4296	1.9	2	7	.1692	9.1880E-08
37	7.385	beta-BHC	0.0027	0.0027%	9600	4104	2.3	2	7	.1675	2.7691E-07
41	7.635		0.6151	0.6240%	6151	3156	1.9	2			1.0000E-04
42	7.695		19.4645	19.7440%	194645	106024	1.8	2			1.0000E-04
43	7.815	Heptachlor	0.0036	0.0036%	32214	16792	1.9	2	7	.2921	1.1145E-07
45	8.010		2.8528	2.8938%	28528	12487	2.3	2			1.0000E-04
47	8.270		0.4038	0.4096%	4038	1532	2.6	2			1.0000E-04
48	8.425		3.6272	3.6793%	36272	17843	2.0	2			1.0000E-04
50	8.585		3.2259	3.2723%	32259	9392	3.4	2			1.0000E-04
51	8.710		0.8363	0.8483%	8363	2903	2.9	2			1.0000E-04
53	8.835		0.4336	0.4399%	4336	1555	2.8	2	11.30.93 BYG		1.0000E-04
55	9.015		0.6247	0.6336%	6247	2324	2.7	2			1.0000E-04
57	9.295		1.1148	1.1308%	11148	4727	2.4	2			1.0000E-04
58	9.320		1.1985	1.2157%	11985	4634	2.6	2			1.0000E-04
62	9.910		1.2266	1.2443%	12266	4807	2.6	1			1.0000E-04
64	10.140	Endosulfan I	0.0007	0.0007%	6158	1357	4.5	2	7	.2975	1.1134E-07
65	10.260		0.4714	0.4782%	4714	1461	3.2	2			1.0000E-04
66	10.340		2.2841	2.3169%	22841	3416	6.7	2		1760	1.0000E-04
67	10.515		1.7283	1.7531%	17283	3615	4.8	2			1.0000E-04
68	10.605	4,4'-DDE	0.0016	0.0016%	14025	3223	4.4	2	7	-.0416	1.1134E-07
69	10.685	Dieldrin	0.0025	0.0025%	24711	5144	4.8	2	7	.1465	9.9731E-08
70	10.835		1.4148	1.4351%	14148	2440	5.8	1			1.0000E-04

72	11.185		2.0374	2.0087%	20374	4084	5.0	2			1.0000E-04
73	11.270		1.4515	1.4724%	14515	3620	4.0	2			1.0000E-04
74	11.340	Endrin	0.0013	0.0014%	11001	3319	3.3	2	7	0	1.2132E-07
75	11.400		0.8337	0.8457%	8337	1943	4.3	2			1.0000E-04
78	11.830		0.5617	0.5698%	5617	2937	1.9	2			1.0000E-04
81	12.155	4,4'-DDT	0.0010	0.0010%	5870	2982	2.0	2	7	0	1.6277E-07
82	12.290	Endrin Aldehyde	0.0054	0.0055%	31061	13515	2.3	1	7	.1812	1.7436E-07
84	12.490	Endo. sulfate	0.0022	0.0022%	13979	6633	2.1	1	7	0	1.5764E-07
85	12.625		8.7119	8.8371%	87119	26749	3.3	2			1.0000E-04
86	12.720		2.0968	2.1269%	20968	6894	3.0	2			1.0000E-04
87	12.785		1.5952	1.6181%	15952	3058	5.2	2			1.0000E-04
91	13.510		1.9609	1.9890%	19609	8931	2.2	1			1.0000E-04
92	13.650		0.4410	0.4473%	4410	912	4.8	2			1.0000E-04
93	13.710	Methoxychlor	0.0013	0.0014%	10684	2811	3.8	2	7	-.1188	1.2466E-07
94	13.840	Endrin Ketone	0.0078	0.0079%	17816	8289	2.1	2	7	0	4.3502E-07
102	14.985		1.2495	1.2675%	12495	5251	2.4	2			1.0000E-04
106	15.365		0.5946	0.6031%	5946	2083	2.9	2			1.0000E-04
107	15.965	DCB	0.0079	0.0080%	75780	31465	2.4	1	7	0	1.0420E-07

TOTAL AMOUNT = 98.5841

076885
P2
11.30.93
BMG

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK01

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: PIBLK01

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

% Moisture: decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) Date Extracted:

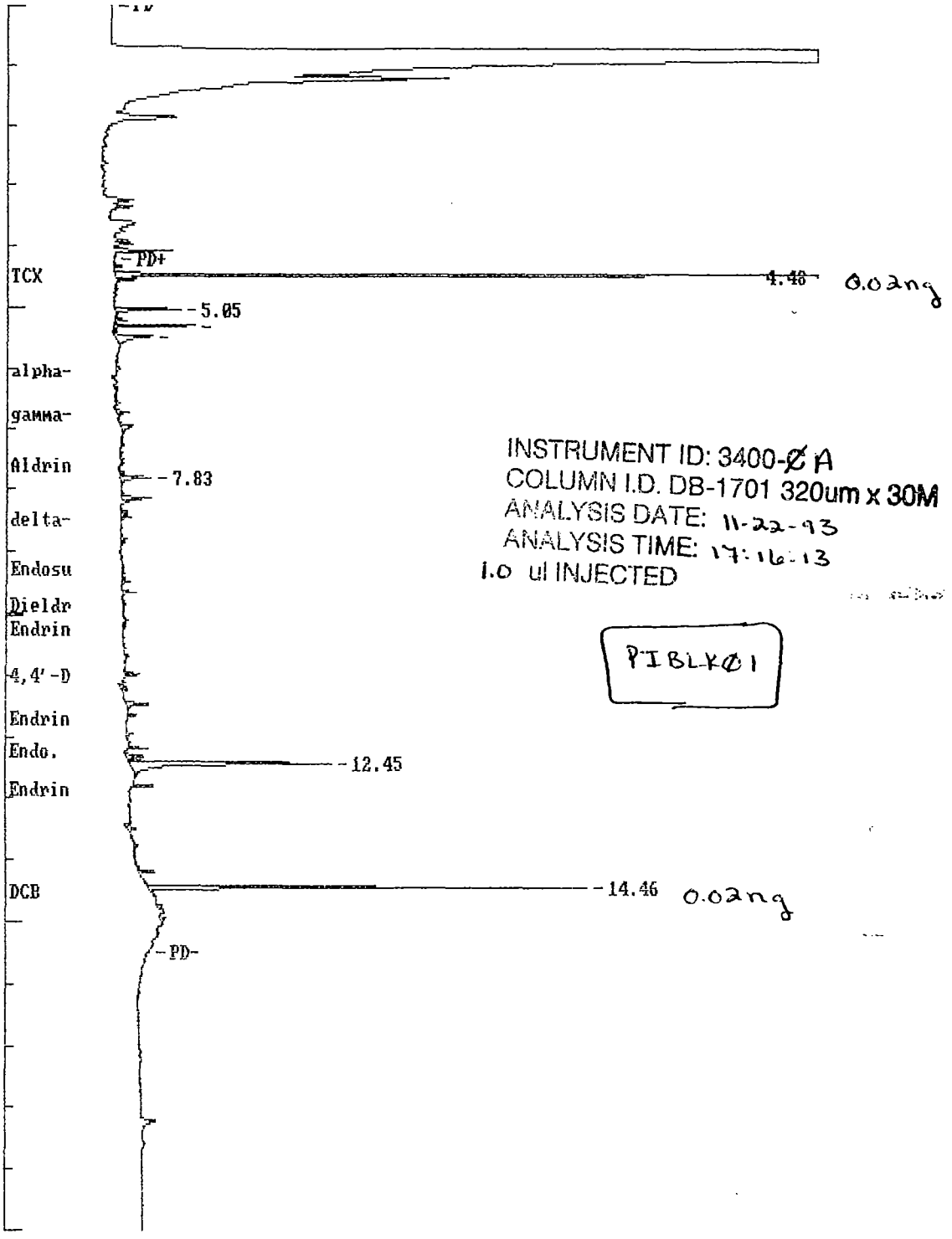
Concentrated Extract Volume: (uL) Date Analyzed: 11/22/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

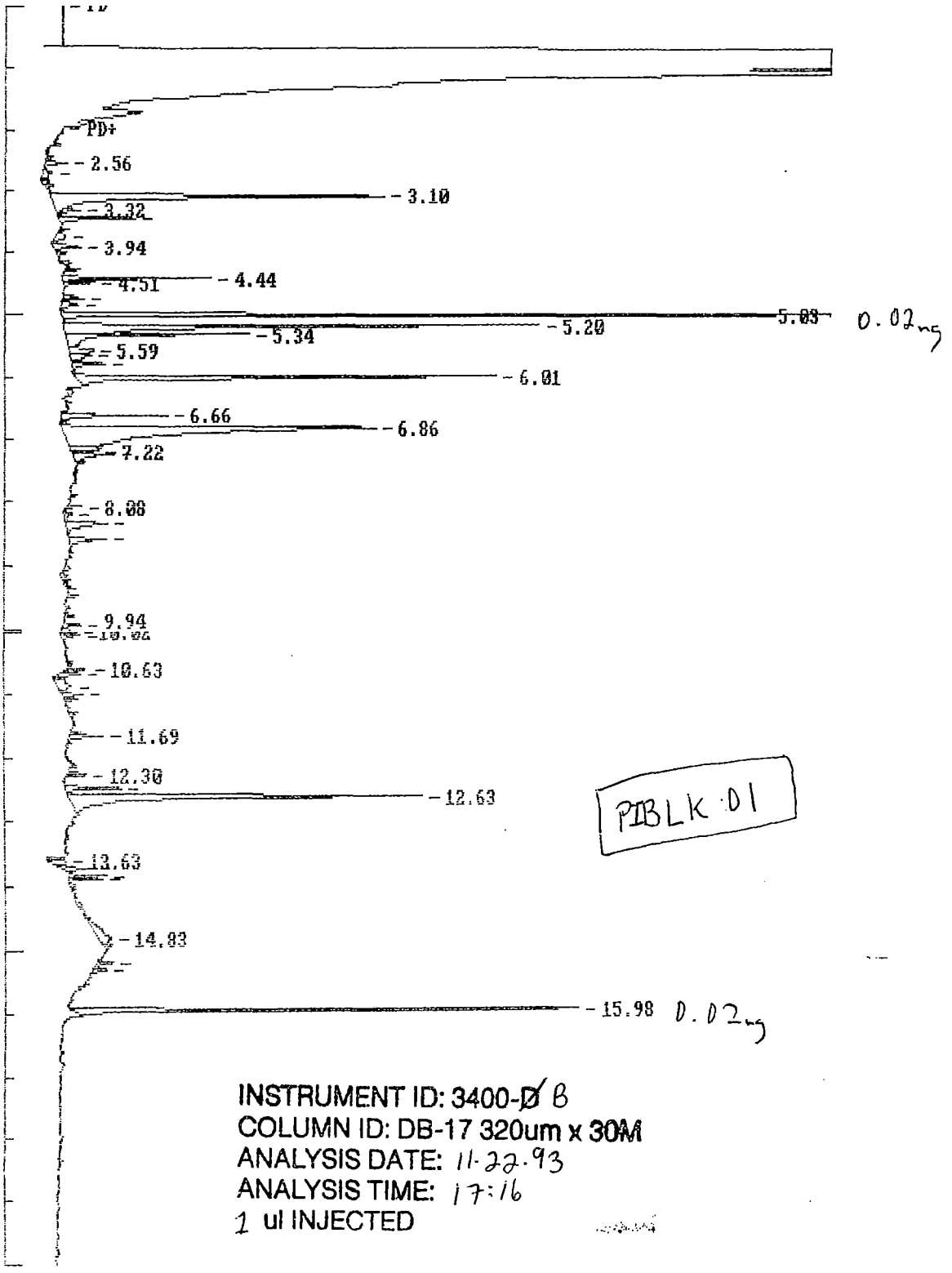
Areas, times, and heights stored in: O:076A1.ATB
Data File = O:076A1.PTS Printed on 11-23-1993 at 09:31:37
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 40 millivolts



11-23-93

1763

Data File = 0:07681.PTS Printed on 11-24-1993 at 10:04:12
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 50 millivolts



INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11.22.93
ANALYSIS TIME: 17:16
1 ul INJECTED

11.24.93
BMG

++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-23-1993 09:31:31 Version 5.1 **********

* Sample Name: PIBLK01,I,; Data File: 0:076A1 *

* Date: 11-22-1993 17:16:13 Method: 0:076AB 11-23-1993 09:31:03 # 835 *

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

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.475	TCX	2.0505	16.3375%	69942	40476	1.7	2	2	0	2.9319E-05
4	5.045		0.6833	5.4442%	6833	3505	1.9	1			1.0000E-04
6	5.315		0.6885	5.4857%	6885	4334	1.6	1			1.0000E-04
7	5.485		0.7567	6.0291%	7567	1972	3.8	1			1.0000E-04
16	7.825		0.4277	3.4080%	4277	1648	2.6	1			1.0000E-04
42	12.450		3.6928	29.4226%	36928	10811	3.4	2			1.0000E-04
47	14.460	DCB	4.2514	33.8727%	43062	23598	1.8	1	2	-.3351	9.8726E-05

TOTAL AMOUNT = 12.5510

EXTERNAL STANDARD TABLE

********** 11-23-1993 09:48:38 Version 5.1 **********

* Sample Name: PIBLK01,I,; Data File: 0:076B1 *
* Date: 11-22-1993 17:16:14 Method: 0:076BB 11-23-1993 09:47:42 # 874 *
* Interface: 2 Cycle#: 1 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
4	4.875		0.4180	0.8349%	4180	1082	3.9	2			1.0000E-04
5	5.030	TCX	0.0173	0.0346%	127977	71236	1.8	1	5	0	1.3549E-07
6	5.200		8.9782	17.9330%	89782	29022	3.1	2			1.0000E-04
7	5.340		3.3790	6.7491%	33790	11103	3.0	2			1.0000E-04
8	5.590		0.6885	1.3753%	6885	1477	4.7	2			1.0000E-04
9	5.670		0.5960	1.1905%	5960	1288	4.6	2			1.0000E-04
10	5.805		0.5420	1.0825%	5420	2007	2.7	2			1.0000E-04
11	6.005		7.1140	14.2093%	71140	25671	2.8	1			1.0000E-04
14	6.655		1.3442	2.6849%	13442	6440	2.1	2			1.0000E-04
16	6.855		13.7278	27.4197%	137278	19127	7.2	2			1.0000E-04
17	7.215	gamma-BHC	0.0005	0.0011%	5739	1685	3.4	2	5	0	9.1880E-08
18	7.280		0.8804	1.7585%	8804	2561	3.4	2			1.0000E-04
24	8.350		1.0356	2.0685%	10356	2527	4.1	2			1.0000E-04
25	8.600		0.7110	1.4201%	7110	2307	3.1	1			1.0000E-04
40	10.715	Dieldrin	0.0005	0.0010%	4903	1356	3.6	2	5	.1282	9.9731E-08
41	10.895		0.5778	1.1542%	5778	867	6.7	2			1.0000E-04
48	11.685	Endosulfan II	0.0005	0.0011%	5287	2131	2.5	2	5	-.1560	9.9585E-08
55	12.510	Endo. sulfate	0.0015	0.0030%	9599	3387	2.8	1	5	-.1189	1.5764E-07
56	12.630		8.6422	17.2618%	86422	21511	4.0	1			1.0000E-04
59	13.740	Methoxychlor	0.0006	0.0012%	4779	1743	2.7	2	5	-.1988	1.2466E-07
60	13.855	Endrin Ketone	0.0020	0.0039%	4533	2316	2.0	2	5	-.0906	4.3502E-07
61	13.905		0.4948	0.9883%	4948	2078	2.4	2			1.0000E-04
65	14.825		0.9055	1.8087%	9055	736	12.3	2			1.0000E-04
71	15.975	DCB	0.0074	0.0148%	71017	30599	2.3	1	5	-.1675	1.0420E-07

TOTAL AMOUNT = 50.0654

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK02

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: PIBLK02

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

% Moisture: decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) Date Extracted:

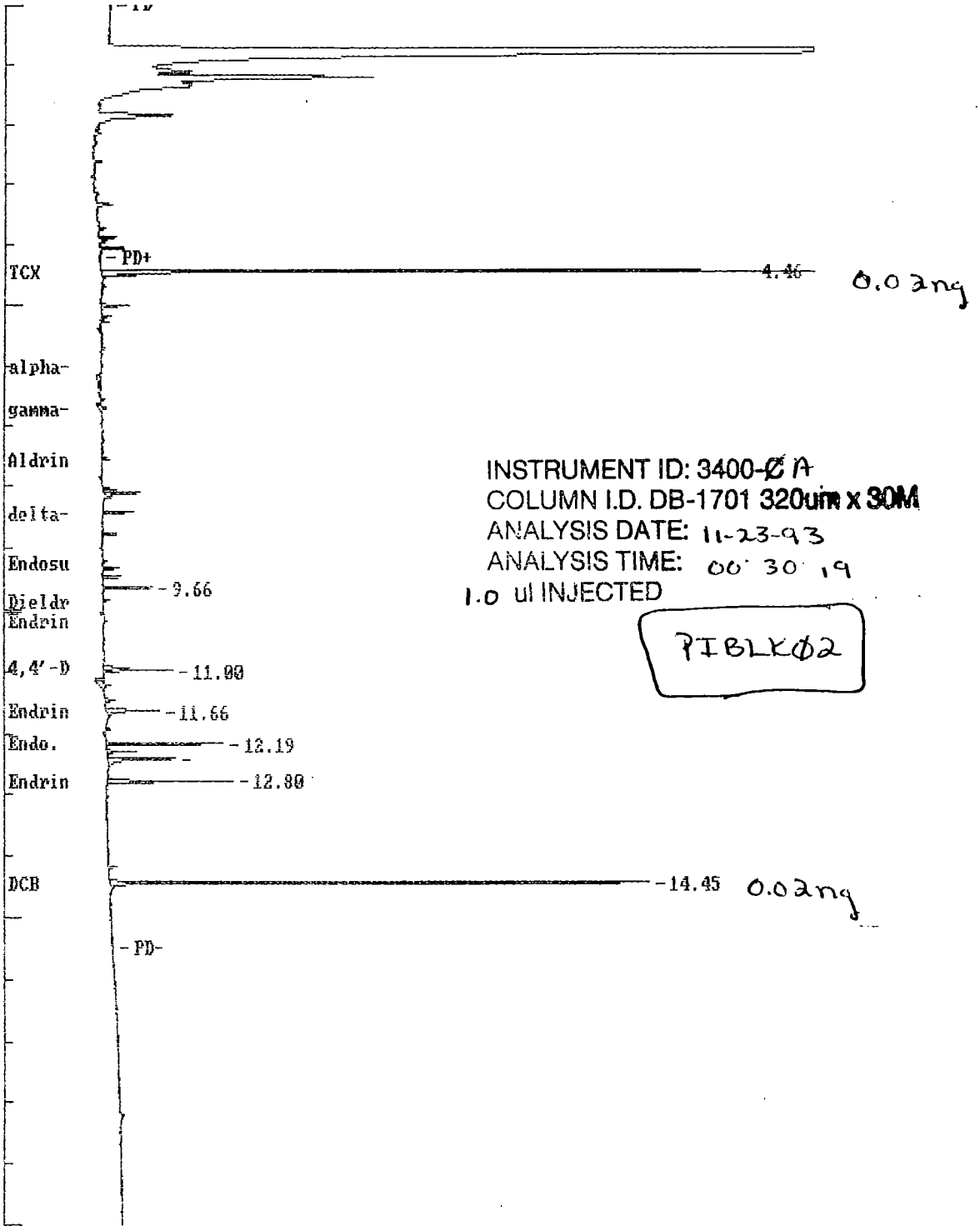
Concentrated Extract Volume: (uL) Date Analyzed: 11/23/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

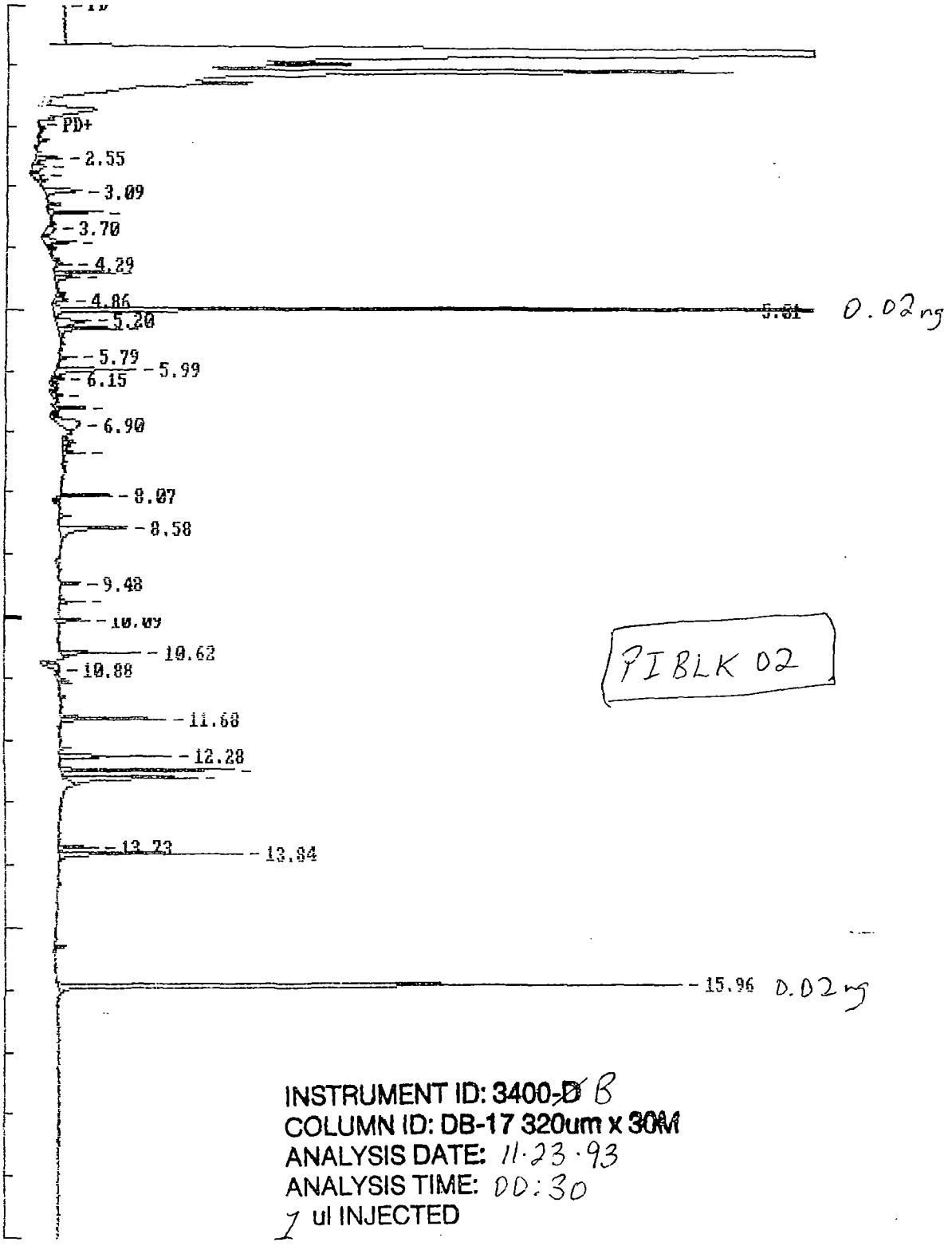
Areas, times, and heights stored in: O:076A17.ATB
Data File = O:076A17.PTS Printed on 11-23-1993 at 10:03:43
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 40 millivolts



11-23-93 gb

1768

Data File = O:076B17.PTS Printed on 11-24-1993 at 11:03:12
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 50 millivolts



PIBLK 02

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11·23·93
ANALYSIS TIME: 00:30
1 ul INJECTED

11.24.93
BMG

EXTERNAL STANDARD TABLE

********** 11-23-1993 10:03:37 Version 5.1 **********

* Sample Name: PIBLK02,Q; Data File: 0:076A17 *

* Date: 11-23-1993 00:30:19 Method: 0:076AB 11-23-1993 10:03:25 # 843 *

* Interface: 1 Cycle#: 17 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.455	TCX	2.1669	18.2227%	73911	41474	1.8	2	1	0	2.9318E-05
21	9.655	4,4'-DDE LCRQL	0.4784	4.0233%	4334	2601	1.7	1	1	0	1.1040E-04
25	10.995	Endosulfan II LCRQL	0.8292	6.9731%	7045	3696	1.9	2	1	.1577	1.1769E-04
28	11.655	Endrin Aldehyde LCRQL	0.5115	4.3013%	5516	2753	2.0	1	1	.1551	9.2734E-05
30	12.185	Endo. sulfate LCRQL	1.1734	9.8677%	10514	6296	1.7	1	1	.1533	1.1160E-04
32	12.435		0.9415	7.9173%	9415	3527	2.6	1			1.0000E-04
33	12.800	Endrin Ketone LCRQL	0.5192	4.3664%	11602	6713	1.7	1	1	.1122	4.4753E-05
36	14.445	DCB	5.2712	44.3282%	53392	28994	1.8	1	1	0	9.8729E-05

TOTAL AMOUNT = 11.8912

11-29-93
DB

Areas, times, and heights stored in: 0:076B16.ATB

++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-23-1993 10:19:36 Version 5.1 **********

* Sample Name: PIBLK02,Q; Data File: 0:076B17 *

* Date: 11-23-1993 00:30:23 Method: 0:076BB 11-23-1993 10:16:12 # 875 *

* Interface: 2 Cycle#: 17 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.860		0.3730	3.9907%	3730	887	4.2	2			1.0000E-04
3	5.010	TCX	0.0184	0.1970%	135866	75616	1.8	2	3	0	1.3549E-07
4	5.195		0.9722	10.4011%	9722	2157	4.5	2			1.0000E-04
5	5.325		0.9586	10.2556%	9586	3963	2.4	3			1.0000E-04
9	5.990		1.4494	15.5074%	14494	5030	2.9	2			1.0000E-04
13	6.640		0.3784	4.0487%	3784	1853	2.0	1			1.0000E-04
15	6.900		1.1121	11.8979%	11121	1237	9.0	1			1.0000E-04
21	8.065	delta-BHC	0.0006	0.0062%	5722	3266	1.8	1	3	.2617	1.0128E-07
24	8.580		1.6598	17.7581%	16598	4250	3.9	1			1.0000E-04
28	10.085	Endosulfan I	0.0005	0.0054%	4553	2043	2.2	1	3	-.1469	1.1134E-07
30	10.615	4,4'-DDE	0.0009	0.0100%	8279	4948	1.7	2	3	.1524	1.1134E-07
37	11.680	Endosulfan II	0.0013	0.0137%	12901	6476	2.0	2	3	.1995	9.9585E-08
39	12.280	Endrin Aldehyde	0.0023	0.0245%	13141	5909	1.9	1	3	.1996	1.7436E-07
40	12.500	Endo. sulfate	0.0032	0.0347%	20588	10737	1.9	1	3	.1996	1.5764E-07
41	12.620		2.3964	25.6385%	23964	8023	3.0	1			1.0000E-04
43	13.730	Methoxychlor	0.0006	0.0061%	4551	2476	1.8	1	3	.1266	1.2466E-07
44	13.840	Endrin Ketone	0.0095	0.1015%	21810	11332	1.9	1	3	.1996	-4.3502E-07
47	15.960	DCB	0.0096	0.1029%	92272	38948	2.4	1	3	.1368	1.0420E-07

TOTAL AMOUNT = - 9.3468

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK03

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: PIBLK03

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

% Moisture: decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) Date Extracted:

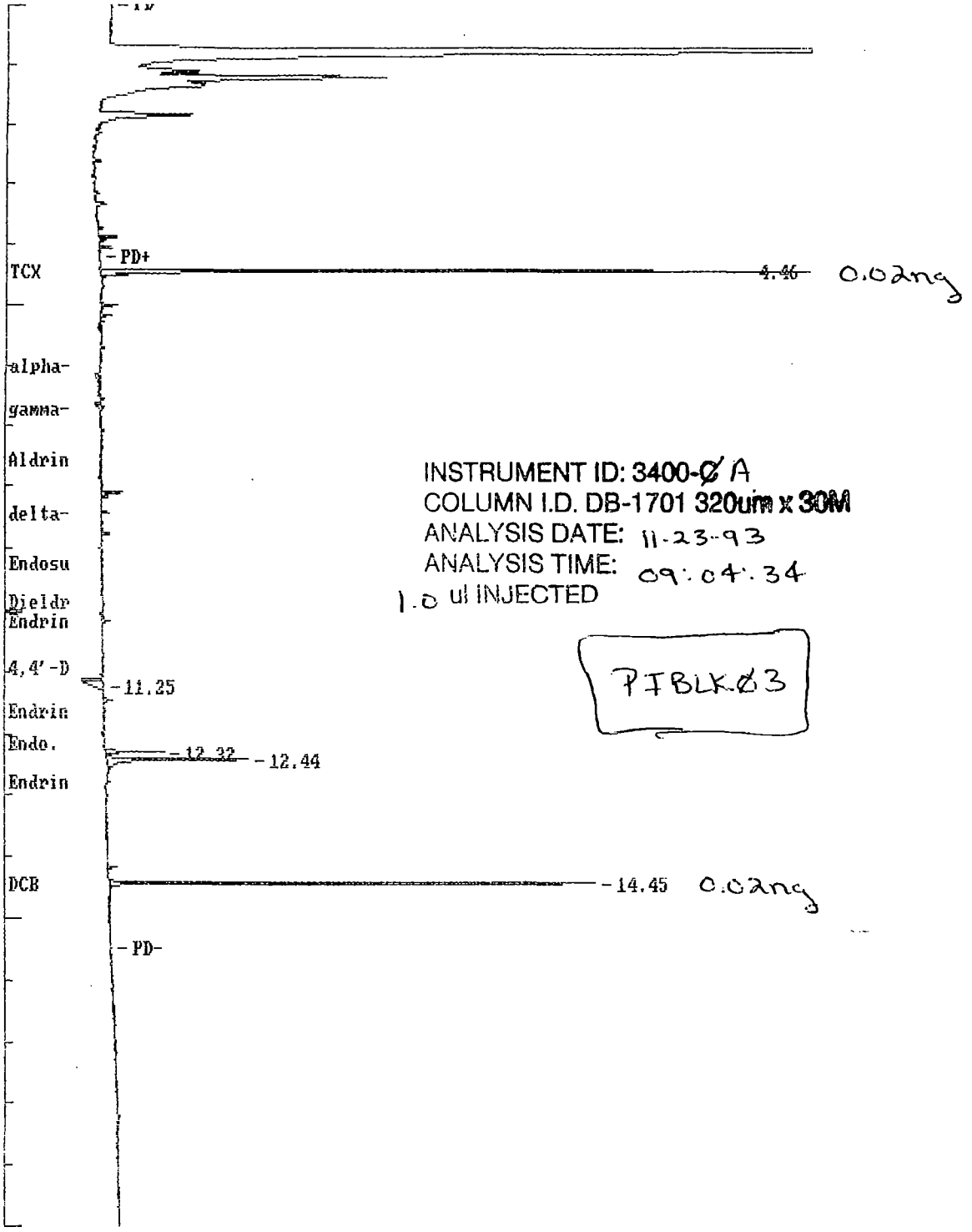
Concentrated Extract Volume: (uL) Date Analyzed: 11/23/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

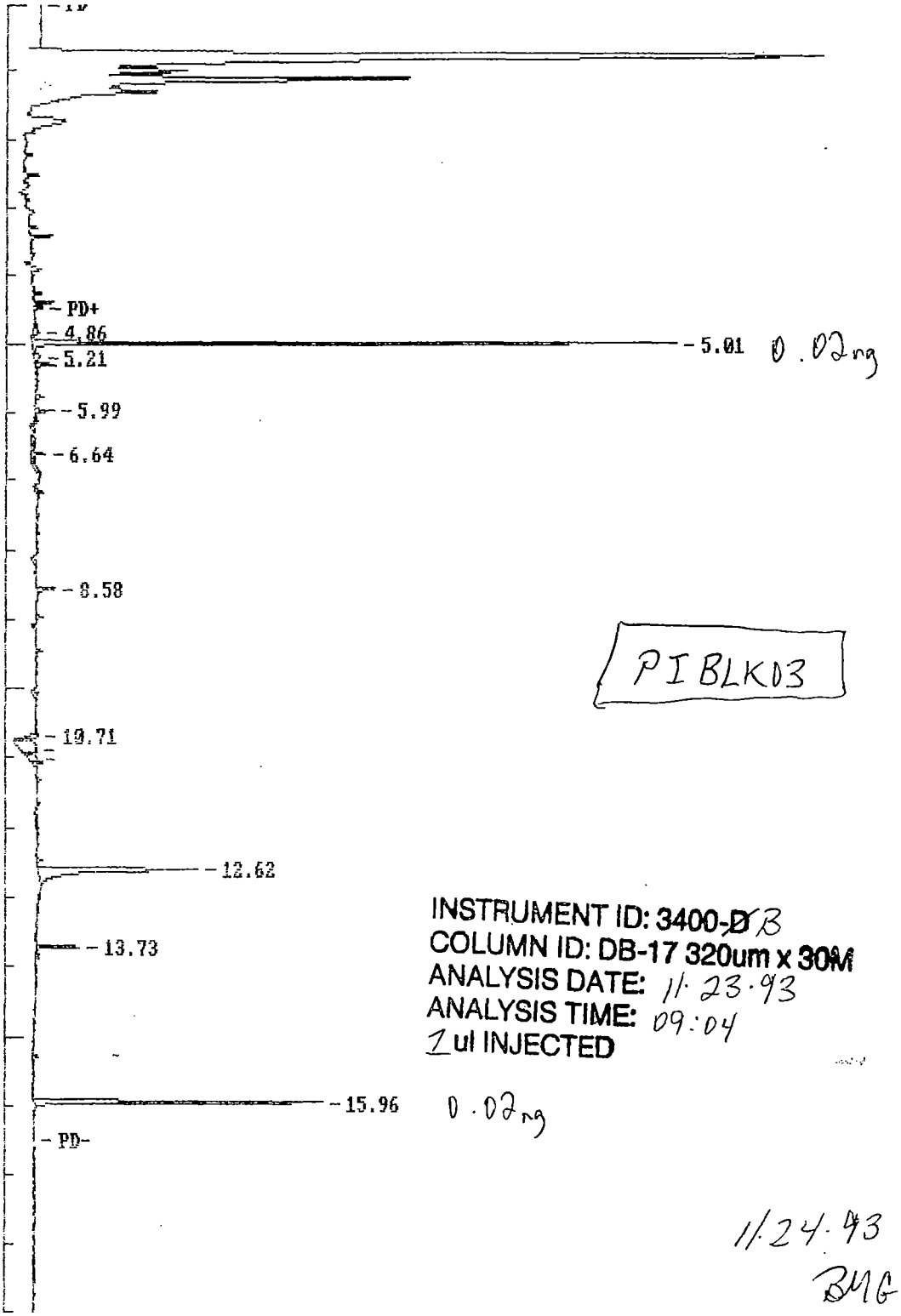
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Areas, times, and heights stored in: 0:076A36.ATB
Data File = 0:076A36.PTS Printed on 11-23-1993 at 10:27:32
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 40 millivolts



11-24-93

Areas, times, and heights stored in: 0:076B36.ATB
Data File = 0:076B36.PTS Printed on 11-24-1993 at 11:29:14
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 100 millivolts



PIBLK03

INSTRUMENT ID: 3400-~~D~~B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11·23·93
ANALYSIS TIME: 09:04
1 ul INJECTED

11·24·93
BMG

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++++++++   EXTERNAL STANDARD TABLE   ++++++++
******************** 11-23-1993 10:27:28 Version 5.1 ********************
* Sample Name: PIBLK03,Q,;                          Data File: 0:076A36      *
* Date: 11-23-1993 09:04:34 Method: 0:076AB  11-23-1993 10:08:48  #  845   *
* Interface: 1   Cycle#:  36   Operator DB  Channel#: 0    Vial#: N.A.      *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250               *
*************************************************************************
* Instrument Type: 3400-A                  Column Type: DB-1701 .32mm x 30M  *
*            Solvent Description: carrier gas = H2; make-up = N2            *
* Conditions:  110H.5to140@20/minto280@11/minH9 INJ=210 DET=300             *
*            Detector 0: ECD Range1          Detector 1: ECD Range1         *
* Misc. Information: 11/22/93,P,;                                           *
*************************************************************************
Starting Delay:    0.00                      Ending retention time:    20.00
Area reject:      3500                       One sample per    0.300 sec.
Amount injected:        1.00                 Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.455	TCX	2.1468	20.6208%	73226	40864	1.8	2	1	0	2.9318E-05
17	11.250	4,4'-DDT <LCEQL	0.3296	3.1663%	3834	368	10.4	1	1	.1122	8.5967E-05
19	12.315	Methoxychlor <LCEQL	1.2787	12.2821%	4732	3095	1.5	1	1	0	2.7021E-04
20	12.435		2.0334	19.5317%	20334	7536	2.7	1			1.0000E-04
23	14.445	DCB	4.6223	44.3991%	46820	26273	1.8	1	1	0	9.8726E-05

TOTAL AMOUNT = 10.4109

11-29-93
DB

EXTERNAL STANDARD TABLE

********** 11-24-1993 11:29:08 Version 5.1 **********

* Sample Name: PIBLK03,Q,; Data File: 0:076B36 *
* Date: 11-23-1993 09:04:41 Method: 0:076BB 11-24-1993 11:17:35 # 882 *
* Interface: 2 Cycle#: 36 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.860		0.3763	3.0606%	3763	864	4.4	2			1.0000E-04
3	5.010	TCX	0.0185	0.1505%	136575	75252	1.8	2	3	0	1.3549E-07
4	5.205		0.4258	3.4631%	4258	811	5.2	2			1.0000E-04
5	5.325		0.5761	4.6858%	5761	2535	2.3	2			1.0000E-04
8	5.990		0.4956	4.0315%	4956	2205	2.2	1			1.0000E-04
13	6.640		0.4808	3.9110%	4808	1666	2.9	2			1.0000E-04
22	8.580		0.6049	4.9203%	6049	2205	2.7	1			1.0000E-04
27	10.705	Dieldrin	0.0006	0.0050%	6194	1413	4.4	1	3	.4341	9.9731E-08
28	10.885		1.6329	13.2814%	16329	1833	8.9	2			1.0000E-04
29	11.035		0.6030	4.9045%	6030	921	6.5	2			1.0000E-04
37	12.620		7.0705	57.5095%	70705	18456	3.8	1			1.0000E-04
38	13.730	Methoxychlor	0.0011	0.0088%	8672	4988	1.7	1	3	.1266	1.2466E-07
42	15.960	DCB	0.0084	0.0680%	80221	33384	2.4	1	3	.1368	1.0420E-07

TOTAL AMOUNT = 12.2944

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK04

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: PIBLK04

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

% Moisture: decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) Date Extracted:

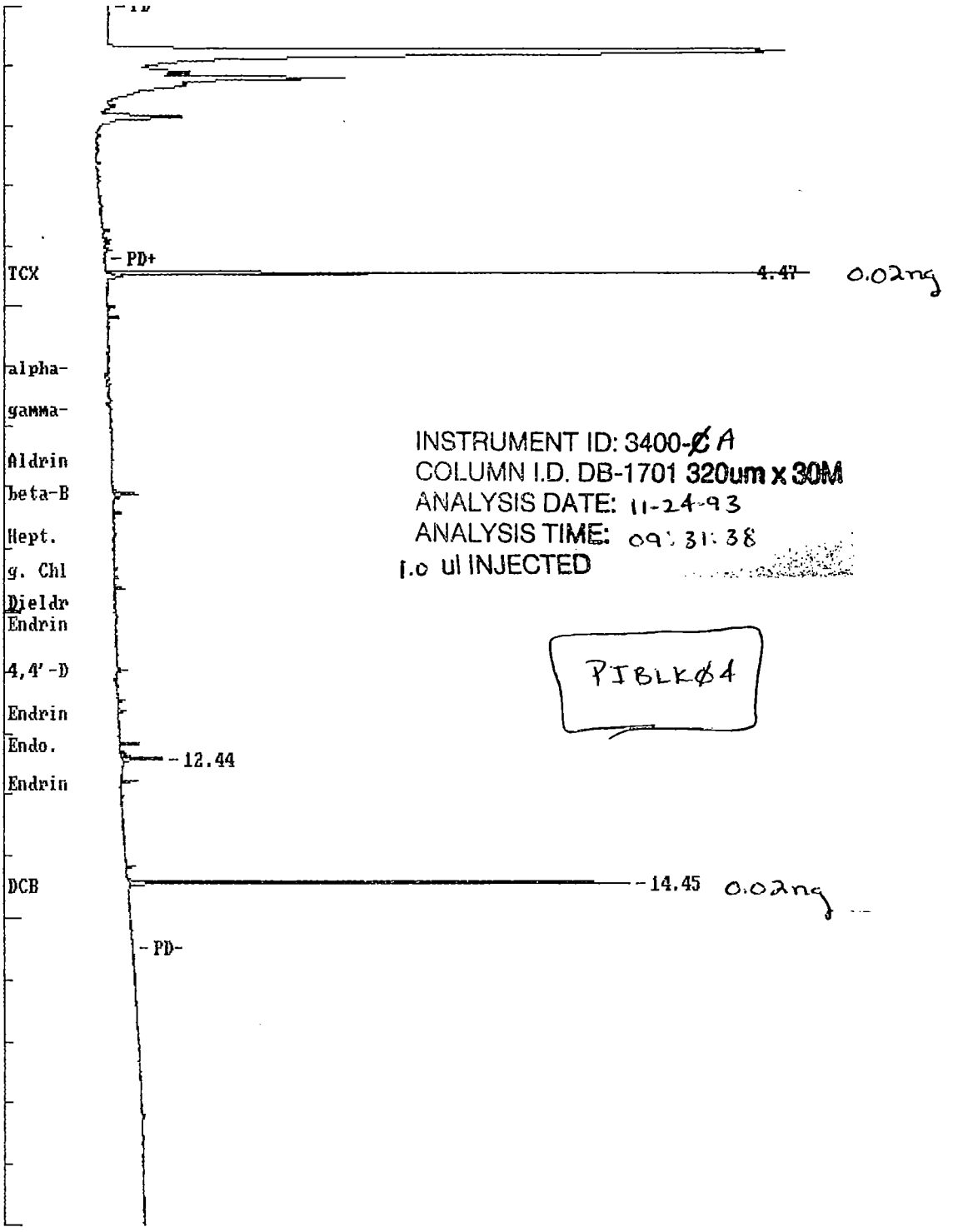
Concentrated Extract Volume: (uL) Date Analyzed: 11/24/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

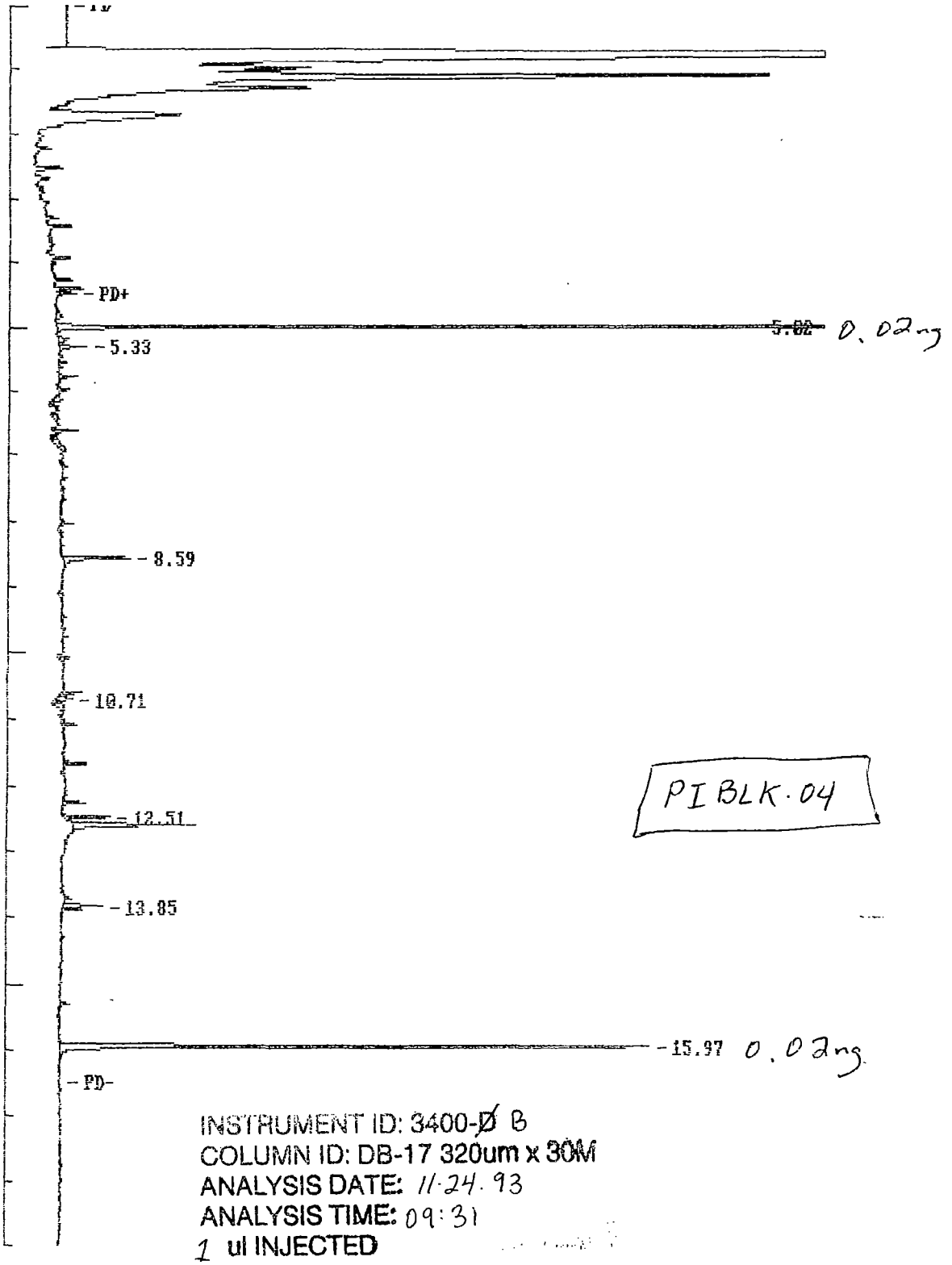
Areas, times, and heights stored in: O:076A39.ATB
Data File = O:076A39.PTS Printed on 11-24-1993 at 15:59:23
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 40 millivolts



11-29-93

1778

Areas, times, and heights stored in: O:076B39.ATB
Data File = O:076B39.PTS Printed on 11-24-1993 at 17:16:21
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 50 millivolts



PI BLK.04

INSTRUMENT ID: 3400-~~Ø~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-24-93
ANALYSIS TIME: 09:31
1 ul INJECTED

11-29-93
1779 BMG

EXTERNAL STANDARD TABLE

********** 11-24-1993 15:59:19 Version 5.1 **********

* Sample Name: PIBLK04,0,; Data File: 0:076A39 *
* Date: 11-24-1993 09:31:38 Method: 0:076AB 11-24-1993 15:54:01 # 856 *
* Interface: 1 Cycle#: 81 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.465	TCX	2.1077	28.7284%	71891	41331	1.7	1	1	0	2.9318E-05
19	12.440		0.5139	7.0050%	5139	2186	2.4	2			1.0000E-04
22	14.450	DCB	4.7149	64.2666%	47758	27083	1.8	1	1	-.1810	9.8726E-05

TOTAL AMOUNT = 7.3365

```
++++++    EXTERNAL STANDARD TABLE    ++++++
******************** 11-24-1993 17:16:14 Version 5.1 ********************
* Sample Name: PIBLK04,0,;                          Data File: 0:076B39      *
* Date: 11-24-1993 09:31:38 Method: 0:076BB  11-24-1993 17:15:17  #  884   *
* Interface: 2   Cycle#:  81   Operator BG  Channel#: 0    Vial#: N.A.      *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250               *
*************************************************************************
* Instrument Type: 3400-B                  Column Type: DB-17 .32mm x 30M   *
*              Solvent Description: carrier gas = H2; make-up = N2         *
* Conditions:  110H.5to140@20/min to280@11/minH9 INJ=210 DET=300           *
*              Detector 0: ECD Range1          Detector 1: ECD Range1      *
* Misc. Information: 11/22/93,C,;                                          *
*************************************************************************
Starting Delay:    0.00                    Ending retention time:    19.00
Area reject:      3500                     One sample per   0.300 sec.
Amount injected:        1.00               Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	5.020	TCX	0.0182	0.6003%	134597	76030	1.8	1	3	0	1.3549E-07
5	5.330		0.3644	11.9954%	3644	1713	2.1	2			1.0000E-04
22	8.585		0.9905	32.6071%	9905	4055	2.4	1			1.0000E-04
29	10.710	Dieldrin	0.0004	0.0128%	3907	1002	3.9	2	3	.2808	9.9731E-08
37	12.505	Endo. sulfate	0.0008	0.0271%	5214	2652	2.0	1	3	0	1.5764E-07
38	12.620		1.6520	54.3821%	16520	6437	2.6	1			1.0000E-04
41	13.845	Endrin Ketone	0.0020	0.0674%	4708	2383	2.0	2	3	.0361	4.3502E-07
44	15.965	DCB	0.0093	0.3078%	89722	36432	2.5	1	3	0	1.0420E-07

TOTAL AMOUNT = 3.0377

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK05

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: PIBLK05

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

% Moisture: decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) Date Extracted:

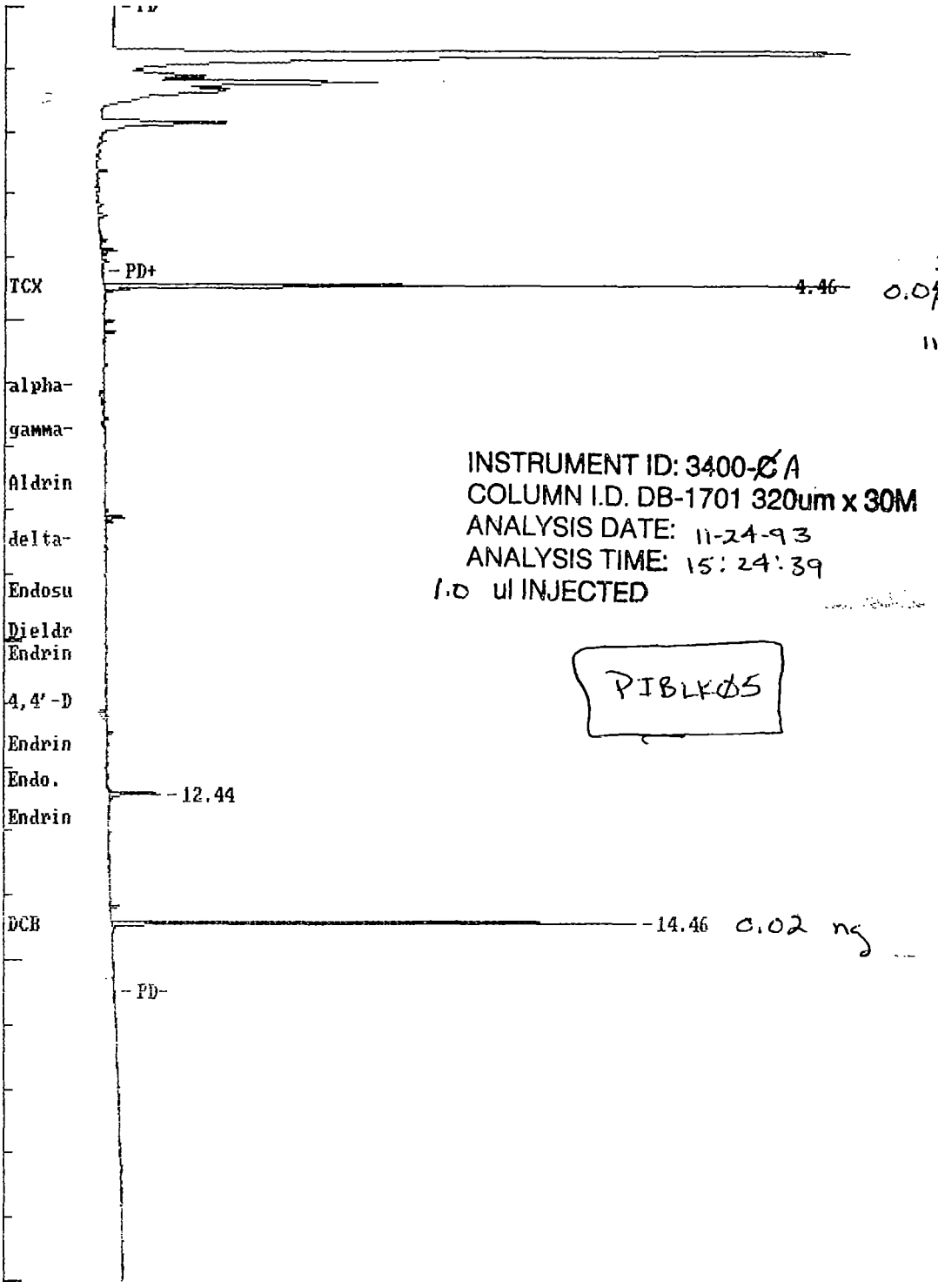
Concentrated Extract Volume: (uL) Date Analyzed: 11/24/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

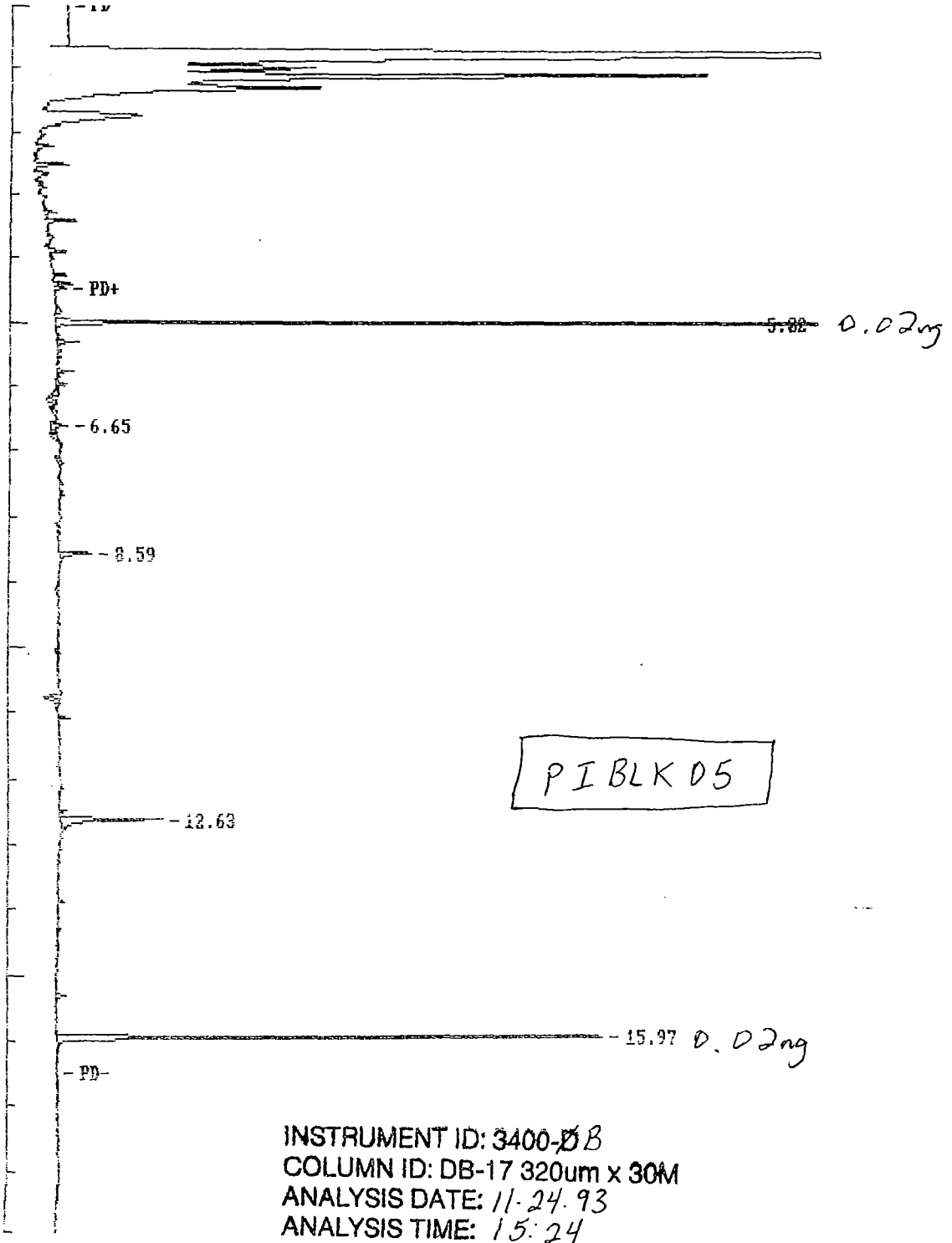
GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Areas, times, and heights stored in: O:076A51.ATB
Data File = O:076A51.PTS Printed on 11-24-1993 at 16:11:28
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 40 millivolts



Areas, times, and heights stored in: 0:076B51.ATB
Data File = 0:076B51.PTS Printed on 11-24-1993 at 17:36:50
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 50 millivolts



INSTRUMENT ID: 3400-~~D~~B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-24-93
ANALYSIS TIME: 15:24
1 ul INJECTED

11-29-93 BMG

EXTERNAL STANDARD TABLE

********** 11-24-1993 16:11:25 Version 5.1 **********

* Sample Name: PIBLK05,Q,; Data File: O:076A51 *
* Date: 11-24-1993 15:24:39 Method: O:076AB 11-24-1993 15:54:01 # 856 *
* Interface: 1 Cycle#: 51 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.Sto140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.460	TCX	2.1286	27.8713%	72605	39266	1.8 2	1	0	2.9318E-05
15	12.440		0.6240	8.1706%	6240	2614	2.4 2			1.0000E-04
17	14.455	DCB	4.8846	63.9581%	49477	27052	1.8 1	1	-.0345	9.8726E-05

TOTAL AMOUNT = 7.6373

++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-24-1993 17:36:43 Version 5.1 **********

* Sample Name: PIBLK05,Q,; Data File: O:076B51 *

* Date: 11-24-1993 15:24:41 Method: O:076BB 11-24-1993 17:15:17 # 884 *

* Interface: 2 Cycle#: 51 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	5.020	TCX	0.0177	0.5910%	130840	74024	1.8	2	2	0	1.3549E-07
12	6.645		0.3957	13.1916%	3957	1096	3.6	2			1.0000E-04
20	8.590		0.5695	18.9864%	5695	2021	2.8	1			1.0000E-04
27	12.630		2.0077	66.9326%	20077	6364	3.2	1			1.0000E-04
31	15.970	DCB	0.0089	0.2983%	85883	34017	2.5	1	2	0	1.0420E-07

TOTAL AMOUNT = 2.9996

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK06

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: PIBLK06

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

% Moisture: decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) Date Extracted:

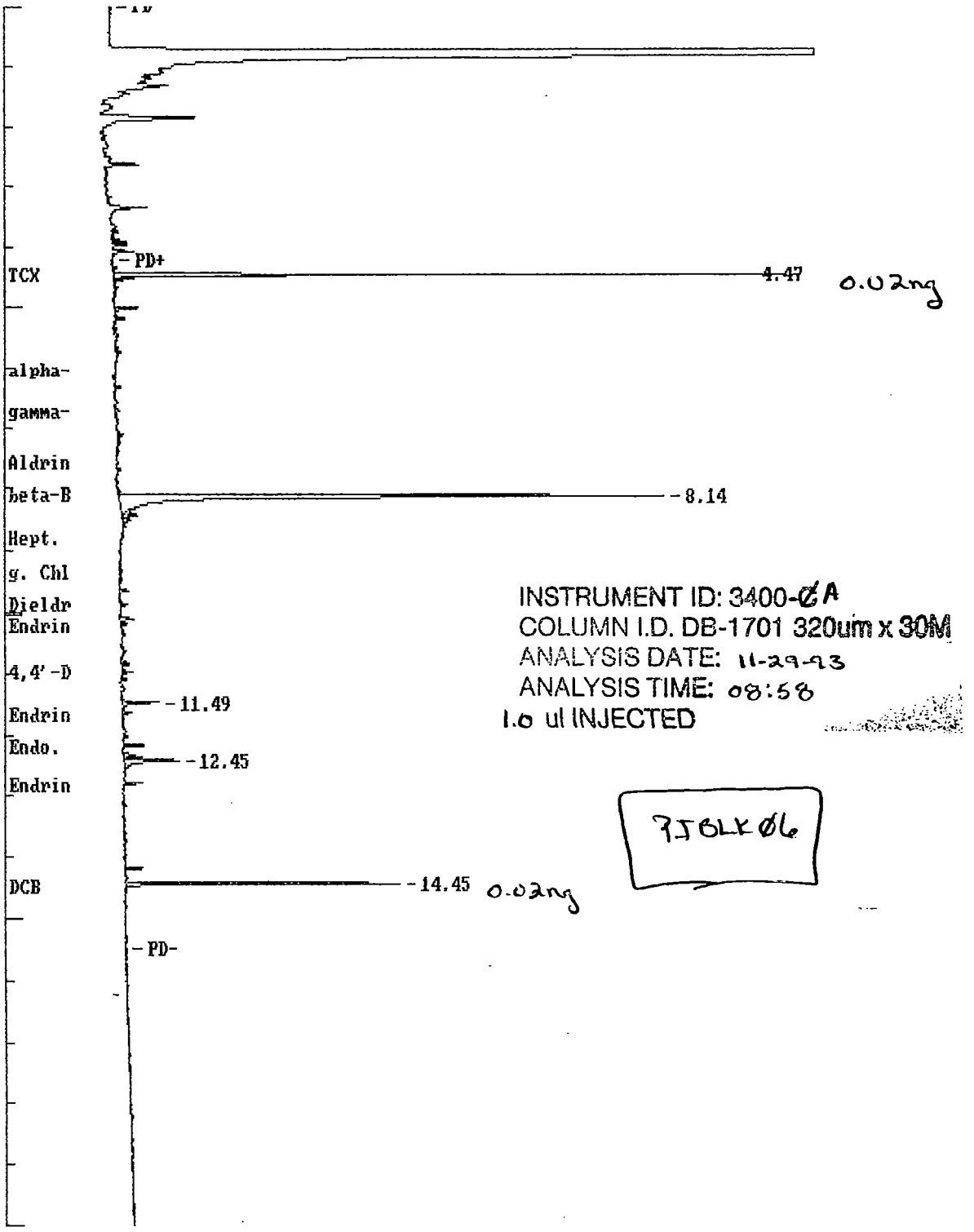
Concentrated Extract Volume: (uL) Date Analyzed: 11/29/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

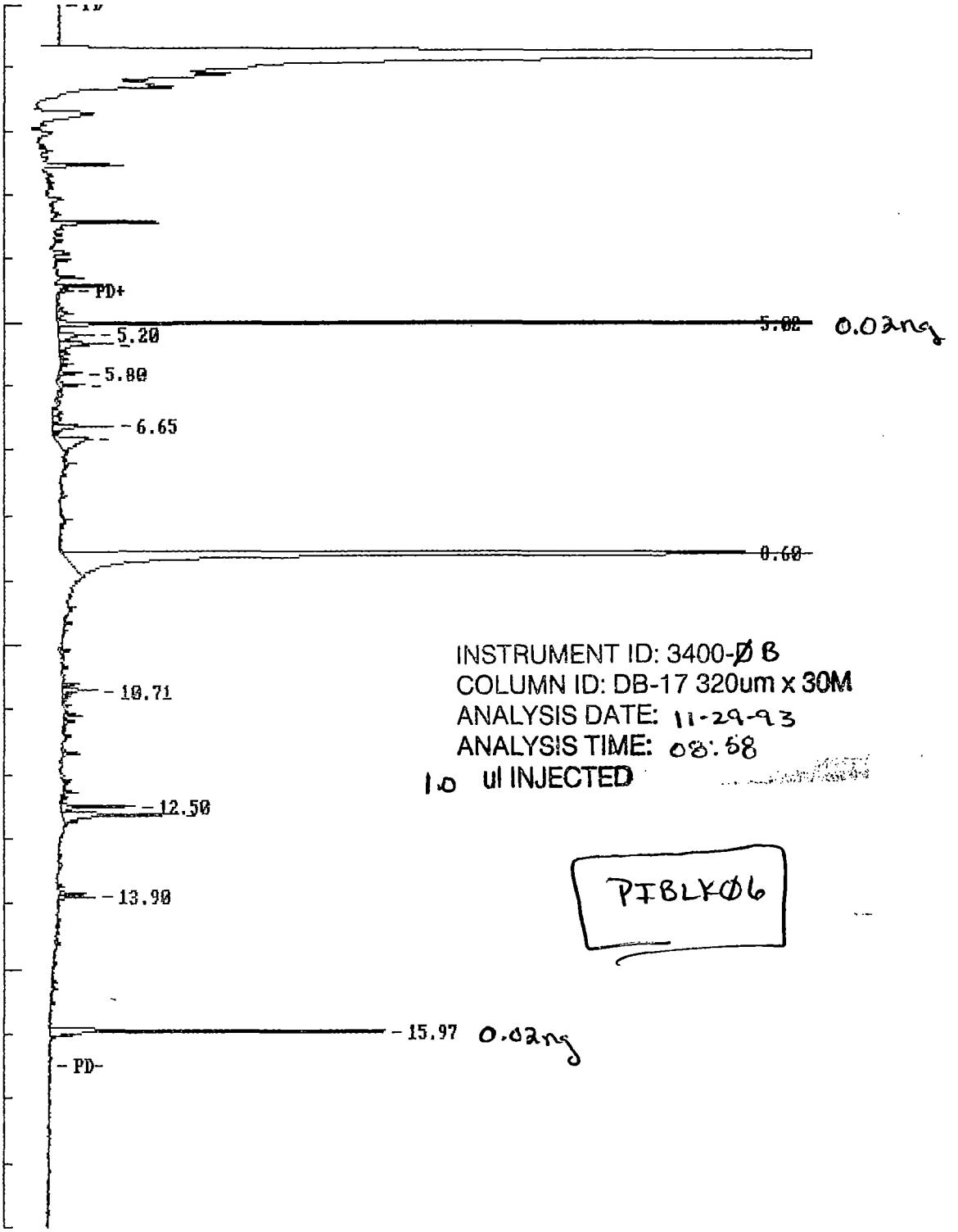
GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Areas, times, and heights stored in: O:076A54.ATB
Data File = O:076A54.PTS Printed on 12-01-1993 at 14:10:27
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 40 millivolts



Areas, times, and heights stored in: O:076B54.ATB
Data File = O:076B54.PTS Printed on 12-01-1993 at 14:11:32
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 50 millivolts



EXTERNAL STANDARD TABLE

********** 12-01-1993 14:10:23 Version 5.1 **********

* Sample Name: PIBLK06,Q,; 08:58 12-01-93 DB Data File: 0:076A54 *

* Date: 11-2~~7~~9-1993 ~~10:38:09~~ Method: 0:076AB 11-30-1993 15:14:27 # 864 *

* Interface: 1 Cycle#: 54 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	4.465	TCX	1.7448	11.6738%	59513	36076	1.6	2	2	0	2.9318E-05
18	8.140		9.2872	62.1374%	92872	29399	3.2	3			1.0000E-04
34	11.490		0.4129	2.7629%	4130	1932	2.1	1			1.0000E-04
40	12.445		0.8284	5.5426%	8284	2936	2.8	2			1.0000E-04
46	14.450	DCB	2.6729	17.8833%	27074	14799	1.8	1	2	-.1810	9.8726E-05

TOTAL AMOUNT = 14.9462

++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-01-1993 14:11:23 Version 5.1 **********

* Sample Name: PIBLK06,Q,; 08:58 12-01-93 Data File: 0:076B54 *

* Date: 11-2~~7~~9-1993 1~~0~~:3~~9~~:~~0~~0 Method: 0:076BB 11-30-1993 15:14:53 # 890 *

* Interface: 2 Cycle#: 54 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
5	5.020	TCX	0.0153	0.0507%	113020	67635	1.7	1	5	0	1.3549E-07
6	5.195		0.6926	2.2949%	6926	2194	3.2	2			1.0000E-04
7	5.335		1.0287	3.4088%	10287	3344	3.1	2			1.0000E-04
11	5.800		0.3919	1.2986%	3919	1457	2.7	1			1.0000E-04
12	6.000		0.3957	1.3113%	3957	1599	2.5	1			1.0000E-04
17	6.645		0.8974	2.9737%	8974	3762	2.4	2			1.0000E-04
19	6.845		1.3662	4.5273%	13662	2220	6.2	1			1.0000E-04
26	8.595		23.0672	76.4373%	230672	56369	4.1	1			1.0000E-04
35	10.710	Dieldrin	0.0006	0.0019%	5728	2137	2.7	2	5	.2808	9.9731E-08
47	12.500	Endo. sulfate	0.0018	0.0061%	11605	4600	2.5	2	5	0	1.5764E-07
48	12.630		2.3133	7.6657%	23133	7121	3.2	3			1.0000E-04
53	13.900	Endrin Ketone	0.0019	0.0062%	4327	2247	1.9	2	5	.4335	4.3502E-07
60	15.965	DCB	0.0053	0.0175%	50677	20764	2.4	2	5	0	1.0420E-07

TOTAL AMOUNT = 30.1779

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK07

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: PIBLK07

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

% Moisture: decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) Date Extracted:

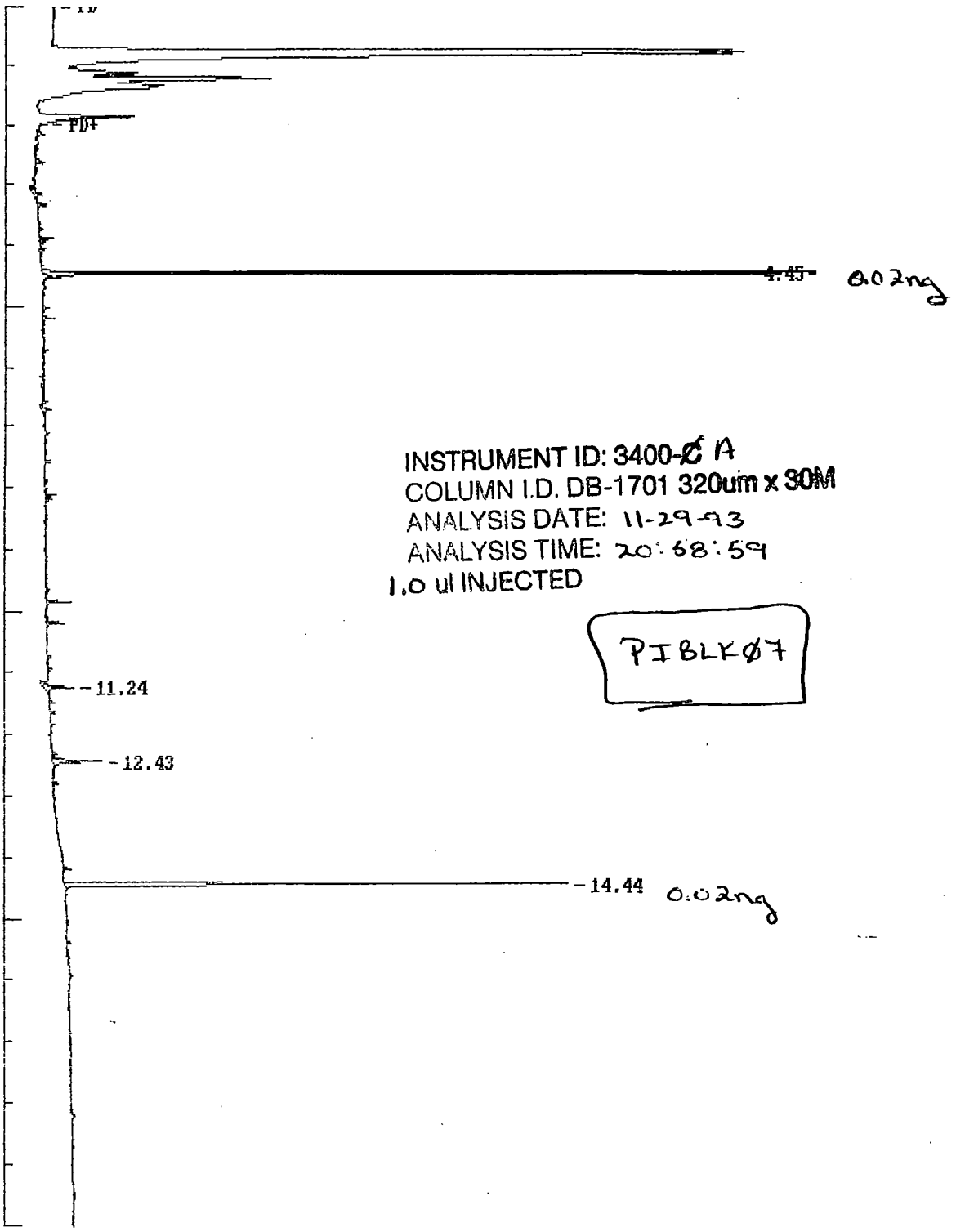
Concentrated Extract Volume: (uL) Date Analyzed: 11/29/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

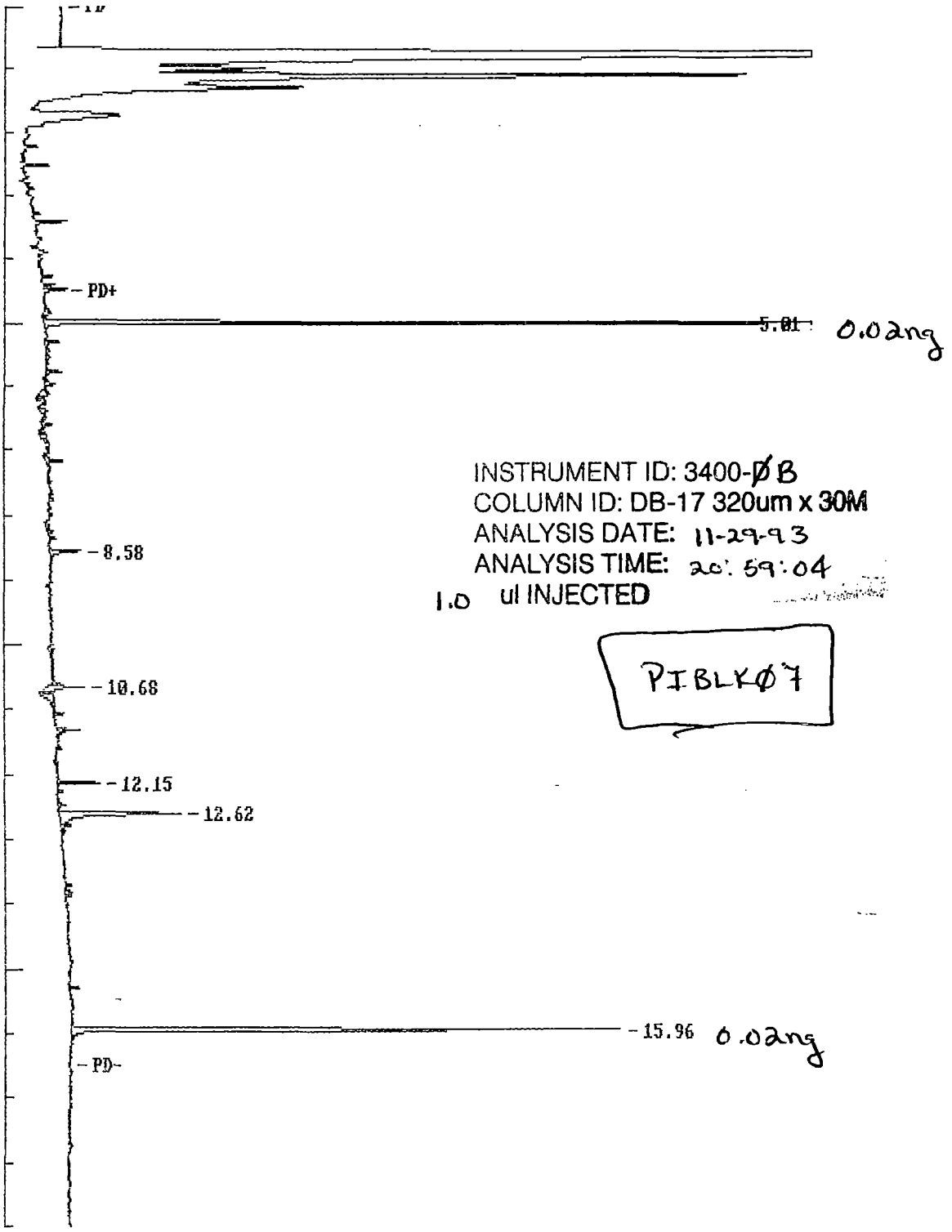
Data File = 0:076a78.PTS Printed on 12-01-1993 at 14:53:55
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 40 millivolts



11-30-93 BJB

1793

Areas, times, and heights stored in: O:076B78.ATB
Data File = O:076B78.PTS Printed on 12-01-1993 at 14:17:21
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 50 millivolts



INSTRUMENT ID: 3400-ØB
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11-29-93
ANALYSIS TIME: 20:59:04
1.0 ul INJECTED

PIBLKØ7

12-01-93

1794

++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-01-1993 14:16:16 Version 5.1 **********

* Sample Name: PIBLK07,Q,; Data File: 0:076A78 *

* Date: 11-29-1993 20:58:59 Method: 0:076AB 12-01-1993 14:10:58 # 865 *

* Interface: 1 Cycle#: 78 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.450	TCX	1.9602	27.9626%	66861	38520	1.7	1	1	0	2.9318E-05
21	12.430		0.5664	8.0798%	5664	2390	2.4	1			1.0000E-04
25	14.440	DCB	4.4835	63.9576%	45413	25103	1.8	1	1	0	9.8726E-05

TOTAL AMOUNT = 7.0101

++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-01-1993 14:17:13 Version 5.1 **********

* Sample Name: PIBLK07,Q,; Data File: 0:076B78 *

* Date: 11-29-1993 20:59:04 Method: 0:076BB 11-30-1993 15:14:53 # 890 *

* Interface: 2 Cycle#: 78 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	5.010	TCX	0.0177	0.5590%	130752	73324	1.8	1	2	0	1.3549E-07
22	8.575		0.5467	17.2505%	5467	1923	2.8	1			1.0000E-04
25	10.675	Dieldrin	0.0008	0.0241%	7664	2424	3.2	2	2	.1526	9.9731E-08
31	12.145	4,4'-DDT	0.0008	0.0241%	4685	2616	1.8	1	2	0	1.6277E-07
34	12.615		2.5948	81.8698%	25948	7587	3.4	2			1.0000E-04
43	15.955	DCB	0.0086	0.2726%	82902	34369	2.4	1	2	.1054	1.0420E-07

TOTAL AMOUNT = 3.1694

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLK08

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: PIBLK08

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

% Moisture: decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) Date Extracted:

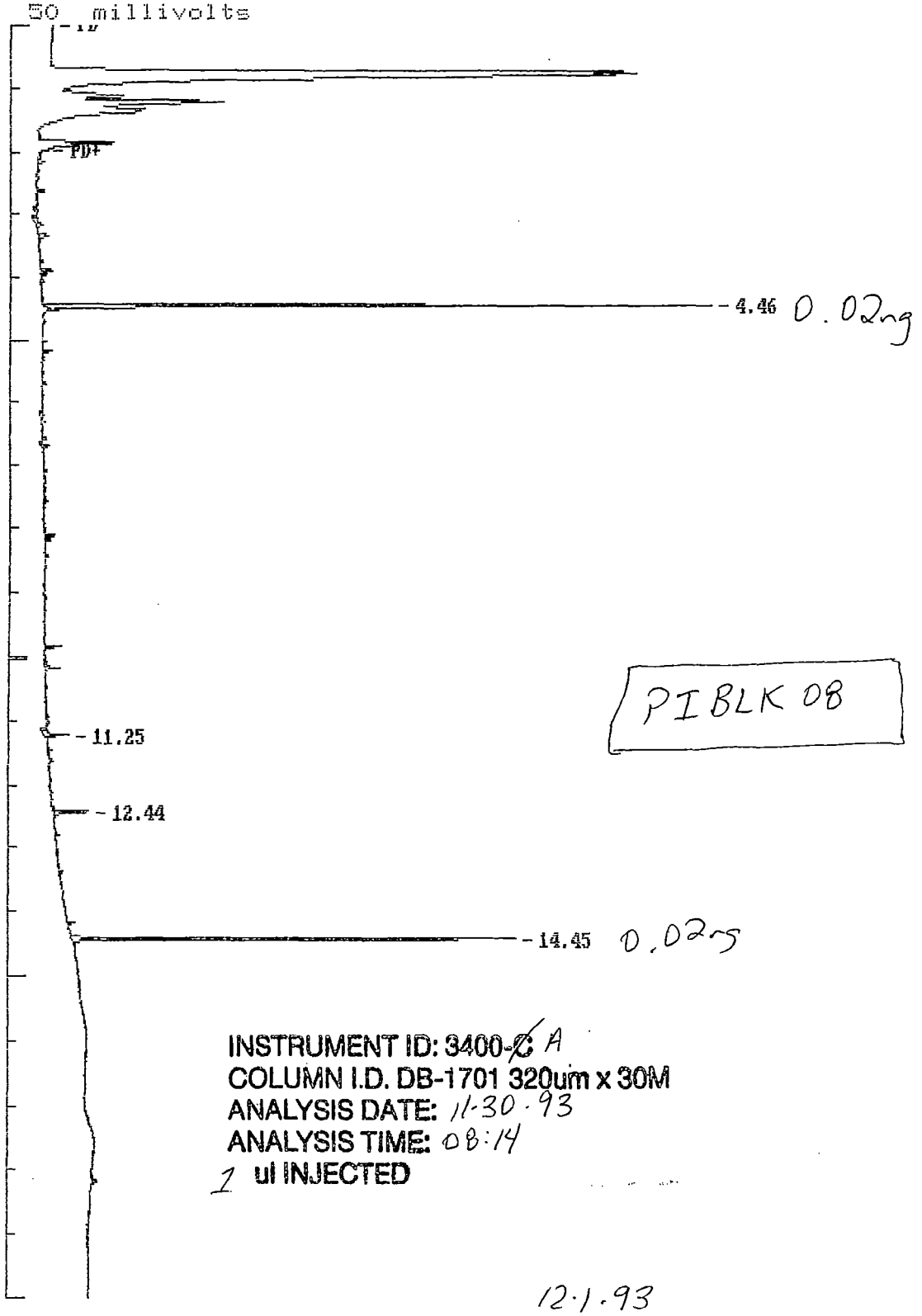
Concentrated Extract Volume: (uL) Date Analyzed: 11/30/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

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
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

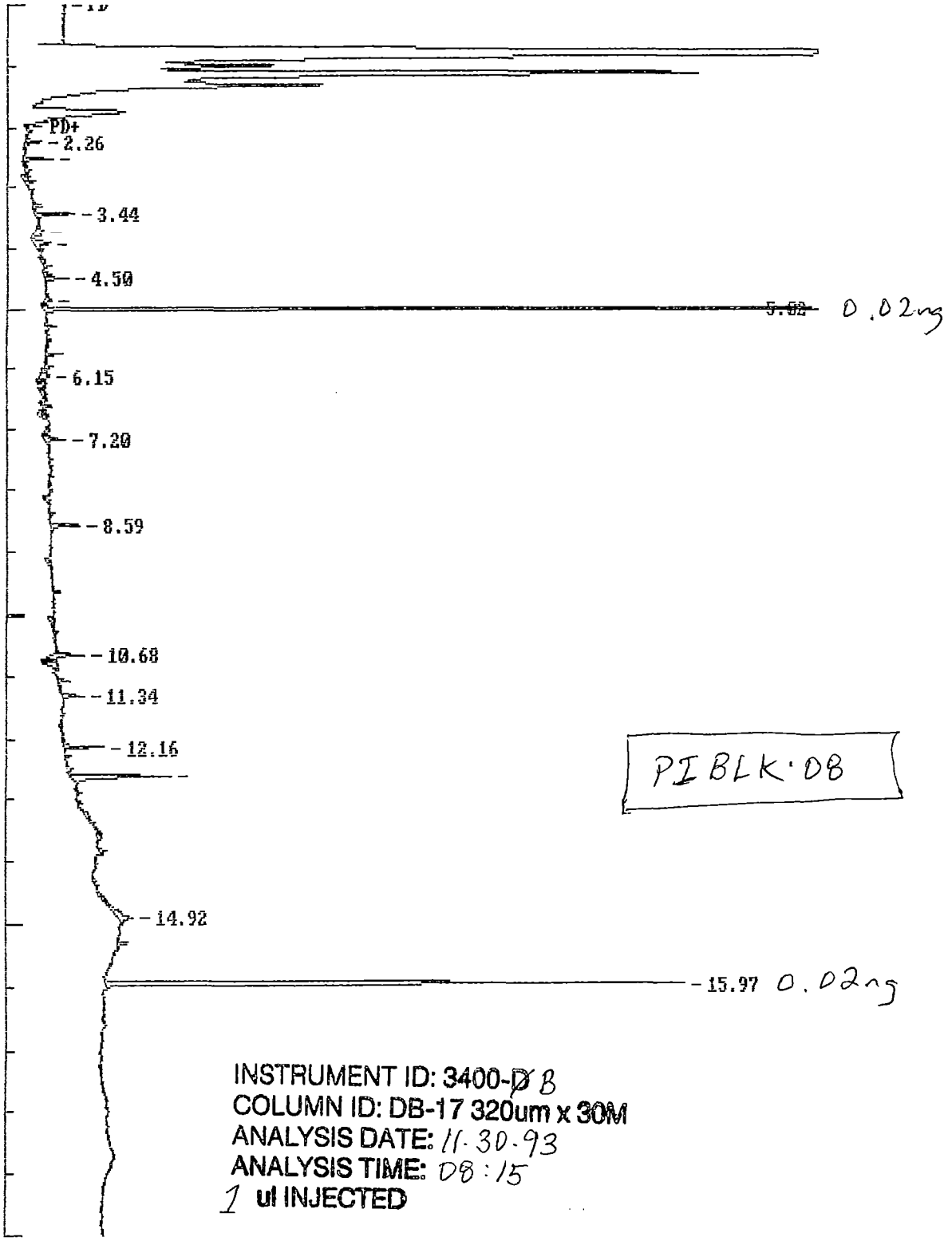
Areas, times, and heights stored in: O:076B104.ATB
Data File = O:076A103.PTS Printed on 12-01-1993 at 16:00:05
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 50 millivolts



INSTRUMENT ID: 3400-~~C~~ A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-30-93
ANALYSIS TIME: 08:14
1 ul INJECTED

12-1-93
BMG

Data File = O:076B103.PTS Printed on 12-01-1993 at 16:02:07
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 50 millivolts



PI BLK·DB

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11·30·93
ANALYSIS TIME: 08:15
1 ul INJECTED

12·1·93
BMG

++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-01-1993 15:31:01 Version 5.1 **********

* Sample Name: PIBLK08,Q,; Data File: O:076A103 *

* Date: 11-30-1993 08:14:57 Method: O:076AB 12-01-1993 15:30:06 # 869 *

* Interface: 1 Cycle#: 103 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.460	TCX	2.0494	27.2942%	69904	39895	1.8	1	1	0	2.9318E-05
17	11.245	4,4'-DDT <CRQL	0.3028	4.0327%	3522	1421	2.5	1	1	0	8.5967E-05
20	12.435		0.4681	6.2340%	4681	2106	2.2	1			1.0000E-04
24	14.450	DCB	4.6883	62.4390%	47488	26745	1.8	1	1	0	9.8726E-05

TOTAL AMOUNT = 7.5087

12-1-93
BYG

Areas, times, and heights stored in: 0:076A104.ATB

++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-01-1993 15:31:20 Version 5.1 **********

* Sample Name: PIBLK08,0,; Data File: 0:076B103 *

* Date: 11-30-1993 08:15:07 Method: 0:076BB 12-01-1993 15:30:19 # 894 *

* Interface: 2 Cycle#: 103 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
2	5.015	TCX	0.0184	0.5883%	135785	77669	1.7	1	2	0	1.3549E-07
9	6.150		0.3622	11.5812%	3622	681	5.3	2			1.0000E-04
17	7.200	gamma-BHC	0.0004	0.0112%	3814	1251	3.0	1	2	0	9.1880E-08
21	8.585		0.5196	16.6146%	5196	1841	2.8	1			1.0000E-04
26	10.680	Dieldrin	0.0007	0.0212%	6653	2033	3.3	1	2	0	9.9731E-08
34	12.155	4,4'-DDT	0.0008	0.0263%	5050	2443	2.1	2	2	0	1.6277E-07
37	12.625		1.6806	53.7386%	16806	6059	2.8	1			1.0000E-04
45	14.915		0.5360	17.1394%	5360	821	6.5	1			1.0000E-04
47	15.965	DCB	0.0087	0.2792%	83805	36016	2.3	1	2	0	1.0420E-07

TOTAL AMOUNT = 3.1274

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ02MS

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: 23944MS

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 21 decanted: (Y/N) N Date Received: 11/04/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/93

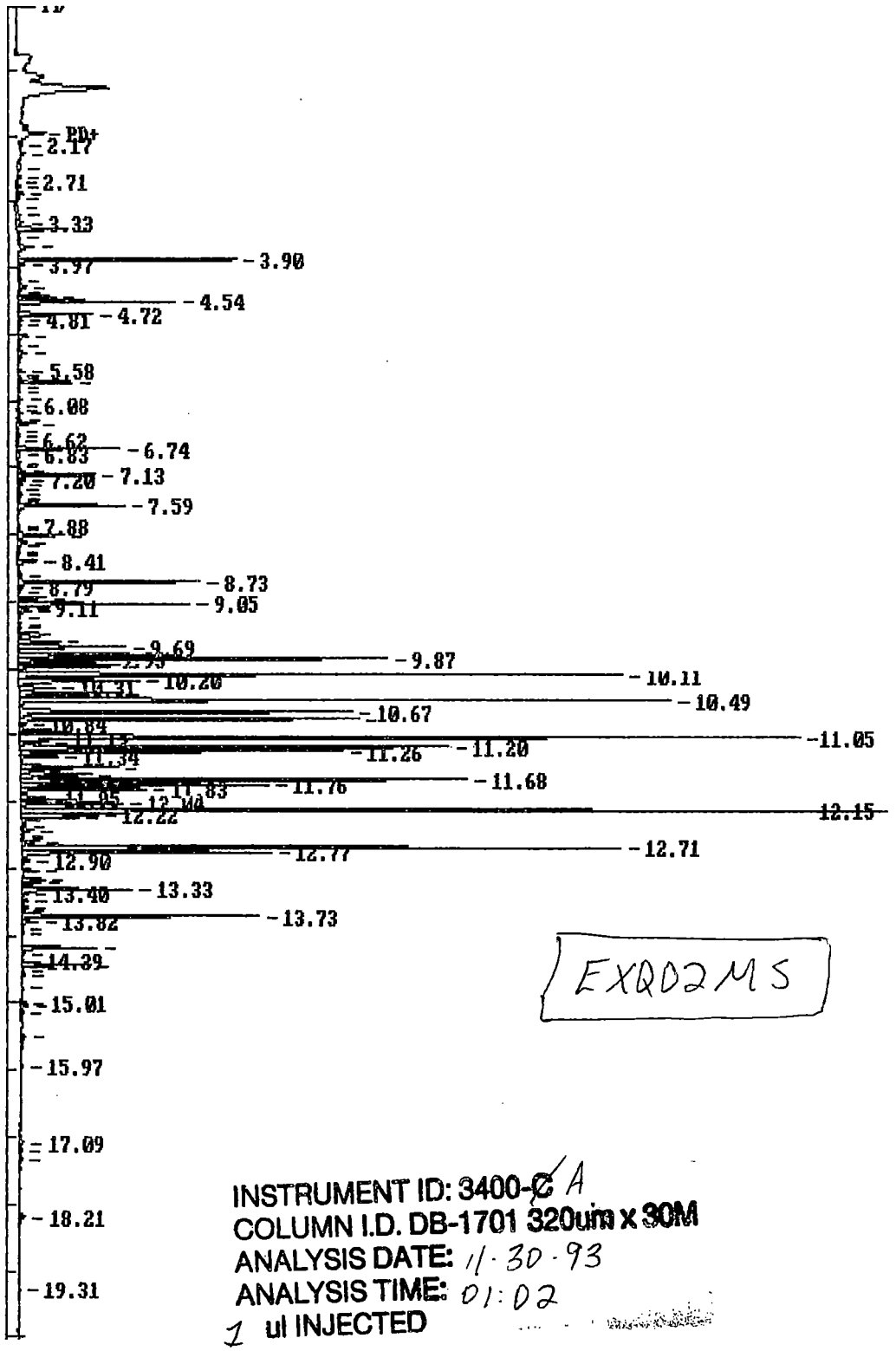
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	9.2	
76-44-8	Heptachlor	9.0	
309-00-2	Aldrin	11	
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	22	P
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	23	P
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	78	P
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	1500	

Data File = 0:076A87.PTS Printed on 11-30-1993 at 11:31:19
Start time: 0.00 min. Stop time: 20.02 min. Offset: 0 mv.
Full Range: 600 millivolts



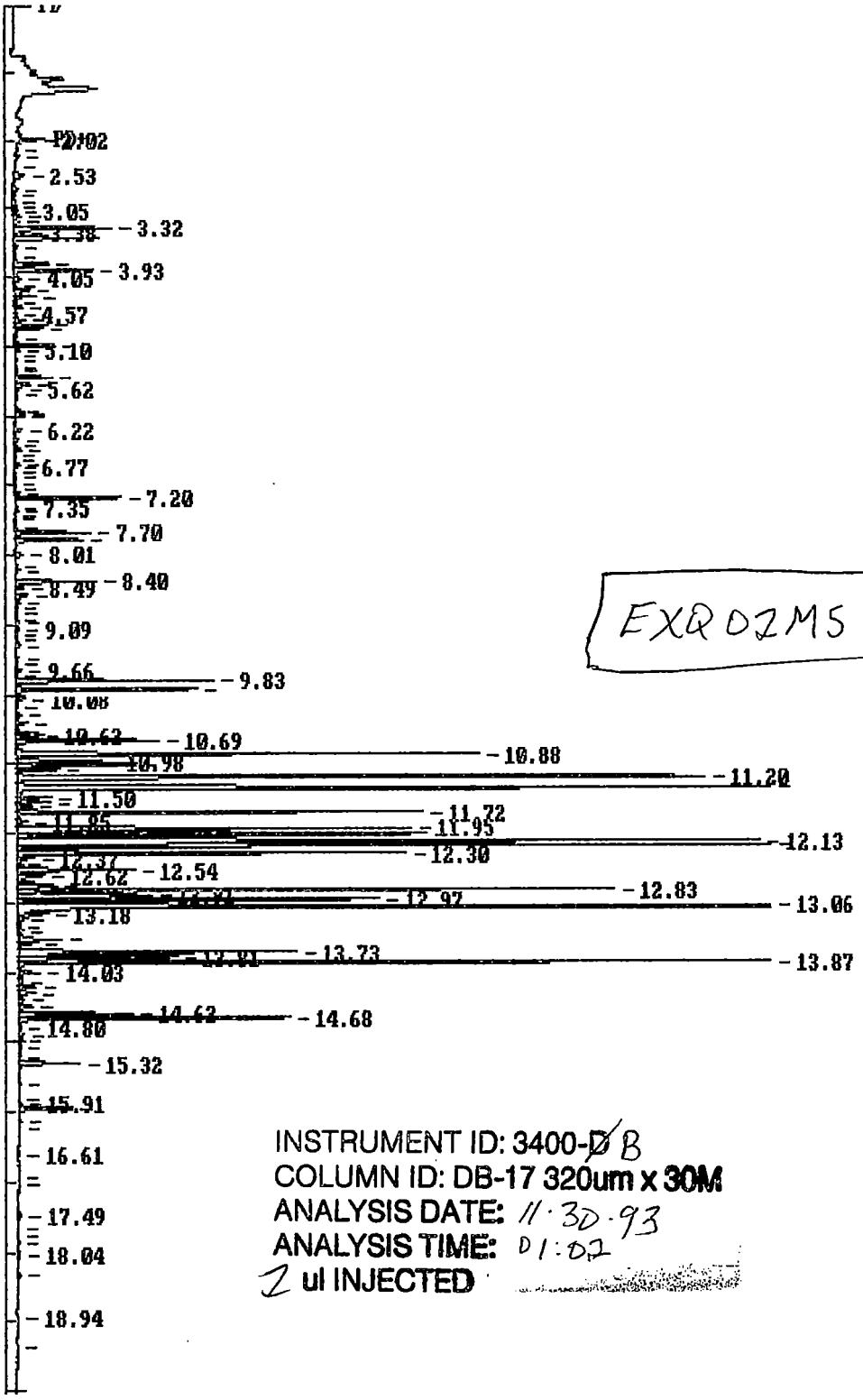
EXR02MS

INSTRUMENT ID: 3400-~~C~~ A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11·30·93
ANALYSIS TIME: 01:02
1 ul INJECTED

11·30·93
BMG

1803

Data File = O:076B87.PTS Printed on 11-30-1993 at 13:16:37
Start time: 0.00 min. Stop time: 20.02 min. Offset: 0 mv.
Full Range: 1200 millivolts



EXQ02M5

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11·30·93
ANALYSIS TIME: 01:02
1 ul INJECTED

11·30-93
BMG

1804

EXTERNAL STANDARD TABLE

********** 11-30-1993 11:04:54 Version 5.1 **********

* Sample Name: EXQ02MS/23944MS,,; Data File: Q:076A87 *
* Date: 11-30-1993 01:02:23 Method: Q:076AB 11-30-1993 10:37:36 # 862 *
* Interface: 1 Cycle#: 87 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.310		1.2754	0.1032%	12754	4923	2.6	2			1.0000E-04
3	4.460	TCX	1.3677	0.1107%	46650	25402	1.8	2	3	0	2.9318E-05
4	4.535		17.7462	1.4366%	177462	106287	1.7	3			1.0000E-04
6	4.720		9.3235	0.7548%	93235	50581	1.8	2			1.0000E-04
7	4.805		0.5721	0.0463%	5721	2395	2.4	2			1.0000E-04
10	5.050		1.7217	0.1394%	17217	6174	2.8	2			1.0000E-04
12	5.195		0.3823	0.0309%	3823	1368	2.8	2			1.0000E-04
13	5.300		1.0675	0.0864%	10675	5880	1.8	2			1.0000E-04
16	5.575		0.8909	0.0721%	8909	4645	1.9	2			1.0000E-04
18	5.685		0.3658	0.0296%	3658	1694	2.2	2			1.0000E-04
19	5.740		6.3456	0.5137%	63456	36821	1.7	2			1.0000E-04
20	5.815		0.3760	0.0304%	3760	1508	2.5	2			1.0000E-04
21	5.890		0.4521	0.0366%	4521	1735	2.6	2			1.0000E-04
22	5.995	alpha-BHC <CRQL	0.8921	0.0722%	8496	3596	2.4	2	3	-.5804	1.0500E-04
23	6.075		0.3898	0.0316%	3898	1223	3.2	2			1.0000E-04
25	6.200		0.9576	0.0775%	9576	3904	2.5	2			1.0000E-04
26	6.305		0.7074	0.0573%	7074	2846	2.5	2			1.0000E-04
27	6.350		2.8500	0.2307%	28500	12733	2.2	3			1.0000E-04
29	6.545		0.5591	0.0453%	5591	1490	3.8	2			1.0000E-04
30	6.615		0.3549	0.0287%	3549	938	3.8	2			1.0000E-04
31	6.735	gamma-BHC Spk Cmpd	8.7304	0.7067%	113009	69641	1.6	2	3	0	7.7254E-05
32	6.825		0.6678	0.0541%	6678	1747	3.8	2			1.0000E-04
33	6.940		0.6110	0.0495%	6110	2127	2.9	2			1.0000E-04
35	7.070		0.9731	0.0788%	9731	5367	1.8	2			1.0000E-04
36	7.125	Heptachlor Spk Cmpd	7.5917	0.6146%	92040	52674	1.7	2	3	0	8.2462E-05
37	7.200		1.1312	0.0916%	11312	4936	2.3	2			1.0000E-04
38	7.275		0.9414	0.0762%	9414	3132	3.0	2			1.0000E-04
40	7.415		0.5448	0.0441%	5448	2467	2.2	2			1.0000E-04
41	7.465		0.3721	0.0301%	3721	1930	1.9	2			1.0000E-04
43	7.585	Aldrin Spk Cmpd	9.1458	0.7404%	125418	72088	1.7	3	3	0	7.2922E-05
47	8.025		6.4653	0.5234%	64653	30993	2.1	2			1.0000E-04
48	8.130		1.4112	0.1142%	14112	5745	2.5	2			1.0000E-04
49	8.190		0.4044	0.0327%	4044	1723	2.3	2	11-30-93		1.0000E-04
50	8.260		0.3609	0.0292%	3609	1071	3.4	2	BMG		1.0000E-04
53	8.410	delta-BHC Conf-	2.4162	0.1956%	27363	13047	2.1	2	3	-.3554	8.8302E-05
55	8.615		0.5721	0.0463%	5721	2459	2.3	2			1.0000E-04
56	8.725		21.1409	1.7114%	211409	122484	1.7	2			1.0000E-04
57	8.790	Hept. epoxide <CRQL	0.6751	0.0546%	7709	3829	2.0	2	3	1805	8.7570E-05
59	8.960		2.8398	0.2299%	28398	18209	1.6	1			1.0000E-04
60	9.050		20.2415	1.6386%	202415	115415	1.8	2			1.0000E-04
61	9.105		1.5173	0.1228%	15173	7410	2.0	2			1.0000E-04

68	9.490	a. Chlordane < CRQL	1.2762	0.1033%	16117	8564	1.9	2	3	.1054	7.9185E-05
69	9.545		0.3730	0.0302%	3730	1990	1.9	2			1.0000E-04
70	9.610		5.6505	0.4574%	56505	28260	2.0	2			1.0000E-04
71	9.685	4,4'-DDE	16.9226	1.3699%	153285	72732	2.1	2	3	.2588	1.1040E-04
72	9.810		15.9367	1.2901%	159367	92696	1.7	2			1.0000E-04
73	9.865	Dieldrin Spk Cmpd	61.5715	4.9843%	476442	252242	1.9	2	3	.0507	1.2923E-04
74	9.930		9.2401	0.7480%	92401	52269	1.8	2			1.0000E-04
75	9.975		12.7616	1.0331%	127616	68669	1.9	2			1.0000E-04
76	10.105	AR 1260-1	69.1416	5.5971%	691416	413101	1.7	2			1.0000E-04
77	10.200	Endrin Spk Cmpd	18.2446	1.4769%	180475	81744	2.2	2	3	0	1.0109E-04
78	10.310		5.9950	0.4853%	59950	24316	2.5	2			1.0000E-04
79	10.385		13.6772	1.1072%	136772	68757	2.0	2			1.0000E-04
80	10.485		74.7845	6.0539%	747846	446325	1.7	2			1.0000E-04
81	10.670		45.5093	3.6841%	455093	227111	2.0	2			1.0000E-04
82	10.770		43.4707	3.5190%	434707	231877	1.9	2			1.0000E-04
83	10.840		1.0385	0.0841%	10385	4234	2.5	2			1.0000E-04
84	10.955	4,4'-DDD Breakdown	4.1417	0.3353%	42798	21869	2.0	2	3	-.0456	9.6772E-05
85	11.045	AR 1260-2	112.6466	9.1189%	1126467	534619	2.1	2			1.0000E-04
86	11.120		3.6230	0.2933%	36230	18757	1.9	2			1.0000E-04
87	11.195		52.9519	4.2865%	529519	293246	1.8	2			1.0000E-04
88	11.255	4,4'-DDT Spk Cmpd	40.3757	3.2685%	469663	220579	2.1	2	3	0	8.5967E-05
89	11.340		5.2160	0.4222%	52160	25478	2.0	3			1.0000E-04
91	11.495		11.9263	0.9655%	119263	65921	1.8	2			1.0000E-04
92	11.540		2.6880	0.2176%	26880	14498	1.9	2			1.0000E-04
93	11.605		12.1389	0.9827%	121389	48186	2.5	2			1.0000E-04
94	11.675	Endrin Aldehyde AR1260	51.5401	4.1723%	555785	306080	1.8	2	3	.2145	9.2734E-05
95	11.760		29.6509	2.4003%	296509	168304	1.8	2			1.0000E-04
96	11.825		15.8744	1.2851%	158744	84934	1.9	2			1.0000E-04
97	11.945		1.8822	0.1524%	18822	12218	1.5	2			1.0000E-04
98	11.980		7.3545	0.5954%	73545	37427	2.0	2			1.0000E-04
99	12.035		12.5025	1.0121%	125025	68871	1.8	2			1.0000E-04
100	12.145	AR 1260-3	123.4122	9.9904%	1234123	721526	1.7	2			1.0000E-04
101	12.215	Endo. sulfate AR1260	14.5916	1.1812%	130744	52000	2.5	2	3	.2873	1.1160E-04
102	12.250		8.9998	0.7286%	89998	38944	2.3	3			1.0000E-04
103	12.375	Methoxychlor AR1260	1.8011	0.1458%	6666	2883	2.3	4	3	.4464	2.7021E-04
104	12.435		2.2063	0.1786%	22063	8244	2.7	2			1.0000E-04
105	12.530		0.4000	0.0324%	4000	1836	2.2	2			1.0000E-04
106	12.560		0.3825	0.0310%	3825	1824	2.1	2			1.0000E-04
107	12.615		2.4276	0.1965%	24276	12110	2.0	2			1.0000E-04
108	12.705	AR 1260-4	87.2132	7.0601%	872132	410670	2.1	2			1.0000E-04
109	12.765	Endrin Ketone AR1260	14.9282	1.2085%	333573	169876	2.0	2	3	-.2734	4.4753E-05
110	12.895		1.5112	0.1223%	15112	5183	2.9	2			1.0000E-04
111	13.050		1.8772	0.1520%	18773	11112	1.7	1			1.0000E-04
112	13.180		2.6961	0.2183%	26961	15026	1.8	2			1.0000E-04
113	13.220		3.3788	0.2735%	33788	12759	2.6	2			1.0000E-04
114	13.330		13.2576	1.0732%	132576	74734	1.8	2			1.0000E-04
115	13.395		0.8438	0.0683%	8438	3680	2.3	2			1.0000E-04
116	13.495		0.8421	0.0682%	8421	4213	2.0	2			1.0000E-04
117	13.595		1.0735	0.0869%	10735	3924	2.7	2			1.0000E-04
118	13.645		0.4897	0.0396%	4897	2398	2.0	2			1.0000E-04
119	13.725	AR 1260-5	28.8546	2.3358%	288546	161278	1.8	2			1.0000E-04
120	13.815		2.2729	0.1840%	22729	11119	2.0	2			1.0000E-04
122	13.980		0.3539	0.0287%	3539	1187	3.0	2			1.0000E-04
124	14.195		9.1744	0.7427%	91744	51381	1.8	2			1.0000E-04
125	14.280		0.5494	0.0445%	5494	1997	2.8	2			1.0000E-04
128	14.450	DCB	8.6451	0.6998%	87566	46878	1.9	2	3	0	9.8726E-05
129	14.540		0.4997	0.0404%	4997	1769	2.8	2			1.0000E-04
130	14.600		1.0653	0.0862%	10653	2453	4.3	2			1.0000E-04
132	14.790		0.7082	0.0573%	7082	1549	4.6	2			1.0000E-04
134	15.010		0.6616	0.0536%	6616	3103	2.1	2			1.0000E-04
135	15.055		1.1599	0.0939%	11599	4604	2.5	2			1.0000E-04

TOTAL AMOUNT = 1235.3049

076A87
P2
11-30-93
BMG

EXTERNAL STANDARD TABLE

********** 11-30-1993 12:31:06 Version 5.1 **********

* Sample Name: EXQ02MS/23944MS,,; Data File: 0:076B87 *
* Date: 11-30-1993 01:02:29 Method: 0:076BB 11-30-1993 11:14:42 # 886 *
* Interface: 2 Cycle#: 87 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

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Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.570		0.5448	0.0271%	5448	1653	3.3	2			1.0000E-04
2	4.645		2.6811	0.1333%	26811	13553	2.0	2			1.0000E-04
3	4.715		7.6826	0.3819%	76826	42864	1.8	2			1.0000E-04
4	4.760		7.0303	0.3495%	70303	36238	1.9	2			1.0000E-04
5	4.890		1.8036	0.0897%	18036	3351	5.4	2			1.0000E-04
6	4.970		1.0586	0.0526%	10586	4375	2.4	2			1.0000E-04
7	5.015	TCX	0.0135	0.0007%	99600	52186	1.9	3	7	0	1.3549E-07
8	5.095		1.1317	0.0563%	11317	5288	2.1	4			1.0000E-04
10	5.230		1.1407	0.0567%	11407	2519	4.5	2			1.0000E-04
11	5.330		0.4750	0.0236%	4750	2335	2.0	2			1.0000E-04
12	5.375		0.9264	0.0461%	9264	2465	3.8	2			1.0000E-04
13	5.470		8.1077	0.4031%	81077	47429	1.7	2			1.0000E-04
14	5.575		4.7006	0.2337%	47006	19554	2.4	2			1.0000E-04
15	5.620		2.0854	0.1037%	20854	8319	2.5	2			1.0000E-04
16	5.700		0.5433	0.0270%	5433	2438	2.2	2			1.0000E-04
18	5.945		1.4092	0.0701%	14092	6008	2.3	2			1.0000E-04
19	5.990		2.5631	0.1274%	25631	12757	2.0	2			1.0000E-04
20	6.030		2.6809	0.1333%	26809	12332	2.2	2			1.0000E-04
21	6.220		2.0437	0.1016%	20437	9186	2.2	2			1.0000E-04
22	6.355		1.4758	0.0734%	14758	5553	2.7	2			1.0000E-04
23	6.450	alpha-BHC	0.0005	0.0000%	6169	2871	2.1	2	7	.2551	7.3132E-08
24	6.515		1.5361	0.0764%	15361	8318	1.8	2			1.0000E-04
27	6.725		1.3398	0.0666%	13398	6655	2.0	2			1.0000E-04
28	6.765		0.5147	0.0256%	5147	2617	2.0	2			1.0000E-04
30	6.885		0.8201	0.0408%	8201	2232	3.7	2			1.0000E-04
33	7.125		1.1090	0.0551%	11090	6298	1.8	2			1.0000E-04
34	7.200	gamma-BHC	0.0211	0.0010%	229621	139158	1.7	2	7	0	9.1880E-08
35	7.345		0.3644	0.0181%	3644	2012	1.8	2			1.0000E-04
36	7.385	beta-BHC	0.0020	0.0001%	7335	3901	1.9	2	7	.1675	2.7691E-07
40	7.635		1.0235	0.0509%	10235	3834	2.7	2			1.0000E-04
41	7.695		18.2229	0.9059%	182229	98755	1.8	2			1.0000E-04
42	7.795	Heptachlor	0.0221	0.0011%	198437	88466	2.2	2	7	0	1.1145E-07
43	8.010		3.2343	0.1608%	32343	9988	3.2	2			1.0000E-04
44	8.185		0.4860	0.0242%	4860	2104	2.3	2			1.0000E-04
45	8.240		1.2162	0.0605%	12162	4794	2.5	2			1.0000E-04
46	8.395	Aldrin	0.0186	0.0009%	226919	105866	2.1	2	7	.1593	8.1798E-08
47	8.490		2.1126	0.1050%	21126	10630	2.0	2			1.0000E-04
48	8.585		5.5777	0.2773%	55777	16460	3.4	2			1.0000E-04
49	8.705		1.2140	0.0604%	12140	4785	2.5	2			1.0000E-04
53	8.990		1.1993	0.0596%	11993	3962	3.0	2			1.0000E-04
54	9.085		0.5612	0.0279%	5612	3043	1.8	2			1.0000E-04

1807

60	9.465	Hept. Epoxide	0.0010	0.0000%	9120	4637	2.0	2	7	.1324	1.0348E-07
61	9.565		0.3710	0.0184%	3710	2506	1.5	2			1.0000E-04
63	9.660		1.9144	0.0952%	19144	7260	2.6	2			1.0000E-04
64	9.725	g. Chlordane	0.0004	0.0000%	4267	2045	2.1	2	7	-.4632	9.2400E-08
65	9.825		45.5438	2.2642%	455438	260083	1.8	2			1.0000E-04
66	9.945		43.3378	2.1545%	433378	238708	1.8	2			1.0000E-04
67	10.080	a. Chlordane	0.0032	0.0002%	35339	11478	3.1	3	7	0	9.1302E-08
70	10.310		2.0211	0.1005%	20211	7091	2.9	2			1.0000E-04
71	10.425		3.4998	0.1740%	34998	14783	2.4	2			1.0000E-04
72	10.525		1.0494	0.0522%	10494	4274	2.5	2			1.0000E-04
73	10.570		2.9475	0.1465%	29475	13314	2.2	2			1.0000E-04
74	10.620	4,4'-DDE	0.0065	0.0003%	58125	29552	2.0	2	7	.0996	1.1134E-07
75	10.685	Dieldrin	0.0350	0.0017%	350926	188050	1.9	2	7	.1465	9.9731E-08
76	10.875	AR 1260-1	114.5606	5.6953%	1145606	609502	1.9	2			1.0000E-04
77	10.975		21.1365	1.0508%	211365	111081	1.9	2			1.0000E-04
78	11.025		45.9211	2.2829%	459211	158829	2.9	2			1.0000E-04
79	11.095		12.7218	0.6325%	127218	56809	2.2	2			1.0000E-04
80	11.200	AR 1260-2	184.7616	9.1853%	1847616	907791	2.0	2			1.0000E-04
81	11.350	Endrin	0.2868	0.0143%	2364404	993786	2.4	OV	7	.1879	1.2132E-07
82	11.500		9.1353	0.4542%	91353	45223	2.0	2			1.0000E-04
83	11.565		8.5955	0.4273%	85955	44145	1.9	2			1.0000E-04
84	11.620	4,4'-DDD	0.0071	0.0004%	52621	19734	2.7	2	7	0	1.3477E-07
85	11.715	Endosulfan II	0.0912	0.0045%	915494	534572	1.7	2	7	.3996	9.9585E-08
86	11.850		3.7557	0.1867%	37557	13591	2.8	2			1.0000E-04
87	11.945		129.7190	6.4489%	1297191	519694	2.5	2			1.0000E-04
88	12.030		98.8865	4.9161%	988865	538765	1.8	2			1.0000E-04
89	12.130	4,4'-DDT	0.3722	0.0185%	2286546	978908	2.3	2	7	-.1472	1.6277E-07
90	12.185		188.7230	9.3822%	1887230	993116	1.9	OV			1.0000E-04
91	12.300	Endrin Aldehyde	0.1766	0.0088%	1012666	511599	2.0	2	7	.2627	1.7436E-07
92	12.370		4.8861	0.2429%	48861	22441	2.2	2			1.0000E-04
93	12.445		0.9928	0.0494%	9928	4632	2.1	2			1.0000E-04
94	12.490	Endo. sulfate	0.0031	0.0002%	19613	8678	2.3	2	7	0	1.5764E-07
95	12.540		29.0493	1.4442%	290493	154586	1.9	2			1.0000E-04
96	12.620		10.8923	0.5415%	108923	34738	3.1	2			1.0000E-04
97	12.730		5.0601	0.2516%	50601	22177	2.3	2			1.0000E-04
98	12.770		10.6794	0.5309%	106794	52100	2.0	2			1.0000E-04
99	12.825	AR 1260-3	134.0123	6.6623%	1340123	788408	1.7	2			1.0000E-04
100	12.910		44.0817	2.1915%	440817	176673	2.5	2			1.0000E-04
101	12.970		103.5893	5.1499%	1035893	475756	2.2	2			1.0000E-04
102	13.055	AR 1260-4	290.8554	14.4597%	2908554	992418	2.9	OV			1.0000E-04
103	13.175		10.7722	0.5355%	107722	34365	3.1	4			1.0000E-04
104	13.265		2.3409	0.1164%	23409	7886	3.0	2			1.0000E-04
105	13.365		1.0394	0.0517%	10394	2826	3.7	2			1.0000E-04
106	13.410		2.2513	0.1119%	22513	7209	3.1	2			1.0000E-04
107	13.545		13.5910	0.6757%	135910	57868	2.3	2			1.0000E-04
108	13.585		6.3926	0.3178%	63926	26098	2.4	2			1.0000E-04
109	13.725	Methoxychlor	0.1131	0.0056%	907431	367281	2.5	2	7	0	1.2466E-07
110	13.805	Endrin Ketone	0.1698	0.0084%	390418	208921	1.9	2	7	-.1534	4.3502E-07
111	13.865	AR 1260-5	180.2619	8.9616%	1802619	991768	1.8	OV			1.0000E-04
112	14.030		7.0369	0.3498%	70369	27670	2.5	2			1.0000E-04
113	14.140		2.9307	0.1457%	29307	5393	5.4	2			1.0000E-04
114	14.225		4.6599	0.2317%	46599	22852	2.0	2			1.0000E-04
115	14.315		5.4630	0.2716%	54630	21833	2.5	2			1.0000E-04
116	14.410		2.5046	0.1245%	25046	7097	3.5	2			1.0000E-04
117	14.510		5.2383	0.2604%	52383	18384	2.8	2			1.0000E-04
118	14.615		28.1741	1.4007%	281741	150010	1.9	2			1.0000E-04
119	14.675		66.0239	3.2823%	660239	357217	1.8	2			1.0000E-04
120	14.800		1.2056	0.0599%	12056	2280	5.3	2			1.0000E-04
121	14.910		2.1666	0.1077%	21666	7066	3.1	2			1.0000E-04
122	14.980		1.6100	0.0800%	16100	3430	4.7	2			1.0000E-04
123	15.095		0.8608	0.0428%	8608	2034	4.2	2			1.0000E-04
124	15.215		0.8435	0.0419%	8435	1945	4.3	2			1.0000E-04
125	15.320		17.2420	0.8572%	172420	79086	2.2	2			1.0000E-04
129	15.905		0.8639	0.0429%	8639	3122	2.8	2			1.0000E-04
130	15.960	DCB	0.0178	0.0009%	170601	69387	2.5	2	7	0	1.0420E-07

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ02MSD

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) SOIL Lab Sample ID: 23944MSD

Sample wt/vol: 30.0 (g/mL) G Lab File ID:

% Moisture: 21 decanted: (Y/N) N Date Received: 11/04/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/93

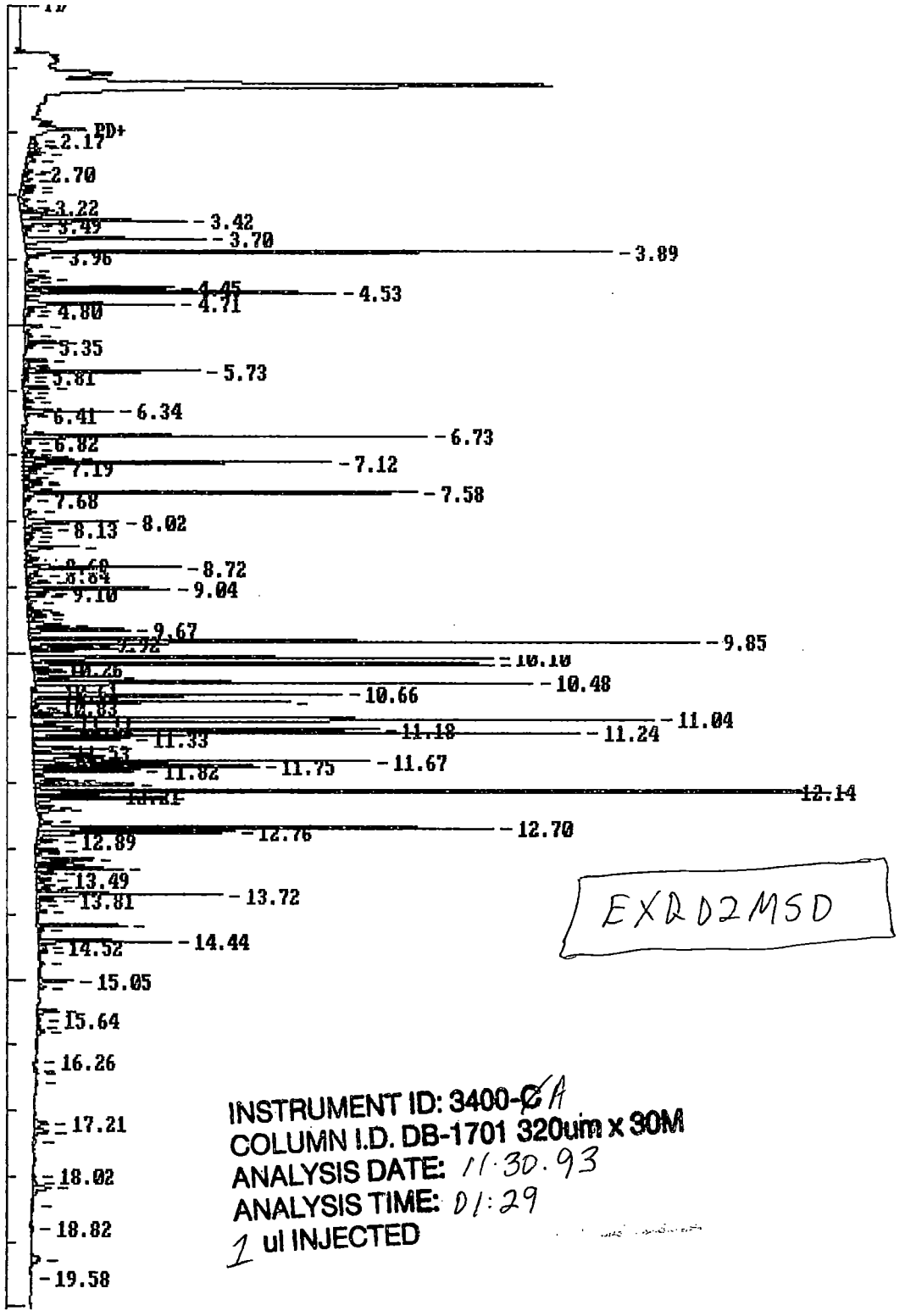
Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/30/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	16	
76-44-8	Heptachlor	15	
309-00-2	Aldrin	17	
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	30	
72-55-9	4,4'-DDE	4.2	U
72-20-8	Endrin	31	P
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	57	P
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	2.2	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	510	

Data File = 0:076A88.PTS Printed on 11-30-1993 at 11:32:20
Start time: 0.00 min. Stop time: 20.01 min. Offset: 0 mv.
Full Range: 250 millivolts



EXD2MSD

INSTRUMENT ID: 3400-GA
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11.30.93
ANALYSIS TIME: 01:29
1 ul INJECTED

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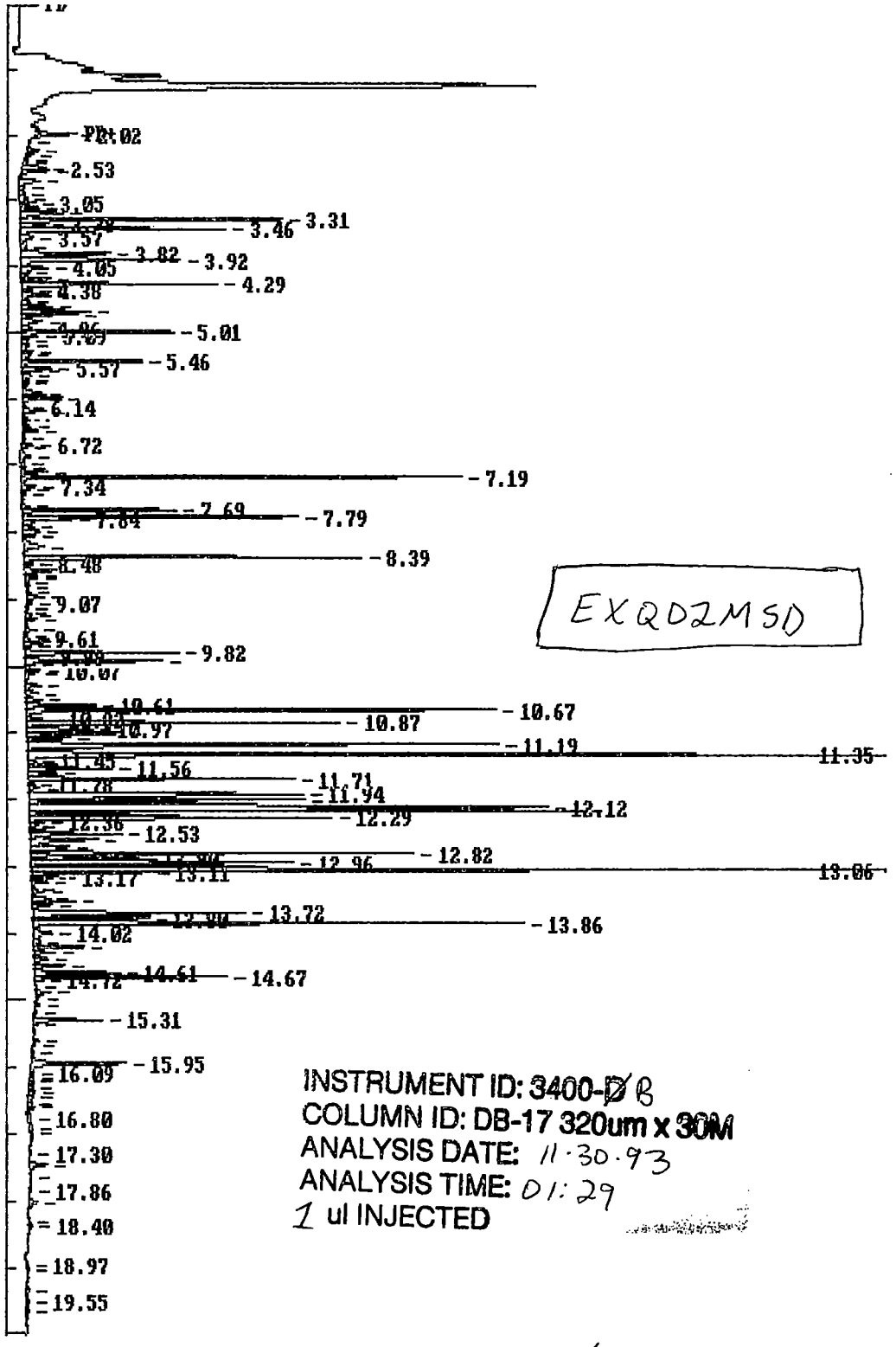
Data File = D:076B88.PTS Printed on 11-30-1993 at 13:17:56
Start time: 0.00 min. Stop time: 20.02 min. Offset: 0 mv.
Full Range: 500 millivolts



EXQD2MSD

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11·30·93
ANALYSIS TIME: 01:29
1 ul INJECTED

11-30-93
BMG

EXTERNAL STANDARD TABLE

```
******************** 11-30-1993 11:08:26 Version 5.1 ********************
* Sample Name: EX002MSD/23944MSD,,;                Data File: 0:076A88      *
* Date: 11-30-1993 01:29:27 Method: 0:076AB  11-30-1993 10:37:36  #  862   *
* Interface: 1   Cycle#:  88   Operator DB  Channel#: 0    Vial#: N.A.      *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250               *
*****************************************************************************
* Instrument Type: 3400-A                  Column Type: DB-1701 .32mm x 30M  *
*              Solvent Description: carrier gas = H2; make-up = N2          *
* Conditions:  110H.5to140@20/minto280@11/minH9 INJ=210 DET=300             *
*              Detector 0: ECD Range1          Detector 1: ECD Range1       *
* Misc. Information: 11/22/93,P,;                                           *
*****************************************************************************
Starting Delay:    0.00                    Ending retention time:    20.00
Area reject:      3500                     One sample per    0.300 sec.
Amount injected:        1.00               Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.300		2.1637	0.3355%	21637	6865	3.2	2			1.0000E-04
2	4.365		0.4118	0.0639%	4118	2286	1.8	2			1.0000E-04
3	4.450	TCX	2.3036	0.3572%	78575	42982	1.8	2	3	0	2.9318E-05
4	4.525		15.4523	2.3958%	154523	90578	1.7	2			1.0000E-04
5	4.710		9.0630	1.4052%	90630	43062	2.1	2			1.0000E-04
6	4.795		0.6622	0.1027%	6622	2515	2.6	2			1.0000E-04
9	5.040		1.5262	0.2366%	15262	5231	2.9	2			1.0000E-04
11	5.190		0.5742	0.0890%	5742	2273	2.5	2			1.0000E-04
12	5.290		1.9402	0.3008%	19402	9887	2.0	2			1.0000E-04
13	5.350		0.4436	0.0688%	4436	2823	1.6	2			1.0000E-04
15	5.565		1.3788	0.2138%	13788	6823	2.0	2			1.0000E-04
16	5.640		0.3837	0.0595%	3837	1847	2.1	2			1.0000E-04
17	5.675		0.4418	0.0685%	4418	2385	1.9	2			1.0000E-04
18	5.730		8.9583	1.3889%	89583	51089	1.8	2			1.0000E-04
21	5.985	alpha-BHC < CRQL	1.7053	0.2644%	16241	7561	2.1	2	3	-.5232	1.0500E-04
22	6.065		0.4517	0.0700%	4517	2023	2.2	2			1.0000E-04
24	6.190		0.5336	0.0827%	5336	2762	1.9	2			1.0000E-04
25	6.295		0.3954	0.0613%	3954	2037	1.9	2			1.0000E-04
26	6.340		4.7257	0.7327%	47257	25738	1.8	3			1.0000E-04
29	6.630		0.4014	0.0622%	4014	1259	3.2	2			1.0000E-04
30	6.725	gamma-BHC Spk Cmpd	14.6575	2.2725%	189731	118435	1.6	2	3	0	7.7254E-05
31	6.815		0.7905	0.1226%	7905	2573	3.1	2			1.0000E-04
32	6.935		0.8628	0.1338%	8628	3378	2.6	2	11.30.93		1.0000E-04
33	6.985		0.5602	0.0869%	5602	3042	1.8	2			1.0000E-04
34	7.060		2.5813	0.4002%	25813	14854	1.7	2	BMG		1.0000E-04
35	7.120	Heptachlor Spk Cmpd	13.1900	2.0450%	159913	90027	1.8	2	3	0	8.2482E-05
36	7.190		1.6163	0.2506%	16163	6633	2.4	2			1.0000E-04
37	7.265		1.3641	0.2115%	13641	3705	3.7	2			1.0000E-04
38	7.335		0.4556	0.0706%	4556	1800	2.5	2			1.0000E-04
39	7.410		1.1579	0.1795%	11579	5288	2.2	2			1.0000E-04
40	7.455		1.0161	0.1575%	10161	5351	1.9	2			1.0000E-04
41	7.500		0.6976	0.1082%	6976	2994	2.3	2			1.0000E-04
42	7.575	Aldrin Spk Cmpd	14.7366	2.2848%	202087	115107	1.8	3	3	.1586	7.2922E-05
43	7.675		0.3518	0.0546%	3518	1849	1.9	4			1.0000E-04
45	7.865		1.1849	0.1837%	11849	3668	3.2	2			1.0000E-04
46	8.020	beta-BHC < CRQL	4.1077	0.6369%	68218	27433	2.5	2	3	-.3962	6.0215E-05
47	8.125		1.9785	0.3068%	19785	7496	2.6	2			1.0000E-04
48	8.185		0.7280	0.1129%	7280	2870	2.5	2			1.0000E-04
49	8.245		0.7578	0.1175%	7578	2478	3.1	2			1.0000E-04
50	8.295		0.4441	0.0689%	4441	1954	2.3	2			1.0000E-04
52	8.400	delta-BHC < CRQL	3.4478	0.5346%	39046	15488	2.5	2	3	-.2502	8.8302E-05

1812

54	8.605		0.6524	0.1011%	6524	3470	1.9	2			1.0000E-04
55	8.675		0.8017	0.1243%	8017	4454	1.8	2			1.0000E-04
56	8.715		9.1557	1.4195%	91557	44615	2.1	2			1.0000E-04
57	8.840		1.2325	0.1911%	12325	4615	2.7	2			1.0000E-04
59	8.950		1.1010	0.1707%	11010	6695	1.6	2			1.0000E-04
60	9.040		7.4858	1.1606%	74858	41509	1.8	2			1.0000E-04
61	9.100		1.7686	0.2742%	17686	6368	2.8	2			1.0000E-04
62	9.150		1.0524	0.1632%	10524	5038	2.1	2			1.0000E-04
63	9.235	Endosulfan I <CRQL	0.4347	0.0674%	5922	2556	2.3	2	3	.1704	7.3413E-05
66	9.390		0.6476	0.1004%	6476	4267	1.5	2			1.0000E-04
67	9.435		0.9449	0.1465%	9449	5203	1.8	2			1.0000E-04
68	9.480	a. Chlordane <CRQL	0.8202	0.1272%	10358	5112	2.0	2	3	.2247	7.9185E-05
69	9.600		3.3608	0.5211%	33608	11810	2.8	2			1.0000E-04
70	9.670	4,4'-DDE	9.2347	1.4318%	83648	29412	2.8	2	3	.3284	1.1040E-04
71	9.800		5.9239	0.9185%	59239	34441	1.7	2			1.0000E-04
72	9.850	Dieldrin SpK Cmpd	47.4229	7.3526%	366959	195685	1.9	2	3	.1230	1.2923E-04
73	9.920		3.0543	0.4735%	30543	17841	1.7	2			1.0000E-04
74	9.965		4.7985	0.7440%	47985	25278	1.9	2			1.0000E-04
76	10.095	AR 1260-1	23.1105	3.5831%	231105	134749	1.7	2			1.0000E-04
77	10.190	Endrin SpK Cmpd	25.1490	3.8992%	248773	135080	1.8	2	3	.1264	1.0109E-04
78	10.255		0.6942	0.1076%	6942	3337	2.1	2			1.0000E-04
79	10.305		1.8889	0.2929%	18889	9265	2.0	2			1.0000E-04
80	10.380		4.9718	0.7708%	49718	23950	2.1	2			1.0000E-04
81	10.475		24.3209	3.7708%	243209	145687	1.7	2			1.0000E-04
82	10.610		0.3641	0.0565%	3641	2298	1.6	2			1.0000E-04
83	10.655		18.2899	2.8357%	182899	90560	2.0	2			1.0000E-04
84	10.760		13.9795	2.1674%	139795	75018	1.9	2			1.0000E-04
85	10.830		0.4590	0.0712%	4590	2047	2.2	2			1.0000E-04
86	10.890		0.5185	0.0804%	5185	2743	1.9	2			1.0000E-04
87	10.945	4,4'-DDD Breakdown	1.8263	0.2832%	18873	10255	1.8	2	3	0	9.6772E-05
88	11.035	AR 1260-2	38.7993	6.0155%	387993	181866	2.1	2			1.0000E-04
89	11.110		1.3267	0.2057%	13267	6607	2.0	2			1.0000E-04
90	11.180		18.5538	2.8766%	185538	101116	1.8	2			1.0000E-04
91	11.240	4,4'-DDT SpK Cmpd	29.7025	4.6051%	345509	160155	2.2	2	3	.1356	8.5967E-05
92	11.330		5.1083	0.7920%	51083	27939	1.8	3			1.0000E-04
94	11.485		4.5557	0.7063%	45557	23172	2.0	2			1.0000E-04
95	11.530		1.0424	0.1616%	10424	5293	2.0	2			1.0000E-04
96	11.595	Endrin Aldehyde AR1260	5.6057	0.8691%	60449	20689	2.9	2	3	-.2484	9.2734E-05
97	11.665		19.0168	2.9484%	190168	98359	1.9	2			1.0000E-04
98	11.750		12.4586	1.9316%	124586	65355	1.9	2			1.0000E-04
99	11.815		6.1993	0.9612%	61993	30767	2.0	2			1.0000E-04
100	11.965		3.2916	0.5103%	32916	12407	2.7	2			1.0000E-04
101	12.025		5.6360	0.8738%	56360	28765	2.0	2			1.0000E-04
102	12.135	Endo. sulfate AR1260-3	44.1389	6.8434%	395494	232498	1.7	2	3	-.1455	1.1160E-04
103	12.205		4.1514	0.6436%	41514	19375	2.1	2			1.0000E-04
104	12.240	Methoxychlor AR1260	22.9313	3.5553%	84865	37730	2.2	2	3	-.4260	2.7021E-04
105	12.365		1.0103	0.1566%	10103	5100	2.0	2			1.0000E-04
106	12.425		2.0367	0.3158%	20367	7908	2.6	2			1.0000E-04
108	12.600		0.7205	0.1117%	7205	3715	1.9	2			1.0000E-04
109	12.695	AR1260-4	29.2781	4.5393%	292781	133254	2.2	2			1.0000E-04
110	12.755	Endrin Ketone AR1260	5.5807	0.8652%	124701	57038	2.2	2	3	-.1276	4.4753E-05
111	12.885		1.6199	0.2511%	16199	6092	2.7	2			1.0000E-04
113	13.040		1.2774	0.1980%	12774	6798	1.9	2			1.0000E-04
115	13.170		3.4118	0.5290%	34118	16540	2.1	2			1.0000E-04
116	13.215		0.9192	0.1425%	9192	5760	1.6	2			1.0000E-04
117	13.245		1.6971	0.2631%	16971	8654	2.0	2			1.0000E-04
118	13.320		4.6713	0.7243%	46713	25240	1.9	2			1.0000E-04
119	13.385		1.5633	0.2424%	15633	5873	2.7	2			1.0000E-04
120	13.485		0.9208	0.1428%	9208	4089	2.3	2			1.0000E-04
121	13.580		1.3407	0.2079%	13407	5123	2.6	2			1.0000E-04
122	13.635		0.9039	0.1401%	9039	4033	2.2	2			1.0000E-04
123	13.715	AR 1260-5	9.9802	1.5474%	99802	53713	1.9	2			1.0000E-04
124	13.805		1.2777	0.1981%	12777	5675	2.3	2			1.0000E-04
126	13.970		0.6721	0.1042%	6721	2623	2.6	2			1.0000E-04
129	14.185		4.6203	0.7163%	46203	25909	1.8	2			1.0000E-04

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132	14.440 DCB	7.0527	1.0935%	71437	38526	1.9	2	3	0	9.8726E-05
133	14.515	0.6607	0.1024%	6607	1882	3.5	2			1.0000E-04
134	14.595	0.8794	0.1363%	8794	2262	3.9	2			1.0000E-04
138	15.045	2.2981	0.3563%	22981	9975	2.3	2			1.0000E-04
139	15.140	0.4164	0.0646%	4164	1813	2.3	2			1.0000E-04

TOTAL AMOUNT = 644.9849

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EXTERNAL STANDARD TABLE

********** 11-30-1993 12:34:15 Version 5.1 **********

* Sample Name: EX002MSD/23944MSD,,; Data File: 0:076B88 *
* Date: 11-30-1993 01:29:33 Method: 0:076BB 11-30-1993 11:14:42 # 886 *
* Interface: 2 Cycle#: 88 Operator BG Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	4.565		0.7526	0.0839%	7526	2803	2.7	2			1.0000E-04
2	4.635		3.0486	0.3399%	30486	15385	2.0	2			1.0000E-04
3	4.710		6.6549	0.7419%	66549	37146	1.8	2			1.0000E-04
4	4.755		5.8404	0.6511%	58404	30143	1.9	2			1.0000E-04
5	4.855		3.4219	0.3815%	34219	9916	3.5	2			1.0000E-04
6	4.960		1.1550	0.1288%	11550	4438	2.6	2			1.0000E-04
7	5.010	TCX	0.0219	0.0024%	161492	85047	1.9	2	7	0	1.3549E-07
8	5.085		1.6227	0.1809%	16227	7567	2.1	2			1.0000E-04
9	5.145		0.6871	0.0766%	6871	2283	3.0	2			1.0000E-04
10	5.220		1.3472	0.1502%	13472	3040	4.4	2			1.0000E-04
11	5.320		1.0203	0.1137%	10203	5000	2.0	2			1.0000E-04
12	5.365		1.4245	0.1588%	14245	3419	4.2	2			1.0000E-04
13	5.460		11.8659	1.3228%	118659	67403	1.8	2			1.0000E-04
14	5.565		3.6986	0.4123%	36986	15309	2.4	2			1.0000E-04
15	5.610		2.0684	0.2306%	20684	9852	2.1	2			1.0000E-04
16	5.685		1.6618	0.1853%	16618	4269	3.9	2			1.0000E-04
17	5.750		0.6443	0.0718%	6443	3027	2.1	2			1.0000E-04
18	5.785		0.9226	0.1029%	9226	2635	3.5	2			1.0000E-04
19	5.935		2.7990	0.3120%	27990	10504	2.7	2			1.0000E-04
20	5.980		2.3687	0.2641%	23687	12300	1.9	2			1.0000E-04
21	6.020		4.5321	0.5052%	45321	21128	2.1	3			1.0000E-04
23	6.210		2.5771	0.2873%	25771	12776	2.0	2			1.0000E-04
24	6.315		0.3633	0.0405%	3633	2410	1.5	2			1.0000E-04
25	6.345		0.9461	0.1055%	9461	4166	2.3	2			1.0000E-04
26	6.440	alpha-BHC	0.0005	0.0001%	7015	4192	1.7	2	7	.1996	7.3132E-08
27	6.505		1.3163	0.1467%	13163	8110	1.6	1			1.0000E-04
28	6.625		0.4086	0.0455%	4086	1482	2.8	2			1.0000E-04
29	6.715		1.3476	0.1502%	13476	6186	2.2	2			1.0000E-04
30	6.755		0.7413	0.0826%	7413	3380	2.2	2			1.0000E-04
31	6.880		2.3298	0.2597%	23298	5632	4.1	2			1.0000E-04
32	6.990		0.7276	0.0811%	7276	2118	3.4	2			1.0000E-04
33	7.045		0.7528	0.0839%	7528	2852	2.6	2			1.0000E-04
34	7.115		2.9568	0.3296%	29568	15041	2.0	2			1.0000E-04
35	7.190	gamma-BHC	0.0394	0.0044%	428759	251575	1.7	2	7	0	9.1880E-08
36	7.335		2.0327	0.2266%	20327	7911	2.6	2			1.0000E-04
37	7.380	beta-BHC	0.0032	0.0004%	11535	4945	2.3	2	7	.1996	2.7691E-07
38	7.440		0.5438	0.0606%	5438	2018	2.7	2			1.0000E-04
40	7.630		1.1173	0.1246%	11173	4402	2.5	2			1.0000E-04
41	7.685		16.5472	1.8447%	165472	87929	1.9	2			1.0000E-04
42	7.785	Heptachlor	0.0334	0.0037%	299483	158061	1.9	2	7	0	1.1145E-07
43	7.835		6.6183	0.7378%	66183	27681	2.4	2			1.0000E-04

1815

45	8.000		3.8418	0.4080%	38418	9483	3.8	2			1.0000E-04
46	8.065	delta-BHC	0.0014	0.0002%	13688	6766	2.0	2	7	.2617	1.0128E-07
47	8.230		4.8958	0.5458%	48958	11745	4.2	2			1.0000E-04
48	8.390	Aldrin	0.0312	0.0035%	381080	193356	2.0	2	7	.1996	8.1798E-08
49	8.480		1.3434	0.1498%	13434	5209	2.6	2			1.0000E-04
50	8.575		5.3121	0.5922%	53121	18178	2.9	2			1.0000E-04
51	8.650		1.3741	0.1532%	13741	7002	2.0	2			1.0000E-04
52	8.695		1.6445	0.1833%	16445	6736	2.4	2			1.0000E-04
55	8.920		0.5119	0.0571%	5119	2304	2.2	2			1.0000E-04
56	8.980		2.3015	0.2566%	23015	9913	2.3	2			1.0000E-04
57	9.070		0.6419	0.0716%	6419	3206	2.0	2			1.0000E-04
58	9.135		0.4376	0.0488%	4376	1392	3.1	2			1.0000E-04
60	9.250		0.9386	0.1046%	9386	3486	2.7	2			1.0000E-04
61	9.310		1.6442	0.1833%	16442	6688	2.5	2			1.0000E-04
63	9.475	Hept. epoxide	0.0015	0.0002%	14278	6558	2.2	2	7	.1467	1.0548E-07
65	9.610		0.5575	0.0622%	5575	3201	1.7	2			1.0000E-04
66	9.650		3.9642	0.4419%	39642	14070	2.8	2			1.0000E-04
67	9.715	g. Chlordane	0.0008	0.0001%	8269	3888	2.1	2	7	-.4663	9.2400E-08
68	9.815		16.6147	1.8522%	166147	87650	1.9	2			1.0000E-04
69	9.935		15.9463	1.7777%	159464	78630	2.0	2			1.0000E-04
70	9.990		1.4703	0.1639%	14703	5720	2.6	2			1.0000E-04
71	10.070	a. Chlordane	0.0019	0.0002%	20612	8581	2.4	2	7	0	9.1302E-08
72	10.110	Endosulfan I	0.0026	0.0003%	23331	7541	3.1	2	7	.1005	1.1134E-07
74	10.300		2.0092	0.2240%	20092	8521	2.4	2			1.0000E-04
75	10.415		2.0942	0.2335%	20942	6909	3.0	2			1.0000E-04
76	10.515		2.0781	0.2317%	20781	8945	2.3	2			1.0000E-04
77	10.605	4,4'-DDE	0.0097	0.0011%	87404	39329	2.2	2	7	.0580	1.1134E-07
78	10.670	Dieldrin	0.0495	0.0055%	496294	269327	1.8	2	7	.1057	9.9731E-08
79	10.815		2.2423	0.2500%	22423	9928	2.3	2			1.0000E-04
80	10.865	AR1260-1	36.8397	4.1069%	368397	179125	2.1	2			1.0000E-04
81	10.965		6.6161	0.7376%	66161	37192	1.8	2			1.0000E-04
82	11.010		17.4092	1.9408%	174092	54744	3.2	2			1.0000E-04
83	11.085		5.8949	0.6572%	58949	24648	2.4	2			1.0000E-04
84	11.190	AR1260-2	58.4975	6.5213%	584975	270494	2.2	2			1.0000E-04
85	11.350	Endrin	0.1430	0.0159%	1178495	496488	2.4	2	7	.2879	1.2132E-07
86	11.445		1.0538	0.1175%	10538	4247	2.5	2			1.0000E-04
87	11.495		3.4986	0.3900%	34986	16140	2.2	2			1.0000E-04
88	11.555		8.9983	1.0031%	89983	47926	1.9	2			1.0000E-04
89	11.615	4,4'-DDD	0.0064	0.0007%	47256	16221	2.9	2	7	0	1.3477E-07
90	11.705		27.3128	3.0448%	273128	152422	1.8	2			1.0000E-04
91	11.780		0.5674	0.0633%	5674	2662	2.1	2			1.0000E-04
92	11.840		1.8311	0.2041%	18311	6515	2.8	2			1.0000E-04
93	11.935		46.9703	5.2363%	469703	157448	3.0	2			1.0000E-04
94	12.020		30.5825	3.4093%	305825	157756	1.9	2			1.0000E-04
95	12.120	4,4'-DDT	0.1711	0.0191%	1051019	297695	3.5	2	7	-.1299	1.6277E-07
96	12.180		60.1496	6.7055%	601496	318240	1.9	2			1.0000E-04
97	12.290	Endrin Aldehyde	0.0691	0.0077%	396421	173048	2.3	2	7	.2812	1.7436E-07
98	12.360		2.3956	0.2671%	23956	8003	3.0	2			1.0000E-04
99	12.430		0.5979	0.0666%	5979	3138	1.9	2			1.0000E-04
100	12.480	Endo. sulfate	0.0031	0.0003%	19482	8408	2.3	2	7	0	1.5764E-07
101	12.530		10.4559	1.1656%	104559	51953	2.0	2			1.0000E-04
102	12.615		11.9360	1.3306%	119360	38292	3.1	2			1.0000E-04
103	12.725		5.7541	0.6415%	57541	22068	2.6	2			1.0000E-04
104	12.760		4.0496	0.4515%	40496	21808	1.9	2			1.0000E-04
105	12.815	AR1260-3	40.4337	4.5076%	404337	218905	1.8	2			1.0000E-04
106	12.895		15.3824	1.7148%	153824	61670	2.5	2			1.0000E-04
107	12.960		40.2916	4.4917%	402916	150417	2.7	2			1.0000E-04
108	13.060	AR1260-4	131.3498	14.6429%	1313498	731777	1.8	2			1.0000E-04
109	13.105		13.2086	1.4725%	132086	68344	1.9	2			1.0000E-04
110	13.165		3.3217	0.3703%	33217	14761	2.3	2			1.0000E-04
111	13.195		2.2426	0.2500%	22426	11332	2.0	2			1.0000E-04
112	13.250		2.3301	0.2598%	23301	8932	2.6	2			1.0000E-04
113	13.340		0.6512	0.0726%	6512	1990	3.3	2			1.0000E-04
114	13.400		1.5639	0.1743%	15639	6874	2.3	2			1.0000E-04
115	13.495		2.0286	0.2261%	20286	9702	2.1	2			1.0000E-04
116	13.540		5.2651	0.5870%	52651	21651	2.4	2			1.0000E-04

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1316

117	13.380		3.2813	0.3658%	32813	11334	2.8	2			1.0000E-04
118	13.715	Methoxychlor	0.0388	0.0043%	310954	121453	2.6	2	7	0	1.2466E-07
119	13.795	Endrin Ketone	0.0562	0.0063%	129233	66287	1.9	2	7	-.1261	4.3502E-07
120	13.860	AR1260-5	54.2335	6.0460%	542335	282043	1.9	2			1.0000E-04
121	14.015		4.2777	0.4769%	42777	10775	4.0	2			1.0000E-04
122	14.140		1.9556	0.2180%	19556	3978	4.9	2			1.0000E-04
123	14.215		5.5665	0.6206%	55665	28632	1.9	2			1.0000E-04
124	14.305		2.7899	0.3110%	27899	12113	2.3	2			1.0000E-04
125	14.400		2.3405	0.2609%	23405	8131	2.9	2			1.0000E-04
126	14.490		4.5867	0.5113%	45867	17270	2.7	2			1.0000E-04
127	14.610		9.6035	1.0706%	96035	48545	2.0	2			1.0000E-04
128	14.665		20.1051	2.2413%	201051	110172	1.8	2			1.0000E-04
129	14.720		0.8659	0.0965%	8659	4636	1.9	2			1.0000E-04
130	14.815		0.3788	0.0422%	3788	944	4.0	2			1.0000E-04
131	14.895		1.9086	0.2128%	19086	8313	2.3	2			1.0000E-04
132	14.970		0.4585	0.0511%	4585	1899	2.4	2			1.0000E-04
133	15.085		0.6671	0.0744%	6671	2816	2.4	2			1.0000E-04
134	15.200		0.5901	0.0658%	5901	1703	3.5	2			1.0000E-04
135	15.310		8.2237	0.9168%	82237	39191	2.1	2			1.0000E-04
136	15.375		0.4958	0.0553%	4958	2172	2.3	2			1.0000E-04
138	15.615		0.7051	0.0786%	7051	3058	2.3	2			1.0000E-04
141	15.950	DCB	0.0154	0.0017%	147459	53551	2.8	2	7	0	1.0420E-07
143	16.155		0.5051	0.0563%	5051	1358	3.7	2			1.0000E-04
146	16.365		0.8192	0.0913%	8192	2341	3.5	2			1.0000E-04
147	16.445		0.4328	0.0482%	4328	1492	2.9	2			1.0000E-04

TOTAL AMOUNT = 897.0179

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1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ12MS

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: 23955MS

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

% Moisture: decanted: (Y/N) Date Received: 11/04/93

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/05/93

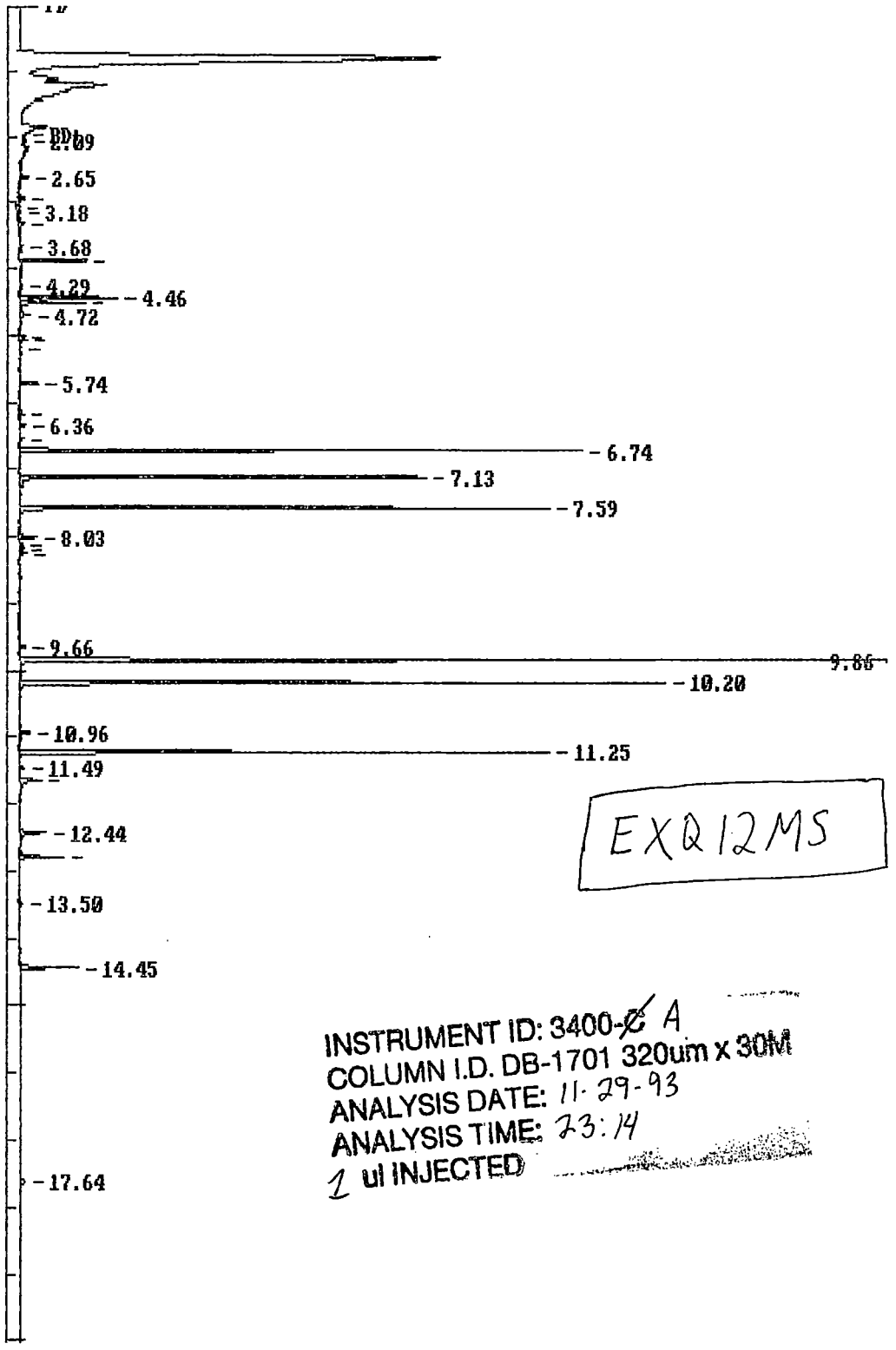
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/29/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

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)	0.53	
76-44-8	Heptachlor	0.52	
309-00-2	Aldrin	0.57	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	1.2	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	1.1	
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	1.1	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Data File = 0:076A83.PTS Printed on 11-30-1993 at 11:21:31
Start time: 0.00 min. Stop time: 20.02 min. Offset: 0 mv.
Full Range: 280 millivolts



EXQ12MS

INSTRUMENT ID: 3400-~~C~~ A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-29-93
ANALYSIS TIME: 23:14
1 ul INJECTED

11-30-93
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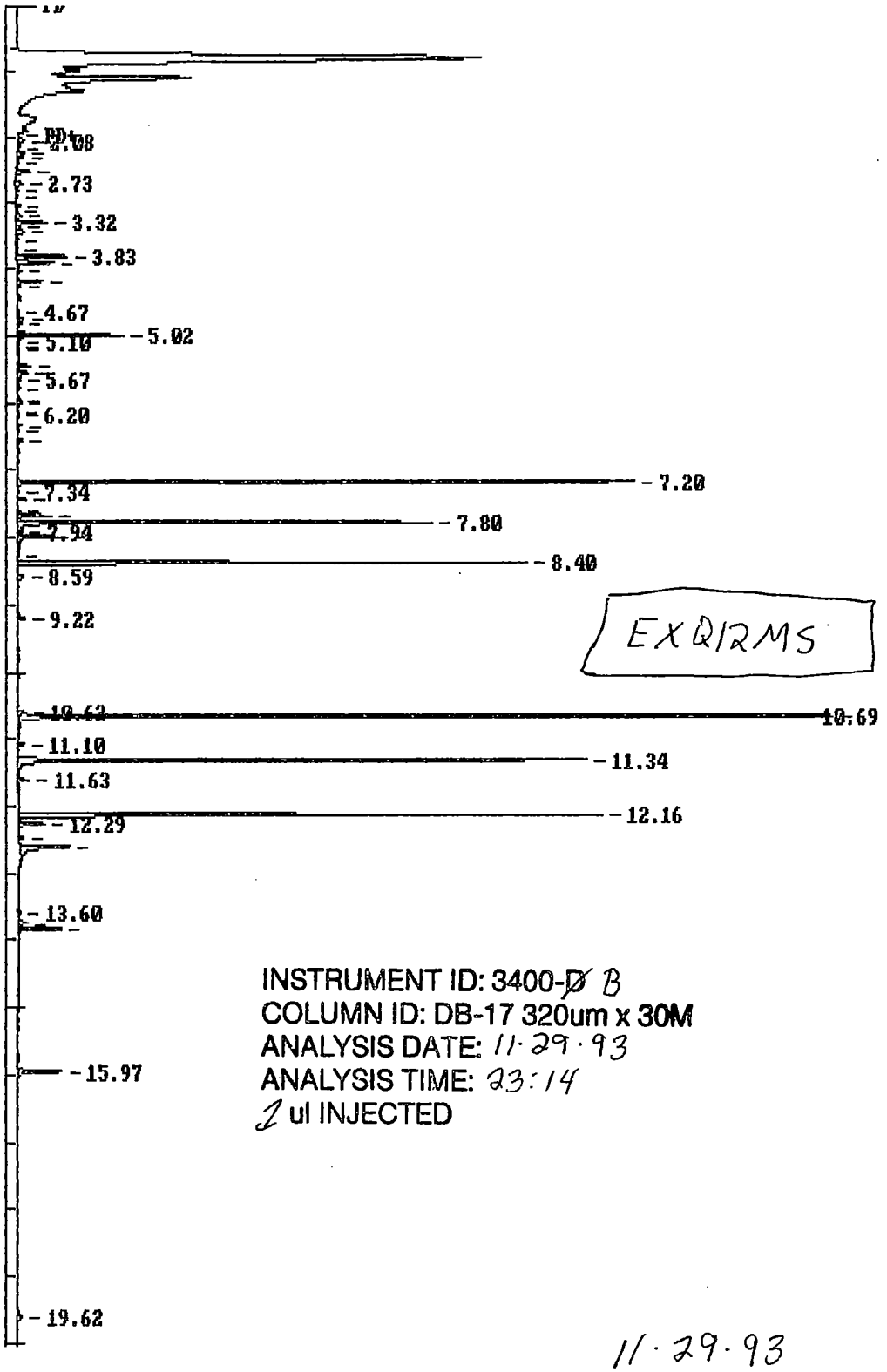
Data File = 0:076B83.PTS Printed on 11-30-1993 at 13:13:12
Start time: 0.00 min. Stop time: 20.03 min. Offset: 0 mv.
Full Range: 500 millivolts



EXQ12MS

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11·29·93
ANALYSIS TIME: 23:14
1 ul INJECTED

11·29·93
BMG

++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-30-1993 10:57:20 Version 5.1 **********

* Sample Name: EXQ12MS/23955MS,,; Data File: D:076A83 *

* Date: 11-29-1993 23:14:10 Method: D:076AB 11-30-1993 10:37:36 # 862 *

* Interface: 1 Cycle#: 83 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	4.460	TCX	1.6573	0.8228%	56529	31414	1.8	2	3	0	2.9318E-05
4	4.535		3.3603	1.6683%	33603	20754	1.6	2			1.0000E-04
5	4.715		0.7041	0.3495%	7041	3326	2.1	1			1.0000E-04
8	5.090		0.4818	0.2392%	4818	2363	2.0	2			1.0000E-04
14	5.740		0.9464	0.4699%	9464	5996	1.6	1			1.0000E-04
20	6.355		0.4328	0.2149%	4328	1976	2.2	1			1.0000E-04
23	6.735	gamma-BHC Spk Cmpd	21.3144	10.5822%	275901	180196	1.5	2	3	0	7.7254E-05
24	7.130	Heptachlor Spk Cmpd	18.5219	9.1957%	224555	130224	1.7	3	3	0	8.2483E-05
28	7.585	Aldrin Spk Cmpd	20.2959	10.0765%	278323	169831	1.6	2	3	0	7.2922E-05
29	8.025		1.1159	0.5540%	11159	5762	1.9	2			1.0000E-04
32	8.260		0.3911	0.1942%	3911	2430	1.6	2			1.0000E-04
44	9.860	Dieldrin Spk Cmpd	62.7148	31.1366%	485289	288281	1.7	1	3	0	1.2923E-04
46	10.200	Endrin Spk Cmpd	35.7617	17.7549%	353754	206582	1.7	1	3	0	1.0109E-04
49	10.955	4,4'-DDD Breakdown	0.5790	0.2875%	5983	3220	1.9	2	3	-.0456	9.6772E-05
51	11.245	4,4'-DDT Spk Cmpd	24.7711	12.2983%	288146	169915	1.7	1	3	0	8.5967E-05
53	11.660	Endrin Aldehyde Breakdown	1.7005	0.8442%	18337	6876	2.7	1	3	0	9.2734E-05
56	12.435		2.3072	1.1455%	23072	8544	2.7	1			1.0000E-04
58	12.805	Endrin Ketone Breakdown	1.0878	0.5401%	24308	14260	1.7	2	3	0	4.4753E-05
63	14.450	DCB	3.2746	1.6258%	33169	18712	1.8	1	3	0	9.8726E-05

TOTAL AMOUNT = 201.4185

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++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-30-1993 12:15:07 Version 5.1 **********

* Sample Name: EXQ12MS/23955MS,,; Data File: O:076BB3 *

* Date: 11-29-1993 23:14:16 Method: O:076BB 11-30-1993 11:14:42 # 886 *

* Interface: 2 Cycle#: 83 Operator BG Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00

Area reject: 3500 One sample per 0.300 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	4.765		0.7179	2.3662%	7179	3620	2.0	2			1.0000E-04
4	4.835		0.7811	2.5746%	7811	2132	3.7	2			1.0000E-04
5	4.975		0.7416	2.4443%	7416	4176	1.8	2			1.0000E-04
6	5.015	TCX	0.0151	0.0497%	111303	59829	1.9	3	6	0	1.3549E-07
11	5.470		1.1854	3.9071%	11854	7199	1.6	2			1.0000E-04
13	5.575		1.4310	4.7168%	14310	5146	2.8	2			1.0000E-04
14	5.670		0.4695	1.5476%	4695	1454	3.2	2			1.0000E-04
18	6.025		0.5389	1.7762%	5389	2162	2.5	2			1.0000E-04
21	6.355		0.5528	1.8220%	5528	2798	2.0	2			1.0000E-04
24	6.575		0.5726	1.8872%	5726	2591	2.2	2			1.0000E-04
30	7.200	gamma-BHC	0.0509	0.1676%	553571	351203	1.6	2	6	0	9.1880E-08
32	7.450		0.7863	2.5919%	7863	4837	1.6	1			1.0000E-04
35	7.695		3.4769	11.4602%	34769	19158	1.8	2			1.0000E-04
36	7.795	Heptachlor	0.0484	0.1596%	434482	235451	1.8	3	6	0	1.1145E-07
37	7.935		0.5551	1.8298%	5551	2042	2.7	4			1.0000E-04
38	8.010		5.4825	18.0711%	54825	27758	2.0	2			1.0000E-04
41	8.400	Aldrin	0.0423	0.1396%	517664	289705	1.8	2	6	.2190	8.1798E-08
42	8.585		1.3114	4.3226%	13114	3578	3.7	3			1.0000E-04
46	9.220		0.7452	2.4564%	7452	3997	1.9	2			1.0000E-04
55	10.620	4,4'-DDE	0.0007	0.0025%	6694	4140	1.6	2	6	.0996	1.1134E-07
56	10.685	Dieldrin	0.0841	0.2772%	843360	462949	1.8	3	6	.1465	9.9731E-08
58	11.095		0.6148	2.0263%	6148	3284	1.9	1			1.0000E-04
59	11.340	Endrin	0.0746	0.2459%	614874	323974	1.9	2	6	0	1.2132E-07
60	11.630	4,4'-DDD	0.0015	0.0050%	11305	5953	1.9	2	6	0	1.3477E-07
64	12.155	4,4'-DDT	0.0924	0.3047%	567962	332169	1.7	2	6	0	1.6277E-07
65	12.285	Endrin Aldehyde	0.0052	0.0172%	29953	14299	2.1	2	6	.1404	1.7436E-07
66	12.490	Endo. sulfate	0.0010	0.0032%	6172	2811	2.2	2	6	0	1.5764E-07
67	12.625		9.9322	32.7381%	99322	28306	3.5	1			1.0000E-04
69	13.760	Methoxychlor	0.0012	0.0039%	9382	4672	2.0	2	6	.2454	1.2466E-07
70	13.840	Endrin Ketone	0.0199	0.0656%	45749	23885	1.9	2	6	0	4.3502E-07
75	15.965	DCB	0.0060	0.0199%	58056	24497	2.4	1	6	0	1.0420E-07

TOTAL AMOUNT = 30.3385

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EXQ12MSD

Lab Name: ENCOTEC Contract: 68-D2-0012

Lab Code: ENCOT Case No.: 21170 SAS No.: SDG No.: EXQ02

Matrix: (soil/water) WATER Lab Sample ID: 23955MSD

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

% Moisture: decanted: (Y/N) Date Received: 11/04/93

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/05/93

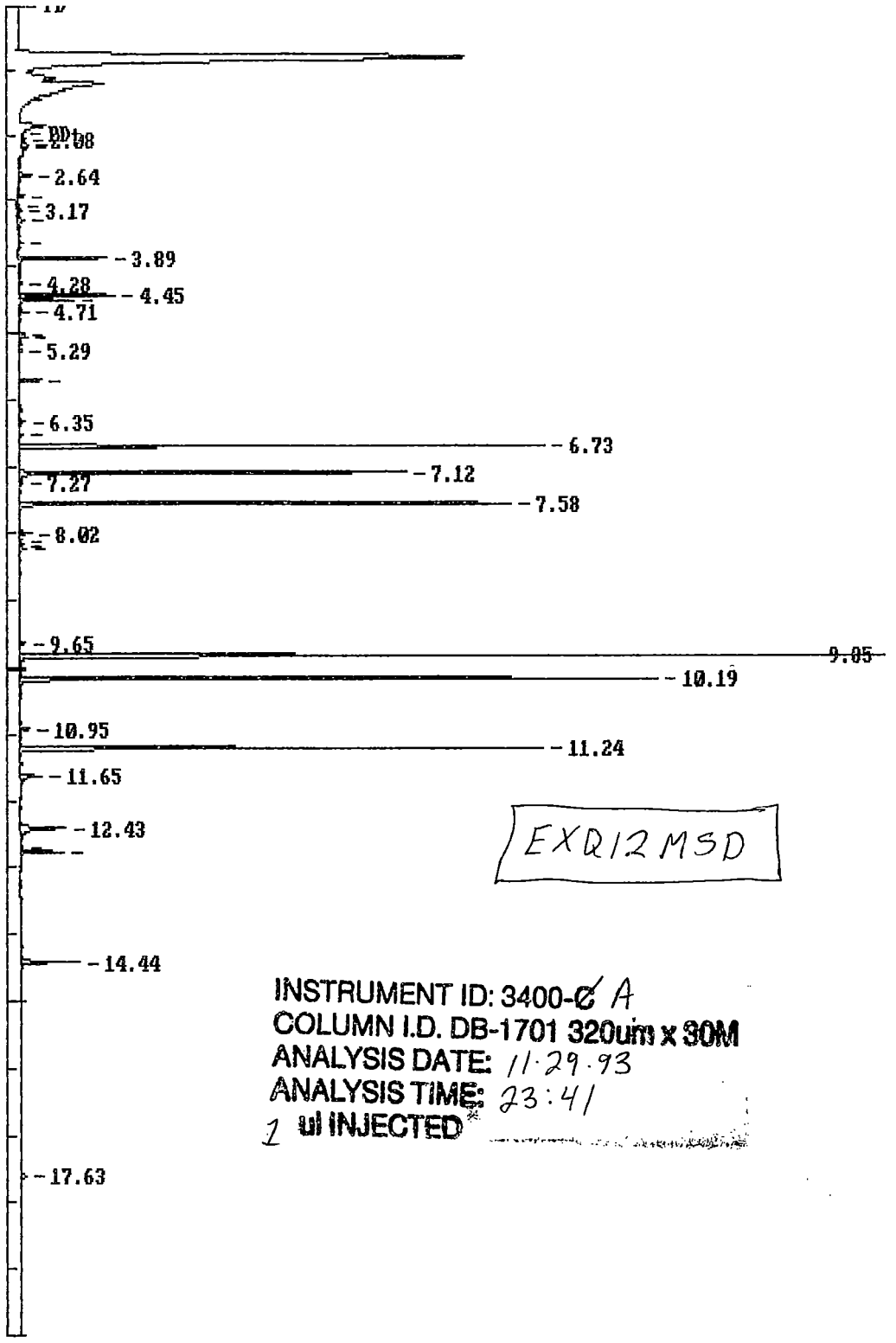
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/29/93

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

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)	0.51	
76-44-8	Heptachlor	0.49	
309-00-2	Aldrin	0.54	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	1.1	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	1.0	
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	1.1	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

Data File = O:076A84.PTS Printed on 11-30-1993 at 11:22:17
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 280 millivolts

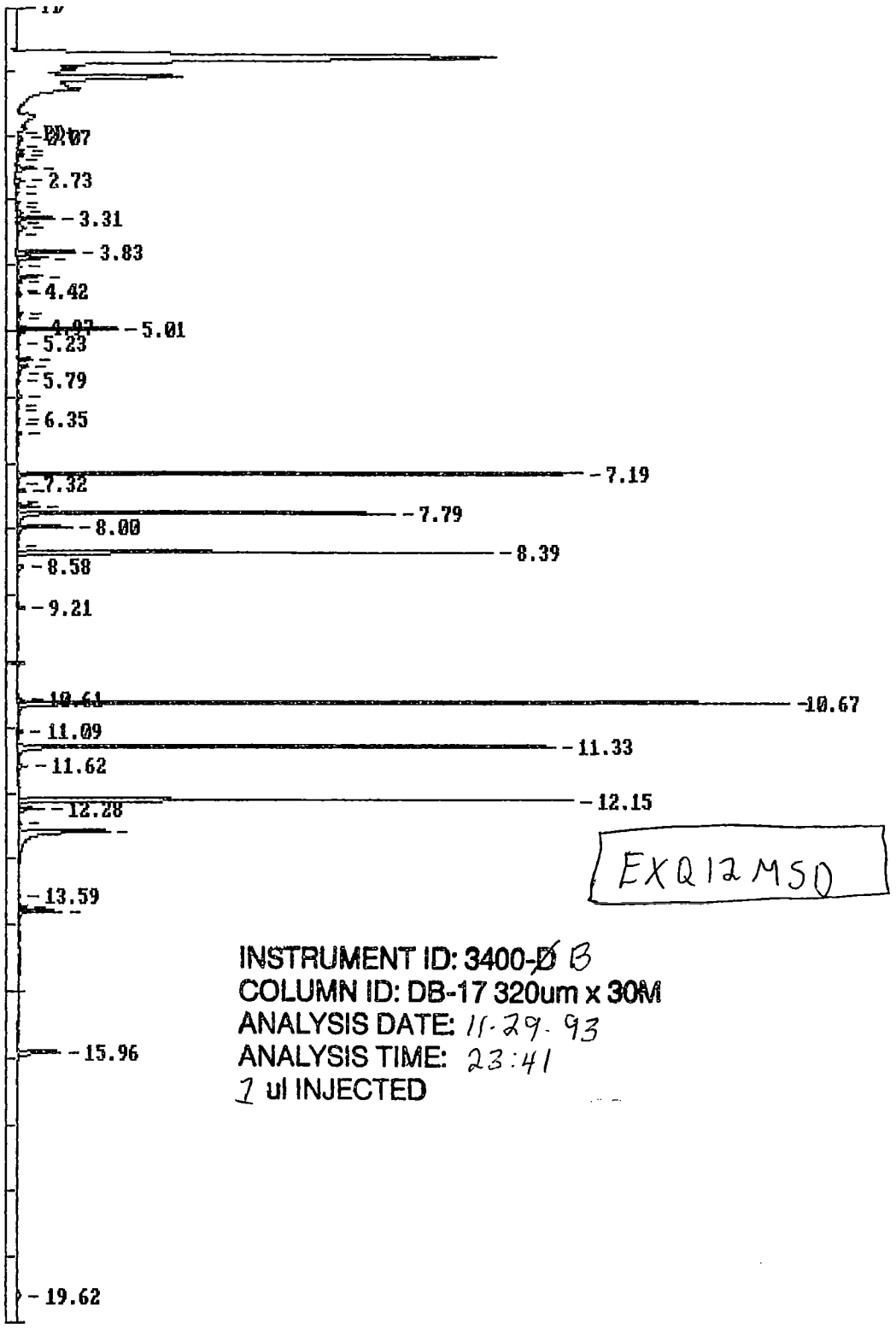


EXQ12MSD

INSTRUMENT ID: 3400-~~C~~ A
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11·29·93
ANALYSIS TIME: 23:41
1 ul INJECTED

11·30·93 BMG

Data File = 0:076B84.PTS Printed on 11-30-1993 at 13:14:03
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 500 millivolts



11-30-93
BMB

EXTERNAL STANDARD TABLE

********** 11-30-1993 10:59:18 Version 5.1 **********

* Sample Name: EXQ12MSD/23955MSD,,; Data File: O:076A84 *
* Date: 11-29-1993 23:41:14 Method: O:076AB 11-30-1993 10:37:36 # 862 *
* Interface: 1 Cycle#: 84 Operator DB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *
* Detector 0: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	4.450	TCX	1.5890	0.8008%	54200	30731	1.8	2	3	0	2.9318E-05
4	4.525		2.8493	1.4359%	28493	17404	1.6	2			1.0000E-04
5	4.710		0.7230	0.3644%	7230	3108	2.3	2			1.0000E-04
8	5.080		0.5226	0.2634%	5226	2724	1.9	2			1.0000E-04
14	5.730		1.1264	0.5676%	11264	7216	1.6	1			1.0000E-04
20	6.345		0.4183	0.2108%	4183	1926	2.2	2			1.0000E-04
24	6.725	gamma-BHC Spk Cmpd	20.4209	10.2912%	264334	168489	1.6	2	3	0	7.7254E-05
26	7.120	Heptachlor Spk Cmpd	17.6474	8.8935%	213953	124099	1.7	2	3	0	8.2482E-05
29	7.575	Aldrin Spk Cmpd	19.4358	9.7948%	266528	157818	1.7	1	3	.1586	7.2922E-05
31	8.015	beta-BHC Conf-	0.4062	0.2047%	6746	3934	1.7	2	3	-.4583	6.0215E-05
34	8.250		0.4385	0.2210%	4385	2442	1.8	2			1.0000E-04
47	9.850	Dieldrin Spk Cmpd	61.5331	31.0100%	476145	277945	1.7	3	3	.1230	1.2923E-04
50	10.190	Endrin Spk Cmpd	35.0923	17.6850%	347132	204523	1.7	2	3	.1264	1.0109E-04
53	10.945	4,4'-DDD Breakdown	0.5327	0.2685%	5505	3071	1.8	2	3	0	9.6772E-05
55	11.235	4,4'-DDT Spk Cmpd	24.6402	12.4176%	286623	168187	1.7	1	3	0	8.5967E-05
57	11.645	Endrin Aldehyde Breakdown	1.7102	0.8618%	18442	7004	2.6	1	3	.1817	9.2734E-05
61	12.425		4.8603	2.4494%	48603	14746	3.3	3			1.0000E-04
63	12.795	Endrin Ketone Breakdown	1.1114	0.5601%	24834	14063	1.8	2	3	.1855	4.4753E-05
69	14.440	DCB	3.3725	1.6996%	34160	18880	1.8	2	3	0	9.8726E-05

TOTAL AMOUNT = 198.4300

11.30.93
BMG

EXTERNAL STANDARD TABLE

********** 11-30-1993 12:16:40 Version 5.1 **********

* Sample Name: EXQ12MSD/23955MSD,,; Data File: O:076B84 *
* Date: 11-29-1993 23:41:20 Method: O:076BB 11-30-1993 11:14:42 # 886 *
* Interface: 2 Cycle#: 84 Operator BG Channel#: O Vial#: N.A. *
* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-B Column Type: DB-17 .32mm x 30M *
* Solvent Description: carrier gas = H2; make-up = N2 *
* Conditions: 110H.5to140@20/min to280@11/minH9 INJ=210 DET=300 *
* Detector O: ECD Range1 Detector 1: ECD Range1 *
* Misc. Information: 11/22/93,C,; *

****

Starting Delay: 0.00 Ending retention time: 19.00
Area reject: 3500 One sample per 0.300 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	4.755		0.6111	1.4510%	6111	3116	2.0	2			1.0000E-04
4	4.825		0.6854	1.6273%	6854	1836	3.7	2			1.0000E-04
5	4.965		0.7664	1.8196%	7664	4678	1.6	2			1.0000E-04
6	5.010	TCX	0.0144	0.0343%	106529	57889	1.8	3	6	0	1.3549E-07
10	5.460		1.3732	3.2604%	13732	8300	1.7	1			1.0000E-04
11	5.565		1.5599	3.7036%	15599	5838	2.7	2			1.0000E-04
12	5.660		0.4820	1.1443%	4820	1489	3.2	2			1.0000E-04
15	6.020		0.8319	1.9752%	8319	2326	3.6	2			1.0000E-04
19	6.345		0.3682	0.8742%	3682	2009	1.8	2			1.0000E-04
22	6.565		0.4718	1.1202%	4718	2430	1.9	2			1.0000E-04
27	7.190	gamma-BHC	0.0486	0.1154%	529003	328637	1.6	2	6	0	9.1880E-08
28	7.320		0.3684	0.8748%	3684	970	3.8	2			1.0000E-04
29	7.440		0.8709	2.0677%	8709	4913	1.8	2			1.0000E-04
32	7.685		2.3636	5.6118%	23636	12731	1.9	2			1.0000E-04
33	7.785	Heptachlor	0.0462	0.1097%	414382	219218	1.9	2	6	0	1.1145E-07
34	8.000		6.1652	14.6379%	61652	31466	2.0	2			1.0000E-04
37	8.385	Aldrin	0.0405	0.0961%	494712	276315	1.8	2	6	.1398	8.1798E-08
38	8.575		1.1549	2.7421%	11549	3374	3.4	1			1.0000E-04
44	9.210		0.7249	1.7211%	7249	3924	1.8	2			1.0000E-04
54	10.610	4,4'-DDE	0.0007	0.0017%	6512	3876	1.7	2	6	.1052	1.1134E-07
55	10.670	Dieldrin	0.0821	0.1949%	823029	448119	1.8	2	6	.1057	9.9731E-08
57	11.085		0.5032	1.1948%	5032	2641	1.9	1			1.0000E-04
58	11.330	Endrin	0.0727	0.1725%	598969	312367	1.9	2	6	.1112	1.2132E-07
59	11.620	4,4'-DDD	0.0015	0.0035%	10869	5508	2.0	2	6	.1134	1.3477E-07
63	12.145	4,4'-DDT	0.0916	0.2175%	562907	322731	1.7	2	6	0	1.6277E-07
64	12.275	Endrin Aldehyde	0.0053	0.0126%	30515	14551	2.1	2	6	.1588	1.7436E-07
66	12.615		22.3853	53.1491%	223853	52605	4.3	3			1.0000E-04
69	13.750	Methoxychlor	0.0012	0.0029%	9874	4829	2.0	2	6	.2725	1.2466E-07
70	13.835	Endrin Ketone	0.0208	0.0495%	47881	24842	1.9	3	6	.1634	4.3502E-07
82	15.955	DCB	0.0061	0.0144%	58113	24443	2.4	1	6	.1054	1.0420E-07

TOTAL AMOUNT = 42.1179

VII Miscellaneous Data

CASE # 21170
SDG # EXQ02

GC/MS
CLP ANALYSIS LOG

PAGE #

1829

DETERMINATION: VOA
INSTRUMENT 026 CONDITONS:
Original Run Log, Tune, and Standards
with Case # 21170 , SDG # EXQ02

MSQ FILE(S): 111193.MSQ ~~111193Z1.MSQ~~ D.A.F. 11/11/93

Analyst: D.A.F.
Date: 11/11/93
Case: 21170
Region: V
EMV: 971
Matrix: SOIL

No.	Time	File Name	level	Matrix	Dilution Scheme	Dil. Fact.	Re-runs	VOA No.	pH	Tape No.	Removed Date/Time	Returned Date/Time	Stor. Loc.	Analysis & Code
1	8:43	BFB1111Z	NA	NA	NA	NA		6	NA	ENCOTEC	NA	NA	NA	NA
2	9:11	200VZ1111	↓	↓	↓	↓		7	↓	33-93-Z	↓	↓	↓	↓
3	9:43	100VZ1111	↓	↓	↓	↓		8	↓	↓	↓	↓	↓	↓
4	10:15	50VZ1111	↓	↓	↓	↓		9	↓	↓	↓	↓	↓	↓
5	10:48	20VZ1111	↓	↓	↓	↓		10	↓	↓	↓	↓	↓	↓
6	11:25	10VZ1111	↓	↓	↓	↓		11	↓	↓	↓	↓	↓	↓
7														
8														
9														
10														
11														
12														
13														
14														
15											D.A.F. 11/11	/93		
16														
17														
18														
19														
20														

Standards identification: VOA I.S.: 164 , VOA HSL: 163 , VOA SURR: 165 .

Sample analysis codes: A) Analysis B)re-analysis for EICP criteria C)re-analysis for dilution D)carry-over blank

Balance check:	Weight:	Reading:
	1.00 g	NA
	2.00 g	↓
	5.00 g	↓

ENCOTEC

GC/MS
CLP ANALYSIS LOG

PAGE #

1330

DETERMINATION: VOA
INSTRUMENT 026 CONDITONS:
Original Run Log, Tune, and Standards
with Case # 21170 , SDG # EXQ02

Analyst: D.A.F.
Date: 11/11/93
Case: 21170
Region: V
EMV: 959
Matrix: SOIL

MSQ FILE(S): 111193Z.MSQ

No.	Time	File Name	level	Matrix	Dilution Scheme	Dil. Fact.	Re-runs	VOA No.	pH	Tape No.	Removed Date/Time	Returned Date/Time	Stor. Loc.	Analysis & Code
1	13:27	BFB111Z1	NA	NA	NA	NA		1	NA	ENCOTEC	NA	NA	NA	NA
2	13:33	50VZ1111Z	↓	↓	↓	↓		2	↓	33-93-Z	↓	↓	↓	↓
3	—	VSB 11:11	↓	↓	↓	↓		3	↓	↓	↓	↓	↓	↓
4	14:47	VSB1111Z	↓	↓	↓	↓		4	↓	↓	↓	↓	↓	↓
5	15:20	DFR63VR	N	SOIL	5g → 5mls	1:1		5	↓	↓	11/11/93(14:30)	11/11/93(14:58)	#6	B624
6	15:53	EXQ02V	↓	↓	↓	↓		6	↓	↓	↓	↓	↓	A624
7	16:26	EXQ02VM	↓	↓	↓	↓		7	↓	↓	↓	↓	↓	↓
8	16:59	EXQ02VD	↓	↓	↓	↓		8	↓	↓	↓	↓	↓	↓
9	17:32	EXQ03V	↓	↓	2.5g → 5mls	1:2	1:625	9	↓	↓	↓	↓	↓	↓
10	—	EXQ04V	↓	↓	5g → 5mls	1:1	1:1	10	↓	↓	↓	↓	↓	↓
11	18:39	EXQ05V	↓	↓	↓	↓		11	↓	↓	↓	↓	↓	↓
12	19:11	EXQ06V	↓	↓	↓	↓		12	↓	↓	↓	↓	↓	↓
13	19:45	EXQ07V	↓	↓	↓	↓		13	↓	↓	↓	↓	↓	↓
14	20:18	EXQ08V	↓	↓	↓	↓		14	↓	↓	↓	↓	↓	↓
15	20:51	EXQ09V	↓	↓	↓	↓		15	↓	↓	↓	↓	↓	↓
16	21:25	EXQ10V	↓	↓	↓	↓		16	↓	↓	↓	↓	↓	↓
17	21:58	EXQ11V	↓	↓	↓	↓		1	↓	↓	↓	↓	↓	↓
18	—													
19											D.A.F.	11/11/93		
20	—													

Standards identification: VOA I.S.: 164 , VOA HSL: 163 , VOA SURR: 165 .

Sample analysis codes: A) Analysis B)re-analysis for EICP criteria C)re-analysis for dilution D)carry-over blank

Balance check:	Weight:	Reading:
	1.00g	1.00g
	2.00g	2.01g
	5.00g	5.01g

GC/MS
CLP ANALYSIS LOG

PAGE #

1831

DETERMINATION: VOA
INSTRUMENT 026 CONDITONS:
Original Run Log, Tune, and Standards
with Case # 21177 , SDG # FAR21

Analyst: D.A.F.
Date: 11/12/93
Case: 21177
Region: VI
EMV: 947
Matrix: SOIL

MSQ FILE(S): 111293Z.MSQ

No.	Time	File Name	level	Matrix	Dilution Scheme	Dil. Fact.	Re-runs	VOA No.	pH	Tape No.	Removed Date/Time	Returned Date/Time	Stor. Loc.	Analysis & Code
1	9:04	BFB1112Z	NA	NA	NA	NA		10	NA	ENCOTEC	NA	NA	NA	NA
2	9:17	SOVZ1112						11		33-93-Z				
3	—	VSB1112						12						
4	10:22	VSB1112Z						13						
5	10:54	EXQ04VR	N	SOIL	5g → 5mls	1:1		14			11/12/93 (10:10)	11/12/93 (10:35)	#6	B624
6	11:27	FAR21V						15						A624
7	11:59	FAR21VM						16						
8	12:31	FAR21VD						1						
9	13:04	FAR22V						2						
10	13:36	FAR23V						3						
11	14:09	FAR24V						4						
12	14:41	FAR25V					1:1	5						
13	15:13	FAR26V						6						
14	15:46	FAR27V						7						
15	16:18	FAR28V						8						
16	16:51	FAR29V						9						
17	17:23	FAR30V						10						
18	17:55	FAR31V					1:1	11						
19	18:28	FAR32V					1:1	12						
20	19:00	241 81V						13						

Standards identification: VOA I.S.: 164 , VOA HSL: 163 , VOA SURR: 165 .

Sample analysis codes: A) Analysis B)re-analysis for EICP criteria C)re-analysis for dilution D)carry-over blank

Balance check:	Weight:	Reading:
	1.00g	1.00g
	2.00g	2.02g
	5.00g	5.01g

GC/MS
CLP ANALYSIS LOG

PAGE #

DETERMINATION: VOA
INSTRUMENT 026 CONDITONS:
Original Run Log, Tune, and Standards
with Case # 21177 , SDG # FAR21

Analyst: D.A.F.
Date: 11/12/93
Case: 21177
Region: VI
EMV: 947
Matrix: SOIL

MSQ FILE(S): 111293Z.MSQ

No.	Time	File Name	level	Matrix	Dilution Scheme	Dil. Fact.	Re-runs	VOA No.	pH	Tape No.	Removed Date/Time	Returned Date/Time	Stor. Loc.	Analysis & Code
1	19:32	FAR25VR	N	SOIL	5gm → 5mls	1:1		14	NA	ENCOTEC	11/12/93 (18:59)	11/12/93 (18:59)	#6	B624
2	20:05	FAR31VR	↓	↓	↓	↓		15	↓	33-93-Z	↓	↓	↓	↓
3	20:37	FAR32VR	↓	↓	↓	↓		16	↓	↓	↓	↓	↓	↓
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														

Standards identification: VOA I.S.: 164 , VOA HSL: 163 , VOA SURR: 165 .

Sample analysis codes: A) Analysis B)re-analysis for EICP criteria C)re-analysis for dilution D)carry-over blank

Balance check:	Weight:	Reading:
	1.00g	1.00g
	2.00g	2.02g
	5.00g	5.01g

1082

ENCOTEC

GC/MS
CLP ANALYSIS LOG

PAGE #

1333

DETERMINATION: VOA
INSTRUMENT 026 CONDITONS:
Original Run Log, Tune, and Standards
with Case # 21141, SDG # DFR54

Analyst: D.A.7.
Date: 11/13/93
Case: 21141 / 21170
Region: IV / V
EMV: 971 ~~947~~ DA7 11/13/93
Matrix: H_2O

MSQ FILE(S): 111393.MSQ

No.	Time	File Name	level	Matrix	Dilution Scheme	Dil. Fact.	Re-runs	VOA No.	pH	Tape No.	Removed Date/Time	Returned Date/Time	Stor. Loc.	Analysis & Code
1	7:01	BFB1113Z	NA	NA	NA	NA		3	NA	ENCOTEC	NA	NA	NA	NA
2	7:25	200VZ1113	↓	↓	↓	↓		4	↓	33-93-Z	↓	↓	↓	↓
3	7:59	100VZ1113	↓	↓	↓	↓		5	↓	↓	↓	↓	↓	↓
4	8:30	50VZ1113	↓	↓	↓	↓		6	↓	↓	↓	↓	↓	↓
5	9:01	20VZ1113	↓	↓	↓	↓		7	↓	↓	↓	↓	↓	↓
6	9:33	10VZ1113	↓	↓	↓	↓		8	↓	↓	↓	↓	↓	↓
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17												D.A.7. 11/13/93		
18														
19														
20														

Standards identification: VOA I.S.: 169, VOA HSL: 168, VOA SURR: 170.

Weight: Reading:

Sample analysis codes: A) Analysis B)re-analysis for EICP criteria C)re-analysis for dilution D)carry-over blank

Balance check: NA NA

ENCOTEC

GC/MS
CLP ANALYSIS LOG

PAGE #

DETERMINATION: VOA
INSTRUMENT 026 CONDITONS:
Original Run Log, Tune, and Standards
with Case # 21141, SDG # DFR54

Analyst: D.A.F.
Date: 11/13/93
Case: 21141/21170
Region: IV / V
EMV: 996
Matrix: H2O

MSQ FILE(S): 113393Z.MSQ

No.	Time	File Name	level	Matrix	Dilution Scheme	Dil. Fact.	Re-runs	VOA No.	pH	Tape No.	Removed Date/Time	Returned Date/Time	Stor. Loc.	Analysis & Code
1	10:34	BFB113Z1	NA	NA	NA	NA		11	NA	ENCOTEC	NA	NA	NA	NA
2	10:41	50VZ113Z						12		33-93-Z				
3	11:15	VMB113Z						13						
4	11:47	VWB113Z						14						
5	12:22	DFR54V	N	H2O	5mls	1:1		15	<2		11/13/93 (12:00)	11/13/93 (12:30)	#05	A624
6	12:52	DFR55V						16						
7	13:24	DFR66V						1						
8	13:56	DFR72V						2						
9	14:28	DFR72VM						3						
10	15:00	DFR72VD						4						
11	15:31	DFR73V						5						
12	16:03	DFR74V						6						
13	16:35	DFR75V					1:2	7						
14	17:06	24058V					7/99 11/10/93	8	7					
15	17:38	EXQ14V						9	<2					
16	18:10	EXQ12V						10						
17	18:41	EXQ12VM						11						
18	19:13	EXQ12VD						12						
19	19:44	EXQ15V						13						
20	20:15	23957V						14	7					

Standards identification: VOA I.S.: 169, VOA HSL: 168, VOA SURR: 170.

Weight: Reading:

Balance check: NA NA

Sample analysis codes: A) Analysis B)re-analysis for EICP criteria C)re-analysis for dilution D)carry-over blank

1881

ENCOTEC

GC/MS
CLP ANALYSIS LOG

PAGE #

1335

DETERMINATION: VOA
INSTRUMENT 026 CONDITONS:
Original Run Log, Tune, and Standards
with Case # 21141, SDG # DFR54

Analyst: D.A.F.
Date: 11/13/93 CONT.
Case: 21141 / 21170
Region: IV / V
EMV: 996
Matrix: H2O

MSQ FILE(S): 1113937.MSQ

No.	Time	File Name	level	Matrix	Dilution Scheme	Dil. Fact.	Re-runs	VOA No.	pH	Tape No.	Removed Date/Time	Returned Date/Time	Stor. Loc.	Analysis & Code
1	20:47	EXQ03VR	MED	MED-LEVEL SOIL	4g/10mls x 20µl/5000µl	1:625		15	NA	ENCOTEC 33-93-Z	11/13/93 (12:00)	11/13/93 (12:30)	#26	C624
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16										D.A.F.	11/13/93			
17														
18														
19														
20														

Standards identification: VOA I.S.: 169, VOA HSL: 168, VOA SURR: 170.

Weight: Reading:

Sample analysis codes: A) Analysis B)re-analysis for EICP criteria C)re-analysis for dilution D)carry-over blank

Balance check: NA NA

ENCOTEC

GC/MS
CLP ANALYSIS LOG

PAGE #

1336

DETERMINATION: VOA
INSTRUMENT 026 CONDITONS:
Original Run Log, Tune, and Standards
with Case # 21244, SDG # HP076

Analyst: D.A.T.
Date: 11/24/93
Case: 21244
Region: VIII
EMV: 1021
Matrix: H_2O

MSQ FILE(S): 112493Z.MSQ / 112493Z1.MSQ

No.	Time	File Name	level	Matrix	Dilution Scheme	Dil. Fact.	Re-runs	VOA No.	pH	Tape No.	Removed Date/Time	Returned Date/Time	Stor. Loc.	Analysis & Code
1	8:47	BFB1124Z	NA	NA	NA	NA		6	NA	ENCOTEC	NA	NA	NA	NA
2	9:28	200VZ1124						7		34-93-Z				
3	10:00	100VZ1124						8						
4	10:41	50VZ1124						9						
5	11:08	20VZ1124						10						
6	11:40	10VZ1124						11						
7	—	VWB1124						12						
8	13:51	VWB1124Z						13						
9	14:23	DFR75VR	N	H_2O	2.5mls → 5mls	1:2		14	<2		11/24/93 (13:45)	11/24/93 (14:15)	#05	C624
10	14:58	HP076V			5mls	1:1		15						A624
11	15:30	HP169V						16						
12	16:02	HP169VM						1						
13	16:34	HP169VD						2						
14	17:06	HP178V						3						
15	17:38	HP179V						4						
16	18:09	HP180V						5						
17	18:41	24929V						6	7					
18														
19											D.A.T.	11/24/93		
20														

Standards identification: VOA I.S.: 172, VOA HSL: 171, VOA SURR: 173.

Weight: Reading:

Sample analysis codes: A) Analysis B)re-analysis for EICP criteria C)re-analysis for dilution D)carry-over blank

Balance check: NA NA

ENCOTEC

GC/MS
CLP ANALYSIS LOG

PAGE #

1837

DETERMINATION: VOA
INSTRUMENT 026 CONDITONS:
Original Run Log, Tune, and Standards
with Case # 21170 , SDG # EXQ 02

Analyst: D.A.F.
Date: 11/28/93
Case: 21170
Region: V
EMV: 1021
Matrix: MED-LEVEL-SOILS

MSQ FILE(S): 112893Z.MSQ

No.	Time	File Name	level	Matrix	Dilution Scheme	Dil. Fact.	Re-runs	VOA No.	pH	Tape No.	Removed Date/Time	Returned Date/Time	Stor. Loc.	Analysis & Code
1		~~BFB112893Z~~	DAF 11/28/93											
2	11:01	BFB1128Z	NA	NA	NA	NA		7	NA	ENCOTEC	11/28/93 (NA)	11/28/93 (NA)	NA	NA
3	11:28	50VZ1128						8		34-93-Z				
4	—	VMB1128						9						
5	12:33	VMB1128Z						10						
6	13:05	EXQ03VM	MED	MED LEVEL SOIL	4g/10mls x 20µl/5000µl	1:625		11			11/28/93 (12:40)	11/28/93 (12:50)	#C6	A624
7	13:37	EXQ03VD						12						
8														
9														
10														
11														
12														
13														
14														
15														
16														
17												D.A.F. 11/28/93		
18														
19														
20														

Standards identification: VOA I.S.: 172 , VOA HSL: 171 , VOA SURR: 173 .

Weight: Reading:

Sample analysis codes: A) Analysis B)re-analysis for EICP criteria C)re-analysis for dilution D)carry-over blank

Balance check: NA NA

ENCOTEC

EXTRACTION OF PEST/BNA ANALYTES IN SOIL MATRIX

LOGBOOK PAGE#_____

TE 11/11/93 BLANK CODE:

CASE# 21170 PBLK L-1

SDG# EXQ02 SBLK L-1

BATCH#_____ MB 111193-1

PEST SURROGATE: EPA PEST
LOW LEVEL AMT: 2.0ML ID 5608-1-93
PREP DATE 10/8/93 DJB

PEST SPIKE: EPA PEST
LOW LEVEL AMT: 1.0ML ID MS608-1-93
PREP DATE 11/8/93 DJB

BNA SURROGATE: S- 1784
LOW LEVEL AMT: 0.5ML ID BNA Surrogate
PREP DATE 11/2/93
MED LEVEL AMT: 0.5ML ID_____
PREP DATE___/___/___

BNA SPIKE: MS- 1183
LOW LEVEL AMT: 0.5ML ID BNA Spike
PREP DATE 9/22/93
MED LEVEL AMT: 0.5ML ID_____
PREP DATE___/___/___

___BNA LOW SOIL ___BNA MED SOIL X PEST/BNA LOW SOIL SURROGATE/SPIKE CHECKED BY MCP

EPA ID	ENCOTEC #	SAMPLE AMT.(g)	INIT pH	%T.S.	FINAL VOL.(ML) 608	FINAL VOL.(ML) 625	REMARKS Final Volume 625 DJMB 11-30-93
EXQ02	23944	30.00	6.98	79.3	1.0	2.0	0.5 ml
(EXQ02) MS	23944	30.02	~~7.0~~ 6.98 KH 11-18-93	79.3	1.0	2.0	Pest only
(EXQ02) MSD	23944	30.01	6.98	79.3	1.0	2.0	Pest only
(EXQ02) MS	23944	29.99	6.98	79.3	—	2.0	BNA only
(EXQ02) MSD	23944	30.03	6.98	79.3	—	2.0	BNA only
EXQ03	23945	30.04	7.02	79.3	1.0	2.0	-625 extracted Med. Level
EXQ04	~~23945~~ 23946 KH 11-4-93	30.03	7.15	75.0	1.0	2.0	
EXQ05	23947	29.97	7.10	80.9	1.0	2.0	
EXQ06	23948	29.99	6.99	76.1	1.0	2.0	
EXQ07	23949	30.05	7.04	91.4	1.0	2.0	
EXQ08	23950	29.98	6.97	79.3	1.0	2.0	
EXQ09	23951	30.04	7.00	89.6	1.0	2.0	
EXQ10	23952	30.04	7.11	91.1	1.0	2.0	

DJMB 11-30-93

GPC CALIBRATION CHECK:

CUSTODY INFORMATION

	LOCATION	DATE/TIME	ANALYST
SAMPLES TAKEN FROM/	LI	11-11-93 7:00	Kurt
SAMPLES BROUGHT TO/	EXT	7:00	Kurt
SAMPLES RETURNED TO/	LI	8:30	Kurt
SOIL EXTRACTS STORED	#12	12:30	Kurt
PEST EXTRACTS TO___/	GC II	11/29/93 0930	JDM
BNA EXTRACTS TO___/	GCMS	11-24-93 430	JMB

BALANCE CHECK

WT USED(g)	20.00	50.00
BAL.RD.(g)	20.00	49.98

CAL. REQ.(+/- 0.05g) Y (N)

pH CALIBRATION

BUFFER/	7.00	10.00
pH RDG/	7.00	10.00

	ANALYST	DATE/TIME
pH/	Kurt	11-12-93 9:00
TS/	Kurt	11-12-93 9:00
EXT./	Kurt	11-11-93 6:30
~~GPC~~ CONC/	JMB	11-24-93 11:00
GPC C/U_/	EMN	11/22/93 1200
GPC CONC*/	JMB	11-18-93 2:00
C/U/	JMB	11-27-93 1:00

JMB 11-24-93

PEST C/U: ANALYST JMB C/U DATE 11/28/93
COLUMN PACKING: 3cc, Florisil, 1.0g
LOT#: 952075
ELUTING SOLVENT: ACETONE/HEXANE, 10/90
FRACTION SAVED: 0-10ML

SULFUR C/U: ANALYST_____ C/U DATE___/___/___
C/U REAGENT: Hg Cu TBA PREP DATE___/___/___

*STANDARD PEST/BNA SPLIT

CHECKED BY QA SUPERVISOR Lisa M Buckholz DATE 11/30/93 JMB 11-30-93

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ACLPTBNS.frm 09/30/93

ENCOTEC

EXTRACTION OF PEST/BNA ANALYTES IN SOIL MATRIX

LOGBOOK PAGE#_____

DATE 11/11/93 BLANK CODE:

CASE# 21170 PBLK L-1

SDG# EXQ02 SBLK L-1

BATCH#_____ MB 111193-1

PEST SURROGATE: EPA PEST
LOW LEVEL AMT: 2.0ML ID 5608-1-93
PREP DATE 10/8/93

PEST SPIKE: EPA PEST
LOW LEVEL AMT: 1.0ML ID MS608-1-93
PREP DATE 11/8/93

BNA SURROGATE: S- 1784
LOW LEVEL AMT: 0.5ML ID BNA Surr.
PREP DATE 11/2/93
MED LEVEL AMT: 0.5ML ID_____
PREP DATE___/___/___

BNA SPIKE: MS- 1183
LOW LEVEL AMT: 0.5ML ID BNA spike
PREP DATE 9/22/93
MED LEVEL AMT: 0.5ML ID_____
PREP DATE___/___/___

___BNA LOW SOIL ___BNA MED SOIL X PEST/BNA LOW SOIL SURROGATE/SPIKE CHECKED BY MLP

EPA ID	ENCOTEC #	SAMPLE AMT.(g)	INIT pH	%T.S.	FINAL VOL.(ML) 608	FINAL VOL.(ML) 625	Final Vol (ml) 625 XMB 11-30-93 REMARKS
EXQ11	23953	30.05	7.06	86.9	1.0	2.0	0.5
MB111193-1	PBLKL-1/SBLKL-1 11-11-93	—	—	—	1.0	2.0 XMB 11-30-93	0.5

DQ 12/03/93

CUSTODY INFORMATION

	LOCATION	DATE/TIME	ANALYST
SAMPLES TAKEN FROM/	LI	11-11-93 7:00	Kurt
SAMPLES BROUGHT TO/	Ext	7:00	Kurt
SAMPLES RETURNED TO/	LI	8:30	Kurt
SOIL EXTRACTS STORED	#12	12:30	Kurt
PEST EXTRACTS TO___/	N/A	N/A	N/A
BNA EXTRACTS TO___/	GCMS	11-24-93 4:30	XMB

GPC CALIBRATION CHECK:

BALANCE CHECK

WT USED(g)	20.00	50.00
BAL.RD.(g)	20.00	49.98

CAL. REQ.(+/- 0.05g) Y (N)

pH CALIBRATION

BUFFER/	7	10
pH RDG/	7.00	10.00

	ANALYST	DATE/TIME
pH/	Kurt	11-12-93 9:00
TS/	Kurt	11-12-93 9:00
EXT./	Kurt	11-11-93 6:30
~~GPC~~ CONC/	XMB	11-24-93 11:00
XMB 11-24-93 GPC C/U/	Emm	11/22/93 1200
GPC CONC*/	XMB	11-18-93 2:00
C/U/	XMB	11-27-93 1:00

*STANDARD PEST/BNA SPLIT

PEST C/U: ANALYST XMB C/U DATE 11/28/93
COLUMN PACKING: 3cc, Florisil, 1.0g
LOT#: 952076
ELUTING SOLVENT: ACETONE/HEXANE, 10/90
FRACTION SAVED: 0-10ML

SULFUR C/U: ANALYST_____ C/U DATE___/___/___
C/U REAGENT: Hg Cu TBA PREP DATE___/___/___

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CHECKED BY QA SUPERVISOR Lisa M Budkhatz DATE 11/24/93 30 XMB 11-30-93

ACLPTBNS.frm 09/30/93

ENCOTEC

EXTRACTION OF PEST/BNA ANALYTES IN SOIL MATRIX

LOGBOOK PAGE#_____

DATE 11/13/93 BLANK CODE:

CASE# 21170 PBLK —

SDG# EXQ02 SBLK M-1

BATCH#_____ MB 111393-1

PEST SURROGATE: EPA PEST
LOW LEVEL AMT: 2.0ML ID_____ DM 12/03/93
PREP DATE___/___/___

PEST SPIKE: EPA PEST
LOW LEVEL AMT: 1.0ML ID_____
PREP DATE___/___/___

BNA SURROGATE: S-_____
LOW LEVEL AMT: 0.5ML ID_____
PREP DATE___/___/___
MED LEVEL AMT: 0.5ML ID S-1784
PREP DATE 11/02/93

BNA SPIKE: MS-_____
LOW LEVEL AMT: 0.5ML ID_____
PREP DATE___/___/___
MED LEVEL AMT: 0.5ML ID MS-1183
PREP DATE 9/22/93

___BNA LOW SOIL X BNA MED SOIL ___PEST/BNA LOW SOIL SURROGATE/SPIKE CHECKED BY AMB

EPA ID	ENCOTEC #	SAMPLE AMT.(g)	INIT pH	%T.S.	FINAL VOL.(ML) 608	FINAL VOL.(ML) 625	FV(ml) 625 REMARKS
~~EXQ07~~	~~23949~~	PSK 11/15/93			DM 12/03/93	~~2.0~~	AMB 11-24-93
~~EXQ11~~	~~23953~~	PSK 11/15/93				~~2.0~~	AMB 11-24-93
~~EXQ06~~	~~23948~~	PSK 11/8/93					
EX Q03	23945	1.00	7.02	79.3		2.0	0.5
(ms) EXQ03	23945	1.00	7.02	79.3		2.0	0.5
(msD) EXQ03	23945	1.00	7.02	79.3		2.0	0.5
~~LCS~~	~~11/13/93~~	—					AMB 11-24-93
MB111393-1	SBLKM-1 11/13/93	—	—	—		2.0	0.5
					AMB 11-30-93		
							DM 12/07/93
Pest into Solvent 11/13/93 KMH							

CUSTODY INFORMATION

	LOCATION	DATE/TIME	ANALYST
SAMPLES TAKEN FROM_/	WR	11/13/93 1200	KMH
SAMPLES BROUGHT TO_/	ORG EXT	11/13/93 1200	KMH
SAMPLES RETURNED TO/	WR	11/13/93 1400	KMH
SOIL EXTRACTS STORED	Ref. #12	11/15/93 1400	PSK
PEST EXTRACTS TO___/			
BNA EXTRACTS TO__/	ACMS	11-24-93 430	AMB

GPC CALIBRATION CHECK:

BALANCE CHECK

WT USED(g)	2	0.5
BAL.RD.(g)	1.99	0.49

CAL. REQ.(+/- 0.05g) Y (N)

pH CALIBRATION

BUFFER/	7	10
pH RDG/	2.00	10.00

	ANALYST	DATE/TIME
pH/	Kurt	11/12/93 2000
TS/	"	" "
EXT./	PSK	11/15/93 1215
GPC CONC/	—	—
GPC C/U_/	EMN	11/22/93 1200
CONC*/	AMB	11-24-93 1100
C/U/	~~AMB~~ AMB 11-30-93	~~112~~ 30

PEST C/U: ANALYST ~~AMB~~ C/U DATE ~~11/28/93~~ DM 12/03/93
COLUMN PACKING: 3cc, Florisil, 1.0g
LOT#: 952075 DM 12/03/93
ELUTING SOLVENT: ACETONE/HEXANE, 10/90
FRACTION SAVED: 0-10ML

SULFUR C/U: ANALYST_____ C/U DATE___/___/___
C/U REAGENT: Hg Cu TBA PREP DATE___/___/___

*STANDARD PEST/BNA SPLIT

CHECKED BY QA SUPERVISOR Linda M Buckholz DATE 11/24/93

1840

ACLPTBNS.frm 09/30/93

ENCOTEC

EXTRACTION OF PESTICIDES/PCBS FROM WATER MATRIX

LOGBOOK PAGE#_____

BLANK CODE:

DATE 11/05/93 PBLKW- 1

CASE# 21170 MB 110593-1

SDG# EXQ02 BATCH# 313 B

PEST SURROGATES:
SCLPW 1.0ML ID S608-1-93 (V)
PREP DATE 10/08/93

PEST QC SPIKES:
MSCLPW 1.0ML ID EPA Pest Spike
PREP DATE 06/16/92 (B)

SAMPLE SPIKED EXQ12

SURROGATE/SPIKE CHECKED BY: SGS

CLIENT ID	ENCOTEC#	INIT pH	AMT.(L)	608	REMARKS
EXQ12	23955	7	1.0	✓	
MS (EXQ12)	23955	7	1.0	✓	
MSD (EXQ12)	23955	7	1.0	✓	
MB110593-1	PBLKW-1	7	1.0	✓	

DDM 11/12/93

* FINAL VOLUME FOR ALL EXTRACTS = 2.0ML. SPLIT 2ML/10ML

CUSTODY INFORMATION

SAMPLE TAKEN FROM__/
RETURNED TO_____/
PEST EXTRACTS STORED
PEST EXTRACTS TO___/

	LOCATION	DATE/TIME	ANALYST
	R#1	11/5/93 1600	DDM
	R#1	11/5/93 1610	DDM
	R#2	11/5/93 1650	DDM
	GC IV	11/12/93 1600	DDM
EXT._/		11/5/93 1600	DDM
CONC./		11/10/93 13:00	SGS
C/U__/		11/12/93 1000	SGS

PEST C/U:ANALYST SGS
COLUMN PACKING: 3cc, Florisil, 1.0g, LOT# 952075
ELUTING SOLVENT: ACETONE/HEXANE, 10/90
FRACTION SAVED: 0-10ML

SULFUR C/U:ANALYST_____
C/U REAGENT: Hg Cu TBA PREP DATE ___/___/___
DBC SURROGATE CHECK: 0.20ML, 1.0PPM
(ADDED TO 1.0ML HEXANE)

1841

CHECKED BY QA SUPERVISOR : [signature] DATE 11/12/93

ACLPPSTW.frm 09/30/93

ENCOTEC

BNA EXTRACTION FROM WATER MATRIX

LOGBOOK PAGE#_____

BLANK CODE:

BNA SURROGATE: S- 1784

BNA SPIKE: MS- CLP BNA

DATE 11 / 08 / 93

SBLKW- 1

AMT: 0.5 ML ID 11/02/93

AMT: 0.5 ML ID lot #1120

CASE # 21170

MB 110893-3

SAMPLE SPIKED EXQ12 (23955)

SDG# EXQ02

BATCH # 316B

SURROGATE/SPIKE CHECKED BY: DM

CLIENT ID	ENCOTEC #	AMT.(L)	625	REMARKS
EXQ 12	23955	1.0	✓	
MB 110893-3	SBLKW-1	1.0	✓	
MS (EXQ12)	23955	1.0	✓	
MSD (EXQ12)	23955	1.0	✓	
				SGS 11/09/93

* FINAL VOLUME = 1.0 ML FOR ALL EXTRACTS UNLESS NOTED OTHERWISE IN REMARKS COLUMN.
* EXTRACTED BY CONTINUOUS LIQUID/LIQUID EXTRACTORS, 18hrs EXTRACTION RUN.

ANALYST	DATE/TIME
SGS	11/08/93 16:30
SGS	11/09/93 17:00

SAMPLES TAKEN FROM
SAMPLES BROUGHT TO
SAMPLES RETURNED TO
BNA EXTRACTS STORED
BNA EXTRACTS TO

LOCATION	DATE/TIME	ANALYST
LIR#1	11/08/93 15:30	SGS
CLP OE	11/08/93 15:40	SGS
LIR#1	11/08/93 16:30	SGS
R#2	11/09/93 17:00	SGS
GC/MS II	11/09/93 17:00	SGS

CONTINUOUS EXTRACTOR

EXT. CONC.

ID	START 11/08	STOP 11/09	ANLST	ID	START	STOP	ANLST
12	17:15	11:15	DM				
MS	↓	↓	↓				
MSD							
MB							

CHECKED BY QA SUPERVISOR: [signature] DATE: 11 / 09 / 93

ACLPBNAW.frm 08/07/92

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ENCOTEC

GC/MS CLP ANALYSIS LOG

PAGE #

1343

DETERMINATION: BNA

INSTRUMENT 025 CONDITONS:

Original Run Log, Tune, and Standards

with Case # 20920 , SDG # X5523

MSQ FILE(S): 112093Y.91

Analyst: MAO

Date: 11/20/93

Case: 20920

Region: NA

EMV: 1300

No.	Time 10:51	File Name MAO 11/20/93	level	Matrix	Dilution Scheme	Dil. Fact.	Re-runs	Tape No.	Removed Date/Time	Returned Date/Time	Stor. Loc.	Analysis & code
1	~~11:16~~	DFTPP 1120Y						46-93-Y				
2	12:47	160BY1120										
3	14:19	120BY1120										
4	15:05	80BY1120										
5	15:51	50BY1120										
6	13:33	20BY1120										
7	17:23	LWB1025Y	N	H_2O	500 ml	1/1			17:00 11/20/93	22:00 11/20/93	# C2	A625
8	18:03	X5524BR1										
9	18:53	X5523BR1										
10	20:00	X5523BR2										
11	20:45	LCS1025R										
12	21:30	LCD1025R										
13												
14												
15												
16												
17												

MAO 11/20/93

Standards identification: I.S.: LA37810 , B/N HSL: 37 , Acid HSL: 38 .

Sample analysis codes:

A) analysis

B)re-analysis for EICP criteria

C)re-analysis for dilution

D)carry-over blank

ENCOTEC

GC/MS
CLP ANALYSIS LOG

PAGE #

1344

DETERMINATION: BNA

INSTRUMENT 025 CONDITONS:

Original Run Log, Tune, and Standards

with Case # 21141, SDG # DFR57

MSQ FILE(S): 1124934-91

Analyst: MDW

Date: 11/24/93

Case: 21141/21170/21153

Region: IV, V, IX

EMV: 1350

No.	Time	File Name	level	Matrix	Dilution Scheme	Dil. Fact.	Re-runs	Tape No.	Removed Date/Time	Returned Date/Time	Stor. Loc.	Analysis & code
1	11:41	50BY 1124Y						47-93-Y				
2	13:58	DFR55BR	N	H2O	250+250	1/2			11/24/93 12:00	11/24/93 17:00	#C2	CG25
3	14:44	DFR73BR			1000 uL	1/1						BG25
4	15:30	DFR75BR				1/1						
5	16:15	DFR72BDR				1/1						
6	17:28	LWB1108	N	H2O	1000 uL	1/1		48-93-Y	11/24/93 2:00	11/26/93 10:00	#C2	AG25
7	18:13	EQX12B										
8	18:59	EXQ12BM										
9	19:44	EXQ12BD										
10	20:29	LWB1111	N	H2O	1000	1/1						
11	21:15	YP124B										
12	22:00	YP125B										
13	22:45	YP126B										
14	23:31	YP127B										
15												
16					MDW	11/24/93						
17												

Standards identification: I.S.: LA37810, B/N HSL: 37, Acid HSL: 40.

Sample analysis codes:

A) analysis

B)re-analysis for EICP criteria

C)re-analysis for dilution

D)carry-over blank

ENCOTEC

GC/MS 100246
BNA ANALYSIS LOG

1345

INSTRUMENT 001 CONDITONS: DB-5 (30M, 0.32mM, 0.25u)

Std I.D.s: BN 1786 ACID 1785 SURR 1150+1186 I.S. LA37810

Original Run Log, Tune, and Standards

with Case # 21141, SDG # DFR57

Analyst: DT

Date: 11.30.93

EMV: 1500

Case: 21141; K&D.

Region: IV -

MSQ FILE(S):

No.	Client	Time	File Name	Matrix	Dilution Scheme	Dil. Fact.	Re-runs	Removed Date/Time	Returned Date/Time	Stor. Loc.	Tape No. Encotec-
1		10:58	DFTAP1130A								65-93-A
2		10:58	50BA1130								
3		11:44	20BA1130								
4		12:30	160BA1130								
5		13:16	120BA1130								
6		14:02	80BA1130								
7	K&D IND. SER.	14:48	LWB1123A	H_2O	1000 + 10 µl LS	1:1		11.30-93/10:00	12.01-93/12:15	#13	
8	(32065)	15:34	LCS112393								
9		16:20	LCD112393								
10		17:06	24998B								
11		17:52	AMPIERM								
12	EPA	18:38	DFR60BM	SOIL	500 + 5 µl LS						
13	(77100)	19:23	DFR60BD								
14		-	~~DFR62BM~~				Not needed				
15		-	~~DFR62BD~~								
16		-	~~NLB 1112A~~				Tune				
17		-	~~DFR62B~~				Low level				
18											
19											
20											

D 12.01.93

Sample analysis codes: A) Analysis B) EICPs C) Re-analysis for dilution D) Carry-over blank

	AM	PM
Disk space:	✓	
Namelists:	✓	

ENCOTEC

GC/MS 100248
BNA ANALYSIS LOG

INSTRUMENT 001 CONDITONS: DB-5 (30M, 0.32mM, 0.25u)

Std I.D.s: BN 1786 ACID 1785 SURR 1180+1186 I.S. LA37810

Original Run Log, Tune, and Standards

with Case # 21170 , SDG # EXQ02

Analyst: DT

Date: 12.01.93 (A1)

EMV: 1525

Case: 21170

Region:

MSQ FILE(S): 120193A1-98

No.	Client	Time	File Name	Matrix	Dilution Scheme	Dil. Fact.	Re-runs	Removed Date/Time	Returned Date/Time	Stor. Loc.	Tape No. Encotec-
1		18:17	DFTPP120141	-	-	-	-	-	-	-	66-93-A
2		18:17	VOBA120141	-	-	-	-	-	-	-	
3	EPA	19:03	LSB1111A	Soil	500+5µl I.S.	1:1		12.01.93/16:00	12.02.93/8:00	A13	
4	(75100)	19:49	EXQ02B								
5		20:34	EXQ06B								
6		21:20	EXQ05B								
7		22:06	~~EXQ03B~~ DT 12-01-93				Used Level DT 12.01.93	1:50			
8		22:52	EXQ04B				ERLP				
9		23:38	EXQ09B				ERLP				
10		0:24	EXQ10B				ERLP				
11		1:10	EXQ07B				ERLP				
12		1:56	EXQ08B				ERLP				
13		2:41	EXQ11B				ERLP				
14		3:27	EXQ02BM				ERLP				
15		4:13	EXQ02BD				ERLP				
16											
17											
18											
19											
20											

Sample analysis codes: (A) Analysis; B) EICPs; C) Re-analysis for dilution; D) Carry-over blank

	AM	PM
Disk space:	Taped	
Namelists:	✓	

ENCOTEC

GC/MS 100249
BNA ANALYSIS LOG

INSTRUMENT 001 CONDITONS: DB-5 (30M, 0.32mM, 0.25u)

Std I.D.s: BN 1786 ACID 1785 SURR 1180+1186 I.S. UK37810

Original Run Log, Tune, and Standards

with Case # 21170 , SDG # EXQ02

Analyst: DT

Date: 12-02-93

EMV: 1525

Case: 21170

Region:

MSQ FILE(S): 120293A.91

No.	Client	Time	File Name	Matrix	Dilution Scheme	Dil. Fact.	Re-runs	Removed Date/Time	Returned Date/Time	Stor. Loc.	Tape No. Encotec-
1		11:31	DFTPP1202A								66-93-A
2		12:13	SOBA1202								
3	EPA	16:03	EXQ04BR	Soil	500 + 5 µl I.S	1:1		12.02.93/	12.02.93/ 12:15	#13	
4	(75100)	16:49	EXQ09BR								
5		17:35	EXQ10BR				Erp				
6		18:21	EXQ07BR		500+500 + 10 µl I.S	1:2					
7		19:07	EXQ08BR		500 + 5 µl I.S	1:1					
8		19:53	EXQ11BR								
9		20:39	EXQ02BMR				Erp				
10		21:25	EXQ02BDR				Erp				
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Sample analysis codes: A) Analysis (B) EICPs (C) Re-analysis for dilution D) Carry-over blank

	AM	PM
Disk space:	✓	
Namelists:		

1317

ENCOTEC

GC/MS 100250
BNA ANALYSIS LOG

INSTRUMENT 001 CONDITONS: DB-5 (30M, 0.32mM, 0.25u)

Std I.D.s: BN 1786 ACID 1785 SURR 1180+1186 I.S. LA37810

Original Run Log, Tune, and Standards

with Case # 21153 , SDG # YP164

Analyst: DT

Date: 12.03.93

EMV: 1500

Case: 21170, 21153

Region: IX

MSQ FILE(S): 1203093A.91

No.	Client	Time	File Name	Matrix	Dilution Scheme	Dil. Fact.	Re-runs	Removed Date/Time	Returned Date/Time	Stor. Loc.	Tape No. Encotec-
1		16:16	DFTPP1203A					-	-	-	65-93-A
2		16:16	SOBA1203					-	-	-	
3	EPA	17:02	EXQ03B	soil	20+980 +10µl I.S	1:50		12.3.93/15:00	12.5.93/10:10	#13	
4	(75100)	17:48	LWB1117A	H2O	1000+10 µl I.S	1:1					
5		18:34	LWB1118A								
6		19:20	~~LWB1119A~~ (*) 12.5.93				Blank injection				
7		20:07	YP164B								
8		20:53	YP165B								
9		21:39	YP166B								
10		22:25	YP167B								
11		23:11	YP168B								
12		23:58	YP169B								
13		0:44	YP170B								
14		1:30	YP171B								
15		2:16	YP172B								
16		3:03	YP169BM								
17		3:49	YP169BD								
18											
19											
20											

	AM	PM
Disk space:	✓	
Namelists:	✓	

Sample analysis codes: (A) Analysis B) EICPs C) Re-analysis for dilution D) Carry-over blank

13/18

1319

PESTICIDES/PCBs
CLP ANALYSIS LOG

Case/SAS Number: 21141; 21226; 21268; 21170 Instrument ID(s): 3400-A/3400-B Date: 11/22/93 - 11/30/93

SDG Number: DFR54; DFR57; HL692; YN452; EXQ02 Amount Injected (uL): 1.0 Analyst: DLB; BG

Inj. Number	Sample Name ENCOTEC/EPA ID	Data File ID	Matrix	Dilution Scheme	Analysis Code	Dil. Factor	Inj. Time	Chain-of-Custody REMOVED Date/Time	Chain-of-Custody RETURNED Date/Time	Chain-of-Custody Storage Location
1	PIBLK01,I,;	0716A/B	Standard	NA	A	1:1	1716	11/22/93 1400	11/22/93 1700	#2
2	RESC01,I,;						1743			
3	PEM01,I,;						1810			
4	AR166001,I,;						1837			
5	AR122101,I,;						1904			
6	AR123201,I,;						1931			
7	AR124201,I,;						1959			
8	AR124801,I,;						2026			
9	AR125401,I,;						2053			
10	TOXAPH01,I,;						2120			
11	INDAL01,I,;						2147			
12	INDBL01,I,;						2215			
13	INDAM01,I,;						2242			
14	INDBM01,I,;						2309			
15	INDAH01,I,;						2336			
16	INDBH01,I,;						0003			
17	PIBLK02,Q,;						0030			
18	PEM02,Q,;						0057			
19	T.chlordane						0124			
20	PBLKW1/MB110893-1		Blank				0151			#4
21	DFR54/24051		water				0218			
22	DFR55/24052						0245			
23	DFR66/24053						0312			
24	DFR72/24054						0339			
25	DFR73/24055						0406			
26	DFR74/24056						0433			
27	DFR75/24057						0500			
28	DFR72MS/24054MS						0527			
29	DFR72MSD/24054MSD						0555			
30	PIBLK40		Standard		C		0622			#2

Analysis Code Definitions: A = Analysis B = Re-analysis for dilution C = Carry-over blank

Original run log, external standard tables (with chromatograms for initial calibration, continuing calibration and instrument blanks) are with Case/SAS #: 21268 SDG #: YN452

CLPPCBLO.for 09/09/93

1350

PESTICIDES/PCBs
CLP ANALYSIS LOG

Case/SAS Number: 21141; 21226; 21268; 21170 Instrument ID(s): 3400-A/3400-B Date: 11/22/93 - 11/30/93

SDG Number: DFR54; DFR57; HL692; YN452; ZAQ02 Amount Injected (uL): 1.0 Analyst: DB; BG

Inj. Number	Sample Name ENCOTEC/EPA ID	Data File ID	Matrix	Dilution Scheme	Analysis Code	Dil. Factor	Inj. Time	Chain-of-Custody REMOVED Date/Time	Chain-of-Custody RETURNED Date/Time	Chain-of-Custody Storage Location
31	PBLKW1/MB111693-1	076 A/B	BLANK	NA	A	1:1	0649	11/22/93 1400	11/22/93 1700	#4
32	TCLPBLK/111193		↓				0716			
33	HL692/24319		TCLP				0743			
34	HL692MS/24319MS						0810			
35	HL692MSD/24319MSD		↓				0837	↓	↓	↓
36	PIBLK03		Standard				0904	11/23/93 0830	11/23/93 1000	#2
37	INDAM02						0931			
38	INDBM02						0958			
39	PIBLK04						0931			
40	PEM03		↓				0958			↓
41	PBLKW2/MB112393-1		Blank				1054			#4
42	YN446/25145		water				1121			
43	YN473/25146						1148			
44	YN448/25056						1215			
45	YN474/25057						1242			
46	YN446MS/25145MS						1309			
47	YN446MSD/25145MSD		↓				1336			
48	PBLKW1/MB111993-2		Blank				1403			
49	YN475/24876		water				1430			
50	YN452/24838		↓				1457			↓
51	PIBLK05		Standard				1524			#2
52	INDAM03						1551			
53	INDBM03						1618	↓	↓	↓
54	PIBLK06						0858	11/29/93 0800	11/29/93 1000	#2
55	PEM04		↓				0945			↓
56	GPC-AR/111693A		QC				1053			#4
57	ZZZZZ/ZZZZZ		Sample				1125			
58	PBLKL1/MB111093-1		Blank				1152			
59	DFR57/24059		SOIL				1219			
60	DFR58/24060	↓	SOIL	↓	↓	↓	1246	↓	↓	↓

Analysis Code Definitions: A = Analysis B = Re-analysis for dilution C = Carry-over blank

Original run log, external standard tables (with chromatograms for initial calibration, continuing calibration and instrument blanks) are with Case/SAS #: 21268 SDG #: YN452

CLPPCBLOG.fm 09/09/93

1831

PESTICIDES/PCBs
CLP ANALYSIS LOG

Case/SAS Number: 21141, 21226, 21268, 21170 Instrument ID(s): 3400 A / 3400 B Date: 11-22-93 - 11-30-93

SDG Number: DFR54, DFR57, HL692, YN452, EXQ02 Amount Injected (uL): 1.0 Analyst: BMG DB

Inj. Number	Sample Name ENCOTEC/EPA ID	Data File ID	Matrix	Dilution Scheme	Analysis Code	Dil. Factor	Inj. Time	Chain-of-Custody REMOVED Date/Time	Chain-of-Custody RETURNED Date/Time	Chain-of-Custody Storage Location
61	DFR59 / 24061	076A/B	soil	NA	A	NA	1313	11-29-93 0900	11-29-93 1200	#4
62	DFR60ms / 24062ms						1340			
63	DFR60msD / 24062msD						1407			
64	DFR60 / 24062						1434			
65	DFR61 / 24063						1501			
66	DFR65 / 24067						1528			
67	DFR64 / 24066						1555			
68	DFR67 / 24068						1622			
69	DFR70 / 24071						1655			
70	DFR68 / 24069						1722			
71	DFR63 / 24065						1749			
72	DFR71 / 24072						1816			
73	DFR69 / 24070						1843			
74	DFR62 / 24064			100ml/900	A	10	1910			
75	DFR62DL / 24064DL			50ml/950	DL	20	1937			
76	FLO-CHK / 952075		std	NA	A	NA	2004	12-2-93 BMG		
77	GPC-SPK / 1116935						~~2058~~ 20	31		
78	PIBLK07						~~2126~~ 20	58		#2
79	INDAm04						~~2153~~ 21	26		
80	INDBm04						~~2220~~ 21	53		
81	PBLKW1 / MB110593-1		Water				~~2247~~ 22	20		#4
82	EXQ12 / 23955						~~2314~~ 22	47		
83	EXQ12ms / 23955ms						~~2341~~ 23	14		
84	EXQ12msD / 23955msD						~~0008~~ 23	41		
85	PBLKL1 / MB111193-1		soil				0008			
86	EXQ02 / 23944						0035			
87	EXQ02ms / 23944ms						0102			
88	EXQ02msD / 23944msD						0129			
89	EXQ06 / 23948						0156			
90	EXQ03 / 23945						0223			

Analysis Code Definitions: A = Analysis B = Re-analysis for dilution C = Carry-over blank

Original run log, external standard tables (with chromatograms for initial calibration, continuing calibration and instrument blanks) are with Case/SAS #: 21268 / 21141 SDG #: YN452 / DFR57

12-02-93 DMB

CLPPCBLO.for 09/09/93

1352

PESTICIDES/PCBs
CLP ANALYSIS LOG

Case/SAS Number: 21141, 21226, 21268, 21170
SDG Number: DFR54, DFR57, HL692, YN452, EXRD2

Instrument ID(s): 3400 A / 3400B
Amount Injected (uL): 1.0

Date: 11-22-93 11-30-93
Analyst: BMG, DB

Inj. Number	Sample Name ENCOTEC/EPA ID	Data File ID	Matrix	Dilution Scheme	Analysis Code	Dil. Factor	Inj. Time	Chain-of-Custody REMOVED Date/Time	Chain-of-Custody RETURNED Date/Time	Chain-of-Custody Storage Location
91	EXRD5/ 23947	0764/B	SOIL	NA	A	NA	0250	11-29-93 0800	11-29-93 1200	# 4
92	EXR04/ 23946						0317			
93	EXR09/ 23951						0344			
94	EXR10/ 23952						0411			
95	EXR08/ 23950						0438			
96	EXR11/ 23953						0506			
97	EXR07/ 23949						0532			
98	PIBLK41		Std				0559			
99	PST SPKA						0626			# 2
100	PST SPKB						0653			
101	PST SPKBDUP						0720			
102	PST SPKC						0747			
103	PIBLK08						0814			
104	PEM05						0920			
105										
106										
107										
108										
109										
110										
111										
112										
113										
114										
115										
116										
117							12-02-93	DB		
118										
119										
120										

Analysis Code Definitions: A = Analysis B = Re-analysis for dilution C = Carry-over blank

Original run log, external standard tables (with chromatograms for initial calibration, continuing calibration and instrument blanks) are with Case/SAS #: 21268 21141 SDG #: YN452 DFR54

CLPPCBLO.for 10/26/93

EPA-CLP SAMPLE REQUEST FORM

ENCOTEC

CASE #: 2170 SAS #: — DATE/TIME REQUESTED: 11-11-93 / 7:00

SDG #: EXQ02 CLIENT: EPA

ANALYST: Kurt LABORATORY: Organic Ext.

CLIENT SAMPLE ID	ENCOTEC NUMBER	MATRIX	PARAMETER	PRESER-VATION	BOTTLE TYPE	LOC.	DATE/TIME REMOVED	INTLS	DATE/TIME RETURNED	INTLS
EXQ02	23944	Soil	608/625	None	250ml	WI	11-11-93 7:00	KH	11-11-93 8:30	KH
EXQ03	23945									
EXQ04	23946									
EXQ05	23947									
EXQ06	23948									
EXQ07	23949									
EXQ08	23950									
EXQ09	23951									
EXQ10	23952									
EXQ11	23953									

CLPSMPRQ.FOR 08/03/92

12/03/93

EPA-CLP SAMPLE REQUEST FORM

ENCOTEC

CASE #: 21170 SAS #: — DATE/TIME REQUESTED: 11/08/93 15:30

SDG #: EXQ 02 CLIENT: EPA RAS

ANALYST: SGS LABORATORY: CLP O.E.

CLIENT SAMPLE ID	ENCOTEC NUMBER	MATRIX	PARAMETER	PRESER-VATION	BOTTLE TYPE	LOC.	DATE/TIME REMOVED	INITLS	DATE/TIME RETURNED	INITLS
EXQ12	23955	H_2O	625	N	4L 2L amber	R#1	11/08/93 15:30	SGS	11/08/93 16:30	SGS
									SGS 11/08/93	

CLPSMPRQ.FOR 08/03/92

EPA-CLP SAMPLE REQUEST FORM

ENCOTEC

CASE #: 21170 SAS #: — DATE/TIME REQUESTED: 11/05/93 1600

SDG #: EXQ02 CLIENT: ERA

ANALYST: DT Mach LABORATORY: CLP Ext.

CLIENT SAMPLE ID	ENCOTEC NUMBER	MATRIX	PARAMETER	PRESER-VATION	BOTTLE TYPE	LOC.	DATE/TIME REMOVED	INITLS	DATE/TIME RETURNED	INITLS
EXQ12	23955	H2O	608	—	2LA	R#1	11/05/93 1600	DM	11/5/93 1610	DM

DM 11/5/93

CLPSMPRQ.FOR 08/03/92

1855

++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-07-1993 10:26:10 Version 5.1 **********

* Sample Name: MECL2 Data File: 0:211701 *

* Date: 11-12-1993 14:09:13 Method: 0:BNAB 12-04-1993 14:15:01 # 71 *

* Interface: 6 Cycle#: 1 Operator DJB Channel#: 0 Vial#: N.A. *

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

****

* Instrument Type: 3700-2 BPC Column Type: RTX5,30m*.32mm,.25um *

* Solvent Description: HE HOLDUP 150sec @ 40c *

* Conditions: 40H5to300@15/mH18 I=250 D=330 *

* Detector 0: Detector 1: FID ATT4R1 *

* Misc. Information: 2uL SPLT=16 CID=5799B *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 1000 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

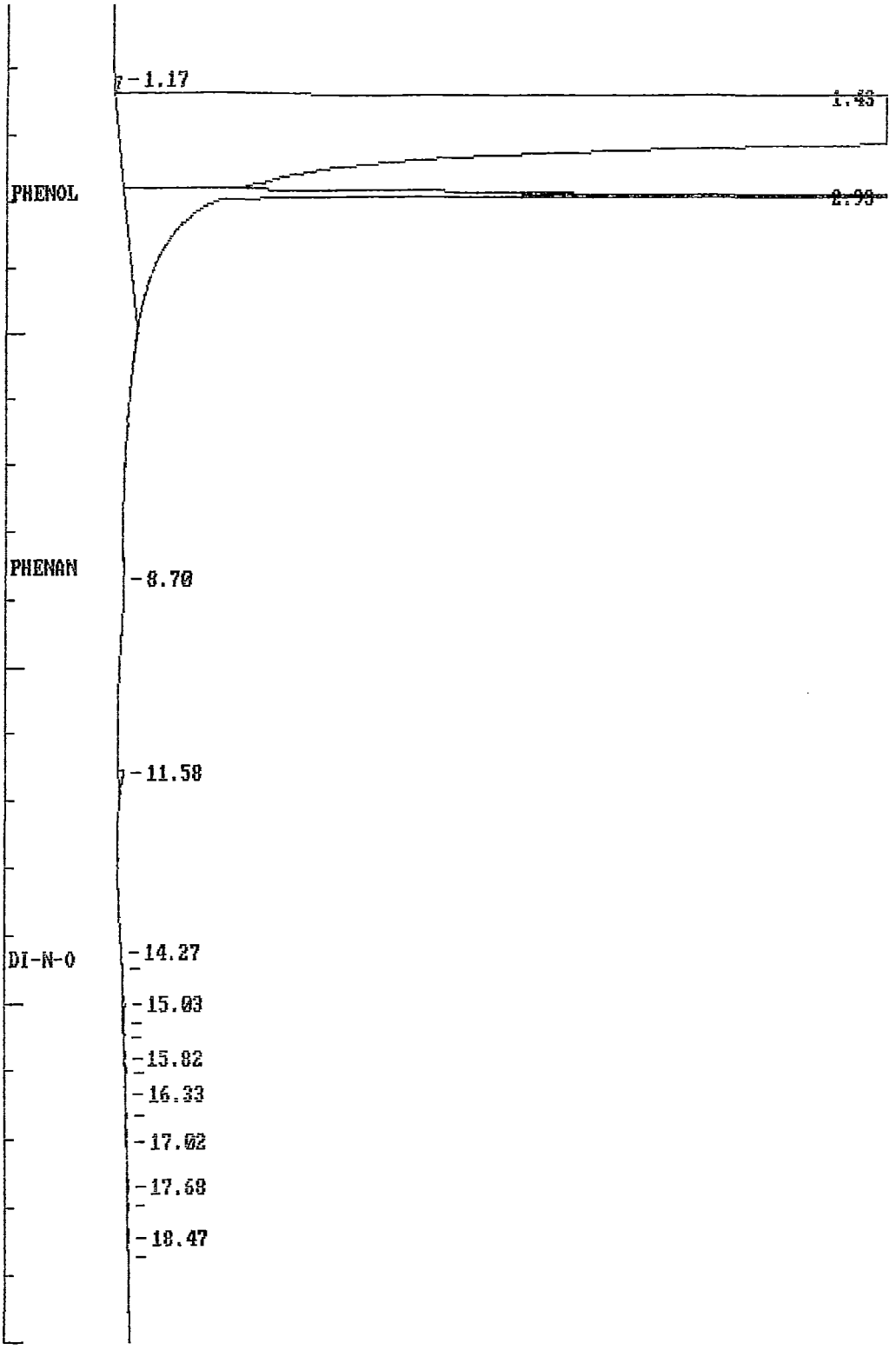
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in NG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	1.167		0.7630	0.0196%	7630	957	8.0	1			1.0000E-04
2	1.433		3692.3291	94.6570%	36923292	994653	37.1	OV			1.0000E-04
3	2.933		202.7556	5.1979%	2027556	661328	3.1	2			1.0000E-04
4	8.700		0.3520	0.0090%	3521	140	25.2	1			1.0000E-04
5	11.583		1.2994	0.0333%	12994	915	14.2	1			1.0000E-04
9	14.267		0.1495	0.0038%	1495	144	10.4	1			1.0000E-04
10	14.500		0.2019	0.0052%	2019	246	8.2	1			1.0000E-04
11	15.033		0.3391	0.0087%	3391	348	9.8	2			1.0000E-04
12	15.283		0.1658	0.0043%	1658	200	8.3	2			1.0000E-04
13	15.500		0.1765	0.0045%	1765	227	7.8	1			1.0000E-04
14	15.817		0.2098	0.0054%	2098	214	9.8	2			1.0000E-04
15	16.017		0.4067	0.0104%	4067	377	10.8	2			1.0000E-04
16	16.333		0.2220	0.0057%	2220	221	10.0	2			1.0000E-04
17	16.650		0.2271	0.0058%	2271	237	9.6	2			1.0000E-04
18	17.017		0.2035	0.0052%	2035	162	12.6	2			1.0000E-04
19	17.683		0.3312	0.0085%	3312	266	12.5	2			1.0000E-04
20	17.983		0.2227	0.0057%	2227	226	9.9	2			1.0000E-04
21	18.467		0.2661	0.0068%	2661	253	10.5	1			1.0000E-04
22	18.717		0.1271	0.0033%	1271	152	8.4	1			1.0000E-04

TOTAL AMOUNT = 3900.7478

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
PHENOL	2.85	PHENOL
PHENANTHRENE	8.53	PHENANTHRENE
DI-N-OCTYL-PHT	14.35	DI-N-OCTYL-PHT

Areas, times, and heights stored in: 0:211701.ATB
Data File = 0:211701.PTS Printed on 12-07-1993 at 10:26:20
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 115 millivolts



++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-07-1993 10:27:23 Version 5.1 **********

* Sample Name: BNA STD Data File: 0:211702 *
* Date: 11-12-1993 14:40:26 Method: 0:BNAB 12-04-1993 14:15:01 # 71 *
* Interface: 6 Cycle#: 2 Operator DJB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: 3700-2 BPC Column Type: RTX5,30m*.32mm,.25um *
* Solvent Description: HE HOLDUP 150sec @ 40c *
* Conditions: 40H5to300@15/mH18 I=250 D=330 *
* Detector 0: Detector 1: FID ATT4R1 *
* Misc. Information: 2uL SPLT=16 CID=5799B *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 1000 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

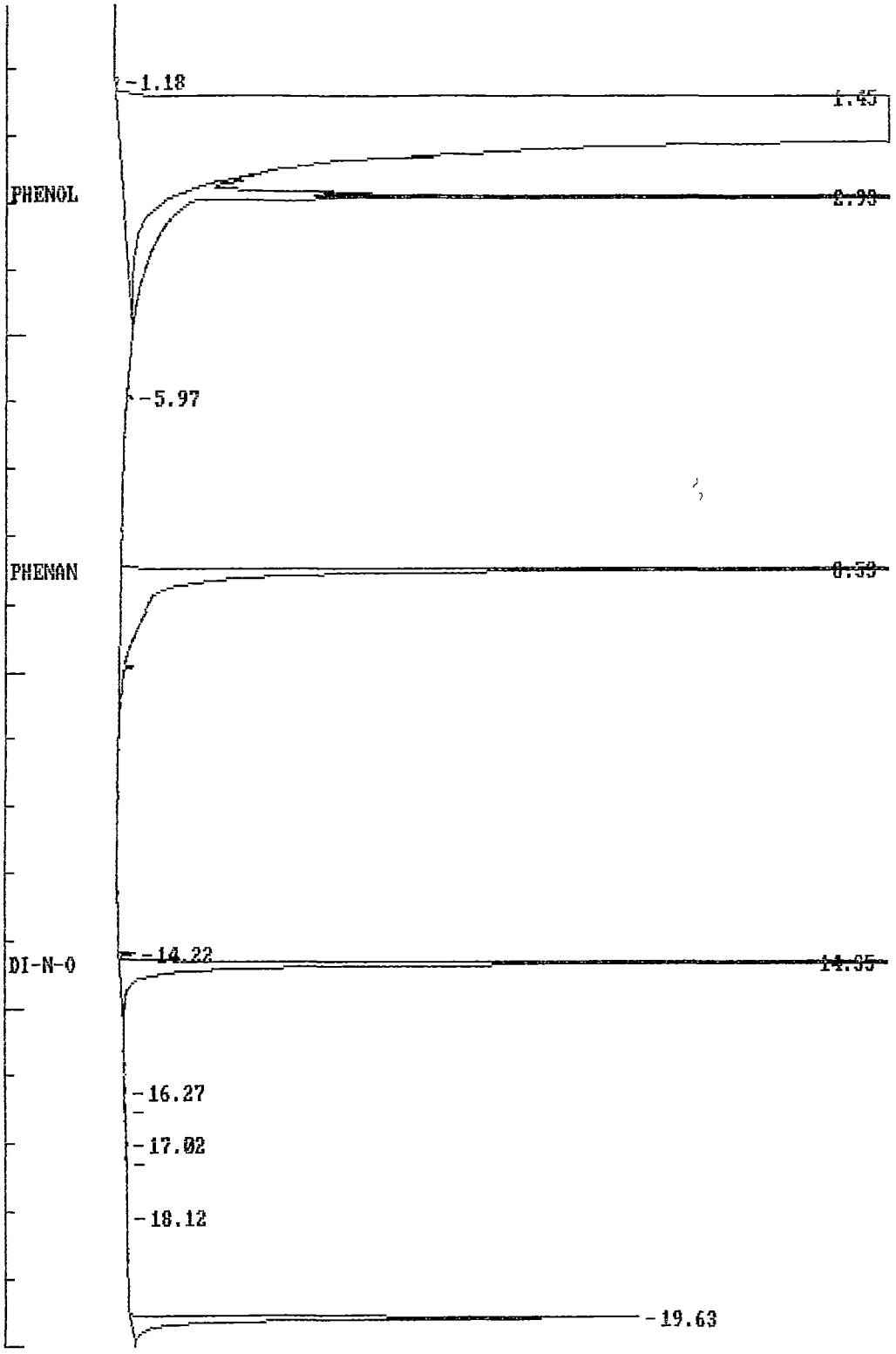
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in NG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	1.183		0.3339	0.0087%	3339	571	5.8	2			1.0000E-04
2	1.450		3445.3604	89.7998%	34453604	994467	34.6	OV			1.0000E-04
3	2.933		130.1854	3.3932%	1301854	411509	3.2	4			1.0000E-04
4	5.967		0.2252	0.0059%	2253	784	2.9	1			1.0000E-04
5	8.533	PHENANTHRENE	104.0648	2.7123%	830773	157205	5.3	2	0	0	1.2526E-04
10	14.217		0.5681	0.0148%	5681	2273	2.5	2			1.0000E-04
11	14.350	DI-N-OCTYL-PHT	124.4339	3.2432%	665410	203078	3.3	3	0	0	1.8700E-04
14	16.267		0.1535	0.0040%	1535	213	7.2	1			1.0000E-04
15	16.533		0.2058	0.0054%	2058	202	10.2	2			1.0000E-04
17	17.017		0.1150	0.0030%	1150	134	8.6	2			1.0000E-04
18	17.300		0.1614	0.0042%	1614	177	9.1	1			1.0000E-04
19	18.117		0.1096	0.0029%	1096	123	8.9	1			1.0000E-04
22	19.633		30.7942	0.8026%	307942	71790	4.3	1			1.0000E-04

TOTAL AMOUNT = 3836.7109

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
PHENOL	2.85	PHENOL

Areas, times, and heights stored in: 0:211702.ATB
Data File = 0:211702.PTS Printed on 12-07-1993 at 10:27:35
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 115 millivolts



++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-07-1993 10:28:45 Version 5.1 **********

* Sample Name: 23944 Data File: 0:211703 *
* Date: 11-12-1993 15:11:39 Method: 0:BNAB 12-04-1993 14:15:01 # 71 *
* Interface: 6 Cycle#: 3 Operator DJB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: 3700-2 BPC Column Type: RTX5,30m*.32mm,.25um *
* Solvent Description: HE HOLDUP 150sec @ 40c *
* Conditions: 40H5to300@15/mH18 I=250 D=330 *
* Detector 0: Detector 1: FID ATT4R1 *
* Misc. Information: 2uL SPLT=16 CID=5799B *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 1000 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

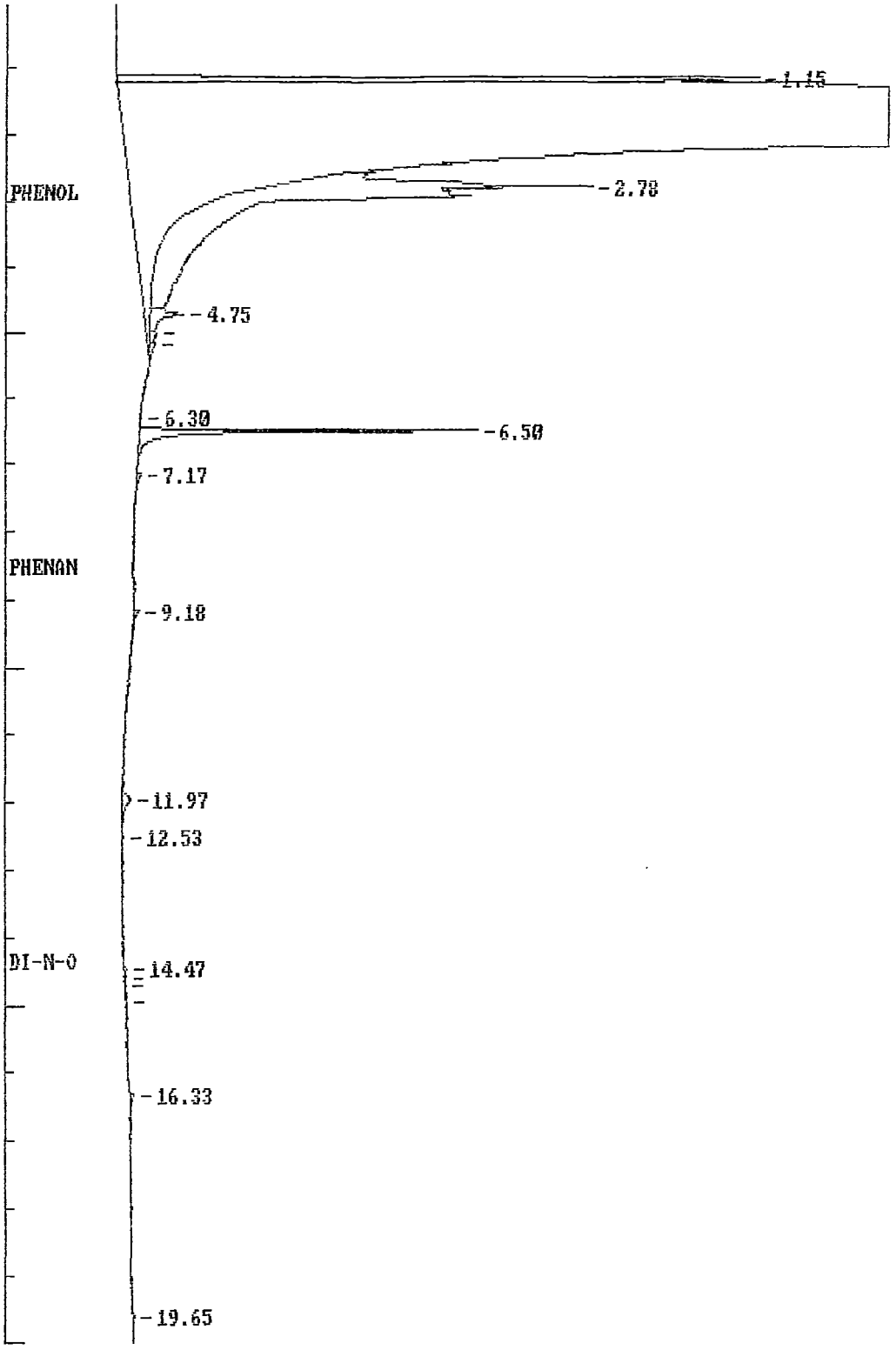
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in NG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	1.150		30.1323	0.6352%	301323	91181	3.3	2			1.0000E-04
2	1.317		4580.4272	96.5626%	45804272	994433	46.1	OV			1.0000E-04
3	2.783		107.3638	2.2634%	1073638	46798	22.9	4			1.0000E-04
4	4.750		4.0303	0.0850%	40303	4696	8.6	4			1.0000E-04
5	5.033		0.8568	0.0181%	8568	935	9.2	4			1.0000E-04
6	5.200		0.7175	0.0151%	7175	786	9.1	4			1.0000E-04
7	6.300		0.1016	0.0021%	1016	206	4.9	1			1.0000E-04
8	6.500		15.8506	0.3342%	158506	47902	3.3	1			1.0000E-04
9	7.167		0.3425	0.0072%	3426	571	6.0	1			1.0000E-04
13	9.183		0.7472	0.0158%	7472	749	10.0	1			1.0000E-04
15	11.967		1.5826	0.0334%	15826	1161	13.6	2			1.0000E-04
16	12.533		0.1237	0.0026%	1237	281	4.4	2			1.0000E-04
26	14.467		0.2130	0.0045%	2130	435	4.9	2			1.0000E-04
27	14.600		0.1332	0.0028%	1332	289	4.6	2			1.0000E-04
28	14.717		0.1161	0.0024%	1161	213	5.5	2			1.0000E-04
29	14.950		0.1960	0.0041%	1960	225	8.7	2			1.0000E-04
35	16.333		0.3433	0.0072%	3433	641	5.4	1			1.0000E-04
41	19.650		0.1999	0.0042%	1999	277	7.2	1			1.0000E-04

TOTAL AMOUNT = 4743.4775

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
PHENOL	2.85	PHENOL
PHENANTHRENE	8.53	PHENANTHRENE
DI-N-OCTYL-PHT	14.35	DI-N-OCTYL-PHT

Areas, times, and heights stored in: 0:211703.ATB
Data File = 0:211703.PTS Printed on 12-07-1993 at 10:29:00
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 115 millivolts



++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-07-1993 10:30:10 Version 5.1 **********

* Sample Name: 23947 Data File: O:211704 *
* Date: 11-12-1993 15:42:53 Method: O:BNAB 12-04-1993 14:15:01 # 71 *
* Interface: 6 Cycle#: 4 Operator DJB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: 3700-2 BPC Column Type: RTX5,30m*.32mm,.25um *
* Solvent Description: HE HOLDUP 150sec @ 40c *
* Conditions: 40H5to300@15/mH18 I=250 D=330 *
* Detector 0: Detector 1: FID ATT4R1 *
* Misc. Information: 2uL SPLT=16 CID=5799B *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 1000 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

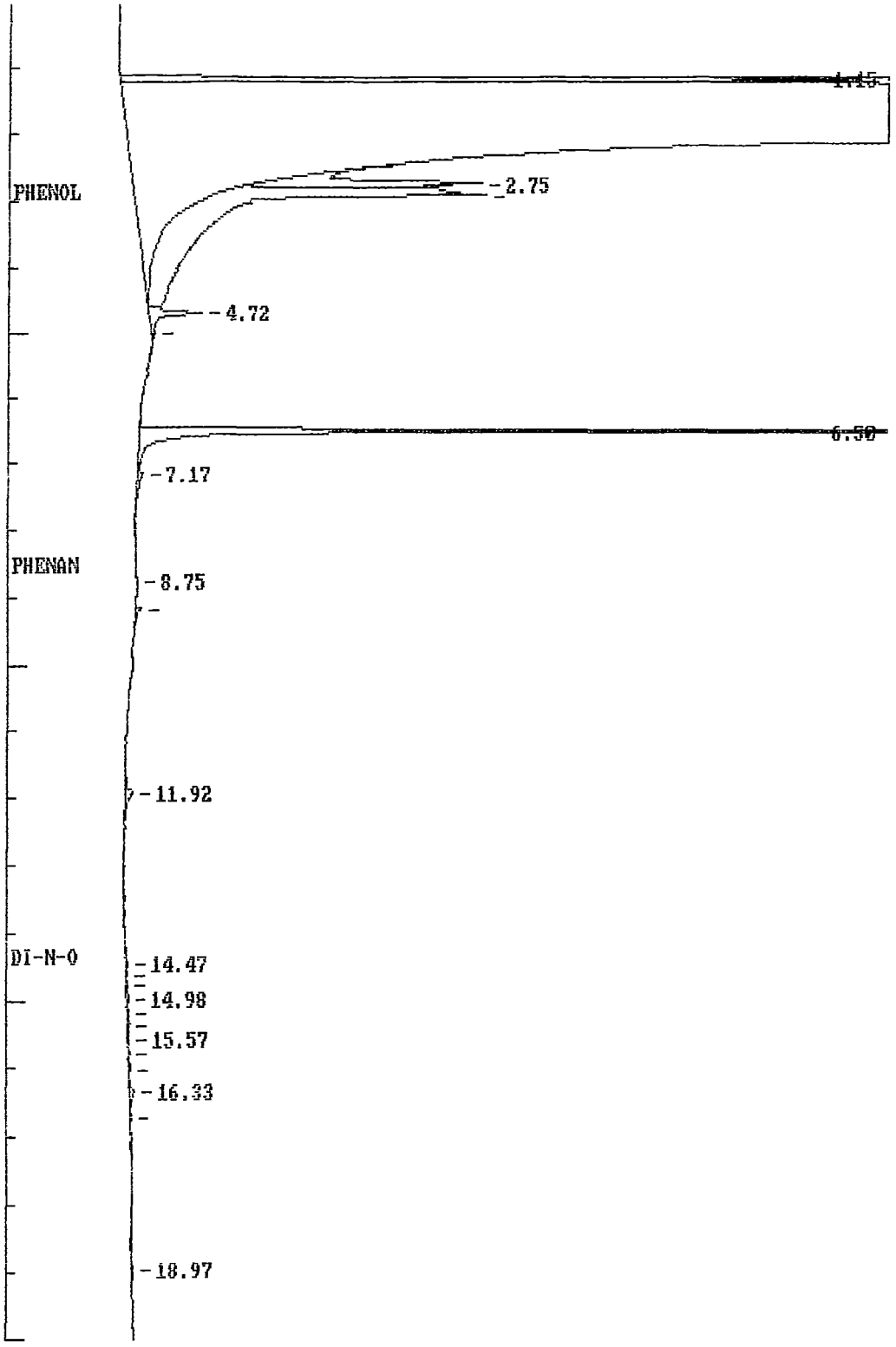
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in NG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	1.150		44.0394	0.9610%	440394	114096	3.9	2			1.0000E-04
2	1.317		4365.6226	95.2621%	43656228	994313	43.9	OV			1.0000E-04
3	2.750		16.7868	0.3663%	167868	32387	5.2	4			1.0000E-04
4	2.917		83.4366	1.8207%	834366	38783	21.5	4			1.0000E-04
5	4.717		5.0686	0.1106%	50686	7505	6.8	3			1.0000E-04
6	5.033		0.1642	0.0036%	1642	314	5.2	4			1.0000E-04
8	6.500		60.6412	1.3232%	606412	211915	2.9	2			1.0000E-04
9	7.167		1.0852	0.0237%	10852	854	12.7	2			1.0000E-04
11	8.750		0.1840	0.0040%	1841	231	8.0	1			1.0000E-04
12	9.183		0.5047	0.0110%	5047	788	6.4	1			1.0000E-04
14	11.917		1.4659	0.0320%	14659	1145	12.8	1			1.0000E-04
20	14.467		0.2351	0.0051%	2351	324	7.3	2			1.0000E-04
21	14.633		0.2181	0.0048%	2181	327	6.7	2			1.0000E-04
22	14.767		0.1593	0.0035%	1593	312	5.1	2			1.0000E-04
23	14.983		0.4022	0.0088%	4022	333	12.1	2			1.0000E-04
24	15.183		0.2784	0.0061%	2784	296	9.4	2			1.0000E-04
25	15.350		0.3133	0.0068%	3133	381	8.2	2			1.0000E-04
26	15.567		0.2141	0.0047%	2141	217	9.9	2			1.0000E-04
27	15.783		0.1797	0.0039%	1797	255	7.0	2			1.0000E-04
28	16.017		0.2633	0.0057%	2633	275	9.6	2			1.0000E-04
29	16.333		1.0486	0.0229%	10486	855	12.3	2			1.0000E-04
30	16.733		0.2340	0.0051%	2340	232	10.1	2			1.0000E-04
36	18.967		0.2066	0.0045%	2066	283	7.3	2			1.0000E-04

TOTAL AMOUNT = 4582.7510

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
PHENOL	2.85	PHENOL
PHENANTHRENE	8.53	PHENANTHRENE
DI-N-OCTYL-PHT	14.35	DI-N-OCTYL-PHT

Areas, times, and heights stored in: 0:211704.ATB
Data File = 0:211704.PTS Printed on 12-07-1993 at 10:30:33
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 115 millivolts



++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-07-1993 10:31:45 Version 5.1 **********

* Sample Name: 23946 Data File: 0:211705 *
* Date: 11-12-1993 16:14:06 Method: 0:BNAB 12-04-1993 14:15:01 # 71 *
* Interface: 6 Cycle#: 5 Operator DJB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: 3700-2 BPC Column Type: RTX5,30m*.32mm,.25um *
* Solvent Description: HE HOLDUP 150sec @ 40c *
* Conditions: 40H5to300@15/mH18 I=250 D=330 *
* Detector 0: Detector 1: FID ATT4R1 *
* Misc. Information: 2uL SPLT=16 CID=5799B *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 1000 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

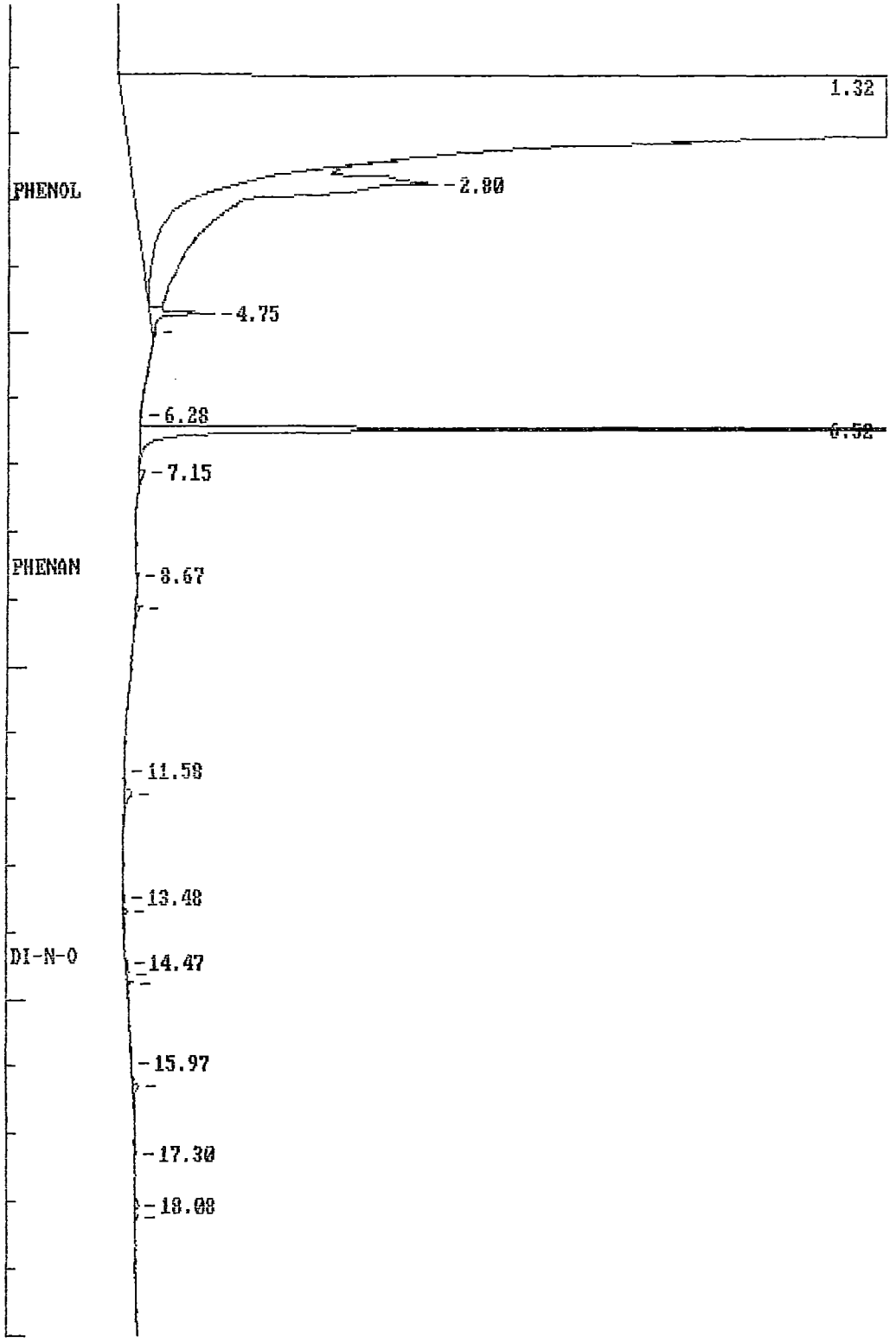
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in NG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	1.317		4526.6753	96.2913%	45266752	994289	45.5	OV			1.0000E-04
2	2.800		91.7285	1.9512%	917285	29309	31.3	4			1.0000E-04
3	4.750		5.1721	0.1100%	51721	9185	5.6	3			1.0000E-04
4	5.033		0.1729	0.0037%	1729	301	5.7	4			1.0000E-04
6	6.283		0.1020	0.0022%	1020	188	5.4	1			1.0000E-04
7	6.517		70.9538	1.5093%	709538	234580	3.0	2			1.0000E-04
8	7.150		0.9713	0.0207%	9713	916	10.6	2			1.0000E-04
11	8.667		0.1079	0.0023%	1079	239	4.5	1			1.0000E-04
12	9.133		0.6102	0.0130%	6102	947	6.4	1			1.0000E-04
13	11.583		0.1570	0.0033%	1570	186	8.5	2			1.0000E-04
14	11.917		1.7086	0.0363%	17086	1197	14.3	2			1.0000E-04
16	13.483		0.1277	0.0027%	1277	226	5.7	2			1.0000E-04
17	13.700		0.2217	0.0047%	2217	490	4.5	2			1.0000E-04
20	14.467		0.1461	0.0031%	1461	269	5.4	2			1.0000E-04
21	14.633		0.1377	0.0029%	1377	389	3.5	2			1.0000E-04
22	14.767		0.2142	0.0046%	2142	847	2.5	2			1.0000E-04
26	15.967		0.2527	0.0054%	2527	180	14.0	2			1.0000E-04
27	16.317		0.9079	0.0193%	9079	986	9.2	2			1.0000E-04
29	17.300		0.1727	0.0037%	1727	267	6.5	1			1.0000E-04
30	18.083		0.2892	0.0062%	2892	459	6.3	2			1.0000E-04
31	18.233		0.1944	0.0041%	1944	448	4.3	2			1.0000E-04

TOTAL AMOUNT = 4701.0244

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
PHENOL	2.85	PHENOL
PHENANTHRENE	8.53	PHENANTHRENE
DI-N-OCTYL-PHT	14.35	DI-N-OCTYL-PHT

Areas, times, and heights stored in: 0:211705.ATB
Data File = 0:211705.PTS Printed on 12-07-1993 at 10:32:04
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 115 millivolts



++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-07-1993 10:33:16 Version 5.1 **********

* Sample Name: 23951 Data File: 0:211706 *

* Date: 11-12-1993 16:45:19 Method: 0:BNAB 12-04-1993 14:15:01 # 71 *

* Interface: 6 Cycle#: 6 Operator DJB Channel#: 0 Vial#: N.A. *

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

****

* Instrument Type: 3700-2 BPC Column Type: RTX5,30m*.32mm,.25um *

* Solvent Description: HE HOLDUP 150sec @ 40c *

* Conditions: 40H5to300@15/mH18 I=250 D=330 *

* Detector 0: Detector 1: FID ATT4R1 *

* Misc. Information: 2uL SPLT=16 CID=5799B *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 1000 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

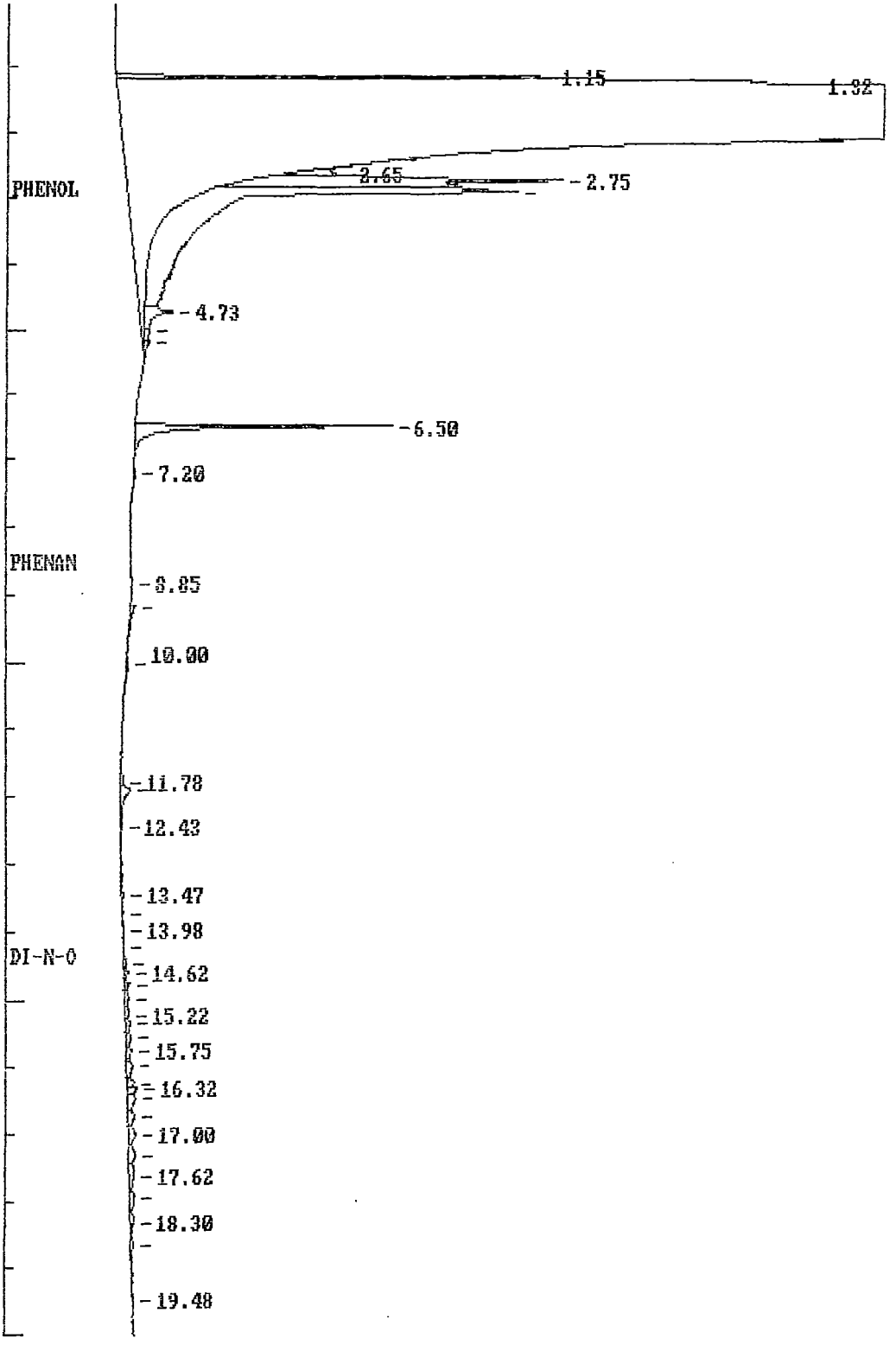
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in NG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	1.150		14.5372	0.3188%	145372	60276	2.4	2			1.0000E-04
2	1.317		4391.0933	96.2815%	43910936	994336	44.2	OV			1.0000E-04
3	2.650		3.6985	0.0811%	36985	8866	4.2	4			1.0000E-04
4	2.750		32.1300	0.7045%	321300	45978	7.0	4			1.0000E-04
5	2.917		80.1260	1.7569%	801260	44919	17.8	4			1.0000E-04
6	4.733		3.5731	0.0783%	35731	3831	9.3	4			1.0000E-04
7	5.033		0.7462	0.0164%	7462	844	8.8	4			1.0000E-04
8	5.200		0.6225	0.0136%	6225	696	8.9	4			1.0000E-04
9	6.500		12.9590	0.2841%	129590	36613	3.5	1			1.0000E-04
10	7.200		0.3909	0.0086%	3910	383	10.2	1			1.0000E-04
12	8.850		0.2928	0.0064%	2928	220	13.3	1			1.0000E-04
13	9.167		0.6933	0.0152%	6933	701	9.9	1			1.0000E-04
14	10.000		0.4317	0.0095%	4317	251	17.2	1			1.0000E-04
15	11.783		0.3336	0.0073%	3336	442	7.6	2			1.0000E-04
16	11.900		1.6676	0.0366%	16676	1419	11.7	3			1.0000E-04
17	12.433		0.1122	0.0025%	1122	126	8.9	4			1.0000E-04
20	13.467		0.1692	0.0037%	1693	319	5.3	1			1.0000E-04
21	13.717		0.1446	0.0032%	1446	247	5.9	2			1.0000E-04
22	13.983		0.1515	0.0033%	1515	254	6.0	2			1.0000E-04
23	14.233		0.2055	0.0045%	2055	184	11.2	2			1.0000E-04
24	14.450		0.3819	0.0084%	3819	498	7.7	2			1.0000E-04
25	14.617		0.4688	0.0103%	4688	862	5.4	2			1.0000E-04
26	14.767		0.5554	0.0122%	5554	908	6.1	2			1.0000E-04
27	14.967		0.8138	0.0178%	8138	683	11.9	2			1.0000E-04
28	15.217		0.5666	0.0124%	5666	608	9.3	2			1.0000E-04
29	15.333		0.7994	0.0175%	7994	744	10.7	2			1.0000E-04
30	15.550		0.7146	0.0157%	7146	735	9.7	2			1.0000E-04
31	15.750		0.7285	0.0160%	7285	863	8.4	2			1.0000E-04
32	15.967		1.0667	0.0234%	10667	935	11.4	2			1.0000E-04
33	16.217		0.7996	0.0175%	7996	1042	7.7	2			1.0000E-04
34	16.317		0.9475	0.0208%	9475	1470	6.4	2			1.0000E-04
35	16.450		1.3143	0.0288%	13143	1184	11.1	2			1.0000E-04
36	16.733		1.1985	0.0263%	11985	993	12.1	2			1.0000E-04
37	17.000		1.3778	0.0302%	13778	1014	13.6	2			1.0000E-04
38	17.317		1.2376	0.0271%	12376	964	12.8	2			1.0000E-04
39	17.617		1.4186	0.0311%	14186	742	19.1	2			1.0000E-04
40	17.917		0.9890	0.0217%	9890	701	14.1	2			1.0000E-04
41	18.300		0.6555	0.0144%	6555	475	13.8	2			1.0000E-04
42	18.650		0.4568	0.0100%	4568	356	12.8	2			1.0000E-04
44	19.483		0.1118	0.0025%	1118	192	5.8	1			1.0000E-04

1866

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
PHENOL	2.85	PHENOL
PHENANTHRENE	8.53	PHENANTHRENE
DI-N-OCTYL-PHT	14.35	DI-N-OCTYL-PHT

Areas, times, and heights stored in: 0:211706.ATB
Data File = 0:211706.PTS Printed on 12-07-1993 at 10:33:58
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 115 millivolts



++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-07-1993 10:35:14 Version 5.1 **********

* Sample Name: 23952 Data File: 0:211707 *

* Date: 11-12-1993 17:16:39 Method: 0:BNAB 12-04-1993 14:15:01 # 71 *

* Interface: 6 Cycle#: 7 Operator DJB Channel#: 0 Vial#: N.A. *

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

****

* Instrument Type: 3700-2 BPC Column Type: RTX5,30m*.32mm,.25um *

* Solvent Description: HE HOLDUP 150sec @ 40c *

* Conditions: 40H5to300@15/mH18 I=250 D=330 *

* Detector 0: Detector 1: FID ATT4R1 *

* Misc. Information: 2uL SPLT=16 CID=5799B *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 1000 One sample per 1.000 sec.

Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

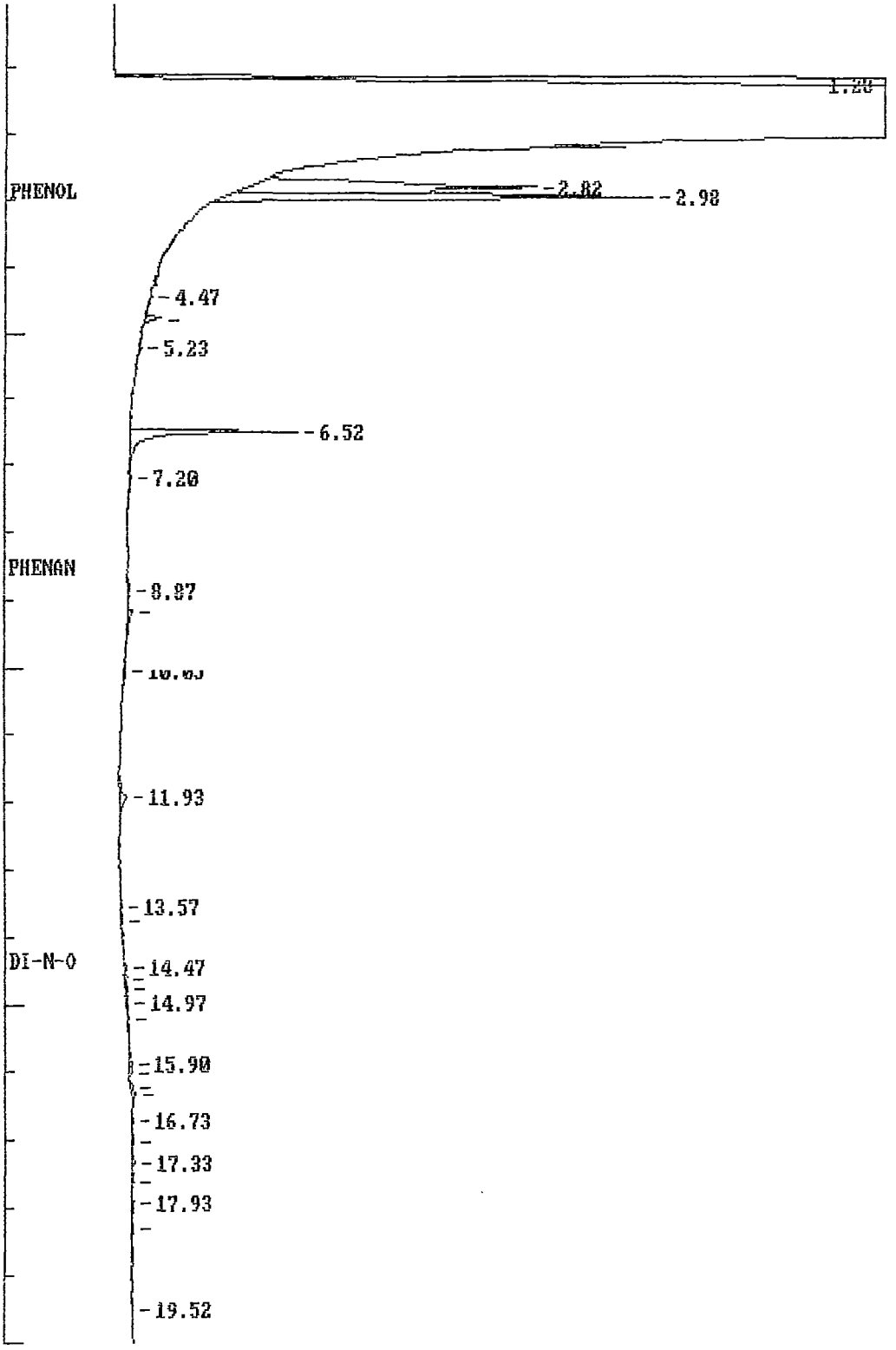
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in NG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	1.283		45.2189	34.1192%	452189	0	0.0	1			1.0000E-04
2	2.817		29.2697	22.0850%	292697	41079	7.1	2			1.0000E-04
3	2.983		38.9690	29.4035%	389690	61119	6.4	2			1.0000E-04
4	4.467		0.1913	0.1443%	1913	288	6.6	2			1.0000E-04
5	4.800		1.0550	0.7960%	10550	2379	4.4	2			1.0000E-04
6	5.233		0.1244	0.0939%	1244	282	4.4	1			1.0000E-04
8	6.517		10.0814	7.6068%	100814	23760	4.2	2			1.0000E-04
9	7.200		0.5498	0.4149%	5498	367	15.0	2			1.0000E-04
12	8.867		0.1181	0.0891%	1181	108	10.9	1			1.0000E-04
13	9.200		0.7616	0.5747%	7616	634	12.0	1			1.0000E-04
14	10.050		0.2714	0.2048%	2714	170	15.9	1			1.0000E-04
15	11.933		1.4163	1.0686%	14163	1030	13.8	1			1.0000E-04
17	13.567		0.1354	0.1022%	1354	170	7.9	2			1.0000E-04
18	13.767		0.1169	0.0882%	1169	140	8.4	2			1.0000E-04
21	14.467		0.2847	0.2148%	2847	417	6.8	2			1.0000E-04
22	14.633		0.2252	0.1699%	2252	397	5.7	2			1.0000E-04
23	14.767		0.2558	0.1930%	2558	362	7.1	2			1.0000E-04
24	14.967		0.2378	0.1795%	2378	320	7.4	2			1.0000E-04
25	15.233		0.1761	0.1329%	1761	326	5.4	2			1.0000E-04
28	15.900		0.1495	0.1128%	1496	348	4.3	2			1.0000E-04
29	16.017		0.2975	0.2244%	2975	415	7.2	2			1.0000E-04
30	16.233		0.2105	0.1588%	2105	397	5.3	2			1.0000E-04
31	16.333		0.2833	0.2138%	2833	528	5.4	2			1.0000E-04
32	16.733		0.1674	0.1263%	1674	215	7.8	2			1.0000E-04
33	17.033		0.2843	0.2145%	2843	288	9.9	2			1.0000E-04
34	17.333		0.3966	0.2993%	3966	431	9.2	2			1.0000E-04
35	17.633		0.4990	0.3765%	4990	377	13.2	2			1.0000E-04
36	17.933		0.4447	0.3356%	4447	379	11.7	2			1.0000E-04
37	18.300		0.2347	0.1771%	2347	245	9.6	1			1.0000E-04
40	19.517		0.1055	0.0796%	1055	116	9.1	2			1.0000E-04

TOTAL AMOUNT = 132.5320

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
PHENOL	2.85	PHENOL
PHENANTHRENE	8.53	PHENANTHRENE
DI-N-OCTYL-PHT	14.35	DI-N-OCTYL-PHT

Areas, times, and heights stored in: 0:211707.ATB
Data File = 0:211707.PTS Printed on 12-07-1993 at 10:35:44
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 115 millivolts



++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-07-1993 10:36:54 Version 5.1 **********

* Sample Name: 23950 Data File: 0:211708 *
* Date: 11-12-1993 17:47:52 Method: 0:BNAB 12-04-1993 14:15:01 # 71 *
* Interface: 6 Cycle#: 8 Operator DJB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: 3700-2 BPC Column Type: RTX5,30m*.32mm,.25um *
* Solvent Description: HE HOLDUP 150sec @ 40c *
* Conditions: 40H5to300@15/mH18 I=250 D=330 *
* Detector 0: Detector 1: FID ATT4R1 *
* Misc. Information: 2uL SPLT=16 CID=5799B *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 1000 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

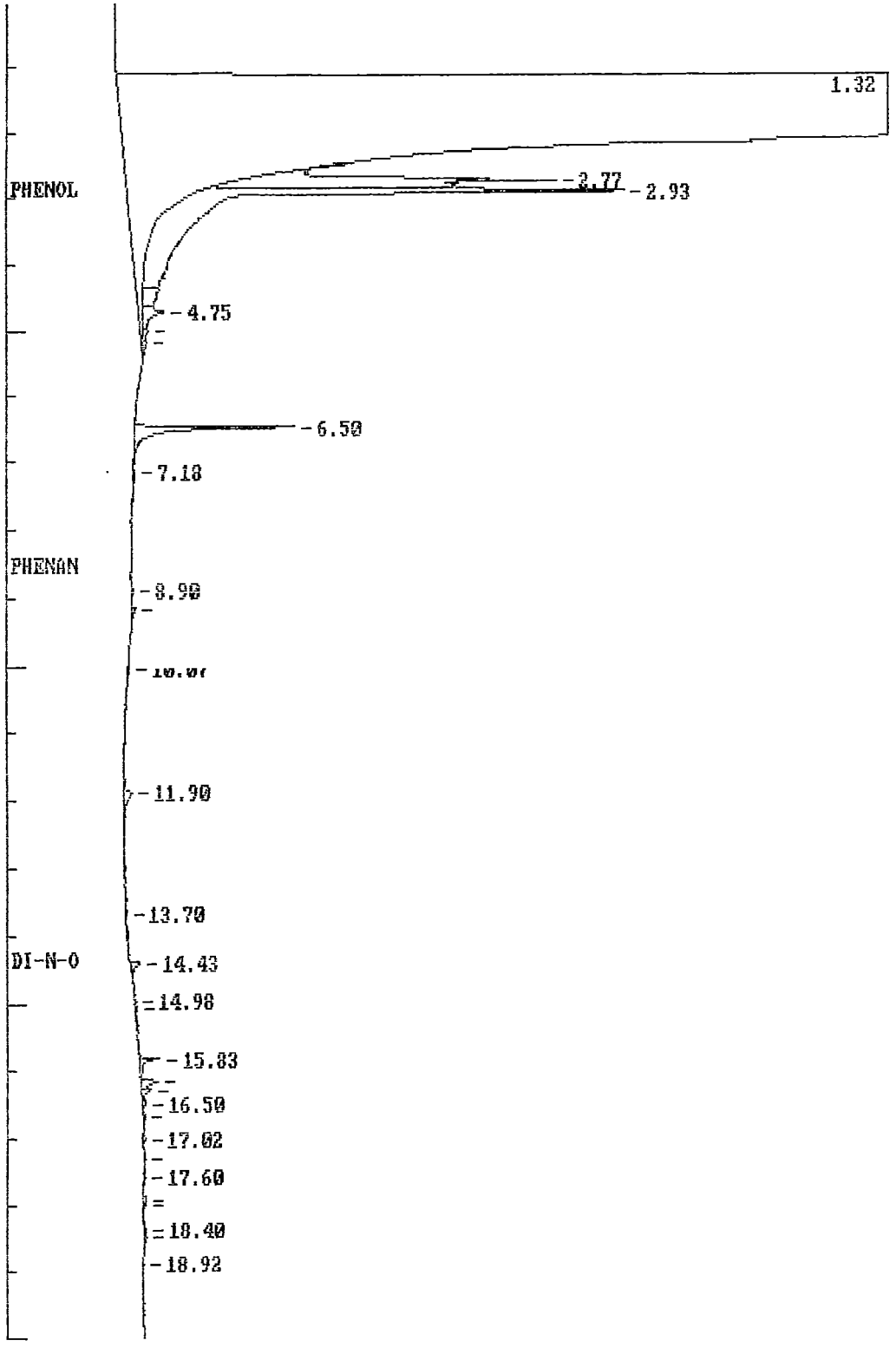
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in NG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	1.317		4485.1348	97.1323%	44851348	994391	45.1	DV			1.0000E-04
2	2.767		31.5490	0.6832%	315490	46105	6.8	4			1.0000E-04
3	2.933		77.0164	1.6679%	770164	60763	12.7	4			1.0000E-04
4	4.750		3.0001	0.0650%	30001	3075	9.8	4			1.0000E-04
5	5.033		0.6720	0.0146%	6720	776	8.7	4			1.0000E-04
6	5.200		0.5537	0.0120%	5537	597	9.3	4			1.0000E-04
8	6.500		9.5086	0.2059%	95086	22736	4.2	2			1.0000E-04
9	7.183		0.6040	0.0131%	6040	334	18.1	2			1.0000E-04
10	8.900		0.1741	0.0038%	1741	133	13.1	1			1.0000E-04
11	9.183		0.3390	0.0073%	3390	509	6.7	1			1.0000E-04
12	10.067		0.1887	0.0041%	1887	163	11.6	1			1.0000E-04
13	11.900		1.5731	0.0341%	15731	1121	14.0	3			1.0000E-04
19	13.700		0.1312	0.0028%	1312	152	8.6	2			1.0000E-04
22	14.433		0.8784	0.0190%	8784	1446	6.1	3			1.0000E-04
25	14.983		0.1409	0.0031%	1409	239	5.9	2			1.0000E-04
26	15.100		0.1973	0.0043%	1973	340	5.8	2			1.0000E-04
29	15.833		1.6021	0.0347%	16021	2928	5.5	2			1.0000E-04
30	16.167		1.1903	0.0258%	11903	2471	4.8	2			1.0000E-04
31	16.300		0.8224	0.0178%	8224	1330	6.2	2			1.0000E-04
32	16.500		0.2603	0.0056%	2604	439	5.9	2			1.0000E-04
33	16.683		0.1581	0.0034%	1581	220	7.2	1			1.0000E-04
34	17.017		0.1402	0.0030%	1402	330	4.2	1			1.0000E-04
35	17.317		0.2215	0.0048%	2215	221	10.0	2			1.0000E-04
36	17.600		0.2919	0.0063%	2919	293	10.0	2			1.0000E-04
37	17.933		0.3007	0.0065%	3008	477	6.3	2			1.0000E-04
38	18.000		0.2992	0.0065%	2992	533	5.6	2			1.0000E-04
39	18.400		0.2666	0.0058%	2666	320	8.3	2			1.0000E-04
40	18.500		0.2008	0.0043%	2008	369	5.4	2			1.0000E-04
41	18.917		0.1378	0.0030%	1378	126	10.9	1			1.0000E-04

TOTAL AMOUNT = 4617.5537

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
PHENOL	2.85	PHENOL
PHENANTHRENE	8.53	PHENANTHRENE
DI-N-OCTYL-PHT	14.35	DI-N-OCTYL-PHT

Areas, times, and heights stored in: 0:211708.ATB
Data File = 0:211708.PTS Printed on 12-07-1993 at 10:37:23
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 115 millivolts



++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-07-1993 10:38:35 Version 5.1 **********

* Sample Name: 23949 Data File: 0:211709 *

* Date: 11-12-1993 18:19:06 Method: 0:BNAB 12-04-1993 14:15:01 # 71 *

* Interface: 6 Cycle#: 9 Operator DJB Channel#: 0 Vial#: N.A. *

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

****

* Instrument Type: 3700-2 BPC Column Type: RTX5,30m*.32mm,.25um *

* Solvent Description: HE HOLDUP 150sec @ 40c *

* Conditions: 40H5to300@15/mH18 I=250 D=330 *

* Detector 0: Detector 1: FID ATT4R1 *

* Misc. Information: 2uL SPLT=16 CID=5799B *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 1000 One sample per 1.000 sec.

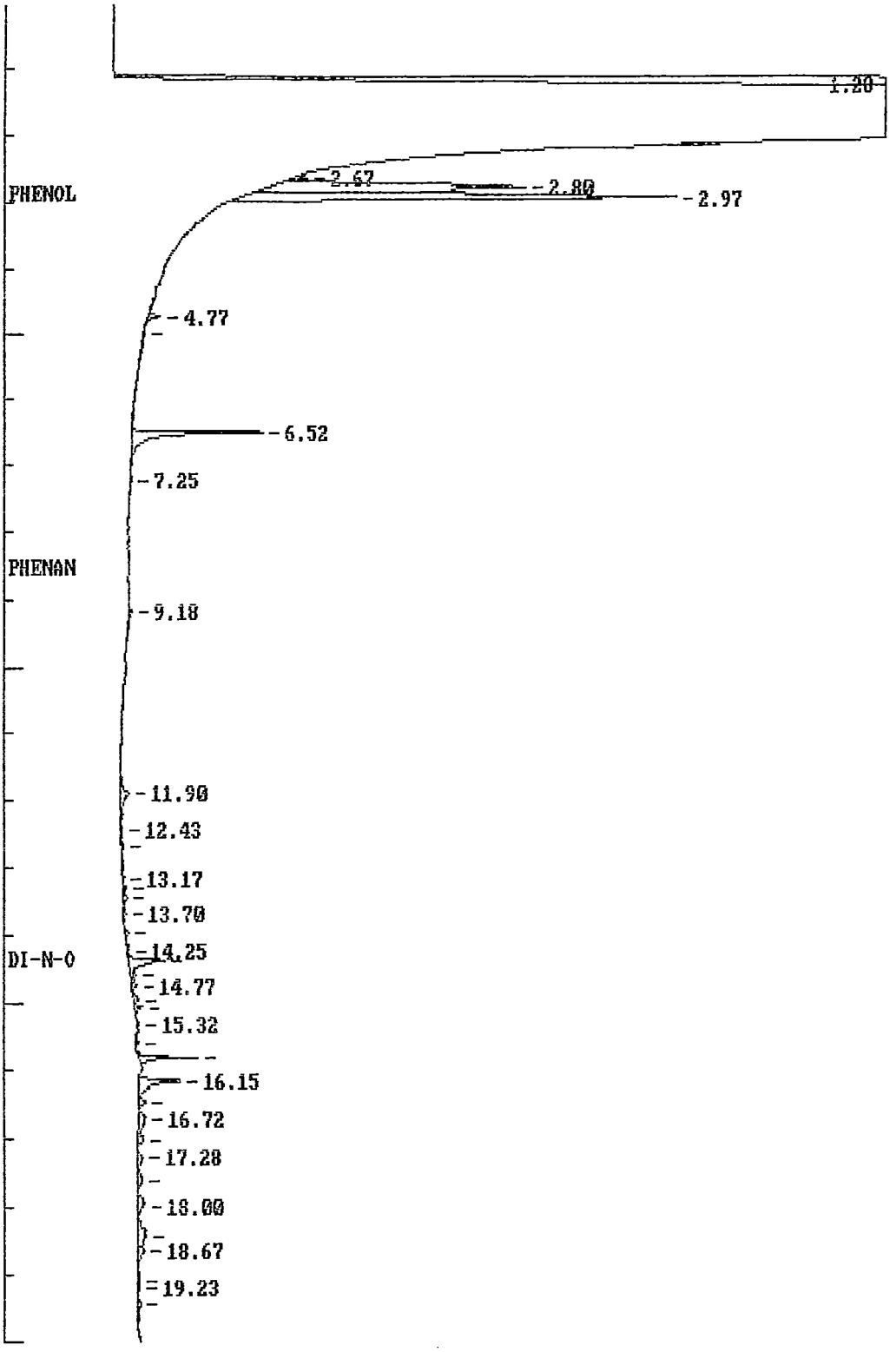
Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in NG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	1.283		46.7177	31.8443%	467177	-0%	-7474837.0	1			1.0000E-04
2	2.667		0.5525	0.3766%	5525	1969	2.8	2			1.0000E-04
3	2.800		25.0839	17.0980%	250839	36619	6.8	2			1.0000E-04
4	2.967		37.9321	25.8558%	379321	62016	6.1	2			1.0000E-04
6	4.767		0.8033	0.5476%	8033	1807	4.4	2			1.0000E-04
7	5.033		0.1309	0.0892%	1309	222	5.9	2			1.0000E-04
10	6.517		8.3904	5.7192%	83904	18368	4.6	2			1.0000E-04
11	7.250		0.2364	0.1611%	2364	190	12.4	2			1.0000E-04
13	9.183		0.6960	0.4744%	6960	427	16.3	1			1.0000E-04
14	11.900		1.3828	0.9426%	13828	1103	12.5	2			1.0000E-04
15	12.433		0.1174	0.0800%	1174	165	7.1	2			1.0000E-04
16	12.700		0.1612	0.1099%	1612	335	4.8	1			1.0000E-04
17	13.167		0.1422	0.0969%	1422	186	7.6	2			1.0000E-04
18	13.317		0.1996	0.1360%	1996	426	4.7	2			1.0000E-04
19	13.467		0.3588	0.2446%	3588	529	6.8	2			1.0000E-04
20	13.700		0.2923	0.1993%	2923	308	9.5	2			1.0000E-04
21	13.983		0.2958	0.2016%	2958	507	5.8	1			1.0000E-04
22	14.250		0.2198	0.1498%	2198	254	8.7	2			1.0000E-04
23	14.400	DI-N-OCTYL-PHT	6.0578	4.1292%	32394	5125	6.3	3	0	.3484	1.8700E-04
24	14.617		0.2774	0.1891%	2774	555	5.0	4			1.0000E-04
25	14.767		0.3156	0.2151%	3156	686	4.6	4			1.0000E-04
26	14.967		0.5355	0.3650%	5355	799	6.7	2			1.0000E-04
27	15.083		0.4994	0.3404%	4994	1185	4.2	2			1.0000E-04
28	15.317		0.1334	0.0909%	1334	328	4.1	1			1.0000E-04
29	15.600		0.1638	0.1117%	1638	399	4.1	1			1.0000E-04
30	15.817		2.7514	1.8754%	27514	8349	3.3	1			1.0000E-04
31	16.150		3.4358	2.3419%	34358	5795	5.9	2			1.0000E-04
32	16.483		0.6151	0.4193%	6151	957	6.4	2			1.0000E-04
33	16.717		1.2563	0.8563%	12563	995	12.6	2			1.0000E-04
34	17.017		0.6044	0.4120%	6044	775	7.8	2			1.0000E-04
35	17.283		0.5874	0.4004%	5874	661	8.9	2			1.0000E-04
36	17.617		0.6689	0.4560%	6689	655	10.2	2			1.0000E-04
37	18.000		1.1661	0.7948%	11661	966	12.1	2			1.0000E-04
38	18.450		1.9997	1.3631%	19997	1260	15.9	2			1.0000E-04
39	18.667		0.9688	0.6604%	9688	974	9.9	2			1.0000E-04
40	19.100		0.3401	0.2318%	3401	307	11.1	2			1.0000E-04
41	19.233		0.1405	0.0958%	1405	287	4.9	2			1.0000E-04
42	19.450		0.4762	0.3246%	4762	340	14.0	1			1.0000E-04

TOTAL AMOUNT = 146.7067

Areas, times, and heights stored in: 0:211709.ATB
Data File = 0:211709.PTS Printed on 12-07-1993 at 10:39:14
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 115 millivolts



++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-07-1993 10:40:31 Version 5.1 **********

* Sample Name: 23953 Data File: 0:2117010 *
* Date: 11-12-1993 18:50:19 Method: 0:BNAB 12-04-1993 14:15:01 # 71 *
* Interface: 6 Cycle#: 10 Operator DJB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: 3700-2 BPC Column Type: RTX5,30m*.32mm,.25um *
* Solvent Description: HE HOLDUP 150sec @ 40c *
* Conditions: 40H5to300@15/mH18 I=250 D=330 *
* Detector 0: Detector 1: FID ATT4R1 *
* Misc. Information: 2uL SPLT=16 CID=5799B *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 1000 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

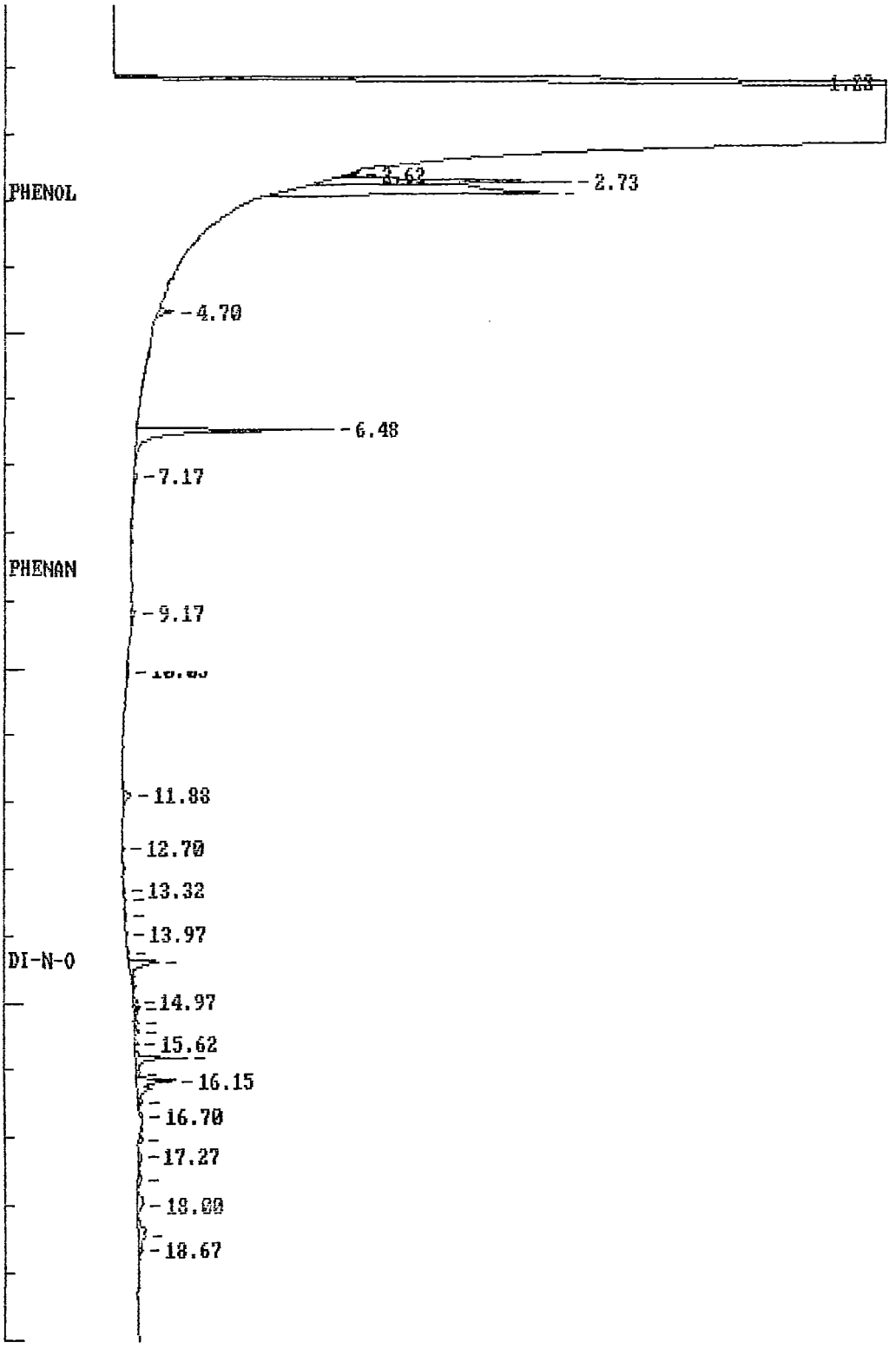
PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in NG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	1.217		30.3435	27.3119%	303436	49658	6.1	1			1.0000E-04
2	2.617		0.5328	0.4796%	5328	1474	3.6	2			1.0000E-04
3	2.733		13.2365	11.9140%	132365	35810	3.7	2			1.0000E-04
4	2.900		33.1459	29.8342%	331459	39791	8.3	2			1.0000E-04
5	4.700		0.9249	0.8325%	9249	2116	4.4	1			1.0000E-04
8	6.483		11.2032	10.0839%	112033	27882	4.0	1			1.0000E-04
9	7.167		0.4834	0.4351%	4834	380	12.7	1			1.0000E-04
12	9.167		0.3918	0.3527%	3918	575	6.8	1			1.0000E-04
13	10.033		0.3280	0.2952%	3280	243	13.5	1			1.0000E-04
15	11.883		1.1196	1.0077%	11196	1191	9.4	1			1.0000E-04
17	12.700		0.1667	0.1500%	1667	317	5.3	1			1.0000E-04
18	13.317		0.1509	0.1358%	1509	310	4.9	2			1.0000E-04
19	13.467		0.1673	0.1506%	1673	367	4.6	2			1.0000E-04
20	13.700		0.1854	0.1669%	1854	250	7.4	2			1.0000E-04
21	13.967		0.1394	0.1254%	1394	260	5.4	2			1.0000E-04
22	14.250		0.1910	0.1720%	1910	276	6.9	2			1.0000E-04
23	14.400	DI-N-OCTYL-PHT	4.9862	4.4880%	26664	4312	6.2	3	0	.3484	1.8700E-04
26	14.967		0.2491	0.2242%	2491	519	4.8	2			1.0000E-04
27	15.083		0.5187	0.4669%	5187	844	6.1	2			1.0000E-04
28	15.300		0.3078	0.2770%	3078	783	3.9	2			1.0000E-04
29	15.450		0.3829	0.3446%	3829	673	5.7	2			1.0000E-04
30	15.617		0.2125	0.1913%	2125	560	3.8	2			1.0000E-04
31	15.817		3.1670	2.8506%	31670	7257	4.4	3			1.0000E-04
32	16.050		0.2202	0.1982%	2202	501	4.4	4			1.0000E-04
33	16.150		3.5820	3.2241%	35820	5417	6.6	3			1.0000E-04
34	16.467		0.2614	0.2352%	2614	465	5.6	4			1.0000E-04
35	16.700		0.1483	0.1335%	1483	217	6.8	1			1.0000E-04
37	17.033		0.3087	0.2779%	3087	508	6.1	1			1.0000E-04
38	17.267		0.3747	0.3373%	3747	381	9.8	2			1.0000E-04
39	17.617		0.4865	0.4379%	4865	556	8.7	2			1.0000E-04
40	18.000		1.0155	0.9140%	10155	827	12.3	1			1.0000E-04
41	18.467		1.6443	1.4800%	16443	1062	15.5	2			1.0000E-04
42	18.667		0.5242	0.4718%	5242	618	8.5	2			1.0000E-04

TOTAL AMOUNT = 111.1003

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
PHENOL	2.85	PHENOL
PHENANTHRENE	8.53	PHENANTHRENE

Areas, times, and heights stored in: 0:2117010.ATB
Data File = 0:2117010.PTS Printed on 12-07-1993 at 10:41:03
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 115 millivolts



++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-07-1993 10:42:15 Version 5.1 **********

* Sample Name: 23948 Data File: 0:2117011 *
* Date: 11-12-1993 19:21:27 Method: 0:BNAB 12-04-1993 14:15:01 # 71 *
* Interface: 6 Cycle#: 11 Operator DJB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: 3700-2 BPC Column Type: RTX5,30m*.32mm,.25um *
* Solvent Description: HE HOLDUP 150sec @ 40c *
* Conditions: 40H5to300@15/mH18 I=250 D=330 *
* Detector 0: Detector 1: FID ATT4R1 *
* Misc. Information: 2uL SPLT=16 CID=5799B *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 1000 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in NG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
1	1.183		60.2710	1.2559%	602710	142244	4.2	2			1.0000E-04
2	1.317		4599.2148	95.8400%	45992148	994186	46.3	OV			1.0000E-04
3	2.800		31.3109	0.6525%	313109	52116	6.0	4			1.0000E-04
4	2.933		36.8471	0.7678%	368471	36009	10.2	4			1.0000E-04
5	3.133		37.6138	0.7838%	376138	9641	39.0	4			1.0000E-04
6	4.550		1.8471	0.0385%	18471	1684	11.0	4			1.0000E-04
7	4.767		1.9309	0.0402%	19309	3720	5.2	4			1.0000E-04
8	5.217		0.1554	0.0032%	1554	329	4.7	1			1.0000E-04
10	6.517		14.2691	0.2973%	142691	34248	4.2	2			1.0000E-04
11	7.200		0.8604	0.0179%	8604	611	14.1	2			1.0000E-04
15	8.783		0.1459	0.0030%	1459	186	7.9	1			1.0000E-04
16	9.167		0.9227	0.0192%	9227	1087	8.5	1			1.0000E-04
18	11.900		1.5772	0.0329%	15772	1463	10.8	2			1.0000E-04
19	12.550		0.1033	0.0022%	1033	422	2.4	2			1.0000E-04
20	13.017		0.1006	0.0021%	1006	366	2.8	1			1.0000E-04
22	13.483		0.1214	0.0025%	1214	287	4.2	1			1.0000E-04
23	13.967		0.1371	0.0029%	1371	282	4.9	2			1.0000E-04
24	14.233		0.4820	0.0100%	4820	556	8.7	2			1.0000E-04
25	14.433		0.4534	0.0094%	4534	626	7.2	2			1.0000E-04
26	14.633		0.4746	0.0099%	4746	762	6.2	2			1.0000E-04
27	14.767		0.4453	0.0093%	4453	708	6.3	2			1.0000E-04
28	14.967		1.1057	0.0230%	11057	778	14.2	2			1.0000E-04
29	15.150		0.6286	0.0131%	6286	958	6.6	2			1.0000E-04
30	15.300		0.7106	0.0148%	7106	1052	6.8	2			1.0000E-04
31	15.450		0.5964	0.0124%	5964	1022	5.8	2			1.0000E-04
32	15.617		0.5215	0.0109%	5215	704	7.4	2			1.0000E-04
33	15.750		0.5211	0.0109%	5211	738	7.1	2			1.0000E-04
34	15.883		0.3930	0.0082%	3930	612	6.4	2			1.0000E-04
35	16.033		0.5848	0.0122%	5848	610	9.6	2			1.0000E-04
36	16.300		1.9407	0.0404%	19407	1790	10.8	2			1.0000E-04
37	16.800		0.6284	0.0131%	6284	570	11.0	2			1.0000E-04
38	17.050		0.2807	0.0058%	2807	384	7.3	2			1.0000E-04
39	17.333		0.2404	0.0050%	2404	206	11.6	1			1.0000E-04
40	17.617		0.3023	0.0063%	3023	370	8.2	1			1.0000E-04
41	17.900		0.1410	0.0029%	1410	280	5.0	2			1.0000E-04
42	18.000		0.3354	0.0070%	3354	434	7.7	2			1.0000E-04
43	18.367		0.2956	0.0062%	2956	227	13.0	1			1.0000E-04
45	18.917		0.2373	0.0049%	2373	528	4.5	2			1.0000E-04
46	19.233		0.1017	0.0021%	1017	170	6.0	2			1.0000E-04

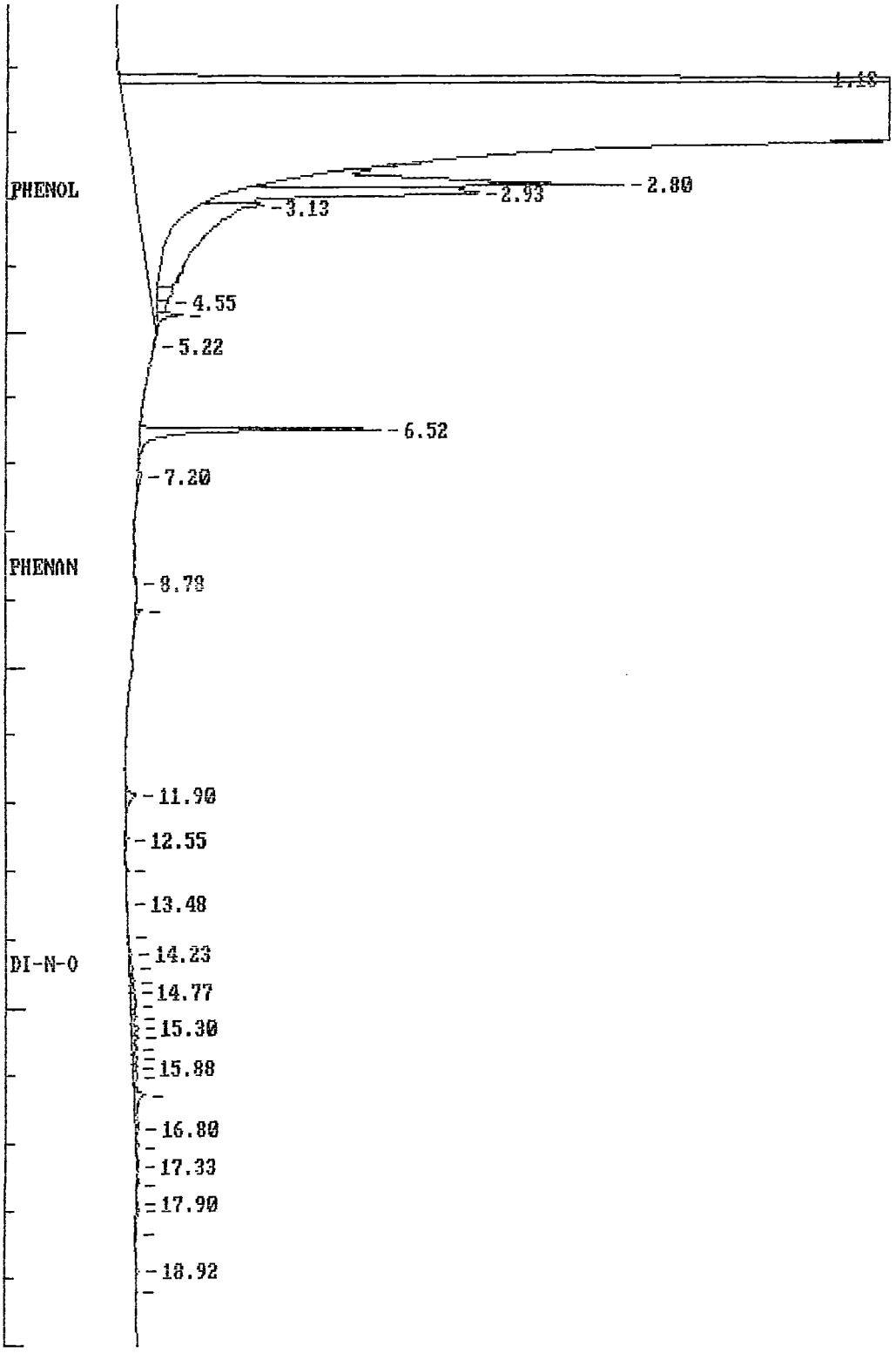
1878

TOTAL AMOUNT = 4799.8496

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
PHENOL	2.85	PHENOL
PHENANTHRENE	8.53	PHENANTHRENE
DI-N-OCTYL-PHT	14.35	DI-N-OCTYL-PHT

Areas, times, and heights stored in: O:2117011.ATB
Data File = O:2117011.PTS Printed on 12-07-1993 at 10:42:55
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 115 millivolts



++++++ EXTERNAL STANDARD TABLE ++++++

********** 12-07-1993 10:44:13 Version 5.1 **********

* Sample Name: 23945 Data File: 0:2117012 *
* Date: 11-12-1993 19:52:35 Method: 0:BNAB 12-04-1993 14:15:01 # 71 *
* Interface: 6 Cycle#: 12 Operator DJB Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 10 Threshold: 1 Area Threshold: 100 *

****

* Instrument Type: 3700-2 BPC Column Type: RTX5,30m*.32mm,.25um *
* Solvent Description: HE HOLDUP 150sec @ 40c *
* Conditions: 40H5to300@15/mH18 I=250 D=330 *
* Detector 0: Detector 1: FID ATT4R1 *
* Misc. Information: 2uL SPLT=16 CID=5799B *

****

Starting Delay: 0.00 Ending retention time: 20.00
Area reject: 1000 One sample per 1.000 sec.
Amount injected: 1.00 Dilution factor: 1.00
Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in NG	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
3	1.250		66.0810	0.7139%	660810	86218	7.7	2			1.0000E-04
4	1.317		4536.7305	49.0132%	45367304	994306	45.6	OV			1.0000E-04
5	2.783		135.7666	1.4668%	1357666	38340	35.4	4			1.0000E-04
6	4.567		5.1113	0.0552%	51113	6195	8.3	4			1.0000E-04
7	4.750		11.6497	0.1259%	116497	14380	8.1	4			1.0000E-04
8	5.017		5.4362	0.0587%	54362	5069	10.7	4			1.0000E-04
9	5.233		4.2074	0.0455%	42074	4244	9.9	4			1.0000E-04
10	5.367		3.7806	0.0408%	37806	4026	9.4	4			1.0000E-04
11	5.617		11.2486	0.1215%	112486	11118	10.1	4			1.0000E-04
12	5.917		2.6482	0.0286%	26482	3235	8.2	4			1.0000E-04
13	6.017		2.2017	0.0238%	22017	3082	7.1	4			1.0000E-04
14	6.150		2.2618	0.0244%	22618	4282	5.3	4			1.0000E-04
15	6.350		8.3711	0.0904%	83711	10008	8.4	4			1.0000E-04
16	6.517		94.4857	1.0208%	944857	320799	2.9	2			1.0000E-04
17	6.850		12.8386	0.1387%	128386	40026	3.2	2			1.0000E-04
18	6.983		58.3932	0.6309%	583932	235478	2.5	3			1.0000E-04
19	7.167		7.2426	0.0782%	72426	9005	8.0	4			1.0000E-04
20	7.367		55.5416	0.6001%	555416	237862	2.3	2			1.0000E-04
21	7.500		8.6255	0.0932%	86255	14753	5.8	2			1.0000E-04
22	7.633		4.7957	0.0518%	47957	8957	5.4	2			1.0000E-04
23	7.733		6.2838	0.0679%	62838	20023	3.1	2			1.0000E-04
24	7.850		22.7494	0.2458%	227494	45495	5.0	2			1.0000E-04
25	7.967		16.4192	0.1774%	164192	27588	6.0	2			1.0000E-04
26	8.200		43.7054	0.4722%	437054	89696	4.9	2			1.0000E-04
27	8.300		232.0468	2.5069%	2320469	347547	6.7	2			1.0000E-04
28	8.667		187.1741	2.0222%	1871741	790600	2.4	3			1.0000E-04
29	9.000		134.4900	1.4530%	1344900	439065	3.1	4			1.0000E-04
30	9.317		134.0698	1.4484%	1340698	170283	7.9	2			1.0000E-04
31	9.583		105.0038	1.1344%	1050038	196820	5.3	2			1.0000E-04
32	9.917		96.8754	1.0466%	968754	136184	7.1	2			1.0000E-04
33	10.200		121.1294	1.3086%	1211294	125497	9.7	2			1.0000E-04
34	10.533		52.5505	0.5677%	525505	78405	6.7	2			1.0000E-04
35	11.100		2.7793	0.0300%	27793	5928	4.7	2			1.0000E-04
36	11.200		3.1027	0.0335%	31027	5319	5.8	2			1.0000E-04
37	11.367		4.0172	0.0434%	40172	14453	2.8	2			1.0000E-04
38	11.533		345.0173	3.7274%	3450174	871090	4.0	3			1.0000E-04
39	11.950		32.4223	0.3503%	324223	40218	8.1	4			1.0000E-04
40	12.350		9.9859	0.1079%	99859	29032	3.4	2			1.0000E-04
41	12.483		12.7136	0.1374%	127136	17137	7.4	2			1.0000E-04
42	12.733		18.4438	0.1993%	184439	31993	5.8	2			1.0000E-04
43	13.167		2.3113	0.0250%	23113	5074	4.6	2			1.0000E-04

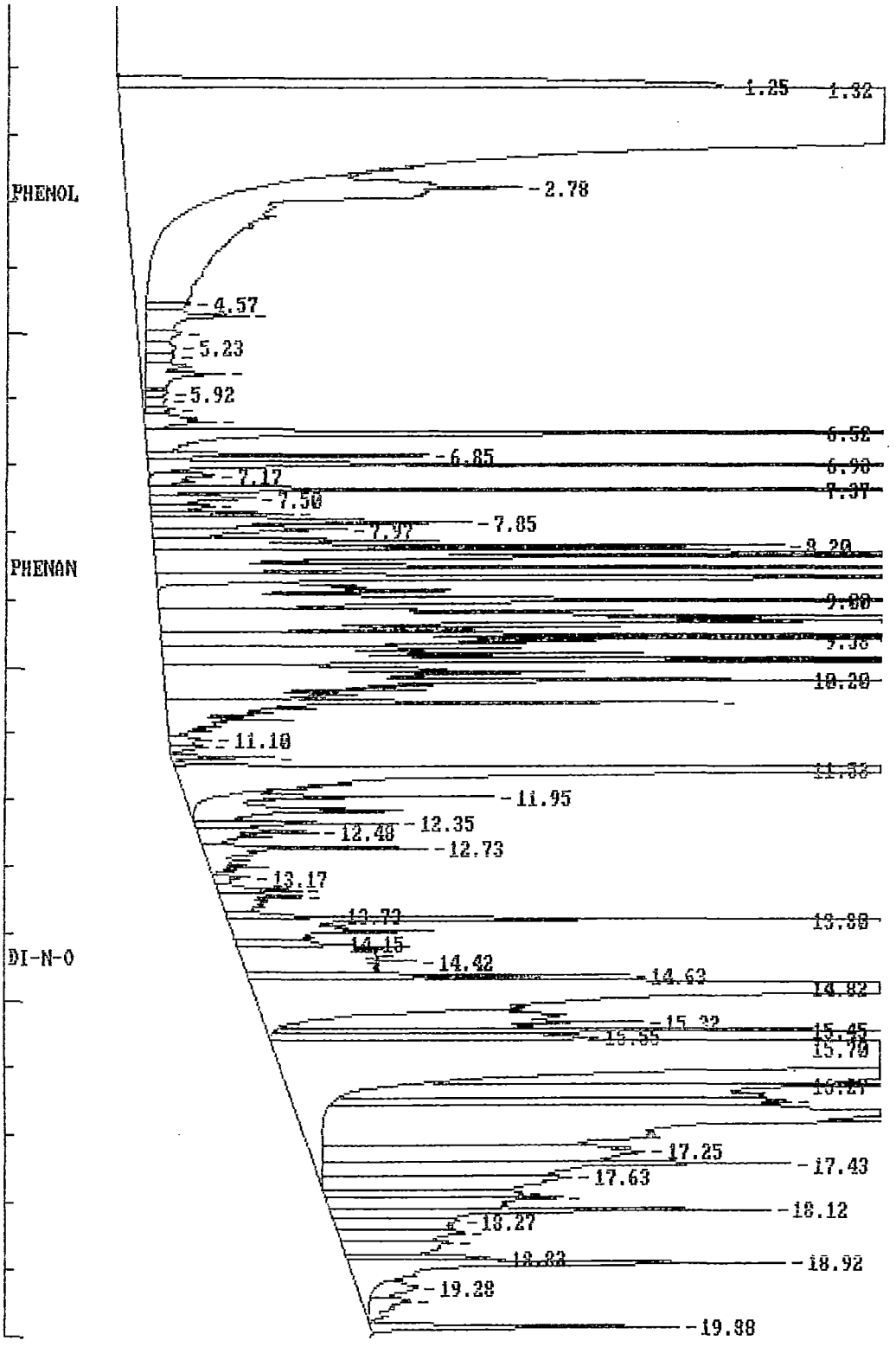
45	13.450		10.4737	0.1132%	104737	11723	8.9	2			1.0000E-04
46	13.733		4.7757	0.0516%	47757	13911	3.4	2			1.0000E-04
47	13.800		49.1827	0.5314%	491827	111749	4.4	2			1.0000E-04
48	14.150		7.8228	0.0845%	78228	13052	6.0	2			1.0000E-04
49	14.417	DI-N-OCTYL-PHT	89.7595	0.9697%	479989	24900	19.3	2	0	.4645	1.8700E-04
50	14.633		20.0772	0.2169%	200772	54485	3.7	2			1.0000E-04
51	14.817		586.2855	6.3340%	5862855	965636	6.1	3			1.0000E-04
52	15.317		48.7415	0.5266%	487415	49546	9.8	4			1.0000E-04
53	15.450		37.8815	0.4093%	378815	133275	2.8	4			1.0000E-04
54	15.550		24.9682	0.2697%	249682	44764	5.6	4			1.0000E-04
55	15.700		908.6296	9.8165%	9086296	963277	9.4	3			1.0000E-04
56	16.067		80.1735	0.8662%	801735	121588	6.6	4			1.0000E-04
57	16.267		84.9765	0.9181%	849765	71967	11.8	4			1.0000E-04
58	16.517		49.9608	0.5398%	499608	65813	7.6	4			1.0000E-04
59	16.683		235.5209	2.5445%	2355209	121005	19.5	4			1.0000E-04
60	17.250		66.9564	0.7234%	669564	46051	14.5	4			1.0000E-04
61	17.433		54.7299	0.5913%	547299	66812	8.2	4			1.0000E-04
62	17.633		44.5170	0.4809%	445170	35822	12.4	4			1.0000E-04
63	17.867		16.7746	0.1812%	167746	28610	5.9	2			1.0000E-04
64	17.933		33.9243	0.3665%	339243	34027	10.0	2			1.0000E-04
65	18.117		32.1250	0.3471%	321250	62922	5.1	2			1.0000E-04
66	18.267		20.4602	0.2210%	204602	18178	11.3	2			1.0000E-04
67	18.467		16.1200	0.1742%	161200	18254	8.8	2			1.0000E-04
68	18.600		17.9949	0.1944%	179949	16073	11.2	2			1.0000E-04
69	18.833		11.1770	0.1208%	111770	20612	5.4	2			1.0000E-04
70	18.917		46.3660	0.5009%	463660	62341	7.4	3			1.0000E-04
71	19.283		5.9219	0.0640%	59219	5925	10.0	4			1.0000E-04
72	19.500		7.4026	0.0800%	74026	5970	12.4	4			1.0000E-04
73	19.883		16.2807	0.1759%	162807	44035	3.7	2			1.0000E-04

TOTAL AMOUNT = 9256.1436

PEAKS NOT FOUND IN THIS RUN

NAME	ADJUSTED RET.TIME.	REFERENCE PEAK
PHENOL	2.85	PHENOL
PHENANTHRENE	8.53	PHENANTHRENE

Areas, times, and heights stored in: 0:2117012.ATB
Data File = 0:2117012.PTS Printed on 12-07-1993 at 10:45:30
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 115 millivolts



PROCEDURE: TCA DIAGNOSTIC REPORT 11/11/93 10:31:11
DATA FILE: 200VZ1111
REFERENCE: TAB11
NAME LIST: P2 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: J2

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
3	3	1	17	42	41	4	55	J2/T1

42 COMPOUNDS PROCESSED, 41 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	HV	1	-400	398	398	.	1	997	.	128	398	.	1
2	HV	2	-504	502	502	.	1	995	.	114	502	.	1
3	HV	3	-864	863	863	.	1	972	.	117	863	.	1
4	HV	4	-457	455	455	.	1	973	.	65	455	.	1
5	HV	5	-675	674	674	.	1	995	.	98	674	.	1
6	HV	6	-1034	1033	1033	.	1	989	.	95	1033	.	1
7	HV	7	-135	133	133	.	1	988	.	50	133	.	1
8	HV	8	-163	161	162	1	1	994	.	94	162	.	1
9	HV	9	-143	141	141	.	1	991	.	62	141	.	1
10	HV	10	-170	168	169	1	1	998	.	64	169	.	1
11	HV	11	-267	265	266	1	1	999	.	84	266	.	1
12	HV	12	-235	233	232	-1	1	992	.	43	232	.	1
13	HV	13	-247	245	246	1	1	988	.	76	246	.	1
14	HV	14	-229	227	228	1	1	980	.	96	228	.	1
15	HV	15	-325	323	324	1	1	920	.	63	324	.	1
16	HV	16	-290	288	289	1	1	993	.	96	289	.	1
17	HV	17	-408	406	406	.	1	994	.	83	406	.	1
18	HV	18	-465	464	463	-1	1	948	.	62	463	.	1
19	HV	19	-380	378	378	.	1	997	.	43	378	.	1
20	HV	20	-426	424	424	.	1	992	.	97	424	.	1
21	HV	21	-443	441	441	.	2	922	.	117	441	.	1
22	HV	22	-331	329	329	.	1	1000	.	43	329	.	1
23	HV	23	-588	587	587	.	1	972	.	83	587	.	1
24	HV	24	-556	555	555	.	1	993	.	63	555	.	1
25	HV	25	-712	711	710	-1	1	995	.	75	710	.	1
26	HV	26	-532	531	531	.	1	981	.	130	531	.	1
27	HV	27	-785	784	784	.	1	997	.	129	784	.	1
28	HV	28	-734	733	733	.	1	992	.	97	733	.	1
29	HV	29	-464	463	462	-1	1	958	.	78	462	.	1
30	HV	30	-642	641	641	.	1	1000	.	75	641	.	1
31	HV	32	-985	984	983	-1	1	995	.	173	983	.	1
32	HV	33	-664	663	662	-1	1	995	.	43	662	.	1
33	HV	34	-772	771	770	-1	1	993	.	43	770	.	1
34	HV	35	-753	752	752	.	1	989	.	164	752	.	1
35	HV	36	-1058	1057	1057	.	1	993	.	83	1057	.	1
36	HV	37	-683	682	682	.	1	994	.	91	682	.	1
37	HV	38	-868	867	867	.	1	914	.	112	867	.	1
38	HV	39	-885	884	884	.	2	910	.	106	884	.	1
39	HV	40	-961	960	959	-1	1	970	.	104	960	1	1
40	HV	41	-959	958	958	.	1	909	.	106	958	.	1
41	HV	53	-407	405	.	.	.	.	.	72	406	.	1
42	HV	58	-189	187	188	1	1	998	.	101	188	.	1

PROCEDURE: TCA DIAGNOSTIC REPORT 1/01/01 6:33:36
DATA FILE: 160BA1130
REFERENCE: TAB11
NAME LIST: P1 INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: S1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
6	6	2	27	31	29	4	170	S1/V1
6	6	1	27	32	31	16	183	S1/V2
6	6	1	27	31	25	192	223	S1/V3

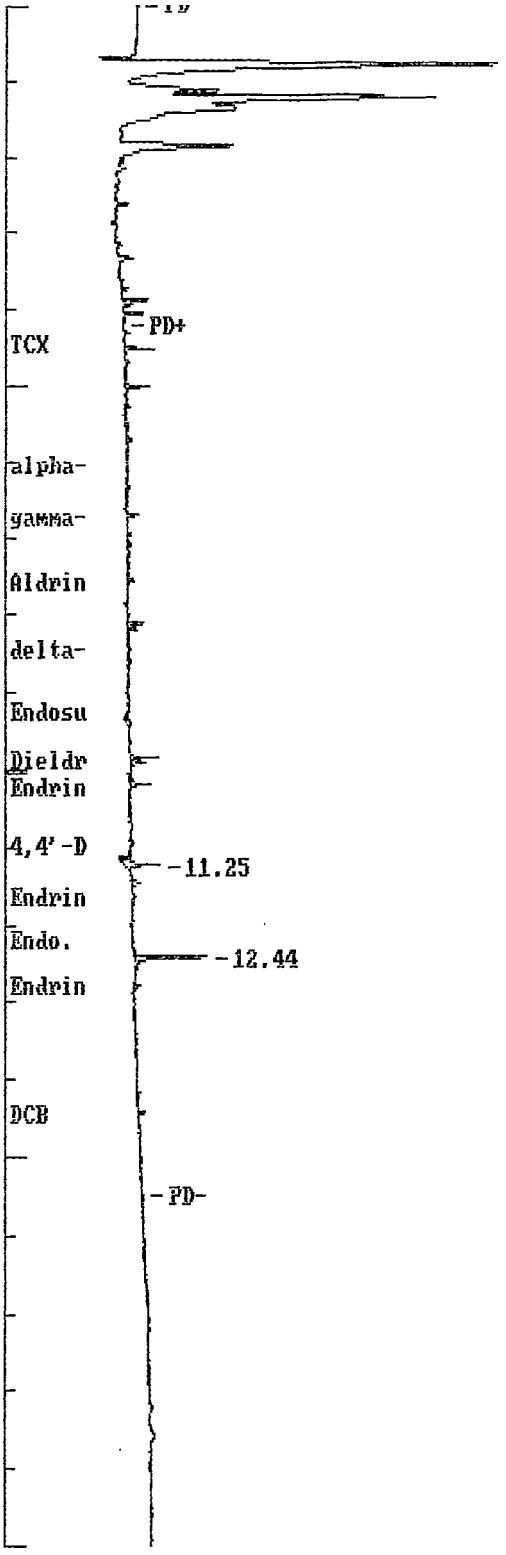
82 COMPOUNDS PROCESSED, 73 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	SV	1	420	422	422	.	1	972	.	152	422	.	1
2	SV	2	644	646	646	.	1	983	.	136	646	.	1
3	SV	3	958	960	960	.	1	977	.	164	959	-1	1
4	SV	4	1216	1218	1218	.	1	937	.	188	1218	.	1
5	SV	5	1698	1701	1701	.	1	987	.	240	1701	.	1
6	SV	6	1956	1959	1959	.	2	951	.	264	1959	.	1
7	SV	7	217	221	220	-1	1	989	.	112	220	.	1
8	SV	8	389	393	393	.	1	963	.	132	393	.	1
9	SV	9	397	401	403	2	1	947	.	99	403	.	1
10	SV	10	451	455	454	-1	1	983	.	152	454	.	1
11	SV	11	523	527	528	1	1	983	.	82	528	.	1
12	SV	12	851	855	854	-1	1	989	.	172	854	.	1
13	SV	13	-1100	1103	.	.	.	.	.	330	1104	.	1
14	SV	14	1523	1526	1526	.	1	971	.	244	1526	.	1
15	SV	15	398	402	405	3	1	953	.	94	405	.	1
16	SV	16	396	400	400	.	1	967	.	93	400	.	1
17	SV	17	392	396	396	.	1	959	.	128	396	.	1
18	SV	18	412	416	415	-1	1	996	.	146	414	-1	1
19	SV	19	422	426	425	-1	2	970	.	146	425	.	1
20	SV	20	462	466	468	2	1	956	.	108	468	.	1
21	SV	21	453	457	456	-1	1	986	.	146	456	.	1
22	SV	22	499	503	504	1	1	982	.	108	504	.	1
23	SV	23	494	498	497	-1	1	941	.	45	497	.	1
24	SV	24	527	531	532	1	1	900	.	108	533	1	1
25	SV	25	517	521	525	4	2	949	.	70	525	.	1
26	SV	26	506	510	508	-2	1	979	.	117	508	.	1
27	SV	27	526	530	531	1	1	839	.	77	531	.	1
28	SV	28	573	577	581	4	1	975	.	82	581	.	1
29	SV	29	584	588	587	-1	1	953	.	139	587	.	1
30	SV	30	617	621	622	1	1	989	.	107	622	.	1
31	SV	31	-663	667	.	.	.	.	.	122	.	.	.
32	SV	32	630	633	634	1	1	960	.	93	634	.	1
33	SV	33	631	634	635	1	1	891	.	162	636	1	1
34	SV	34	641	644	643	-1	1	965	.	180	643	.	1
35	SV	35	646	649	650	1	1	974	.	128	650	.	1
36	SV	36	672	675	676	1	1	950	.	127	676	.	1
37	SV	37	692	695	693	-2	1	988	.	225	693	.	1
38	SV	38	777	780	780	.	1	890	.	107	780	.	1
39	SV	39	772	775	775	.	1	906	.	142	775	.	1
40	SV	40	-819	822	.	.	.	.	.	237	820	.	1
41	SV	41	836	839	839	.	2	974	.	196	839	.	1
42	SV	42	841	844	844	.	2	972	.	196	844	.	1
43	SV	43	855	858	859	1	1	988	.	162	859		1
44	SV	44	889	892	894	2	1	983	.	65	894		1
45	SV	45	942	945	947	2	1	983	.	163	947	.	1
46	SV	46	927	930	930		1	990	.	152	930	.	1

1885

48	SV	48	963	966	966	.	1	979	.	153	966	.	1
49	SV	49	981	984	987	3	1	909	.	184	987	.	1
50	SV	50	1015	1018	1021	3	1	863	.	109	1021	.	1
51	SV	51	992	995	996	1	1	956	.	168	996	.	1
52	SV	52	1011	1014	1017	3	1	986	.	165	1017	.	1
53	SV	53	946	949	952	3	1	983	.	165	952	.	1
54	SV	54	1073	1076	1072	-4	2	947	.	149	.	.	.
55	SV	55	1067	1070	1070	.	1	980	.	204	1069	-1	1
56	SV	56	1053	1056	1056	.	1	959	.	166	1056	.	1
57	SV	57	1073	1076	1072	-4	2	926	.	138	1072	.	1
58	SV	58	1082	1085	1091	6	1	856	.	198	1090	-1	1
59	SV	59	1092	1096	1097	1	1	859	.	169	1096	-1	1
60	SV	60	1151	1155	1153	-2	1	942	.	248	1153	.	1
61	SV	61	1165	1169	1169	.	1	969	.	284	1169	.	1
62	SV	62	1203	1207	1207	.	1	953	.	266	1207	.	1
63	SV	63	1219	1223	1223	.	2	946	.	178	1223	.	1
64	SV	64	1227	1231	1231	.	2	981	.	178	1231	.	1
65	SV	65	1266	1270	1270	.	1	951	.	167	1270	.	1
66	SV	66	1370	1375	1373	-2	1	981	.	149	1373	.	1
67	SV	67	1432	1437	1436	-1	2	994	.	202	1436	.	1
68	SV	68	1468	1473	1472	-1	3	992	.	202	1472	.	1
69	SV	69	1638	1644	1642	-2	1	995	.	149	1642	.	1
70	SV	70	-1709	1715	.	.	.	.	.	252	1713	.	1
71	SV	71	1694	1700	1699	-1	2	994	.	228	1699	.	1
72	SV	72	1772	1778	1775	-3	1	987	.	149	1775	.	1
73	SV	73	1701	1707	1706	-1	2	994	.	228	1706	.	1
74	SV	74	1898	1904	1908	4	1	889	.	149	1908	.	1
75	SV	75	1890	1896	.	.	.	.	.	252	.	.	.
76	SV	76	1895	1901	1904	3	1	970	.	252	1905	1	1
77	SV	77	1943	1950	1953	3	1	939	.	252	1953	.	1
78	SV	78	2156	2163	.	.	.	.	.	276	.	.	.
79	SV	79	-2177	2184	.	.	.	.	.	278	.	.	.
80	SV	80	-2209	2217	2219	2	2	836	.	276	.	.	.
81	SV	82	-506	507	.	.	.	.	.	105	.	.	.
82	SV	83	-814	816	.	.	.	.	.	216	.	.	.

Areas, times, and heights stored in: O:076A30.ATB
Data File = O:076A30.PTS Printed on 11-23-1993 at 10:22:56
Start time: 0.00 min. Stop time: 20.00 min. Offset: 0 mv.
Full Range: 40 millivolts



INSTRUMENT ID: 3400-CA
COLUMN I.D. DB-1701 320um x 30M
ANALYSIS DATE: 11-23-93
ANALYSIS TIME: 06:22:08
1.0 ul INJECTED

PIBLK40

BAD

11-23-93

1887

++++++ EXTERNAL STANDARD TABLE ++++++

********** 11-23-1993 10:22:53 Version 5.1 **********

* Sample Name: PIBLK40 Data File: 0:076A30 *

* Date: 11-23-1993 06:22:08 Method: 0:076AB 11-23-1993 10:08:48 # 845 *

* Interface: 1 Cycle#: 30 Operator DB Channel#: 0 Vial#: N.A. *

* Starting Peak Width: 3 Threshold: 5 Area Threshold: 250 *

****

* Instrument Type: 3400-A Column Type: DB-1701 .32mm x 30M *

* Solvent Description: carrier gas = H2; make-up = N2 *

* Conditions: 110H.5to140@20/minto280@11/minH9 INJ=210 DET=300 *

* Detector 0: ECD Range1 Detector 1: ECD Range1 *

* Misc. Information: 11/22/93,P,; *

****

Starting Delay: 0.00 Ending retention time: 20.00

Area reject: 3500 One sample per 0.300 sec.

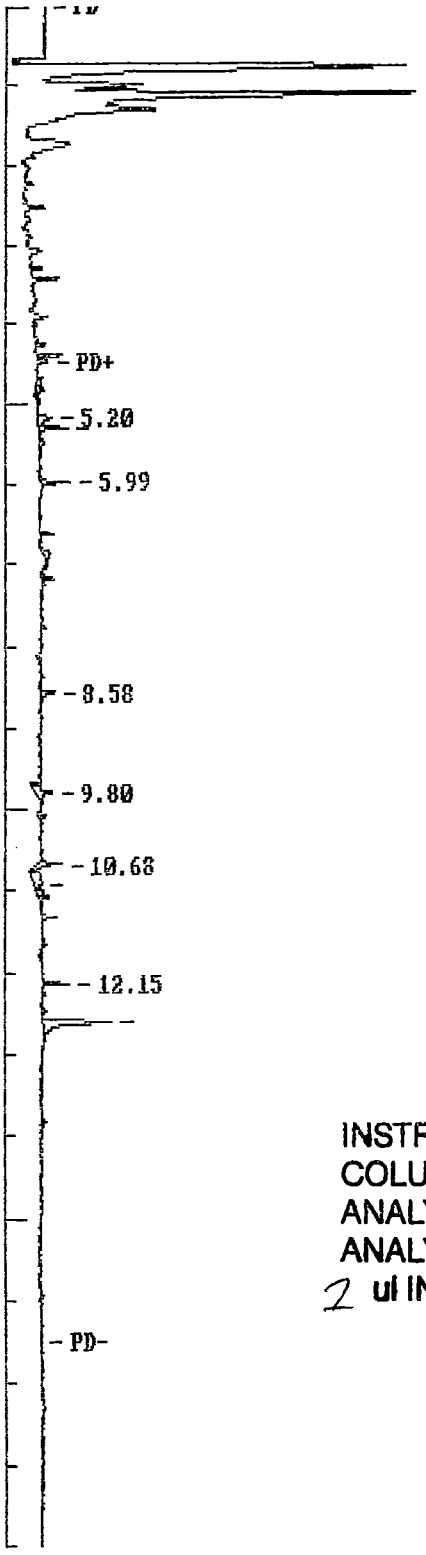
Amount injected: 1.00 Dilution factor: 1.00

Sample Weight: 1.00000

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
19	11.245	4,4'-DDT	0.3287	32.4687%	3824	1404	2.7	1	0	0	8.5967E-05
21	12.435		0.6838	67.5313%	6838	3042	2.2	1			1.0000E-04

TOTAL AMOUNT = 1.0125

Areas, times, and heights stored in: O:076B30.ATB
Data File = O:076B30.PTS Printed on 11-24-1993 at 11:21:27
Start time: 0.00 min. Stop time: 19.00 min. Offset: 0 mv.
Full Range: 100 millivolts



PIBLK40

INSTRUMENT ID: 3400-~~D~~ B
COLUMN ID: DB-17 320um x 30M
ANALYSIS DATE: 11.23.93
ANALYSIS TIME: 06:22
2 ul INJECTED

11-24.93
BMG

```
++++++     EXTERNAL STANDARD TABLE     ++++++
******************** 11-24-1993 11:21:22 Version 5.1 ********************
* Sample Name: PIBLK40                          Data File: 0:076B30      *
* Date: 11-23-1993 06:22:15 Method: 0:076BB  11-24-1993 11:17:35  #  882  *
* Interface: 2   Cycle#:  30   Operator BG  Channel#: 0    Vial#: N.A.    *
* Starting Peak Width:  3   Threshold: 5  Area Threshold: 250             *
*************************************************************************
* Instrument Type: 3400-B                Column Type: DB-17 .32mm x 30M   *
*              Solvent Description: carrier gas = H2; make-up = N2        *
* Conditions:  110H.5to140@20/min to280@11/minH9 INJ=210 DET=300          *
*             Detector 0: ECD Range1          Detector 1: ECD Range1      *
* Misc. Information: 11/22/93,C,;                                         *
*************************************************************************
Starting Delay:    0.00                      Ending retention time:    19.00
Area reject:      3500                       One sample per   0.300 sec.
Amount injected:        1.00                 Dilution factor:        1.00
Sample Weight:          1.00000
```

PEAK NUM	RET TIME	PEAK NAME	CONCENTRATION in ug/ml	NORMALIZED CONC	AREA	HEIGHT	AREA/ HEIGHT	BL	REF PEAK	% DELTA RET TIME	CONC/AREA
6	5.200		0.6074	10.8578%	6074	1435	4.2	2			1.0000E-04
7	5.325		0.6463	11.5536%	6463	2916	2.2	2			1.0000E-04
11	5.990		0.6217	11.1129%	6217	2942	2.1	1			1.0000E-04
22	8.580		0.3586	6.4099%	3586	1391	2.6	1			1.0000E-04
24	9.795	g. Chlordane	0.0007	0.0122%	7404	1630	4.5	1	0	.1533	9.2400E-08
27	10.680	Dieldrin	0.0007	0.0133%	7440	2446	3.0	1	0	0	9.9731E-08
28	10.925		0.8896	15.9024%	8896	766	11.6	2			1.0000E-04
34	12.150	4,4'-DDT	0.0007	0.0132%	4549	2631	1.7	1	0	-.0822	1.6277E-07
37	12.620		2.4685	44.1246%	24685	6903	3.6	1			1.0000E-04

TOTAL AMOUNT = 5.5943

VIII EPA Shipping/Receiving Documents

CASE # 21170
SDG # EXQ02

FEDERAL EXPRESS

USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL.
PACKAGE TRACKING NUMBER
5180664

0715180664

RECIPIENT'S COPY

1 Date

From (Your Name) Please Print | Your Phone Number (Very Important)

Company | Department/Floor No.

Street Address

City | State | ZIP Required

2 To (Recipient's Name) Please Print | Recipient's Phone Number (Very Important)

Company | Department/Floor No.

Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.)

City | State | ZIP Required

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)

H IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here
Street Address
City | State | ZIP Required

3 PAYMENT 1 [X] Bill Sender 2 [ ] Bill Recipient's FedEx Acct. No. 3 [ ] Bill 3rd Party FedEx Acct. No. 4 [ ] Bill Credit Card
5 [ ] Cash/Check

4 SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning†)
11 [ ] OTHER PACKAGING
16 [ ] FEDEX LETTER*
12 [ ] FEDEX PAK*
13 [ ] FEDEX BOX
14 [ ] FEDEX TUBE

Standard Overnight (Delivery by next business afternoon. No Saturday delivery†)
51 [X] OTHER PACKAGING
56 [ ] FEDEX LETTER*
52 [ ] FEDEX PAK*
53 [ ] FEDEX BOX
54 [ ] FEDEX TUBE

Economy Two-Day (Delivery by second business day †)
30 [ ] ECONOMY*
* Economy Letter Rate not available. Minimum charge: One pound Economy rate.

Government Overnight (Restricted for authorized users only)
46 [ ] GOV'T LETTER
41 [ ] GOV'T PACKAGE

Freight Service (for packages over 150 lbs.)
70 [ ] OVERNIGHT FREIGHT** (Confirmed reservation required)
80 [ ] TWO-DAY FREIGHT**
† Delivery commitment may be later in some areas
*Declared Value Limit $500.
**Call for delivery schedule.

5 DELIVERY AND SPECIAL HANDLING (Check services required)

Weekday Service
1 [ ] HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H)
2 [X] DELIVER WEEKDAY

Saturday Service
31 [ ] HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H)
3 [ ] DELIVER SATURDAY (Extra charge) (Not available to all locations)
9 [ ] SATURDAY PICK-UP (Extra charge)

Special Handling
4 [ ] DANGEROUS GOODS (Extra charge)
6 [ ] DRY ICE Dangerous Goods Shipper's Declaration not required
Dry Ice, 9, UN 1845 ____ X ____ kg. 904 III
[ ] DESCRIPTION
12 [ ] HOLIDAY DELIVERY (If offered) (Extra charge)

6

PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE (See right)
1	61	
1	49	
Total 2	Total 110	Total

DIM SHIPMENT (Chargeable Weight)
[ ] ____ lbs.
L x W x H

Received At
1 [ ] Regular Stop 3 [ ] Drop Box
2 [ ] On-Call Stop 4 [ ] B.S.C. 5 [X] Station

Emp. No. | Date
[ ] Cash Received
[ ] Return Shipment
[ ] Third Party [ ] Chg. To Del. [ ] Chg. To Hold
Street Address
City | State | Zip
Received By: X RECD
Date/Time Received | FedEx Employee Number
1/6/93 0835

7 Release Signature:

Federal Express Use
Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges

REVISION DATE 12/92
PART #137205 GBFE
FORMAT #158
158

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PRINTED IN U.S.A.

2081

FEDERAL EXPRESS

USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE TRACKING NUMBER
0715180664

0715180664

0 7 1 5 1 8 0 6 6 4

1 SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER: 0627-0011-4
Date: 11-3-93

From (Your Name) Please Print: Peter Sorensen
Your Phone Number (Very Important): (217) 524-1657
Company: Illinois Env. Protection Agency
Department/Floor No.:
Street Address: 2200 Churchill Rd
City: Springfield
State: IL
ZIP Required: 62794

2 To (Recipient's Name) Please Print: ~~Encotec~~ Scott Devore
Recipient's Phone Number (Very Important): (313) 761-1385
Company: Encotec
Department/Floor No.:
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 3985 Research Triangle Park Drive
City: Ann Arbor
State: Michigan
ZIP Required: 48108

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.): 600 LPC - SF

H IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here
Street Address:
City:
State:
ZIP Required:

3 PAYMENT
1 [X] Bill Sender Acct. No. Req'd
2 [ ] Bill Recipient's FedEx Acct. No. Fill in Account Number below
3 [ ] Bill 3rd Party FedEx Acct. No. Fill in Account Number below (req'd.)
4 [ ] Bill Credit Card Fill in Credit Card No. below (req'd.)
5 [ ] Cash/Check
Acct./Credit Card No.:
Exp. Date:

4 SERVICES (Check only one box)

Priority Overnight
11 [ ] OTHER PACKAGING
16 [ ] FEDEX LETTER*
12 [ ] FEDEX PAK*
13 [ ] FEDEX BOX
14 [ ] FEDEX TUBE

Standard Overnight (Delivery by next business afternoon; No Saturday delivery)
51 [X] OTHER PACKAGING
56 [ ] FEDEX LETTER*
52 [ ] FEDEX PAK*
53 [ ] FEDEX BOX
54 [ ] FEDEX TUBE

Economy Two-Day (Delivery by second business day)
30 [ ] ECONOMY*
* Economy Letter Rate not available. Minimum charge. Only pound Economy rate.

Government Overnight (Restricted for authorized users only)
46 [ ] GOV'T LETTER
41 [ ] GOV'T PACKAGE

Freight Service (For packages over 150 lbs.)
70 [ ] OVERNIGHT FREIGHT**
80 [ ] TWO-DAY FREIGHT**
Delivery commitment may be later in some areas.
**Call for delivery schedule.

5 DELIVERY AND SPECIAL HANDLING (Check services required)

Weekday Service
1 [ ] HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H)
2 [X] DELIVER WEEKDAY

Saturday Service
31 [ ] HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H)
3 [ ] DELIVER SATURDAY (Extra charge) (Not available to all locations)
9 [ ] SATURDAY PICK-UP (Extra charge)

Special Handling
4 [ ] DANGEROUS GOODS (Extra charge)
6 [ ] DRY ICE (Dangerous Goods Shipper's Declaration not required)
[ ]
12 [ ] HOLIDAY DELIVERY (Extra charge)

6 PACKAGES / WEIGHT In Pounds Only
1 61
1 49
Total / Total
2 110

DIM SHIPMENT (Chargeable Weight)
[ ] lbs.
____ X ____ X ____

Received At
1 [ ] Regular Stop
2 [ ] On-Call Stop
3 [ ] Drop Box
4 [X] B.S.C. Location

Emp. No.:
Date:
[ ] Cash Received
[ ] Return Shipment
[ ] Third Party [ ] Chg. To Del [ ] Chg. To Hold
Street Address:
City:
State:
Zip:
Received By: X DECA
Date/Time Received: 11/04/93 0835
FedEx Employee Number:

7 Release Signature:

Federal Express Use
Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges

REVISION DATE 12/92
PART #137205 GBFE 8/93
FORMAT #158
158

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DESTINATION COPY

1893

SAMPLE STORAGE/TRANSFER SHEET

RAS CASE NUMBER 21170 CLIENT EPA, CLP, RAS DATE RECEIVED 11-04-93

SAS CASE NUMBER N/A SUBMISSION # 4015 INITIALS REC

SMO/CLIENT NUMBER	ASSIGNED ENCOTEC NUMBER	ANALYSIS OR PRESERVATION GROUP	MATRIX	SAMPLE MOVED TO (SITE)	DATE/TIME MOVED	RELINQUISHED BY	RECEIVED BY	SAMPLE STORAGE LOCATION	DATE/TIME STORED	INITIALS
EXQ02	23944	C608, C625	SOIL	3965 R.P.D	11-04-93 1400		REC	C-1	11-04-93 1410	REC
EXQ03	23945									
EXQ04	23946									
EXQ05	23947									
EXQ06	23948									
EXQ07	23949									
EXQ08	23950									
EXQ09	23951									
EXQ10	23952									
EXQ11	23953									

Reviewed by: TJM 12/7/93

FLPSTLO.FOR 09/20/93

SAMPLE STORAGE/TRANSFER SHEET

1895

RAS CASE NUMBER 21170 CLIENT EPA, CLP, RAS DATE RECEIVED 11-04-93

SAS CASE NUMBER N/A SUBMISSION # 4015 INITIALS REC

SMO/CLIENT NUMBER	ASSIGNED ENCOTEC NUMBER	ANALYSIS OR PRESERVATION GROUP	MATRIX	SAMPLE MOVED TO (SITE)	DATE/TIME MOVED	RELINQUISHED BY	RECEIVED BY	SAMPLE STORAGE LOCATION	DATE/TIME STORED	INITIALS
EXQ12	23955	C608, C625	WATER	3965 R.P.D	11-04-93 1400	[signature]	REC	C-1	11-04-93 1410	REC
									11-04-93	REC

Reviewed by: THM 12/7/93

CLPSTLO.FOR 09/20/93

1896

SAMPLE STORAGE/TRANSFER SHEET

RAS CASE NUMBER 21170 CLIENT EPA, CLP, RAS DATE RECEIVED 11-04-93

SAS CASE NUMBER N/A SUBMISSION # 4015 INITIALS REC

SMO/CLIENT NUMBER	ASSIGNED ENCOTEC NUMBER	ANALYSIS OR PRESERVATION GROUP	MATRIX	SAMPLE MOVED TO (SITE)	DATE/TIME MOVED	RELINQUISHED BY	RECEIVED BY	SAMPLE STORAGE LOCATION	DATE/TIME STORED	INITIALS
EXQ02	23944 ~~CL02 REC~~ 11-4	CL624	SOIL	3965 R.P.D	11-04-93 1400	[illegible]	REC	C-6	11-04-93 1410	REC
EXQ03	23945	↓	↓	↓	↓	↓	↓	↓	↓	↓
EXQ04	23946	↓	↓	↓	↓	↓	↓	↓	↓	↓
EXQ05	23947	↓	↓	↓	↓	↓	↓	↓	↓	↓
EXQ06	23948	↓	↓	↓	↓	↓	↓	↓	↓	↓
EXQ07	23949	↓	↓	↓	↓	↓	↓	↓	↓	↓
EXQ08	23950	↓	↓	↓	↓	↓	↓	↓	↓	↓
EXQ09	23951	↓	↓	↓	↓	↓	↓	↓	↓	↓
EXQ10	23952	↓	↓	↓	↓	↓	↓	↓	↓	↓
EXQ11	23953	↓	↓	↓	↓	↓	↓	↓	↓	↓

Reviewed by: TKM 12/7/93

1397

SAMPLE STORAGE/TRANSFER SHEET

RAS CASE NUMBER 21170 CLIENT EPA, CLP, RAS DATE RECEIVED 11-04-93

SAS CASE NUMBER N/A SUBMISSION # 4015 INITIALS REC

SMO/CLIENT NUMBER	ASSIGNED ENCOTEC NUMBER	ANALYSIS OR PRESERVATION GROUP	MATRIX	SAMPLE MOVED TO (SITE)	DATE/TIME MOVED	RELINQUISHED BY	RECEIVED BY	SAMPLE STORAGE LOCATION	DATE/TIME STORED	INITIALS
EXQ 14	23954	C624	WATER	3965 R.P.D	11-04-93 1400	[illegible]	REC	C-5	11-04-93 1410	REC
EXQ 12	23955	↓	↓	↓	↓	↓	↓	↓	↓	↓
EXQ 15	23956	↓	↓	↓	↓	↓	↓	↓	↓	↓
									11-04-93	REC

Reviewed by: TKM 12/7/93

CLPSTLO.FOR 09/20/93

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: 21170

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: IV
Sampling Co.: IEPA

Sampler (Name): Scott R Davis
Sampler Signature: [signature]

4. Type of Activity
Lead: SF, PRP, ST, FED
Pre-Remedial: PA, SSI (X), LSI
Remedial: RIFS, RD, RA, O&M, NPLD
Removal: CLEM, REMA, REM, OIL, UST

5. Date Shipped: 11-3-93
Carrier: FEDERAL EXPRESS
Airbill Number: 0715180664

6. Ship To: Encotec
3925 Research Park Drive
Ann Arbor, Michigan
48108
ATTN:

7. Date Received -- Received by: 11-04-93 RTEQ

Laboratory Contract Number: 68-D2-0012
Unit Price: 685.00

8. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/ PCB	High ARO/ TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water -- Mis Liq.	Non Water -- Mis Liq.
EXQ 02	5	L	G	N	X				5-191202-3	X 106	11/2/93/11:05	SD	MEWN02	OK	X		
EXQ 02	5	L	G	N		X	X		5-191204	X 106	11/2/93/11:05	SD	MEWN02		X		
EXQ 03	5	L	G	N		X	X		5-191208	X 105	11/2/93/11:30	SD	MEWN03				
EXQ 03	5	L	G	N	X				5-191206-7	X 105	11/2/93/11:30	SD	MEWN03				
EXQ 04	5	L	G	N		X	X		5-191211	X 104	11/2/93/12:40	SD	MEWN04				
EXQ 04	5	L	G	N	X				5-191209-10	X 104	11/2/93/12:40	SD	MEWN04				
EXQ 05	5	L	G	N	X				5-191214-5	X 101	11/2/93/13:50	SD	MEWN05				
EXQ 05	5	L	G	N		X	X		5-191216	X 101	11/2/93/13:50	SD	MEWN05				
EXQ 06	5	L	G	N	X				5-191218-9	X 102	11/2/93/13:50	SD	MEWN06				
EXQ 06	5	L	G	N		X	X		5-191220	X 102	11/2/93/13:50	SD	MEWN06				

Shipment for Case complete? (Y/N) (Y)
Page 1 of 2
Sample used for a spike and/or duplicate
Additional Sampler Signatures: First Sample: EXQ02
Chain of Custody Seal Number: 1205 / 1206
Last Sample: EXQ06

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	11-3-93/16:15	[signature]	SDG: EXQ02		[signature]
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
					11/4/93
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? (Y)/N/none	
		RTEQ	11-04-93 0835		

Split Samples: ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O 353621

Org-2

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: 21170

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: V
Sampling Co.: IEPA
Sampler (Name): Scott R Davis
Sampler Signature: Scott Davis

4. Type of Activity: Lead / Pre-Remedial / Remedial / Removal
SF / PRP / ST / FED / PA / SSI / LSI / RIFS / RD / RA / O&M / NPLD / CLEM / REMA / REM / OIL / UST

5. Date Shipped: 11-3-93
Carrier: FEDERAL EXPRESS
Airbill Number: 0715180664

6. Ship To: Encotec, 3985 Research Triangle Park Drive, Ann Arbor, Michigan
ATTN:

7. Date Received -- Received by: 11-04-93 RECA
Laboratory Contract Number: 68-D2-0012
Unit Price: 685.00

8. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/ PCB	High ARO/ TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below) Solids	Water -- Mis Liq.	Non Water -- Mis Liq.
EXQ 07	5	L	G	N	X				5-191222-3	X201	11/2/93 13:20	SD	MEWN07	OK	4		
EXQ 07	5	L	G	N		X	X		5-191224	X201	11/2/93 13:20	SD	MEWN07				
EXQ 08	5	L	G	N	X				5-191002-3	X202	11/2/93 14:45	SD	MEWN08				
EXQ 08	5	L	G	N		X	X		5-191004	X202	11/2/93 14:45	SD	MEWN08				
EXQ 09	5	L	G	N	X				5-191006-7	X203	11/2/93 15:00	SD	MEWN09				
EXQ 09	5	L	G	N		X	X		5-191008	X203	11/2/93 15:00	SD	MEWN09				
EXQ 10	5	L	G	N	X				5-191010-1	X204	11/2/93 15:30	SD	MEWN10				
EXQ 10	5	L	G	N		X	X		5-191012	X204	11/2/93 15:30	SD	MEWN10				
EXQ 11	5	L	G	N	X				5-191014-5	X205	11/2/93 16:10	SD	MEWN11				
EXQ 11	5	L	G	N		X	X		5-191016	X205	11/2/93 16:30	SD	MEWN11				

Shipment for Case complete? (Y/N): Y
Page 1 of 2
Sample used for a spike and/or duplicate:
Additional Sampler Signatures: First Sample: EXQ07
Chain of Custody Seal Number: Last Sample: EXQ11

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Peter F Sorenson	11-3-93 16:15	Debi Emerson		SDG: EXQ02 THU 11/4/93	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		RECA	11-04-93 0835		

Split Samples: ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O 353620

Org-2

1899

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 21170

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: V

Sampling Co.: IEPA

Sampler (Name): Brad Taylor

Sampler Signature: Brad Taylor

4. Type of Activity (Remedial / Removal)

Lead	Pre-Remedial	Remedial	Removal
SF		RIFS	CLEM
PRP	PA	RD	REMA
ST	SSI ☒	RA	REM
FED	LSI	O&M	OIL
		NPLD	UST

5. Date Shipped: 11-3-93

Carrier: FEDERAL EXPRESS

Airbill Number: 0715100654

6. Ship To: Encotec
3985 Research Triangle Park Drive
Ann Arbor, Michigan 48108

ATTN: Scott Sharp

7. Date Received -- Received by: 11-04-93 RECL

Laboratory Contract Number: 68-D2-0012

Unit Price: 685.00

8. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below) Solids	Water -- Mis Liq.	Non Water -- Mis Liq.
EXQ12	2	L	G	1	X		BL		5-191017	G202	11/3/93 /9:20	BT	MEWN12	OK	1/4	1 VOA	
EXQ12	~~3~~	L	G	N		X	~~X~~		5-191019	G202	11/3/93/9:20	BT	MEWN12	↓	OK	BROKEN	
EXQ12	2	L	G	N			X		5-191020-1	G202	11/3/93/9:20	BT	MEWN12				

First & Last Sample: EXQ12

SDG: EXQ02
TAM 11/4/93

Shipment for Case complete? (Y/N): Y

Page 1 of 1

Sample used for a spike and/or duplicate:

Additional Sampler Signatures:

Chain of Custody Seal Number: 142203, 142204

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Peter Thorensen	11-3-93 16:15	John [illegible]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		RECL	11-01-93 0835	TWO TRIPBLANKS RECEIVED NO ID EXQ14 EXQ15 11/10	

Split Samples: ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
Blue - Region Copy Pink - SMO Copy White - Lab Copy for Return to Region Yellow - Lab Copy for Return to SMO

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O 353622

Org-2

0061

NOV 10 1993

Date: November 8, 1993
To: ENCOTEC Labs
From: Peter Sorensen
Re: assignment of sample numbers to organic trip blanks

On our sampling event on November 2 and 3 at the O'Hara Property (Case # 21170) we omitted giving the trip blanks a sampling number. On November 8, we assigned the trip blanks sampling numbers and reported them to Jane VonHoffen. The organic trip blank numbers assigned were EXQ14 and EXQ15.

PRE-LOGIN CHECKLIST

Login Technician: _____

Project name: EPA, CLP, RAS
Receipt date/time: 11-04-93 0835
Project #: 75100
Submission #: 4015
Courier: FEDERAL EXPRESS
Airbill number: 0715180664

SHIPPING CONTAINER(S)

YES NO N/A * Were shipping container seals intact on arrival?
YES NO N/A * Were shipping containers packed with ice or icepacks?
YES NO N/A * If containers were packed with icepacks, are the icepacks still frozen?
YES NO * Were containers and sample bottles subjected to radiologic scan on arrival?

CHAIN OF CUSTODY SHEET (COC)

YES NO * Is COC present? **If COC is not present, do not proceed before contacting Project Manager.**
Project Manager was contacted _____ (date/time)
YES NO * Is COC signed and dated?
YES NO N/A Is COC an ENCOTEC form?
YES NO * Were all requests for analysis listed on the COC sheet (and/or other included documents) matched with sample bottles found in the shipping container(s)?
YES NO * Is all preservation information on the COC in agreement with the preservation specified on the sample bottles?

SAMPLE BOTTLES

YES NO * Are all sample bottles intact and undamaged?
YES NO Were ENCOTEC (pre-preserved) sample bottles used?
YES NO * Are the sample bottles labeled?
YES NO Were ENCOTEC labels used?
YES NO N/A * Were those samples preserved in the field marked SP (site-preserved)?
YES NO * Is each sample bottle the correct type for the analyses specified on it?
YES NO N/A * Are those sample bottles scheduled for POC, POX, VOA, or TOX without air bubbles?
YES NO * Does each bottle contain sufficient sample for the analyses specified on its label?
YES NO * Is the preservation specified on each bottle label the proper one for the analyses specified?

If a question marked with * has not been answered "YES" please describe the deviation here.
If necessary, continue the description on the reverse of this sheet.

DEVIATION(S): _____

OTHER OBSERVATION(S): _____

EXQ12 1 OF 2 VOA REC'D BROKEN - FROZEN

PROJECT MANAGER RESOLUTION(S): _____

Enter Laboratory Support Group and Project Management authorizing signatures on the reverse of this sheet.

Deviation (con't): _____

Other Observations (con't): _____

P.M. Resolutions (con't): _____

LSG _____ Date 11/04/93
Signature of Laboratory Support Group Leader or his/her Designee

Project Manager _____ Date 12/7/93
Signature of Project Manager or his/her Designee.

SAMPLE LOG-IN SHEET

Lab Name: ENCOTEC

Page 1 Of 1

Received By (print name): ROBERT E. CURBY III

Log-in Date: 11-04-93

Received By (Signiture): REC

Case Number 21170

Sample Delivery Group No.: EXQ02

SAS Number N/A

REMARKS

1. Custody Seal(s) — Present/Absent* — Intact/Broken
2. Custody Seals Nos. — 142203, 142204, 142205, 142206
3. Chain-of-Custody Records — Present/Absent*
4. Traffic Reports or Packing List — Present/Absent*
5. AirBill — Airbill/Sticker — Present/Absent*
6. Airbill No. — 0715180664
7. Sample Tags — Present/Absent* — Sample Tag Nos. — Listed/Not Listed on Chain-of-Custody
8. Sample Condition: — Intact/Broken*/Leaking
9. Does information on custody records, traffic reports, and sample tags agree? — Yes/No*
10. Date Received at Lab: 11-04-93
11. Time Received: 0835

Sample Transfer

Fraction:
Area #:
By:
On:

CORRESPONDING			
EPA SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
EXQ02	5-191202	23944	OK
	5191203		
	5191204		
EXQ03	5191206	23945	
	5191207		
	5191208		
EXQ04	5191209	23946	
	5191210		
	5191211		
EXQ05	5191214	23947	
	5191215		
	5191216		
EXQ06	5191218	23948	
	5191219		
	5191220		
EXQ07	5191222	23949	
	5191223		
	5191224		
EXQ08	5191002	23950	
	5191003		
	5191004		
EXQ09	5191006	23951	
	5191007		
	5191008		
EXQ10	5191010	23952	
	5191011		
	5191012		
EXQ11	5191014	23953	
	5191015		
	5191016	REC'd	
EXQ12	5191017	23954/5	
	5191018		
	5191019		
	5191020		
	5191021		11-04-93

*Contact SMO and attach record of resolution

Reviewed By: TGM

Date: 12/7/93

Logbook No.:

Logbook Page No.:

FORM DC-1

ENVIRONMENTAL
CONTROL
TECHNOLOGY
CORPORATION

3985 RESEARCH PARK DRIVE
ANN ARBOR, MICHIGAN 48108
313/761-1389

November 10, 1993

Ms. Jane Von Hofen
USEPA
Contract Laboratory Program
300 N. Lee Suite 200
Alexandria, VA 22314-2695

RE: USEPA CONTRACT #68-D2-0012
Case #21170

Dear Ms. Von Hofen,

Enclosed please find the traffic reports for case 21170 (SDG EXQ02), delivered to ENCOTEC on November 4, 1993. The sample delivery group information is listed below.

Region V
SDG EXQ02
Chain of Custody numbers: 0353620, 0353621, & 0353622
Sample ID's:

1.	EXQ02	8.	EXQ09
2.	EXQ03	9.	EXQ10
3.	EXQ04	10.	EXQ11
4.	EXQ05	11.	EXQ12
5.	EXQ06	12.	EXQ14 - Trip Blank
6.	EXQ07	13.	EXQ15 - Trip Blank
7.	EXQ08		

Shipment complete.

Please feel free to contact me if you have any questions concerning this sample group.

Sincerely,

ENVIRONMENTAL CONTROL TECHNOLOGY CORPORATION

Robert E. Curby III
CLP Sample Custodian

/rec
Enclosure
#75100

FACSIMILE TRANSMITTAL

ENCOTEC

FAXED 11-18-93

Environmental Control Technology Corporation
3985 Research Park Drive, Ann Arbor, Michigan 48108
Telephone: (313) 761-1389 Fax: (313) 761-1034

DATE: 11-18-93

NO. PAGES (including this one): 8

FROM: ROB CURBY - ENCOTEC

TO: BEVERLY HOLT

FAX NO#: 1-703-519-8625

COMPANY: DYNCORP VIAR

LOCATION: REGION V

REGARDING: CASE 21170 SDG EXQ02

COMMENTS:

PLEASE CALL IF YOU HAVE ANY QUESTIONS.

TRANSMIT CONFIRMATION REPORT

NO.	:	006
RECEIVER	:	703 519 8625
TRANSMITTER	:	ENCOTEC
DATE	:	NOV 18'93 12:08
DURATION	:	04'27
MODE	:	STD
PAGES	:	08
RESULT	:	OK

FACSIMILE TRANSMITTAL

ENCOTEC

FAXED 11-11-93

Environmental Control Technology Corporation
3985 Research Park Drive, Ann Arbor, Michigan 48108
Telephone: (313) 761-1389 Fax: (313) 761-1034

DATE: 11/11/93

NO. PAGES (including this one): 5

FROM: ROB CURBY - ENCOTEC

TO: CHARLES CLAY

FAX NO#: 1-703-519-8625

COMPANY: VIAR

LOCATION: REGION V

REGARDING: CASE 21170

COMMENTS: HARD COPY TO FOLLOW

TRANSMIT CONFIRMATION REPORT

NO.	:	012
RECEIVER	:	703 519 8625
TRANSMITTER	:	ENCOTEC
DATE	:	NOV 11'93 15:57
DURATION	:	03'31
MODE	:	STD
PAGES	:	05
RESULT	:	OK

X Other Records

CASE # 21170
SDG # EXQ02

In Reference to Case No(s):
21170

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM
Telephone Record Log

Date of Call: 11-18-93

Laboratory Name: ENCOTEC
Lab Contact: ROB CURRY

Region: V
Regional Contact: JANE VON HOFEN

Call Initiated By: X Laboratory ____ Region

In reference to data for the following sample number(s):

EXQ14
EXQ15

Summary of Questions/Issues Discussed:

* SAMPLES WERE RECEIVED AS TRIPBLANKS
* NOT LISTED ON TR.
* NO TAGS ON SAMPLES

Summary of Resolution:

* SAMPLER SENT LETTER TO GIVE TRIPBLANKS ID'S
* SMO SENT MIG TO INFORM THAT THE SAMPLES WERE NOT ON TR.

Signature: [illegible] Date: 11-18-93

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

Rec'd 11-15-93

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 21170

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		V	IEPA	11-3-93	FEDERAL EXPRESS

Regional Information: TFA-102

Sampler (Name): Scott R Davis

Airbill Number: 0715180664

Non-Superfund Program

Sampler Signature: Scott Davis

5. Ship To: Encotec
3985 Research Triangle Park Drive
Ann Arbor, Michigan 48108
ATTN: Scott DeJore

Site Name: O'HARA PROPERTY

3. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF			RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

City, State: ST. CHARLES, IL

Site Spill ID

6. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Other (Specify)
6. Ice only
N. Not preserved

7. Sample Description (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Rinsate
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify)

CLP Sample Numbers (from labels)	A Enter # from Box 7	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/ PCB	High only ARO/ TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Enter Appropriate Qualifier for Designated Field QC (B = Blank S = Spike D = Duplicate PE = Perform. Eval. — = Not a QC Sample)
EXQ 02	5	L	G	N	X				5-191202-3	X 106	11/2/93 / 11:05	SD	MEWN02	—
EXQ 02	5	L	G	N		X	X		5-191204	X 106	11/2/93 / 11:05	SD	MEWN02	—
EXQ 03	5	L	G	N		X	X		5-191208	X 105	11/2/93 / 11:30	SD	MEWN03	—
EXQ 03	5	L	G	N	X				5-191206-7	X 105	11/2/93 / 11:30	SD	MEWN03	—
EXQ 04	5	L	G	N		X	X		5-191211	X 104	11/2/93 / 12:40	SD	MEWN04	—
EXQ 04	5	L	G	N	X				5-191209-10	X 104	11/2/93 / 12:40	SD	MEWN04	—
EXQ 05	5	L	G	N	X				5-191214-5	X 101	11/2/93 / 13:50	SD	MEWN05	D
EXQ 05	5	L	G	N		X	X		5-191216	X 101	11/2/93 / 13:50	SD	MEWN05	D
EXQ 06	5	L	G	N	X				5-191218-9	X 102	11/2/93 / 13:50	SD	MEWN06	D
EXQ 06	5	L	G	N		X	X		5-191220	X 102	11/2/93 / 13:50	SD	MEWN06	D

Shipment for Case complete? (Y/N): Y

Page 1 of 2

Sample used for a spike and/or duplicate

Additional Sampler Signatures

Chain of Custody Seal Number: 142205 / 142206

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Peter F Sorensen	11-3-93 16:15	Debi [illegible]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

Split Samples: ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
Blue - Region Copy Pink - SMO Copy White - Lab Copy for Return to Region Yellow - Lab Copy for Return to SMO

DEC 15 1993 L Burnett

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O 353621

Org-1

Organic Sample Collection Requirements

"This form replaces both the individual Traffic Report and EPA Chain of Custody Record. If the sampling team elects to use an alternative chain-of-custody form, cross out the bottom portion of this record and indicate that chain-of-custody information is recorded on an alternative form."

Water Samples	Required Volume	Container Type
Extractable Analysis (Low Level)	1 Gallon	1 X 4-Liter Amber Glass Bottle OR 2 X 80-oz. Amber Glass Bottle OR 4 X 1-Liter Amber Glass Bottles
Extractable Analysis (Medium Level*)	1 Gallon	32-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)	80 ml.	2 X 40-ml. Glass Vials

*All Medium and High Level Samples to be Sealed in Metal Can for Shipment

Soil/Sediment Samples	Required Volume	Container Type
Extractable Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz.Wide-Mouth Glass Jar OR
	240 ml.	2 X 4-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)		2 X 120 ml. Wide-Mouth Glass Vials†

†Soil VOA Vials under study, subject to change, check to ensure proper sealing.

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Extractable and Volatile Analysis	6 oz.	1 X 8-oz.Wide-Mouth Glass Jar

1. Organic Sample Collection Requirements

- Please indicate sample to spike and/or duplicate.
- Ship medium and high concentration samples in paint cans.
- Aqueous samples require one triple-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
- Oily samples must be analyzed under the Special Analytical Services (SAS) program.
- Confirmatory analysis and Special Analytical Services (SAS) parameters may require extra volume; for SAS consult specified SAS methods for requirements.
- Additional sample volume not required for method OLC01.

2. Cooler and Sample Documentation

- Complete all sections of the Traffic Report/Chain of Custody Form - Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
- Please remember to complete the Chain of Custody information on the form.
- Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
- Overlap the lid and bottle of each sample container with custody seals.
- Seal each container in a plastic bag.
- Pack medium and high concentration samples in metal cans.
- Cool low waters to 4° C. Cooling of low soils is optional. Do not cool medium or high concentration waters and soils.
- Separate and surround cooler contents with vermiculite or equivalent packaging.
- Seal the cooler, overlapping the lid and body with custody seals.
- FAX SMO a copy of the Traffic Report/Chain of Custody Form as soon as possible. Send SMO the pink copy of the Traffic Report within 5 days.
- In column E RAS analysis indicate number of sample bottles sent for analysis.

3. Sample Shipment Reporting

- PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)

  Required information:

  Case (and/or SAS) Number
  Date shipped
  Number of samples by concentration and matrix
  Carrier and airbill number
  Next planned shipment

  Leave your name and a number where you can be reached.
- Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
- Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
- CALL IF YOU HAVE ANY QUESTIONS

  USEPA Contract Laboratory Program
  Sample Management Office
  P.O. Box 818
  Alexandria, VA 22313
  Phone: (703) 557-2490
  (703) 684-5678
  FAX: (703) 683-0378

NOV 1 5 REC'D

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 21170

1. Project Code:
Account Code:
2. Region No.: V
Sampling Co.: IEPA
4. Date Shipped: 11-3-93
Carrier: FEDERAL EXPRESS

Regional Information: TFA-102
Sampler (Name): Scott R Davis
Airbill Number: 0715180664

Non-Superfund Program
Sampler Signature: Scott Davis
5. Ship To: Encotec
3985 Research Triangle Park Drive
Ann Arbor, Michigan 48108
ATTN: Scott Devore

Site Name: O'HARA PROPERTY
City, State: ST. CHARLES, FL
Site Spill ID:

3. Type of Activity

	Lead	Pre-Remedial		Remedial	Removal
SF			RIFS		CLEM
PRP		PA	RD		REMA
ST		SSI	RA		REM
FED		LSI	O&M		OIL
			NPLD		UST

6. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Other (Specify)
6. Ice only
N. Not preserved

7. Sample Description (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Rinsate
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify)

CLP Sample Numbers (from labels)	A Enter # from Box 7	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Enter Appropriate Qualifier for Designated Field QC (B = Blank S = Spike D = Duplicate PE = Perform. Eval. — = Not a QC Sample)
EXQ 07	5	L	G	N	X				5-191222-3	X201	11/2/93 13:20	SD	MEWN07	—
EXQ 07	5	L	G	N		X	X		5-191224	X201	11/2/93 13:20	SD	MEWN07	—
EXQ 08	5	L	G	N	X				5-191002-3	X202	11/2/93 14:45	SD	MEWN08	—
EXQ 08	5	L	G	N		X	X		5-191004	X202	11/2/93 14:45	SD	MEWN08	—
EXQ 09	5	L	G	N	X				5-191006-7	X203	11/2/93 15:00	SD	MEWN09	—
EXQ 09	5	L	G	N		X	X		5-191008	X203	11/2/93 15:00	SD	MEWN09	—
EXQ 10	5	L	G	N	X				5-191010-1	X204	11/2/93 15:30	SD	MEWN10	—
EXQ 10	5	L	G	N		X	X		5-191012	X204	11/2/93 15:30	SD	MEWN10	—
EXQ 11	5	L	G	N	X				5-191014-5	X205	11/2/93 16:10	SD	MEWN11	—
EXQ 11	5	L	G	N		X	X		5-191016	X205	11/2/93 16:10	SD	MEWN11	—

Shipment for Case complete? (Y/N): Y
Page 1 of 2
Sample used for a spike and/or duplicate:
Additional Sampler Signatures:
Chain of Custody Seal Number: 142205 / 142206

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Peter T Sorensen	11-3-93 16:15	Debi Lawrence			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

Split Samples: ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
Blue - Region Copy Pink - SMO Copy White - Lab Copy for Return to Region Yellow - Lab Copy for Return to SMO

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O 353620

Org-1

Organic Sample Collection Requirements

"This form replaces both the individual Traffic Report and EPA Chain of Custody Record. If the sampling team elects to use an alternative chain-of-custody form, cross out the bottom portion of this record and indicate that chain-of-custody information is recorded on an alternative form."

Water Samples	Required Volume	Container Type
Extractable Analysis (Low Level)	1 Gallon	1 X 4-Liter Amber Glass Bottle OR 2 X 80-oz. Amber Glass Bottle OR 4 X 1-Liter Amber Glass Bottles
Extractable Analysis (Medium Level*)	1 Gallon	32-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)	80 ml.	2 X 40-ml. Glass Vials

*All Medium and High Level Samples to be Sealed in Metal Can for Shipment

Soil/Sediment Samples	Required Volume	Container Type
Extractable Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar OR
	240 ml.	2 X 4-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)		2 X 120 ml. Wide-Mouth Glass Vials†

†Soil VOA Vials under study, subject to change, check to ensure proper sealing.

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Extractable and Volatile Analysis	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar

1. **Organic Sample Collection Requirements**
   - Please indicate sample to spike and/or duplicate.
   - Ship medium and high concentration samples in paint cans.
   - Aqueous samples require one triple-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
   - Oily samples must be analyzed under the Special Analytical Services (SAS) program.
   - Confirmatory analysis and Special Analytical Services (SAS) parameters may require extra volume; for SAS consult specified SAS methods for requirements.
   - Additional sample volume not required for method OLC01.

2. **Cooler and Sample Documentation**
   - Complete all sections of the Traffic Report/Chain of Custody Form - Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
   - Please remember to complete the Chain of Custody information on the form.
   - Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
   - Overlap the lid and bottle of each sample container with custody seals.
   - Seal each container in a plastic bag.
   - Pack medium and high concentration samples in metal cans.
   - Cool low waters to 4° C. Cooling of low soils is optional. Do not cool medium or high concentration waters and soils.
   - Separate and surround cooler contents with vermiculite or equivalent packaging.
   - Seal the cooler, overlapping the lid and body with custody seals.
   - FAX SMO a copy of the Traffic Report/Chain of Custody Form as soon as possible. Send SMO the pink copy of the Traffic Report within 5 days.
   - In column E RAS analysis indicate number of sample bottles sent for analysis.

3. **Sample Shipment Reporting**
   - PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)
     Required information:
     - Case (and/or SAS) Number
     - Date shipped
     - Number of samples by concentration and matrix
     - Carrier and airbill number
     - Next planned shipment

     Leave your name and a number where you can be reached.
   - Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
   - Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
   - CALL IF YOU HAVE ANY QUESTIONS

     USEPA Contract Laboratory Program
     Sample Management Office
     P.O. Box 818
     Alexandria, VA 22313
     Phone: (703) 557-2490
     (703) 684-5678
     FAX: (703) 683-0378

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 21170

NOV 1 3 REC'D

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		V	IEPA	11-3-93	FEDERAL EXPRESS

Regional Information: TFA-10 2

Sampler (Name): Brad Taylor

Airbill Number: 0715180662

Non-Superfund Program

Sampler Signature: Brad Taylor

5. Ship To: Encotec, 3985 Research Triangle Park Drive, Ann Arbor, Michigan 48108

ATTN: Scott Devore

Site Name: O'HARA PROPERTY

City, State: ST. CHARLES, IL

Site Spill ID

3. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF			RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

6. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Other (Specify) 6. Ice only N. Not preserved

7. Sample Description (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify)

CLP Sample Numbers (from labels)	A Enter # from Box 7	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/ PCB	High only ARO/ TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Enter Appropriate Qualifier for Designated Field QC (B = Blank S = Spike D = Duplicate PE = Perform. Eval. — = Not a QC Sample)
EXQ12	2	L	G	1	X		BC		5-191017	G202	11/3/93 /9:20	BT	MEWN12	—
EXQ12	2 BC	L	G	N		X	X		5-191018-19 BC	G202	11/3/93/9:20	BT	MEWN12	—
EXQ12	2	L	G	N			X		5-191020-1 BC	G202	11/3/93/9:20	BT	MEWN12	—

Shipment for Case complete? (Y/N): Y

Page 1 of 1

Sample used for a spike and/or duplicate

Additional Sampler Signatures

Chain of Custody Seal Number: 142203, 142204

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Peter T Sorensen	11-3-93 16:15	Debi [illegible]			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

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O 353622

Org-1

Organic Sample Collection Requirements

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Extractable and Volatile Analysis	6 oz.	1 X 8-oz.Wide-Mouth Glass Jar

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