US EPA RECORDS CENTER REGION 5
557148

PESTICIDES

DATA

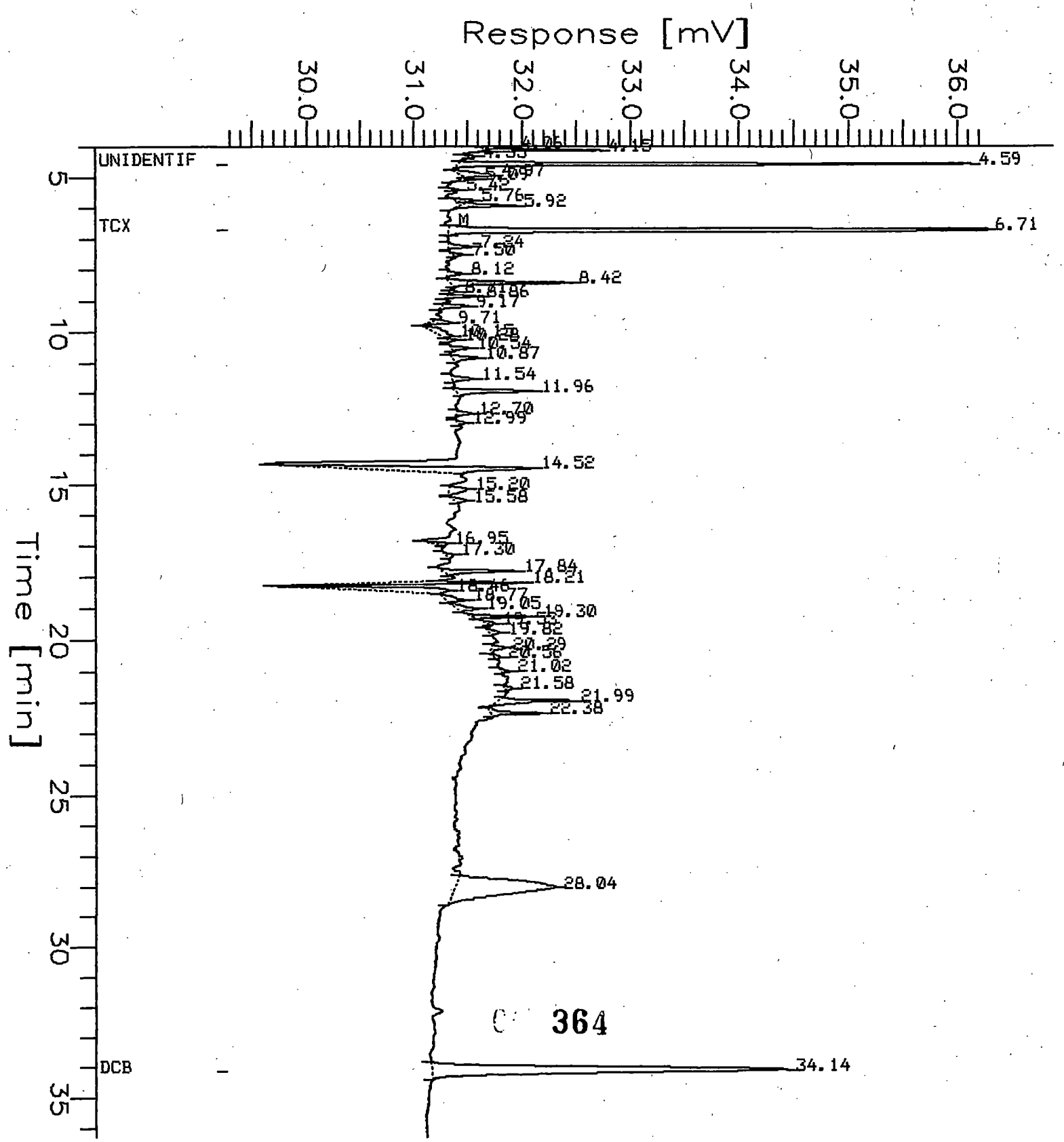
SAMPLE DATA PACKAGE

19026·5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : 967200
FileName : C:\USERS\EPA\8\8B13101.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 29 mV

Sample #: EQK30 Page 1 of 1
Date : 5/28/92 18:52
Time of Injection: 5/21/92 10:08
Low Point : 29.28 mV High Point : 36.28 mV
Plot Scale: 7 mV



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Software Version: 3.2 (10J29)
Sample Name : 967200 Time : 5/27/92 14:17
Sample Number: EQK30 Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : B A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/21/92 10:08
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13101.raw
Result File : c:\users\epa\8\8B13101.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BCL.prc
Sample File : C:\USERS\EPA\8\BMIX.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 47

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
1	4.06	717	250	
2	4.15	3385	1055	
4	4.59	21375	4719	UNIDENTIFIED PEAK
5	4.97	2508	281	
6	5.09	622	149	
8	5.76	509	131	
9	5.92	2784	521	

10	6.71	56873	13702	TCX
11	7.24	1289	227	
13	8.12	841	145	
14	8.42	6462	1108	
16	8.86	1264	289	
17	9.17	1482	250	
18	9.71	1302	196	
19	10.15	2040	89	
21	10.54	936	166	
22	10.87	1665	238	
23	11.54	1354	198	
24	11.96	4414	703	
25	12.70	896	133	
27	14.52	16073	1576	
28	15.20	1833	172	
29	15.58	871	101	
30	16.95	864	118	
32	17.84	3685	665	
33	18.21	6893	1517	
34	18.46	9296	680	
35	18.77	1617	188	
36	19.05	1495	195	
37	19.30	2716	577	
38	19.53	539	71	
39	19.82	717	98	
40	20.29	971	125	
44	21.99	4381	697	
45	22.38	2669	468	
46	28.04	28479	927	
47	34.14	41212	3286	DCB
		237027	36008	

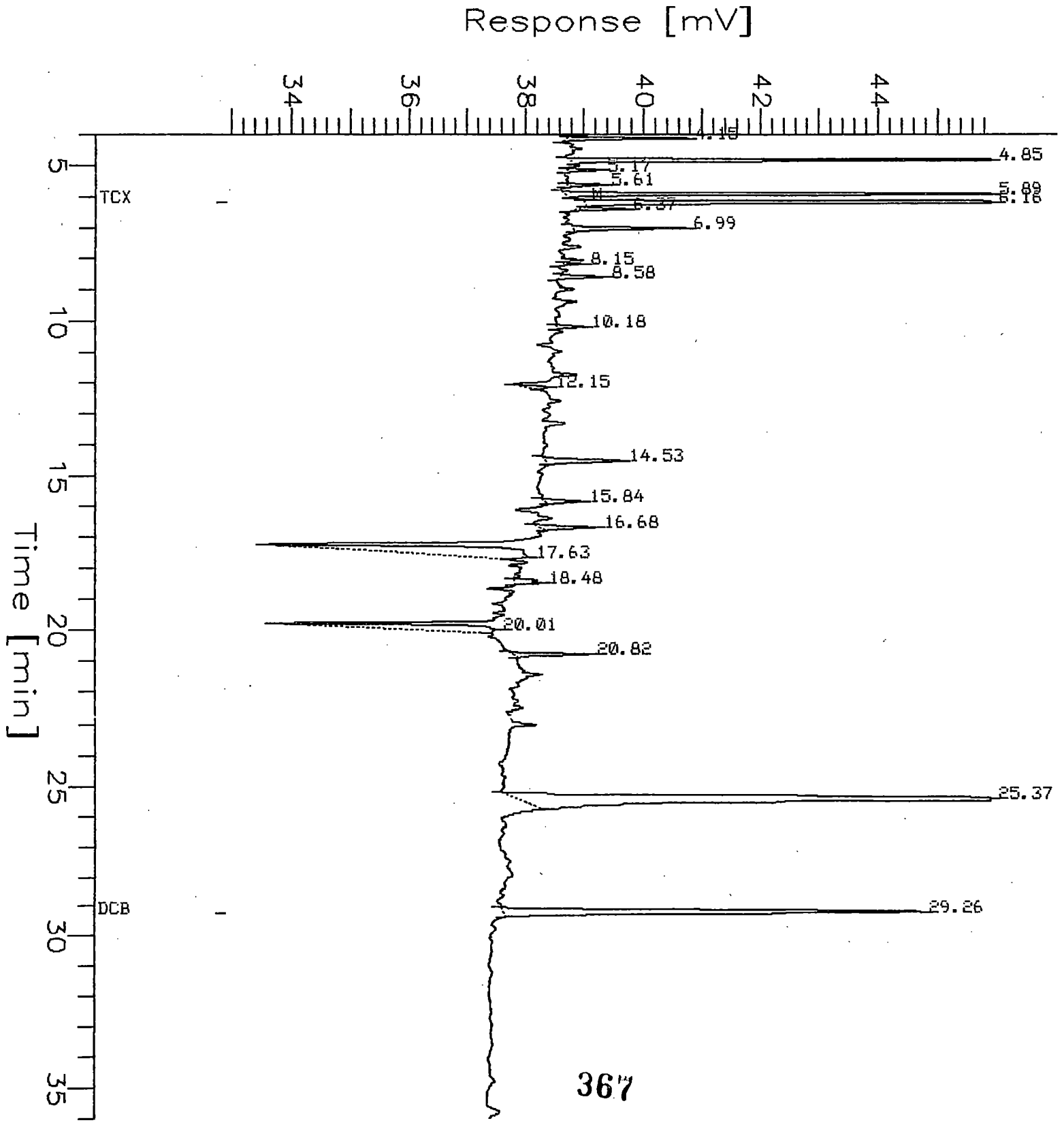
Report Stored in ASCII File: C:\USERS\EPA\8\8B13101.TX0

19026·5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : 967200
FileName : C:\USERS\EPA\8\8A13101.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 33 mV

Sample #: EQK30 Page 1 of 1
Date : 5/27/92 18:03
Time of Injection: 5/21/92 10:08
Low Point : 32.91 mV High Point : 45.91 mV
Plot Scale: 13 mV



Software Version: 3.2 (10J29)
Sample Name : 967200 Time : 5/26/92 19:36
Sample Number: EQK30 Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : A A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/21/92 10:08
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13101.raw
Result File : c:\users\epa\8\8A13101.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\ACL.prc
Sample File : C:\USERS\EPA\8\AMIX.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 21

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
1	4.15	8006	2061	
2	4.85	49413	14348	
3	5.17	2181	538	
4	5.61	2671	611	
5	5.89	40540	10423	
6	6.16	87807	24060	TCX
7	6.37	3142	783	

8	6.99	9463	1899	
9	8.15	1167	327	
10	8.58	3661	753	
11	10.18	2125	450	
12	12.15	2185	347	
13	14.53	9411	1270	
14	15.84	3684	617	
15	16.68	5462	968	
16	17.63	52315	976	
17	18.48	3704	432	
18	20.01	26821	1420	
19	20.82	5674	1292	
20	25.37	134445	11008	
21	29.26	60598	7112	DCB
		514474	81694	

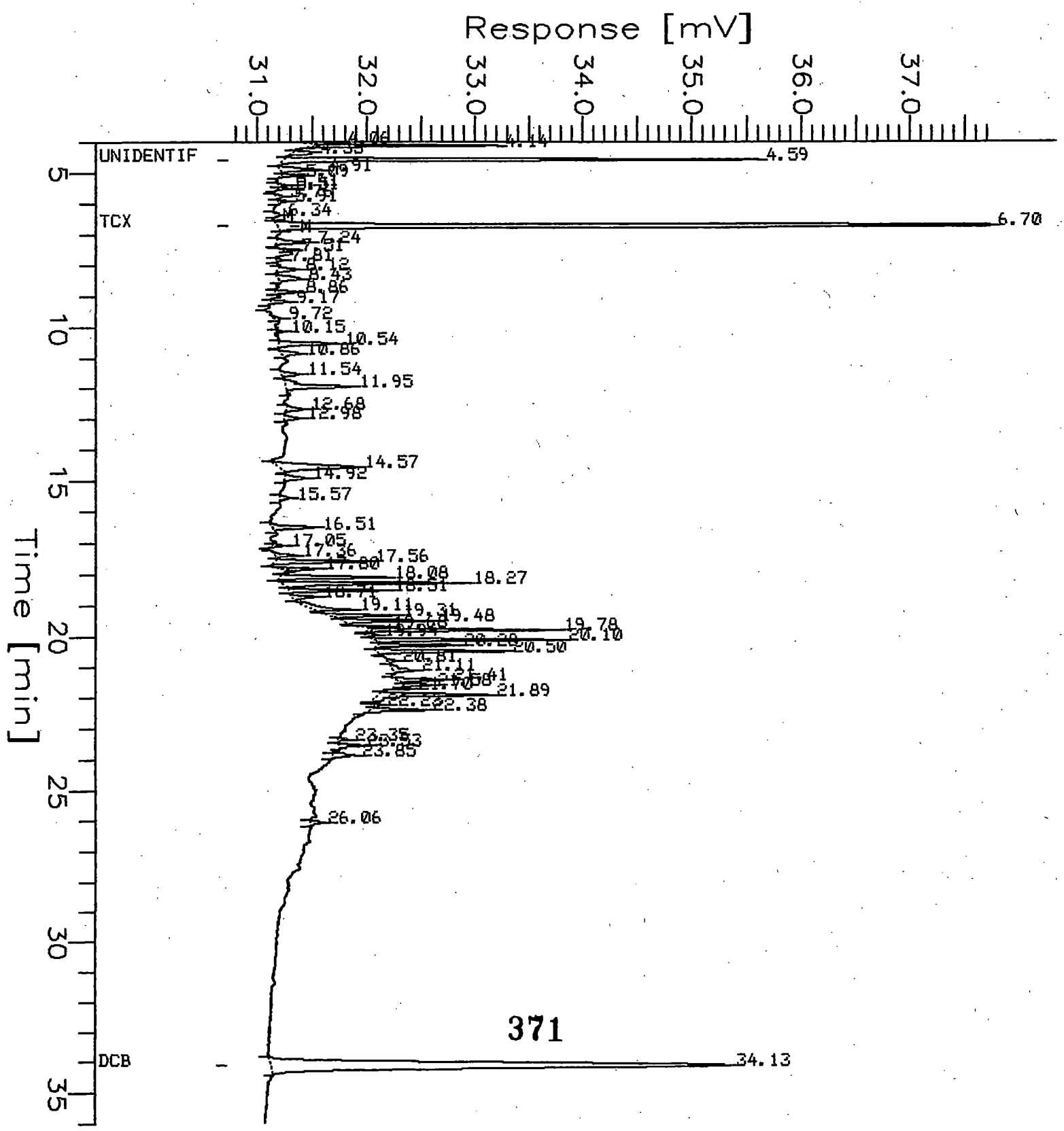
Report Stored in ASCII File: C:\USERS\EPA\8\8A13101.TX0

19026-5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : 967202
FileName : C:\USERS\EPA\8\8B13102.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 31 mV

Sample #: EQK31 Page 1 of 1
Date : 5/28/92 18:54
Time of Injection: 5/21/92 10:50
Low Point : 30.73 mV High Point : 37.73 mV
Plot Scale: 7 mV



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Software Version: 3.2 (10J29)
Sample Name : 967202 Time : 5/27/92 14:17
Sample Number: EQK31 Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : B A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/21/92 10:50
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13102.raw
Result File : c:\users\epa\8\8B13102.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BCL.prc
Sample File : C:\USERS\EPA\8\BMIX.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 61

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
1	4.06	659	233	
2	4.14	5673	1680	
3	4.35	1379	188	
4	4.59	20255	4381	UNIDENTIFIED PEAK
5	4.91	2212	374	
6	5.09	789	151	
12	6.70	72799	17673	TCX

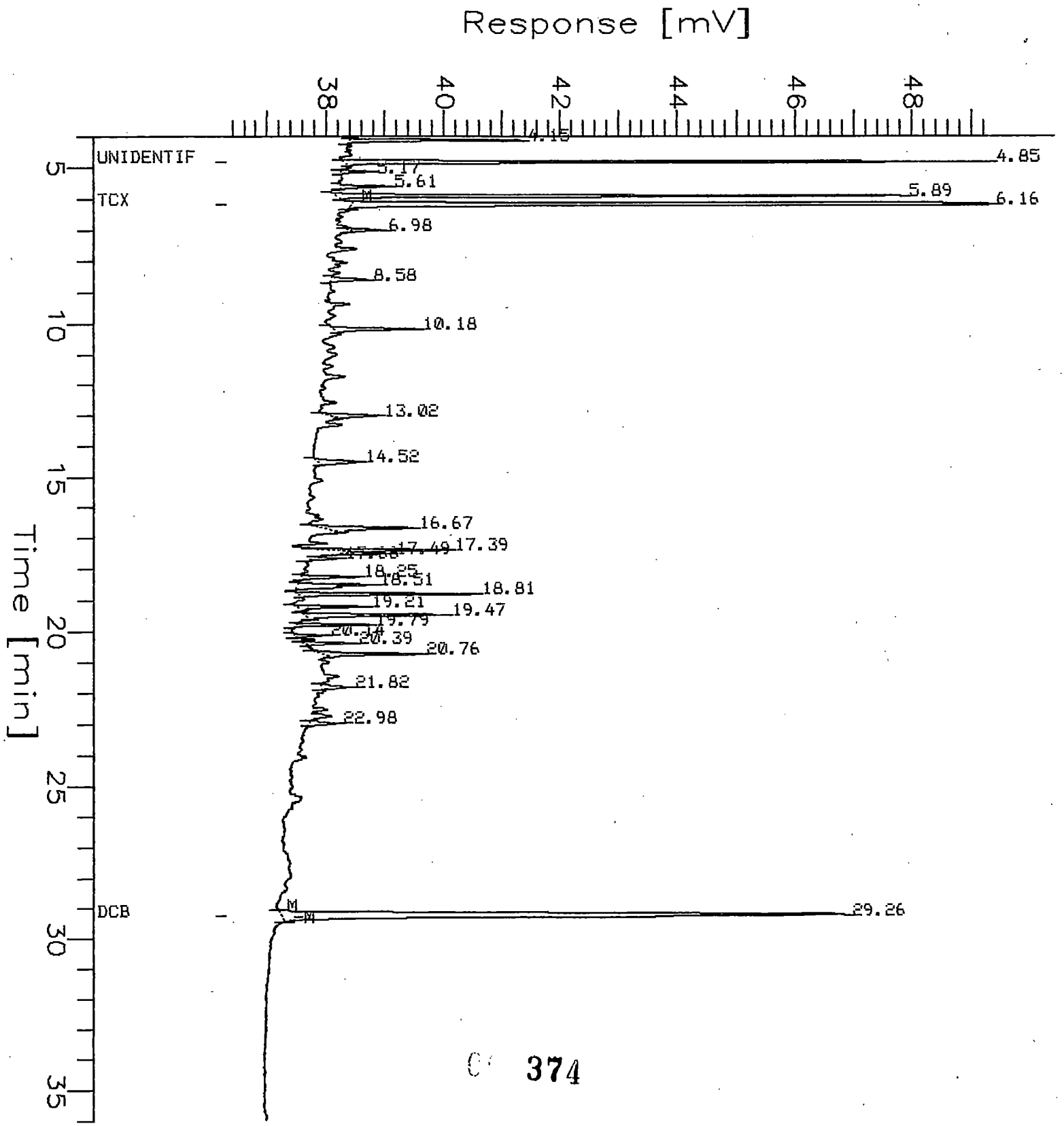
13	7.24	1736	298	
16	8.12	1133	178	
17	8.43	1781	204	
18	8.86	1000	198	
19	9.17	870	159	
20	9.72	503	51	
22	10.54	3110	535	
23	10.86	1143	156	
24	11.54	1061	158	
25	11.95	4531	596	
26	12.68	1110	155	
27	12.98	840	129	
28	14.57	7000	701	
29	14.92	1304	173	
30	15.57	570	86	
31	16.51	2365	377	
33	17.36	980	179	
34	17.56	4194	853	
35	17.80	1455	318	
36	18.08	4922	976	
37	18.27	7907	1687	
38	18.51	3701	897	
39	18.71	1243	215	
40	19.11	2382	339	
41	19.31	2522	594	
42	19.48	3151	821	
43	19.68	509	166	
44	19.78	6745	1706	
46	20.10	7432	1721	
47	20.28	3159	724	
48	20.50	5485	1187	
50	21.11	1286	192	
51	21.41	2033	456	
52	21.58	924	249	
53	21.70	525	146	
54	21.89	6570	1018	
56	22.38	2758	509	
58	23.53	1249	199	
59	23.85	1118	207	
60	26.06	538	88	
61	34.13	52231	4200	DCB
		258839	48481	

Report Stored in ASCII File: C:\USERS\EPA\8\8B13102.TX0

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : 967202
FileName : C:\USERS\EPA\8\8A13102.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 36 mV

Sample #: EQK31 Page 1 of 1
Date : 5/27/92 18:04
Time of Injection: 5/21/92 10:50
Low Point : 36.28 mV High Point : 49.28 mV
Plot Scale: 13 mV



Software Version: 3.2 (10J29)
Sample Name : 967202 Time : 5/26/92 19:37
Sample Number: EQK31 Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : A A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/21/92 10:50
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13102.raw
Result File : c:\users\epa\8\8A13102.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\ACL.prc
Sample File : C:\USERS\EPA\8\AMIX.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp. : 210 C
Detector A : 350 C

Total Number of Peaks Detected: 27

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
1	4.15	10597	2922	
2	4.85	41626	12005	UNIDENTIFIED PEAK
3	5.17	1876	476	
4	5.61	3309	782	
5	5.89	37951	9642	
6	6.16	112541	30811	TCX
7	6.98	2122	525	

8	8.58	3009	585	
9	10.18	6780	1357	
10	13.02	4223	736	
11	14.52	4796	652	
12	16.67	8680	1483	
13	17.39	7288	1836	
14	17.49	2526	752	
15	17.66	1769	431	
16	18.25	4119	920	
17	18.51	8248	1252	
18	18.81	11884	2993	
19	19.21	5193	1122	
20	19.47	10874	2363	
21	19.79	4477	1203	
22	20.14	1813	472	
23	20.39	3289	783	
24	20.76	7793	1606	
25	21.82	2137	439	
26	22.98	2237	428	
27	29.26	83631	9591	DCB
		394789	88168	

Report Stored in ASCII File: C:\USERS\EPA\8\8A13102.TX0

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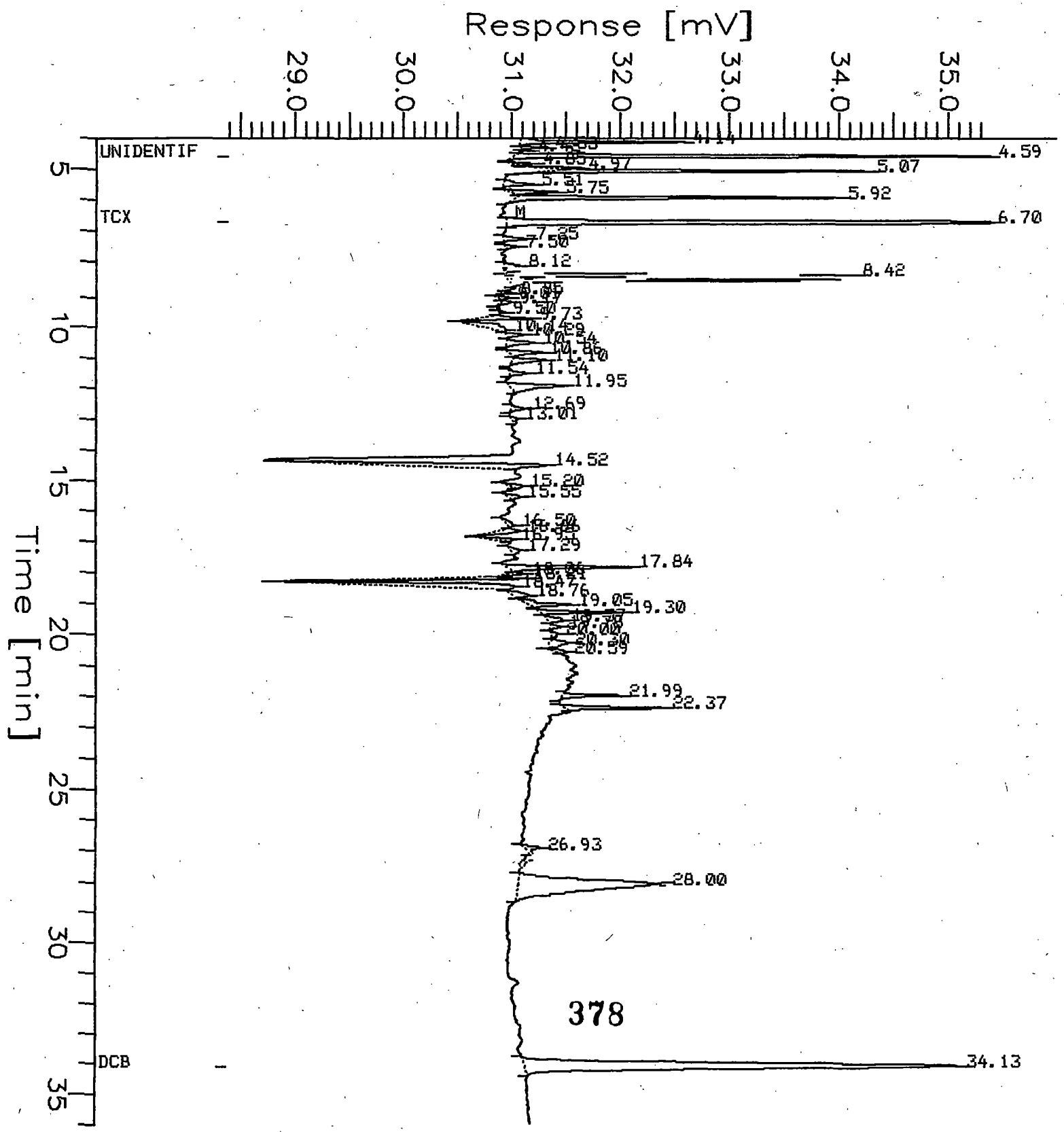
INST: 8 DB-608 0.54mm 1uL inj

Sample Name : 967204
FileName : C:\USERS\EPA\8\8B13103.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 28 mV

Sample #: EQK32 Page 1 of 1
Date : 5/28/92 18:55
Time of Injection: 5/21/92 11:31
Low Point : 28.39 mV High Point : 35.39 mV
Plot Scale: 7 mV



Software Version: 3.2 (10J29)
Sample Name : 967204 Time : 5/27/92 14:17
Sample Number: EQK32 Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : B A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/21/92 11:31
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13103.raw
Result File : c:\users\epa\8\8B13103.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BIAM.prc
Sample File : C:\USERS\EPA\8\BMIX.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 53

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
1	4.14	6444	1526	
2	4.33	747	243	
4	4.59	21886	4806	UNIDENTIFIED PEAK
5	4.85	706	188	
6	4.97	738	222	
7	5.07	12602	2946	
8	5.51	1765	272	

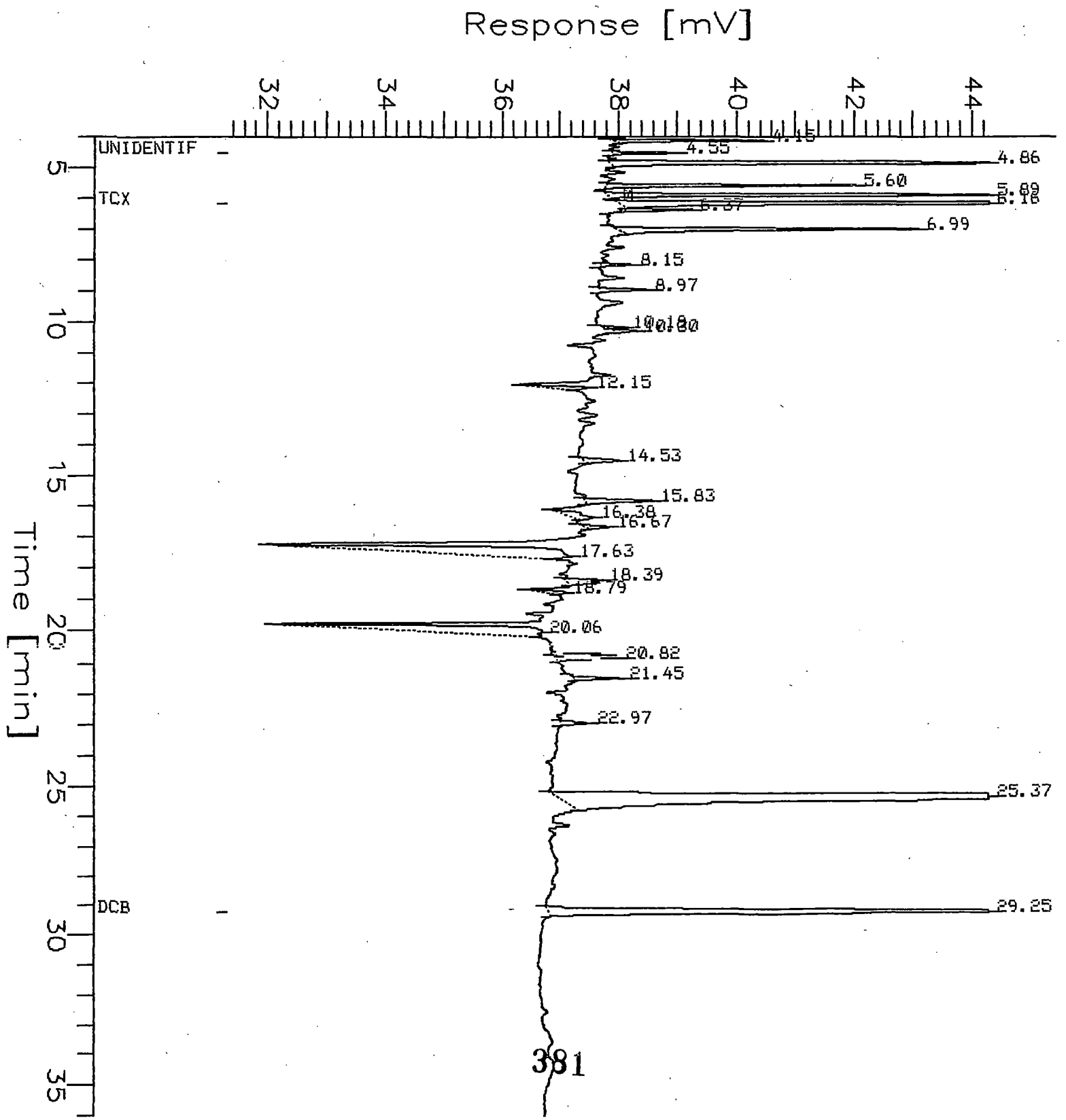
9	5.75	1928	419	
10	5.92	14309	2992	
11	6.70	60476	14472	TCX
12	7.25	1199	225	
13	7.50	549	110	
14	8.12	710	148	
15	8.42	17002	3175	
18	9.17	665	102	
20	9.73	3114	542	
21	10.14	3453	67	
22	10.29	928	158	
23	10.54	1675	258	
24	10.86	1913	297	
25	11.10	2205	308	
26	11.54	1053	161	
27	11.95	4292	515	
28	12.69	850	123	
30	14.52	14229	1338	
31	15.20	788	110	
32	15.55	970	107	
33	16.50	808	51	
34	16.66	1992	206	
35	16.95	1193	164	
36	17.29	850	82	
37	17.84	6531	1143	
38	18.06	755	151	
39	18.21	4496	1084	
40	18.47	13242	911	
41	18.76	1376	131	
42	19.05	2401	386	
43	19.30	3501	771	
44	19.57	1388	148	
45	19.78	657	104	
46	20.00	567	74	
47	20.30	1811	174	
48	20.59	806	87	
49	21.99	2873	540	
50	22.37	4885	918	
51	26.93	1037	137	
52	28.00	42512	1344	
53	34.13	48739	3977	DCB
		319610	48410	

Report Stored in ASCII File: C:\USERS\EPA\8\8B13103.TX0

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : 967204
FileName : C:\USERS\EPA\8\8A13103.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 31 mV

Sample #: EQK32 Page 1 of 1
Date : 5/27/92 18:04
Time of Injection: 5/21/92 11:31
Low Point : 31.30 mV High Point : 44.30 mV
Plot Scale: 13 mV



Software Version: 3.2 (10J29)
Sample Name : 967204 Time : 5/26/92 19:37
Sample Number: EQK32 Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : A A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/21/92 11:31
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13103.raw
Result File : c:\users\epa\8\8A13103.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AIAM.prc
Sample File : C:\USERS\EPA\8\AMIX.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 26

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
1	4.15	8998	2547	
2	4.55	4021	1138	UNIDENTIFIED PEAK
3	4.86	42492	7887	
4	5.60	16951	4227	
5	5.89	40814	10516	
6	6.16	96374	25571	TCX
7	6.37	4752	1213	

8	6.99	27453	5099	
9	8.15	2079	531	
10	8.97	3774	795	
11	10.18	1150	301	
12	10.30	1770	376	
13	12.15	4083	627	
14	14.53	4146	586	
15	15.83	7489	1149	
16	16.38	5455	342	
17	16.67	2103	417	
18	17.63	57854	1081	
19	18.39	5364	621	
20	18.79	2754	368	
21	20.06	45632	1732	
22	20.82	4764	1067	
23	21.45	3945	815	
24	22.97	2615	506	
25	25.37	215514	17556	
26	29.25	79139	9211	DCB
		691485	96275	

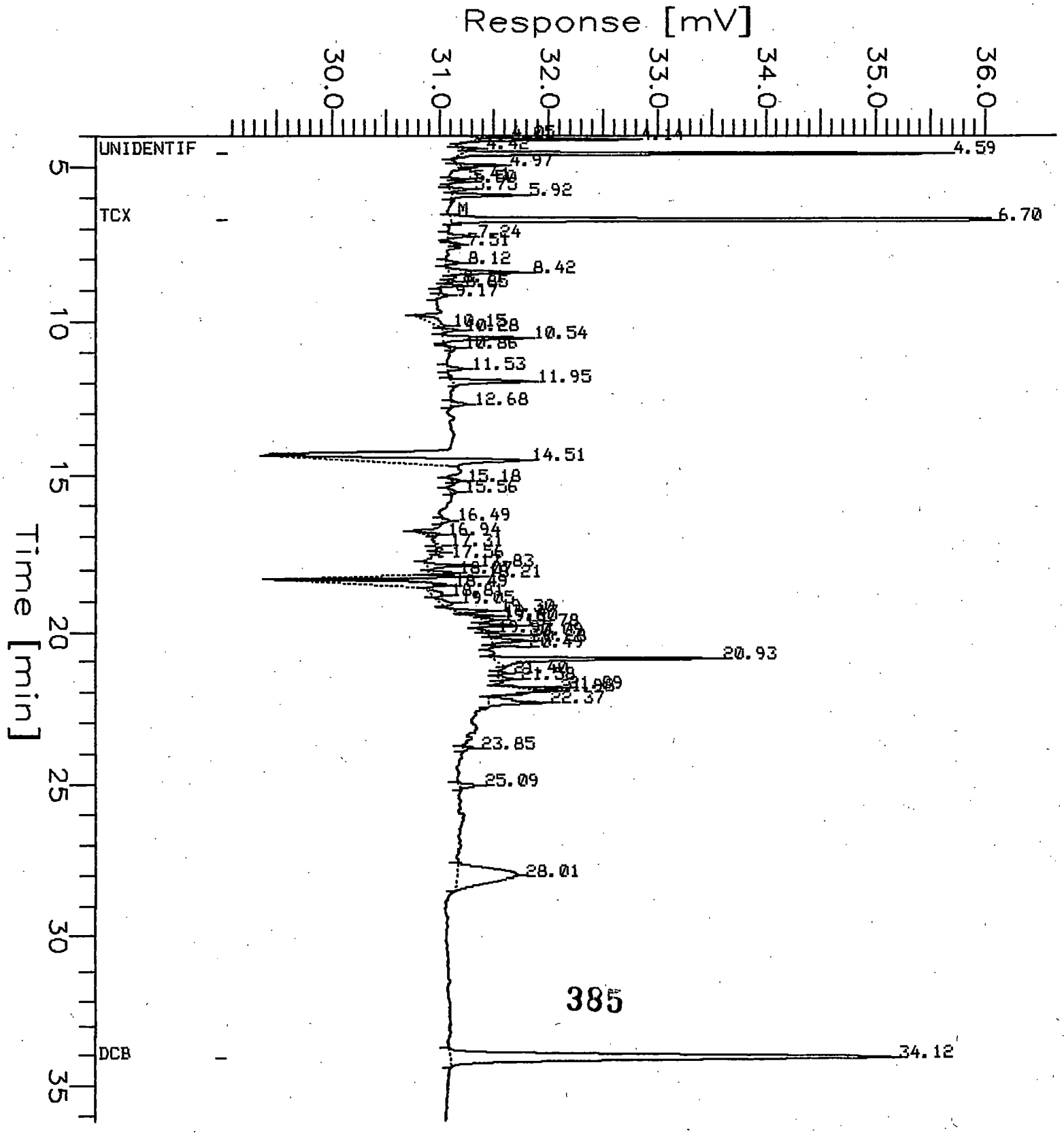
Report Stored in ASCII File: C:\USERS\EPA\8\8A13103.TX0

19026-5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : 967208
FileName : C:\USERS\EPA\8\8B13110.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.20 min
Scale Factor: -1 Plot Offset: 29 mV

Sample #: EQK33 Page 1 of 1
Date : 5/28/92 19:01
Time of Injection: 5/21/92 16:19
Low Point : 29.05 mV High Point : 36.05 mV
Plot Scale: 7 mV



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Software Version: 3.2 (10J29)
Sample Name : 967208 Time : 6/2/92 06:16
Sample Number: EQK33 Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : B A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/21/92 16:19
Delay Time : 4.00 min.
End Time : 36.20 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13110.raw
Result File : c:\users\epa\8\8B13110.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BCL.prc
Sample File : C:\USERS\EPA\8\BMIX.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 55

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
1	4.05	647	234	
2	4.14	4899	1414	
4	4.59	20236	4428	UNIDENTIFIED PEAK
5	4.97	1508	375	
8	5.75	655	145	
9	5.92	3110	631	
10	6.70	48319	11578	TCX

11	7.24	1152	213	
13	8.12	644	137	
14	8.42	4059	690	
16	8.85	606	146	
17	9.17	530	88	
18	10.15	1953	55	
19	10.28	774	143	
20	10.54	4346	762	
22	11.53	972	154	
23	11.95	4391	711	
24	12.68	1004	141	
25	14.51	16900	1552	
28	16.49	512	74	
29	16.94	804	127	
31	17.56	564	112	
32	17.83	2449	421	
33	18.07	970	219	
34	18.21	5259	1124	
35	18.49	9809	618	
36	18.81	1251	94	
37	19.05	1127	116	
38	19.30	1831	345	
39	19.47	690	196	
40	19.60	685	121	
41	19.78	1423	350	
43	20.09	1176	309	
44	20.28	2043	298	
45	20.49	1178	282	
46	20.93	11781	2036	
48	21.58	668	132	
49	21.89	1282	317	
51	22.37	3878	496	
53	25.09	1102	162	
54	28.01	16511	561	
55	34.12	50014	4038	DCB
		233710	36143	

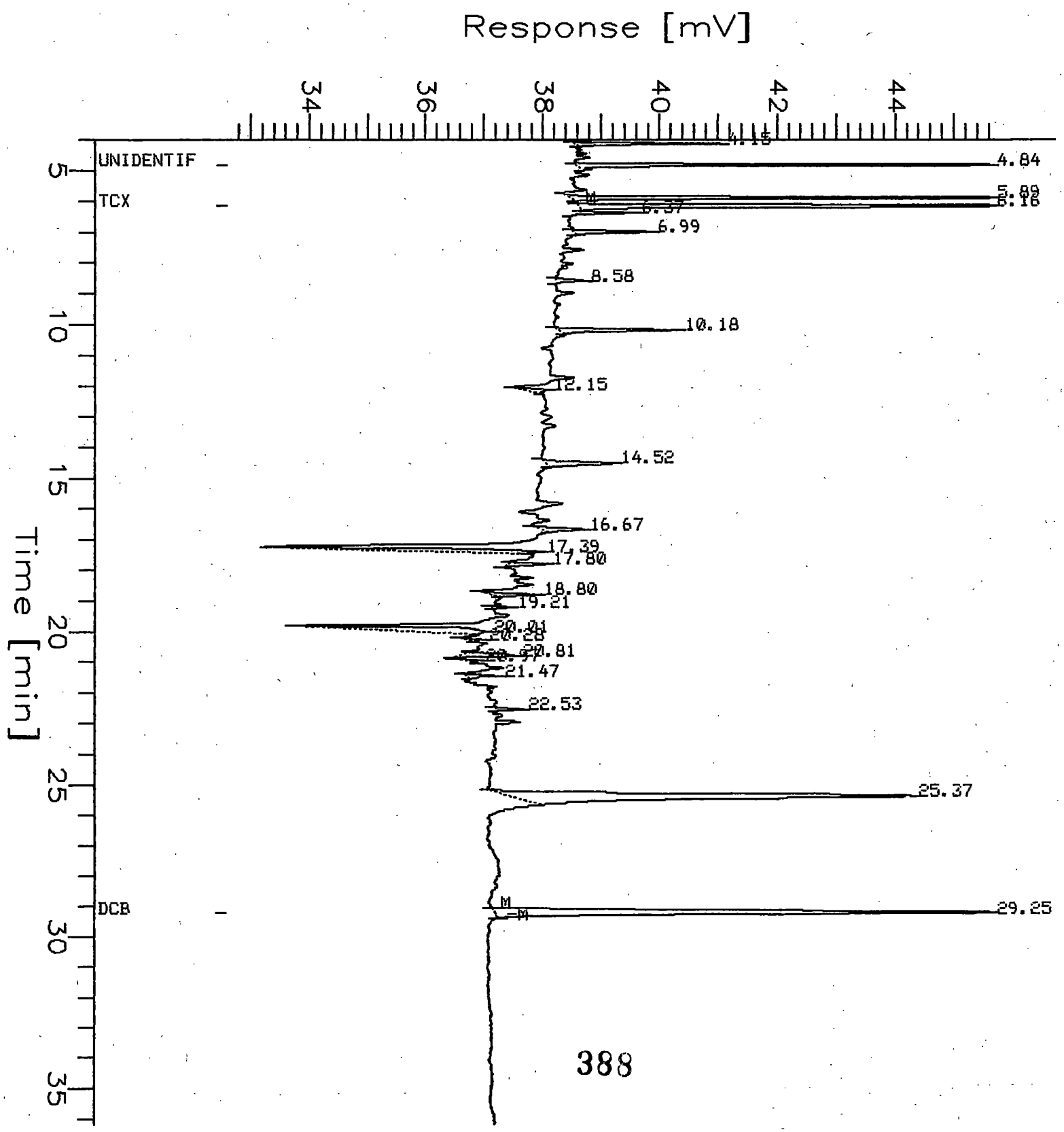
Report Stored in ASCII File: C:\USERS\EPA\8\8B13110.TX0

19026·5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : 967208
FileName : C:\USERS\EPA\8\8A13110.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.20 min
Scale Factor: -1 Plot Offset: 33 mV

Sample #: EQK33 Page 1 of 1
Date : 5/27/92 18:10
Time of Injection: 5/21/92 16:19
Low Point : 32.60 mV High Point : 45.60 mV
Plot Scale: 13 mV



```
==============================================================================
Software Version: 3.2 (10J29)
Sample Name  : 967208                    Time        : 5/26/92  19:41
Sample Number: EQK33                     Study       : 05/16/92 10:55
Operator     : LANE

Instrument   : 08                        Channel : A     A/D mV Range : 1024
AutoSampler  : NONE
Rack/Vial    : 0/0

Interface Serial # :    Data Acquisition Time: 5/21/92  16:19
Delay Time      : 4.00   min.
End Time        : 36.20  min.
Sampling Rate   : 2.5000   pts/sec

Raw Data File   : C:\USERS\EPA\8\8A13110.raw
Result File     : c:\users\epa\8\8A13110.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File    : C:\USERS\EPA\8\AIBM.prc
Sample File     : C:\USERS\EPA\8\AMIX.smp
Sequence File   : c:\users\epa\8\epa813.seq

Inj. Volume     : 1 ul                   Area Reject       : 500.00
Sample Amount   : 1.0000                 Dilution Factor   : 1.00

Noise Threshold: 80          Area Threshold   : 300      Bunch Factor: 2
Multiplier      : 1.0000     Divisor  : 1.0000       Adder  : 0.0000

Instrument Conditions:
/D081,
Capillary GC     -
  Instrument      : 08-L
  Column          : DB-1701
  Column Length   : 30M
  Carrier Gas     : HELIUM
  Flow Rate       : 5.0cc per min
  Split Ratio     : 20cc per min
  Temperature     : Initial column temp 170 C,0 min initial hold,
                    4 degree C/min ramped to 210 C, hold for 5 minutes,
                    then ramped at 15 C/min to 275, hold for 15 min.
  Injection Temp.: 210 C
  Detector A      : 350 C


Total Number of Peaks Detected: 23
==============================================================================
```

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
1	4.15	8936	2458	
2	4.84	36264	10341	UNIDENTIFIED PEAK
3	5.89	37484	9673	
4	6.16	75999	20382	TCX
5	6.37	3764	942	
6	6.99	6042	1303	
7	8.58	2333	456	

8	10.18	10429	2018	
9	12.15	2365	324	
10	14.52	8477	1139	
11	16.67	3846	696	
12	17.39	17147	1419	
13	17.80	3185	625	
14	18.80	3619	719	
15	19.21	1043	288	
16	20.01	20656	1089	
17	20.28	1046	224	
18	20.81	6502	930	
19	20.97	1194	207	
20	21.47	2267	492	
21	22.53	1786	392	
22	25.37	79266	6774	
23	29.25	79655	9167	DCB
		413304	72057	

Report Stored in ASCII File: C:\USERS\EPA\8\8A13110.TX0

STANDARDS DATA PACKAGE

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Instrument ID: D082 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-608 ID: 0.54(mm) Date(s) Analyzed: 05/16/92 05/16/92

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	9.27	9.27	9.27	9.27	9.22	9.32
beta-BHC	11.24	11.24	11.23	11.24	11.19	11.29
delta-BHC	13.22	13.22	13.22	13.22	13.17	13.27
gamma-BHC (Lindane)	10.94	10.94	10.94	10.94	10.89	10.99
Heptachlor	12.59	12.59	12.59	12.59	12.54	12.64
Aldrin	14.60	14.59	14.59	14.59	14.54	14.64
Heptachlor epoxide	17.50	17.50	17.50	17.50	17.43	17.57
Endosulfan I	18.70	18.70	18.70	18.70	18.63	18.77
Dieldrin	19.58	19.58	19.58	19.58	19.51	19.65
4,4'-DDE	19.34	19.33	19.33	19.33	19.26	19.40
Endrin	20.67	20.67	20.67	20.67	20.60	20.74
Endosulfan II	21.22	21.22	21.22	21.22	21.15	21.29
4,4'-DDD	20.92	20.92	20.92	20.92	20.85	20.99
Endosulfan sulfate	22.78	22.77	22.77	22.77	22.70	22.84
4,4'-DDT	21.90	21.90	21.90	21.90	21.83	21.97
Methoxychlor	25.43	25.43	25.43	25.43	25.36	25.50
Endrin ketone	26.31	26.32	26.31	26.31	26.24	26.38
Endrin aldehyde	22.33	22.33	22.33	22.33	22.26	22.40
alpha Chlordane	18.61	18.61	18.60	18.61	18.54	18.68
gamma Chlordane	18.08	18.08	18.08	18.08	18.01	18.15
Tetrachloro-m-xylene	6.71	6.71	6.71	6.71	6.66	6.76
Decachlorobiphenyl	34.15	34.15	34.15	34.15	34.05	34.25

* 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: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Instrument ID: D081 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-1701 ID: 0.55(mm) Date(s) Analyzed: 05/16/92 05/16/92

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	9.24	9.23	9.24	9.24	9.19	9.29
beta-BHC	14.73	14.73	14.73	14.73	14.68	14.78
delta-BHC	16.19	16.19	16.19	16.19	16.14	16.24
gamma-BHC (Lindane)	10.83	10.82	10.82	10.82	10.77	10.87
Heptachlor	11.84	11.83	11.83	11.83	11.78	11.88
Aldrin	13.30	13.30	13.30	13.30	13.25	13.35
Heptachlor epoxide	16.96	16.96	16.96	16.96	16.89	17.03
Endosulfan I	17.96	17.96	17.96	17.96	17.89	18.03
Dieldrin	19.06	19.06	19.06	19.06	18.99	19.13
4,4'-DDE	18.58	18.58	18.58	18.58	18.51	18.65
Endrin	19.60	19.60	19.60	19.60	19.53	19.67
Endosulfan II	20.94	20.94	20.94	20.94	20.87	21.01
4,4'-DDD	20.70	20.70	20.70	20.70	20.63	20.77
Endosulfan sulfate	23.34	23.34	23.34	23.34	23.27	23.41
4,4'-DDT	21.20	21.20	21.20	21.20	21.13	21.27
Methoxychlor	23.15	23.15	23.15	23.15	23.08	23.22
Endrin ketone	25.08	25.08	25.09	25.08	25.01	25.15
Endrin aldehyde	22.25	22.24	22.24	22.24	22.17	22.31
alpha Chlordane	18.30	18.30	18.30	18.30	18.23	18.37
gamma Chlordane	18.13	18.13	18.13	18.13	18.06	18.20
Tetrachloro-m-xylene	6.16	6.16	6.16	6.16	6.11	6.21
Decachlorobiphenyl	29.25	29.26	29.25	29.25	29.15	29.35

* 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.

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Instrument ID: D082 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-608 ID: 0.54(mm) Date(s) Analyzed: 05/16/92 05/16/92

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	2100000	2110000	2990000	2400000	21.3
beta-BHC	1840000	1740000	1940000	1840000	5.4
delta-BHC	1950000	1780000	2120000	1950000	8.7
gamma-BHC (Lindane)	2220000	2240000	2940000	2470000	16.6
Heptachlor	3690000	3600000	3700000	3660000	1.5
Aldrin	3030000	2680000	2780000	2830000	6.4
Heptachlor epoxide	3300000	3060000	2940000	3100000	5.9
Endosulfan I	2370000	2210000	2250000	2280000	3.7
Dieldrin	2000000	2000000	2280000	2090000	7.7
4,4'-DDE	1780000	1640000	1870000	1760000	6.6
Endrin	1520000	1520000	1620000	1550000	3.7
Endosulfan II	1950000	1770000	1850000	1860000	4.9
4,4'-DDD	1100000	1090000	1190000	1130000	4.9
Endosulfan sulfate	1690000	1540000	1540000	1590000	5.4
4,4'-DDT	1080000	1150000	1320000	1180000	10.4
Methoxychlor	666000	733000	760000	720000	6.7
Endrin ketone	1680000	1530000	1630000	1610000	4.7
Endrin aldehyde	1870000	1640000	1520000	1680000	10.6
alpha Chlordane	3110000	2810000	2830000	2920000	5.8
gamma Chlordane	2940000	2690000	2700000	2780000	5.1
Tetrachloro-m-xylene	3540000	3610000	3830000	3660000	4.1
Decachlorobiphenyl	2440000	2600000	2240000	2430000	7.4

* 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: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Instrument ID: D081 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-1701 ID: 0.55(mm) Date(s) Analyzed: 05/16/92 05/16/92

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	3430000	3580000	4970000	3990000	21.3
beta-BHC	2980000	2860000	3010000	2950000	2.7
delta-BHC	2970000	2800000	3460000	3080000	11.1
gamma-BHC (Lindane)	3730000	3890000	5090000	4240000	17.5
Heptachlor	6490000	6350000	6610000	6480000	2.0
Aldrin	4820000	4520000	5000000	4780000	5.1
Heptachlor epoxide	5800000	5280000	5390000	5490000	5.0
Endosulfan I	4070000	4100000	4340000	4170000	3.5
Dieldrin	3550000	3710000	4320000	3860000	10.5
4,4'-DDE	2960000	2860000	3420000	3080000	9.7
Endrin	2710000	2770000	3170000	2880000	8.7
Endosulfan II	3340000	3160000	3340000	3280000	3.2
4,4'-DDD	1810000	1840000	2110000	1920000	8.6
Endosulfan sulfate	2630000	2460000	2560000	2550000	3.4
4,4'-DDT	1400000	1620000	2020000	1680000	18.7
Methoxychlor	1060000	1220000	1260000	1180000	9.0
Endrin ketone	2170000	2030000	2260000	2150000	5.4
Endrin aldehyde	2750000	2590000	2570000	2640000	3.7
alpha Chlordane	5200000	4920000	5030000	5050000	2.8
gamma Chlordane	5080000	4700000	4780000	4850000	4.1
Tetrachloro-m-xylene	5380000	5470000	5630000	5490000	2.3
Decachlorobiphenyl	3800000	4140000	3640000	3860000	6.6

* 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: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Instrument ID: D082 Date(s) Analyzed: 05/16/92 05/16/92

GC Column: DB-608 ID: 0.54(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.500	*1	22.01	21.94	22.08	16200
		*2	24.37	24.30	24.44	42800
		*3	24.64	24.57	24.71	41900
		4	26.22	26.15	26.29	13800
		5				
Aroclor 1016	0.100	*1	9.10	9.03	9.17	115000
		*2	10.83	10.76	10.90	262000
		*3	13.61	13.54	13.68	136000
		4	14.58	14.51	14.65	210000
		5	16.51	16.44	16.58	128000
Aroclor 1221	0.200	*1	5.80	5.73	5.87	70200
		*2	8.24	8.17	8.31	45800
		*3	9.09	9.02	9.16	124000
		4				
		5				
Aroclor 1232	0.100	*1	9.10	9.03	9.17	129000
		*2	10.83	10.76	10.90	145000
		*3	17.57	17.50	17.64	41900
		4	17.81	17.74	17.88	50000
		5				
Aroclor 1242	0.100	*1	9.10	9.03	9.17	94200
		*2	10.84	10.77	10.91	217000
		*3	13.62	13.55	13.69	88900
		4	17.57	17.50	17.64	78800
		5	17.81	17.74	17.88	93400
Aroclor 1248	0.100	*1	10.84	10.77	10.91	100000
		*2	12.60	12.53	12.67	110000
		*3	13.62	13.55	13.69	47800
		4				
		5				
Aroclor 1254	0.100	*1	18.51	18.44	18.58	70900
		*2	19.12	19.05	19.19	68900
		*3	19.32	19.25	19.39	62100
		4				
		5				
Aroclor 1260	0.100	*1	23.36	23.29	23.43	76200
		*2	23.85	23.78	23.92	177000
		*3	25.61	25.54	25.68	48900
		4	25.86	25.79	25.93	18700
		5	26.06	25.99	26.13	82200

* Denotes required peaks

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Instrument ID: D081 Date(s) Analyzed: 05/16/92 05/16/92

GC Column: DB-1701 ID: 0.55(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.500	*1	20.73	20.66	20.80	20000
		*2	20.86	20.79	20.93	29700
		*3	21.02	20.95	21.09	36900
		4	23.18	23.11	23.25	55000
		5				
Aroclor 1016	0.100	*1	8.07	8.00	8.14	152000
		*2	9.48	9.41	9.55	318000
		*3	11.38	11.31	11.45	516000
		4	12.00	11.93	12.07	162000
		5	12.53	12.46	12.60	136000
Aroclor 1221	0.200	*1	5.02	4.95	5.09	75800
		*2	7.31	7.24	7.38	69800
		*3	8.08	8.01	8.15	180000
		4				
		5				
Aroclor 1232	0.100	*1	8.08	8.01	8.15	176000
		*2	9.48	9.41	9.55	149000
		*3	11.38	11.31	11.45	237000
		4	12.00	11.93	12.07	64100
		5				
Aroclor 1242	0.100	*1	8.08	8.01	8.15	123000
		*2	9.48	9.41	9.55	256000
		*3	11.39	11.32	11.46	413000
		4	12.01	11.94	12.08	127000
		5	12.53	12.46	12.60	107000
Aroclor 1248	0.100	*1	11.39	11.32	11.46	262000
		*2	12.53	12.46	12.60	77600
		*3	15.13	15.06	15.20	149000
		4				
		5				
Aroclor 1254	0.100	*1	17.66	17.59	17.73	92600
		*2	19.48	19.41	19.55	162000
		*3	20.39	20.32	20.46	62700
		4				
		5				
Aroclor 1260	0.100	*1	21.96	21.89	22.03	59800
		*2	22.10	22.03	22.17	23300
		*3	22.75	22.68	22.82	304000
		4	23.84	23.77	23.91	59500
		5	24.08	24.01	24.15	195000

* Denotes required peaks

6G

PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column (1): DB-1701 ID: 0.55(mm) Instrument ID (1): D081

EPA Sample No. (Standard 1): RESCAA Lab Sample ID (1): RESCAA

Date Analyzed (1): 05/16/92 Time Analyzed (1): 1136

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.16	100.0
02	Endosulfan I	17.96	96.5
03	gamma-Chlordane	18.13	96.5
04	4,4'-DDE	18.58	100.0
05	Dieldrin	19.06	100.0
06	Methoxychlor	23.15	91.6
07	Endosulfan sulfate	23.34	91.6
08	Endrin ketone	25.08	100.0
09	Decachlorobiphenyl	29.25	

GC Column (2): DB-608 ID: 0.54(mm) Instrument ID (2): D082

EPA Sample No. (Standard 2): RESCAA Lab Sample ID (2): RESCAA

Date Analyzed (2): 05/16/92 Time Analyzed (2): 1136

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.71	100.0
02	gamma-Chlordane	18.08	100.0
03	Endosulfan I	18.70	100.0
04	4,4'-DDE	19.33	100.0
05	Dieldrin	19.58	100.0
06	Endosulfan sulfate	22.77	100.0
07	Methoxychlor	25.43	100.0
08	Endrin ketone	26.31	100.0
09	Decachlorobiphenyl	34.14	

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 19026 - 5

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-608 ID: 0.54(mm) Init. Calib. Date(s): 05/16/92 05/16/92

EPA Sample No. (PIBLK): PIBLKAA Date Analyzed : 05/16/92

Lab Sample ID (PIBLK): PIBLKAA Time Analyzed : 1055

EPA Sample No. (PEM): PEMAA Date Analyzed : 05/16/92

Lab Sample ID (PEM): PEMAA Time Analyzed : 1217

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.27	9.22	9.32	0.009	0.010	10.0
beta-BHC	11.24	11.19	11.29	0.009	0.010	10.0
gamma-BHC (Lindane)	10.94	10.89	10.99	0.009	0.010	10.0
Endrin	20.67	20.60	20.74	0.044	0.050	12.0
4,4'-DDT	21.90	21.83	21.97	0.094	0.100	6.0
Methoxychlor	25.43	25.36	25.50	0.226	0.250	9.6

4,4'-DDT % breakdown (1): 0.8 Endrin % breakdown (1): 3.6

Combined % breakdown (1): 4.4

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: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-608 ID: 0.54(mm) Init. Calib. Date(s): 05/16/92 05/16/92

EPA Sample No. (PIBLK): PIBLKAB Date Analyzed : 05/16/92

Lab Sample ID (PIBLK): PIBLKAB Time Analyzed : 2154

EPA Sample No. (PEM): PEMAB Date Analyzed : 05/16/92

Lab Sample ID (PEM): PEMAB Time Analyzed : 2235

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.27	9.22	9.32	0.009	0.010	10.0
beta-BHC	11.24	11.19	11.29	0.010	0.010	0.0
gamma-BHC (Lindane)	10.95	10.89	10.99	0.009	0.010	10.0
Endrin	20.67	20.60	20.74	0.045	0.050	10.0
4,4'-DDT	21.90	21.83	21.97	0.096	0.100	4.0
Methoxychlor	25.44	25.36	25.50	0.230	0.250	8.0

4,4'-DDT % breakdown (1): 1.1 Endrin % breakdown (1): 6.0

Combined % breakdown (1): 7.1

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: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-608 ID: 0.54(mm) Init. Calib. Date(s): 05/16/92 05/16/92

EPA Sample No. (PIBLK): PIBLKAI Date Analyzed : 05/21/92

Lab Sample ID (PIBLK): PIBLKAI Time Analyzed : 0358

EPA Sample No. (PEM): PEMAF Date Analyzed : 05/21/92

Lab Sample ID (PEM): PEMAF Time Analyzed : 0438

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.27	9.22	9.32	0.009	0.010	10.0
beta-BHC	11.23	11.19	11.29	0.009	0.010	10.0
gamma-BHC (Lindane)	10.94	10.89	10.99	0.009	0.010	10.0
Endrin	20.67	20.60	20.74	0.042	0.050	16.0
4,4'-DDT	21.90	21.83	21.97	0.091	0.100	9.0
Methoxychlor	25.43	25.36	25.50	0.200	0.250	20.0

4,4'-DDT % breakdown (1): 2.7 Endrin % breakdown (1): 17.6

Combined % breakdown (1): 20.3

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: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-608 ID: 0.54(mm) Init. Calib. Date(s): 05/16/92 05/16/92

EPA Sample No. (PIBLK): PIBLKAK Date Analyzed : 05/22/92

Lab Sample ID (PIBLK): PIBLKAK Time Analyzed : 0034

EPA Sample No. (PEM): PEMAG Date Analyzed : 05/22/92

Lab Sample ID (PEM): PEMAG Time Analyzed : 0115

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.26	9.22	9.32	0.009	0.010	10.0
beta-BHC	11.23	11.19	11.29	0.009	0.010	10.0
gamma-BHC (Lindane)	10.93	10.89	10.99	0.009	0.010	10.0
Endrin	20.66	20.60	20.74	0.043	0.050	14.0
4,4'-DDT	21.90	21.83	21.97	0.094	0.100	6.0
Methoxychlor	25.43	25.36	25.50	0.203	0.250	18.8

4,4'-DDT % breakdown (1): 0.7 Endrin % breakdown (1): 9.2

Combined % breakdown (1): 9.9

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: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-1701 ID: 0.55(mm) Init. Calib. Date(s): 05/16/92 05/16/92

EPA Sample No. (PIBLK): PIBLKAA Date Analyzed : 05/16/92

Lab Sample ID (PIBLK): PIBLKAA Time Analyzed : 1055

EPA Sample No. (PEM): PEMAA Date Analyzed : 05/16/92

Lab Sample ID (PEM): PEMAA Time Analyzed : 1217

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.24	9.19	9.29	0.009	0.010	10.0
beta-BHC	14.73	14.68	14.78	0.009	0.010	10.0
gamma-BHC (Lindane)	10.83	10.77	10.87	0.009	0.010	10.0
Endrin	19.60	19.53	19.67	0.046	0.050	8.0
4,4'-DDT	21.20	21.13	21.27	0.103	0.100	3.0
Methoxychlor	23.15	23.08	23.22	0.235	0.250	6.0

4,4'-DDT % breakdown (1): 2.3 Endrin % breakdown (1): 4.4

Combined % breakdown (1): 6.7

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: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-1701 ID: 0.55(mm) Init. Calib. Date(s): 05/16/92 05/16/92

EPA Sample No. (PIBLK): PIBLKAB Date Analyzed : 05/16/92

Lab Sample ID (PIBLK): PIBLKAB Time Analyzed : 2154

EPA Sample No. (PEM): PEMAB Date Analyzed : 05/16/92

Lab Sample ID (PEM): PEMAB Time Analyzed : 2235

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.24	9.19	9.29	0.010	0.010	0.0
beta-BHC	14.73	14.68	14.78	0.010	0.010	0.0
gamma-BHC (Lindane)	10.83	10.77	10.87	0.009	0.010	10.0
Endrin	19.61	19.53	19.67	0.047	0.050	6.0
4,4'-DDT	21.21	21.13	21.27	0.104	0.100	4.0
Methoxychlor	23.15	23.08	23.22	0.233	0.250	6.8

4,4'-DDT % breakdown (1): 2.7 Endrin % breakdown (1): 3.8

Combined % breakdown (1): 6.5

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: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-1701 ID: 0.55(mm) Init. Calib. Date(s): 05/16/92 05/16/92

EPA Sample No. (PIBLK): PIBLKAI Date Analyzed : 05/21/92

Lab Sample ID (PIBLK): PIBLKAI Time Analyzed : 0358

EPA Sample No. (PEM): PEMAF Date Analyzed : 05/21/92

Lab Sample ID (PEM): PEMAF Time Analyzed : 0438

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.23	9.19	9.29	0.009	0.010	10.0
beta-BHC	14.72	14.68	14.78	0.009	0.010	10.0
gamma-BHC (Lindane)	10.82	10.77	10.87	0.009	0.010	10.0
Endrin	19.61	19.53	19.67	0.044	0.050	12.0
4,4'-DDT	21.21	21.13	21.27	0.098	0.100	2.0
Methoxychlor	23.15	23.08	23.22	0.204	0.250	18.4

4,4'-DDT % breakdown (1): 1.8 Endrin % breakdown (1): 4.6

Combined % breakdown (1): 6.4

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: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-1701 ID: 0.55(mm) Init. Calib. Date(s): 05/16/92 05/16/92

EPA Sample No. (PIBLK): PIBLKAK Date Analyzed : 05/22/92

Lab Sample ID (PIBLK): PIBLKAK Time Analyzed : 0034

EPA Sample No. (PEM): PEMAG Date Analyzed : 05/22/92

Lab Sample ID (PEM): PEMAG Time Analyzed : 0115

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.23	9.19	9.29	0.009	0.010	10.0
beta-BHC	14.71	14.68	14.78	0.009	0.010	10.0
gamma-BHC (Lindane)	10.82	10.77	10.87	0.009	0.010	10.0
Endrin	19.60	19.53	19.67	0.044	0.050	12.0
4,4'-DDT	21.20	21.13	21.27	0.097	0.100	3.0
Methoxychlor	23.15	23.08	23.22	0.195	0.250	22.0

4,4'-DDT % breakdown (1): 2.5 Endrin % breakdown (1): 6.8

Combined % breakdown (1): 9.3

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: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-608 ID: 0.54(mm) Init. Calib. Date(s): 05/16/92 05/16/92

EPA Sample No. (PIBLK): PIBLKAC Date Analyzed : 05/17/92

Lab Sample ID (PIBLK): PIBLKAC Time Analyzed : 0815

EPA Sample No. (INDA): INDAMAB Date Analyzed : 05/17/92

Lab Sample ID (INDA): INDAMAB Time Analyzed : 0856

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.28	9.22	9.32	0.0185	0.0200	7.5
gamma-BHC (Lindane)	10.95	10.89	10.99	0.0185	0.0200	7.5
Heptachlor	12.60	12.54	12.64	0.0181	0.0200	9.5
Endosulfan I	18.71	18.63	18.77	0.0184	0.0200	8.0
Dieldrin	19.59	19.51	19.65	0.0370	0.0400	7.5
Endrin	20.68	20.60	20.74	0.0363	0.0400	9.2
4,4'-DDD	20.93	20.85	20.99	0.0362	0.0400	9.5
4,4'-DDT	21.91	21.83	21.97	0.0336	0.0400	16.0
Methoxychlor	25.44	25.36	25.50	0.168	0.200	16.0
Tetrachloro-m-xylene	6.72	6.66	6.76	0.0184	0.0200	8.0
Decachlorobiphenyl	34.16	34.05	34.25	0.0333	0.0400	16.8

EPA Sample No. (INDB): INDBMAB Date Analyzed : 05/17/92

Lab Sample ID (INDB): INDBMAB Time Analyzed : 0937

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	11.24	11.19	11.29	0.0192	0.0200	4.0
delta-BHC	13.22	13.17	13.27	0.0193	0.0200	3.5
Aldrin	14.60	14.54	14.64	0.0195	0.0200	2.5
Heptachlor epoxide	17.50	17.43	17.57	0.0186	0.0200	7.0
4,4'-DDE	19.34	19.26	19.40	0.0398	0.0400	0.5
Endosulfan II	21.23	21.15	21.29	0.0393	0.0400	1.8
Endosulfan sulfate	22.78	22.70	22.84	0.0384	0.0400	4.0
Endrin ketone	26.32	26.24	26.38	0.0400	0.0400	0.0
Endrin aldehyde	22.34	22.26	22.40	0.0389	0.0400	2.8
alpha-Chlordane	18.61	18.54	18.68	0.0195	0.0200	2.5
gamma-Chlordane	18.09	18.01	18.15	0.0194	0.0200	3.0
Tetrachloro-m-xylene	6.71	6.66	6.76	0.0204	0.0200	2.0
Decachlorobiphenyl	34.16	34.05	34.25	0.0381	0.0400	4.8

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: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-608 ID: 0.54(mm) Init. Calib. Date(s): 05/16/92 05/16/92

EPA Sample No. (PIBLK): PIBLKAJ Date Analyzed : 05/21/92

Lab Sample ID (PIBLK): PIBLKAJ Time Analyzed : 1416

EPA Sample No. (INDA): INDAMAE Date Analyzed : 05/21/92

Lab Sample ID (INDA): INDAMAE Time Analyzed : 1457

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.26	9.22	9.32	0.0188	0.0200	6.0
gamma-BHC (Lindane)	10.93	10.89	10.99	0.0187	0.0200	6.5
Heptachlor	12.58	12.54	12.64	0.0192	0.0200	4.0
Endosulfan I	18.69	18.63	18.77	0.0195	0.0200	2.5
Dieldrin	19.58	19.51	19.65	0.0392	0.0400	2.0
Endrin	20.66	20.60	20.74	0.0373	0.0400	6.8
4,4'-DDD	20.92	20.85	20.99	0.0363	0.0400	9.2
4,4'-DDT	21.89	21.83	21.97	0.0369	0.0400	7.8
Methoxychlor	25.42	25.36	25.50	0.171	0.200	14.5
Tetrachloro-m-xylene	6.70	6.66	6.76	0.0188	0.0200	6.0
Decachlorobiphenyl	34.12	34.05	34.25	0.0409	0.0400	2.2

EPA Sample No. (INDB): INDBMAE Date Analyzed : 05/21/92

Lab Sample ID (INDB): INDBMAE Time Analyzed : 1538

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	11.22	11.19	11.29	0.0174	0.0200	13.0
delta-BHC	13.20	13.17	13.27	0.0173	0.0200	13.5
Aldrin	14.58	14.54	14.64	0.0186	0.0200	7.0
Heptachlor epoxide	17.49	17.43	17.57	0.0179	0.0200	10.5
4,4'-DDE	19.33	19.26	19.40	0.0350	0.0400	12.5
Endosulfan II	21.22	21.15	21.29	0.0361	0.0400	9.8
Endosulfan sulfate	22.77	22.70	22.84	0.0341	0.0400	14.8
Endrin ketone	26.30	26.24	26.38	0.0351	0.0400	12.2
Endrin aldehyde	22.32	22.26	22.40	0.0347	0.0400	13.2
alpha-Chlordane	18.60	18.54	18.68	0.0188	0.0200	6.0
gamma-Chlordane	18.07	18.01	18.15	0.0186	0.0200	7.0
Tetrachloro-m-xylene	6.70	6.66	6.76	0.0197	0.0200	1.5
Decachlorobiphenyl	34.13	34.05	34.25	0.0338	0.0400	15.5

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: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-1701 ID: 0.55(mm) Init. Calib. Date(s): 05/16/92 05/16/92

EPA Sample No. (PIBLK): PIBLKAC Date Analyzed : 05/17/92

Lab Sample ID (PIBLK): PIBLKAC Time Analyzed : 0815

EPA Sample No. (INDA): INDAMAB Date Analyzed : 05/17/92

Lab Sample ID (INDA): INDAMAB Time Analyzed : 0856

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.24	9.19	9.29	0.0189	0.0200	5.5
gamma-BHC (Lindane)	10.83	10.77	10.87	0.0190	0.0200	5.0
Heptachlor	11.84	11.78	11.88	0.0186	0.0200	7.0
Endosulfan I	17.97	17.89	18.03	0.0189	0.0200	5.5
Dieldrin	19.06	18.99	19.13	0.0378	0.0400	5.5
Endrin	19.61	19.53	19.67	0.0374	0.0400	6.5
4,4'-DDD	20.71	20.63	20.77	0.0364	0.0400	9.0
4,4'-DDT	21.21	21.13	21.27	0.0362	0.0400	9.5
Methoxychlor	23.16	23.08	23.22	0.171	0.200	14.5
Tetrachloro-m-xylene	6.17	6.11	6.21	0.0188	0.0200	6.0
Decachlorobiphenyl	29.27	29.15	29.35	0.0330	0.0400	17.5

EPA Sample No. (INDB): INDBMAB Date Analyzed : 05/17/92

Lab Sample ID (INDB): INDBMAB Time Analyzed : 0937

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	14.74	14.68	14.78	0.0189	0.0200	5.5
delta-BHC	16.20	16.14	16.24	0.0194	0.0200	3.0
Aldrin	13.31	13.25	13.35	0.0195	0.0200	2.5
Heptachlor epoxide	16.97	16.89	17.03	0.0194	0.0200	3.0
4,4'-DDE	18.59	18.51	18.65	0.0390	0.0400	2.5
Endosulfan II	20.94	20.87	21.01	0.0399	0.0400	0.2
Endosulfan sulfate	23.35	23.27	23.41	0.0403	0.0400	0.8
Endrin ketone	25.09	25.01	25.15	0.0404	0.0400	1.0
Endrin aldehyde	22.25	22.17	22.31	0.0400	0.0400	0.0
alpha-Chlordane	18.31	18.23	18.37	0.0194	0.0200	3.0
gamma-Chlordane	18.14	18.06	18.20	0.0196	0.0200	2.0
Tetrachloro-m-xylene	6.17	6.11	6.21	0.0205	0.0200	2.5
Decachlorobiphenyl	29.27	29.15	29.35	0.0386	0.0400	3.5

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: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-1701 ID: 0.55(mm) Init. Calib. Date(s): 05/16/92 05/16/92

EPA Sample No. (PIBLK): PIBLKAJ Date Analyzed : 05/21/92

Lab Sample ID (PIBLK): PIBLKAJ Time Analyzed : 1416

EPA Sample No. (INDA): INDAMAE Date Analyzed : 05/21/92

Lab Sample ID (INDA): INDAMAE Time Analyzed : 1457

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	9.23	9.19	9.29	0.0193	0.0200	3.5
gamma-BHC (Lindane)	10.82	10.77	10.87	0.0193	0.0200	3.5
Heptachlor	11.83	11.78	11.88	0.0196	0.0200	2.0
Endosulfan I	17.96	17.89	18.03	0.0199	0.0200	0.5
Dieldrin	19.05	18.99	19.13	0.0403	0.0400	0.8
Endrin	19.60	19.53	19.67	0.0377	0.0400	5.8
4,4'-DDD	20.70	20.63	20.77	0.0351	0.0400	12.2
4,4'-DDT	21.20	21.13	21.27	0.0356	0.0400	11.0
Methoxychlor	23.15	23.08	23.22	0.171	0.200	14.5
Tetrachloro-m-xylene	6.16	6.11	6.21	0.0192	0.0200	4.0
Decachlorobiphenyl	29.26	29.15	29.35	0.0406	0.0400	1.5

EPA Sample No. (INDB): INDBMAE Date Analyzed : 05/21/92

Lab Sample ID (INDB): INDBMAE Time Analyzed : 1538

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	14.71	14.68	14.78	0.0178	0.0200	11.0
delta-BHC	16.18	16.14	16.24	0.0177	0.0200	11.5
Aldrin	13.29	13.25	13.35	0.0192	0.0200	4.0
Heptachlor epoxide	16.96	16.89	17.03	0.0189	0.0200	5.5
4,4'-DDE	18.58	18.51	18.65	0.0339	0.0400	15.2
Endosulfan II	20.93	20.87	21.01	0.0370	0.0400	7.5
Endosulfan sulfate	23.34	23.27	23.41	0.0358	0.0400	10.5
Endrin ketone	25.08	25.01	25.15	0.0356	0.0400	11.0
Endrin aldehyde	22.24	22.17	22.31	0.0354	0.0400	11.5
alpha-Chlordane	18.30	18.23	18.37	0.0188	0.0200	6.0
gamma-Chlordane	18.13	18.06	18.20	0.0190	0.0200	5.0
Tetrachloro-m-xylene	6.16	6.11	6.21	0.0203	0.0200	1.5
Decachlorobiphenyl	29.26	29.15	29.35	0.0340	0.0400	15.0

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%

19026 - 5

8D

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-608 ID: 0.54(mm) Init. Calib. Date(s): 05/16/92 05/16/92

Instrument ID: D082

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.71 DCB: 34.15

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PIBLKAA	PIBLKAA	05/16/92	1055	6.69	34.14
02	RESCAA	RESCAA	05/16/92	1136	6.71	34.14
03	PEMAA	PEMAA	05/16/92	1217	6.71	34.14
04	AR1660AA	AR1660AA	05/16/92	1258	6.71	34.15
05	AR1221AA	AR1221AA	05/16/92	1339	6.70	34.14
06	AR1232AA	AR1232AA	05/16/92	1421	6.71	34.15
07	AR1242AA	AR1242AA	05/16/92	1502	6.71	34.15
08	AR1248AA	AR1248AA	05/16/92	1543	6.71	34.15
09	AR1254AA	AR1254AA	05/16/92	1624	6.71	34.15
10	TOXAPHAA	TOXAPHAA	05/16/92	1706	6.71	34.15
11	INDALAA	INDALAA	05/16/92	1747	6.71	34.15
12	INDBLAA	INDBLAA	05/16/92	1829	6.71	34.15
13	INDAMAA	INDAMAA	05/16/92	1910	6.71	34.15
14	INDBMAA	INDBMAA	05/16/92	1951	6.71	34.15
15	INDAHAA	INDAHAA	05/16/92	2032	6.71	34.15
16	INDBHAA	INDBHAA	05/16/92	2113	6.70	34.15
17	PIBLKAB	PIBLKAB	05/16/92	2154	6.71	34.16
18	PEMAB	PEMAB	05/16/92	2235	6.71	34.15
~~19~~	~~PIBLKAC~~	~~PIBLKAC~~	~~05/17/92~~	~~0815~~	~~6.71~~	~~34.16~~
20	INDAMAB	INDAMAB	05/17/92	0856	6.72	34.16
21	INDBMAB	INDBMAB	05/17/92	0937	6.71	34.16
22	PIBLKAD	PIBLKAD	05/17/92	1649	6.71	34.16
23	PEMAC	PEMAC	05/17/92	1730	6.71	34.15
24	PIBLKAE	PIBLKAE	05/18/92	0441	6.71	34.16
25	INDAMAC	INDAMAC	05/18/92	0522	6.71	34.15
26	INDBMAC	INDBMAC	05/18/92	0603	6.71	34.15
27	PIBLKAF	PIBLKAF	05/18/92	1706	6.71	34.15
28	PEMAD	PEMAD	05/18/92	1748	6.71	34.14
29	PIBLKAG	PIBLKAG	05/19/92	1811	6.69	34.12
30	PEMAE	PEMAE	05/19/92	1852	6.70	34.12
31	PIBLKAH	PIBLKAH	05/19/92	2302	6.70	34.14
~~32~~	~~INDAMAD~~	~~INDAMAD~~	~~05/19/92~~	~~2343~~	~~6.71~~	~~34.14~~ NOT USED 6-23-92

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.

410

19026 - 5

8D

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-608 ID: 0.54(mm) Init. Calib. Date(s): 05/16/92 05/16/92

Instrument ID: D082

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.71 DCB: 34.15

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#	
01	INDBMAD	INDBMAD	05/20/92	0024	6.70		34.14		Not used JV 06-03-92
02	PIBLKAI	PIBLKAI	05/21/92	0358	6.70		34.14		
03	PEMAF	PEMAF	05/21/92	0438	6.71		34.14		
04	ZZZZZ	966274	05/21/92	0520	6.71		34.14		
05	ZZZZZ	966276	05/21/92	0601	6.71		34.13		
06	ZZZZZ	966280	05/21/92	0642	6.70		34.14		
07	ZZZZZ	966281MS	05/21/92	0723	6.71		34.13		
08	ZZZZZ	966281MSD	05/21/92	0805	6.70		34.14		
09	ZZZZZ	966282	05/21/92	0846	6.71		34.14		
10	ZZZZZ	966284	05/21/92	0927	6.71		34.14		
11	EQK30	967200	05/21/92	1008	6.71		34.14		
12	EQK31	967202	05/21/92	1050	6.70		34.13		
13	EQK32	967204	05/21/92	1131	6.70		34.13		
14	EQK32MS	967206MS	05/21/92	1212	6.70		34.12		
15	EQK32MSD	967206MSD	05/21/92	1254	6.70		34.13		
16	PIBLKAJ	PIBLKAJ	05/21/92	1416	6.70		34.13		
17	INDAMAE	INDAMAE	05/21/92	1457	6.70		34.12		
18	INDBMAE	INDBMAE	05/21/92	1538	6.70		34.13		
19	EQK33	967208	05/21/92	1619	6.70		34.12		
20	PBLKW1	967210	05/21/92	1700	6.70		34.13		
21	ZZZZZ	966704	05/21/92	1742	6.70		34.12		
22	ZZZZZ	966699	05/21/92	1823	6.70		34.12		
23	ZZZZZ	966700	05/21/92	1904	6.70		34.12		
24	ZZZZZ	966701	05/21/92	1945	6.70		34.12		
25	ZZZZZ	966702	05/21/92	2108	6.70		34.10		
26	PIBLKAK	PIBLKAK	05/22/92	0034	6.70		34.13		
27	PEMAG	PEMAG	05/22/92	0115	6.70		34.13		
28	PIBLKAL	PIBLKAL	05/22/92	1031	6.69		34.14		
29	INDAMAF	INDAMAF	05/22/92	1112	6.71		34.14		
30	INDBMAF	INDBMAF	05/22/92	1203	6.71				Not used 06-03-92

06-03-92 JV

06-03-92 JV

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

411

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-1701 ID: 0.55(mm) Init. Calib. Date(s): 05/16/92 05/16/92

Instrument ID: D081

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.16 DCB: 29.25

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#
01	PIBLKAA	PIBLKAA	05/16/92	1055	6.17		29.26	
02	RESCAA	RESCAA	05/16/92	1136	6.16		29.25	
03	PEMAA	PEMAA	05/16/92	1217	6.16		29.25	
04	AR1660AA	AR1660AA	05/16/92	1258	6.16		29.26	
05	AR1221AA	AR1221AA	05/16/92	1339	6.16		29.25	
06	AR1232AA	AR1232AA	05/16/92	1421	6.16		29.26	
07	AR1242AA	AR1242AA	05/16/92	1502	6.16		29.25	
08	AR1248AA	AR1248AA	05/16/92	1543	6.16		29.26	
09	AR1254AA	AR1254AA	05/16/92	1624	6.16		29.25	
10	TOXAPHAA	TOXAPHAA	05/16/92	1706	6.16		29.25	
11	INDALAA	INDALAA	05/16/92	1747	6.16		29.25	
12	INDBLAA	INDBLAA	05/16/92	1829	6.16		29.26	
13	INDAMAA	INDAMAA	05/16/92	1910	6.16		29.26	
14	INDBMAA	INDBMAA	05/16/92	1951	6.16		29.26	
15	INDAHAA	INDAHAA	05/16/92	2032	6.16		29.25	
16	INDBHAA	INDBHAA	05/16/92	2113	6.16		29.26	
17	PIBLKAB	PIBLKAB	05/16/92	2154	6.16		29.26	
18	PEMAB	PEMAB	05/16/92	2235	6.16		29.26	
~~19~~	~~PIBLKAC~~	~~PIBLKAC~~	~~05/17/92~~	~~0815~~	~~6.17~~		~~29.27~~	
20	INDAMAB	INDAMAB	05/17/92	0856	6.17		29.27	
21	INDBMAB	INDBMAB	05/17/92	0937	6.17		29.27	
22	PIBLKAD	PIBLKAD	05/17/92	1649	6.17		29.27	
23	PEMAC	PEMAC	05/17/92	1730	6.17		29.27	
24	PIBLKAE	PIBLKAE	05/18/92	0441	6.17		29.27	
25	INDAMAC	INDAMAC	05/18/92	0522	6.17		29.27	
26	INDBMAC	INDBMAC	05/18/92	0603	6.16		29.27	
27	PIBLKAF	PIBLKAF	05/18/92	1706	6.16		29.27	
28	PEMAD	PEMAD	05/18/92	1748	6.16		29.27	
29	PIBLKAG	PIBLKAG	05/19/92	1811	6.16		29.25	
30	PEMAE	PEMAE	05/19/92	1852	6.16		29.25	
31	PIBLKAH	PIBLKAH	05/19/92	2302	6.16		29.26	
~~32~~	~~INDAMAD~~	~~INDAMAD~~	~~05/19/92~~	~~2343~~	~~6.16~~		~~29.26~~	

NOT USED WR 6-23-92

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.

19026 · 5

8D

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

GC Column: DB-1701 ID: 0.55(mm) Init. Calib. Date(s): 05/16/92 05/16/92

Instrument ID: D081

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.16 DCB: 29.25

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	#	DCB RT	#	
01	~~INDBMAD~~	~~INDBMAD~~	~~05/20/92~~	~~0024~~	~~6.16~~		~~29.26~~		Not used WR 06-03-92
02	PIBLKAI	PIBLKAI	05/21/92	0358	6.16		29.27		
03	PEMAF	PEMAF	05/21/92	0438	6.16		29.27		
04	ZZZZZ	966274	05/21/92	0520	6.16		29.26		
05	ZZZZZ	966276	05/21/92	0601	6.16		29.26		
06	ZZZZZ	966280	05/21/92	0642	6.16		29.26		
07	ZZZZZ	966281MS	05/21/92	0723	6.16		29.25		
08	ZZZZZ	966281MSD	05/21/92	0805	6.16		29.26		
09	ZZZZZ	966282	05/21/92	0846	6.17		29.26		
10	ZZZZZ	966284	05/21/92	0927	6.16		29.27		
11	EQK30	967200	05/21/92	1008	6.16		29.26		
12	EQK31	967202	05/21/92	1050	6.16		29.26		
13	EQK32	967204	05/21/92	1131	6.16		29.25		
14	EQK32MS	967206MS	05/21/92	1212	6.16		29.25		
15	EQK32MSD	967206MSD	05/21/92	1254	6.16		29.25		
16	PIBLKAJ	PIBLKAJ	05/21/92	1416	6.16		29.26		
17	INDAMAE	INDAMAE	05/21/92	1457	6.16		29.26		
18	INDBMAE	INDBMAE	05/21/92	1538	6.16		29.26		
19	EQK33	967208	05/21/92	1619	6.16		29.25		
20	PBLKW1	967210	05/21/92	1700	6.16		29.25		
21	ZZZZZ	966704	05/21/92	1742	6.16		29.25		
22	ZZZZZ	966699	05/21/92	1823	6.16		29.25		
23	ZZZZZ	966700	05/21/92	1904	6.16		29.24		
24	ZZZZZ	966701	05/21/92	1945	6.16		29.24		
25	ZZZZZ	966702	05/21/92	2108	6.16		29.24		
26	PIBLKAK	PIBLKAK	05/22/92	0034	6.16		29.26		
27	PEMAG	PEMAG	05/22/92	0115	6.16		29.26		
~~28~~	~~PIBLKAL~~	~~PIBLKAL~~	~~05/22/92~~	~~1031~~	~~6.17~~		~~29.28~~		06-03-92 JL
~~29~~	~~INDAMAF~~	~~INDAMAF~~	~~05/22/92~~	~~1112~~	~~6.16~~		~~29.27~~		Not used WR 06-03-92
~~30~~	~~INDBMAF~~	~~INDBMAF~~	~~05/22/92~~	~~1203~~	~~6.16~~		~~29.28~~		

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.

413

9A

PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Florisil Cartridge Lot Number: 157AC-8 Date of Analysis: 04/10/92

GC Column(1): DB-608 ID: 0.54(mm) GC Column(2): DB-1701 ID: 0.55(mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
alpha-BHC	0.010	0.00837	83.7	80-120
gamma-BHC (Lindane)	0.010	0.00959	95.9	80-120
Heptachlor	0.010	0.00911	91.1	80-120
Endosulfan I	0.010	0.0104	104.0	80-120
Dieldrin	0.020	0.0207	103.5	80-120
Endrin	0.020	0.0227	113.5	80-120
4,4'-DDD	0.020	0.0220	110.0	80-120
4,4'-DDT	0.020	0.0195	97.5	80-120
Methoxychlor	0.100	0.102	102.0	80-120
Tetrachloro-m-xylene	0.010	0.00721	72.1*	80-120
Decachlorobiphenyl	0.020	0.0202	101.0	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:

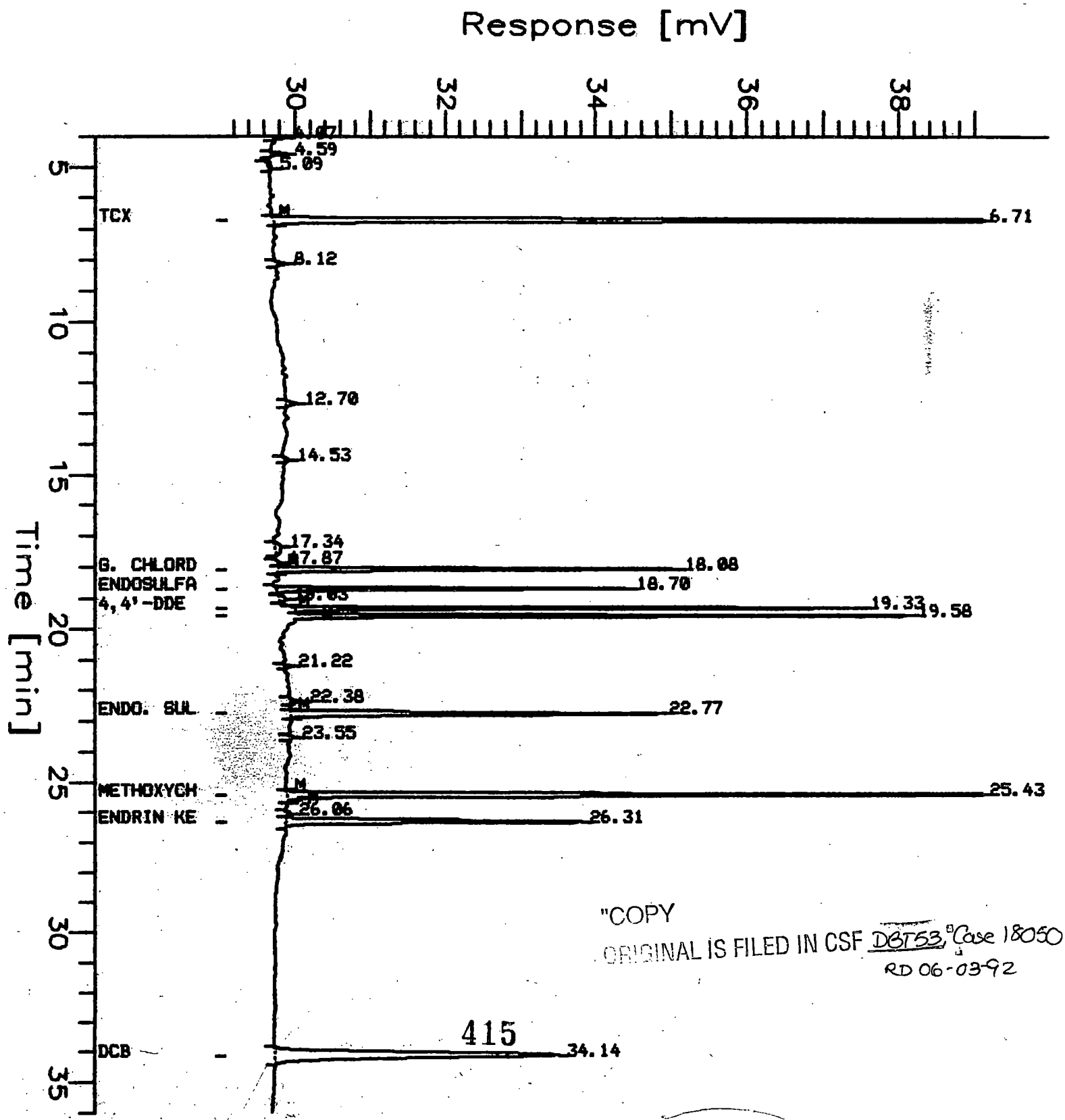
	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLKW1	967210	05/21/92	05/21/92
02	EQK30	967200	05/21/92	05/21/92
03	EQK31	967202	05/21/92	05/21/92
04	EQK32	967204	05/21/92	05/21/92
05	EQK33	967208	05/21/92	05/21/92
06	EQK32MS	967206MS	05/21/92	05/21/92
07	EQK32MSD	967206MSD	05/21/92	05/21/92

19026·5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : RESCAA
FileName : C:\USERS\EPA\8\8013002.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 29 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:31
Time of Injection: 5/16/92 11:36
Low Point : 29.11 mV High Point : 39.11 mV
Plot Scale: 10 mV



"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

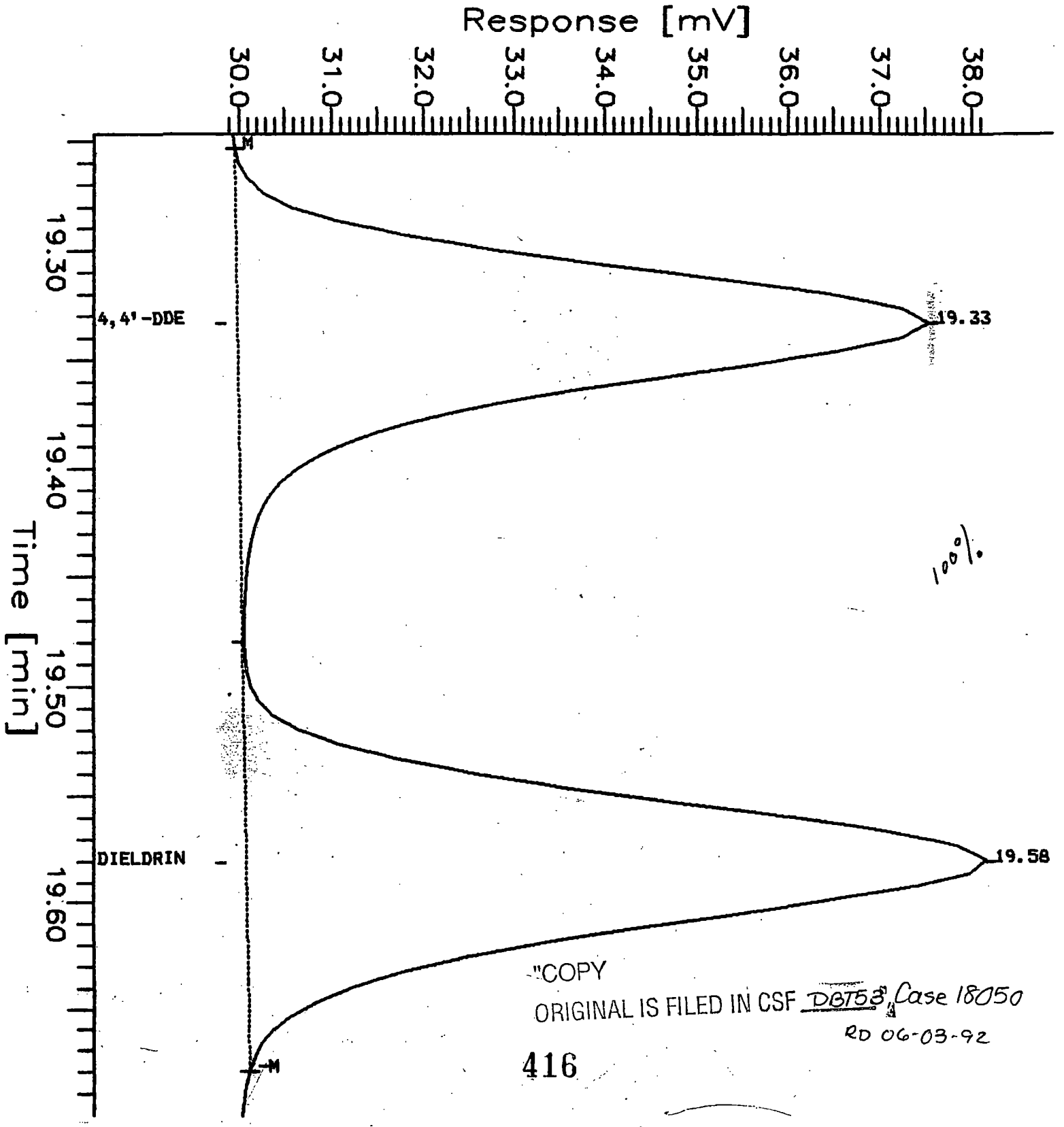
415

19026·5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : RESCAA
FileName : C:\USERS\EPA\8\8B13002.raw
Method : EPA8B.ins
Start Time : 19.25 min End Time : 19.70 min
Scale Factor: 0 Plot Offset: 30 mV

Sample #: Page 1 of 1
Date : 5/20/92 09:39
Time of Injection: 5/16/92 11:36
Low Point : 29.86 mV High Point : 38.16 mV
Plot Scale: 8 mV



COPY
ORIGINAL IS FILED IN CSF DBT53 Case 18050
RD 06-03-92

Software Version: 3.2 (10J29)
Sample Name : RESCAA
Sample Number:
Operator : LANE

Time : 5/17/92 16:36
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 11:36
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13002.raw
Result File : c:\users\epa\8\8B13002.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BR.prc
Sample File : C:\USERS\EPA\8\BR.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBT53"
Case 18050
RD06-03-92

Total Number of Peaks Detected: 22

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.07	694	169		0.0
2	4.59	1021	216		0.0
3	5.09	873	41		0.0
4	6.71	66445	16018	TCX	20.0
5	8.12	647	134		0.0
6	12.70	921	128		0.0
8	17.34	1624	92		0.0

10	18.08	25395	5286	G. CHLORDANE	10.0
11	18.70	21328	4678	ENDOSULFAN I	10.0
12	19.03	781	80		0.0
13	19.33	29218	7537	4,4'-DDE	20.0
14	19.58	33591	8080	DIELDRIN	20.0
16	22.38	943	154		0.0
17	22.77	27277	4911	ENDO. SULFATE	20.0
19	25.43	67447	9944	METHOXYCHLOR	100.0
21	26.31	29432	3929	ENDRIN KETONE	20.0
22	34.14	45746	3767	DCB	20.0
		353382	65163		

Report Stored in ASCII File: C:\USERS\EPA\8\8B13002.TX0

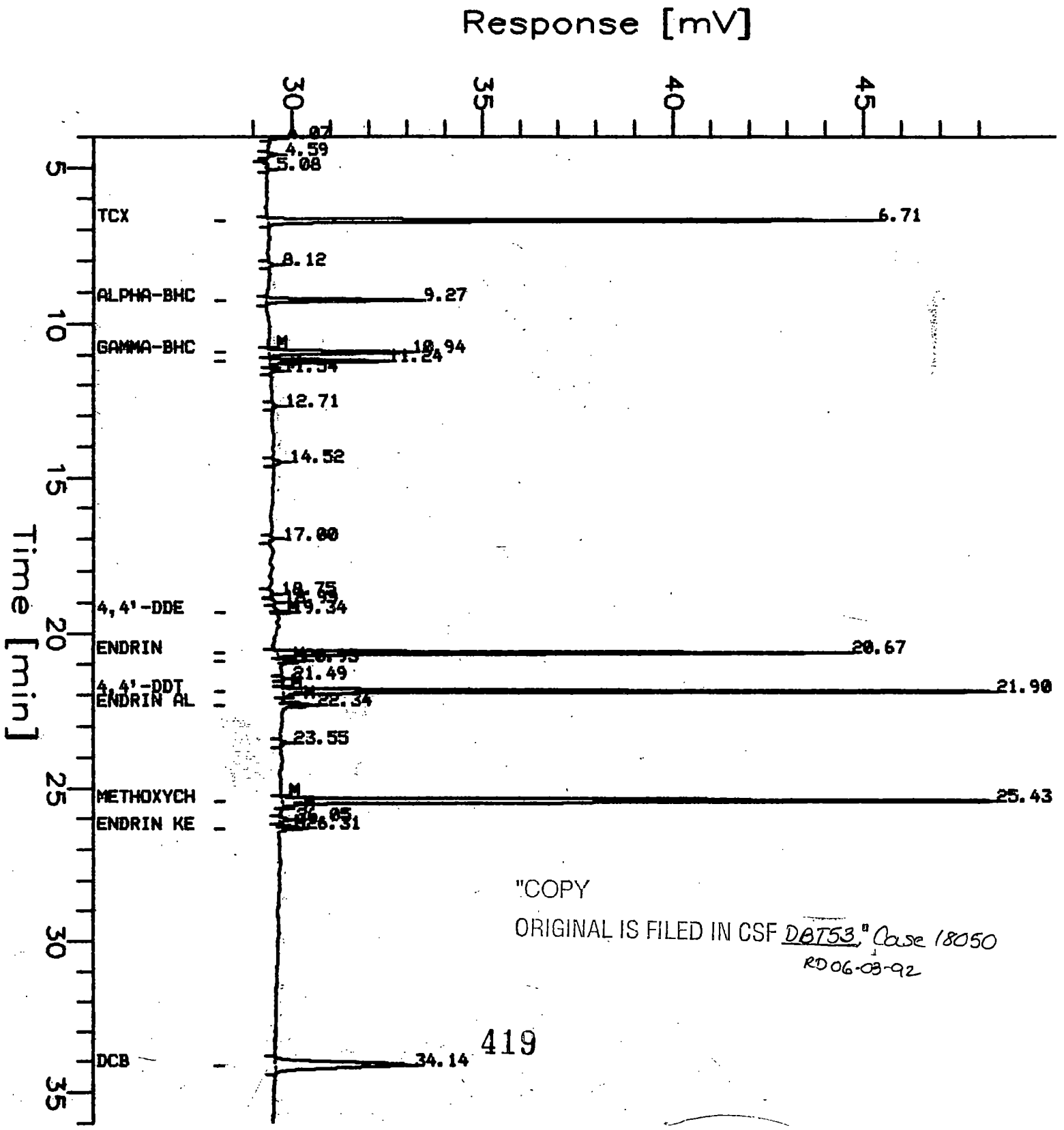
"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

19026.5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : PEMAA
FileName : C:\USERS\EPA\8\8813003.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 28 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:32
Time of Injection: 5/16/92 12:17
Low Point : 28.26 mV High Point : 48.26 mV
Plot Scale: 20 mV



"COPY
ORIGINAL IS FILED IN CSF DBT53," Case 18050
RD 06-03-92

Software Version: 3.2 (10J29)
Sample Name : PEMAA
Sample Number:
Operator : LANE

Time : 5/17/92 16:36
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 12:17
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13003.raw
Result File : c:\users\epa\8\8B13003.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BP.prc
Sample File : C:\USERS\EPA\8\BP.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBT53, "Case 18050
RD 06-03-92

Total Number of Peaks Detected: 25

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.07	956	232		0.0
2	4.59	1189	244		0.0
3	5.08	1306	58		0.0
4	6.71	65695	15817	TCX	20.0
5	8.12	644	134		0.0
6	9.27	19495	3876	ALPHA-BHC	10.0
7	10.94	20403	3521	GAMMA-BHC	10.0

8	11.24	16425	2872	BETA-BHC	10.0
9	11.54	662	106		0.0
10	12.71	712	101		0.0
11	14.52	1595	197		0.0
12	17.00	677	106		0.0
13	18.75	752	61		0.0
16	20.67	67363	14863	ENDRIN	50.0
17	20.93	881	231	4,4'-DDD	0.0
19	21.90	108230	23384	4,4'-DDT	100.0
20	22.34	2027	442	ENDRIN ALDEHYDE	0.0
21	23.55	745	115		0.0
22	25.43	165837	25295	METHOXYCHLOR	250.0
23	26.05	1443	202		0.0
24	26.31	932	212	ENDRIN KETONE	0.0
25	34.14	41669	3432	DCB	20.0
		519637	95497		

Report Stored in ASCII File: C:\USERS\EPA\8\8B13003.TX0

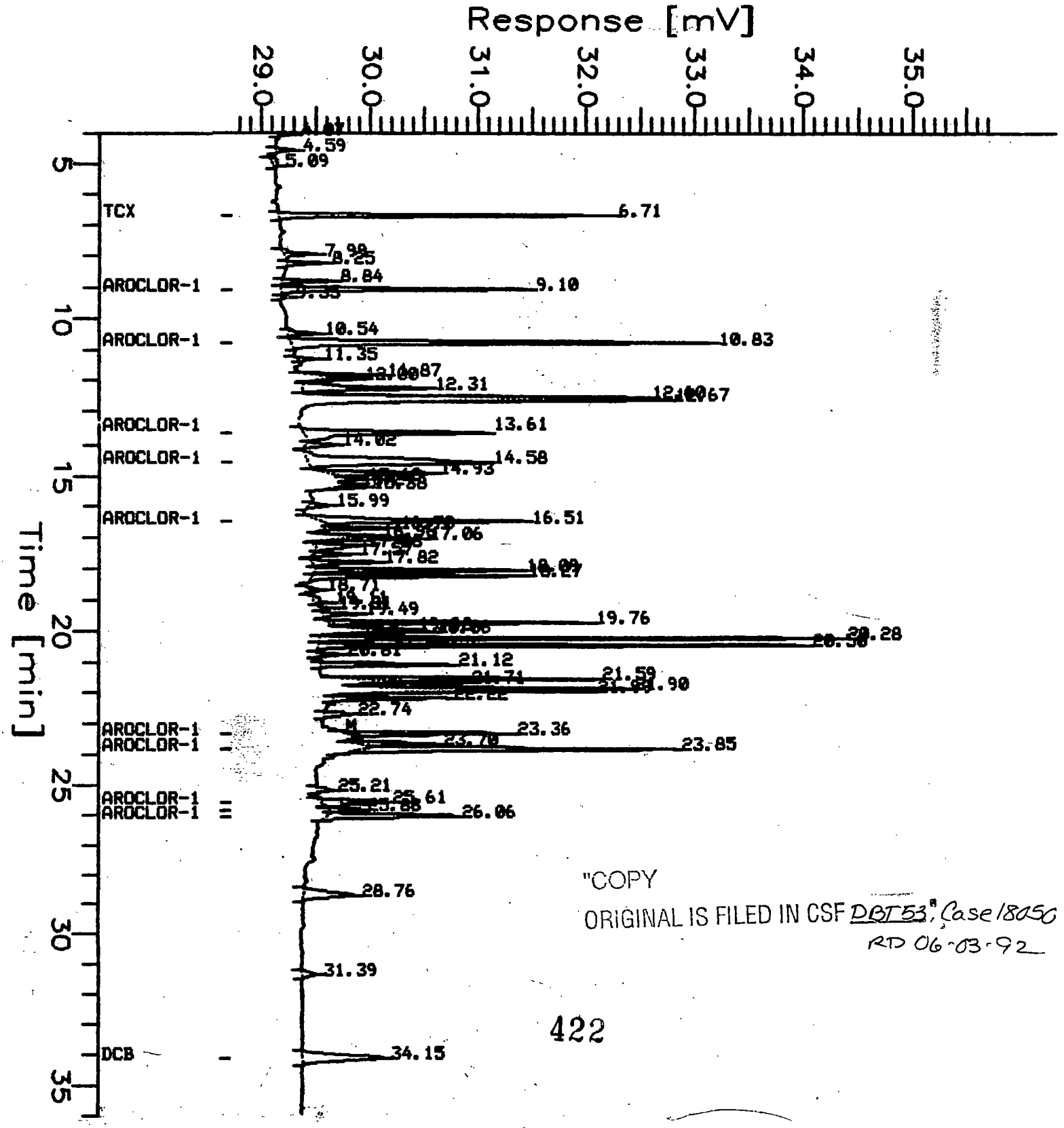
"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

19026·5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : AR1660AA
FileName : C:\USERS\EPA\8\8B13004.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 29 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:33
Time of Injection: 5/16/92 12:58
Low Point : 28.72 mV High Point : 35.72 mV
Plot Scale: 7 mV



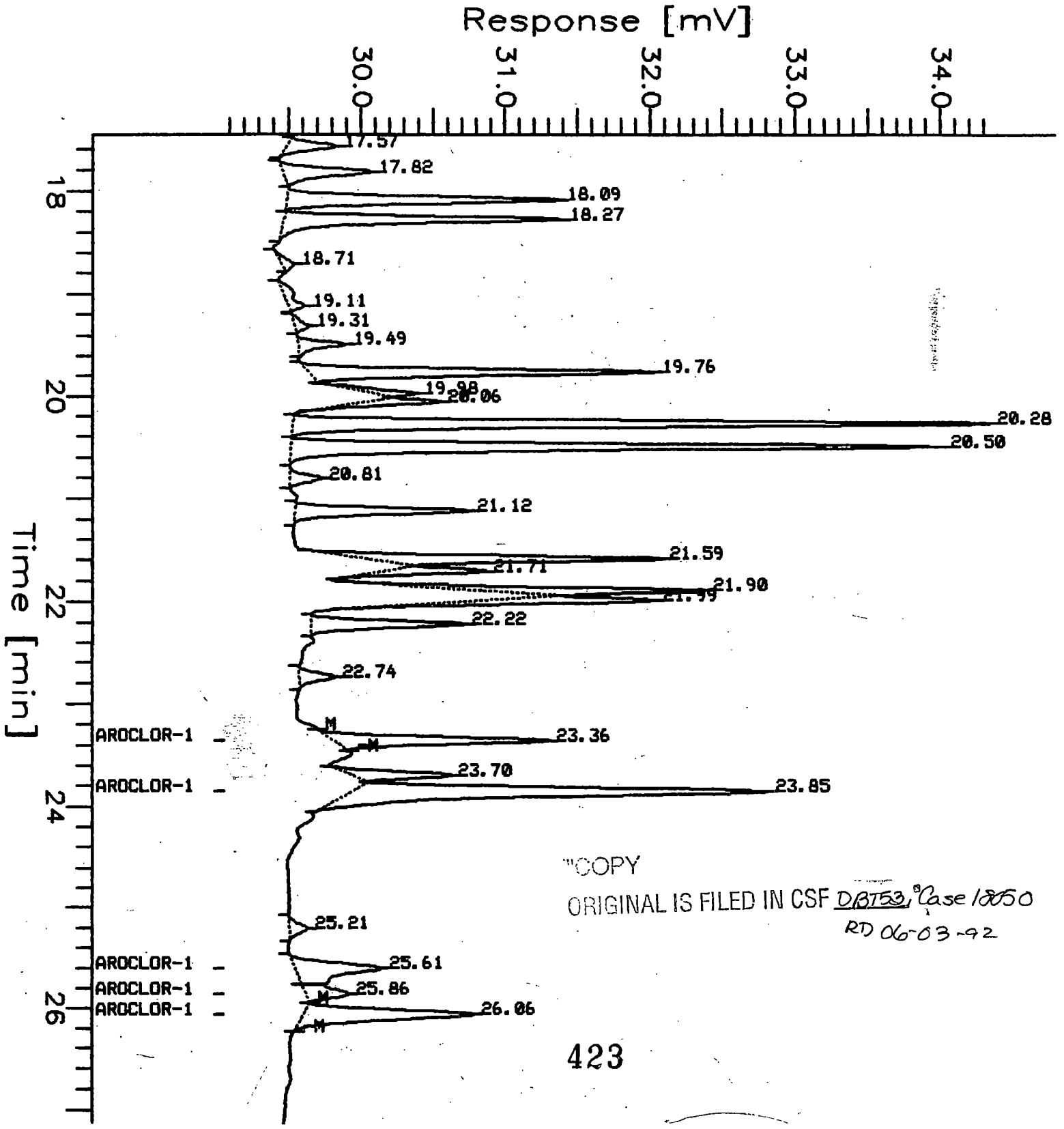
"COPY
ORIGINAL IS FILED IN CSF DBT53", Case 18050
RD 06-03-92

19026·5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : AR1660AA
FileName : C:\USERS\EPA\8\8B13004.raw
Method : EPA8B.ins
Start Time : 17.45 min End Time : 27.13 min
Scale Factor: 0 Plot Offset: 29 mV

Sample #: Page 1 of 1
Date : 5/20/92 08:58
Time of Injection: 5/16/92 12:58
Low Point : 29.07 mV High Point : 34.34 mV
Plot Scale: 5 mV



"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

Software Version: 3.2 (10J29)
Sample Name : AR1660AA Time : 5/19/92 21:08
Sample Number: Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : B A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/16/92 12:58
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13004.raw
Result File : c:\users\epa\8\8B13004.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\B1660.prc
Sample File : C:\USERS\EPA\8\B1660.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

COPY
ORIGINAL IS FILED IN CSF DGT53, Case 18050
RD 06-03-92

Total Number of Peaks Detected: 61

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.07	529	130		0.0
2	4.59	830	174		0.0
3	5.09	762	33		0.0
4	6.71	13897	3073	TCX	20.0
5	7.99	1753	292		0.0
6	8.25	1666	338		0.0
7	8.84	2316	456		0.0

8	9.10	11520	2284	AROCLOR-1016	100.0
10	10.54	1510	257		0.0
11	10.83	26159	3881	AROCLOR-1016-2	100.0
12	11.35	805	158		0.0
13	11.87	2626	529		0.0
14	12.00	1245	284		0.0
15	12.31	8580	1144		0.0
16	12.60	4401	756		0.0
17	12.67	4734	1057		0.0
18	13.61	13628	1684	AROCLOR-1016-3	100.0
19	14.02	1792	258		0.0
20	14.58	20994	1641	AROCLOR-1016-4	100.0
21	14.93	6792	948		0.0
22	15.12	603	131		0.0
24	15.38	1443	263		0.0
25	15.99	1152	179		0.0
26	16.51	12761	1868	AROCLOR-1016-5	100.0
27	16.70	3098	626		0.0
28	16.96	866	221		0.0
29	17.06	2964	715		0.0
30	17.28	3325	423		0.0
31	17.57	1694	339		0.0
32	17.82	3399	601		0.0
33	18.09	9069	1883		0.0
34	18.27	9064	1925		0.0
35	18.71	504	74		0.0
36	19.11	1002	108		0.0
37	19.31	538	94		0.0
38	19.49	1487	323		0.0
39	19.76	11008	2395		0.0
40	19.98	1305	280		0.0
41	20.06	1927	516		0.0
42	20.28	21103	4838		0.0
43	20.50	20077	4500		0.0
44	20.81	1007	215		0.0
45	21.12	5522	1212		0.0
46	21.59	8673	2043		0.0
47	21.71	2468	706		0.0
48	21.90	6387	1563		0.0
49	21.99	4093	1178		0.0
50	22.22	5251	1060		0.0
51	22.74	1303	242		0.0
52	23.36	7616	1490	AROCLOR-1260	100.0
53	23.70	3058	678		0.0
54	23.85	17723	2879	AROCLOR-1260-2	100.0
55	25.21	793	120		0.0
56	25.61	4892	591	AROCLOR-1260-3	100.0
57	25.86	1873	290	AROCLOR-1260-4	100.0
58	26.06	8218	1182	AROCLOR-1260-5	100.0
59	28.76	5714	467		0.0
60	31.39	964	112		0.0
61	34.15	9016	738	DCB	20.0
		329496	58442		

COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

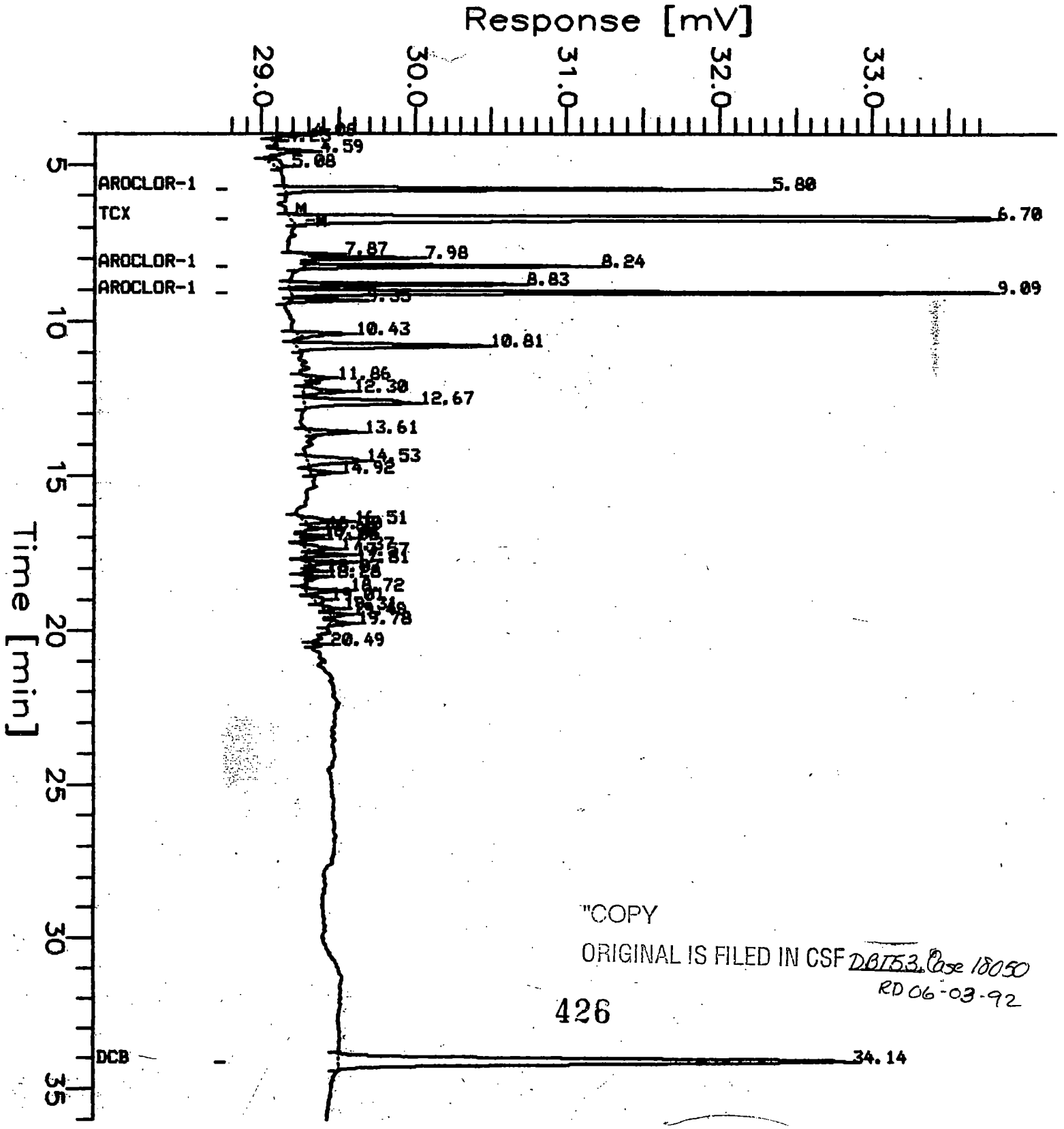
Report Stored in ASCII File: C:\USERS\EPA\8\8B13004.TX0

19026·5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : AR1221AA
FileName : C:\USERS\EPA\8\8813005.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 29 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:34
Time of Injection: 5/16/92 13:39
Low Point : 28.77 mV High Point : 33.77 mV
Plot Scale: 5 mV



"COPY
ORIGINAL IS FILED IN CSF DB153 Case 18050
RD 06-03-92

Software Version: 3.2 (10J29)
Sample Name : AR1221AA
Sample Number:
Operator : LANE

Time : 5/17/92 16:36
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 13:39
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13005.raw
Result File : c:\users\epa\8\8B13005.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\B1221.prc
Sample File : C:\USERS\EPA\8\B1221.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DB153, Case 18050
RD 06-03-92

Total Number of Peaks Detected: 36

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.06	911	191		0.0
3	4.59	1053	216		0.0
4	5.08	1112	50		0.0
5	5.80	14035	3149	AROCLOR-1221	200.0
6	6.70	73483	16489	TCX	20.0
7	7.87	716	190		0.0
8	7.98	2922	672		0.0

9	8.24	9159	1903	AROCLOR-1221-2	200.0
10	8.83	7631	1504		0.0
11	9.09	24841	4997	AROCLOR-1221-3	200.0
12	9.35	2184	453		0.0
13	10.43	1672	316		0.0
14	10.81	10507	1218		0.0
15	11.86	755	128		0.0
16	12.30	2121	270		0.0
17	12.67	7980	703		0.0
18	13.61	2103	304		0.0
19	14.53	4270	333		0.0
20	14.92	996	139		0.0
21	16.51	2042	266		0.0
25	17.37	1357	161		0.0
26	17.57	1330	264		0.0
27	17.81	1411	267		0.0
30	18.72	1544	242		0.0
31	19.01	661	59		0.0
34	19.78	822	131		0.0
36	34.14	41049	3319	DCB	20.0
		218665	37932		

Report Stored in ASCII File: C:\USERS\EPA\8\8B13005.TX0

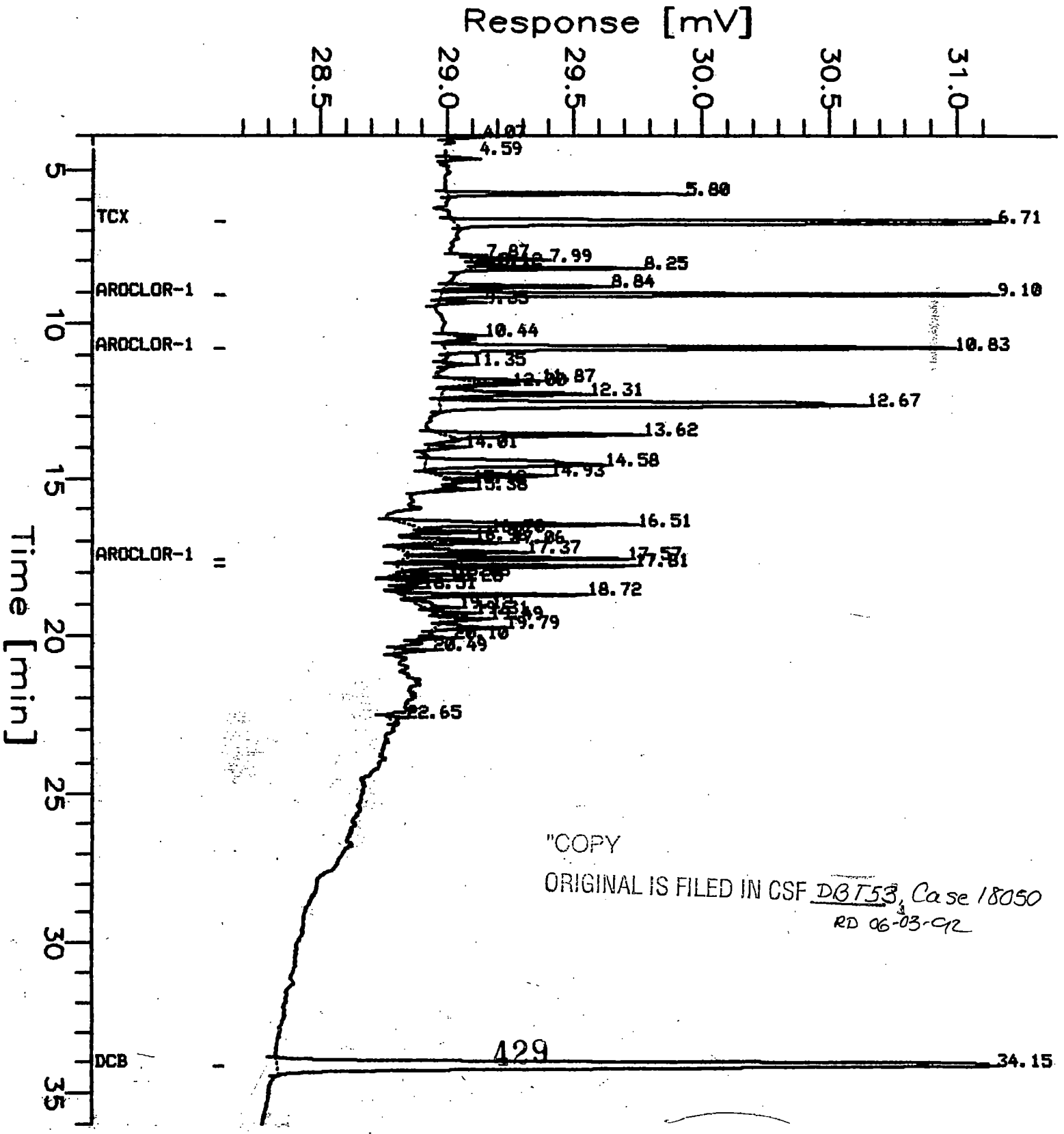
"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

19026-5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : AR12320A
FileName : c:\users\epa\8\8B13006.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 28 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:35
Time of Injection: 5/16/92 14:21
Low Point : 28.13 mV High Point : 31.13 mV
Plot Scale: 3 mV



"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

429

Software Version: 3.2 (10J29)
Sample Name : AR1232AA
Sample Number:
Operator : LANE

Time : 5/17/92 16:36
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 14:21
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : c:\users\epa\8\8B13006.raw
Result File : c:\users\epa\8\8B13006.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\B1232.prc
Sample File : C:\USERS\EPA\8\B1232.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD06-03-92

Total Number of Peaks Detected: 43

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
3	5.80	4085	909		0.0
4	6.71	70362	16524	TCX	20.0
6	7.99	1207	279		0.0
8	8.25	3100	656		0.0
9	8.84	3238	628		0.0
10	9.10	12927	2547	AROCLOR-1232	100.0
11	9.35	743	155		0.0

13	10.83	14453	1972	AROCLOR-1232-2	100.0
15	11.87	1338	253		0.0
16	12.00	569	131		0.0
17	12.31	4183	553		0.0
18	12.67	19122	1647		0.0
19	13.62	5250	754		0.0
20	14.01	734	109		0.0
21	14.58	8662	680		0.0
22	14.93	2926	409		0.0
24	15.38	553	102		0.0
25	16.51	6386	865		0.0
26	16.70	1257	261		0.0
28	17.06	1176	291		0.0
29	17.37	3289	444		0.0
30	17.57	4187	847	AROCLOR-1232-3	100.0
31	17.81	4996	902	AROCLOR-1232-4	100.0
32	18.08	1018	209		0.0
33	18.28	615	146		0.0
35	18.72	3603	702		0.0
36	19.12	887	105		0.0
37	19.31	721	131		0.0
38	19.49	906	168		0.0
39	19.79	1645	249		0.0
41	20.49	729	118		0.0
43	34.15	42284	3448	DCB	20.0
		227150	37193		

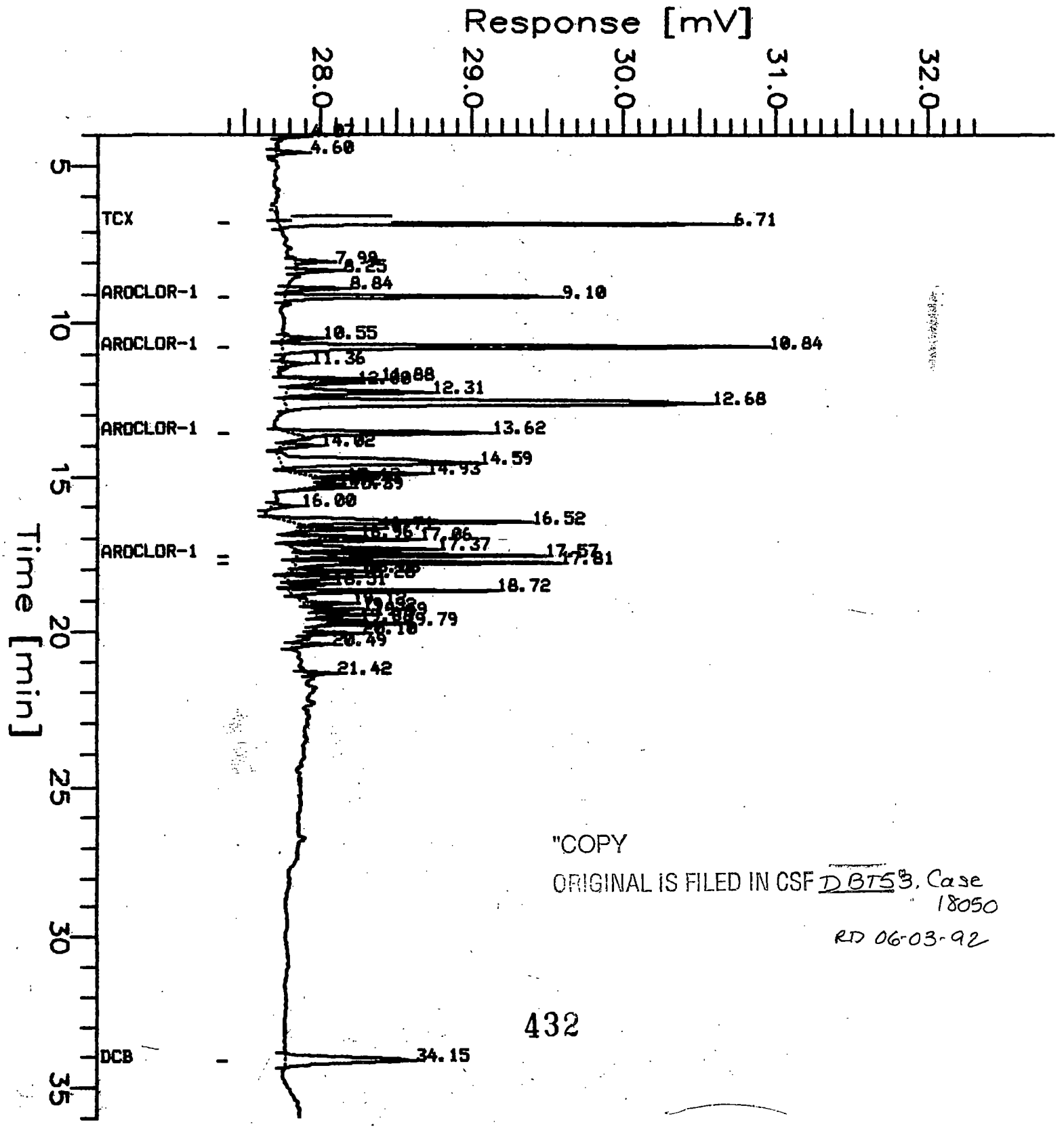
Report Stored in ASCII File: c:\users\epa\8\8B13006.TX0

"COPY
ORIGINAL IS FILED IN CSF DBT 53, Case 18050
RD 06-03-92

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : AR12420A
FileName : c:\users\epa\8\8813007.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 27 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:36
Time of Injection: 5/16/92 15:02
Low Point : 27.40 mV High Point : 32.40 mV
Plot Scale: 5 mV



"COPY
ORIGINAL IS FILED IN CSF DBTS3, Case 18050
RD 06-03-92

Software Version: 3.2 (10J29)
Sample Name : AR1242AA
Sample Number:
Operator : LANE

Time : 5/17/92 16:36
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 15:02
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : c:\users\epa\8\8B13007.raw
Result File : c:\users\epa\8\8B13007.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\B1242.prc
Sample File : C:\USERS\EPA\8\B1242.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

Total Number of Peaks Detected: 42

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.07	627	147		0.0
2	4.60	843	166		0.0
3	6.71	13983	2964	TCX	20.0
4	7.99	1036	209		0.0
5	8.25	1273	255		0.0
6	8.84	1893	354		0.0
7	9.10	9418	1783	AROCLOR-1242	100.0

8	10.55	1183	200		0.0
9	10.84	21711	3146	AROCLOR-1242-2	100.0
10	11.36	626	118		0.0
11	11.88	2007	401		0.0
12	12.00	908	207		0.0
13	12.31	6804	898		0.0
14	12.68	32305	2752		0.0
15	13.62	8889	1257	AROCLOR-1242-3	100.0
16	14.02	1425	201		0.0
17	14.59	16281	1252		0.0
18	14.93	5463	753		0.0
21	15.39	1154	201		0.0
22	16.00	908	138		0.0
23	16.52	11164	1533		0.0
24	16.71	2357	471		0.0
25	16.96	679	171		0.0
26	17.06	2515	595		0.0
27	17.37	6177	877		0.0
28	17.57	7878	1584	AROCLOR-1242-4	100.0
29	17.81	9341	1704	AROCLOR-1242-5	100.0
30	18.08	2065	428		0.0
31	18.28	2987	438		0.0
32	18.51	901	230		0.0
33	18.72	6551	1310		0.0
34	19.12	1423	249		0.0
35	19.32	1139	261		0.0
36	19.49	1469	324		0.0
38	19.79	1840	446		0.0
39	20.10	1242	292		0.0
40	20.49	1130	202		0.0
41	21.42	718	143		0.0
42	34.15	9566	795	DCB	20.0
		199875	29450		

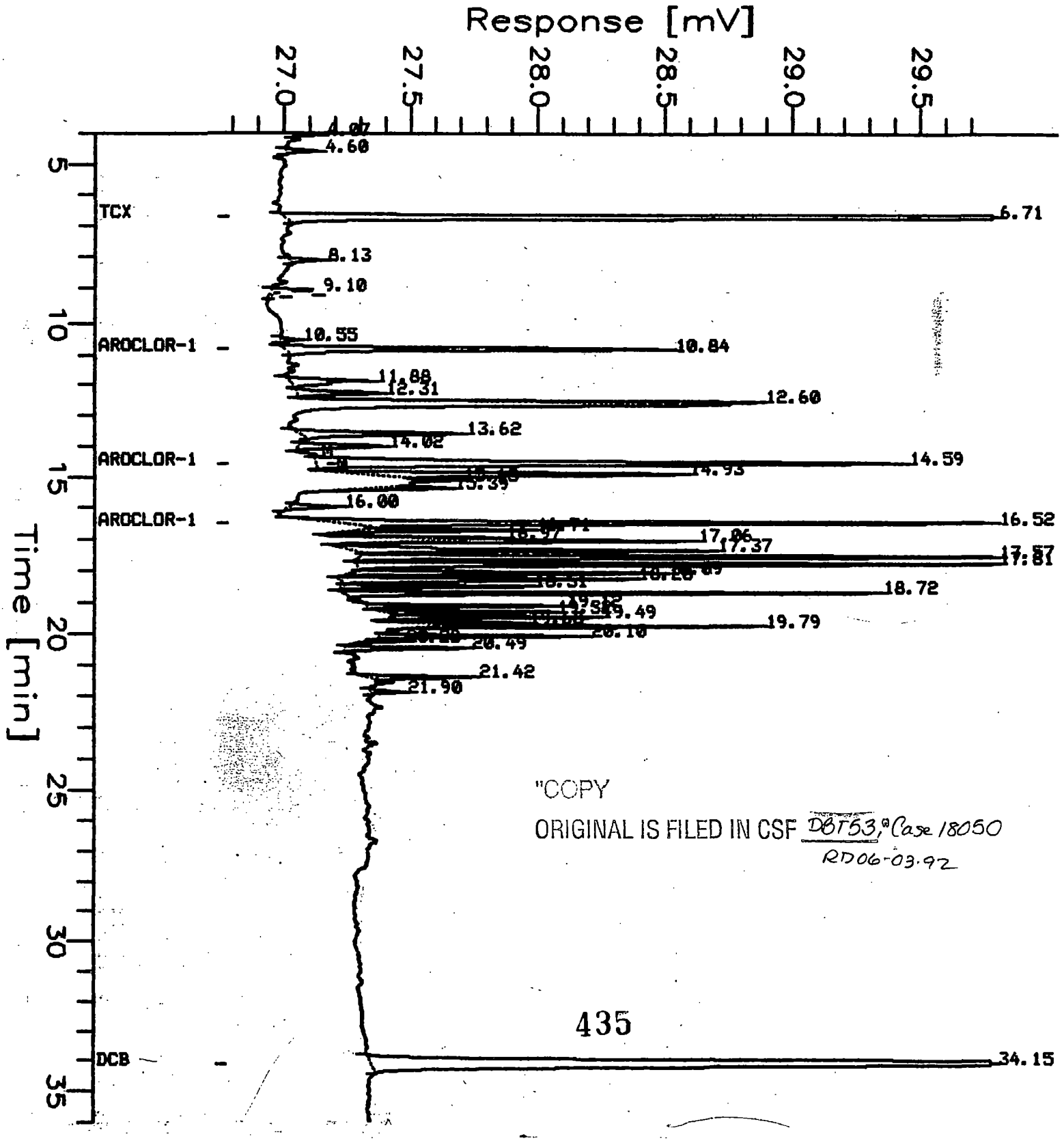
Report Stored in ASCII File: c:\users\epa\8\8B13007.TX0

"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD06-03-92

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : AR1248AA
FileName : C:\USERS\EPA\8\8813008.raw
Method : EPA88.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 27 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:37
Time of Injection: 5/16/92 15:43
Low Point : 26.78 mV High Point : 29.78 mV
Plot Scale: 3 mV



"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD06-03-92

Software Version: 3.2 (10J29)
Sample Name : AR1248AA
Sample Number:
Operator : LANE

Time : 5/19/92 21:08
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 15:43
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13008.raw
Result File : c:\users\epa\8\8B13008.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\B1248.prc
Sample File : C:\USERS\EPA\8\B1248.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

Total Number of Peaks Detected: 39

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
2	4.60	607	119		0.0
3	6.71	72352	17121	TCX	20.0
4	8.13	560	115		0.0
5	9.10	888	169		0.0
7	10.84	10019	1508	AROCLOR-1248	100.0
8	11.88	3080	312		0.0
9	12.31	2226	320		0.0

10	12.60	3130	569		0.0
11	13.62	4778	625		0.0
12	14.02	2501	329		0.0
13	14.59	20938	2296	AROCLOR-1248-2	100.0
14	14.93	8831	1225		0.0
15	15.13	756	162		0.0
16	15.39	1659	290		0.0
17	16.00	1228	184		0.0
18	16.52	16056	2601	AROCLOR-1248-3	100.0
19	16.71	3423	676		0.0
20	16.97	952	226		0.0
21	17.06	4590	1049		0.0
22	17.37	8988	1412		0.0
23	17.57	14855	2998		0.0
24	17.81	15089	2774		0.0
25	18.09	6063	1227		0.0
26	18.28	7241	1152		0.0
27	18.51	2991	726		0.0
28	18.72	10029	2092		0.0
29	19.12	3277	757		0.0
30	19.32	2923	649		0.0
31	19.49	3310	792		0.0
32	19.68	1132	342		0.0
33	19.79	4951	1255		0.0
34	20.10	3610	805		0.0
35	20.28	579	135		0.0
36	20.49	2395	473		0.0
37	21.42	2138	409		0.0
38	21.90	588	115		0.0
39	34.15	45160	3608	DCB	20.0
		293890	51617		

Report Stored in ASCII File: C:\USERS\EPA\8\8B13008.TX0

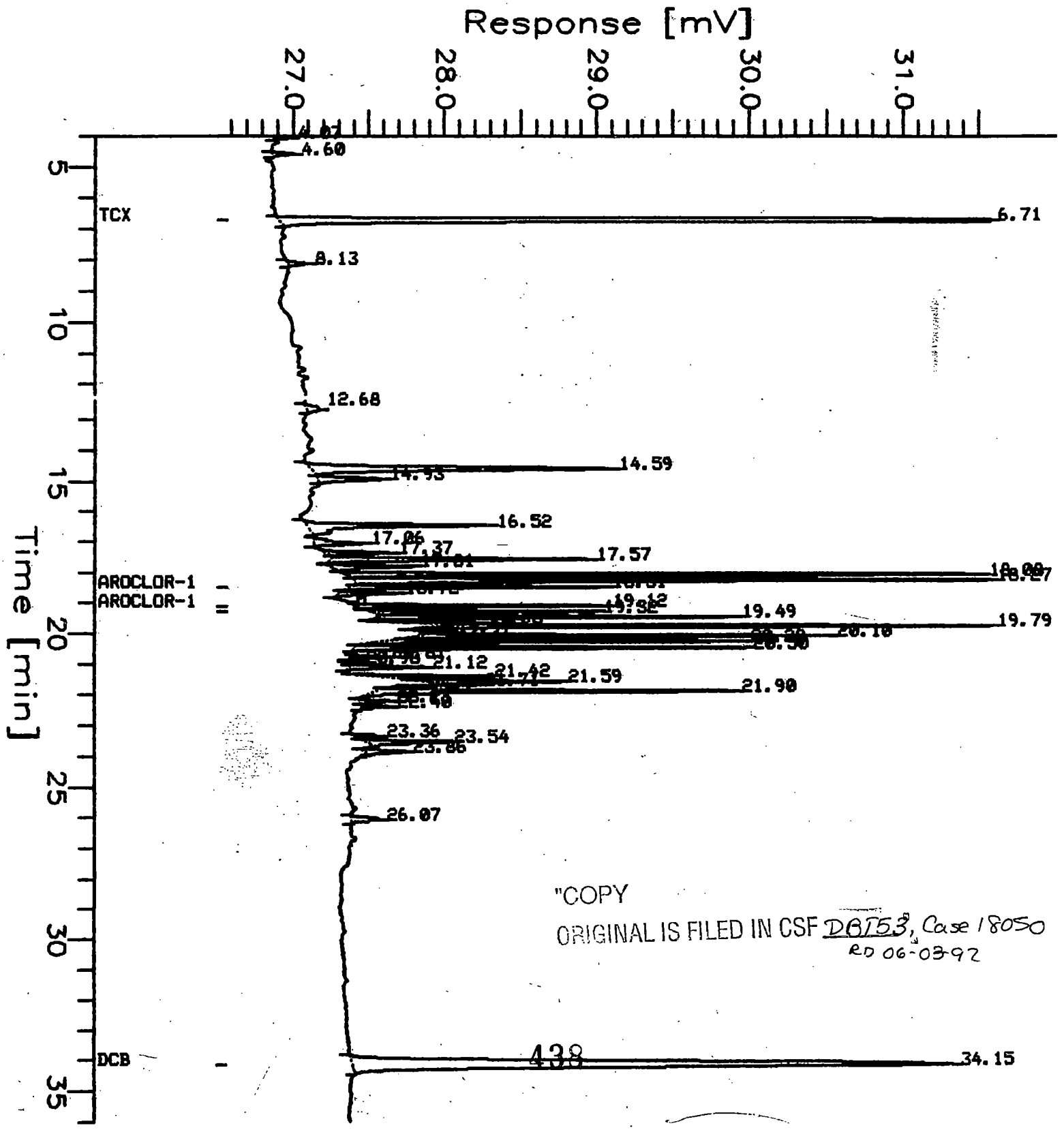
"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

19026 · 5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : AR1254AA
FileName : C:\USERS\EPA\8\8B13009.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 27 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:38
Time of Injection: 5/16/92 16:24
Low Point : 26.57 mV High Point : 31.57 mV
Plot Scale: 5 mV



"COPY
ORIGINAL IS FILED IN CSF DB753, Case 18050
RD 06-03-92

438

Software Version: 3.2 (10J29)
Sample Name : AR1254AA
Sample Number:
Operator : LANE

Time : 5/19/92 21:08
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 16:24
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13009.raw
Result File : c:\users\epa\8\8B13009.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\B1254.prc
Sample File : C:\USERS\EPA\8\B1254.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBT53" Case 18050
RD 06-03-92

Total Number of Peaks Detected: 39

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
2	4.60	705	138		0.0
3	6.71	70738	16674	TCX	20.0
4	8.13	629	123		0.0
5	12.68	894	75		0.0
6	14.59	16571	1972		0.0
7	14.93	3219	424		0.0
8	16.52	8599	1203		0.0

9	17.06	2130	331		0.0
10	17.37	2396	435		0.0
11	17.57	8734	1705		0.0
12	17.81	3207	543		0.0
13	18.08	21003	4183		0.0
14	18.27	23305	4507		0.0
15	18.51	7087	1680	AROCLOR-1254	100.0
16	18.72	1917	385		0.0
17	19.12	6890	1649	AROCLOR-1254-2	100.0
18	19.32	6208	1466	AROCLOR-1254-3	100.0
19	19.49	9484	2339		0.0
20	19.68	886	277		0.0
21	19.79	18537	4581		0.0
22	19.97	810	182		0.0
23	20.10	11925	2699		0.0
24	20.28	10197	2359		0.0
25	20.50	12097	2572		0.0
26	20.81	997	222		0.0
28	21.12	2361	513		0.0
29	21.42	3109	696		0.0
30	21.59	3394	840		0.0
31	21.71	1165	329		0.0
32	21.90	13722	2364		0.0
33	22.23	939	190		0.0
34	22.40	952	187		0.0
35	23.36	758	152		0.0
36	23.54	3588	528		0.0
37	23.86	1425	269		0.0
38	26.07	1323	185		0.0
39	34.15	48956	3937	DCB	20.0
		330854	62912		

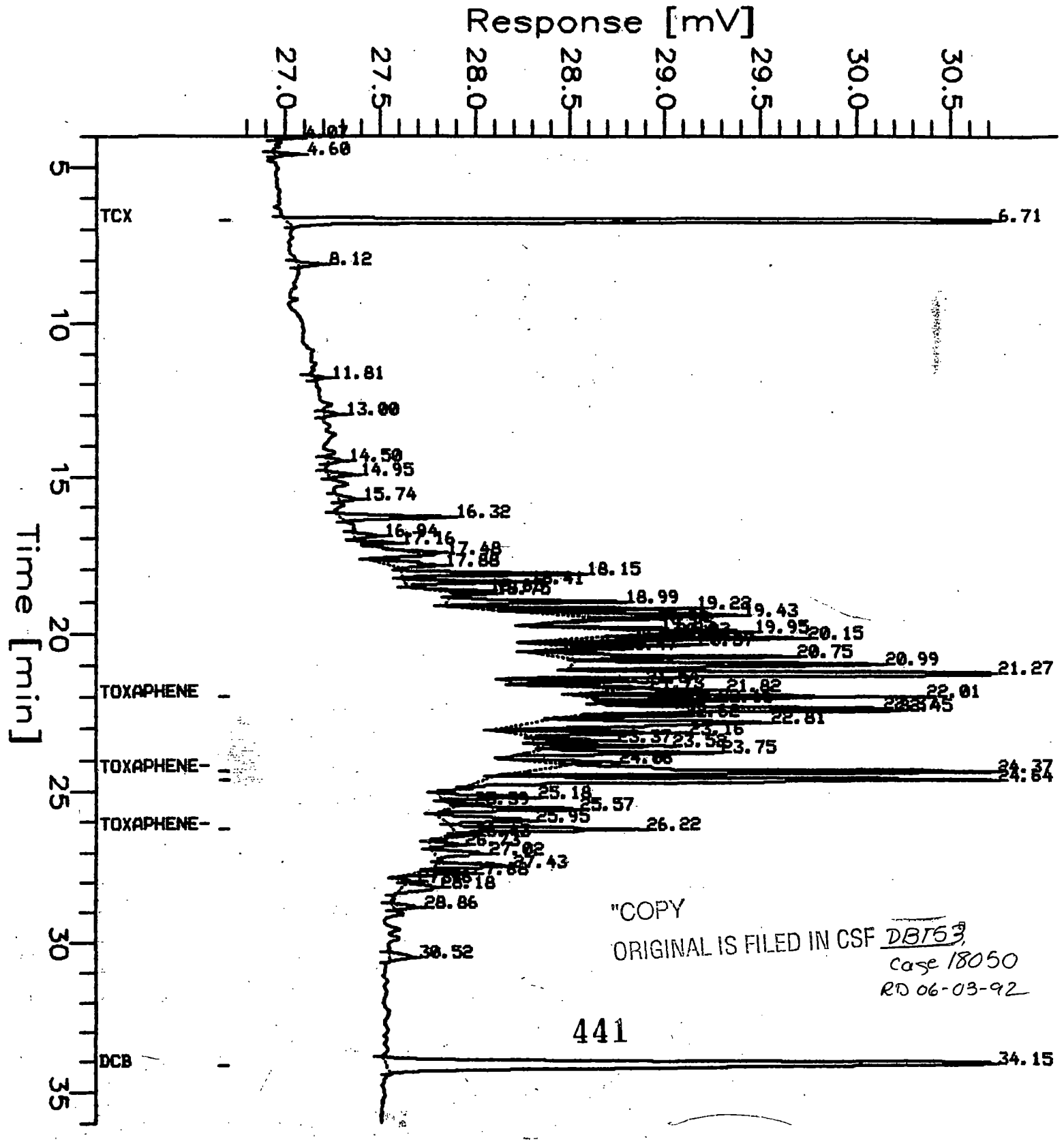
Report Stored in ASCII File: C:\USERS\EPA\8\8B13009.TX0

"COPY
ORIGINAL IS FILED IN CSF DBT63, Case 18050
RD 06-03-92

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : TOXAPHAA
FileName : c:\users\epa\8\8013010.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 27 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:39
Time of Injection: 5/16/92 17:06
Low Point : 26.71 mV High Point : 30.71 mV
Plot Scale: 4 mV



"COPY
ORIGINAL IS FILED IN CSF DB153,
Case 18050
RD 06-03-92

Software Version: 3.2 (10J29)
Sample Name : TOXAPHAA
Sample Number:
Operator : LANE

Time : 5/17/92 16:37
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 17:06
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : c:\users\epa\8\8B13010.raw
Result File : c:\users\epa\8\8B13010.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BTOX.prc
Sample File : C:\USERS\EPA\8\BTOX.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBT53," Case 18050
RD 06-03-92

Total Number of Peaks Detected: 62

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
2	4.60	627	125		0.0
3	6.71	69933	16466	TCX	20.0
4	8.12	640	122		0.0
7	14.50	574	68		0.0
8	14.95	1055	131		0.0
9	15.74	739	89		0.0
10	16.32	4353	568		0.0

11	16.94	978	120		0.0
12	17.16	789	161		0.0
13	17.48	611	107		0.0
14	17.88	2710	239		0.0
15	18.15	5947	930		0.0
16	18.41	3555	620		0.0
17	18.65	979	191		0.0
18	18.75	574	165		0.0
19	18.99	5358	897		0.0
20	19.22	4727	1113		0.0
21	19.43	5742	898		0.0
22	19.55	784	299		0.0
23	19.85	1211	353		0.0
24	19.95	1856	552		0.0
26	20.15	6096	1146		0.0
27	20.37	2677	694		0.0
28	20.47	891	255		0.0
29	20.75	7953	1223		0.0
30	20.99	14530	1602		0.0
31	21.27	2695	525		0.0
32	21.54	3343	675		0.0
33	21.73	880	181		0.0
34	21.82	2563	578		0.0
35	22.01	8119	1736	TOXAPHENE	500.0
36	22.15	2328	586		0.0
37	22.37	2011	369		0.0
38	22.45	2319	544		0.0
39	22.62	2390	532		0.0
40	22.81	12551	1201		0.0
41	23.16	4767	896		0.0
42	23.37	2075	405		0.0
43	23.52	3331	670		0.0
44	23.75	6423	995		0.0
45	24.06	1782	337		0.0
46	24.37	21386	2686	TOXAPHENE-2	500.0
47	24.64	20956	2782	TOXAPHENE-3	500.0
48	25.18	2924	471		0.0
50	25.57	4855	648		0.0
51	25.95	4873	439		0.0
52	26.22	6922	978	TOXAPHENE-4	500.0
53	26.43	810	99		0.0
54	26.73	1120	142		0.0
55	27.02	2156	246		0.0
56	27.43	2642	368		0.0
57	27.68	1905	259		0.0
59	28.18	2406	163		0.0
60	28.86	995	119		0.0
61	30.52	1332	115		0.0
62	34.15	43414	3475	DCB	20.0
		322162	52354		

Report Stored in ASCII File: c:\users\epa\8\8B13010.TX0

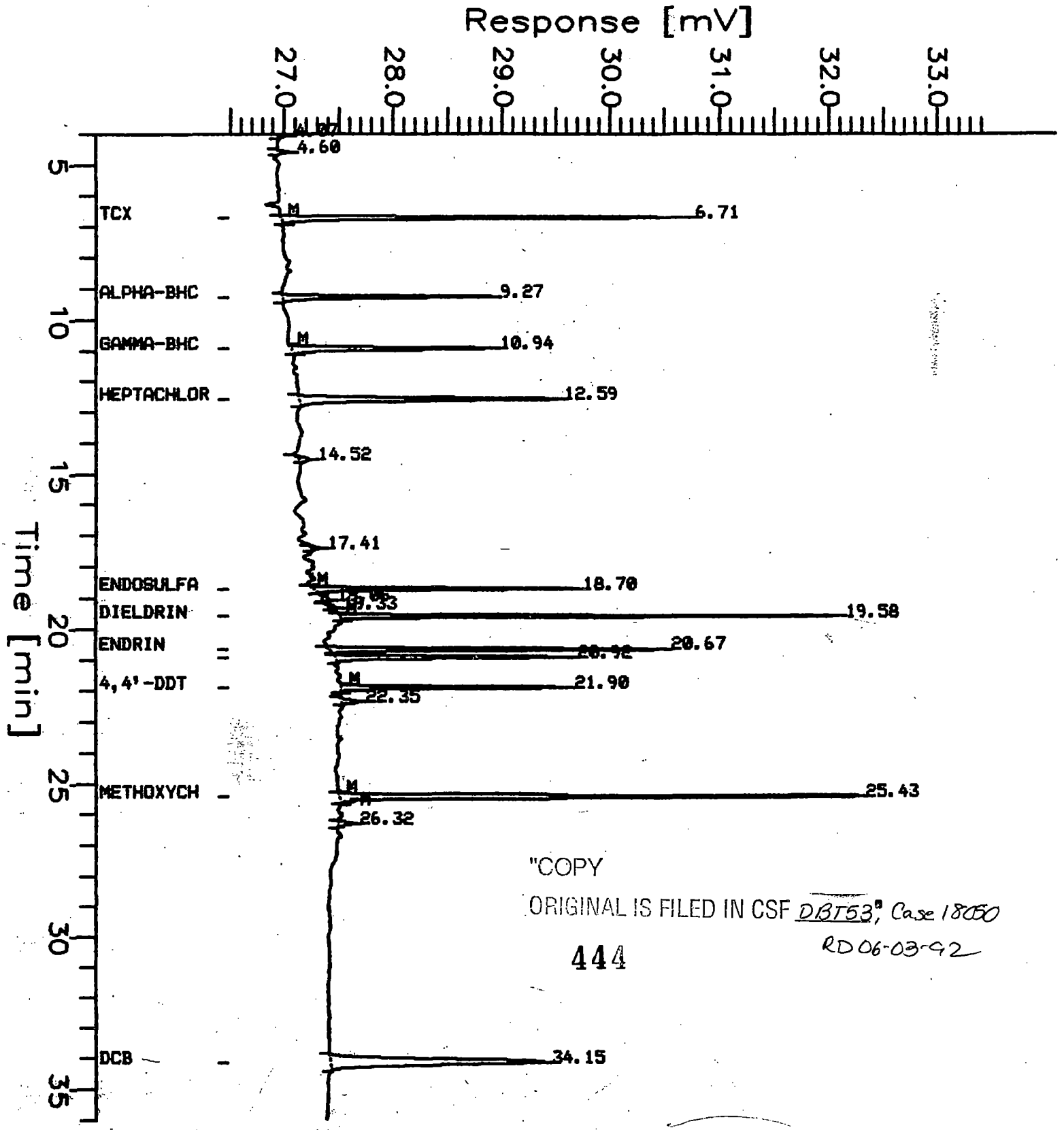
"COPY
ORIGINAL IS FILED IN CSF DBT53."
Case 18050
RD 06-03-92

19026 · 5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : INDALAA
FileName : C:\USERS\EPA\8\8B13011.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 27 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:40
Time of Injection: 5/16/92 17:47
Low Point : 26.48 mV High Point : 33.48 mV
Plot Scale: 7 mV



"COPY
ORIGINAL IS FILED IN CSF DBT53", Case 18050
RD 06-03-92

444

Software Version: 3.2 (10J29)
Sample Name : INDALAA
Sample Number:
Operator : LANE

Time : 5/17/92 16:37
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 17:47
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13011.raw
Result File : c:\users\epa\8\8B13011.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BIAL.prc
Sample File : C:\USERS\EPA\8\BIA.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

Total Number of Peaks Detected: 19

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
3	6.71	17704	3739	TCX	5.0
4	9.27	10497	1927	ALPHA-BHC	5.0
5	10.94	11125	1839	GAMMA-BHC	5.0
6	12.59	18430	2372	HEPTACHLOR	5.0
7	14.52	655	82		0.0
9	18.70	11846	2410	ENDOSULFAN I	5.0
10	19.06	651	61		0.0

12	19.58	20016	4575	DIELDRIN	10.0
13	20.67	15171	3098	ENDRIN	10.0
14	20.92	10968	2181	4,4'-DDD	10.0
15	21.90	10844	2087	4,4'-DDT	10.0
16	22.35	1125	155		0.0
17	25.43	33293	4758	METHOXYCHLOR	50.0
18	26.32	927	123		0.0
19	34.15	24433	1969	DCB	10.0
		187685	31377		

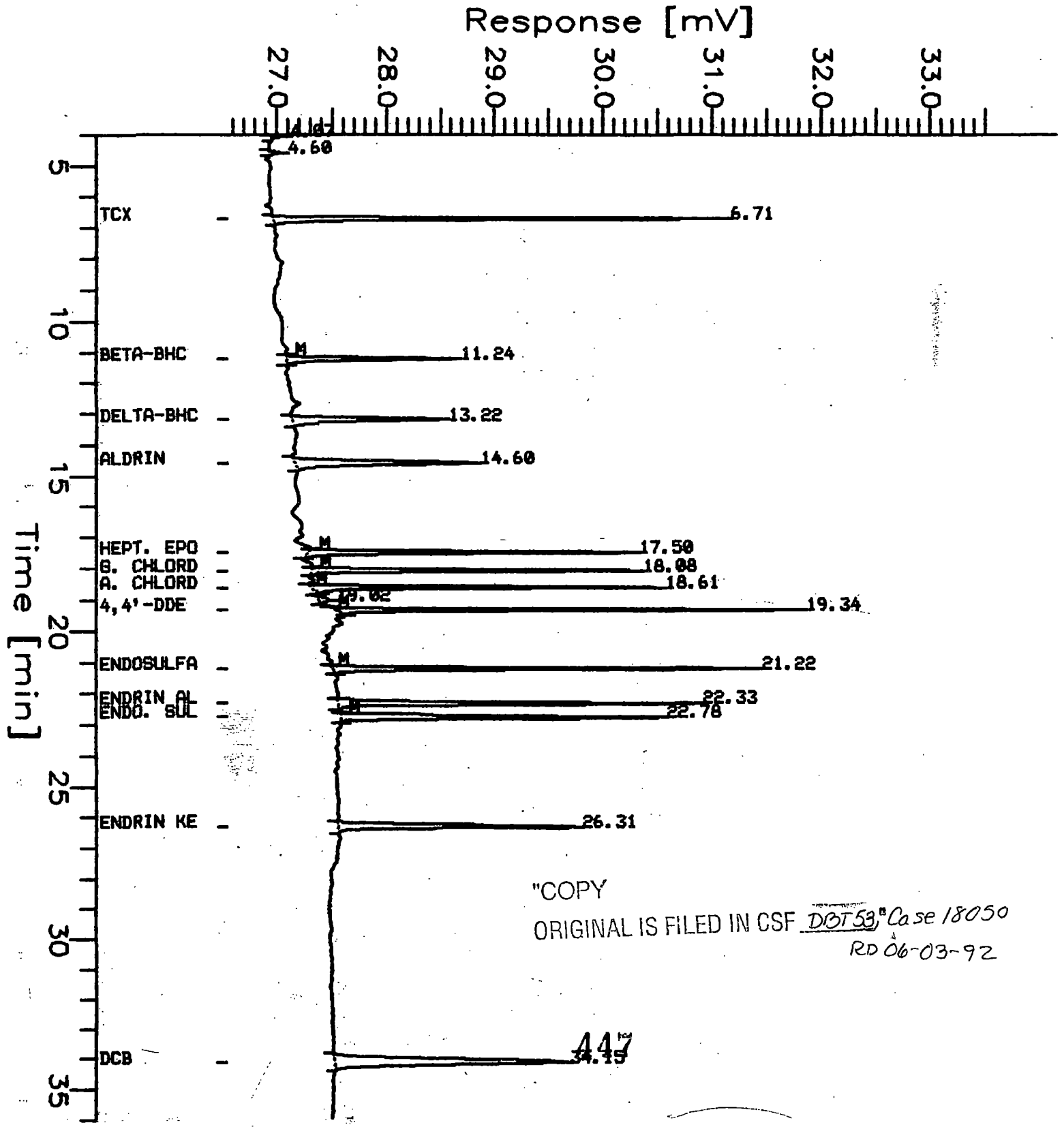
Report Stored in ASCII File: C:\USERS\EPA\8\8B13011.TX0

"COPY
ORIGINAL IS FILED IN CSF DOT53, Case 18050
RD06-03-92

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : INDBLAA
FileName : C:\USERS\EPA\8\8B13012.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 27 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:41
Time of Injection: 5/16/92 18:29
Low Point : 26.55 mV High Point : 33.55 mV
Plot Scale: 7 mV



"COPY
ORIGINAL IS FILED IN CSF DOT 53, "Case 18050
RD 06-03-92

Software Version: 3.2 (10J29)
Sample Name : INDBLAA Time : 5/17/92 16:37
Sample Number: Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : B A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/16/92 18:29
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13012.raw
Result File : c:\users\epa\8\8B13012.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BIBL.prc
Sample File : C:\USERS\EPA\8\BIB.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBT 53, "Case 18050
RD 06-03-92

Total Number of Peaks Detected: 16

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
3	6.71	19577	4150	TCX	5.0
4	11.24	9199	1517	BETA-BHC	5.0
5	13.22	9748	1356	DELTA-BHC	5.0
6	14.60	15138	1625	ALDRIN	5.0
7	17.50	16481	2975	HEPT. EPOXIDE	5.0
8	18.08	14690	2979	G. CHLORDANE	5.0
9	18.61	15536	3180	A. CHLORDANE	5.0

10	19.02	884	86		0.0
11	19.34	17808	4269	4,4'-DDE	10.0
12	21.22	19480	3891	ENDOSULFAN II	10.0
13	22.33	18749	3285	ENDRIN ALDEHYDE	10.0
14	22.78	16852	2934	ENDO. SULFATE	10.0
15	26.31	16850	2178	ENDRIN KETONE	10.0
16	34.15	25936	2101	DCB	10.0
		216925	36523		

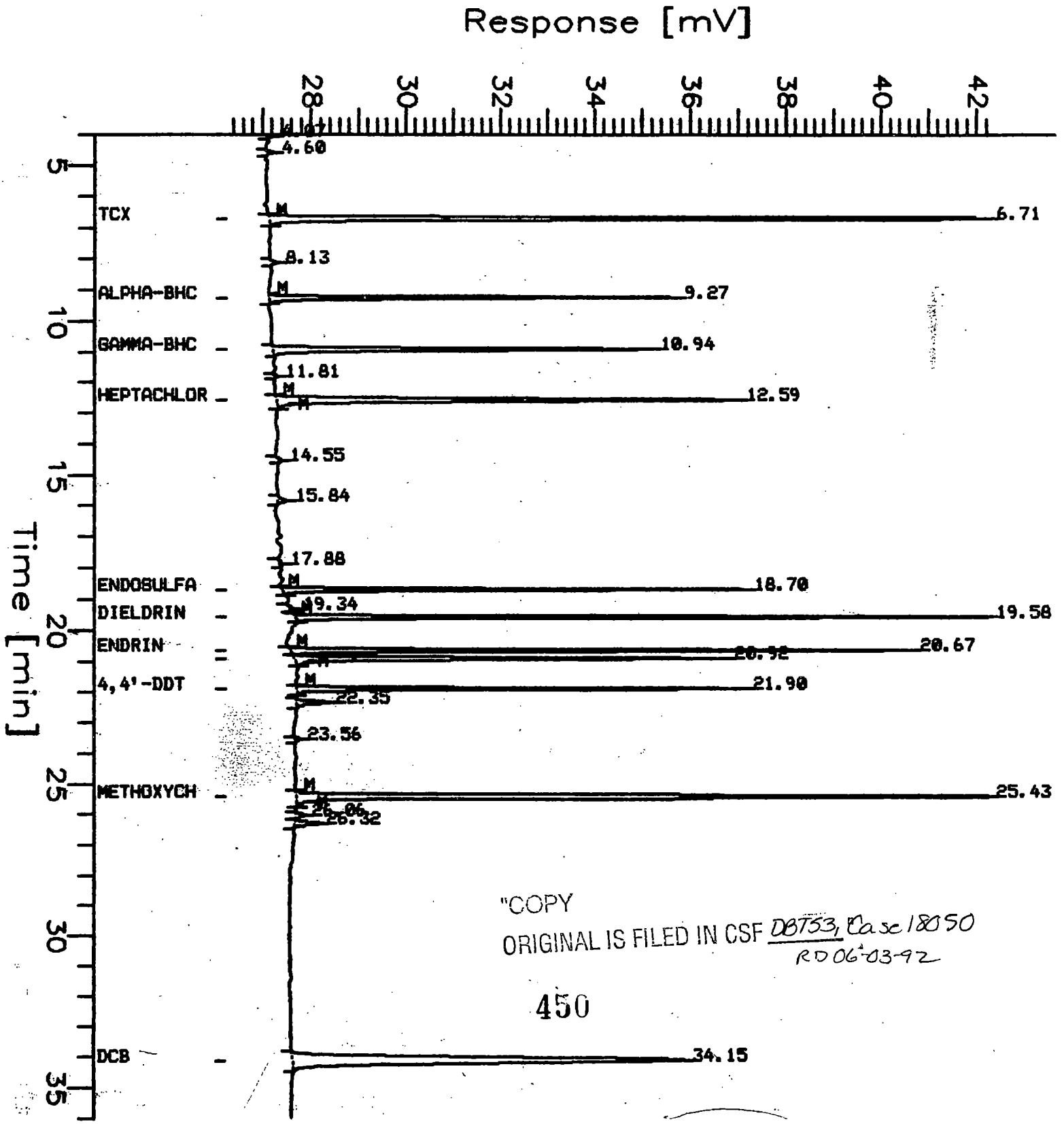
Report Stored in ASCII File: C:\USERS\EPA\8\8B13012.TX0

"COPY
ORIGINAL IS FILED IN CSF DBT53 "Case 18050
RD 06-03-92

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : INDAMAA
FileName : C:\USERS\EPA\8\8813013.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 26 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:42
Time of Injection: 5/16/92 19:10
Low Point : 26.24 mV High Point : 42.24 mV
Plot Scale: 16 mV



"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

Software Version: 3.2 (10J29)
Sample Name : INDAMAA
Sample Number:
Operator : LANE

Time : 5/17/92 16:37
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 19:10
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13013.raw
Result File : c:\users\epa\8\8B13013.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BIAM.prc
Sample File : C:\USERS\EPA\8\BIA.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBT53, "Case 18050
RD 06-03-92

Total Number of Peaks Detected: 23

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.07	539	125		0.0
2	4.60	726	143		0.0
3	6.71	72212	17163	TCX	20.0
4	8.13	700	132		0.0
5	9.27	42234	8580	ALPHA-BHC	20.0
6	10.94	44764	7986	GAMMA-BHC	20.0
8	12.59	72082	9703	HEPTACHLOR	20.0

9	14.55	528	64		0.0
10	15.84	1451	183		0.0
12	18.70	44101	9739	ENDOSULFAN I	20.0
13	19.34	709	104		0.0
14	19.58	80056	19508	DIELDRIN	40.0
15	20.67	60742	13093	ENDRIN	40.0
16	20.92	43796	9135	4,4'-DDD	40.0
17	21.90	45822	9412	4,4'-DDT	40.0
18	22.35	4796	654		0.0
19	23.56	593	98		0.0
20	25.43	146543	21889	METHOXYCHLOR	200.0
21	26.06	1226	170		0.0
22	26.32	3668	491		0.0
23	34.15	103841	8253	DCB	40.0
		771128	136622		

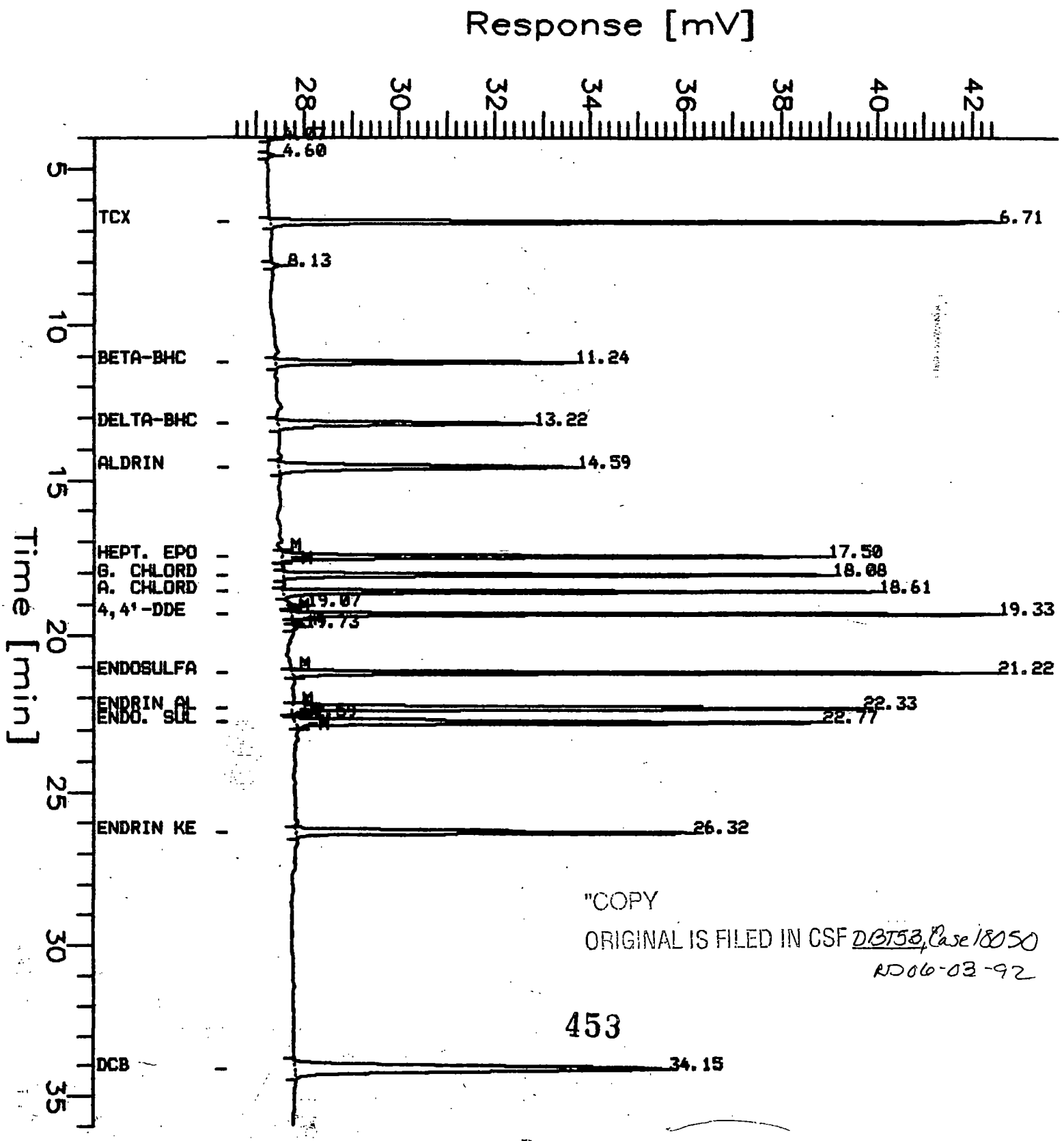
Report Stored in ASCII File: C:\USERS\EPA\8\8B13013.TX0

"COPY"
ORIGINAL IS FILED IN CSF DOT53, Case 18030
RD 06-03-92

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : INDBWAA
FileName : C:\USERS\EPA\8\8813014.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 26 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:43
Time of Injection: 5/16/92 19:51
Low Point : 26.41 mV High Point : 42.41 mV
Plot Scale: 16 mV



"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD06-03-92

Software Version: 3.2 (10J29)
Sample Name : INDBMAA
Sample Number:
Operator : LANE

Time : 5/17/92 16:37
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 19:51
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13014.raw
Result File : c:\users\epa\8\8B13014.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BIBM.prc
Sample File : C:\USERS\EPA\8\BIB.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBI53, Case 18050
RD06-0392

Total Number of Peaks Detected: 19

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.07	521	118		0.0
2	4.60	683	137		0.0
3	6.71	76791	18296	TCX	20.0
4	8.13	684	135		0.0
5	11.24	34787	6129	BETA-BHC	20.0
6	13.22	35517	5194	DELTA-BHC	20.0
7	14.59	53678	6066	ALDRIN	20.0

454

8	17.50	61106	11266	HEPT. EPOXIDE	20.0
9	18.08	53886	11309	G. CHLORDANE	20.0
10	18.61	56141	12302	A. CHLORDANE	20.0
11	19.07	1494	224		0.0
12	19.33	65400	16760	4,4'-DDE	40.0
14	21.22	70883	14817	ENDOSULFAN II	40.0
15	22.33	65509	11826	ENDRIN ALDEHYDE	40.0
17	22.77	61495	10880	ENDO. SULFATE	40.0
18	26.32	61304	8175	ENDRIN KETONE	40.0
19	34.15	95841	7671	DCB	40.0
		795720	141303		

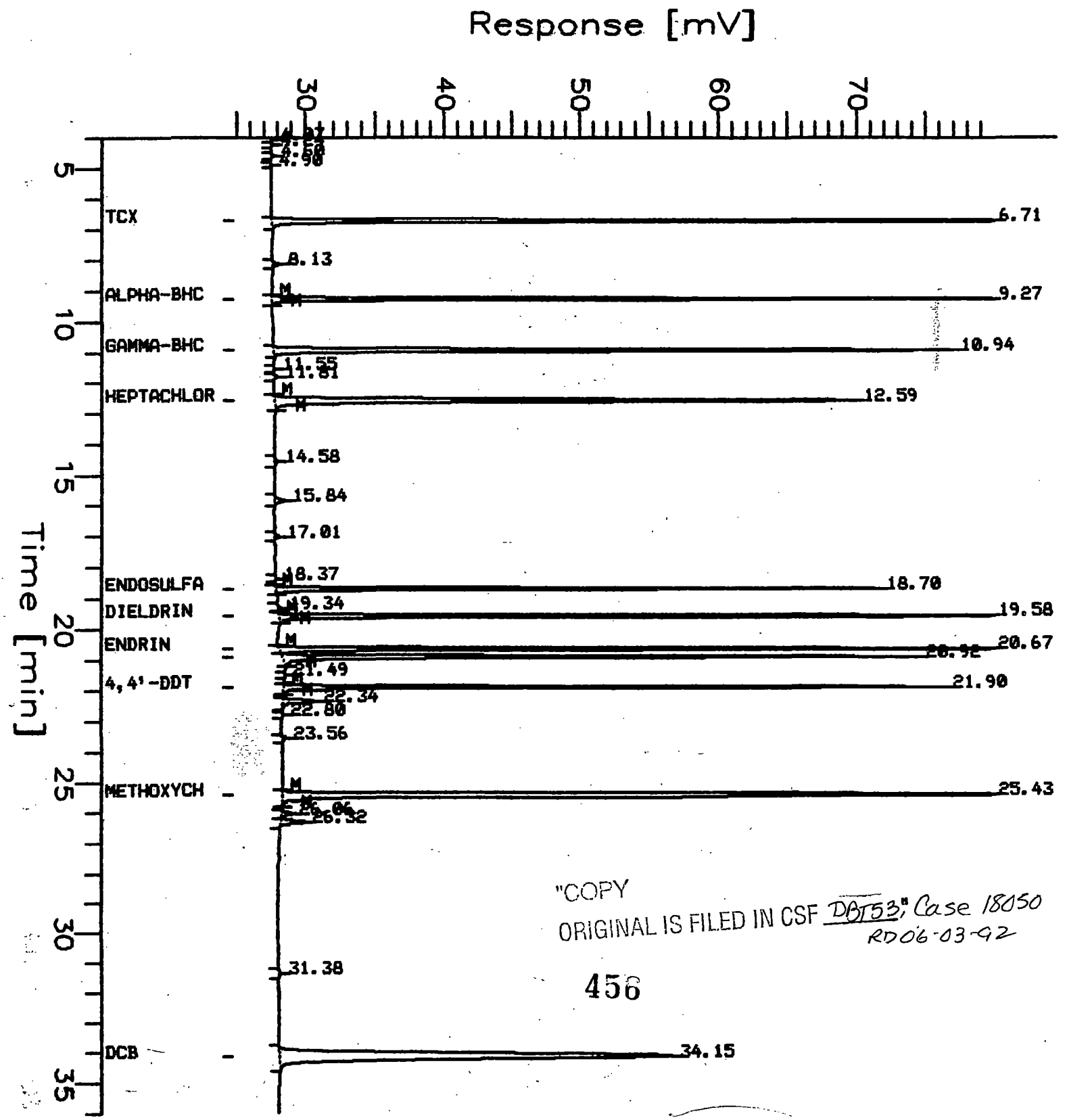
Report Stored in ASCII File: C:\USERS\EPA\8\8B13014.TX0

"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : INDAHAA
FileName : C:\USERS\EPA\8\8B13015.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 25 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:44
Time of Injection: 5/16/92 20:32
Low Point : 24.72 mV High Point : 79.72 mV
Plot Scale: 55 mV



"COPY
ORIGINAL IS FILED IN CSF DBT53", Case 18050
RD 06-03-92

Software Version: 3.2 (10J29)
Sample Name : INDAHAA
Sample Number:
Operator : LANE

Time : 5/17/92 16:38
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 20:32
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13015.raw
Result File : c:\users\epa\8\8B13015.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BIAH.prc
Sample File : C:\USERS\EPA\8\BIA.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

Total Number of Peaks Detected: 30

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.07	550	127		0.0
2	4.24	635	157		0.0
3	4.60	868	174		0.0
5	6.71	306383	78084	TCX	80.0
6	8.13	2796	532		0.0
7	9.27	239277	59710	ALPHA-BHC	80.0
8	10.94	235291	49214	GAMMA-BHC	80.0

457

9	11.55	518	80		0.0
10	11.81	1642	264		0.0
11	12.59	295851	42218	HEPTACHLOR	80.0
12	14.58	1992	188		0.0
13	15.84	5552	714		0.0
14	17.01	2057	341		0.0
15	18.37	560	90		0.0
16	18.70	180317	43879	ENDOSULFAN I	80.0
17	19.34	1696	300		0.0
18	19.58	365462	99198	DIELDRIN	160.0
19	20.67	259175	61467	ENDRIN	160.0
20	20.92	189681	46094	4,4'-DDD	160.0
22	21.90	210473	47988	4,4'-DDT	160.0
23	22.34	17116	2416		0.0
24	22.80	607	106		0.0
25	23.56	2077	327		0.0
26	25.43	608367	93743	METHOXYCHLOR	800.0
27	26.06	5101	720		0.0
28	26.32	12337	1674		0.0
29	31.38	1293	141		0.0
30	34.15	358289	28540	DCB	160.0
		3305963	658487		

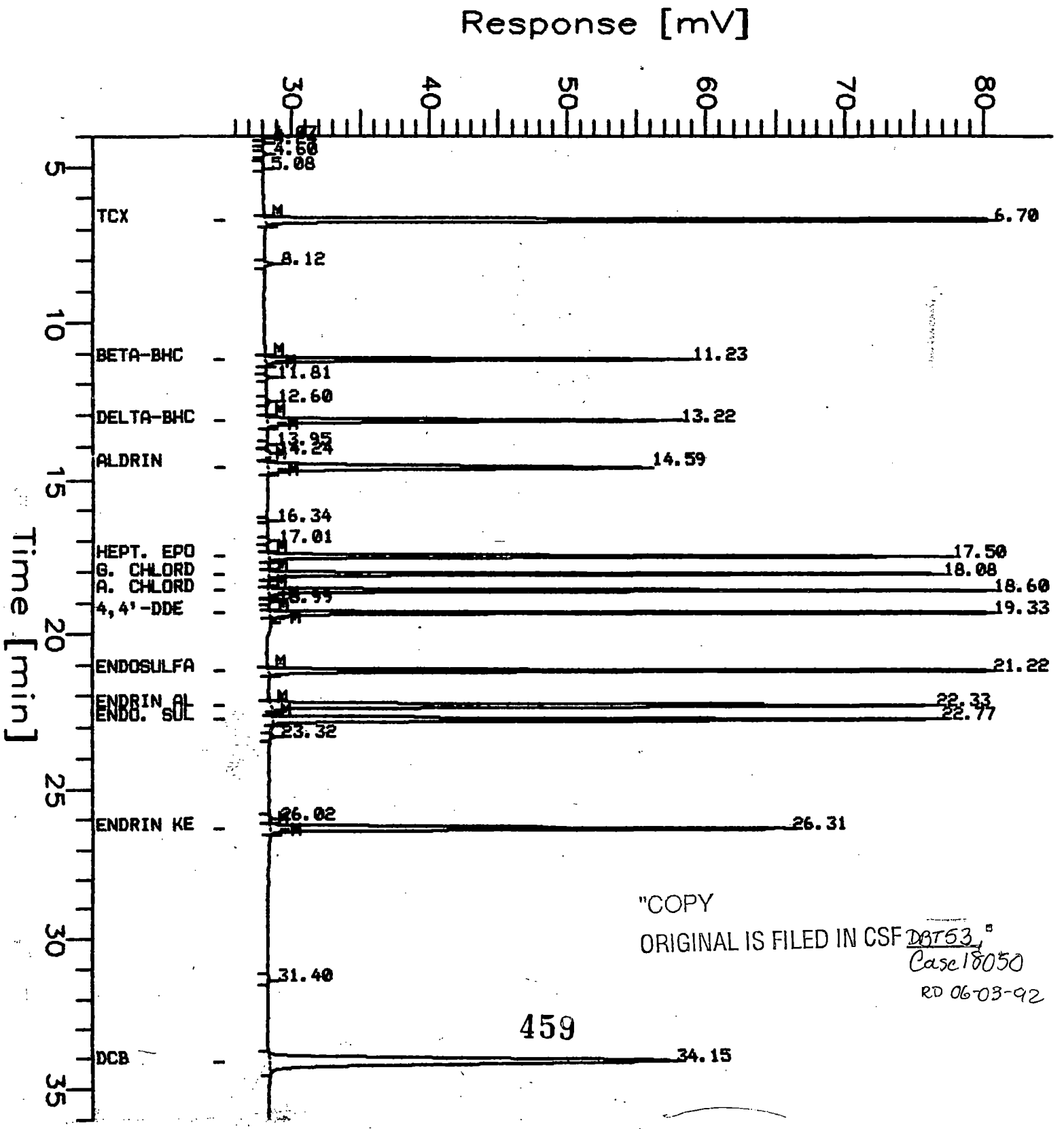
Report Stored in ASCII File: C:\USERS\EPA\8\8B13015.TX0

"COPY
ORIGINAL IS FILED IN CSF DB153, Case 18050
RD 06-03-92

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : INDBHAA
FileName : C:\USERS\EPA\8\8B13016.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 25 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:45
Time of Injection: 5/16/92 21:13
Low Point : 25.17 mV High Point : 80.17 mV
Plot Scale: 55 mV



"COPY
ORIGINAL IS FILED IN CSF DBT53,"
Case 18050
RD 06-03-92

Software Version: 3.2 (10J29)
Sample Name : INDBHAA
Sample Number:
Operator : LANE

Time : 5/17/92 16:38
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 21:13
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13016.raw
Result File : c:\users\epa\8\8B13016.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BIBH.prc
Sample File : C:\USERS\EPA\8\BIB.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBT53, RD 06-03-92

Case 18050

Total Number of Peaks Detected: 28

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.07	786	184		0.0
2	4.24	675	171		0.0
3	4.60	852	170		0.0
4	5.08	882	43		0.0
5	6.70	332996	86016	TCX	80.0
6	8.12	2968	578		0.0
7	11.23	154893	30257	BETA-BHC	80.0

460

8	11.81	1229	203		0.0
9	12.60	1665	214		0.0
10	13.22	169707	29318	DELTA-BHC	80.0
12	14.24	2057	265		0.0
13	14.59	222204	27216	ALDRIN	80.0
15	17.01	1200	204		0.0
16	17.50	235208	48960	HEPT. EPOXIDE	80.0
17	18.08	215717	48167	G. CHLORDANE	80.0
18	18.60	226436	53412	A. CHLORDANE	80.0
20	19.33	299740	90120	4,4'-DDE	160.0
21	21.22	296718	67530	ENDOSULFAN II	160.0
22	22.33	243540	47478	ENDRIN ALDEHYDE	160.0
23	22.77	246582	47711	ENDO. SULFATE	160.0
24	23.32	1589	242		0.0
25	26.02	1411	197		0.0
26	26.31	261195	37151	ENDRIN KETONE	160.0
27	31.40	1349	143		0.0
28	34.15	365904	28903	DCB	160.0
		3287501	644850		

Report Stored in ASCII File: C:\USERS\EPA\8\8B13016.TX0

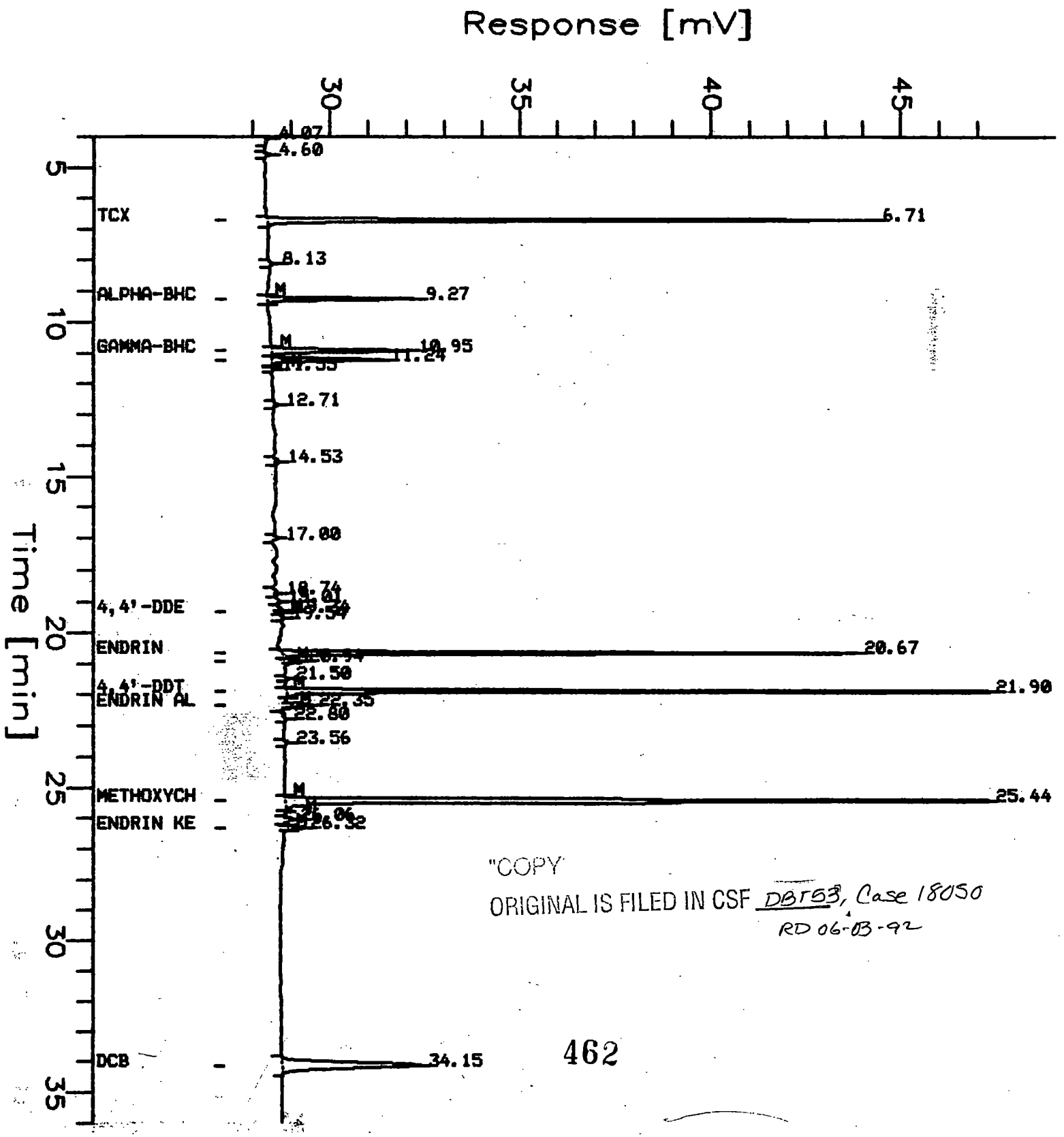
"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

19026·5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : PEMAB
FileName : C:\USERS\EPA\8\8813018.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 27 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:48
Time of Injection: 5/16/92 22:35
Low Point : 27.28 mV High Point : 47.28 mV
Plot Scale: 20 mV



"COPY"
ORIGINAL IS FILED IN CSF DB153, Case 18050
RD 06-03-92

Software Version: 3.2 (10J29)
Sample Name : PEMAB
Sample Number:
Operator : LANE

Time : 5/17/92 16:38
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 22:35
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13018.raw
Result File : c:\users\epa\8\8B13018.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BP.prc
Sample File : C:\USERS\EPA\8\BP.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

Total Number of Peaks Detected: 26

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.07	790	138		0.0
2	4.60	790	163		0.0
3	6.71	67435	16022	TCX	20.0
4	8.13	656	127		0.0
5	9.27	20011	3932	ALPHA-BHC	10.0
6	10.95	20833	3601	GAMMA-BHC	10.0
7	11.24	16573	2895	BETA-BHC	10.0

9	12.71	676	95		0.0
10	14.53	1019	126		0.0
11	17.00	716	110		0.0
12	18.74	943	85		0.0
13	19.01	516	66		0.0
16	20.67	69070	15157	ENDRIN	50.0
17	20.94	1180	279	4,4'-DDD	0.0
19	21.90	110332	24029	4,4'-DDT	100.0
20	22.35	2604	504	ENDRIN ALDEHYDE	0.0
21	22.80	1156	68		0.0
22	23.56	570	95		0.0
23	25.44	168456	25461	METHOXYCHLOR	250.0
24	26.06	1448	209		0.0
25	26.32	2086	362	ENDRIN KETONE	0.0
26	34.15	43885	3606	DCB	20.0
		531742	97130		

Report Stored in ASCII File: C:\USERS\EPA\8\8B13018.TX0

"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

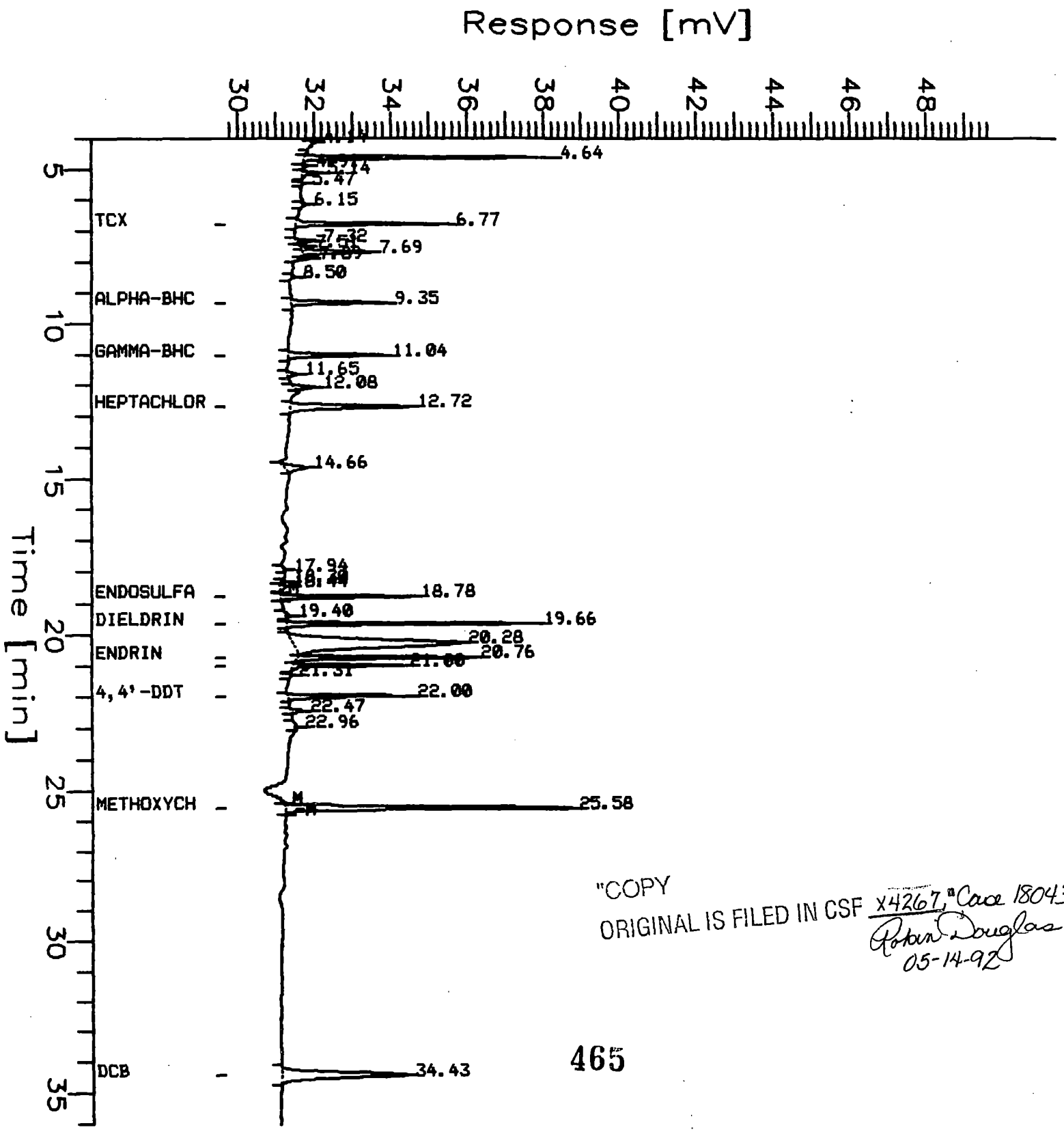
19026-5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : 157AC-8
FileName : C:\USERS\EPA\8\8B09020.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 30 mV

Sample #: FLRSL_CK
Date : 4/17/92 13:38
Time of Injection: 4/10/92 04:34
Low Point : 29.67 mV High Point : 49.67 mV
Plot Scale: 20 mV

Page 1 of 1



"COPY
ORIGINAL IS FILED IN CSF X4267, "Case 18043
Robin Douglas
05-14-92

Software Version: 3.2 (10J29)
Sample Name : 157AC-8 Time : 4/16/92 13:17
Sample Number: FLRSL_CK Study : 04/09/92 14:23
Operator : WPL

Instrument : 08 Channel : B A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 4/10/92 04:34
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B09020.raw
Result File : c:\users\epa\8\8B09020.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BIAM.prc
Sample File : C:\USERS\EPA\8\BMIX.smp
Sequence File : c:\users\epa\8\epa809.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 33

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
1	4.14	1139	134	
2	4.64	29911	6516	
3	4.91	721	149	
4	5.14	2303	430	
6	6.15	634	122	
7	6.77	17584	3971	TCX
8	7.32	2320	488	

"COPY
ORIGINAL IS FILED IN CSF X4267, Case 18043
Robin Douglas
05-14-92

9	7.51	834	166	
10	7.69	10842	1797	
11	7.89	1602	319	
12	8.50	541	109	
13	9.35	13024	2511	ALPHA-BHC
14	11.04	14326	2495	GAMMA-BHC
15	11.65	1577	247	
16	12.08	3114	523	
17	12.72	23680	3107	HEPTACHLOR
18	14.66	5250	555	
21	18.44	1299	146	
22	18.78	15669	3475	ENDOSULFAN I
23	19.40	954	121	
24	19.66	27532	6497	DIELDRIN
25	20.28	75512	4367	
26	20.76	21085	4591	ENDRIN
27	21.00	12937	2873	4,4'-DDD
29	22.00	15492	3177	4,4'-DDT
30	22.47	1796	327	
31	22.96	800	63	
32	25.58	49191	7469	METHOXYCHLOR
33	34.43	40744	3262	DCB
		392413	60003	

Report Stored in ASCII File: C:\USERS\EPA\8\8B09020.TX0

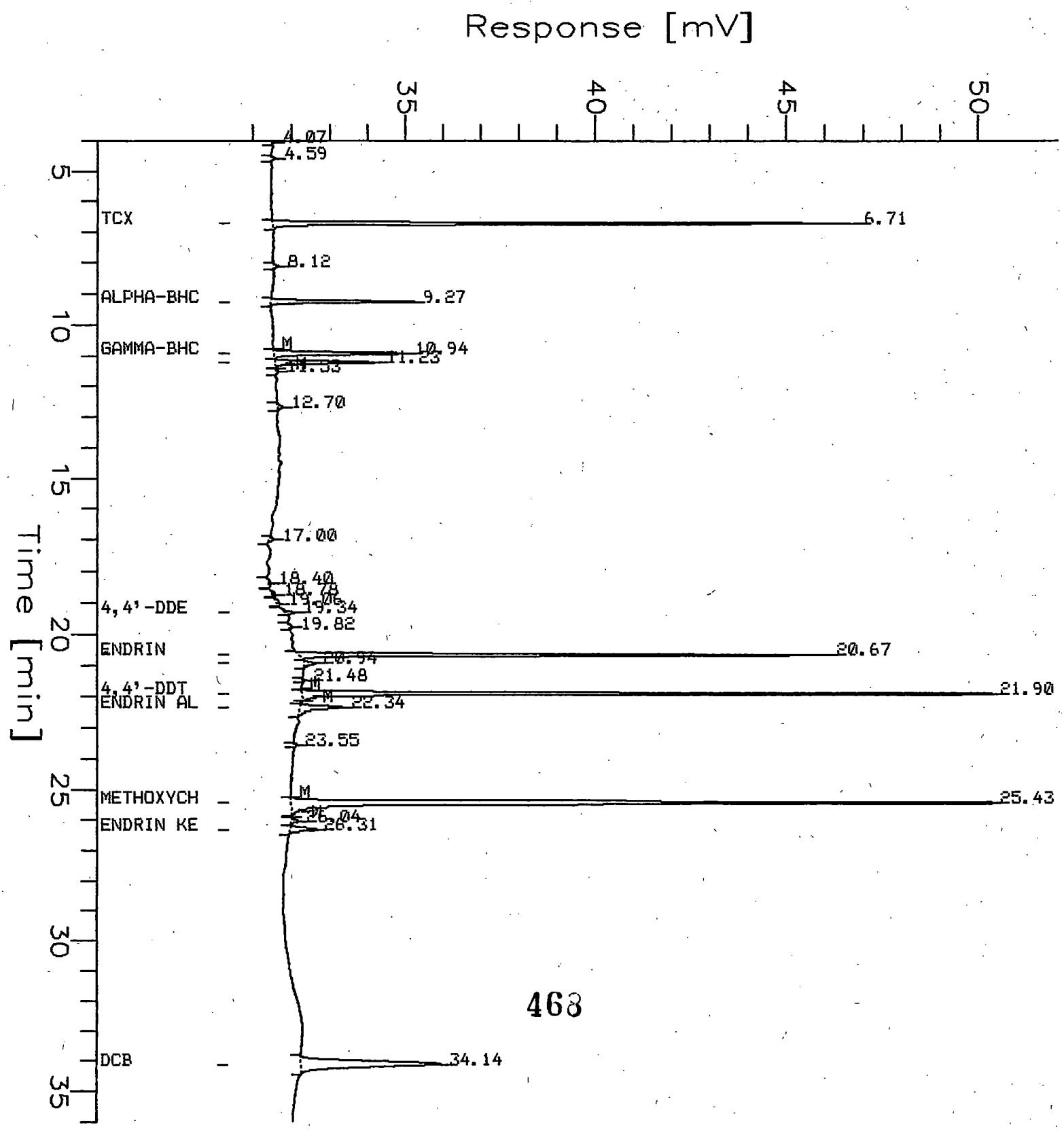
"COPY
ORIGINAL IS FILED IN CSF X4267 "Case 18043
Robin Douglas
05-14-92

19026-5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : PEMAF
FileName : C:\USERS\EPA\8\8B13093.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 30 mV

Sample #: Page 1 of 1
Date : 5/28/92 18:44
Time of Injection: 5/21/92 04:38
Low Point : 30.37 mV High Point : 50.37 mV
Plot Scale: 20 mV



Software Version: 3.2 (10J29)
Sample Name : PEMAF
Sample Number:
Operator : LANE

Time : 6/2/92 05:50
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/21/92 04:38
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13093.raw
Result File : c:\users\epa\8\8B13093.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BP.prc
Sample File : C:\USERS\EPA\8\BP.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 25

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
3	6.71	62732	15323	TCX	20.0
4	8.12	631	131		0.0
5	9.27	18688	3787	ALPHA-BHC	10.0
6	10.94	19581	3489	GAMMA-BHC	10.0
7	11.23	15307	2689	BETA-BHC	10.0
9	12.70	1001	139		0.0
10	17.00	672	111		0.0

11	18.40	862	62		0.0
12	18.78	887	68		0.0
13	19.06	704	60		0.0
14	19.34	560	172	4,4'-DDE	0.0
15	19.82	529	61		0.0
16	20.67	63292	13913	ENDRIN	50.0
17	20.94	872	189	4,4'-DDD	0.0
19	21.90	104940	21961	4,4'-DDT	100.0
20	22.34	3751	768	ENDRIN ALDEHYDE	0.0
22	25.43	146746	20494	METHOXYCHLOR	250.0
23	26.04	1183	167		0.0
24	26.31	2240	425	ENDRIN KETONE	0.0
25	34.14	46346	3672	DCB	20.0
		491523	87680		

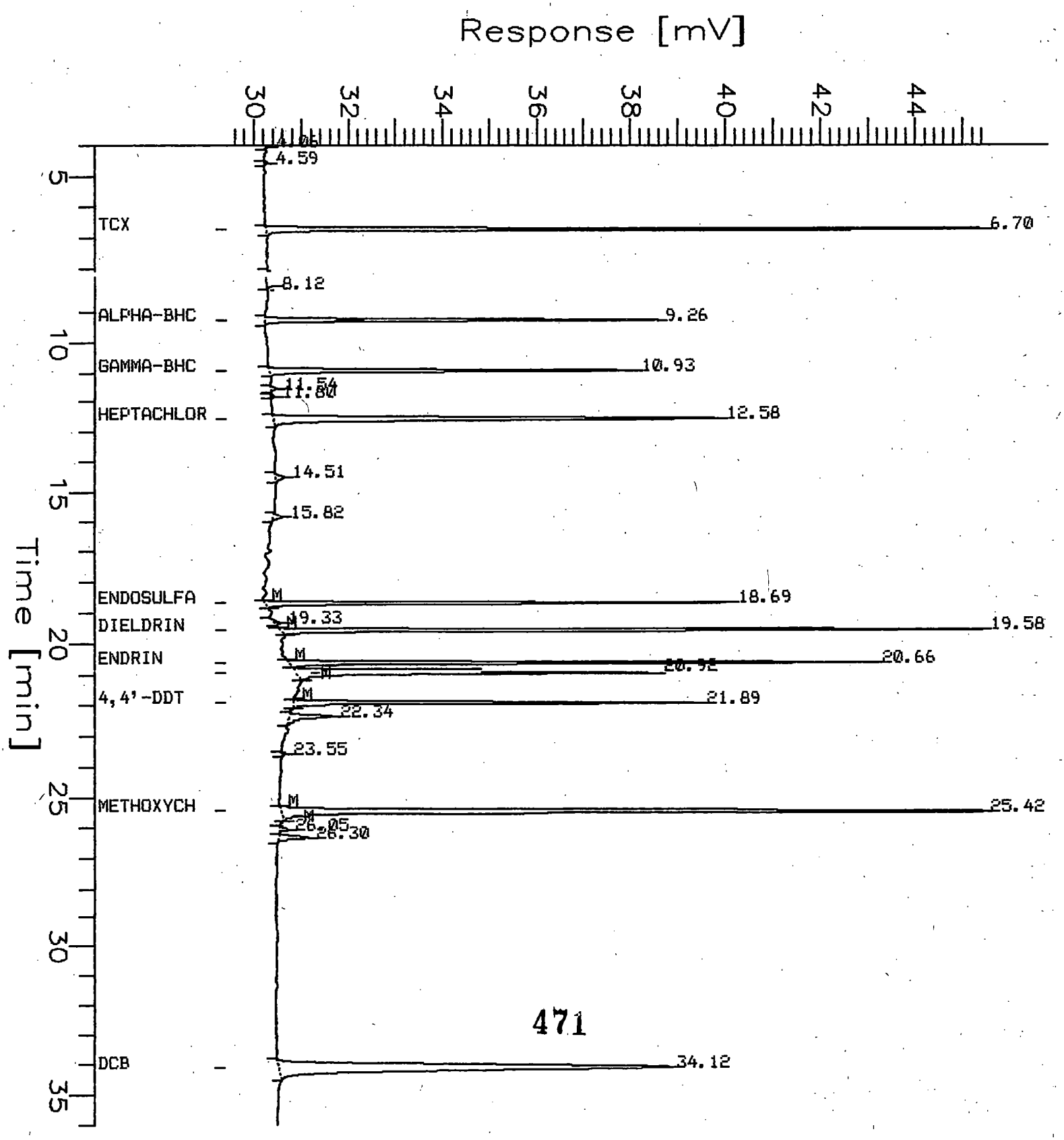
Report Stored in ASCII File: C:\USERS\EPA\8\8B13093.TX0

19026·5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : INDAMAE
FileName : C:\USERS\EPA\8\8B13108.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 29 mV

Sample #: Page 1 of 1
Date : 5/28/92 18:59
Time of Injection: 5/21/92 14:57
Low Point : 29.41 mV High Point : 45.41 mV
Plot Scale: 16 mV



471

Software Version: 3.2 (10J29)
Sample Name : INDAMAE
Sample Number:
Operator : LANE

Time : 6/2/92 06:15
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/21/92 14:57
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13108.raw
Result File : c:\users\epa\8\8B13108.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BIAM.prc
Sample File : C:\USERS\EPA\8\BIAC.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 23

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
3	6.70	67747	16397	TCX	20.0
4	8.12	667	135		0.0
5	9.26	39599	8343	ALPHA-BHC	20.0
6	10.93	41895	7730	GAMMA-BHC	20.0
7	11.54	743	116		0.0
9	12.58	68935	9421	HEPTACHLOR	20.0
10	14.51	1596	178		0.0

11	15.82	1299	174		0.0
12	18.69	43153	9851	ENDOSULFAN I	20.0
13	19.33	897	126		0.0
14	19.58	78404	19217	DIELDRIN	40.0
15	20.66	56658	12376	ENDRIN	40.0
16	20.92	39531	7701	4,4'-DDD	40.0
17	21.89	42412	8594	4,4'-DDT	40.0
18	22.34	7554	914		0.0
20	25.42	125625	18005	METHOXYCHLOR	200.0
21	26.05	1060	156		0.0
22	26.30	4541	607		0.0
23	34.12	106334	8275	DCB	40.0
		728649	128316		

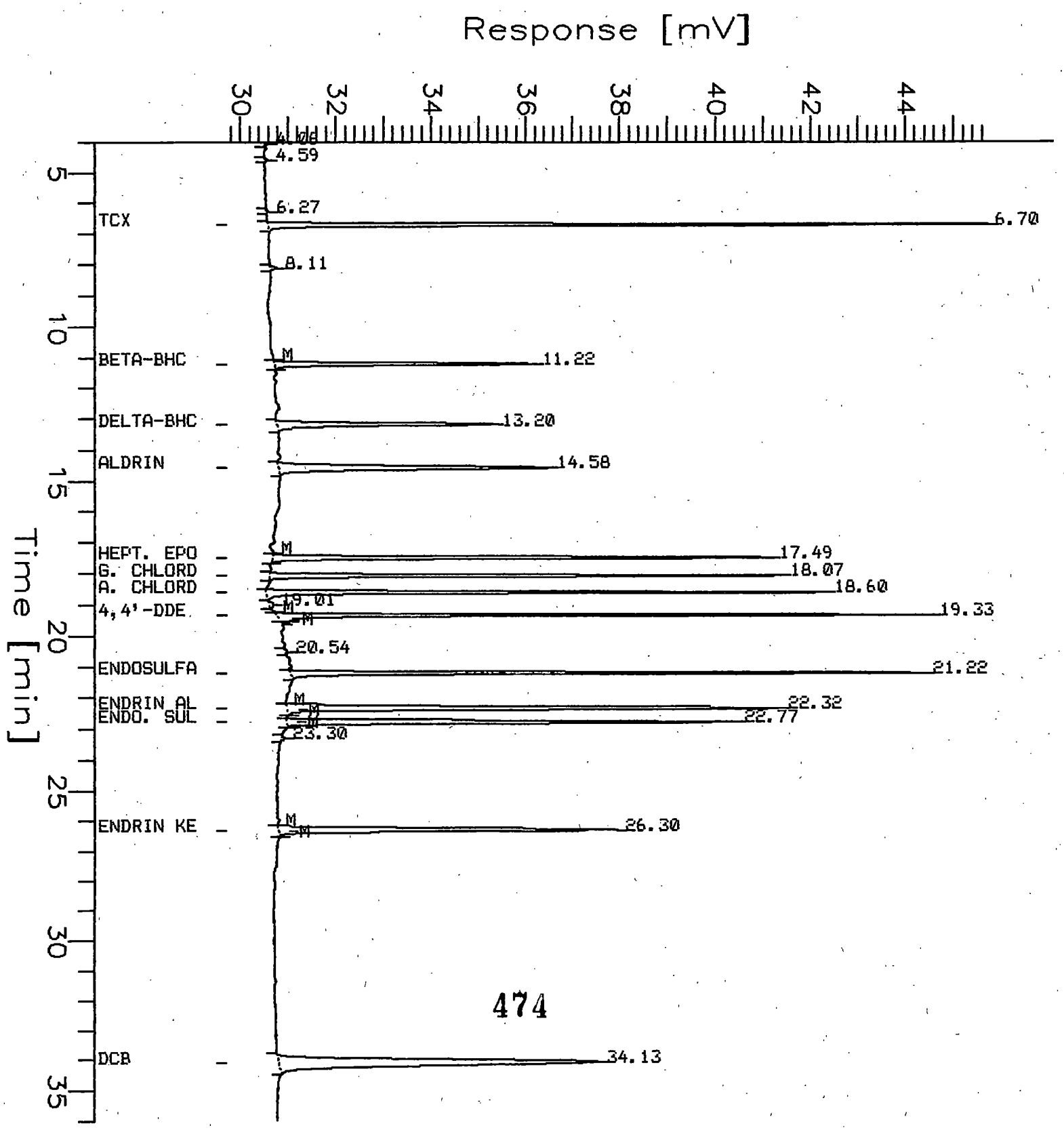
Report Stored in ASCII File: C:\USERS\EPA\8\8B13108.TX0

19026·5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : INDBMAE
FileName : C:\USERS\EPA\8\8B13109.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 30 mV

Sample #: Page 1 of 1
Date : 5/28/92 19:00
Time of Injection: 5/21/92 15:38
Low Point : 29.70 mV High Point : 45.70 mV
Plot Scale: 16 mV



Software Version: 3.2 (10J29)
Sample Name : INDBMAE
Sample Number:
Operator : LANE

Time : 6/2/92 06:16
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/21/92 15:38
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13109.raw
Result File : c:\users\epa\8\8B13109.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BIBM.prc
Sample File : C:\USERS\EPA\8\BIBC.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 20

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
4	6.70	71029	17285	TCX	20.0
5	8.11	690	142		0.0
6	11.22	30232	5479	BETA-BHC	20.0
7	13.20	30732	4554	DELTA-BHC	20.0
8	14.58	49795	5688	ALDRIN	20.0
9	17.49	54688	10540	HEPT. EPOXIDE	20.0
10	18.07	50006	10778	G. CHLORDANE	20.0

11	18.60	52801	11784	A. CHLORDANE	20.0
12	19.01	838	88		0.0
13	19.33	57343	13880	4,4'-DDE	40.0
15	21.22	63939	13386	ENDOSULFAN II	40.0
16	22.32	56951	10398	ENDRIN ALDEHYDE	40.0
17	22.77	52480	9456	ENDO. SULFATE	40.0
18	23.30	527	83		0.0
19	26.30	53679	7139	ENDRIN KETONE	40.0
20	34.13	87920	6756	DCB	40.0
		713649	127434		

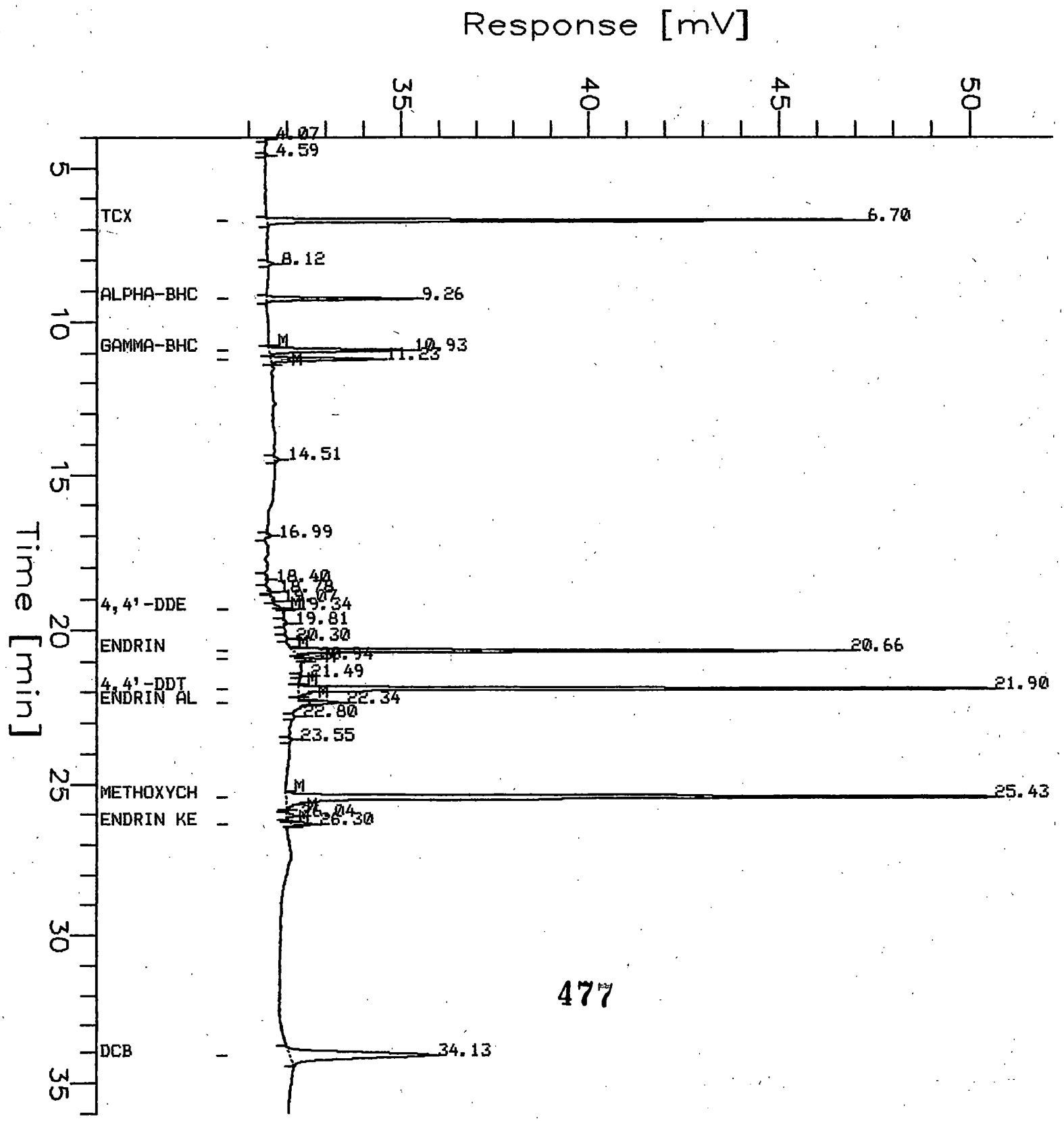
Report Stored in ASCII File: C:\USERS\EPA\8\8B13109.TX0

19026:5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : PEMAG
FileName : C:\USERS\EPA\8\8B13123.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 30 mV

Sample #: Page 1 of 1
Date : 5/28/92 19:14
Time of Injection: 5/22/92 01:15
Low Point : 30.43 mV High Point : 50.43 mV
Plot Scale: 20 mV



Software Version: 3.2 (10J29)
Sample Name : PEMAG
Sample Number:
Operator : LANE

Time : 6/2/92 09:35
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/22/92 01:15
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13123.raw
Result File : c:\users\epa\8\8B13123.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BP.prc
Sample File : C:\USERS\EPA\8\BP.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 26

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
3	6.70	64418	15720	TCX	20.0
4	8.12	626	133		0.0
5	9.26	19163	3879	ALPHA-BHC	10.0
6	10.93	20125	3571	GAMMA-BHC	10.0
7	11.23	15625	2775	BETA-BHC	10.0
8	14.51	815	108		0.0
9	16.99	708	110		0.0

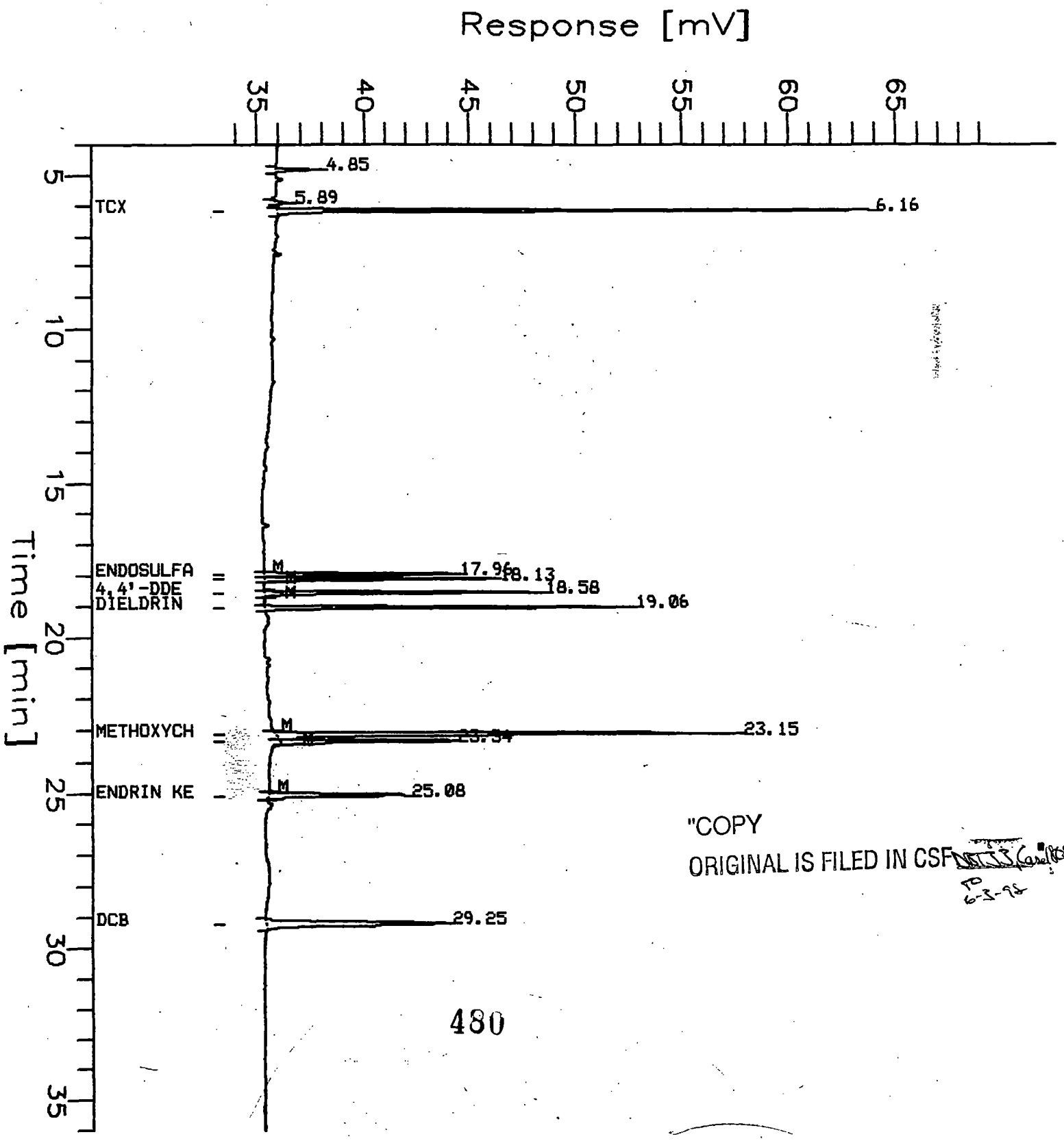
10	18.40	841	63		0.0
11	18.78	803	57	ENDOSULFAN I	0.0
12	19.07	636	52		0.0
14	19.81	764	87		0.0
16	20.66	65356	14516	ENDRIN	50.0
17	20.94	756	172	4,4'-DDD	0.0
19	21.90	107961	22476	4,4'-DDT	100.0
20	22.34	2550	571	ENDRIN ALDEHYDE	0.0
23	25.43	148874	21071	METHOXYCHLOR	250.0
24	26.04	1175	172		0.0
25	26.30	2800	485	ENDRIN KETONE	0.0
26	34.13	47066	3656	DCB	20.0
		501061	89672		

Report Stored in ASCII File: C:\USERS\EPA\8\8B13123.TX0

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : RESCAA
FileName : C:\USERS\EPA\8\8A13002.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 33 mV

Sample #: Page 1 of 1
Date : 5/19/92 22:20
Time of Injection: 5/16/92 11:36
Low Point : 33.45 mV High Point : 69.45 mV
Plot Scale: 36 mV

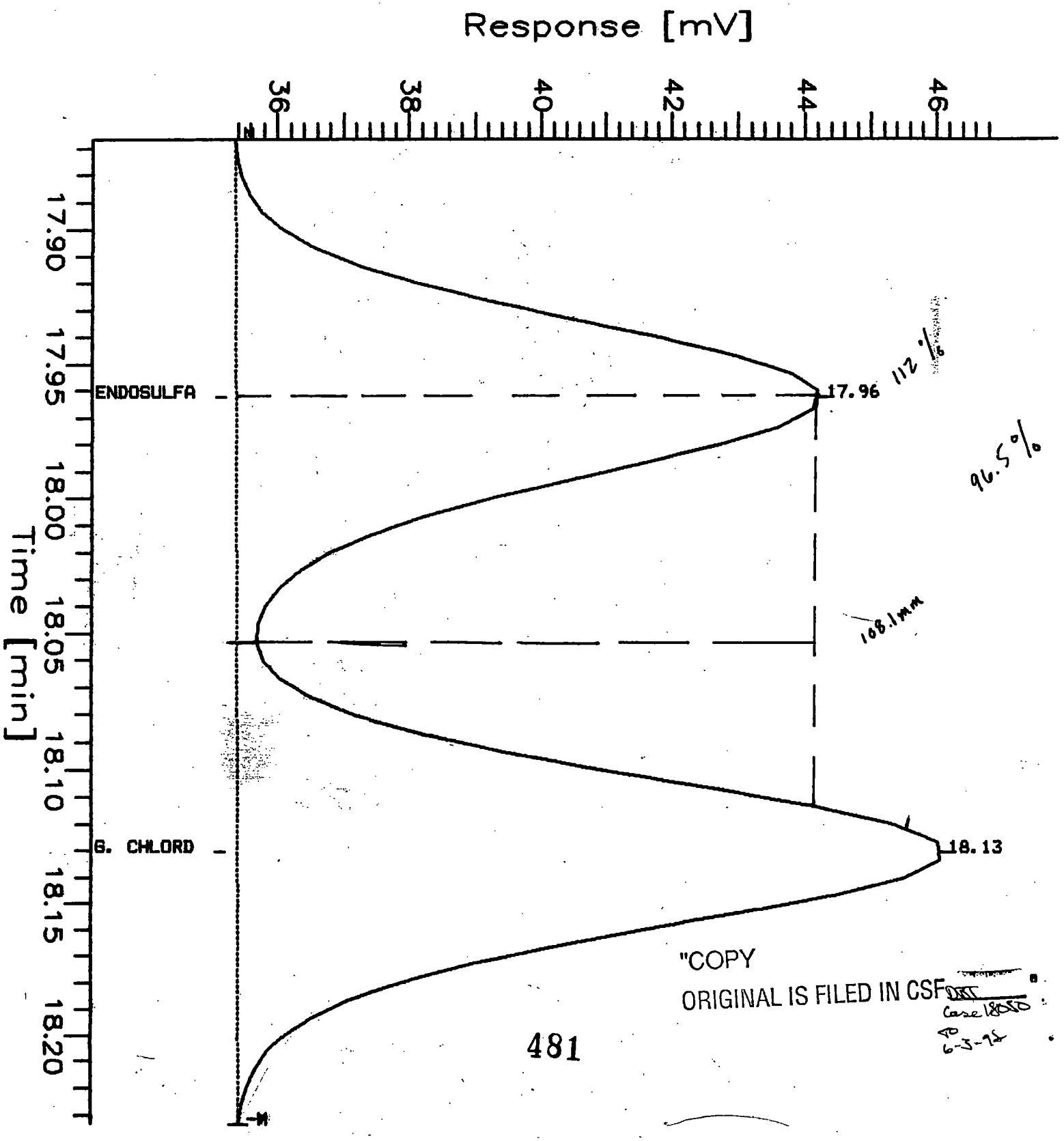


"COPY
ORIGINAL IS FILED IN CSF

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : RESCAA
FileName : C:\USERS\EPA\8\8A13002.raw
Method : EPA8A.ins
Start Time : 17.87 min End Time : 18.23 min
Scale Factor: 0 Plot Offset: 35 mV

Sample #: Page 1 of 1
Date : 5/20/92 09:37
Time of Injection: 5/16/92 11:36
Low Point : 35.22 mV High Point : 46.80 mV
Plot Scale: 12 mV



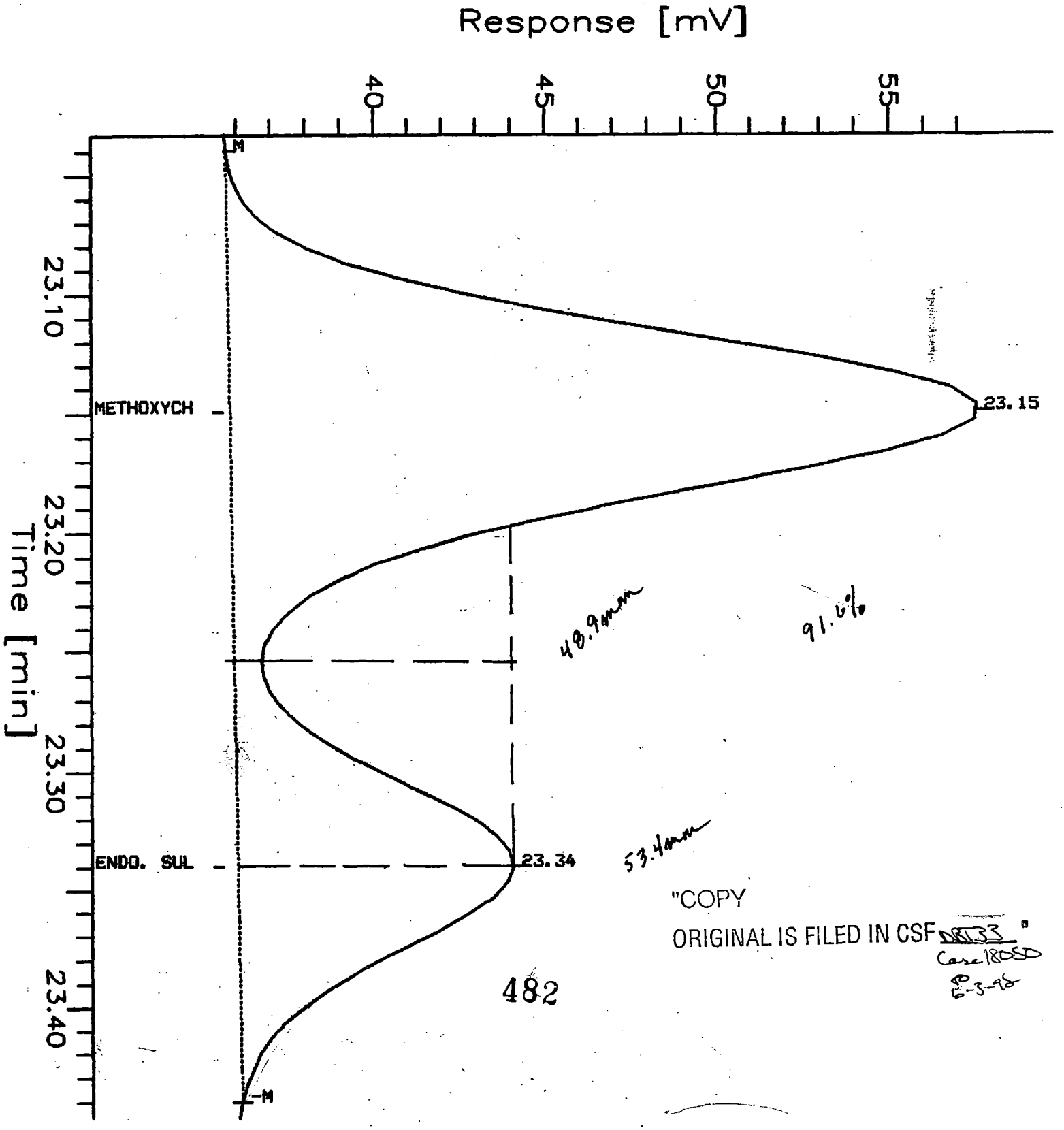
"COPY
ORIGINAL IS FILED IN CSF

Case 18050
6-3-92

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : RESCAA
FileName : C:\USERS\EPA\8\8A13002.raw
Method : EPA8A.ins
Start Time : 23.03 min End Time : 23.45 min
Scale Factor: 0 Plot Offset: 36 mV

Sample #: Page 1 of 1
Date : 5/20/92 10:00
Time of Injection: 5/16/92 11:36
Low Point : 35.64 mV High Point : 57.84 mV
Plot Scale: 22 mV



"COPY
ORIGINAL IS FILED IN CSF 08133"
Case 18050
6-3-98

Software Version: 3.2 (10J29)
Sample Name : RESCAA
Sample Number:
Operator : LANE

Time : 5/17/92 16:41
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 11:36
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13002.raw
Result File : c:\users\epa\8\8A13002.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AR.prc
Sample File : C:\USERS\EPA\8\AR.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF 18133"
Case 18050
to 6-3-92

Total Number of Peaks Detected: 11

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	7058	1954		0.0
2	5.89	2082	456		0.0
3	6.16	103618	27892	TCX	20.0
4	17.96	38418	8850	ENDOSULFAN I	10.0
5	18.13	44585	10701	G. CHLORDANE	10.0
6	18.58	51736	12887	4,4'-DDE	20.0
7	19.06	63235	17095	DIELDRIN	20.0

8	23.15	109871	21745	METHOXYCHLOR	100.0
9	23.34	41668	8009	ENDO. SULFATE	20.0
10	25.08	39774	6371	ENDRIN KETONE	20.0
11	29.25	73040	8383	DCB	20.0
		575083	124342		

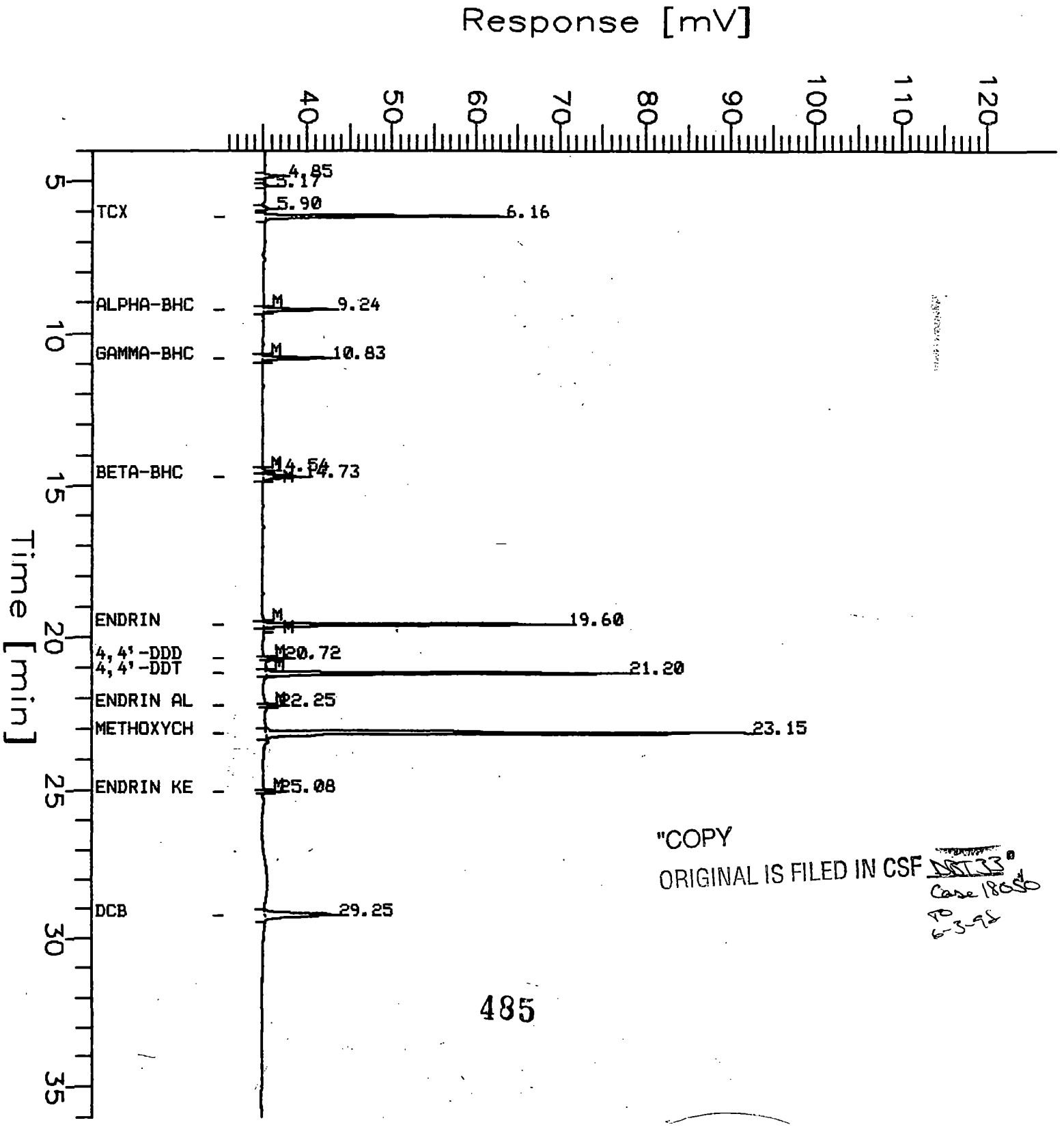
Report Stored in ASCII File: C:\USERS\EPA\8\8A13002.TX0

"COPY
ORIGINAL IS FILED IN CSF DRT 33
Case 18050
PD
6-3-98

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : PEMAA
FileName : C:\USERS\EPA\8\8A13003.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 30 mV

Sample #: Page 1 of 1
Date : 5/19/92 22:21
Time of Injection: 5/16/92 12:17
Low Point : 30.34 mV High Point : 120.34 mV
Plot Scale: 90 mV

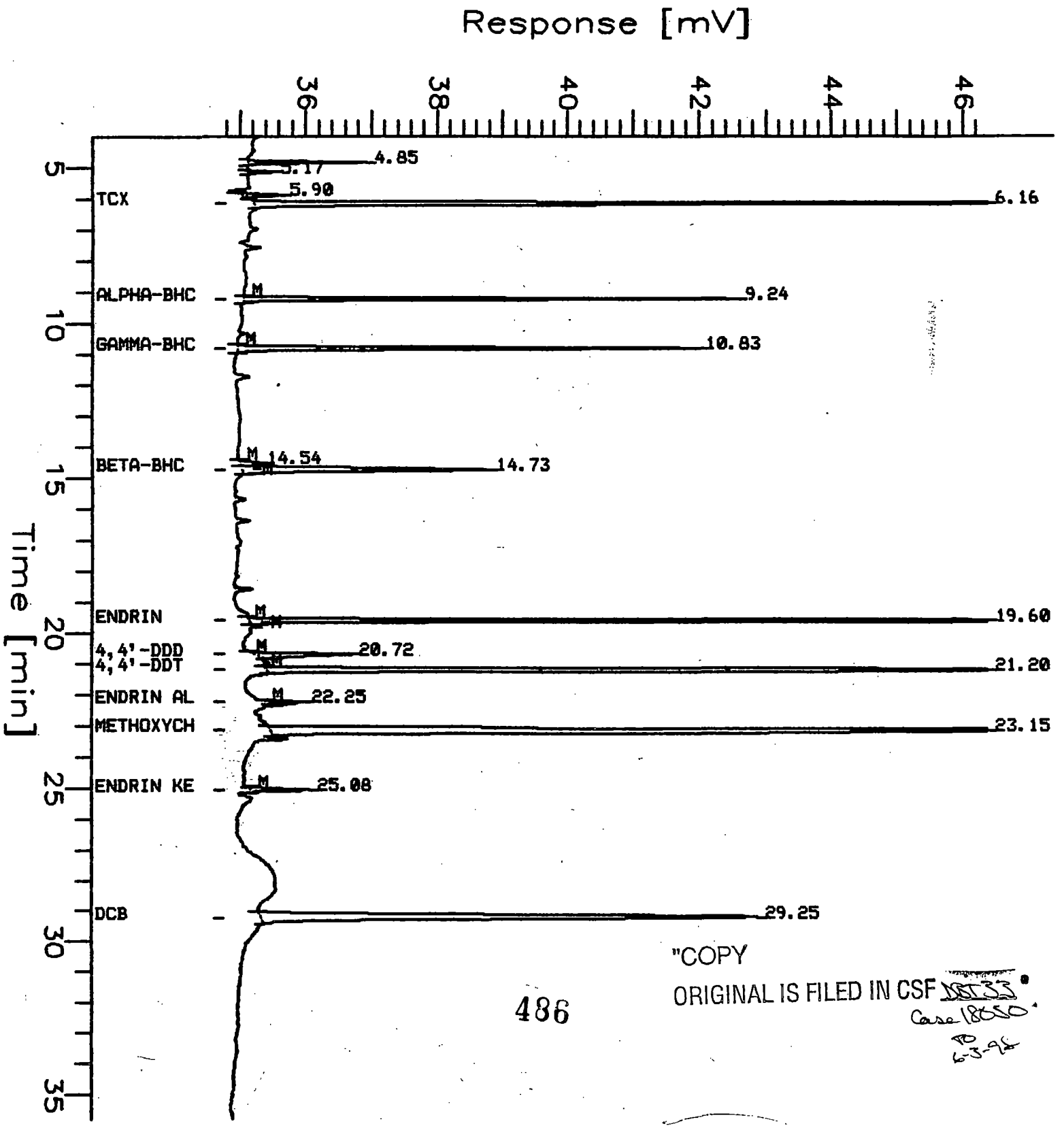


"COPY
ORIGINAL IS FILED IN CSF NST33"
Case 18050
TO
6-3-98

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : PEMAA
FileName : C:\USERS\EPA\8\8A13003.raw
Method : EPA8A.ins
Start Time : 4.01 min End Time : 35.81 min
Scale Factor: 0 Plot Offset: 35 mV

Sample #: Page 1 of 1
Date : 5/20/92 08:44
Time of Injection: 5/16/92 12:17
Low Point : 34.77 mV High Point : 46.36 mV
Plot Scale: 12 mV



"COPY
ORIGINAL IS FILED IN CSF DST 33"
Case 18550
6-3-96

Software Version: 3.2 (10J29)
Sample Name : PEMAA
Sample Number:
Operator : LANE

Time : 5/17/92 16:41
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 12:17
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13003.raw
Result File : c:\users\epa\8\8A13003.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AP.prc
Sample File : C:\USERS\EPA\8\AP.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF 33"
Case 18050
TO
6-3-96

Total Number of Peaks Detected: 15

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	6600	1817		0.0
2	5.17	1418	383		0.0
3	5.90	2701	562		0.0
4	6.16	101747	27553	TCX	20.0
5	9.24	33132	7529	ALPHA-BHC	10.0
6	10.83	35344	7013	GAMMA-BHC	10.0
7	14.54	2159	285		0.0

8	14.73	26654	3742	BETA-BHC	10.0
9	19.60	127844	35178	ENDRIN	50.0
10	20.72	4299	1033	4,4'-DDD	0.0
11	21.20	166478	41778	4,4'-DDT	100.0
12	22.25	1664	385	ENDRIN ALDEHYDE	0.0
13	23.15	286623	56317	METHOXYCHLOR	250.0
14	25.08	3264	706	ENDRIN KETONE	0.0
15	29.25	66386	7551	DCB	20.0
		866313	191831		

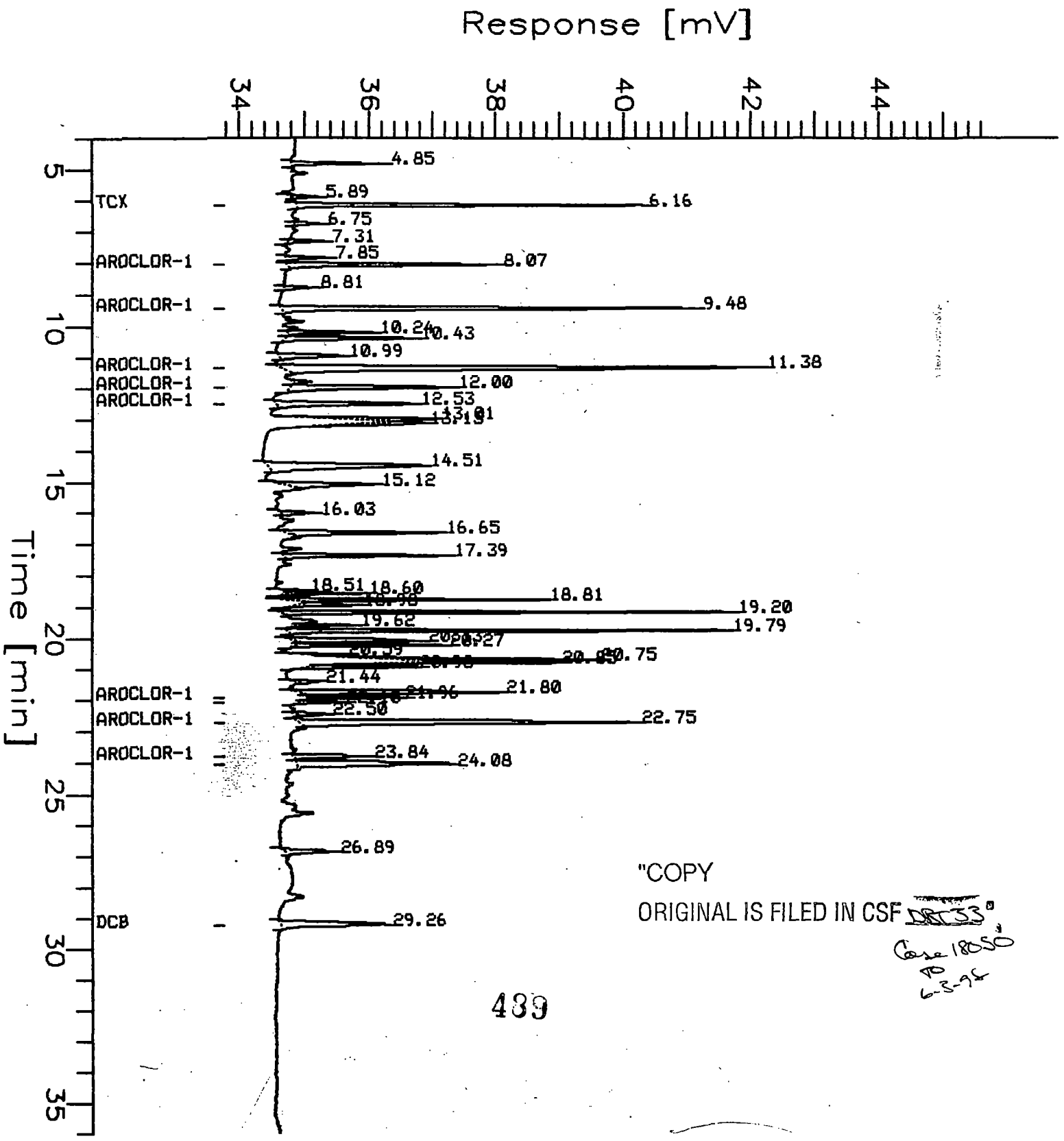
Report Stored in ASCII File: C:\USERS\EPA\8\8A13003.TX0

"COPY
ORIGINAL IS FILED IN CSF DRT33"
Case 180SD
to
6-3-92

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : AR1660AA
FileName : c:\users\epa\8\8A13004.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 34 mV

Sample #: Page 1 of 1
Date : 5/19/92 22:22
Time of Injection: 5/16/92 12:58
Low Point : 33.76 mV High Point : 45.76 mV
Plot Scale: 12 mV



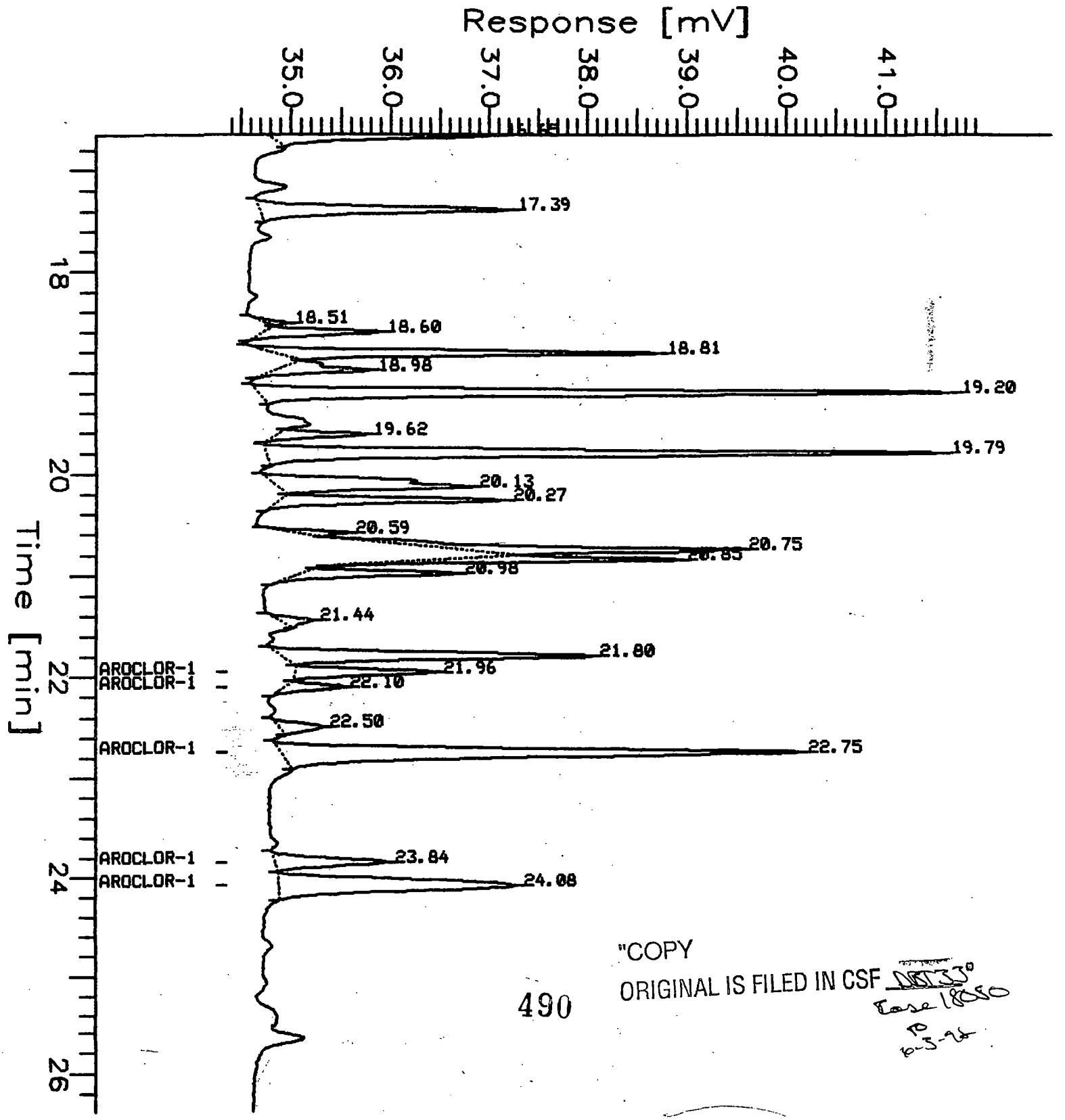
"COPY
ORIGINAL IS FILED IN CSF DRC33"

Case 18050
TO
6-3-96

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : AR16600A
FileName : C:\USERS\EPA\8\8A13004.raw
Method : EPA8A.ins
Start Time : 16.65 min End Time : 26.38 min
Scale Factor: 0 Plot Offset: 34 mV

Sample #: Page 1 of 1
Date : 5/20/92 08:57
Time of Injection: 5/16/92 12:58
Low Point : 34.35 mV High Point : 42.00 mV
Plot Scale: 8 mV



"COPY
ORIGINAL IS FILED IN CSF
Case 18050
PO
6-3-92

Software Version: 3.2 (10J29)

Sample Name : AR1660AA
Sample Number:
Operator : LANE

Time : 5/19/92 21:09
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 12:58
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : c:\users\epa\8\8A13004.raw
Result File : c:\users\epa\8\8A13004.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\A1660.prc
Sample File : C:\USERS\EPA\8\A1660.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DRT 33"
Case 18050
6-3-96

Total Number of Peaks Detected: 45

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	5201	1432		0.0
2	5.89	1702	378		0.0
3	6.16	21308	5411	TCX	20.0
4	6.75	1475	379		0.0
5	7.31	2558	551		0.0
6	7.85	2821	626		0.0
7	8.07	15234	3264	AROCLOR-1016	100.0

8	8.81	1921	424		0.0
9	9.48	31768	6488	AROCLOR-1016-2	100.0
10	10.24	5998	1305		0.0
11	10.43	10000	2004		0.0
12	10.99	6172	949		0.0
13	11.38	51580	7456	AROCLOR-1016-3	100.0
14	12.00	16157	2508	AROCLOR-1016-4	100.0
15	12.53	13597	2126	AROCLOR-1016-5	100.0
16	13.01	6356	1187		0.0
17	13.13	7618	796		0.0
18	14.51	23546	2399		0.0
19	15.12	9236	1330		0.0
20	16.03	2835	493		0.0
21	16.65	12556	2322		0.0
22	17.39	12246	2525		0.0
23	18.51	667	209		0.0
24	18.60	4207	1154		0.0
25	18.81	14490	3878		0.0
26	18.98	4162	950		0.0
27	19.20	27006	7000		0.0
28	19.62	3073	885		0.0
29	19.79	27993	6830		0.0
30	20.13	12426	1952		0.0
31	20.27	8899	2293		0.0
32	20.59	1521	465		0.0
33	20.75	11441	2762		0.0
34	20.85	7610	2417		0.0
35	20.98	6200	1606		0.0
36	21.44	1356	319		0.0
37	21.80	14794	3153		0.0
38	21.96	5978	1418	AROCLOR-1260	100.0
39	22.10	2328	572	AROCLOR-1260-2	100.0
40	22.50	2143	423		0.0
41	22.75	30421	5243	AROCLOR-1260-3	100.0
42	23.84	5954	1120	AROCLOR-1260-4	100.0
43	24.08	19532	2390	AROCLOR-1260-5	100.0
44	26.89	5055	709		0.0
45	29.26	13779	1610	DCB	20.0
		492917	95710		

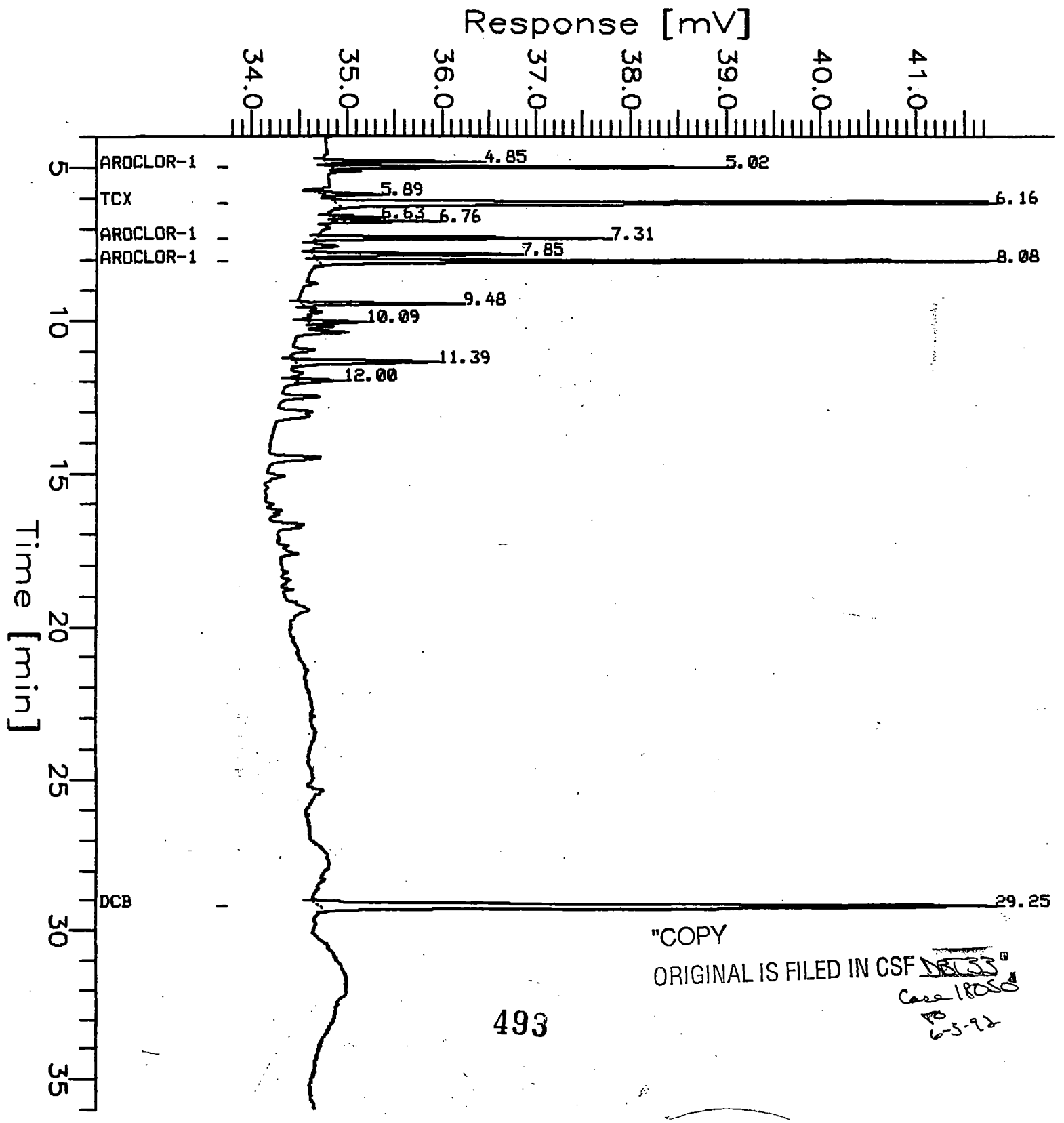
Report Stored in ASCII File: c:\users\epa\8\8A13004.TX0

"COPY
ORIGINAL IS FILED IN CSF DS133"
Case 18050
TO
6-3-98

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : AR1221AA
FileName : c:\users\epa\8\8A13005.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 34 mV

Sample #:
Date : 5/19/92 22:23
Time of Injection: 5/16/92 13:39
Low Point : 33.74 mV High Point : 41.74 mV
Plot Scale: 8 mV



"COPY
ORIGINAL IS FILED IN CSF DB133"
Case 18050
PO 6-3-92

Software Version: 3.2 (10J29)
Sample Name : AR1221AA Time : 5/17/92 16:42
Sample Number: Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : A A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/16/92 13:39
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : c:\users\epa\8\8A13005.raw
Result File : c:\users\epa\8\8A13005.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\A1221.prc
Sample File : C:\USERS\EPA\8\A1221.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DRT33"
Case 18050
PO
6-5-92

Total Number of Peaks Detected: 14

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	5777	1600		0.0
2	5.02	15161	4075	AROCLOR-1221	200.0
3	5.89	2505	513		0.0
4	6.16	109776	28599	TCX	20.0
5	6.63	1480	419		0.0
6	6.76	4097	1025		0.0
7	7.31	13952	3044	AROCLOR-1221-2	200.0

8	7.85	9714	2122		0.0
9	8.08	36052	7581	AROCLOR-1221-3	200.0
10	9.48	7725	1606		0.0
11	10.09	2539	505		0.0
12	11.39	9353	1395		0.0
13	12.00	1975	382		0.0
14	29.25	65020	7405	DCB	20.0
		285126	60270		

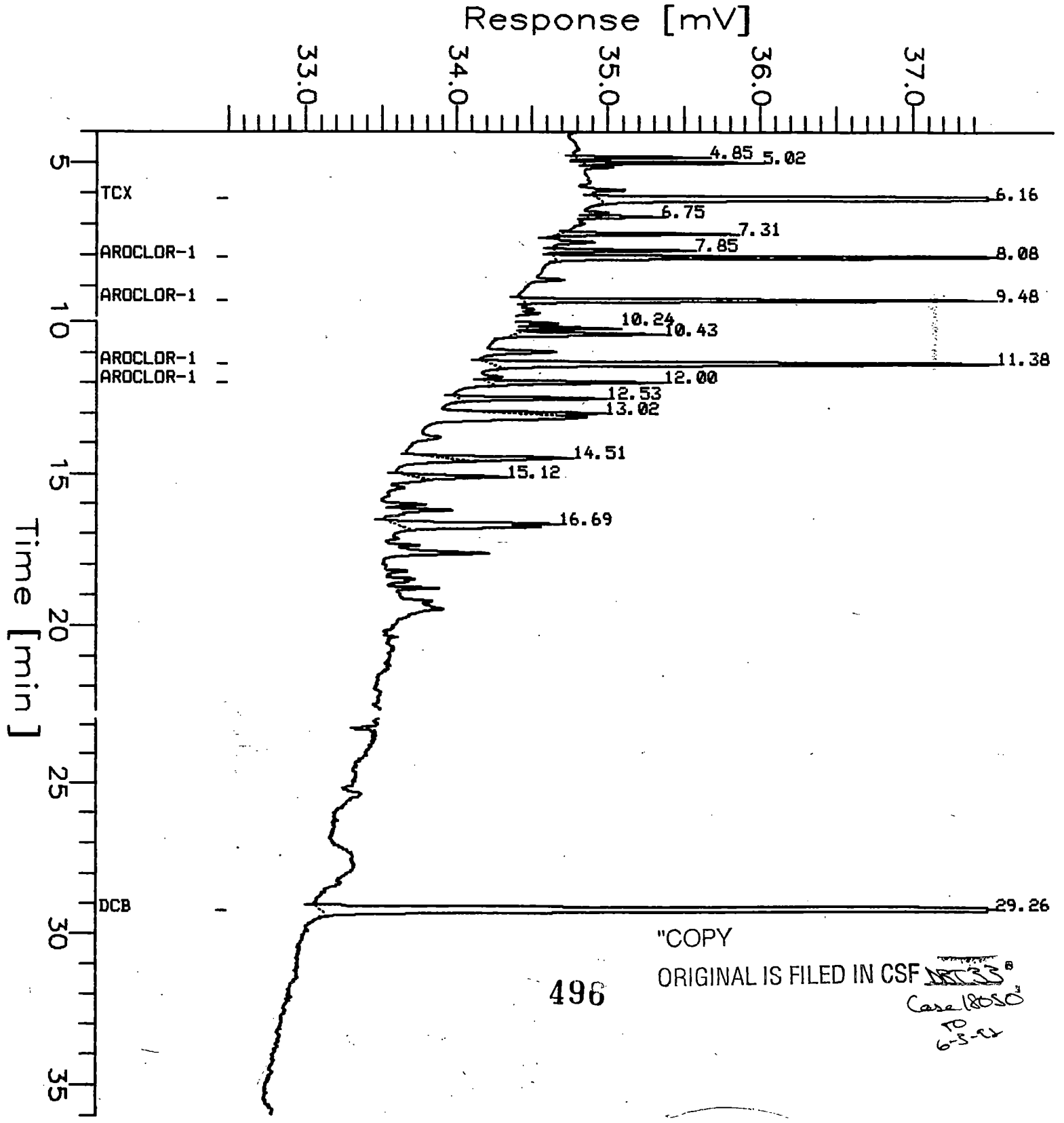
Report Stored in ASCII File: c:\users\epa\8\8A13005.TX0

"COPY
ORIGINAL IS FILED IN CSF 55135"
Case 18050
6-3-96

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : AR12320A
FileName : c:\users\epa\8\8A13006.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 33 mV

Sample #:
Date : 5/19/92 22:24
Time of Injection: 5/16/92 14:21
Low Point : 32.49 mV High Point : 37.49 mV
Plot Scale: 5 mV



"COPY
ORIGINAL IS FILED IN CSF

Case 18050
TO
6-5-92

Software Version: 3.2 (10J29)
Sample Name : AR1232AA
Sample Number:
Operator : LANE

Time : 5/17/92 16:42
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 14:21
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : c:\users\epa\8\8A13006.raw
Result File : c:\users\epa\8\8A13006.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\A1232.prc
Sample File : C:\USERS\EPA\8\A1232.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF

Case 18050
TO
6-3-98

Total Number of Peaks Detected: 18

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	2957	815		0.0
2	5.02	4209	1127		0.0
3	6.16	107087	28506	TCX	20.0
4	6.75	1637	421		0.0
5	7.31	5413	1129		0.0
6	7.85	3852	859		0.0
7	8.08	17589	3720	AROCLOR-1232	100.0

8	9.48	14943	3055	AROCLOR-1232-2	100.0
9	10.24	2403	561		0.0
10	10.43	4728	927		0.0
11	11.38	23717	3445	AROCLOR-1232-3	100.0
12	12.00	6411	1090	AROCLOR-1232-4	100.0
13	12.53	5681	923		0.0
14	13.02	2504	463		0.0
15	14.51	5635	777		0.0
16	15.12	3597	547		0.0
17	16.69	10974	1035		0.0
18	29.26	66447	7536	DCB	20.0
		289782	56935		

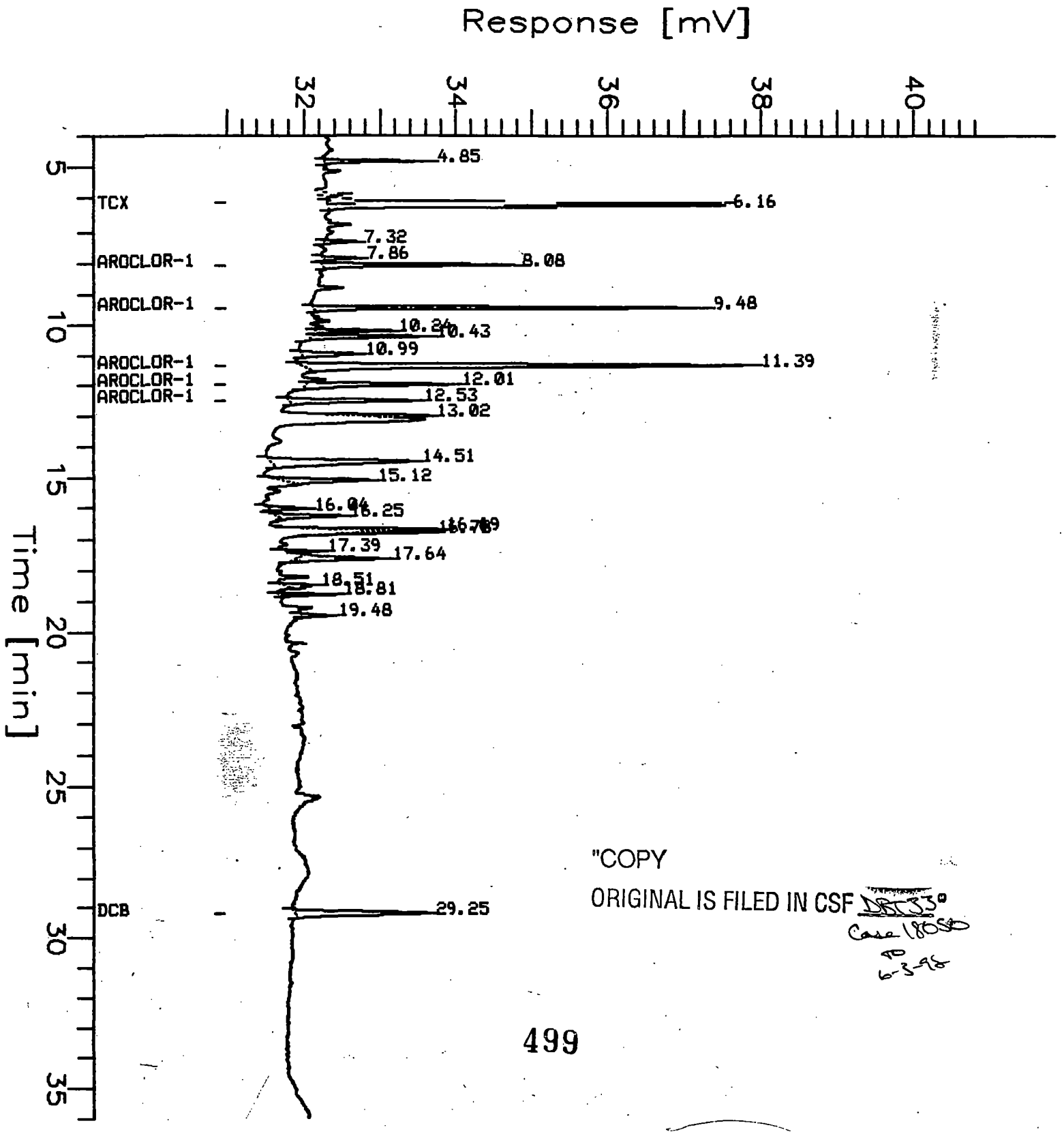
Report Stored in ASCII File: c:\users\epa\8\8A13006.TX0

"COPY
ORIGINAL IS FILED IN CSF
Case 18050
6-3-92

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : AR1242AA
FileName : c:\users\epa\8\8A13007.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 31 mV

Sample #: Page 1 of 1
Date : 5/19/92 22:24
Time of Injection: 5/16/92 15:02
Low Point : 30.98 mV High Point : 40.98 mV
Plot Scale: 10 mV



"COPY
ORIGINAL IS FILED IN CSF DB533"
Case 18050
6-3-98

Software Version: 3.2 (10J29)
Sample Name : AR1242AA
Sample Number:
Operator : LANE

Time : 5/17/92 16:42
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 15:02
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : c:\users\epa\8\8A13007.raw
Result File : c:\users\epa\8\8A13007.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\A1242.prc
Sample File : C:\USERS\EPA\8\A1242.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF 33"
Case 18010
5-3-92

Total Number of Peaks Detected: 25

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	5210	1383		0.0
2	6.16	21392	5219	TCX	20.0
3	7.32	1943	420		0.0
4	7.86	2037	462		0.0
5	8.08	12288	2534	AROCLOR-1242	100.0
6	9.48	25625	5155	AROCLOR-1242-2	100.0
7	10.24	4675	992		0.0

500

8	10.43	7918	1552		0.0
9	10.99	4680	728		0.0
10	11.39	41251	5883	AROCLOR-1242-3	100.0
11	12.01	12698	1941	AROCLOR-1242-4	100.0
12	12.53	10690	1657	AROCLOR-1242-5	100.0
13	13.02	4381	818		0.0
14	14.51	18434	1866		0.0
15	15.12	7648	1101		0.0
16	16.04	2718	476		0.0
17	16.25	4838	834		0.0
18	16.69	4937	1058		0.0
19	16.78	3034	741		0.0
20	17.39	1497	380		0.0
21	17.64	7803	1167		0.0
22	18.51	1826	349		0.0
23	18.81	2883	711		0.0
24	19.48	1463	364		0.0
25	29.25	14503	1725	DCB	20.0
		226372	39511		

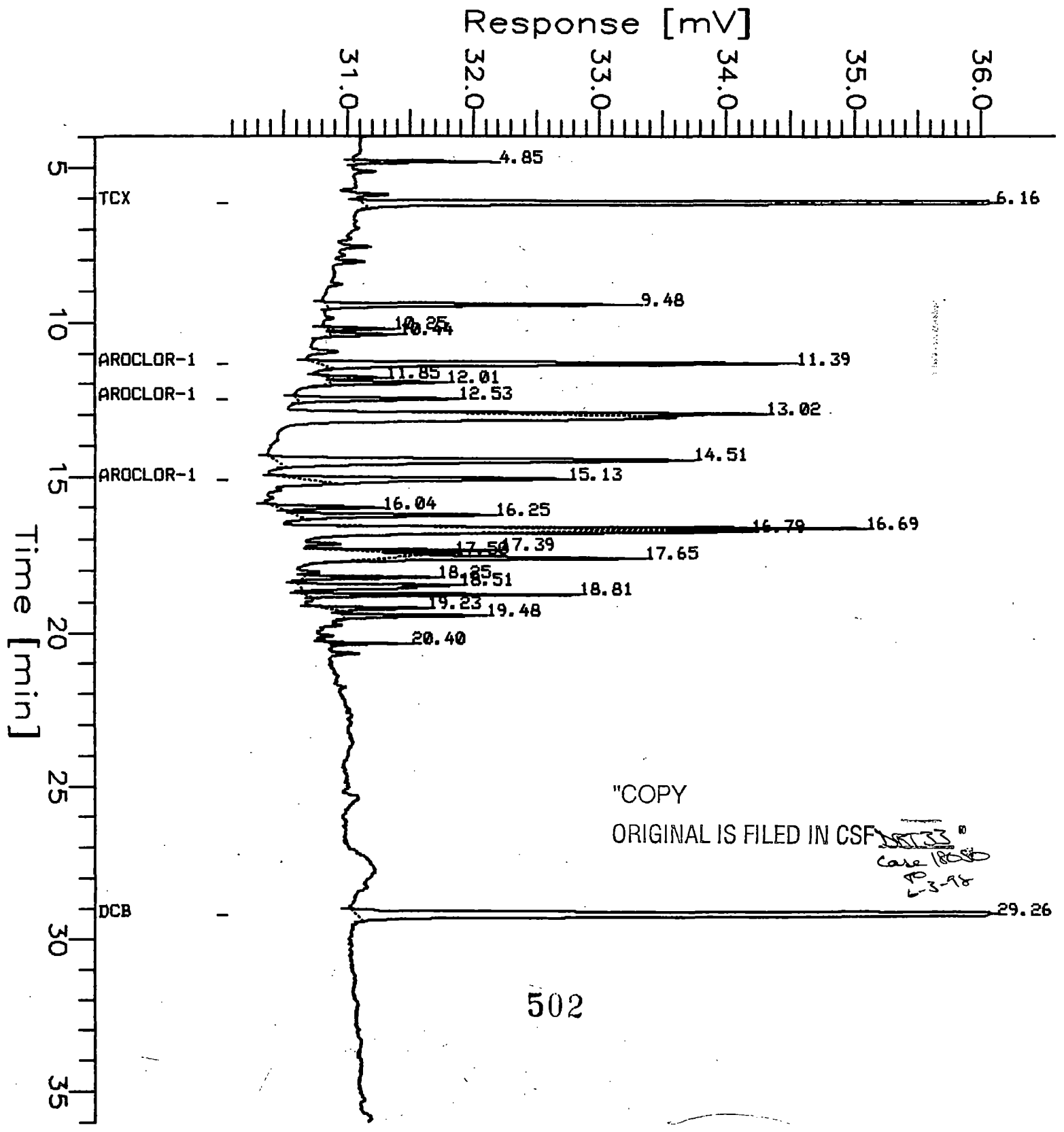
Report Stored in ASCII File: c:\users\epa\8\8A13007.TX0

"COPY
ORIGINAL IS FILED IN CSF DR133 Case 18055
10
1-3-98

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : AR1248AA
FileName : c:\users\epa\8\8A13008.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 30 mV

Sample #:
Date : 5/19/92 22:25
Time of Injection: 5/16/92 15:43
Low Point : 30.06 mV High Point : 36.06 mV
Plot Scale: 6 mV



"COPY
ORIGINAL IS FILED IN CSF 33"
Case 180
P 3-98

Software Version: 3.2 (10J29)
Sample Name : AR1248AA
Sample Number:
Operator : LANE

Time : 5/19/92 21:10
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 15:43
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : c:\users\epa\8\8A13008.raw
Result File : c:\users\epa\8\8A13008.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\A1248.prc
Sample File : C:\USERS\EPA\8\A1248.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DRT33"
Case 18050
TO
6-3-94

Total Number of Peaks Detected: 26

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	4182	1088		0.0
2	6.16	109885	29472	TCX	20.0
3	9.48	12339	2432		0.0
4	10.25	1996	441		0.0
5	10.44	2620	508		0.0
6	11.39	26226	3701	AROCLOR-1248	100.0
7	11.85	1914	393		0.0

503

8	12.01	4967	868		0.0
9	12.53	7762	1207	AROCLOR-1248-2	100.0
10	13.02	10245	1873		0.0
11	14.51	31631	3235		0.0
12	15.13	14869	1994	AROCLOR-1248-3	100.0
13	16.04	4621	761		0.0
14	16.25	9452	1504		0.0
15	16.69	11460	2451		0.0
16	16.79	5116	1208		0.0
17	17.39	4085	1053		0.0
18	17.50	761	265		0.0
19	17.65	11464	2058		0.0
20	18.25	4703	999		0.0
21	18.51	8836	1210		0.0
22	18.81	8973	2111		0.0
23	19.23	3540	748		0.0
24	19.48	4869	1077		0.0
25	20.40	2542	577		0.0
26	29.26	70024	8048	DCB	20.0
		379079	71281		

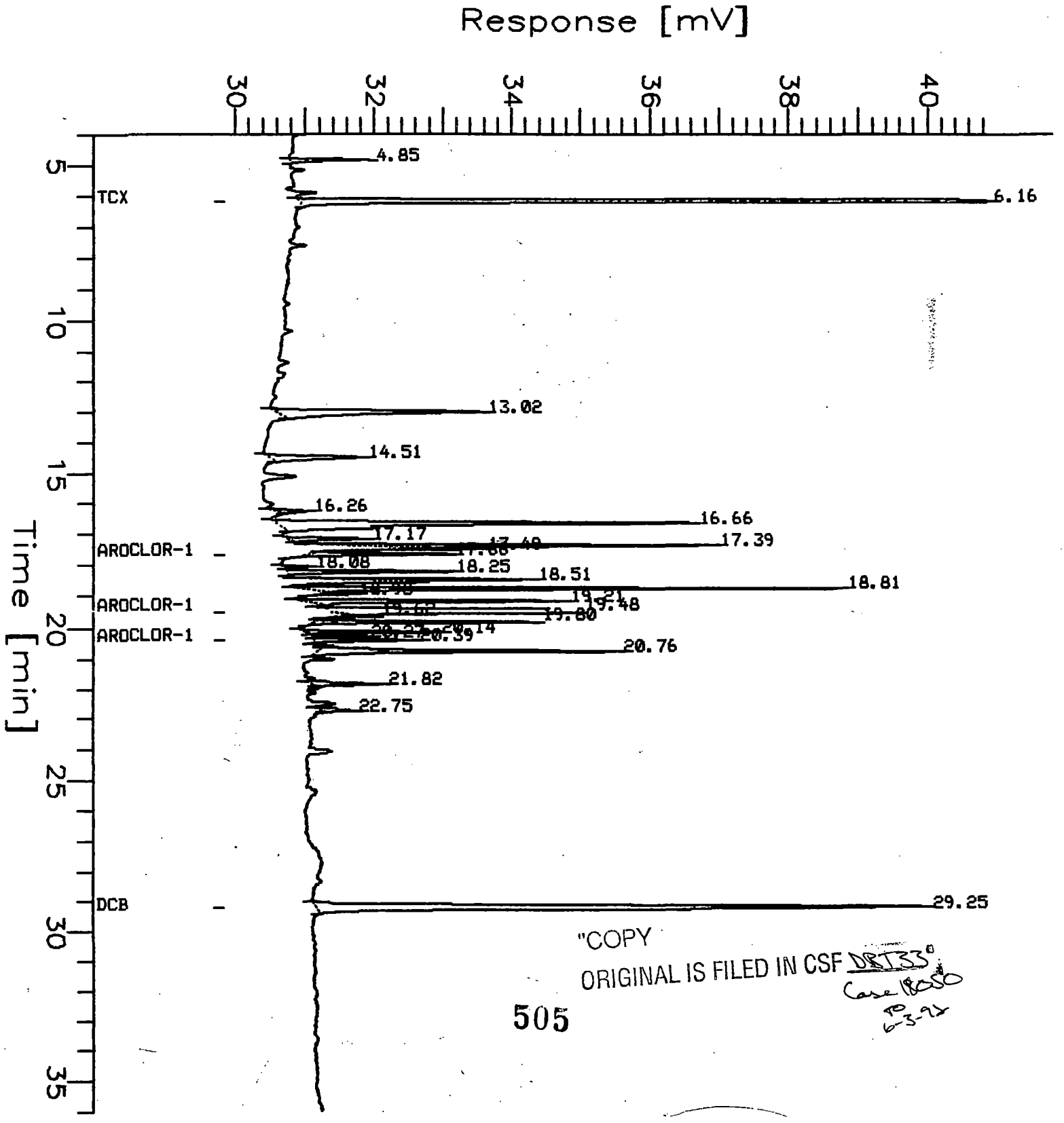
Report Stored in ASCII File: c:\users\epa\8\8A13008.TX0

"COPY
ORIGINAL IS FILED IN CSF DRI 33
Case 18058
TO
6-3-96

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : AR1254AA
FileName : c:\users\epa\8\8A13009.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 30 mV

Sample #: Page 1 of 1
Date : 5/19/92 22:26
Time of Injection: 5/16/92 16:24
Low Point : 29.84 mV High Point : 40.84 mV
Plot Scale: 11 mV



"COPY
ORIGINAL IS FILED IN CSF DBT33"
Case 18050
6-3-92

Software Version: 3.2 (10J29)
Sample Name : AR1254AA
Sample Number:
Operator : LANE

Time : 5/19/92 21:10
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 16:24
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : c:\users\epa\8\8A13009.raw
Result File : c:\users\epa\8\8A13009.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\A1254.prc
Sample File : C:\USERS\EPA\8\A1254.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF "DST33"
Case 18650
to
6-3-92

Total Number of Peaks Detected: 26

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	4380	1123		0.0
2	6.16	107381	28527	TCX	20.0
3	13.02	24414	2926		0.0
4	14.51	9883	1286		0.0
5	16.26	2119	374		0.0
6	16.66	45804	5992		0.0
7	17.17	5075	1095		0.0

8	17.39	19448	4784		0.0
9	17.49	3452	1084		0.0
10	17.66	9263	2032	AROCLOR-1254	100.0
11	18.08	1352	332		0.0
12	18.25	10936	2339		0.0
13	18.51	8458	2408		0.0
14	18.81	31549	7698		0.0
15	18.98	1253	422		0.0
16	19.21	16551	3721		0.0
17	19.48	16165	3602	AROCLOR-1254-2	100.0
18	19.62	1378	468		0.0
19	19.80	12964	3232		0.0
20	20.14	7313	1863		0.0
21	20.27	2410	718		0.0
22	20.39	6270	1437	AROCLOR-1254-3	100.0
23	20.76	24006	4353		0.0
24	21.82	4881	1003		0.0
25	22.75	2107	433		0.0
26	29.25	76433	8800	DCB	20.0
		455243	92048		

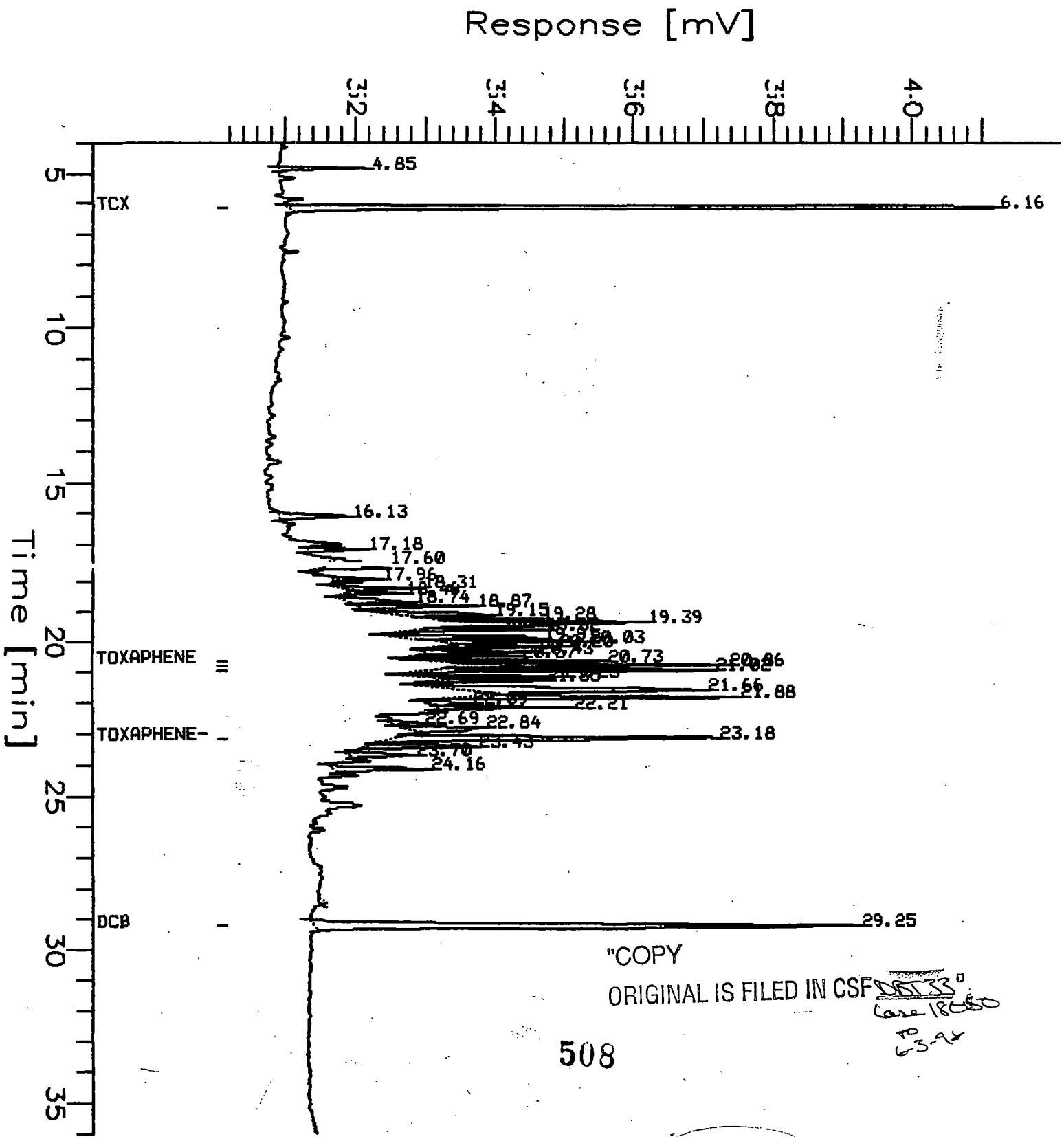
Report Stored in ASCII File: c:\users\epa\8\8A13009.TX0

"COPY
ORIGINAL IS FILED IN CSF ~~DST33~~"
Case 18050
to
6-3-92

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : TOXAPHAA
FileName : c:\users\epa\8\8A13010.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 30 mV

Sample #: Page 1 of 1
Date : 5/19/92 22:27
Time of Injection: 5/16/92 17:06
Low Point : 30.16 mV High Point : 41.16 mV
Plot Scale: 11 mV



"COPY
ORIGINAL IS FILED IN CSF DB133"
Case 18050
TO 6-3-92

Software Version: 3.2 (10J29)
Sample Name : TOXAPHAA
Sample Number:
Operator : LANE

Time : 5/17/92 16:42
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 17:06
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : c:\users\epa\8\8A13010.raw
Result File : c:\users\epa\8\8A13010.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\ATOX.prc
Sample File : C:\USERS\EPA\8\ATOX.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DB133
Case 18050
TO 6-3-96

Total Number of Peaks Detected: 35

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	4678	1203		0.0
2	6.16	105704	28247	TCX	20.0
3	16.13	6575	922		0.0
4	17.18	3884	749		0.0
5	17.60	4376	867		0.0
6	17.96	2945	579		0.0
7	18.31	5501	1033		0.0

8	18.46	3179	749		0.0
9	18.74	6713	836		0.0
10	18.87	7577	1609		0.0
11	19.15	8247	1189		0.0
12	19.28	4816	1414		0.0
13	19.39	7456	2115		0.0
14	19.62	7453	1773		0.0
15	19.91	13884	1794		0.0
16	20.03	8782	2053		0.0
17	20.20	6989	1571		0.0
18	20.43	11418	1529		0.0
19	20.57	4689	1434		0.0
20	20.73	10001	2385	TOXAPHENE	500.0
21	20.86	14852	3818	TOXAPHENE-2	500.0
22	21.02	18444	3992	TOXAPHENE-3	500.0
23	21.23	7134	1850		0.0
24	21.35	5913	1486		0.0
25	21.66	29131	3332		0.0
26	21.88	17920	3920		0.0
27	22.09	2757	469		0.0
28	22.21	7537	1884		0.0
29	22.69	1500	378		0.0
30	22.84	8540	1069		0.0
31	23.18	27486	4595	TOXAPHENE-4	500.0
32	23.43	8168	1508		0.0
33	23.70	5472	857		0.0
34	24.16	7806	1281		0.0
35	29.25	67453	7731	DCB	20.0
		464981	92217		

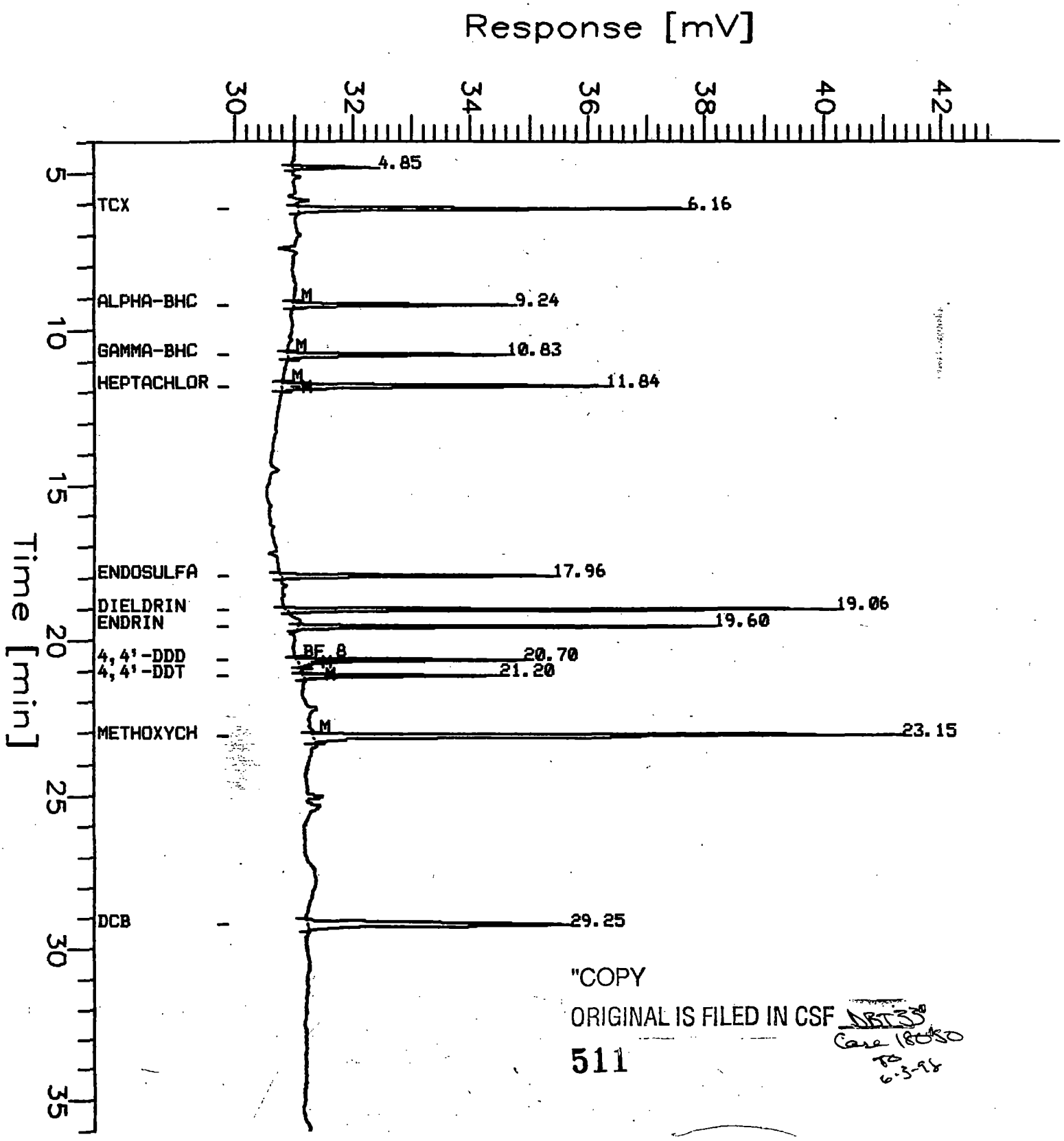
Report Stored in ASCII File: c:\users\epa\8\8A13010.TX0

"COPY
ORIGINAL IS FILED IN CSF
Case 18050
TO
6-3-98

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : INDALAA
FileName : C:\USERS\EPA\8\8A13011.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 30 mV

Sample #: Page 1 of 1
Date : 5/19/92 22:28
Time of Injection: 5/16/92 17:47
Low Point : 29.87 mV High Point : 42.87 mV
Plot Scale: 13 mV



"COPY
ORIGINAL IS FILED IN CSF DBT33
Case 18050
TO
6-3-98

Software Version: 3.2 (10J29)
Sample Name : INDALAA
Sample Number:
Operator : LANE

Time : 5/17/92 16:43
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 17:47
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13011.raw
Result File : c:\users\epa\8\8A13011.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AIAL.prc
Sample File : C:\USERS\EPA\8\AIA.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF 28533."
Case 11050
TO
6-3-92

Total Number of Peaks Detected: 12

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	5059	1306		0.0
2	6.16	26881	6556	TCX	5.0
3	9.24	17136	3633	ALPHA-BHC	5.0
4	10.83	18665	3554	GAMMA-BHC	5.0
5	11.84	32441	5375	HEPTACHLOR	5.0
6	17.96	20373	4482	ENDOSULFAN I	5.0
7	19.06	35472	9175	DIELDRIN	10.0

8	19.60	27138	6993	ENDRIN	10.0
9	20.70	18117	3709	4,4'-DDD	10.0
10	21.20	13956	3213	4,4'-DDT	10.0
11	23.15	53089	9910	METHOXYCHLOR	50.0
12	29.25	38010	4327	DCB	10.0
		306337	62233		

Report Stored in ASCII File: C:\USERS\EPA\8\8A13011.TX0

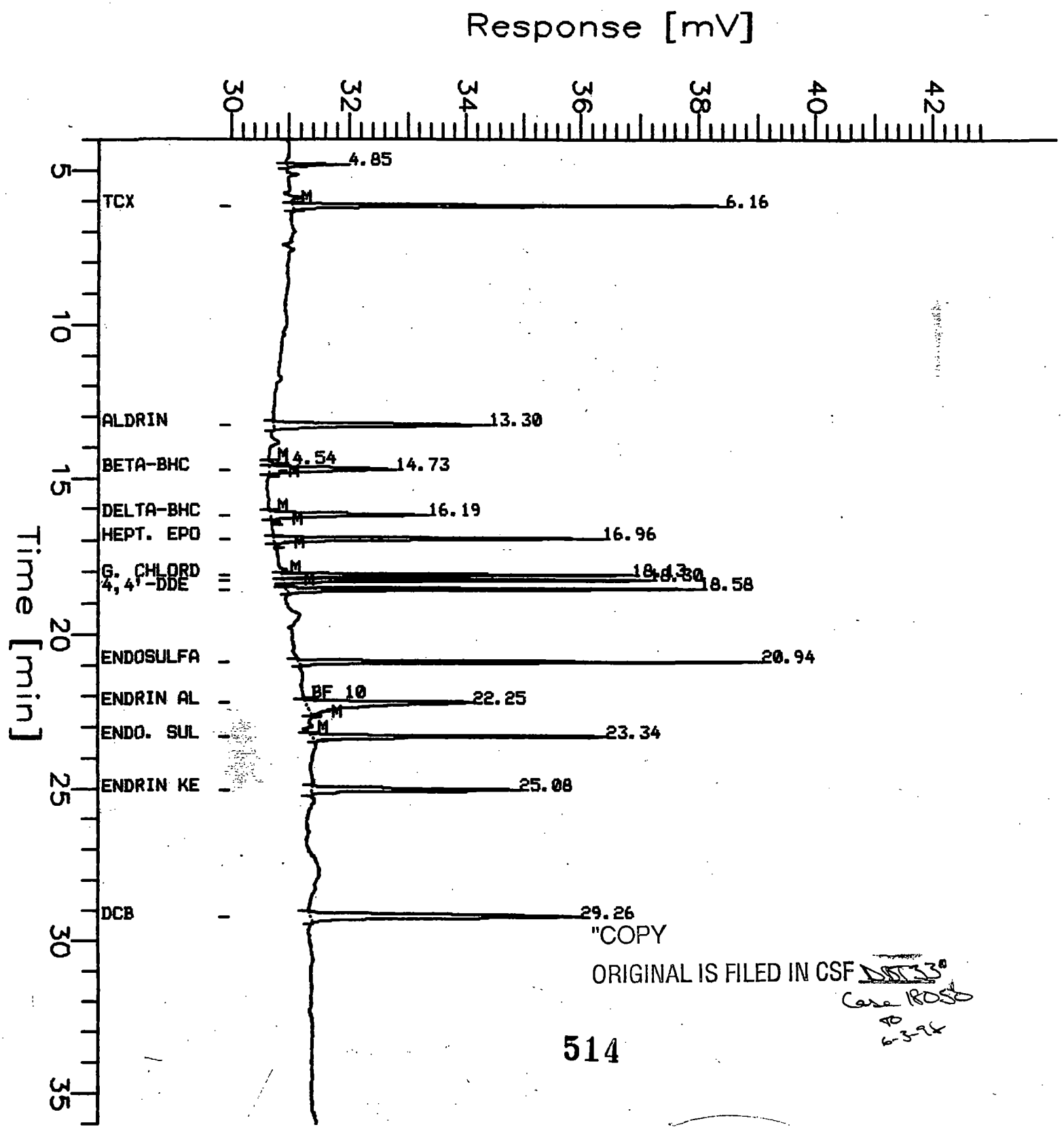
"COPY
ORIGINAL IS FILED IN CSF
Case 18050
6-3-96

19026·5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : IND8LAA
FileName : C:\USERS\EPA\8\0A13012.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 30 mV

Sample #: Page 1 of 1
Date : 5/19/92 22:29
Time of Injection: 5/16/92 18:29
Low Point : 29.97 mV High Point : 42.97 mV
Plot Scale: 13 mV



"COPY
ORIGINAL IS FILED IN CSF

Case 18050
RO
6-3-96

Software Version: 3.2 (10J29)
Sample Name : INDBLAA
Sample Number:
Operator : LANE
Time : 5/17/92 16:43
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0
Channel : A
A/D mV Range : 1024

Interface Serial # :
Data Acquisition Time: 5/16/92 18:29
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13012.raw
Result File : c:\users\epa\8\8A13012.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AIBL.prc
Sample File : C:\USERS\EPA\8\AIB.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000
Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80
Area Threshold : 300
Bunch Factor: 2
Multiplier : 1.0000
Divisor : 1.0000
Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF 33"
Case 18050
6-3-92

Total Number of Peaks Detected: 15

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	3481	886		0.0
2	6.16	29550	7250	TCX	5.0
3	13.30	24122	3527	ALDRIN	5.0
5	14.73	14902	1989	BETA-BHC	5.0
6	16.19	14848	2528	DELTA-BHC	5.0
7	16.96	29019	5497	HEPT. EPOXIDE	5.0
8	18.13	25417	5849	G. CHLORDANE	5.0

9	18.30	26009	6152	A. CHLORDANE	5.0
10	18.58	29643	6953	4,4'-DDE	10.0
11	20.94	33394	7816	ENDOSULFAN II	10.0
12	22.25	27503	2713	ENDRIN ALDEHYDE	10.0
13	23.34	26319	4891	ENDO. SULFATE	10.0
14	25.08	21670	3420	ENDRIN KETONE	10.0
15	29.26	40009	4509	DCB	10.0
		345887	63979		

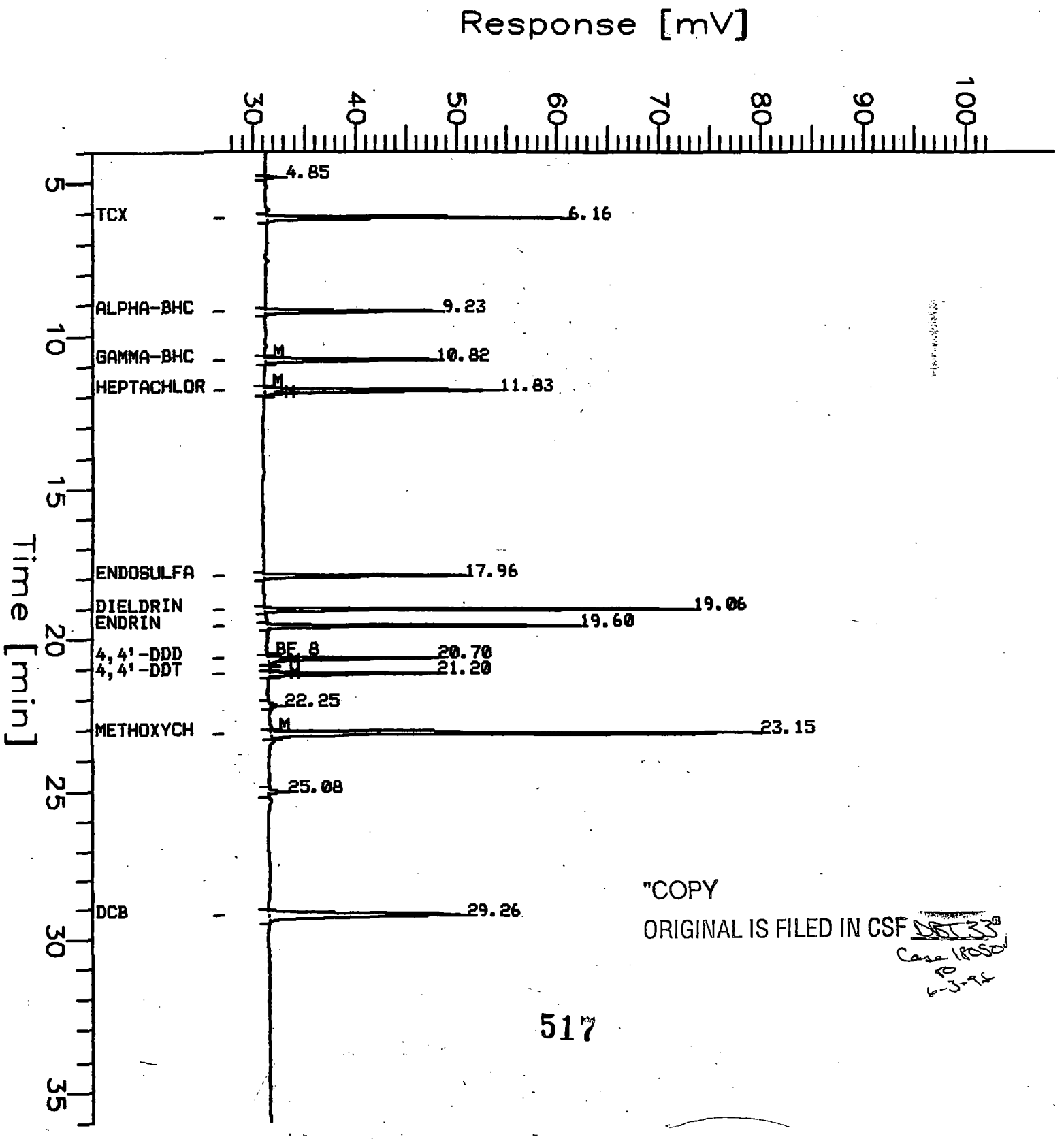
Report Stored in ASCII File: C:\USERS\EPA\8\8A13012.TX0

"COPY
ORIGINAL IS FILED IN CSF
Case 18058
6-3-98

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : INDAMAA
FileName : C:\USERS\EPA\8\8A13013.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 27 mV

Sample #: Page 1 of 1
Date : 5/19/92 22:30
Time of Injection: 5/16/92 19:10
Low Point : 27.15 mV High Point : 102.15 mV
Plot Scale: 75 mV



"COPY
ORIGINAL IS FILED IN CSF

Case 18050
6-3-92

Software Version: 3.2 (10J29)
Sample Name : INDAMAA
Sample Number:
Operator : LANE

Time : 5/17/92 16:44
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 19:10
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13013.raw
Result File : c:\users\epa\8\8A13013.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AIAM.prc
Sample File : C:\USERS\EPA\8\AIA.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF
Case 18050
6-3-96

Total Number of Peaks Detected: 14

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	4722	1208		0.0
2	6.16	109330	29092	TCX	20.0
3	9.23	71606	16634	ALPHA-BHC	20.0
4	10.82	77895	16038	GAMMA-BHC	20.0
5	11.83	126992	22348	HEPTACHLOR	20.0
6	17.96	82008	18967	ENDOSULFAN I	20.0
7	19.06	148211	41576	DIELDRIN	40.0

8	19.60	110610	30295	ENDRIN	40.0
9	20.70	73676	15994	4,4'-DDD	40.0
10	21.20	64670	15787	4,4'-DDT	40.0
11	22.25	3110	525		0.0
12	23.15	243976	47368	METHOXYCHLOR	200.0
13	25.08	6493	1020		0.0
14	29.26	165626	18715	DCB	40.0
		1288926	275565		

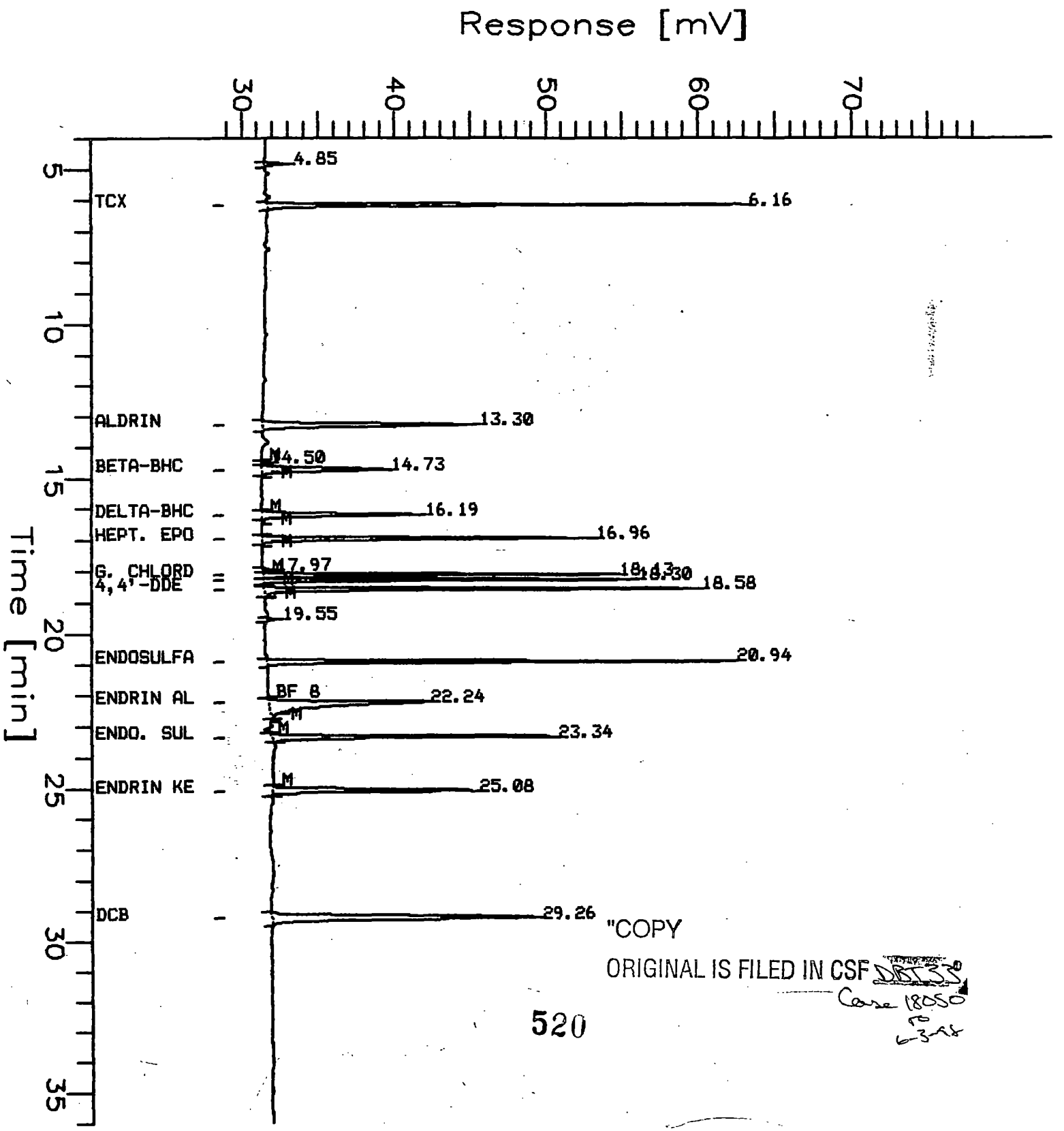
Report Stored in ASCII File: C:\USERS\EPA\8\8A13013.TX0

"COPY
ORIGINAL IS FILED IN CSF DRT33
Case 18088
TO
6-3-96

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : INDBMAA
FileName : C:\USERS\EPA\8\0A13014.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 29 mV

Sample #: Page 1 of 1
Date : 5/19/92 22:30
Time of Injection: 5/16/92 19:51
Low Point : 28.77 mV High Point : 78.77 mV
Plot Scale: 50 mV



"COPY
ORIGINAL IS FILED IN CSF DB133
Case 18050
6-3-98

Software Version: 3.2 (10J29)
Sample Name : INDBMAA Time : 5/17/92 16:44
Sample Number: Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : A A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/16/92 19:51
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13014.raw
Result File : c:\users\epa\8\8A13014.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AIBM.prc
Sample File : C:\USERS\EPA\8\AIB.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF
Case 18050
TO
L3-96

Total Number of Peaks Detected: 17

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	5225	1362		0.0
2	6.16	116197	31074	TCX	20.0
3	13.30	90404	13680	ALDRIN	20.0
5	14.73	57174	7862	BETA-BHC	20.0
6	16.19	56003	10174	DELTA-BHC	20.0
7	16.96	105559	21453	HEPT. EPOXIDE	20.0
8	17.97	1523	372		0.0

9	18.13	94038	23013	G. CHLORDANE	20.0
10	18.30	98466	24274	A. CHLORDANE	20.0
11	18.58	114411	28388	4,4'-DDE	40.0
12	19.55	1825	472		0.0
13	20.94	126456	30351	ENDOSULFAN II	40.0
14	22.24	103763	10116	ENDRIN ALDEHYDE	40.0
15	23.34	98599	18334	ENDO. SULFATE	40.0
16	25.08	81294	13066	ENDRIN KETONE	40.0
17	29.26	152395	17238	DCB	40.0
		1303333	251228		

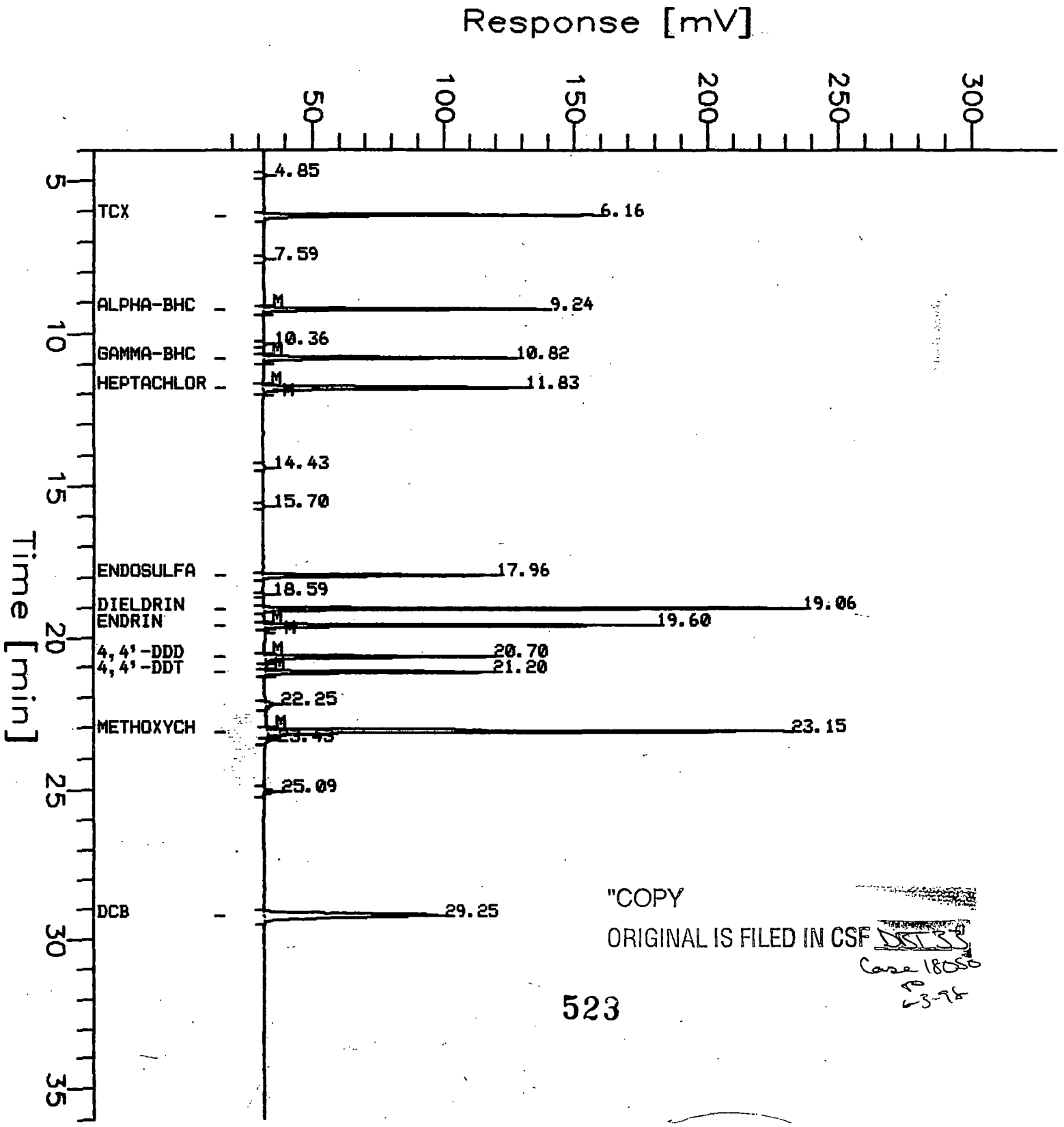
Report Stored in ASCII File: C:\USERS\EPA\8\8A13014.TX0

"COPY
ORIGINAL IS FILED IN CSF
Case 18050
6-3-92

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : INDAHAA
FileName : C:\USERS\EPA\8\8A13015.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 17 mV

Sample #: Page 1 of 1
Date : 5/19/92 22:31
Time of Injection: 5/16/92 20:32
Low Point : 17.29 mV High Point : 307.29 mV
Plot Scale: 290 mV



"COPY
ORIGINAL IS FILED IN CSF
Case 18050
2-3-96

Software Version: 3.2 (10J29)
Sample Name : INDAHAA
Sample Number:
Operator : LANE

Time : 5/17/92 16:44
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 20:32
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13015.raw
Result File : c:\users\epa\8\8A13015.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AIAH.prc
Sample File : C:\USERS\EPA\8\AIA.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF
Case 18050
6-3-98

Total Number of Peaks Detected: 20

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	4868	1252		0.0
2	6.16	450376	125110	TCX	80.0
3	7.59	4137	914		0.0
4	9.24	397863	105844	ALPHA-BHC	80.0
5	10.36	2982	601		0.0
6	10.82	407286	92797	GAMMA-BHC	80.0
7	11.83	528558	96393	HEPTACHLOR	80.0

8	14.43	3540	545		0.0
9	15.70	2883	486		0.0
10	17.96	347555	85520	ENDOSULFAN I	80.0
11	18.59	1764	420		0.0
12	19.06	690965	202530	DIELDRIN	160.0
13	19.60	507459	146566	ENDRIN	160.0
14	20.70	336851	83928	4,4'-DDD	160.0
15	21.20	323775	83655	4,4'-DDT	160.0
16	22.25	20590	2581		0.0
17	23.15	1006386	195753	METHOXYCHLOR	800.0
18	23.43	5140	1188		0.0
19	25.09	22885	3585		0.0
20	29.25	581972	64974	DCB	160.0
		5647836	1294640		

Report Stored in ASCII File: C:\USERS\EPA\8\8A13015.TX0

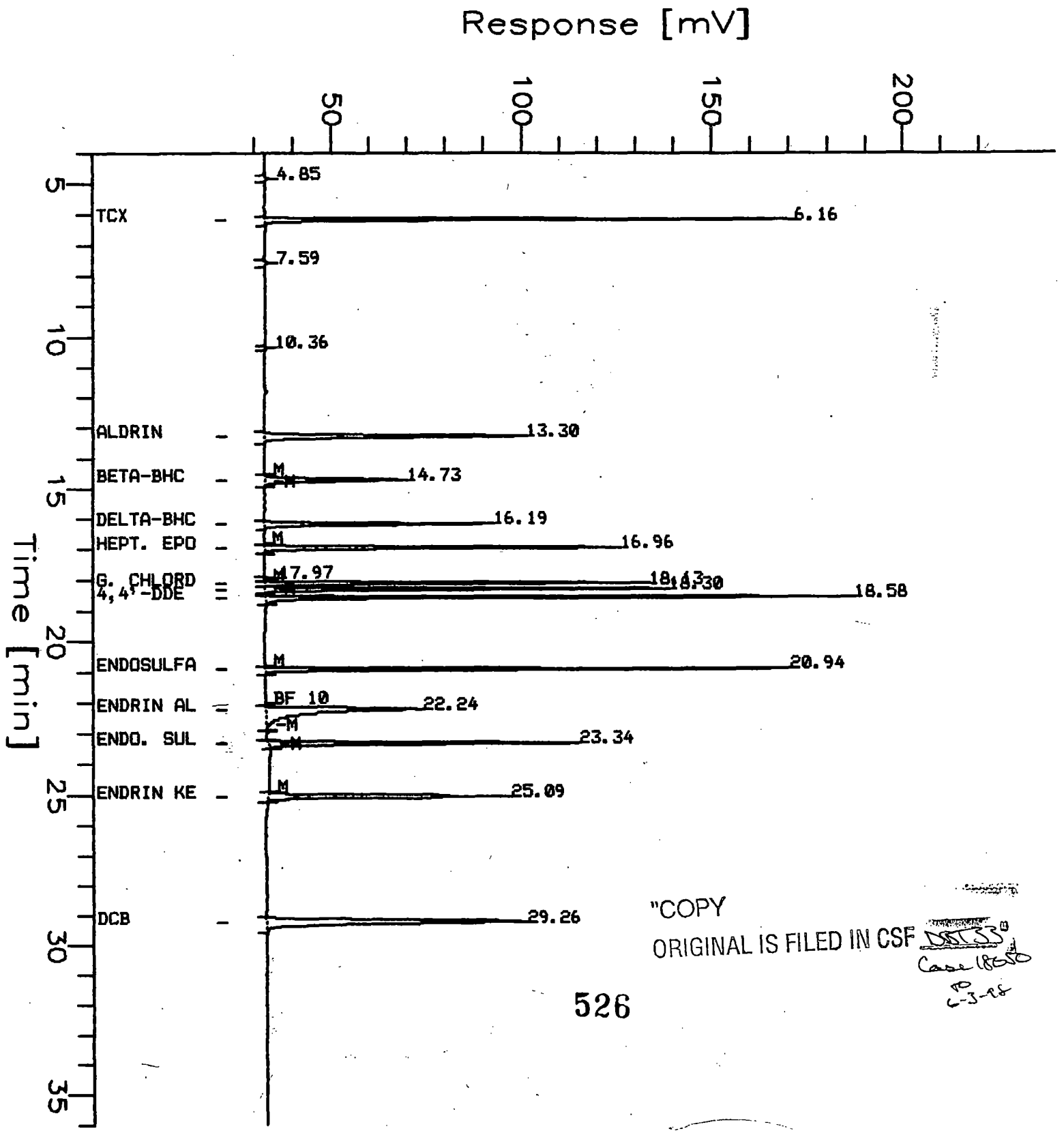
"COPY
ORIGINAL IS FILED IN CSF
Case 18050
6-3-96

19026·5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : INDBHAA
FileName : C:\USERS\EPA\8\8A13016.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 23 mV

Sample #: Page 1 of 1
Date : 5/19/92 22:32
Time of Injection: 5/16/92 21:13
Low Point : 22.52 mV High Point : 222.52 mV
Plot Scale: 200 mV



"COPY
ORIGINAL IS FILED IN CSF

Case 18510
6-3-98

Software Version: 3.2 (10J29)
Sample Name : INDBHAA
Sample Number:
Operator : LANE

Time : 5/17/92 17:35
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 21:13
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13016.raw
Result File : c:\users\epa\8\8A13016.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AIBH.prc
Sample File : C:\USERS\EPA\8\AIB.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DRT33"
Case 18050
5-3-98

Total Number of Peaks Detected: 17

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	4395	1166		0.0
2	6.16	488786	136934	TCX	80.0
3	7.59	4873	1038		0.0
4	10.36	2037	436		0.0
5	13.30	400026	66472	ALDRIN	80.0
6	14.73	240681	35269	BETA-BHC	80.0
7	16.19	277035	57743	DELTA-BHC	80.0

527

8	16.96	431507	91533	HEPT. EPOXIDE	80.0
9	17.97	5807	1458		0.0
10	18.13	382276	99267	G. CHLORDANE	80.0
11	18.30	402441	104542	A. CHLORDANE	80.0
12	18.58	547235	152843	4,4'-DDE	160.0
13	20.94	534600	135466	ENDOSULFAN II	160.0
14	22.24	410429	39461	ENDRIN ALDEHYDE	160.0
15	23.34	410022	79597	ENDO. SULFATE	160.0
16	25.09	361185	61425	ENDRIN KETONE	160.0
17	29.26	597974	66151	DCB	160.0
		5501308	1130800		

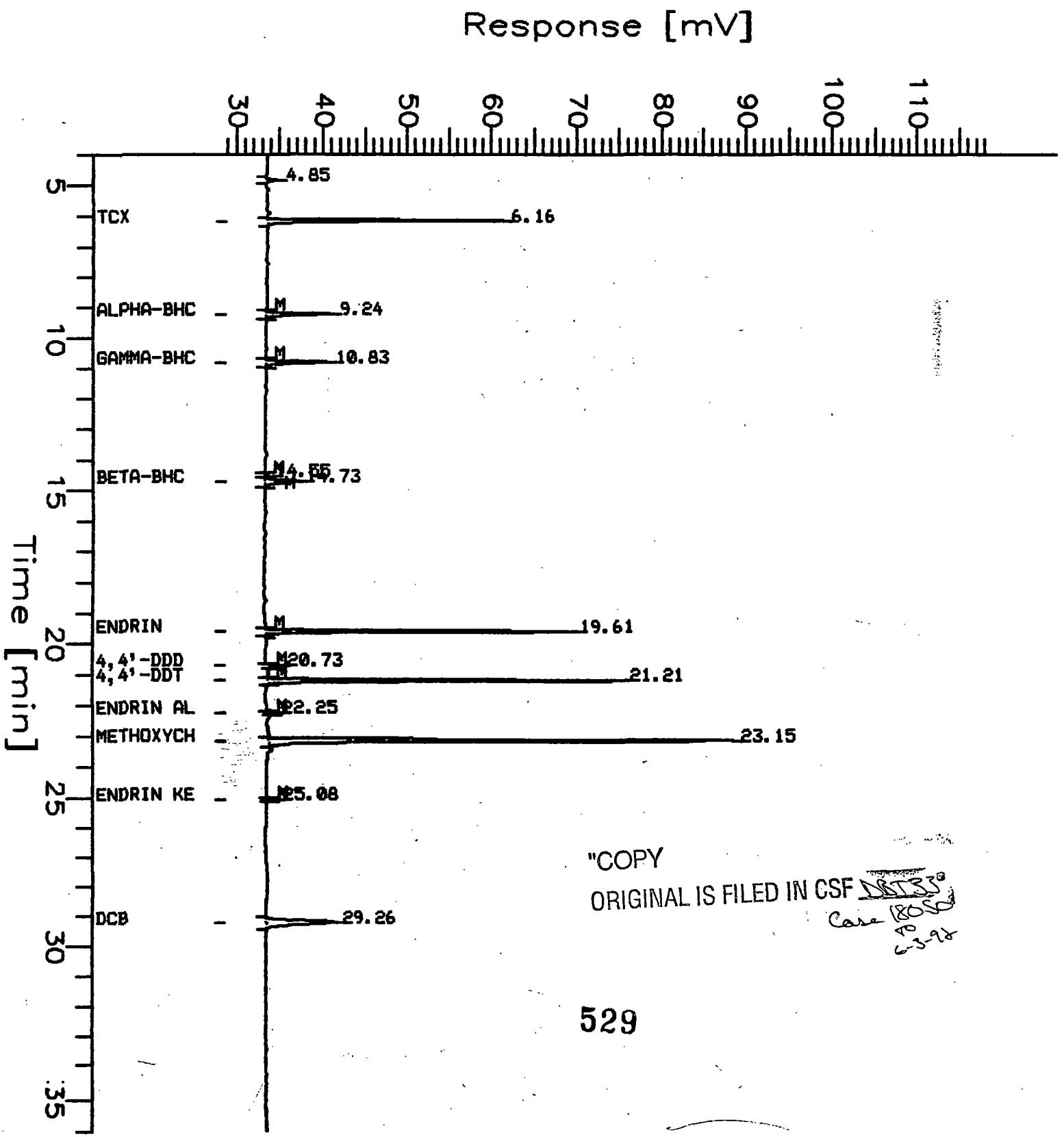
Report Stored in ASCII File: C:\USERS\EPA\8\8A13016.TX0

"COPY
ORIGINAL IS FILED IN CSF DB133
Case 18050
6-3-98

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : PEMAB
FileName : C:\USERS\EPA\8\8A13018.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 29 mV

Sample #: Page 1 of 1
Date : 5/19/92 22:54
Time of Injection: 5/16/92 22:35
Low Point : 28.74 mV High Point : 118.74 mV
Plot Scale: 90 mV



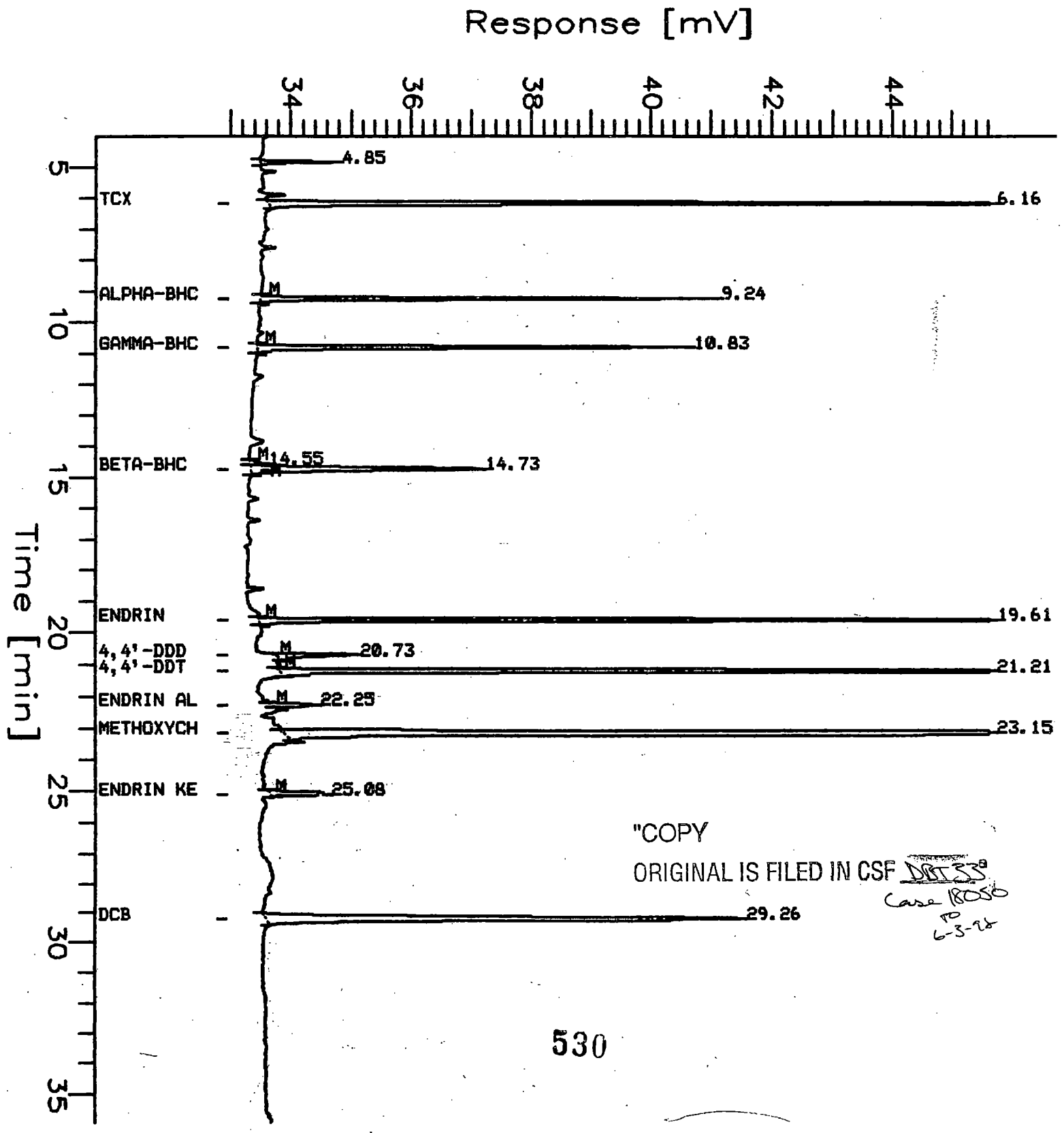
"COPY
ORIGINAL IS FILED IN CSF
Case 180
6-3-92

19026·5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : PEMAB
FileName : C:\USERS\EPA\8\8A13018.raw
Method : EPA8A.ins
Start Time : 4.01 min End Time : 35.91 min
Scale Factor: 0 Plot Offset: 33 mV

Sample #: Page 1 of 1
Date : 5/20/92 08:45
Time of Injection: 5/16/92 22:35
Low Point : 32.95 mV High Point : 45.62 mV
Plot Scale: 13 mV



"COPY
ORIGINAL IS FILED IN CSF DRT 33
Case 18050
PO
6-3-92

Software Version: 3.2 (10J29)
Sample Name : PEMAB
Sample Number:
Operator : LANE

Time : 5/17/92 16:45
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 22:35
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13018.raw
Result File : c:\users\epa\8\8A13018.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AP.prc
Sample File : C:\USERS\EPA\8\AP.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF

Case 18050
PD
6-3-94

Total Number of Peaks Detected: 13

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	4547	1218		0.0
2	6.16	103568	27687	TCX	20.0
3	9.24	34197	7570	ALPHA-BHC	10.0
4	10.83	36283	7141	GAMMA-BHC	10.0
5	14.55	1070	180		0.0
6	14.73	27848	3760	BETA-BHC	10.0
7	19.61	131342	36154	ENDRIN	50.0

8	20.73	4881	1043	4,4'-DDD	0.0
9	21.21	167938	41657	4,4'-DDT	100.0
10	22.25	1519	346	ENDRIN ALDEHYDE	0.0
11	23.15	284097	54814	METHOXYCHLOR	250.0
12	25.08	2625	604	ENDRIN KETONE	0.0
13	29.26	69300	7845	DCB	20.0
		869215	190018		

Report Stored in ASCII File: C:\USERS\EPA\8\8A13018.TX0

"COPY
ORIGINAL IS FILED IN CSF DATA
Case 18050
TO
6-3-98

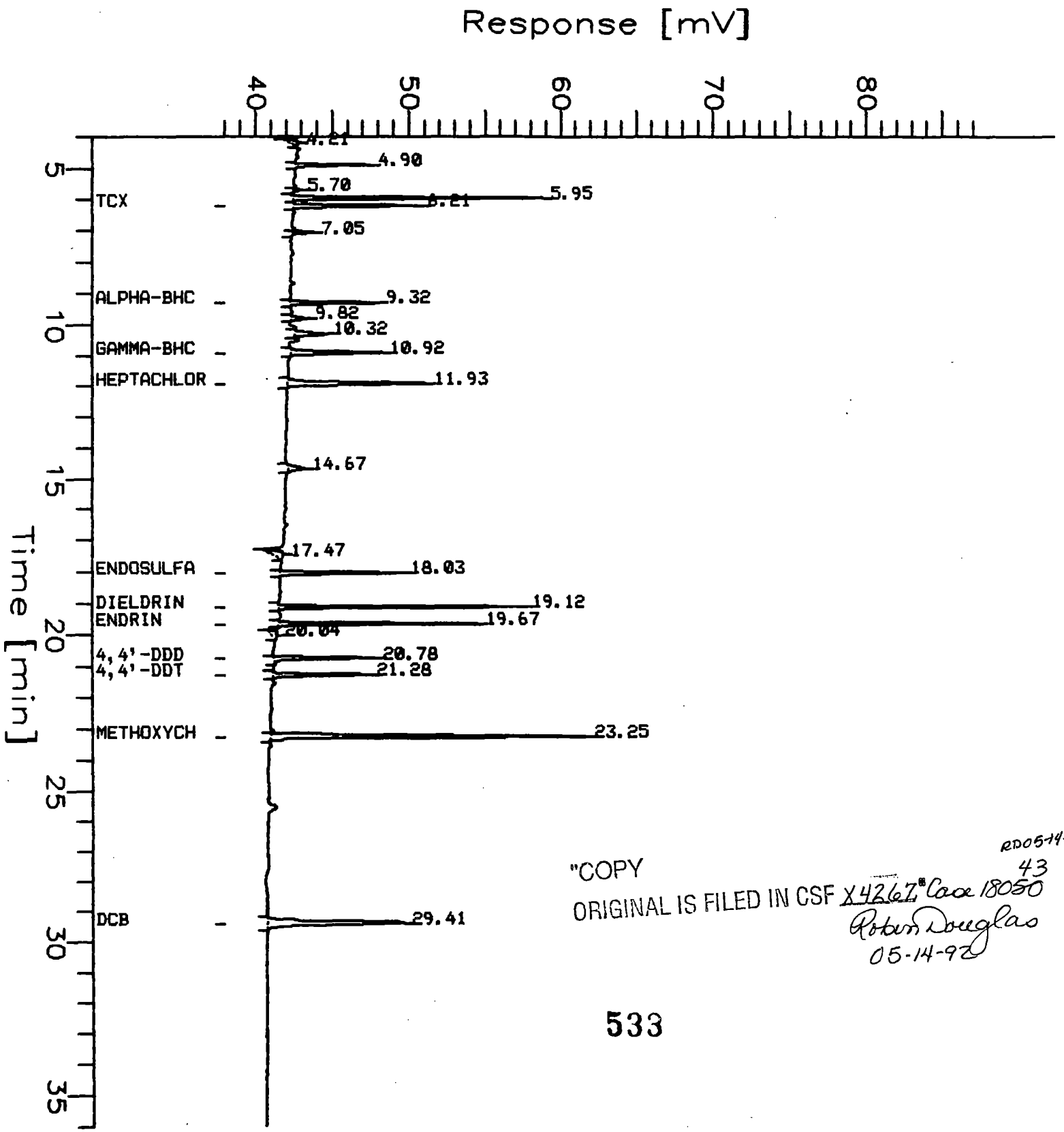
19026-5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : 157AC-8
FileName : c:\users\epa\8\8009020.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 38 mV

Sample #: FLRSL_CK
Date : 4/17/92 13:37
Time of Injection: 4/10/92 04:34
Low Point : 37.97 mV High Point : 87.97 mV
Plot Scale: 50 mV

Page 1 of 1



"COPY
ORIGINAL IS FILED IN CSF X4267 Case 18050
Robin Douglas
05-14-92

RD 05-14-92
43

Software Version: 3.2 (10J29)
Sample Name : 157AC-8 Time : 4/16/92 12:01
Sample Number: FLRSL_CK Study : 04/09/92 14:23
Operator : WPL

Instrument : 08 Channel : A A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 4/10/92 04:34
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : c:\users\epa\8\8A09020.raw
Result File : c:\users\epa\8\8A09020.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AIAM.prc
Sample File : C:\USERS\EPA\8\AMIX.smp
Sequence File : c:\users\epa\8\epa809.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 21

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
1	4.21	5287	588	
2	4.90	17078	4913	
3	5.70	1865	404	
4	5.95	62269	16366	
5	6.21	30800	8222	TCX
6	7.05	5445	1291	
7	9.32	25114	5744	ALPHA-BHC

"COPY
ORIGINAL IS FILED IN CSF X4267, Case 18043
Robin Douglas
05-14-92

8	9.82	5676	1059	
9	10.32	13800	1999	
10	10.92	30504	5947	GAMMA-BHC
11	11.93	54872	8979	HEPTACHLOR
12	14.67	8202	1030	
13	17.47	10117	610	
14	18.03	33699	7974	ENDOSULFAN I
15	19.12	58718	16156	DIELDRIN
16	19.67	48742	13044	ENDRIN
17	20.04	6032	341	
18	20.78	26655	6631	4,4'-DDD
19	21.28	25776	6273	4,4'-DDT
20	23.25	103170	20776	METHOXYCHLOR
21	29.41	75471	8899	DCB
		649292	137245	

Report Stored in ASCII File: c:\users\epa\8\8A09020.TX0

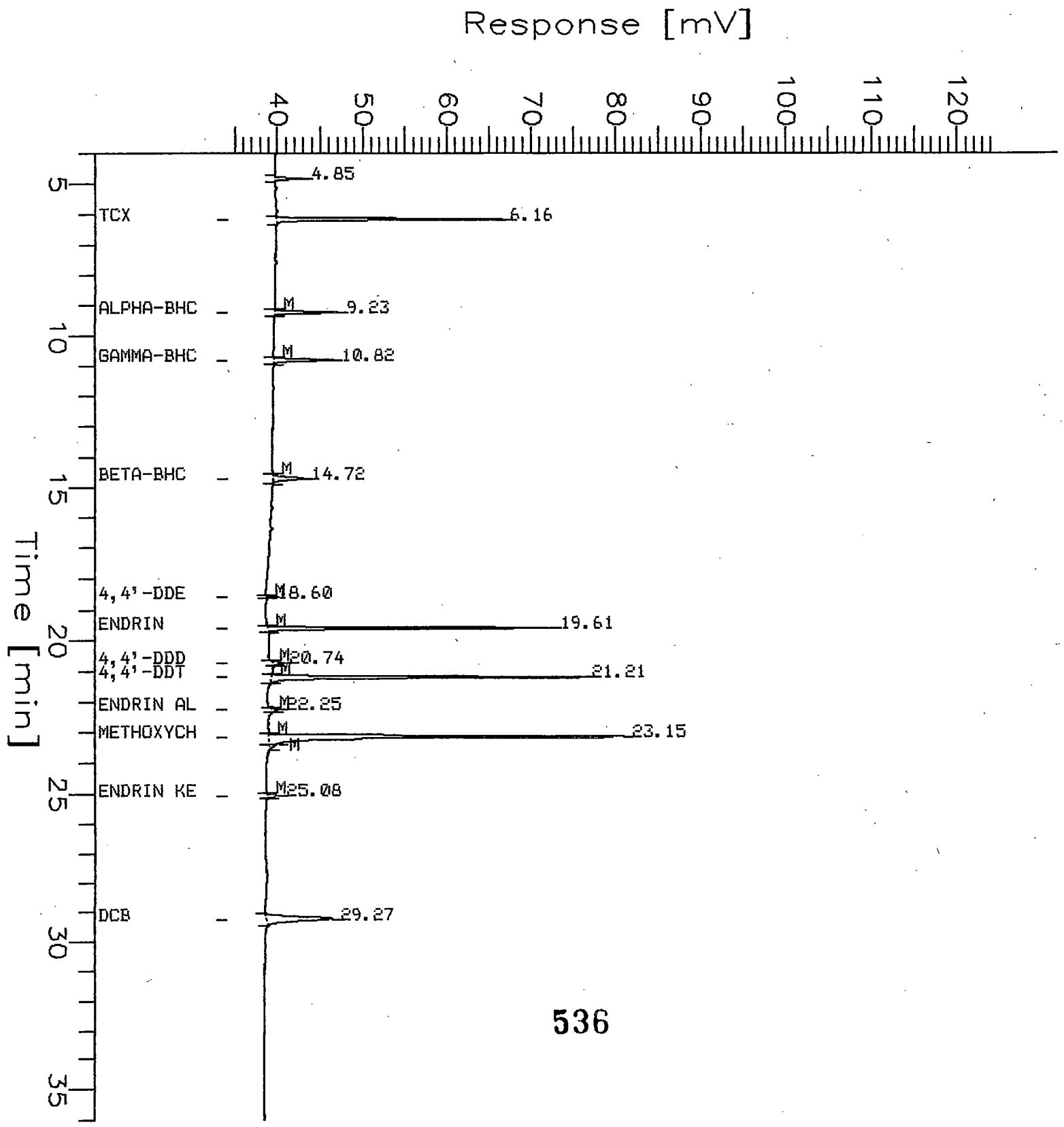
"COPY
ORIGINAL IS FILED IN CSF X4267, "Case 18043
Robin Douglas
05-14-92

19026·5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : PEMAF
FileName : C:\USERS\EPA\8\8A13093.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 34 mV

Sample #: Page 1 of 1
Date : 5/28/92 08:22
Time of Injection: 5/21/92 04:38
Low Point : 34.05 mV High Point : 124.05 mV
Plot Scale: 90 mV

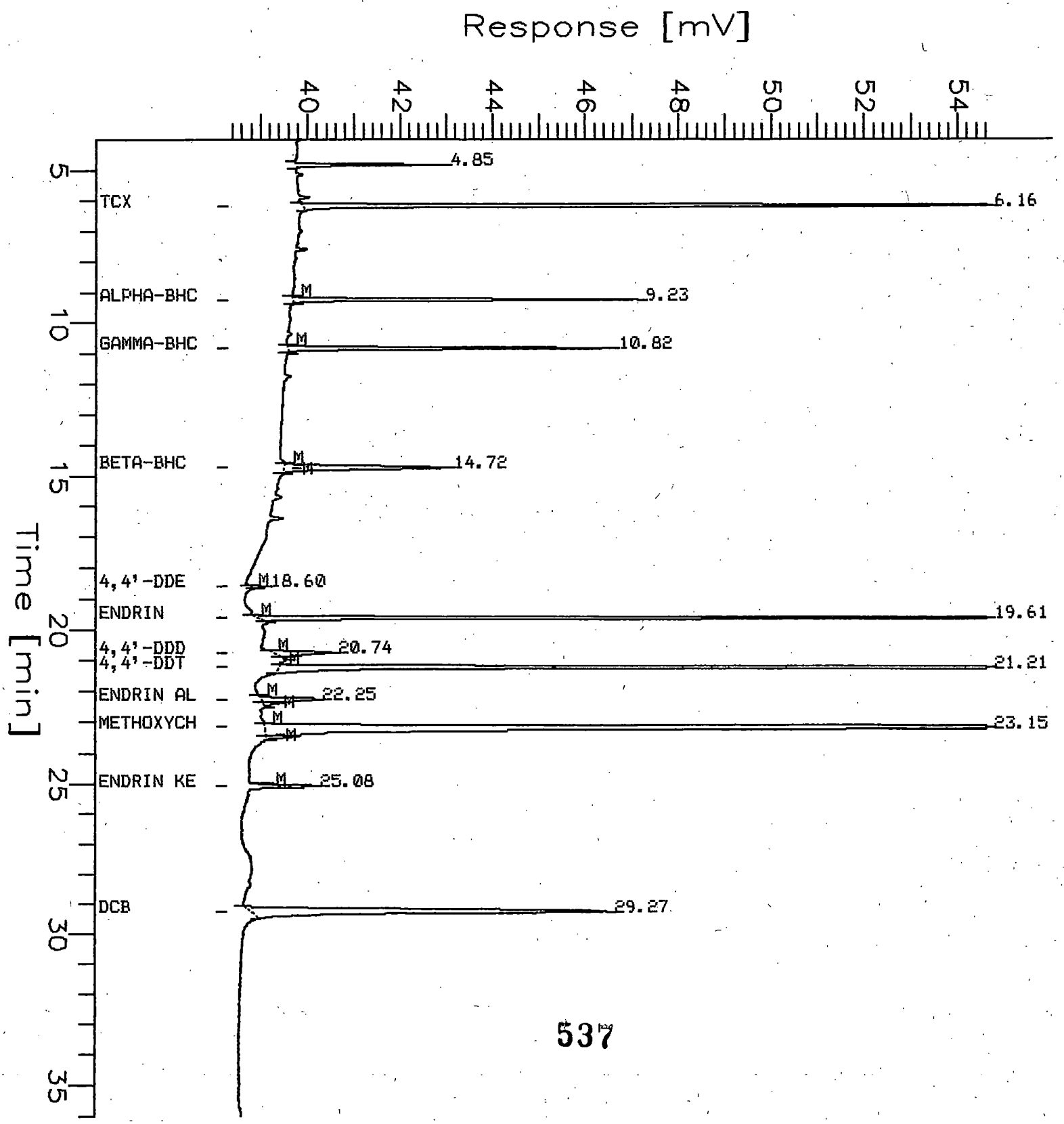


19026·5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : PEMAF
FileName : C:\USERS\EPA\8\8A13093.raw
Method : EPA8A.ins
Start Time : 4.01 min End Time : 36.01 min
Scale Factor: 0 Plot Offset: 38 mV

Sample #: Page 1 of 1
Date : 6/2/92 06:04
Time of Injection: 5/21/92 04:38
Low Point : 38.28 mV High Point : 54.62 mV
Plot Scale: 16 mV



Software Version: 3.2 (10J29)
Sample Name : PEMAF
Sample Number:
Operator : LANE

Time : 6/2/92 05:51
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/21/92 04:38
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13093.raw
Result File : c:\users\epa\8\8A13093.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AP.prc
Sample File : C:\USERS\EPA\8\AP.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 13

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	11030	3162		0.0
2	6.16	99295	26852	TCX	20.0
3	9.23	32669	7424	ALPHA-BHC	10.0
4	10.82	34969	6969	GAMMA-BHC	10.0
5	14.72	24986	3485	BETA-BHC	10.0
6	18.60	784	217	4,4'-DDE	0.0
7	19.61	120567	33702	ENDRIN	50.0

8	20.74	2849	644	4,4'-DDD	0.0
9	21.21	159067	36864	4,4'-DDT	100.0
10	22.25	2786	576	ENDRIN ALDEHYDE	0.0
11	23.15	249046	41869	METHOXYCHLOR	250.0
12	25.08	2453	581	ENDRIN KETONE	0.0
13	29.27	73683	7653	DCB	20.0
		814185	169996		

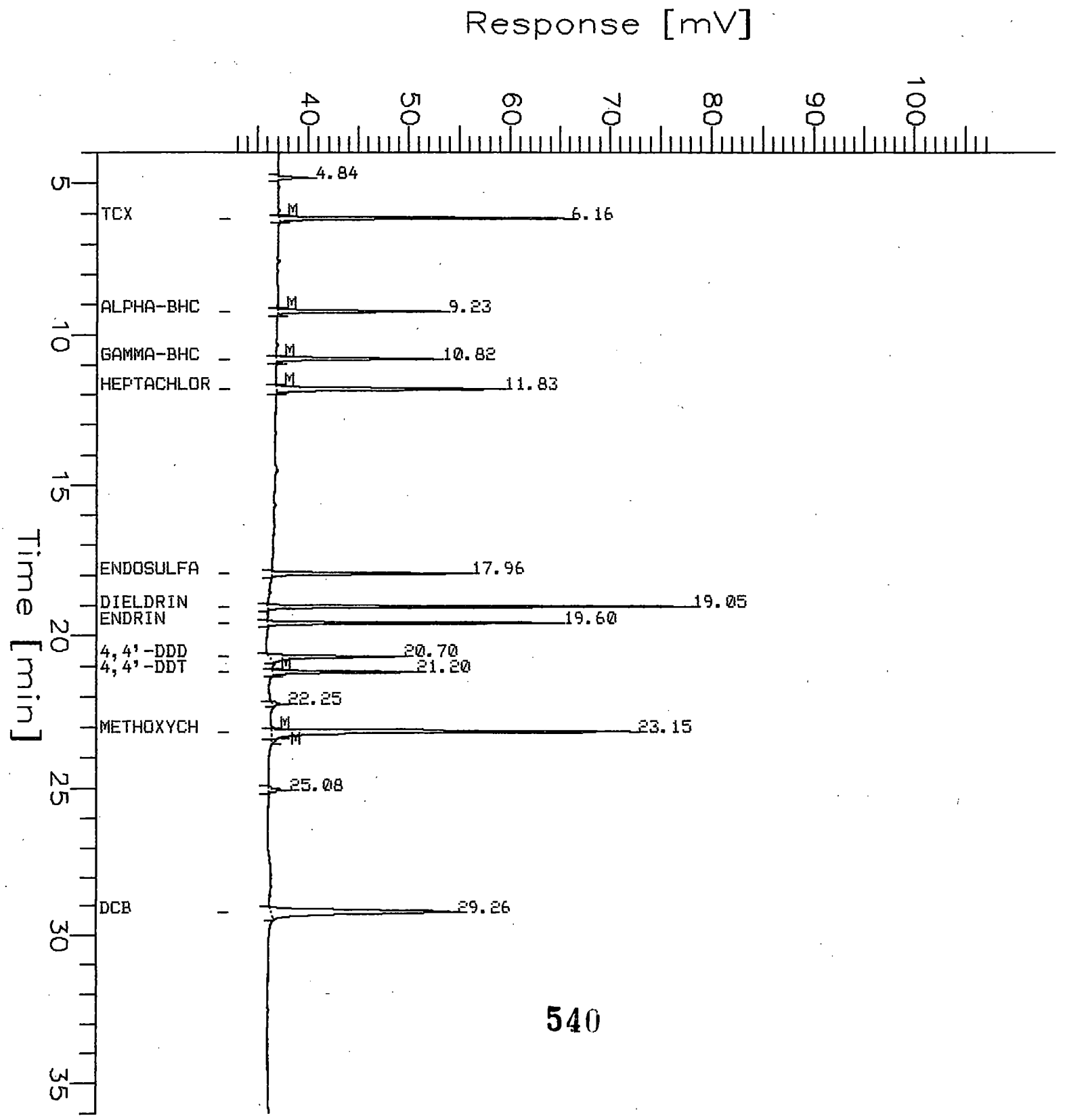
Report Stored in ASCII File: C:\USERS\EPA\8\8A13093.TX0

19028·5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : INDAMAE
FileName : C:\USERS\EPA\8\8A13108.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 32 mV

Sample #: Page 1 of 1
Date : 5/28/92 07:37
Time of Injection: 5/21/92 14:57
Low Point : 32.20 mV High Point : 107.20 mV
Plot Scale: 75 mV



Software Version: 3.2 (10J29)
Sample Name : INDAMAE
Sample Number:
Operator : LANE

Time : 5/28/92 07:37
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/21/92 14:57
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13108.raw
Result File : c:\users\epa\8\8A13108.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AIAM.prc
Sample File : C:\USERS\EPA\8\AIAC.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 14

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.84	10557	2934		0.0
2	6.16	104734	28225	TCX	20.0
3	9.23	68936	16182	ALPHA-BHC	20.0
4	10.82	74903	15567	GAMMA-BHC	20.0
5	11.83	124362	21900	HEPTACHLOR	20.0
6	17.96	81492	19045	ENDOSULFAN I	20.0
7	19.05	149444	41332	DIELDRIN	40.0

8	19.60	104401	28531	ENDRIN	40.0
9	20.70	64599	12558	4,4'-DDD	40.0
10	21.20	57664	13473	4,4'-DDT	40.0
11	22.25	3766	647		0.0
12	23.15	208217	35605	METHOXYCHLOR	200.0
13	25.08	7959	1224		0.0
14	29.26	168128	17772	DCB	40.0
		1229162	254994		

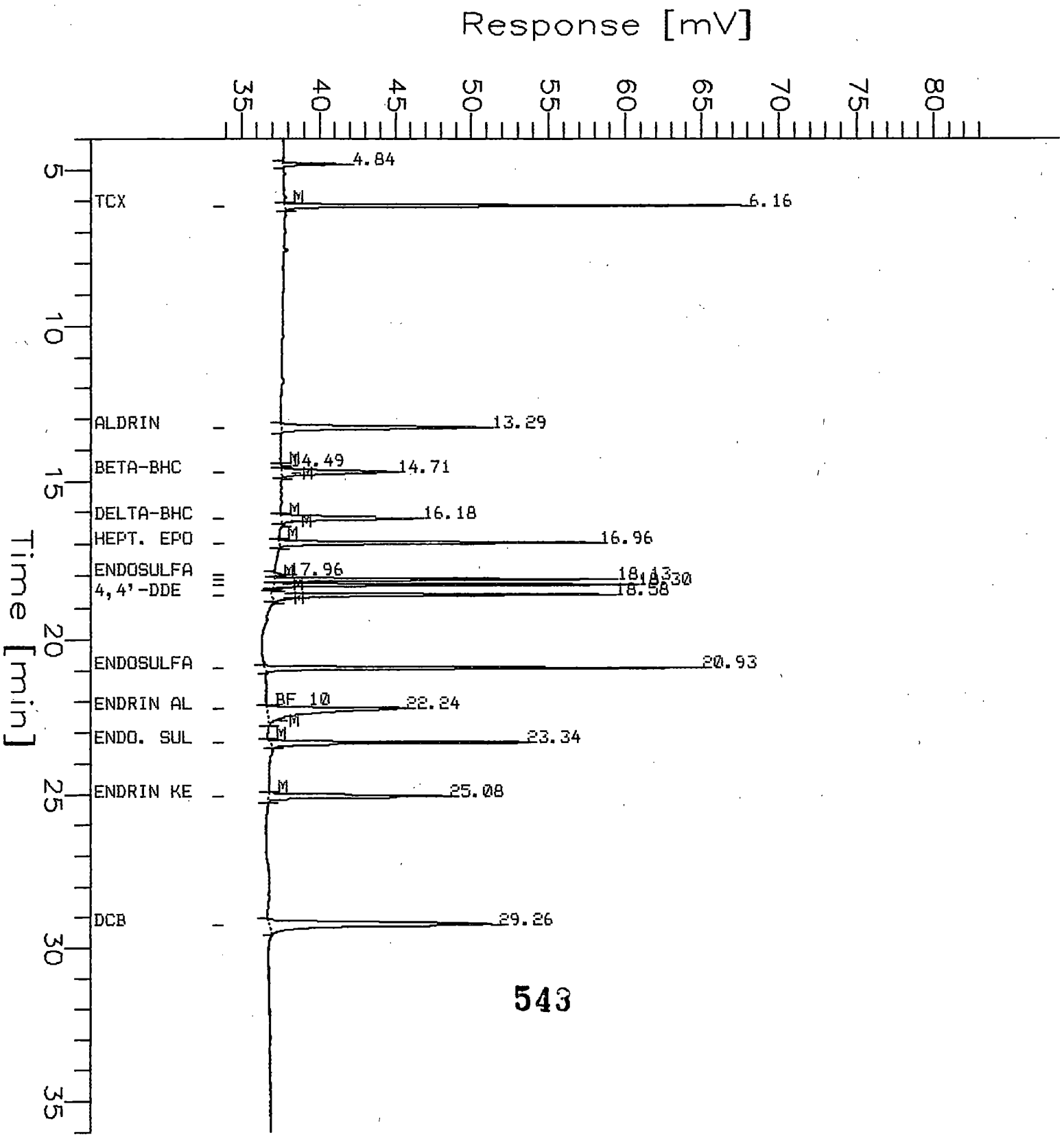
Report Stored in ASCII File: C:\USERS\EPA\8\8A13108.TX0

19026·5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : INDBMAE
FileName : C:\USERS\EPA\8\8A13109.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 34 mV

Sample #: Page 1 of 1
Date : 5/28/92 07:37
Time of Injection: 5/21/92 15:38
Low Point : 33.82 mV High Point : 83.82 mV
Plot Scale: 50 mV



Software Version: 3.2 (10J29)
Sample Name : INDBMAE
Sample Number:
Operator : LANE

Time : 5/28/92 07:37
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/21/92 15:38
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13109.raw
Result File : c:\users\epa\8\8A13109.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AIBM.prc
Sample File : C:\USERS\EPA\8\AIBC.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 16

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.84	14147	4003		0.0
2	6.16	111155	29935	TCX	20.0
3	13.29	86678	13258	ALDRIN	20.0
5	14.71	50762	7020	BETA-BHC	20.0
6	16.18	49446	8730	DELTA-BHC	20.0
7	16.96	99939	20446	HEPT. EPOXIDE	20.0
8	17.96	1456	371	ENDOSULFAN I	0.0

9	18.13	89300	21831	G. CHLORDANE	20.0
10	18.30	92237	23314	A. CHLORDANE	20.0
11	18.58	97064	21802	4,4'-DDE	40.0
12	20.93	116771	27968	ENDOSULFAN II	40.0
13	22.24	91743	8555	ENDRIN ALDEHYDE	40.0
14	23.34	88143	16230	ENDO. SULFATE	40.0
15	25.08	72323	11307	ENDRIN KETONE	40.0
16	29.26	140720	14481	DCB	40.0
		1201883	229249		

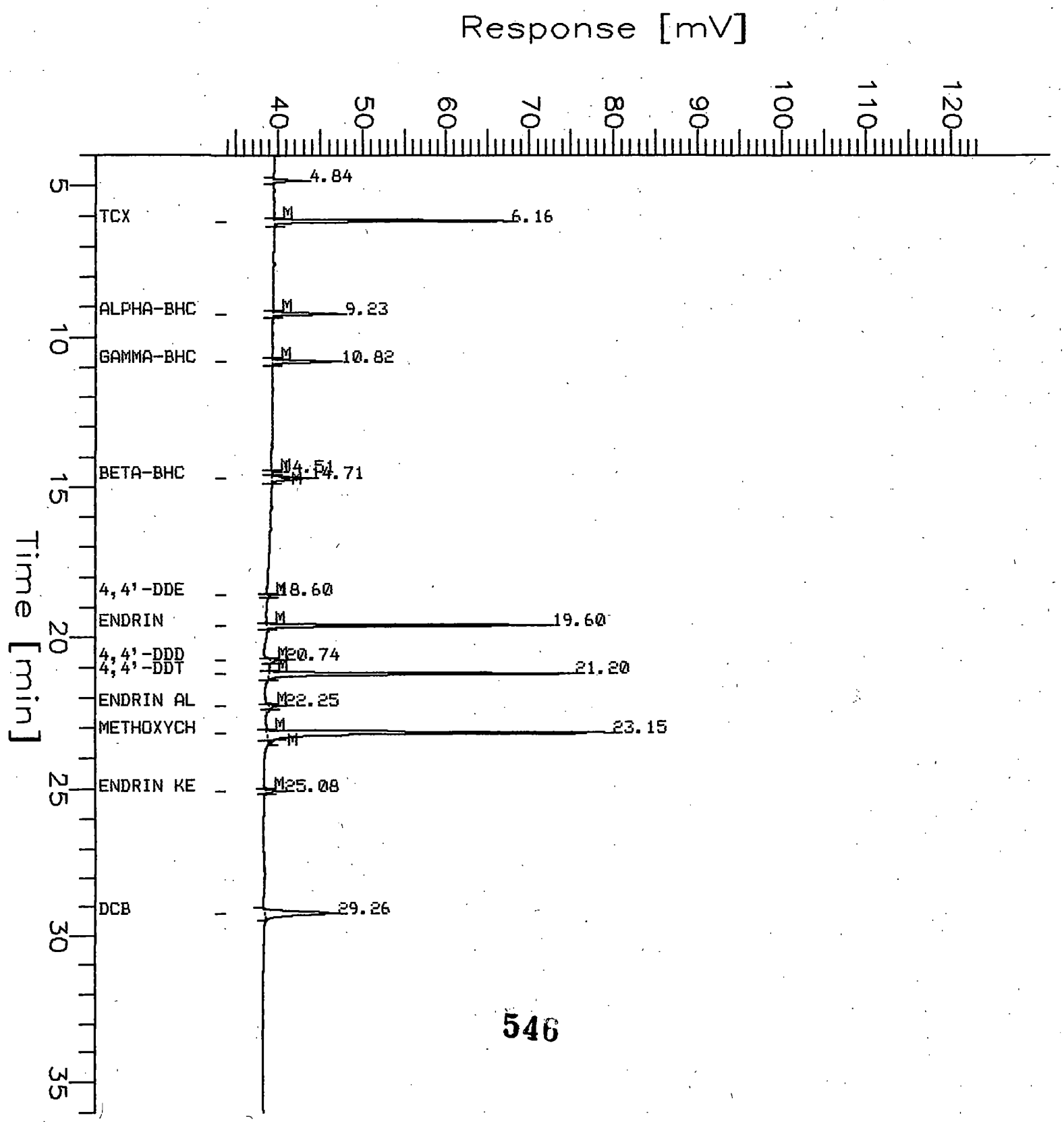
Report Stored in ASCII File: C:\USERS\EPA\8\8A13109.TX0

19026.5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : PEMAG
FileName : C:\USERS\EPA\8\8A13123.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 34 mV

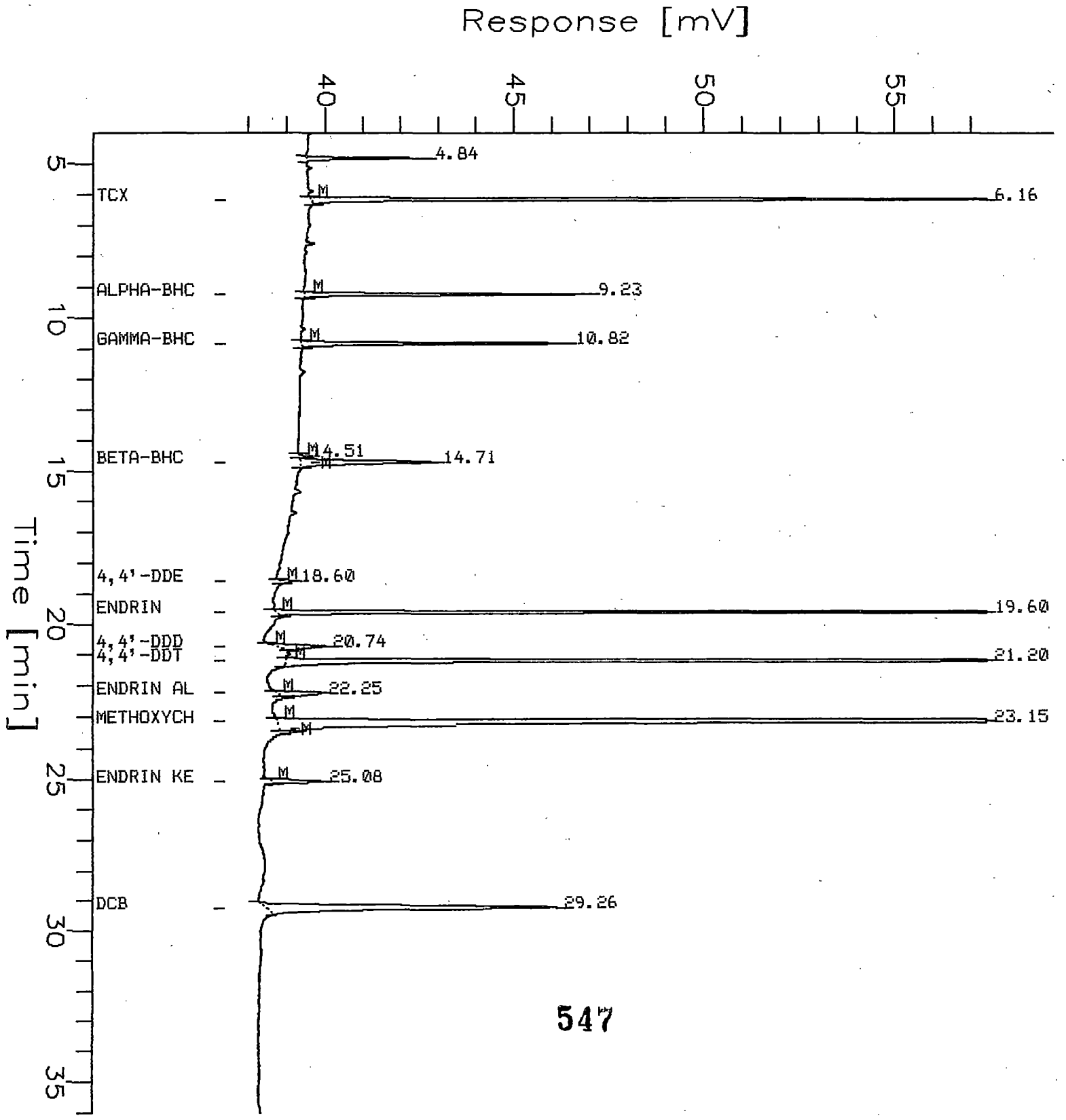
Sample #: Page 1 of 1
Date : 5/28/92 08:23
Time of Injection: 5/22/92 01:15
Low Point : 33.80 mV High Point : 123.80 mV
Plot Scale: 90 mV



INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : PEMAG
FileName : C:\USERS\EPA\8\0A13123.raw
Method : EPA8A.ins
Start Time : 4.01 min End Time : 36.01 min
Scale Factor: 0 Plot Offset: 37 mV

Sample #: Page 1 of 1
Date : 6/2/92 06:02
Time of Injection: 5/22/92 01:15
Low Point : 37.40 mV High Point : 57.42 mV
Plot Scale: 20 mV



Software Version: 3.2 (10J29)
Sample Name : PEMAG
Sample Number:
Operator : LANE

Time : 6/2/92 05:51
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/22/92 01:15
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13123.raw
Result File : c:\users\epa\8\8A13123.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AP.prc
Sample File : C:\USERS\EPA\8\AP.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 14

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.84	11351	3222		0.0
2	6.16	101858	27444	TCX	20.0
3	9.23	33201	7567	ALPHA-BHC	10.0
4	10.82	35476	7059	GAMMA-BHC	10.0
5	14.51	771	106		0.0
6	14.71	25878	3545	BETA-BHC	10.0
7	18.60	1480	312	4,4'-DDE	0.0

8	19.60	120536	33205	ENDRIN	50.0
9	20.74	3749	751	4,4'-DDD	0.0
10	21.20	157886	35884	4,4'-DDT	100.0
11	22.25	2775	601	ENDRIN ALDEHYDE	0.0
12	23.15	238032	40366	METHOXYCHLOR	250.0
13	25.08	4619	984	ENDRIN KETONE	0.0
14	29.26	71849	7624	DCB	20.0
		809461	168671		

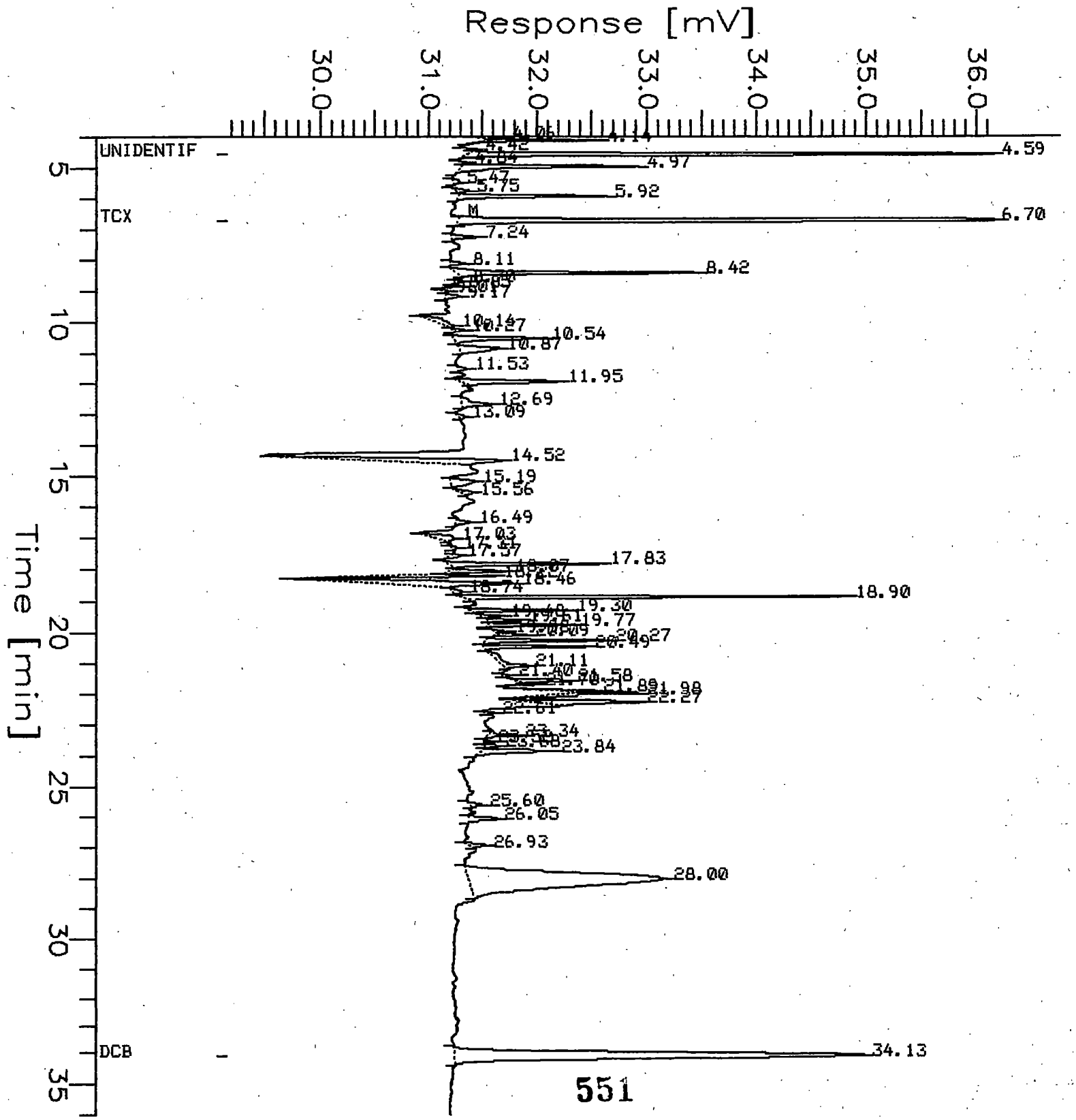
Report Stored in ASCII File: C:\USERS\EPA\8\8A13123.TX0

RAW Q. C. DATA PACKAGE

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : 967210
FileName : C:\USERS\EPA\8\8B13111.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 29 mV

Sample #: PBLKW1 Page 1 of 1
Date : 5/28/92 19:02
Time of Injection: 5/21/92 17:00
Low Point : 29.16 mV High Point : 36.16 mV
Plot Scale: 7 mV



Software Version: 3.2 (10J29)
Sample Name : 967210 Time : 5/27/92 14:21
Sample Number: PBLKW1 Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : B A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/21/92 17:00
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13111.raw
Result File : c:\users\epa\8\8B13111.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BIBM.prc
Sample File : C:\USERS\EPA\8\BMIX.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 63

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
2	4.14	3447	1039	
4	4.59	28318	6262	UNIDENTIFIED PEAK
6	4.97	9094	1627	
8	5.75	584	115	
9	5.92	6789	1371	
10	6.70	60211	14516	TCX
11	7.24	1326	247	

12	8.11	684	149	
13	8.42	11879	2209	
15	8.85	523	136	
17	9.17	917	140	
18	10.14	2005	69	
19	10.27	557	118	
20	10.54	5105	833	
21	10.87	3537	373	
22	11.53	531	88	
23	11.95	5666	909	
24	12.69	2474	270	
26	14.52	12686	1159	
27	15.19	2536	234	
28	15.56	979	109	
29	16.49	894	142	
30	17.03	2135	146	
32	17.57	615	96	
33	17.83	7137	1426	
34	18.07	2702	551	
35	18.22	5120	1149	
36	18.46	12840	1244	
37	18.74	757	86	
38	18.90	13703	3525	
39	19.30	3962	924	
40	19.48	771	210	
41	19.61	1127	309	
42	19.77	3432	783	
44	20.09	1116	283	
45	20.27	5517	1121	
46	20.49	3850	954	
47	21.11	2327	215	
49	21.58	2187	480	
50	21.70	595	175	
51	21.89	1236	286	
52	21.98	4033	667	
53	22.27	5043	918	
55	23.34	1515	282	
57	23.68	517	124	
58	23.84	3961	666	
59	25.60	700	113	
60	26.05	1748	256	
61	26.93	913	141	
62	28.00	56410	1802	
63	34.13	46255	3747	DCB
		352963	54791	

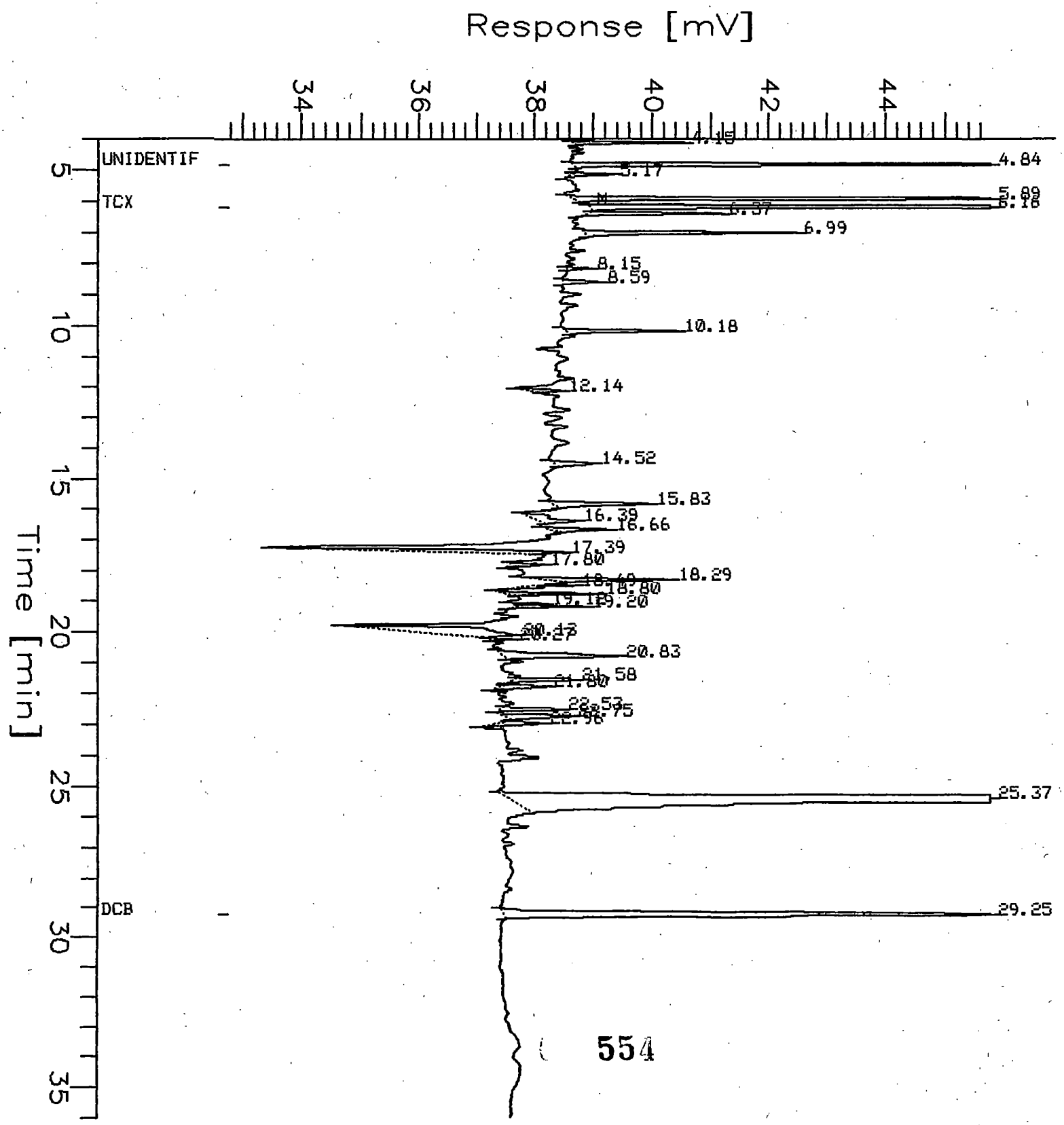
Report Stored in ASCII File: C:\USERS\EPA\8\8B13111.TX0

19028·5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : 967210
FileName : C:\USERS\EPA\8\8A13111.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 33 mV

Sample #: PBLKW1 Page 1 of 1
Date : 5/27/92 18:11
Time of Injection: 5/21/92 17:00
Low Point : 32.77 mV High Point : 45.77 mV
Plot Scale: 13 mV



554

Software Version: 3.2 (10J29)
Sample Name : 967210 Time : 5/26/92 19:41
Sample Number: PBLKW1 Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : A A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/21/92 17:00
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13111.raw
Result File : c:\users\epa\8\8A13111.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AIBM.prc
Sample File : C:\USERS\EPA\8\AMIX.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 32

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
1	4.15	6442	1857	
2	4.84	62308	18066	UNIDENTIFIED PEAK
3	5.17	3182	689	
4	5.89	53067	13810	
5	6.16	93743	25618	TCX
6	6.37	9657	2298	
7	6.99	17514	3619	

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8	8.15	1369	369	
9	8.59	3035	617	
10	10.18	9343	1852	
11	12.14	2997	520	
12	14.52	4607	650	
13	15.83	11027	1601	
14	16.39	7019	618	
15	16.66	5005	946	
16	17.39	18148	1624	
17	17.80	3161	578	
18	18.29	11150	2095	
19	18.49	4476	553	
20	18.80	6669	1539	
21	19.12	1238	460	
22	19.20	3675	1150	
23	20.13	28239	965	
24	20.27	1265	377	
25	20.83	15763	1962	
26	21.58	5373	1054	
27	21.80	4293	814	
28	22.53	5065	1053	
29	22.75	6169	1132	
30	22.96	4937	771	
31	25.37	314263	25519	
32	29.25	76261	8823	DCB
		800457	123597	

Report Stored in ASCII File: C:\USERS\EPA\8\8A13111.TX0

19026.5

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKAA

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

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

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: 05/16/92

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

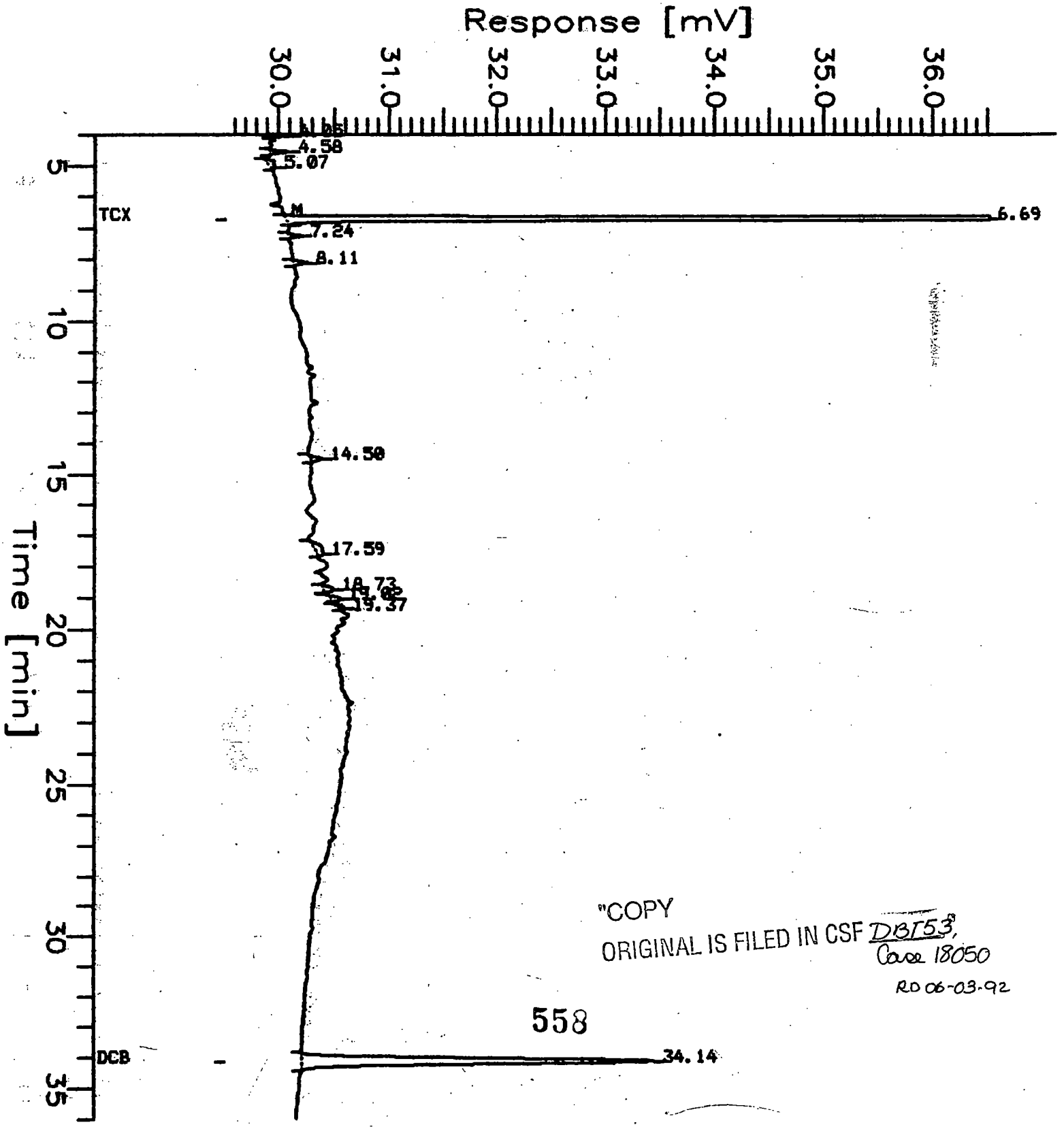
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	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
7421-36-3	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

18026.5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : PIBLKAA
FileName : C:\USERS\EPA\8\8B13001.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 30 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:30
Time of Injection: 5/16/92 10:53
Low Point : 29.52 mV High Point : 36.52 mV
Plot Scale: 7 mV



"COPY
ORIGINAL IS FILED IN CSF DBT53, Case 18050
RD 06-03-92

558

Software Version: 3.2 (10J29)
Sample Name : PIBLKAA
Sample Number:
Operator : LANE

Time : 5/17/92 16:35
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 10:55
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13001.raw
Result File : c:\users\epa\8\8B13001.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BCL.prc
Sample File : C:\USERS\EPA\8\BPIBLK.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBT53"
Case 18056
RD 06-03-92

Total Number of Peaks Detected: 12

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.05	605	163		0.0
2	4.58	809	173		0.0
3	5.07	928	41		0.0
4	6.69	62754	15113	TCX	20.0
5	7.24	555	113		0.0
6	8.11	615	124		0.0
7	14.50	771	100		0.0

559

8	17.59	1631	51		0.0
9	18.73	1023	93		0.0
10	19.02	662	78		0.0
11	19.37	546	47		0.0
12	34.14	40312	3240	DCB	20.0
		111211	19336		

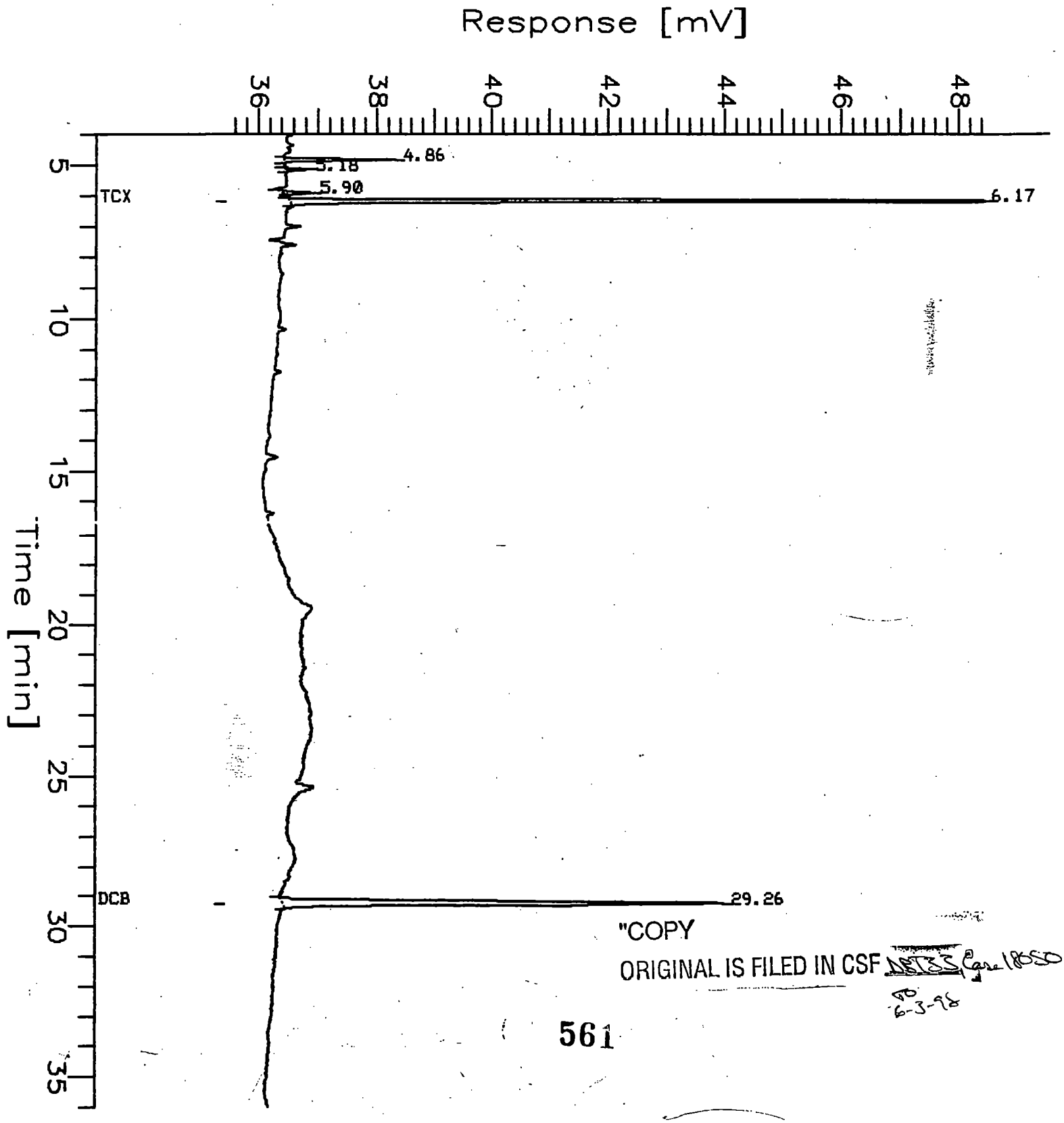
Report Stored in ASCII File: C:\USERS\EPA\8\8B13001.TX0

"COPY
ORIGINAL IS FILED IN CSF DBT53 Case 18050
RD 06-03-92

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : PIBLKAA
FileName : c:\users\epa\8\8A13001.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 35 mV

Sample #: Page 1 of 1
Date : 5/19/92 22:19
Time of Injection: 5/16/92 10:55
Low Point : 35.43 mV High Point : 48.43 mV
Plot Scale: 13 mV



"COPY
ORIGINAL IS FILED IN CSF NBT33 Case 18050
6-3-98

Software Version: 3.2 (10J29)
Sample Name : PIBLKAA Time : 5/17/92 16:41
Sample Number: Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : A A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/16/92 10:55
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : c:\users\epa\8\8A13001.raw
Result File : c:\users\epa\8\8A13001.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\ACL.prc
Sample File : C:\USERS\EPA\8\APIBLK.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF
6-3-92

Total Number of Peaks Detected: 5

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.86	6789	1893		0.0
2	5.18	1180	334		0.0
3	5.90	2105	443		0.0
4	6.17	99052	26848	TCX	20.0
5	29.26	65252	7541	DCB	20.0
		174377	37059		

562

Report Stored in ASCII File: c:\users\epa\8\8A13001.TX0

"COPY
ORIGINAL IS FILED IN CSF
6-3-96

19026.5

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKAB

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

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

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: 05/16/92

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

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

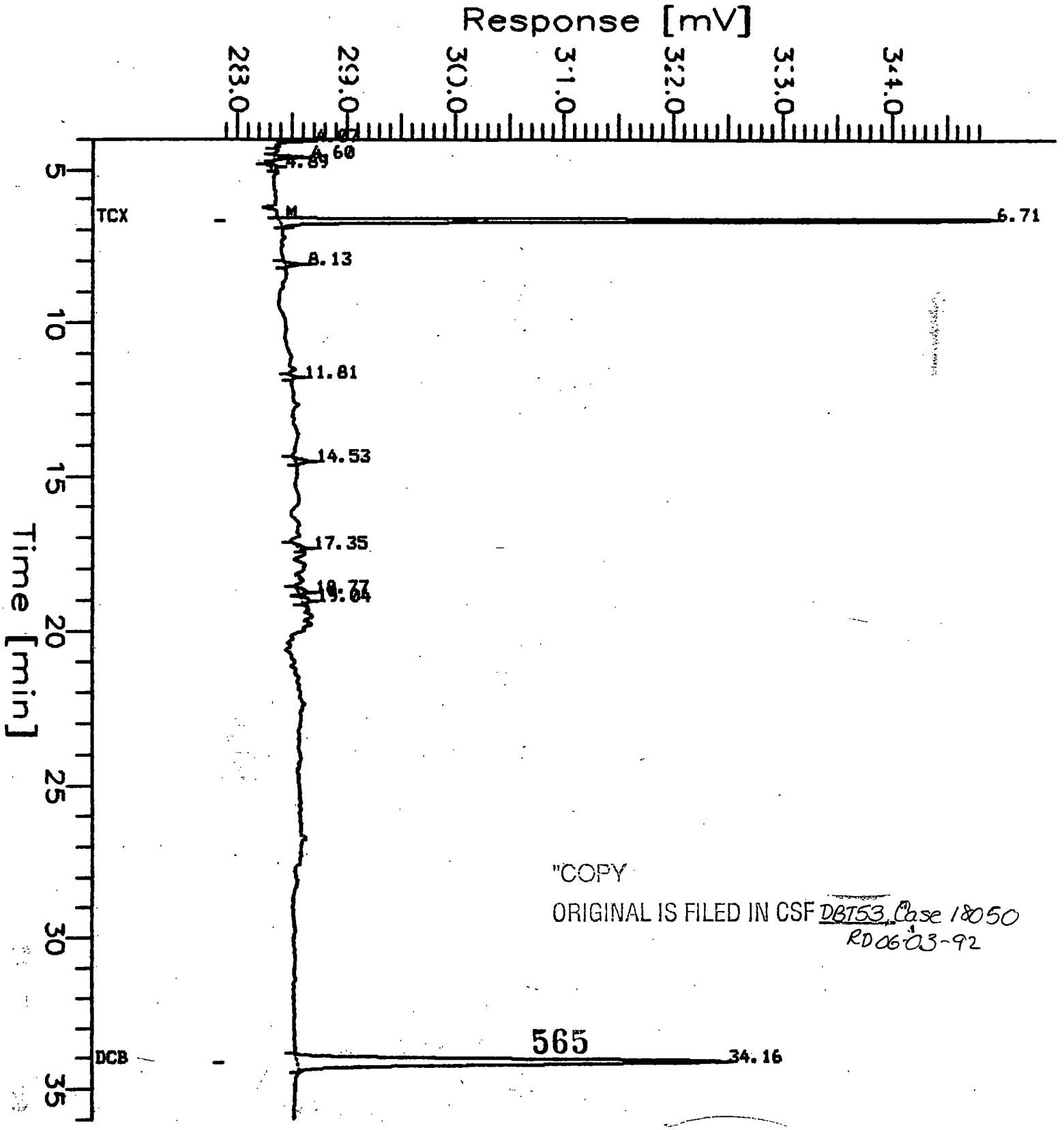
CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	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

19026·5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : PIBLKAB
FileName : C:\USERS\EPA\8\8B13017.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 28 mV

Sample #: Page 1 of 1
Date : 5/20/92 01:48
Time of Injection: 5/16/92 21:54
Low Point : 27.89 mV High Point : 34.89 mV
Plot Scale: 7 mV



"COPY
ORIGINAL IS FILED IN CSF DB753, Case 18050
RD 06-03-92

565

Software Version: 3.2 (10J29)
Sample Name : PIBLKAB
Sample Number:
Operator : LANE

Time : 5/17/92 16:38
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : B A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 21:54
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13017.raw
Result File : c:\users\epa\8\8B13017.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BCL.prc
Sample File : C:\USERS\EPA\8\BPIBLK.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF DBT53, Case18050
RD 06-03-92

Total Number of Peaks Detected: 11

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.07	1408	277		0.0
2	4.60	1301	263		0.0
4	6.71	72129	17295	TCX	20.0
5	8.13	691	137		0.0
7	14.53	955	115		0.0
8	17.35	509	46		0.0
9	18.77	911	75		0.0

10	19.04	696	62		0.0
11	34.16	48301	3887	DCB	20.0
		126901	22155		

Report Stored in ASCII File: C:\USERS\EPA\8\8B13017.TX0

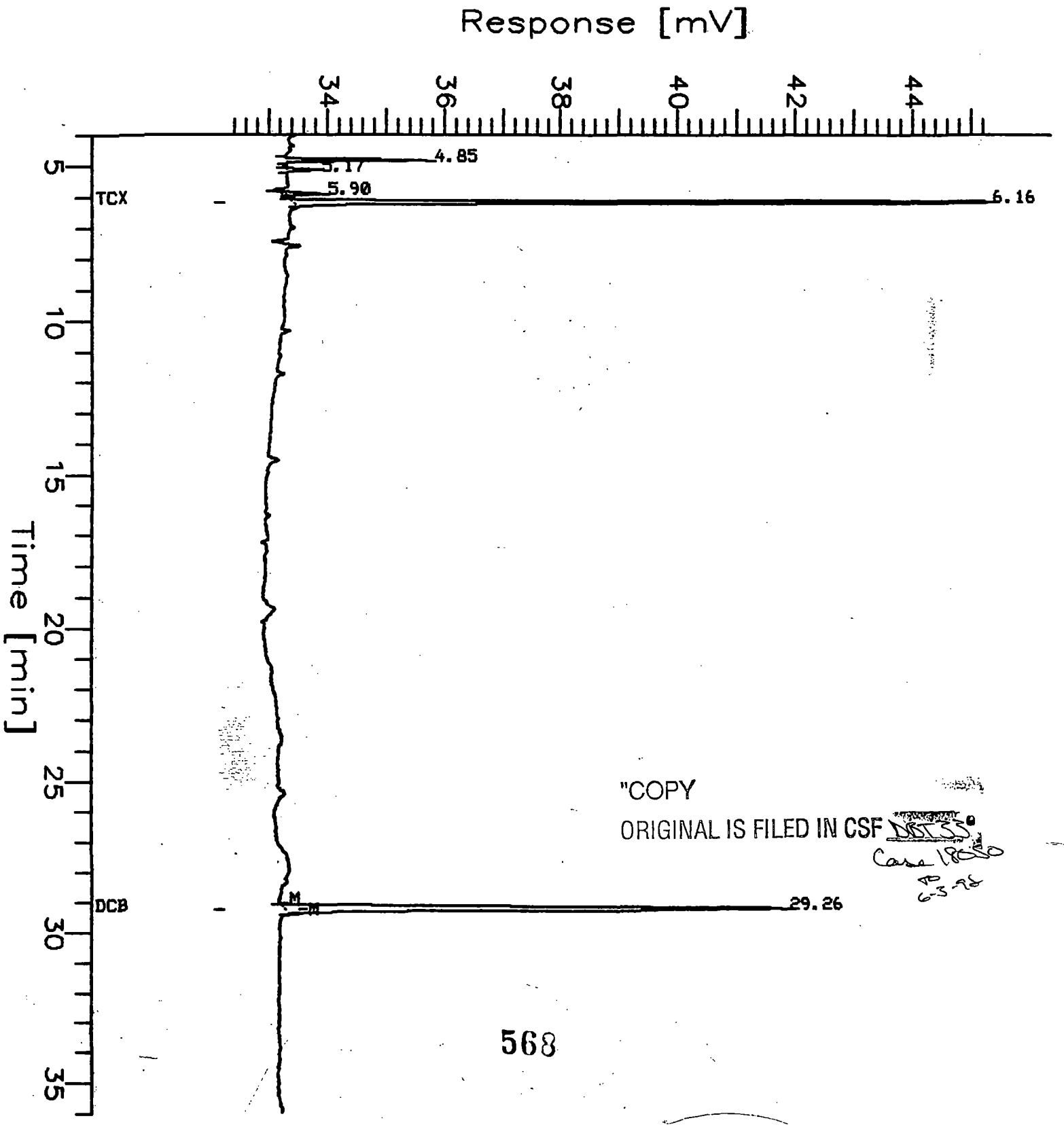
"COPY
ORIGINAL IS FILED IN CSF DBT53," Case 18050
RD 06 03-92

19026·5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : PIBLKAB
FileName : C:\USERS\EPA\8\8A13017.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 32 mV

Sample #: Page 1 of 1
Date : 5/19/92 22:33
Time of Injection: 5/16/92 21:54
Low Point : 32.23 mV High Point : 45.23 mV
Plot Scale: 13 mV



"COPY
ORIGINAL IS FILED IN CSF
Case 18050
6-3-98

Software Version: 3.2 (10J29)
Sample Name : PIBLKAB
Sample Number:
Operator : LANE

Time : 5/17/92 16:44
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/16/92 21:54
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13017.raw
Result File : c:\users\epa\8\8A13017.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\ACL.prc
Sample File : C:\USERS\EPA\8\APIBLK.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80
Multiplier : 1.0000

Area Threshold : 300
Divisor : 1.0000

Bunch Factor: 2
Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

"COPY
ORIGINAL IS FILED IN CSF
Case 18050
P 6-3-96

Total Number of Peaks Detected: 5

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	9002	2402		0.0
2	5.17	1760	456		0.0
3	5.90	2935	599		0.0
4	6.16	109917	29317	TCX	20.0
5	29.26	74792	8477	DCB	20.0
		198404	41250		

569

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Report Stored in ASCII File: C:\USERS\EPA\8\8A13017.TX0

"COPY

ORIGINAL IS FILED IN CSF DST33

Case 18050

6-3-96

1D 19026.5

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKAI

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

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

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: 05/21/92

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

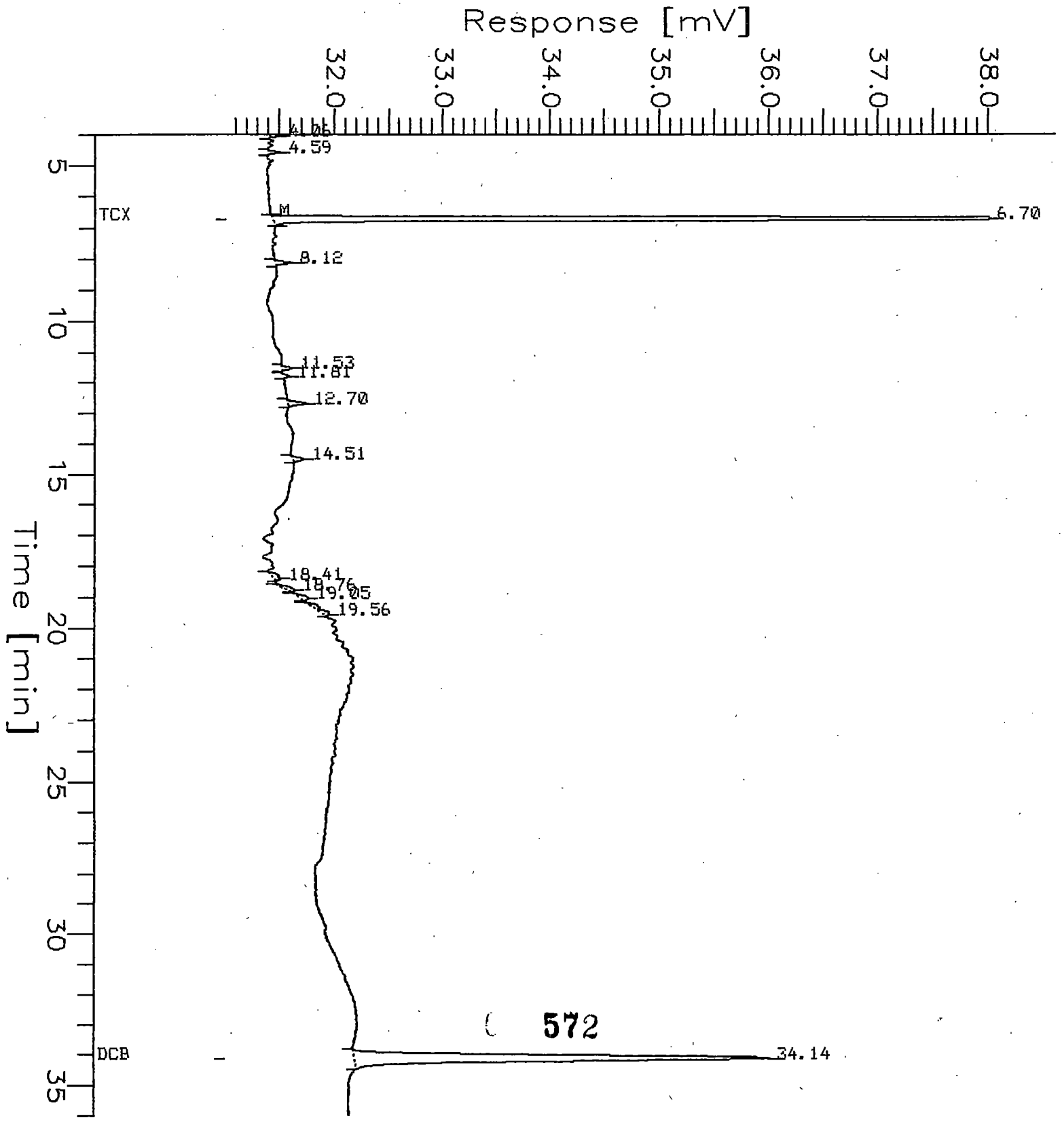
GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

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
7421-36-3	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

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : PIBLKAI
FileName : C:\USERS\EPA\8\8B13092.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 31 mV

Sample #: Page 1 of 1
Date : 5/28/92 18:43
Time of Injection: 5/21/92 03:58
Low Point : 31.01 mV High Point : 38.01 mV
Plot Scale: 7 mV



572

Software Version: 3.2 (10J29)
Sample Name : PIBLKAI Time : 5/29/92 10:11
Sample Number: Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : B A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/21/92 03:58
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13092.raw
Result File : c:\users\epa\8\8B13092.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BCL.prc
Sample File : C:\USERS\EPA\8\BPIBLK.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 13

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
2	4.59	508	112		0.0
3	6.70	68082	16610	TCX	20.0
4	8.12	679	141		0.0
5	11.53	518	86		0.0
7	12.70	1142	160		0.0
8	14.51	737	97		0.0
9	18.41	820	58		0.0

10	18.76	750	59		0.0
11	19.05	715	65		0.0
12	19.56	1262	42		0.0
13	34.14	49480	3814	DCB	20.0
		124692	21245		

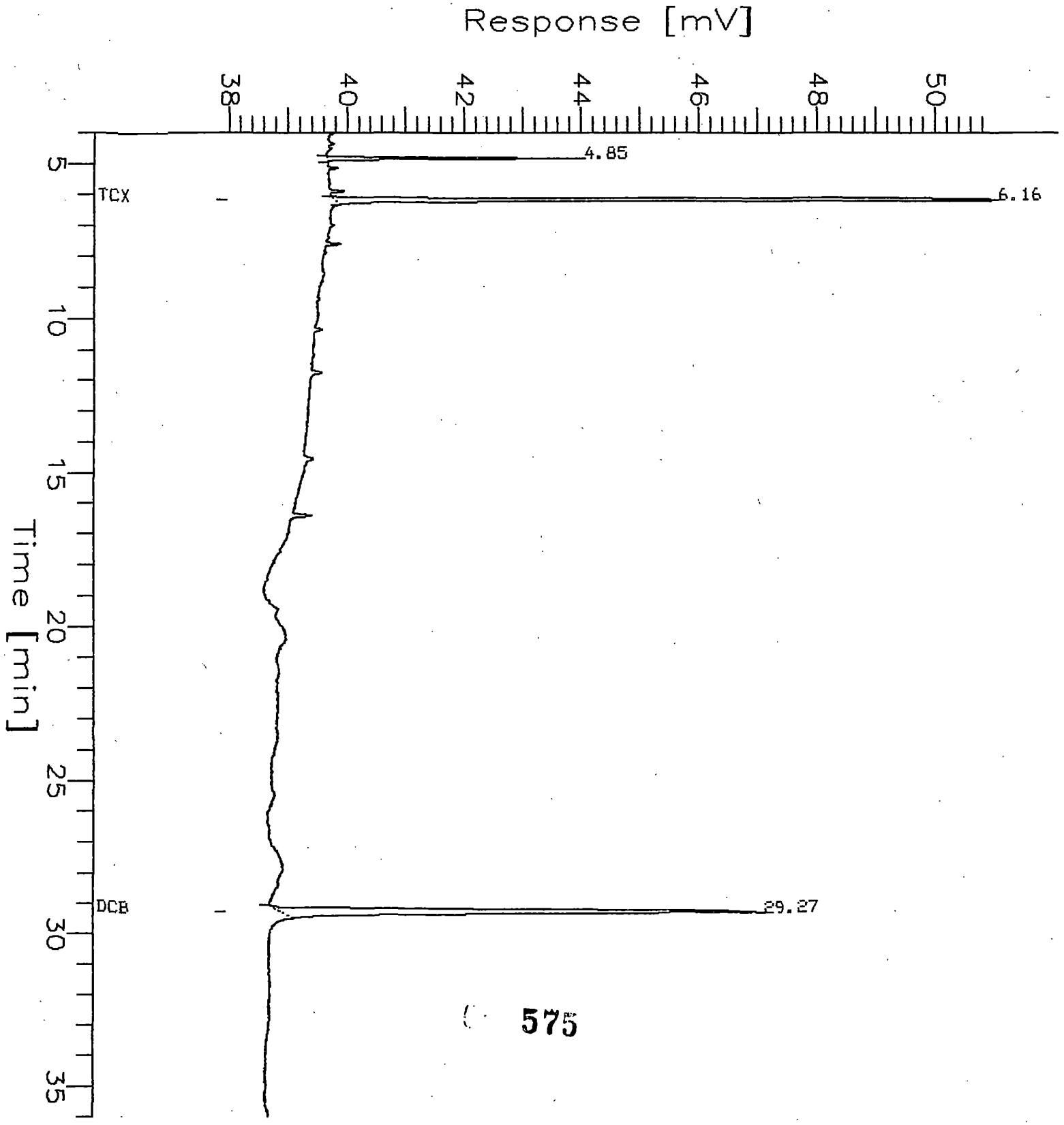
Report Stored in ASCII File: C:\USERS\EPA\8\8B13092.TX0

19026·5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : PIBLKAI
FileName : c:\users\epa\8\8A13092.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 38 mV

Sample #: Page 1 of 1
Date : 5/28/92 08:21
Time of Injection: 5/21/92 03:58
Low Point : 37.96 mV High Point : 50.96 mV
Plot Scale: 13 mV



Software Version: 3.2 (10J29)
Sample Name : PIBLKAI
Sample Number:
Operator : LANE

Time : 5/28/92 07:35
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/21/92 03:58
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : c:\users\epa\8\8A13092.raw
Result File : c:\users\epa\8\8A13092.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\ACL.prc
Sample File : C:\USERS\EPA\8\APIBLK.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 3

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.85	14842	4265		0.0
2	6.16	107839	29223	TCX	20.0
3	29.27	77172	8093	DCB	20.0
		199854	41581		

Report Stored in ASCII File: c:\users\epa\8\8A13092.TX0

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1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKAJ

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

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

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: 05/21/92

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

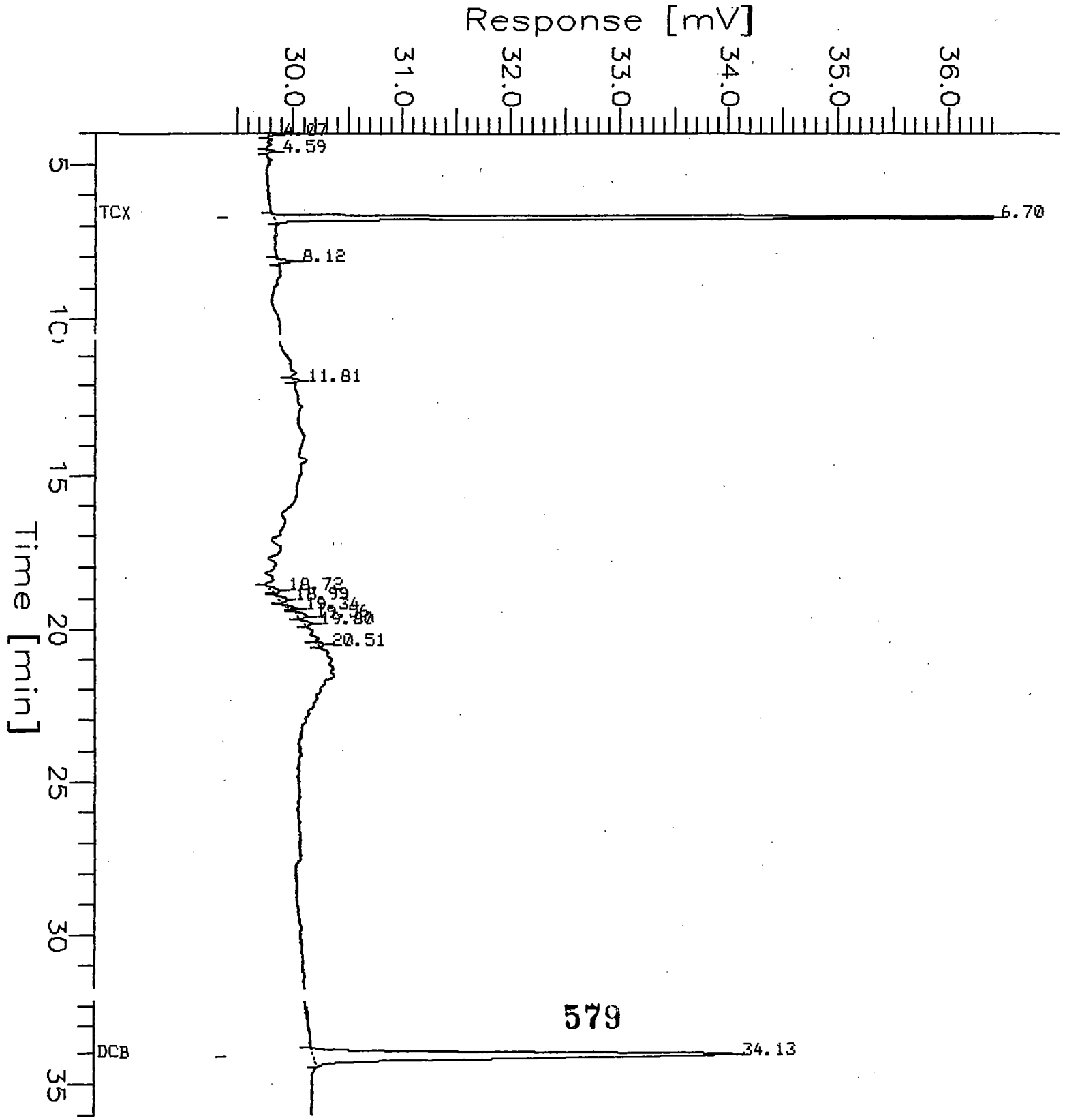
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	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

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : PIBLKAJ
FileName : c:\users\epa\8\8B13107.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 29 mV

Sample #: Page 1 of 1
Date : 5/28/92 18:58
Time of Injection: 5/21/92 14:16
Low Point : 29.41 mV High Point : 36.41 mV
Plot Scale: 7 mV



Software Version: 3.2 (10J29)
Sample Name : PIBLKAJ Time : 5/29/92 10:12
Sample Number: Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : B A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/21/92 14:16
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : c:\users\epa\8\8B13107.raw
Result File : c:\users\epa\8\8B13107.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BCL.prc
Sample File : C:\USERS\EPA\8\BPIBLK.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 12

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
3	6.70	68808	16675	TCX	20.0
4	8.12	684	137		0.0
6	18.72	795	73		0.0
7	18.99	782	78		0.0
9	19.56	769	79		0.0
12	34.13	49642	3867	DCB	20.0

580

121479 20908

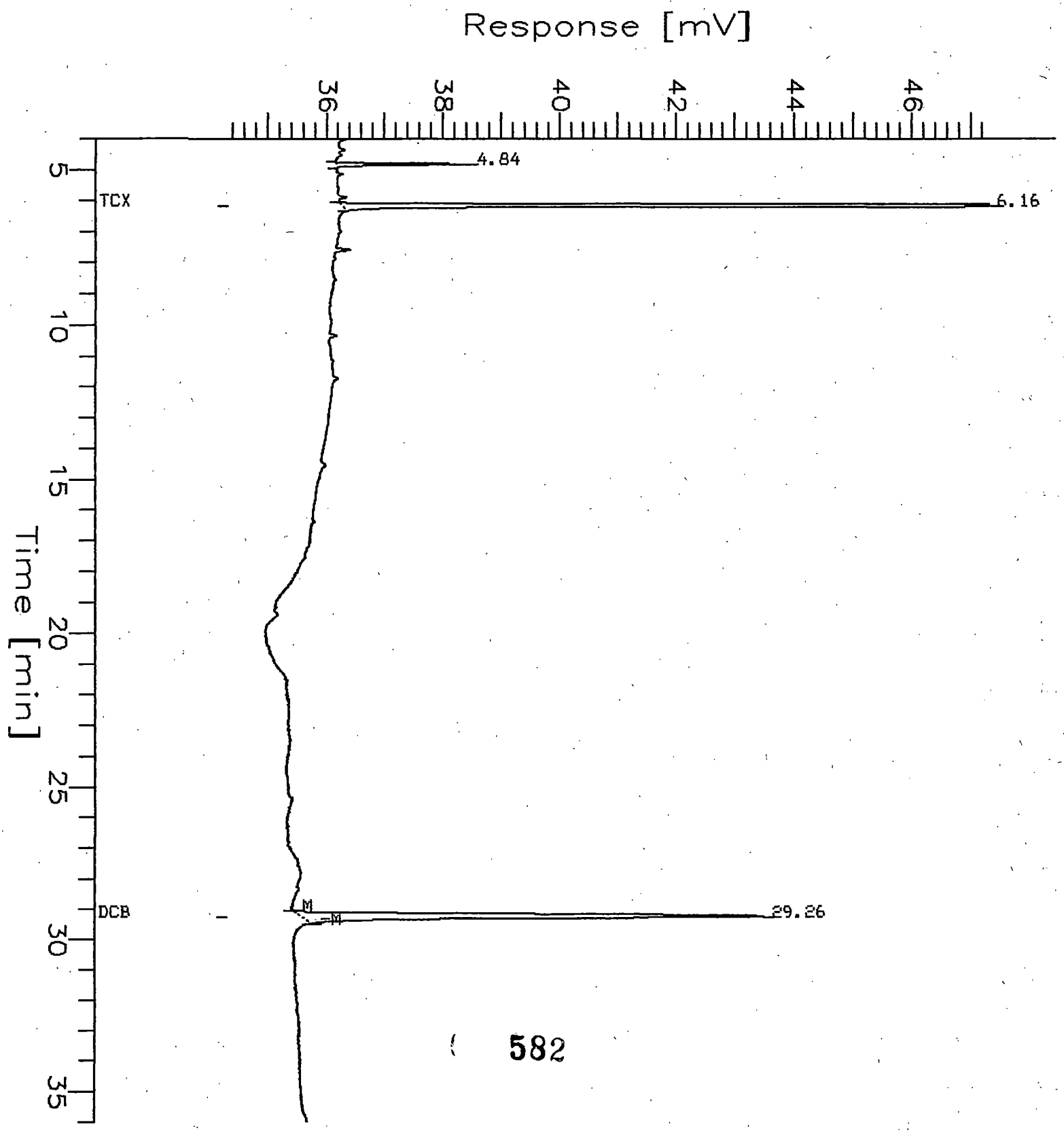
Report Stored in ASCII File: c:\users\epa\8\8B13107.TX0

19028·5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : PIBLKAJ
FileName : C:\USERS\EPA\8\8A13107.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 34 mV

Sample #:
Date : 5/28/92 07:36
Time of Injection: 5/21/92 14:16
Low Point : 34.32 mV High Point : 47.32 mV
Plot Scale: 13 mV



Software Version: 3.2 (10J29)
Sample Name : PIBLKAJ
Sample Number:
Operator : LANE

Time : 5/28/92 07:36
Study : 05/16/92 10:55

Instrument : 08
AutoSampler : NONE
Rack/Vial : 0/0

Channel : A A/D mV Range : 1024

Interface Serial # : Data Acquisition Time: 5/21/92 14:16
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13107.raw
Result File : c:\users\epa\8\8A13107.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\ACL.prc
Sample File : C:\USERS\EPA\8\APIBLK.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul
Sample Amount : 1.0000

Area Reject : 500.00
Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 3

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.84	8253	2301		0.0
2	6.16	107043	28643	TCX	20.0
3	29.26	75185	7909	DCB	20.0
		190481	38853		

Report Stored in ASCII File: C:\USERS\EPA\8\8A13107.TX0

19026.5

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKAK

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

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

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: 05/22/92

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

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

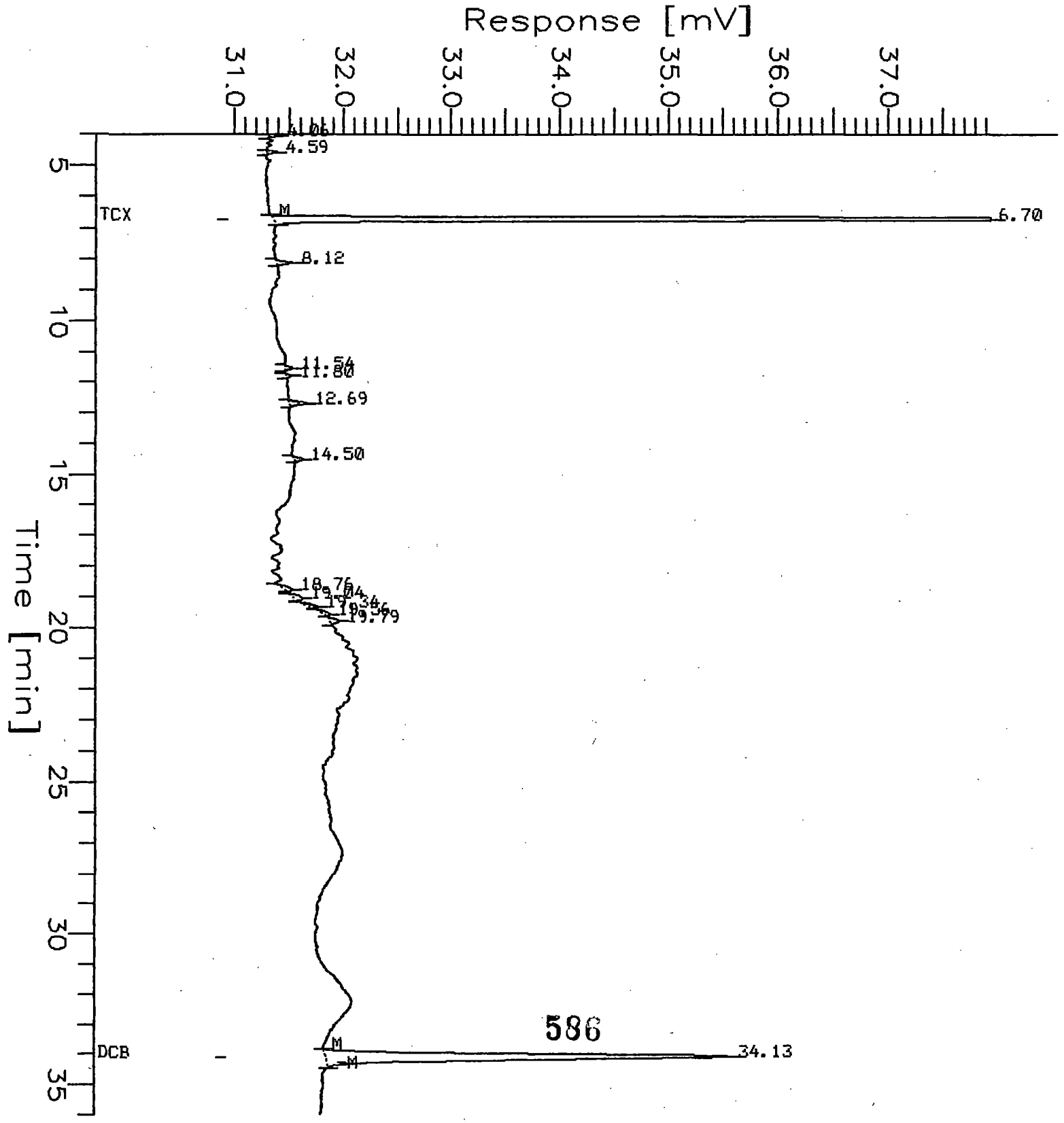
CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	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

19026-5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : PIBLKAK
FileName : C:\USERS\EPA\8\8B13122.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 31 mV

Sample #: Page 1 of 1
Date : 5/28/92 19:13
Time of Injection: 5/22/92 ~~12:34~~ 00:34 05-29-92 JL
Low Point : 30.94 mV High Point : 37.94 mV
Plot Scale: 7 mV



586

Software Version: 3.2 (10J29)
Sample Name : PIBLKAK Time : 5/29/92 10:16
Sample Number: Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : B A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/22/92 ~~12:34~~ 00:34 05-29-92 JL
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13122.raw
Result File : c:\users\epa\8\8B13122.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BCL.prc
Sample File : C:\USERS\EPA\8\BPIBLK.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 14

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
3	6.70	68354	16647	TCX	20.0
4	8.12	668	139		0.0
7	12.69	1075	152		0.0
8	14.50	512	72		0.0
9	18.76	793	68		0.0
10	19.04	714	70		0.0
11	19.34	557	51		0.0

13	19.79	726	81		0.0
14	34.13	47570	3727	DCB	20.0
		120969	21007		

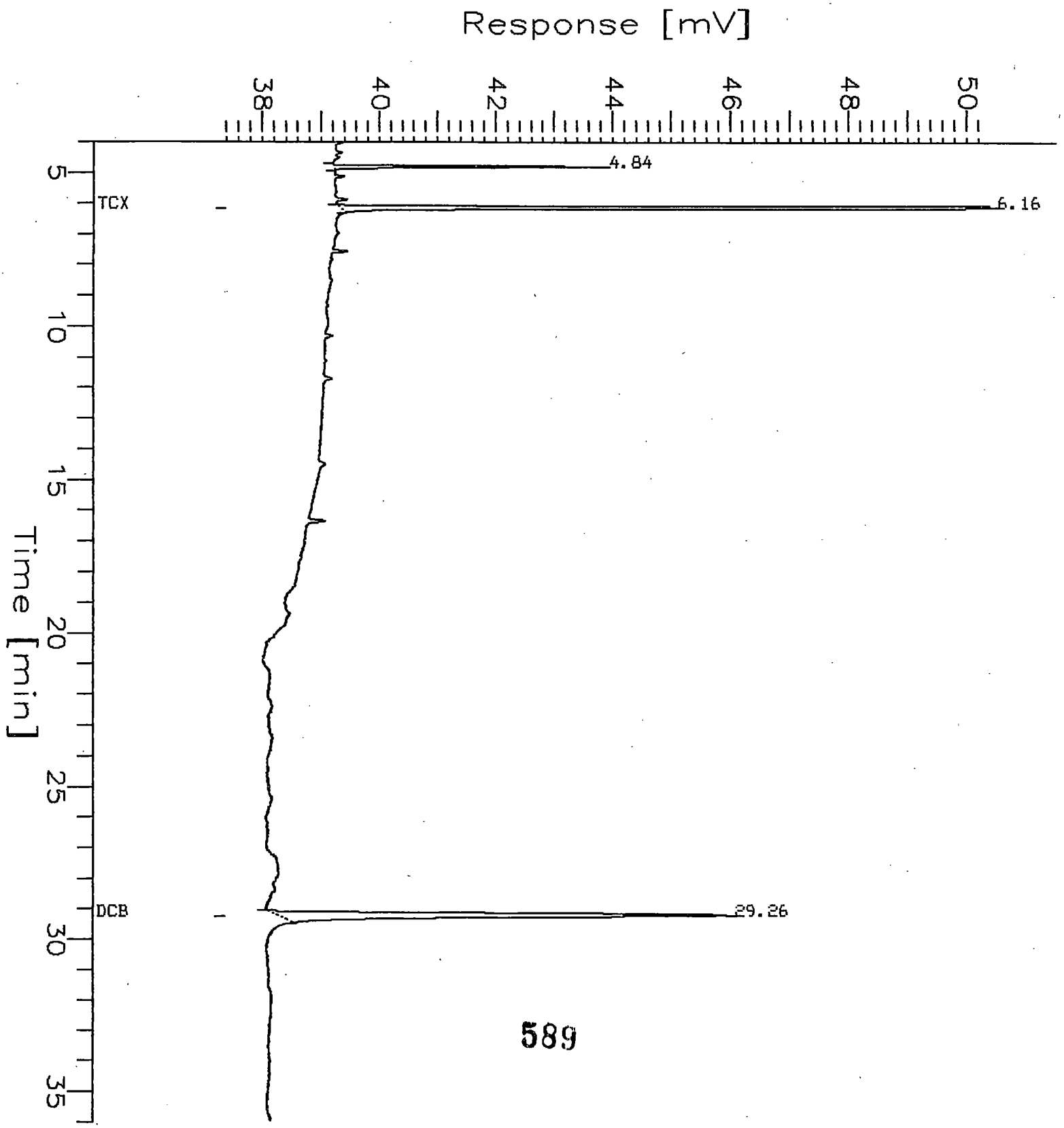
Report Stored in ASCII File: C:\USERS\EPA\8\8B13122.TX0

19026-5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : PIBLKAK
FileName : c:\users\epa\8\8A13122.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 37 mV

Sample #: Page 1 of 1
Date : 5/28/92 08:23
Time of Injection: 5/22/92 ~~12:34~~ 00:34 05-29-92JL
Low Point : 37.38 mV High Point : 50.38 mV
Plot Scale: 13 mV



589

Software Version: 3.2 (10J29)
Sample Name : PIBLKAK Time : 5/28/92 07:38
Sample Number: Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : A A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/22/92 12:34
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

00:34
05-29-92 JZ

Raw Data File : c:\users\epa\8\8A13122.raw
Result File : c:\users\epa\8\8A13122.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\ACL.prc
Sample File : C:\USERS\EPA\8\APIBLK.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 3

STANDARD REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name	Concentration ng/mL
1	4.84	16045	4589		0.0
2	6.16	107343	28912	TCX	20.0
3	29.26	72392	7629	DCB	20.0
		195780	41129		

Report Stored in ASCII File: c:\users\epa\8\8A13122.TX0

19026.5

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK32MS

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967206MS

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/01/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/92

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

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

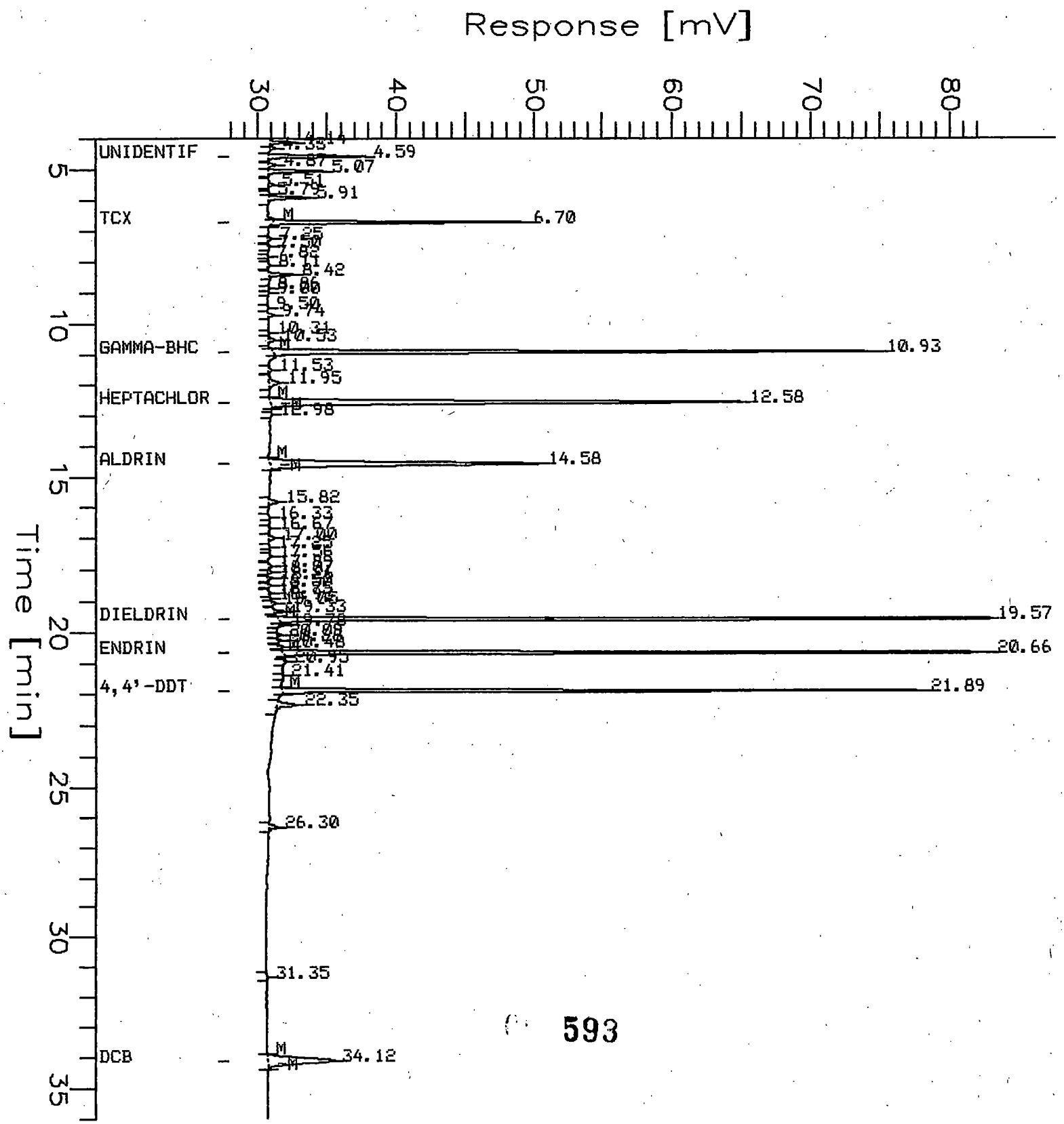
CAS NO.	COMPOUND	Q
319-84-6	alpha-BHC	0.050 U
319-85-7	beta-BHC	0.050 U
319-86-8	delta-BHC	0.050 U
58-89-9	gamma-BHC (Lindane)	0.91
76-44-8	Heptachlor	0.66
309-00-2	Aldrin	0.61
1024-57-3	Heptachlor epoxide	0.050 U
959-98-8	Endosulfan I	0.050 U
60-57-1	Dieldrin	1.8
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	1.8
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	1.7
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin ketone	0.10 U
7421-36-3	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

19026°5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : 967206MS
FileName : C:\USERS\EPA\8\8B13104.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 28 mV

Sample #: EQK32MS Page 1 of 1
Date : 5/30/92 13:00
Time of Injection: 5/21/92 12:12
Low Point : 27.83 mV High Point : 82.83 mV
Plot Scale: 55 mV



Software Version: 3.2 (10J29)
Sample Name : 967206MS Time : 5/27/92 14:17
Sample Number: EQK32MS Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : B A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/21/92 12:12
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13104.raw
Result File : c:\users\epa\8\8B13104.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BIBM.prc
Sample File : C:\USERS\EPA\8\BMIX.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 53

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
1	4.14	7634	1833	
2	4.33	1532	367	
3	4.59	31761	7010	UNIDENTIFIED PEAK
4	4.87	2835	540	
5	5.07	18668	3974	
6	5.51	2559	428	
8	5.91	13746	2876	

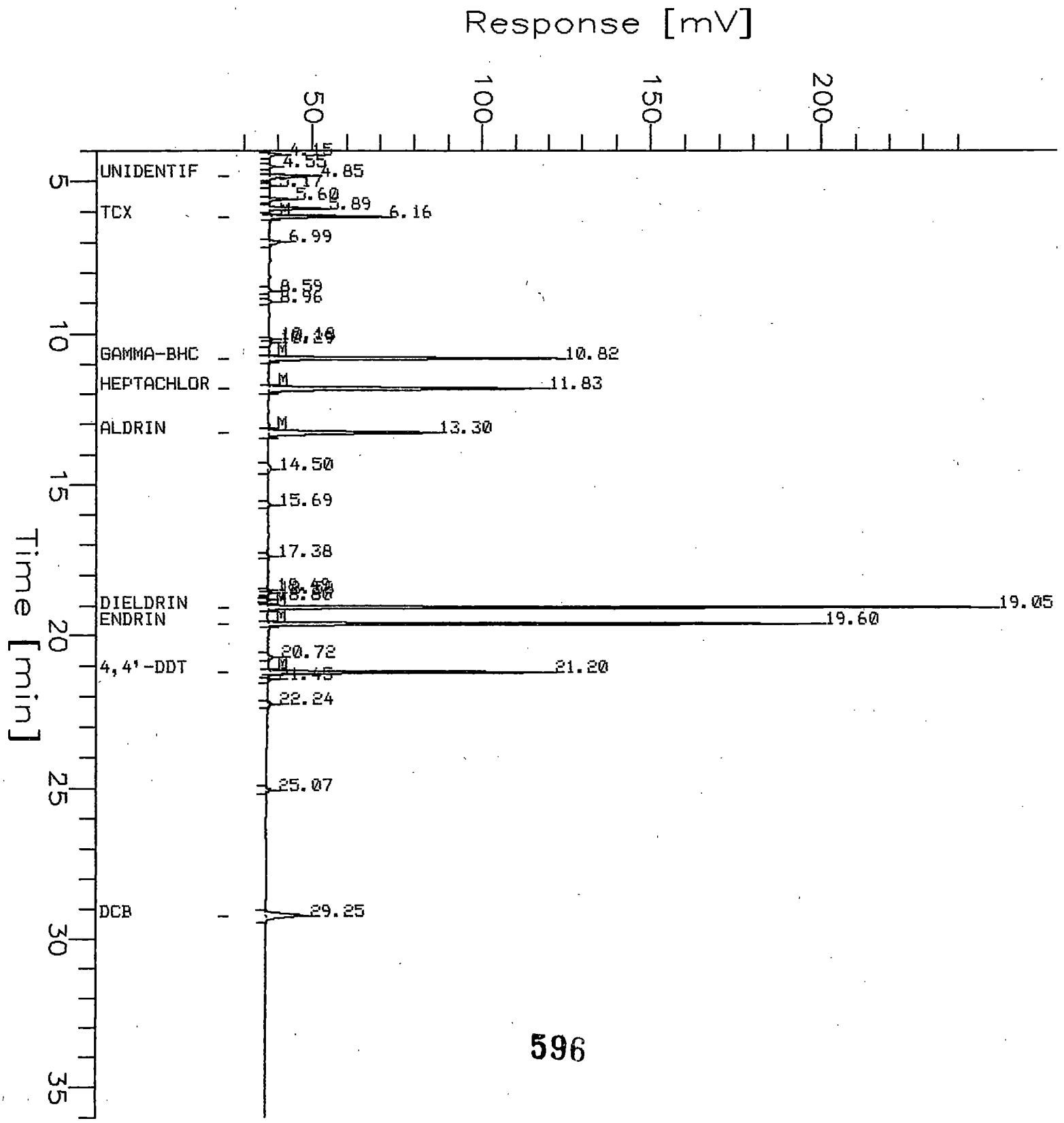
9	6.70	73044	18337	TCX
10	7.25	1496	280	
11	7.50	657	124	
13	8.11	937	178	
14	8.42	8793	1800	
17	9.50	596	108	
18	9.74	2403	415	
20	10.53	2942	475	
21	10.93	204523	44015	GAMMA-BHC
22	11.53	1300	200	
23	11.95	6718	751	
24	12.58	237758	34087	HEPTACHLOR
25	12.98	573	91	
26	14.58	162423	19578	ALDRIN
27	15.82	4990	681	
28	16.33	634	100	
29	16.67	773	146	
30	17.00	2915	430	
32	17.56	1163	217	
33	17.89	1828	246	
34	18.07	1284	271	
35	18.26	1557	368	
36	18.50	676	171	
37	18.75	895	107	
39	19.05	1529	298	
40	19.33	3801	814	
41	19.57	367873	99674	DIELDRIN
42	19.78	1289	366	
43	20.09	1471	358	
44	20.28	1178	249	
45	20.48	1969	365	
46	20.66	267532	64754	ENDRIN
47	20.95	1129	191	
48	21.41	536	83	
49	21.89	199701	46341	4,4'-DDT
50	22.35	10513	1423	
51	26.30	4447	594	
52	31.35	519	57	
53	34.12	58181	4802	DCB
		1721278	360574	

Report Stored in ASCII File: C:\USERS\EPA\8\8B13104.TX0

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : 967206MS
FileName : C:\USERS\EPA\8\8A13104.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: 0 Plot Offset: 25 mV

Sample #: EQK32MS Page 1 of 1
Date : 5/31/92 10:12
Time of Injection: 5/21/92 12:12
Low Point : 25.09 mV High Point : 249.36 mV
Plot Scale: 224 mV



Software Version: 3.2 (10J29)
Sample Name : 967206MS Time : 5/26/92 19:38
Sample Number: EQK32MS Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : A A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/21/92 12:12
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13104.raw
Result File : c:\users\epa\8\8A13104.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AIBM.prc
Sample File : C:\USERS\EPA\8\AMIX.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 29

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
1	4.15	13359	3347	
2	4.55	4888	1451	
3	4.85	62203	12302	UNIDENTIFIED PEAK
4	5.17	1251	325	
5	5.60	20096	5125	
6	5.89	56800	14907	
7	6.16	115405	32313	TCX

8	6.99	19539	3181	
9	8.59	3531	708	
10	8.96	3654	785	
11	10.18	2946	735	
12	10.29	2445	440	
13	10.82	366421	84826	GAMMA-BHC
14	11.83	438526	80352	HEPTACHLOR
15	13.30	288721	47484	ALDRIN
16	14.50	9971	806	
17	15.69	5668	874	
18	17.38	2072	457	
19	18.49	870	248	
20	18.58	3846	1055	
21	18.80	2766	716	
22	19.05	712339	212240	DIELDRIN
23	19.60	550165	161385	ENDRIN
24	20.72	7448	1263	
25	21.20	310967	81654	4,4'-DDT
26	21.45	3708	762	
27	22.24	6031	921	
28	25.07	8588	1349	
29	29.25	95703	10935	DCB
		3119925	762945	

Report Stored in ASCII File: C:\USERS\EPA\8\8A13104.TX0

19026.5

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EQK32MSD

Lab Name: CLAYTON NOVI Contract: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____ SDG No.: EQK13

Matrix: (soil/water) WATER Lab Sample ID: 967206MSD

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

% Moisture: _____ decanted: (Y/N) ___ Date Received: 04/30/92

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/01/92

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/21/92

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

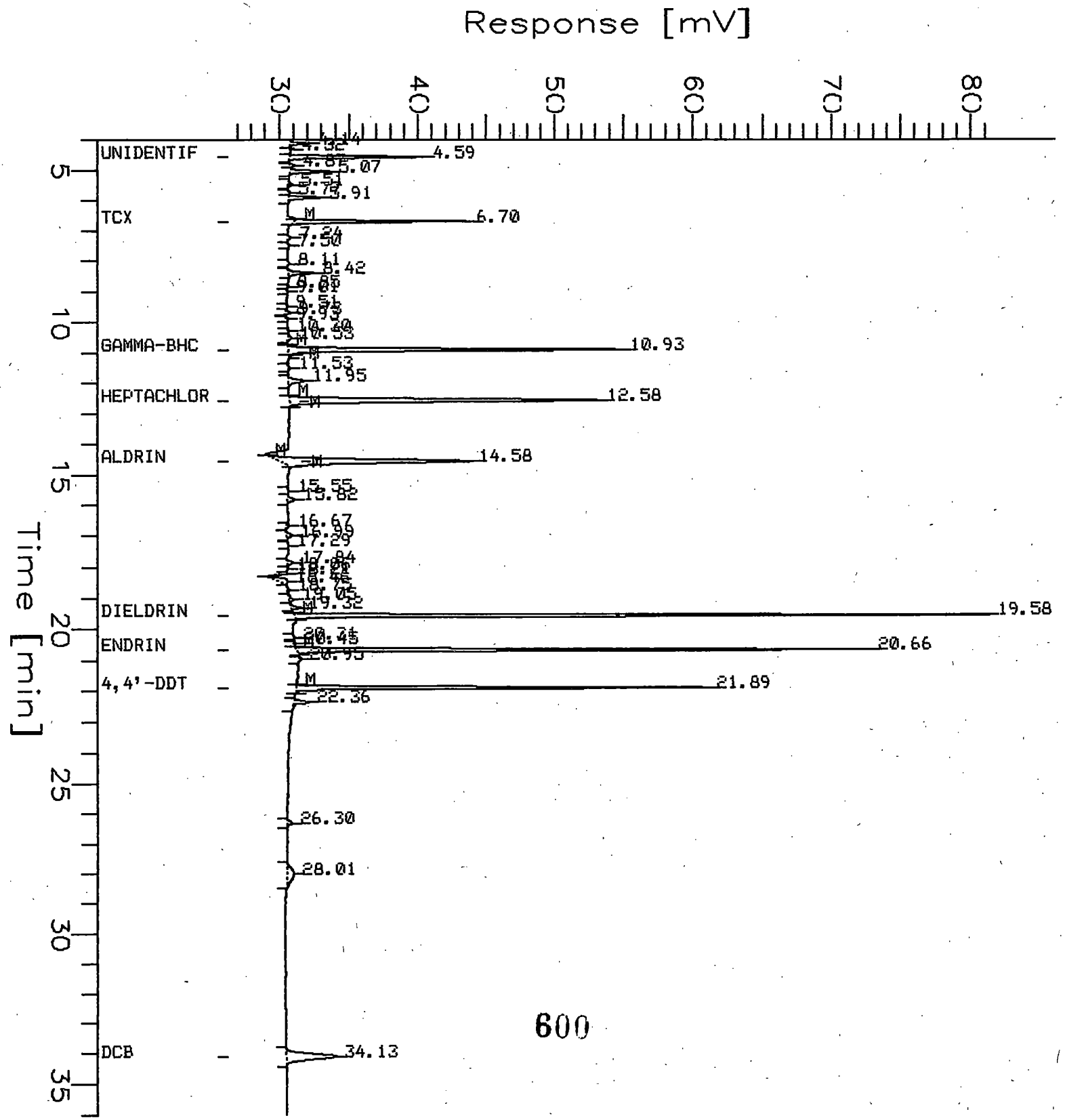
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.54	
76-44-8	Heptachlor	0.44	
309-00-2	Aldrin	0.43	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	1.2	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	1.2	
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	1.2	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-36-3	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

19026·5

INST: 8 DB-608 0.54mm 1uL inj

Sample Name : 967206MSD
FileName : C:\USERS\EPA\8\8B13105.raw
Method : EPA8B.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: -1 Plot Offset: 26 mV

Sample #: EQK32MSD Page 1 of 1
Date : 5/30/92 13:01
Time of Injection: 5/21/92 12:54
Low Point : 26.29 mV High Point : 81.29 mV
Plot Scale: 55 mV



600

Software Version: 3.2 (10J29)
Sample Name : 967206MSD Time : 5/27/92 14:17
Sample Number: EQK32MSD Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : B A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/21/92 12:54
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8B13105.raw
Result File : c:\users\epa\8\8B13105.rst
Instrument File: C:\USERS\EPA\8\EPA8B.ins
Process File : C:\USERS\EPA\8\BIBM.prc
Sample File : C:\USERS\EPA\8\BMIX.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 10 Area Threshold : 50 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D082,
Capillary GC -
Instrument : 08-M
Column : DB-608
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.4cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 47

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
1	4.14	6021	1415	
2	4.32	1175	268	
3	4.59	44168	9819	UNIDENTIFIED PEAK
4	4.87	1239	272	
5	5.07	13761	2845	
6	5.51	1866	304	
8	5.91	11114	2302	

9	6.70	50052	12668	TCX
10	7.24	1371	253	
12	8.11	630	126	
13	8.42	9487	1832	
17	9.73	1996	362	
18	9.93	726	99	
20	10.53	1768	267	
21	10.93	120421	24305	GAMMA-BHC
22	11.53	918	143	
23	11.95	7959	1130	
24	12.58	158961	22483	HEPTACHLOR
25	14.58	121638	13741	ALDRIN
27	15.82	3491	471	
28	16.67	1327	165	
29	16.99	3247	386	
30	17.29	592	59	
31	17.84	3038	452	
32	18.06	574	121	
33	18.21	3645	753	
34	18.46	8509	610	
35	18.75	1277	125	
36	19.05	2161	311	
37	19.32	3257	638	
38	19.58	237097	63298	DIELDRIN
39	20.31	591	78	
40	20.45	555	115	
41	20.66	178449	41523	ENDRIN
42	20.95	1190	177	
43	21.89	133018	29799	4,4'-DDT
44	22.36	7628	1057	
45	26.30	2573	336	
46	28.01	13513	474	
47	34.13	42980	3536	DCB
		1203982	239119	

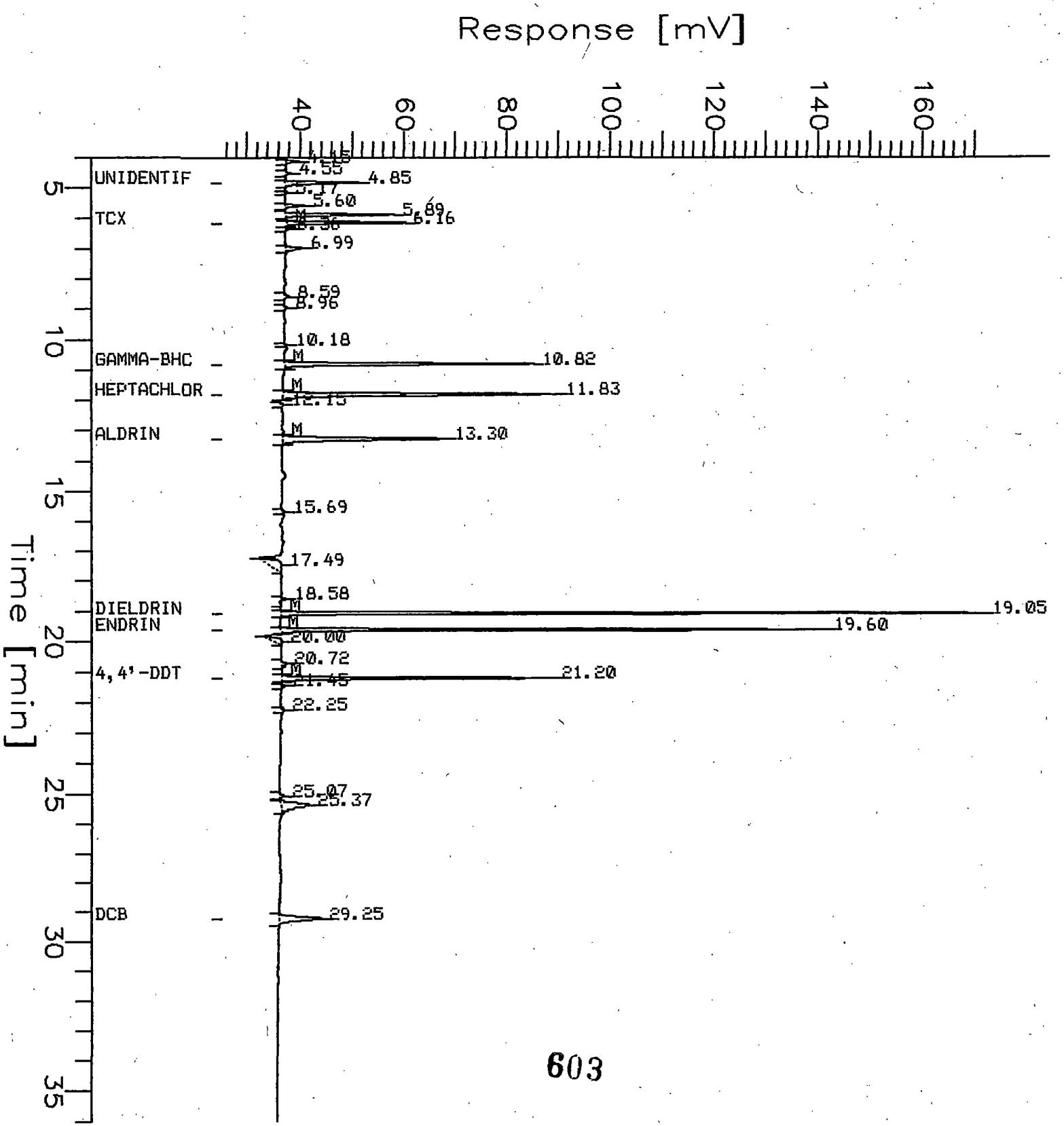
Report Stored in ASCII File: C:\USERS\EPA\8\8B13105.TX0

19026·5

INST: 8 DB-1701 0.55mm 1uL inj

Sample Name : 967206MSD
FileName : C:\USERS\EPA\8\8A13105.raw
Method : EPA8A.ins
Start Time : 4.00 min End Time : 36.01 min
Scale Factor: 0 Plot Offset: 25 mV

Sample #: EQK32MSD Page 1 of 1
Date : 5/31/92 10:12
Time of Injection: 5/21/92 12:54
Low Point : 25.01 mV High Point : 171.69 mV
Plot Scale: 147 mV



603

Software Version: 3.2 (10J29)
Sample Name : 967206MSD Time : 5/26/92 19:38
Sample Number: EQK32MSD Study : 05/16/92 10:55
Operator : LANE

Instrument : 08 Channel : A A/D mV Range : 1024
AutoSampler : NONE
Rack/Vial : 0/0

Interface Serial # : Data Acquisition Time: 5/21/92 12:54
Delay Time : 4.00 min.
End Time : 36.01 min.
Sampling Rate : 2.5000 pts/sec

Raw Data File : C:\USERS\EPA\8\8A13105.raw
Result File : c:\users\epa\8\8A13105.rst
Instrument File: C:\USERS\EPA\8\EPA8A.ins
Process File : C:\USERS\EPA\8\AIBM.prc
Sample File : C:\USERS\EPA\8\AMIX.smp
Sequence File : c:\users\epa\8\epa813.seq

Inj. Volume : 1 ul Area Reject : 500.00
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 80 Area Threshold : 300 Bunch Factor: 2
Multiplier : 1.0000 Divisor : 1.0000 Adder : 0.0000

Instrument Conditions:
/D081,
Capillary GC -
Instrument : 08-L
Column : DB-1701
Column Length : 30M
Carrier Gas : HELIUM
Flow Rate : 5.0cc per min
Split Ratio : 20cc per min
Temperature : Initial column temp 170 C,0 min initial hold,
4 degree C/min ramped to 210 C, hold for 5 minutes,
then ramped at 15 C/min to 275, hold for 15 min.
Injection Temp.: 210 C
Detector A : 350 C

Total Number of Peaks Detected: 29

SAMPLE REPORT

Peak #	Time [min]	Area [uV*sec]	Height [uV]	Component Name
1	4.15	8260	2363	
2	4.55	3173	972	
3	4.85	63653	14293	UNIDENTIFIED PEAK
4	5.17	1295	327	
5	5.60	14940	3634	
6	5.89	79147	20989	
7	6.16	83486	22824	TCX

8	6.36	2216	553	
9	6.99	17712	3115	
10	8.59	4487	927	
11	8.96	2722	586	
12	10.18	1351	343	
13	10.82	210962	48207	GAMMA-BHC
14	11.83	297196	53430	HEPTACHLOR
15	12.15	2208	359	
16	13.30	196576	31632	ALDRIN
17	15.69	2427	436	
18	17.49	51101	2046	
19	18.58	1684	756	
20	19.05	463391	135195	DIELDRIN
21	19.60	362379	104981	ENDRIN
22	20.00	22796	1266	
23	20.72	6708	864	
24	21.20	207004	52606	4,4'-DDT
25	21.45	3233	709	
26	22.25	2410	401	
27	25.07	4671	772	
28	25.37	61313	5309	
29	29.25	68680	7904	DCB
		2247183	517797	

Report Stored in ASCII File: C:\USERS\EPA\8\8A13105.TX0

Client: Mr. Johnathan Rude
Sample Management Office
U.S. ENVIRONMENTAL PROTECTION
300 North Lee Street, Ste-200
Alexandria, VA 22314

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LABORATORY ANALYSIS REPORT

Page of
Part of

Log in Date: 30-APR-92

Media: SOIL

Job No.: 80138-17

Special Instr: CASE 19026; REGION V; SDG#=EQK~~30~~ 13; RD04-30-92

P.O.No.: d1-0087/19026

CONTRACT 68-D1-0087; CASE COMPLETE!

Tel No.: (703) 557-2490

Analyses Requested			GC/MS VOA (CLP)							
Lab Number	Sample Description	Air Vol.	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )
967174	EQK EQ13 VOA									
967175	EQK EQ13 VOA EXTRA									
967176	EQK EQ14 VOA MS/MSD									
967177	EQK EQ14 VOA EXTRA									
967178	EQK EQ15 VOA									
967179	EQK EQ15 VOA EXTRA									
967180	EQK EQ16 VOA									
967181	EQK EQ16 VOA EXTRA									
967182	EQK EQ17 VOA									
967183	EQK EQ17 VOA EXTRA									
967184	EQK EQ18 VOA									
967185	EQK EQ18 VOA EXTRA									

RD 04-30-92

Comments:	Analyst:				
	Date Comp:				
	Q.C.Blank:				
	Q.C.1:				
	Q.C.2:				
	Method:				
	L.O.D.:				

☐ Charged
☐ Approved

080482

606

19026-5

Client: Mr. Johnathan Rude
Sample Management Office
U.S. ENVIRONMENTAL PROTECTION
300 North Lee Street, Ste-200
Alexandria, VA 22314

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LABORATORY ANALYSIS REPORT

Page of
Part of

Log in Date: 30-APR-92

Media: SOIL

Job No.: 80138-17

Special Instr: , CASE 19026; REGION V; SDG#=EQK30; 13 RD 04-30-92

P.O.No.: d1-0087/19026

CONTRACT 68-D1-0087; CASE COMPLETE!

Tel No.: (703) 557-2490

Analyses Requested			GC/MS VOA (CLF)							
Lab Number	Sample Description	Air Vol.	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )
967186	EKQ19 VOA QK									
967187	EKS19 VOA EXTRA QK									

RD 04-30-92

Comments:	Analyst:				
	Date Comp:				
	Q.C.Blank:				
	Q.C.1:				
	Q.C.2:				
	Method:				
	L.O.D.:				

☐ Charged
☐ Approved

080482

607

19026-5

Client: Mr. Johnathan Rude
Sample Management Office
U.S. ENVIRONMENTAL PROTECTION
300 North Lee Street, Ste-200
Alexandria, VA 22314

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LABORATORY ANALYSIS REPORT

Page of
Part of

Log in Date: 30-APR-92

Media: WATER

Job No.: 80138-17

Special Instr: CASE 19026; REGION V; SDG#=EQK13;
CONTRACT 68-D1-0087; CASE COMPLETE!

P.O.No.: d1-0087/19026

Tel No.: (703) 557-2490

Analyses Requested			GC/MS VOA (CLP)							
Lab Number	Sample Description	Air Vol.	Units		Units		Units		Units	
			( )	( )	( )	( )	( )	( )	( )	( )
967188	EQK30 VOA									
967189	EQK30 VOA EXTRA									
967190	EQK31 VOA									
967191	EQK31 VOA EXTRA									
967192	EQK32 VOA MS/MSD									
967193	EQK32 VOA EXTRA									
967194	EQK32 VOA EXTRA									
967195	EQK32 VOA EXTRA									
967196	EQK33 VOA									
967197	EQK33 VOA EXTRA									
967198	EQK34 VOA									
967199	EQK34 VOA EXTRA									

Comments:					
	Analyst:				
	Date Comp:				
	Q.C.Blank:				
	Q.C.1:				
	Q.C.2:				
	Method:				
	L.O.D.:				

☐ Charged
☐ Approved

080482

608

19026.5

Client: Mr. Johnathan Rude
Sample Management Office
U.S. ENVIRONMENTAL PROTECTION
300 North Lee Street, Ste-200
Alexandria, VA 22314

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LABORATORY ANALYSIS REPORT

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Part of

Log in Date: 30-APR-92

Media: WATER

Job No.: 80138-17

Special Instr: CASE 19026; REGION V; SDG#=EQK13;
CONTRACT 68-D1-0087; CASE COMPLETE!

P.O.No.: d1-0087/19026

Tel No.: (703) 557-2490

Analyses Requested			GC/MS VOA (CLP)							
Lab Number	Sample Description	Air Vol.	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )
967243	EQK32 VOA EXTRA									
967244	EQK32 VOA EXTRA									

Comments:					
	Analyst:				
	Date Comp:				
	Q.C.Blank:				
	Q.C.1:				
	Q.C.2:				
	Method:				
	L.O.D.:				

☐ Charged
☐ Approved

080482

609

19026-5

Client: Mr. Johnathan Rude
Sample Management Office
U.S. ENVIRONMENTAL PROTECTION
300 North Lee Street, Ste-200
Alexandria, VA 22314

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LABORATORY ANALYSIS REPORT

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Log in Date: 30-APR-92
Job No.: 80138-17
P.O.No.: d1-0087/19026
Tel No.: (703) 557-2490

Media: WATER

Special Instr: CASE 19026; REGION V; SDG#=EQK13;
CONTRACT 68-D1-0087; CASE COMPLETE!

Analyses Requested			B/N/A Extraction (CLP)		GC/MS B/N/A (CLP)					
Lab Number	Sample Description	Air Vol.	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )
967200	EQK30 BNA/P									
967201	EQK30 BNA/P EXTRA									
967202	EQK31 BNA/P									
967203	EQK31 BNA/P EXTRA									
967204	EQK32 BNA/P MS/MSD									
967205	EQK32 BNA/P EXTRA									
967206	EQK32 BNA/P EXTRA									
967207	EQK32 BNA/P EXTRA									
967208	EQK33 BNA/P									
967209	EQK33 BNA/P EXTRA									
967210	S,PBLK									

Comments:					
	Analyst:				
	Date Comp:				
	Q.C.Blank:				
	Q.C.1:				
	Q.C.2:				
	Method:				
	L.O.D.:				

☐ Charged
☐ Approved

080482

610

19026.5

Client: Mr. Johnathan Rude
Sample Management Office
U.S. ENVIRONMENTAL PROTECTION
300 North Lee Street, Ste-200
Alexandria, VA 22314

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LABORATORY ANALYSIS REPORT

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Log in Date: 30-APR-92

Media: WATER

Job No.: 80138-17

Special Instr: CASE 19026; REGION V; SDG#=EQK13;
CONTRACT 68-D1-0087; CASE COMPLETE!

P.O.No.: d1-0087/19026

Tel No.: (703) 557-2490

Analyses Requested			Extraction (CLP)		Pesticides/PCB (CLP)					
Lab Number	Sample Description	Air Vol.	Units		Units		Units		Units	
			( )	( )	( )	( )	( )	( )	( )	( )
967200	EQK30 BNA/P									
967201	EQK30 BNA/P EXTRA									
967202	EQK31 BNA/P									
967203	EQK31 BNA/P EXTRA									
967204	EQK32 BNA/P MS/MSD									
967205	EQK32 BNA/P EXTRA									
967206	EQK32 BNA/P EXTRA									
967207	EQK32 BNA/P EXTRA									
967208	EQK33 BNA/P									
967209	EQK33 BNA/P EXTRA									
967210	S,PBLK									

Comments:	Analyst:				
	Date Comp:				
	Q.C.Blank:				
	Q.C.1:				
	Q.C.2:				
	Method:				
	L.O.D.:				

☐ Charged
☐ Approved

080482

611

19026.5

050192 CLAYTON EXTRACTION H. Summerson 19026 · 5

Case 19026; REGION V; SDG # EQK13

The following water samples were recieved from the P.A. @ 0840 for Pesticides PCB extraction according to C.L.P. protocol and returned @ 1000:

CLAYTON #	SMO #	Vol, mL	pH	Appearance
967200	EQK30	1000	7.0	Pale Yellow
202	EQK31			
204	EQK32			
206	EQK32MS			
206	EQK32MSD			
208	EQK33			Clear, Colorless
210	PBLKW1			Clear, Colorless

Each above recieved 1.0 mL Pest. surrogate # 44449 @ 200ppb, with the MS+MSD recieving an additional 1.0 mL Pest matrix spike # 44448 @ 0.5/1.0ppm.

Samples were extracted and completed according to C.L.P. protocol.

$MeCl_2$ lot # BC480
Hexane lot # F04255
Florisil lot # AC157
Stored fr # 16, Tray 11
ACETONE lot # BC078

REVIEWED BY: [illegible]
DATE: May 1, 1992

05/04/92 Clayton Extraction

Case 19026; Region II; SDG EQK13

Robert Wilson

19026 · 5

The following water samples were received at 11:00 for BNA extraction:

EQK30 EQK32 SBLKW1
EQK31 EQK33

Samples were returned to S.A at 13:00

Clayton #	Sample #	Volume	pH
967201	EQK30	1000	7.0
967203	EQK31	↓	7.0
967205	EQK32	↓	7.0
967207	EQK32 MS	↓	7.0
967207	EQK32 MSD	↓	7.0
967209	EQK33	↓	7.0
967210	SBLKW1	↓	7.0

All samples received 0.5 mL of BNA surrogate # 44736 at 100/150 ppm. Samples designated as MS and MSD received an additional 0.5 mL of BNA matrix spike # 44363 at 100/150 ppm.

Samples were extracted by liquid/liquid extraction per CLP protocols.

MeCl2 lot # BC480

REVIEWED BY: [illegible]

DATE: 050592

CLAYTON EXTRACTION 19026 : 5 070

5-05-92 CASE 19026; REGION V; SDG# = EQK13 Mpatricia L. Mazyka

THE following semivolatile water extracts were removed from the liquid-liquid extractors and completed per C.L.P. protocol:

EQK 30 EQK 32MS SBLKW1
EQK 31 EQK 32MSD
EQK32 EQK 33

FINAL Vol: 1.0ml. 05092
$MeCl_2$ LOT# : ~~668~~ BL668
STORED: FREEZER 16, TRAY 10

REVIEWED BY: [signature]
DATE: 5-5-92

Client: Mr. Johnathan Rude
Sample Management Office
U.S. ENVIRONMENTAL PROTECTION
300 North Lee Street, Ste-200
Alexandria, VA 22314

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LABORATORY ANALYSIS REPORT

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Part of

Log in Date: 30-APR-92
Job No.: 80138-17
P.O.No.: d1-0087/19026
Tel No.: (703) 557-2490

Media: WATER

Special Instr: CASE 19026; REGION V; SDG#=EQK13;
CONTRACT 68-D1-0087; CASE COMPLETE!

Analyses Requested			Extraction (CLP)		Pesticides/PCB (CLP)					
Lab Number	Sample Description	Air Vol.	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )
967200	EQK30 BNA/P									
967201	EQK30 BNA/P EXTRA									
967202	EQK31 BNA/P									
967203	EQK31 BNA/P EXTRA									
967204	EQK32 BNA/P MS/MSD									
967205	EQK32 BNA/P EXTRA									
967206	EQK32 BNA/P EXTRA									
967207	EQK32 BNA/P EXTRA									
967208	EQK33 BNA/P									
967209	EQK33 BNA/P EXTRA									
967210	S,PBLK									

Comments:				
	Analyst:	M. Manning		
	Date Comp:	05-01-92		
	Q.C.Blank:			
	Q.C.1:			
	Q.C.2:			
	Method:			
	L.O.D.:			

☐ Charged
☐ Approved

080482

615

19026.5

Client: Mr. Johnathan Rude
Sample Management Office
U.S. ENVIRONMENTAL PROTECTION
300 North Lee Street, Ste-200
Alexandria, VA 22314

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LABORATORY ANALYSIS REPORT

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Part of

Log in Date: 30-APR-92
Job No.: 80138-17
P.O.No.: d1-0087/19026
Tel No.: (703) 557-2490

Media: WATER
Special Instr: CASE 19026; REGION V; SDG#=EQK13;
CONTRACT 68-D1-0087; CASE COMPLETE!

Analyses Requested			B/N/A Extraction (CLP)		GC/MS B/N/A (CLP)					
Lab Number	Sample Description	Air Vol.	Units		Units		Units		Units	
			( )	( )	( )	( )	( )	( )	( )	( )
967200	EQK30 BNA/P									
967201	EQK30 BNA/P EXTRA									
967202	EQK31 BNA/P									
967203	EQK31 BNA/P EXTRA									
967204	EQK32 BNA/P MS/MSD									
967205	EQK32 BNA/P EXTRA									
967206	EQK32 BNA/P EXTRA									
967207	EQK32 BNA/P EXTRA									
967208	EQK33 BNA/P									
967209	EQK33 BNA/P EXTRA									
967210	S,FBLK									

Comments:					
	Analyst:	Martin L. Mayberry			
	Date Comp:	05-04-92			
	Q.C.Blank:				
	Q.C.1:				
	Q.C.2:				
	Method:				
	L.O.D.:				

☐ Charged
☐ Approved

080482

619

19026.5

CLAYTON ENVIRONMENTAL CONSULTANTS
AQUEOUS EXTRACTION CONTROL FORM

CLAYTON PROJECT NO. 80138-17
CASE 19026
ANALYSIS Pest
METHOD CLP

SOVENTS USED — LOT #
- [x] Methylene Chloride — BL480
- [x] Acetone — BC078
- [x] Hexane — F04255
- [ ] Other _____ _____

Extraction Date 050192
Analyst H.S.
Samples Taken From Fr#13
Samples Returned To Fr#13
Extract Location: Ref # 16
Tray # 11 SHELF#1

Clayton Project #	Clayton Lab #	Client ID.	Date Extracted	pH	Initial Vol. (ml)	Final Vol. (ml)	Sample Description/Comments
	967200	EQK30	050192	7	1000	10.0	Pale Yellow
	202	EQK31					
	204	EQK32					
	206	EQK 32 MS					
	206	EQK 32 MSD					
	208	EQK 33					Clear, Colorless
	210	PBLKW1					Clear, Colorless

QC Information	Standard Reference #	Amount Added	Concentration	Date	
Surrogate Spike	44449	1.0 mL	200ppb	050192	CLP
Matrix Spike	44448	1.0 mL	0.5/1.0 ppm	050192	CLP

Sample Cleanup Information
- [ ] GPC
- [ ] Alumina
- [ ] Florisil
- [ ] Silica Gel
- [ ] Acid Base Partition
- [ ] Other (specify) _____

MFM 5-1-92

19026.5

CLAYTON ENVIRONMENTAL CONSULTANTS
AQUEOUS EXTRACTION CONTROL FORM

CLAYTON PROJECT NO. 80138-17
CASE: 19026
ANALYSIS Semivolatile
METHOD Clp

SOVENTS USED — LOT #
- [x] Methylene Chloride — ~~BC480~~ 668 H.P. 050592
- [ ] Acetone
- [ ] Hexane
- [ ] Other

Extraction Date 05-04-92
Analyst BW
Samples Taken From RA at 11:00
Samples Returned To RA at 13:00
Extract Location: Ref # 16, Tray # 10

Clayton Project #	Clayton Lab #	Client ID.	Date Extracted	pH	Initial Vol. (ml)	Final Vol. (ml)	Sample Description/Comments
	967201	EQK 30	050492		1000	1.0	
	967203	EQK 31	↓		↓	↓	
	967205	EQK 32					
	967207	EQK 32 MS					
	967207	EQK 32 MSD					
	967209	EQK 33					
	967210	SBLKW1	↓		↓	↓	

QC Information	Standard Reference #	Amount Added	Concentration	Date	
Surrogate Spike	44736	0.5 ML	100/150 ppm	~~04~~ 05-04-92 BW	BNA Surrogate
Matrix Spike	44363	0.5 ML	100/150 ppm	05-04-92 BW	BNA matrix spike

Sample Cleanup Information
- [ ] GPC
- [ ] Alumina
- [ ] Florisil
- [ ] Silica Gel
- [ ] Acid Base Partition
- [ ] Other (specify)

H.P. 050592

19026-5

8-8

DATE: 4/23/92

ANALYSIS: VOA

INSTRUMENT ID #: 5 12

CASE # : (EPA ONLY) #18050

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
GC/MS ANALYST AND INSTRUMENT LOG

SAMPLES REMOVED FROM:

SAMPLES RETURNED TO:

ABBREVIATIONS

P = PASS	F = FAIL
IS = INTERNAL STANDARD	POS = POSITION
RR = RERUN	CRN = CARTRIDGE NUMBER
OP = OPERATOR	PRG = PURGE DATE
DF = DILUTION FACTOR	ARCV = ARCHIVE
SS = SURROGATE STANDARD	METH = METHOD

P/F	CLAYTON LAB NO.	POS	FILE	CRN	CLAYTON PROJECT NUMBER	DESCRIPTION	IS/ SS	OP	METH	LAB ARCV	EPA ARCV	PRG	ANALYST'S NOTES/COMMENTS
P		8	E9537	D2		50 ng BFB 1ul 23531		TF	BFBMB5	228B	96B		10:24 28+29+30 -25
P		8	E9538	D2		1ul 32790 VSTD050 5ul 44724, 44728	44731 44733	TF	CAPMS	"			* *
F	4/23/92	8	E9539	D2		" " " "	"	"	"	"		7-30	NO PP spiked in
F		8	E9540	D2		1ul 32790 VSTD010 5ul 44726, 44730	"	"	"	"	96B		SS=10 * @ 04-23-92
P		8	E9541	D2		2ul 32790 VSTD020 5ul 44725, 44729	"	"	"	"			SS=20 * *
P		8	E9542	D2		10ul 32790 VSTD100 5ul 44723, 44729	"	"	"	"			SS=100 * *
P		8	E9543	D2		20 ul 32790 VSTD200 5ul 44722, 44721	"	"	"	"			SS=200 * *
F		8	E9544	D2		1ul 32790 VSTD500 12.5ul 44722, 44721	"	"	"	"			SS=500 RR * @ 04-23-92
P		8	E9545	"		1ul 32790 VSTD010 5ul, 44726, 44730	"	@	"	"			SS=10 * *
P		8	E9546	"		VBLKEB 5 g	"	@	"	"			
F	964213	8	E9547	"		Case 18050 DBT62 5g	"	@	"	"			↓ IS RR
P	964215	8	E9548	"		" DBT64 5g	"	"	"	"			
P	964213	8	E9549	"		" DBT62 5g	"	@	"	228B			
P	964216	8	E9550	"		" DBT65 5g	"	@	"	"	96B		
		8	E9551	"		~~VSTD05~~ VSTD500 12.5ul 44722 32790	"	@	"	"			SS=500
						@ 04-23-92							

ADDITIONAL NOTES AND COMMENTS

* denotes new NCS curve * denotes new PPS curve.

Q cal, 1E9538, NCS1D5

619

ANALYST SIGNATURE: Alan S. Cole

DATE: 4-23-92

REVIEWED BY: T Outhouse

DATE: 05-19-92

10/17/89

190268.5

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
GC/MS ANALYST AND INSTRUMENT LOG

DATE: 4-27-92 to 4-28-92

ANALYSIS: VOA

INSTRUMENT ID #: HP-56

CASE #: (EPA ONLY)

SAMPLES REMOVED FROM:

SAMPLES RETURNED TO:

ABBREVIATIONS

P = PASS
IS = INTERNAL STANDARD
RR = RERUN
OP = OPERATOR
DF = DILUTION FACTOR
SS = SURROGATE STANDARD
F = FAIL
POS = POSITION
CRN = CARTRIDGE NUMBER
PRG = PURGE DATE
ARCV = ARCHIVE
METH = METHOD

P/F	CLAYTON LAB NO.	POS	FILE	CRN	CLAYTON PROJECT NUMBER	DESCRIPTION	IS/ SS	OP	METH	LAB ARCV	EPA ARCV	PRG	ANALYST'S NOTES/COMMENTS
P			E9628	D2		50ng RFB 1uL, 23531			BFBMES	2298	168		
F		1	E9629	D2		VSTD050 5uL 44724 44728 32790	44731 44733		CAPMES	"			Scans 30+31 +32-27 @ 16:41 ↑ Toluene
P		1	E9630	"		" " " "	"	"	"	"			SS=50 * #
P		1	E9631	D3/D4		VSTD010 44726 44730 1uL, 32790	"		"	"			SS=10 * #
P		2	E9632	"		VSTD020 44729 44725 2uL, 32790	"	"	"	"			SS=20 * #
P		3	E9633	"		VSTD100 44723 44727 10uL 32790	"		"	"			SS=100 * #
P		4	E9634	"		VSTD200 44722 44721 20uL 32790	"	"	"	"			SS=200 * #
P		4	E9635	"		VSTD500 44722 44721 50uL 32790	"		"	"			SS=500 #

ADDITIONAL NOTES AND COMMENTS

* New CAPID5 curve

\# New PPVID5 curve

620

ANALYST SIGNATURE: Sigila Weaver

DATE: 4/28/92

REVIEWED BY: T. Cuthbert

DATE: 05-26-92

10/17/89

190028.5

DATE: 5/5/92

ANALYSIS: VOA

INSTRUMENT ID #: HP-5E

CASE #: (EPA ONLY) #19026

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
GC/MS ANALYST AND INSTRUMENT LOG

SAMPLES REMOVED FROM:

SAMPLES RETURNED TO:

ABBREVIATIONS

P = PASS
IS = INTERNAL STANDARD
RR = RERUN
OP = OPERATOR
DF = DILUTION FACTOR
SS = SURROGATE STANDARD
F = FAIL
POS = POSITION
CRN = CARTRIDGE NUMBER
PRG = PURGE DATE
ARCV = ARCHIVE
METH = METHOD

P/F	CLAYTON LAB NO.	POS	FILE	CRN	CLAYTON PROJECT NUMBER	DESCRIPTION	IS/ SS	OP	METH	LAB ARCV	EPA ARCV	PRG	ANALYST'S NOTES/COMMENTS
P		1	E9739	D1		50 ng BFB 1 µL 23531		GW	BFBMES	231 B	97B		Scans 28 + 29 + 30 - 25 @ 8:55
F		1	E9740	D1		VSTD050 2.5µl 44729 44727 5.0µl 32790	44733 44738	GW	CAPMES	"	97B		
F		1	E9741	D1		" " " " "	"	GW	"	"			
P		1	E9742	D1		" " " " "	"	GW	"	"			
F		1	E9743	D1		VBLKEA 5mL	"	GW	"	"			high dR Toluene
P		1	E9744	D1		" "	"	"	"	"			
F	967188	1	E9745	01/02	B0138-17	Case 19026 EQK30 5mL	"	"	"	"			
F	967190	2	E9746	"	"	" " EQK31 "	"	"	"	"			
P	967192	3	E9747	"	"	" " EQK32 "	"	"	"	"			
P	967192	4	E9748	"	"	" " EQK32ms "	"	"	"	"			MS = 50 44732
P	~~967192~~ ~~967193~~	5	E9749	"	"	" " EQK32msd "	"	"	"	"			MSD = 50 "
P	967196	6	E9750	"	"	" " EQK33 "	"	"	"	"	97B		
F	967198	7	E9751	"	"	" " EQK34 "	"	"	"	"			Failed
F	967188	1	E9752	"	"	" " EQK30 "	"	"	"	"			

ADDITIONAL NOTES AND COMMENTS

621

ANALYST SIGNATURE: Alan B. Colta

DATE: 5-5-92

REVIEWED BY: T. Outhouse

DATE: 06-01-92

10/17/89

19026.5

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
GC/MS ANALYST AND INSTRUMENT LOG

DATE: 5-5-92 to 5-6-92

ANALYSIS: VOA

INSTRUMENT ID #: HP-5 E

CASE #: (EPA ONLY)

SAMPLES REMOVED FROM:

SAMPLES RETURNED TO:

ABBREVIATIONS

P = PASS
IS = INTERNAL STANDARD
RR = RERUN
OP = OPERATOR
DF = DILUTION FACTOR
SS = SURROGATE STANDARD
F = FAIL
POS = POSITION
CRN = CARTRIDGE NUMBER
PRG = PURGE DATE
ARCV = ARCHIVE
METH = METHOD

P/F	CLAYTON LAB NO.	POS	FILE	CRN	CLAYTON PROJECT NUMBER	DESCRIPTION	IS/ SS	OP	METH	LAB ARCV	EPA ARCV	PRG	ANALYST'S NOTES/COMMENTS
		1	E9753			50 ng BFB 1uL, 23531		Q	BFBMES	231B	97B		Scans 29+30+31 - 26@17:27
			E9754			VSTD050 2.5uL 44723 44727	44723 44738	Q	CAPMES	"			4 Compounds out
			E9755			" "	"	"	"	"			Not Close
			E1756			" "	"	"	"				
			E9757			" "	"	"	"				↑↑ Bromofm Lowered purge flow. ↑ Bromofm
P		1	E9758	DI		50 ng BFB 1uL, 23531	"	Q	BFBMES	231B			lowered purge flow a bit more. 27+28+29-24 23:38
P		1	E9759	DI		VSTD050 2.5µl 44723 44727 5.0µl 32790	"	GW	CAPMES	231B	✓		Ocal CAPID5
F		1	E9760	DI		VBLKEB 5mL	"	GW	"	"	97B		↑↑ SS
P		1	E9761	DI		" "	"	GW	"	"			
F	967188	1	E9762	DI	80138-17	CASE 19026 EQK 30 5ml	"	GW	"	"			↑↑ SS
F	967198	2	E9763	DI	"	" " EQK34 5ml	"	GW	"	"			"
F	967188	2	E9764	DI	"	" " EQK30 5mL	"	GW	"	"			"
F	967198	2	E9765	DI	"	" " EQK34 5mL	"	GW	"	"			"
F	967198	2	E9766	DI	"	" " " "	"	GW	"	"			"
P	967199	2	E9767	DI	"	" " " "	"	TF	"	"			
F	967188	2	E9768	DI	"	" " EQK30	"	"	"	"			low DQ Tolueno

ADDITIONAL NOTES AND COMMENTS

P 967188 2 E9769 DI " " " " " " " " " "

622

ANALYST SIGNATURE: Allen S. Colts

DATE: 05-06-92

REVIEWED BY: T. Outhouse

DATE: 06-01-92

10/17/89

19028.5

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
GC/MS ANALYST AND INSTRUMENT LOG

DATE: 05-06-92

ANALYSIS: VOA

INSTRUMENT ID #: HP-5E

CASE #: (EPA ONLY) #19026

SAMPLES REMOVED FROM:

SAMPLES RETURNED TO:

ABBREVIATIONS

P = PASS
IS = INTERNAL STANDARD
RR = RERUN
OP = OPERATOR
DF = DILUTION FACTOR
SS = SURROGATE STANDARD
F = FAIL
POS = POSITION
CRN = CARTRIDGE NUMBER
PRG = PURGE DATE
ARCV = ARCHIVE
METH = METHOD

P/F	CLAYTON LAB NO.	POS	FILE	CRN	CLAYTON PROJECT NUMBER	DESCRIPTION	IS/ SS	OP	METH	LAB ARCV	EPA ARCV	PRG	ANALYST'S NOTES/COMMENTS
P			E9770	D1		50ng BFB 1-L 2357		Ⓓ	BFBMB	231B	97B		Scans 27+28+29-28 @ 15:15.
F			E9771	DF/18		VSTD050 5uL 44751 44747 32790	44745 44743	"	CAPMES	"			would've passed, but close 187% ↑
P			E9772	"		" "	"	"	"	"	97B		QCal, ↑ E9772, NC5105
F			E9773	"		VBLKEA 4/5	"	Ⓓ	"	"			low last IS causing 2 ↑ SS.
F			E9774	"		" "	"	"	"	"			↑ first 2 S
P			E9775	"		" "	"	"	"	"	97B		
F	967182		E9776	"		Case 19026 EQK17 5g	"	Ⓓ	CAPMES	"			
P	967180		E9777	D1		" EQK16 5g	"	Ⓓ	"	"	97B		
F	967186		E9778	"		" EQK19 5g	"	Ⓓ	"	"			
F	967182		E9779	"		" EQK17 5g	"	" Gw	"	"			
P	967174		E9780	"		" EQK13 5g	"	Gw	"	"			
F	967182		E9781	"		" EQK17 5g	"	Gw	"	"			
F	967176		E9782	"		" EQK14 5g	"	Gw	"	"			

ADDITIONAL NOTES AND COMMENTS

633

ANALYST SIGNATURE: Hyelen A. Weaver

DATE: 5-7-92

REVIEWED BY: T. Outhouse

DATE: 06-01-92

10/17/89

19026.5

DATE: 05-07-92

ANALYSIS: VOA

INSTRUMENT ID #: HP-SE

CASE #: (EPA ONLY) #19026

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
GC/MS ANALYST AND INSTRUMENT LOG

SAMPLES REMOVED FROM:

SAMPLES RETURNED TO:

ABBREVIATIONS

P = PASS
IS = INTERNAL STANDARD
RR = RERUN
OP = OPERATOR
DF = DILUTION FACTOR
SS = SURROGATE STANDARD
F = FAIL
POS = POSITION
CRN = CARTRIDGE NUMBER
PRG = PURGE DATE
ARCV = ARCHIVE
METH = METHOD

P/F	CLAYTON LAB NO.	POS	FILE	CRN	CLAYTON PROJECT NUMBER	DESCRIPTION	IS/ SS	OP	METH	LAB ARCV	EPA ARCV	PRG	ANALYST'S NOTES/COMMENTS
P		8	E9790	09		50 ng BFB Int 23531		TF	BFBmes	231B			11:48 28+29+30 ~25
P		8	E9791	09		NSTD=50 5ul 44751 44747 32790	44745 44743	TF	CAPOS	"			OCAI, NCSID 5
P		8	E9792	09		Case 19026 VBLKEB 5 9 4/5	"	"	"	"			
P	967176	8	E9793	01	B0138-17	Case 19026 EQK14 5g	"	"	"	231B			
P	967176	8	E9794	01	"	" " EQK14 MS "	"	"	"	"			MS=50 44744
P	967176	8	E9795	01	"	" " " MSD "	"	"	"	"			"
P	967178	8	E9796	"	"	" " EQK15 5g	"	"	"	"			
P	967182	8	E9797	"	"	" " EQK17 5g	"	"	"	"			
P	967184	8	E9798	"	"	" " EQK18 5g	"	"	"	"			
P	967186	8	E9799	"	"	" " EQK19 5g	"	"	"	"			

ADDITIONAL NOTES AND COMMENTS

624

ANALYST SIGNATURE: Allan A. Cotti

DATE: 05-07-92

REVIEWED BY: T. Outhouse

DATE: 06-01-92

10/17/89

18029.5

Client: Mr. Johnathan Rude
Sample Management Office
U.S. ENVIRONMENTAL PROTECTION
300 North Lee Street, Ste-200
Alexandria, VA 22314

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LABORATORY ANALYSIS REPORT

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Log in Date: 30-APR-92
Job No.: 80138-17
P.O.No.: d1-0087/19026
Tel No.: (703) 557-2490

Media: SOIL

Special Instr: CASE 19026; REGION V; SDG#=EQK13; RD04-20-92
CONTRACT 68-D1-0087; CASE COMPLETE!

Analyses Requested			GC/MS VOA (CLP)							
Lab Number	Sample Description	Air Vol.	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )
967174	QK EQ13 VOA X									
967175	QK EQ13 VOA EXTRA									
967176	QK EQ14 VOA MS/MSD X X X									
967177	QK EQ14 VOA EXTRA									
967178	QK EQ15 VOA X									
967179	QK EQ15 VOA EXTRA									
967180	QK EQ16 VOA X									
967181	QK EQ16 VOA EXTRA									
967182	QK EQ17 VOA X									
967183	QK EQ17 VOA EXTRA									
967184	QK EQ18 VOA X									
967185	QK EQ18 VOA EXTRA									

RD 04-30-92

Comments:	Analyst:	
	Date Comp:	05-07-92
	Q.C.Blank:	
	Q.C.1:	
	Q.C.2:	
	Method:	
	L.O.D.:	

☐ Charged
☐ Approved

080482

19026.5

Client: Mr. Johnathan Rude
Sample Management Office
U.S. ENVIRONMENTAL PROTECTION
300 North Lee Street, Ste-200
Alexandria, VA 22314

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LABORATORY ANALYSIS REPORT

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Log in Date: 30-APR-92

Media: SOIL

Job No.: 80138-17

Special Instr: CASE 19026; REGION V; SDG#=EQK30; 13 RD01 30 92

P.O. No.: d1-0087/19026

CONTRACT 68-D1-0087; CASE COMPLETE!

Tel No.: (703) 557-2490

Analyses Requested			GC/MS VOA (CLP)							
Lab Number	Sample Description	Air Vol.	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )
967186	EKQ19 VOA									
967187	EKQ19 VOA EXTRA									

Comments:					
	Analyst:	Fully			
	Date Comp:	05-07-92			
	Q.C.Blank:				
	Q.C.1:				
	Q.C.2:				
	Method:				
	L.O.D.:				

☐ Charged
☐ Approved

080482

19026.5

929

Client: Mr. Johnathan Rude
Sample Management Office
U.S. ENVIRONMENTAL PROTECTION
300 North Lee Street, Ste-200
Alexandria, VA 22314

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LABORATORY ANALYSIS REPORT

D1/D2

Page of
Part of

Log-in-Date: 30-APR-92

Media: WATER

Job No.: 80138-17

Special Instr: CASE 19026; REGION V; SDG#=EQK13;
CONTRACT 68-D1-0087; CASE COMPLETE!

P.O.No.: d1-0087/19026

Tel No.: (703) 557-2490

Analyses Requested			GC/MS VOA -(CLP)							
Lab Number	Sample Description	Air Vol.	Units		Units		Units		Units	
			( )	( )	( )	( )	( )	( )	( )	( )
967188	EQK30 VOA X									
967189	EQK30 VOA EXTRA									
967190	EQK31 VOA X									
967191	EQK31 VOA EXTRA									
967192	EQK32 VOA MS/MSD X X X									
967193	EQK32 VOA EXTRA									
967194	EQK32 VOA EXTRA									
967195	EQK32 VOA EXTRA									
967196	EQK33 VOA X									
967197	EQK33 VOA EXTRA									
967198	EQK34 VOA X									
967199	EQK34 VOA EXTRA									

Comments:				
	Analyst:	T. Ruth		
	Date Comp:	05-07-92		
	Q.C.Blank:			
	Q.C.1:			
	Q.C.2:			
	Method:			
	L.O.D.:			

☐ Charged
☐ Approved

080482

627

19026.5

Client: Mr. Johnathan Rude
Sample Management Office
U.S. ENVIRONMENTAL PROTECTION
300 North Lee Street, Ste-200
Alexandria, VA 22314

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LABORATORY ANALYSIS REPORT

Page of
Part of

Log in Date: 30-APR-92
Job No.: 80138-17
P.O.No.: d1-0087/19026
Tel No.: (703) 557-2490

Media: WATER

Special Instr: CASE 19026; REGION V; SDG#=EQK13;
CONTRACT 68-D1-0087; CASE COMPLETE!

Analyses Requested			GC/MS VOA (CLP)							
Lab Number	Sample Description	Air Vol.	Units		Units		Units		Units	
			( )	( )	( )	( )	( )	( )	( )	( )
967243	EQK32 VOA EXTRA									
967244	EQK32 VOA EXTRA									

Comments:					
	Analyst:	T. Fuly			
	Date Comp:	05-07-92			
	Q.C.Blank:				
	Q.C.1:				
	Q.C.2:				
	Method:				
	L.O.D.:				

☐ Charged
☐ Approved

080482

628

19028.5

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
GC/MS ANALYST AND INSTRUMENT LOG

DATE: 5-18-92

ANALYSIS: BNA

INSTRUMENT ID #: 6F

CASE #: (EPA ONLY) #18050

SAMPLES REMOVED FROM:

SAMPLES RETURNED TO:

ABBREVIATIONS

P = PASS	F = FAIL
IS = INTERNAL STANDARD	POS = POSITION
RR = RERUN	CRN = CARTRIDGE NUMBER
OP = OPERATOR	PRG = PURGE DATE
DF = DILUTION FACTOR	ARCV = ARCHIVE
SS = SURROGATE STANDARD	METH = METHOD

P/F	CLAYTON LAB NO.	POS	FILE	CRN	CLAYTON PROJECT NUMBER	DESCRIPTION	IS/ SS	OP	METH	LAB ARCV	EPA ARCV	PRG	ANALYST'S NOTES/COMMENTS
			MTBWK			Manual tune width/mass		TF	Mscal				clipped column changed plate, liner, septa
P		1	F7461	04		50ng DFTPP 2ul 44458 (1:2) ~~2ul 44458 (1:2)~~	TP 5/18/92	TF	DFTPPL	2358	9B		12:13 345+346+347 -341
P		1	F7462	04/09		SSTD050 150ul 44682, 44687 44688	44502 (1:2)	TF	BNAMBL	~~2358~~	TF 5/18/92		*
P		2	F7463	"		SSTD050 100ul 44685 200ul MeCl2	"	"	"	2360			* NCBID6
P		3	F7464	"		SSTD080 150ul 44681, 44676	"	"	"	"			*
P		4	F7465	"		SSTD120 150ul 44679, 44684	"	"	"	"			*
P		5	F7466	"		SSTD160 150ul 44678, 44683	"	"	"	"			* Baked column 1hr
P		1	F7467	08		60ng DFTPP 2ul 44458 (1:2)		DS	DFTPPL	"			Scans 341+342+343-337 19:25
P		1	F7468	09		SSTD050 100ul (44680 44685) 200ul MeCl2	44502 (1:2)	"	BNAMBL	"			~~Scans~~ RJ 5/18/92 QCAL, ^ F7468, NCBID6
F	964223	1	F7469	09/04	7789-17	Case 18050 DBT58 MSD	"	"	"	"		5/21	Acid SS ↓
P	964230	2	F7470	"	"	" " DBT66	"	"	"	"			
F	964231	3	F7471	"	"	" " DBT67	"	"	"	"			RR - 1:5
P	964232	4	F7472	"	"	" " DBT69	"	"	"	"			
P	964233	5	F7473	06/09	"	" " DBT71	"	"	"	"			Run terminated early 38 min
F	964225	6	F7474	"	"	" " DBT60DL (1:2)	"	"	"	"			" " " 33 min
P	964226	7	F7475	"	"	" " DBT62DL (1:5)	"	"	"	"			

ADDITIONAL NOTES AND COMMENTS

P 964225 6 F7476 01 " " " DBT 60 (1:2) " GW " "

ANALYST SIGNATURE: Gerald Shindelbeck

DATE: 5/18/92

REVIEWED BY: T. Fields

DATE: 5/21/92

10/17/89

629

19028.5

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
GC/MS ANALYST AND INSTRUMENT LOG

DATE: 5-22-92

ANALYSIS: BNA

INSTRUMENT ID #: HP-6F

CASE #: (EPA ONLY) #19005, 19026

SAMPLES REMOVED FROM:

SAMPLES RETURNED TO:

ABBREVIATIONS

P = PASS
IS = INTERNAL STANDARD
RR = RERUN
OP = OPERATOR
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SS = SURROGATE STANDARD
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POS = POSITION
CRN = CARTRIDGE NUMBER
PRG = PURGE DATE
ARCV = ARCHIVE
METH = METHOD

P/F	CLAYTON LAB NO.	POS	FILE	CRN	CLAYTON PROJECT NUMBER	DESCRIPTION	IS/ SS	OP	METH	LAB ARCV	EPA ARCV	PRG	ANALYST'S NOTES/COMMENTS Changed septa
P		1	F7525	DF		50 ng DFTPP 2uL 44458 (1:2)		GW	DFTPP6	236B			Scans 340 + 341 + 342 - 337 @ 00:10
P		1	F7526	DF		35TD050 100µl 44680 44685 200ul MeCl2	44502 (1:2)	GW	BNMEG6	"			100AL NCB1D's
F		1	F7527	DF/DG	80118-17	PRC SBLK10506		GW					Perylene-d12 ↓↓
F	966704	2	F7528		80022-17	CASE 19005 SBLK51		GW					"
P	966699	3	F7529			EMS69		GW					
P	966700	4	F7530			EMS70		GW		23 78			
P	966701	5	F7531			EMS71		GW					
P	966702	6	F7532			EMS72		GW					
F	966702	7	F7533			EMS72 MS		GW					Run terminated 32 min
P	966702	8	F7534			EMS72 MSD		GW					
F	966703	9	F7535			EMS73		GW					All low SS
P	967201	10	F7536		80138-17	CASE 19026 EQK30		GW					
P	967203	11	F7537			EQK31		GW					
P	967205	12	F7538			EQK32		GW					
P	967207	13	F7539			EQK32 MS		GW					
F	967207	14	F7540			EQK32 MSD		GW					DID NOT RUN

ADDITIONAL NOTES AND COMMENTS

ANALYST SIGNATURE: Kyla A. Weaver

DATE: 05-22-92

REVIEWED BY: T. Outhouse

DATE: 06-01-92

10/17/89

630

19028.5

082

DATE: 5/22/92

ANALYSIS: BNA

INSTRUMENT ID #: 6F

CASE #: (EPA ONLY) #19005, 19026

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
GC/MS ANALYST AND INSTRUMENT LOG

SAMPLES REMOVED FROM:

SAMPLES RETURNED TO:

ABBREVIATIONS

P = PASS
IS = INTERNAL STANDARD
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F = FAIL
POS = POSITION
CRN = CARTRIDGE NUMBER
PRG = PURGE DATE
ARCV = ARCHIVE
METH = METHOD

P/F	CLAYTON LAB NO.	POS	FILE	CRN	CLAYTON PROJECT NUMBER	DESCRIPTION	IS/ SS	OP	METH	LAB ARCV	EPA ARCV	PRG	ANALYST'S NOTES/COMMENTS
P		1	F7541	08		50 ng DFTPP 2nd 5/22/92 Fail 44448(1:2)		PS	DFTPP6	237B			changed time, sep. scans 35+336+337-331 17:19
P		1	F7542	"		SSTD050 10ng (44680 44665) 200ng MeOH 44502 (1:2)	"		BNA7	"			
P		1	F7543	"		" " " "	"	"	"	"			QCAL, ^ F7543 NCBID6
P		1	F7544	"		PRC SBLK40506	"	"	"	"			
F		2	F7545	"		BLK20521	"	"	"	"			
P	967074	3	F7546	"		PRC BAS-6W-005 S-046785	"	"	"	"			
F	967210	4	F7547	"		Case 19026 SBLKW1	"	"	"	"			
P	967207	5	F7548	"		" " EQK32MSD	"	"	"	"			
F	966704	6	F7549	"		case 19005 SBLKS1	"	"	"	"			
P	966702	7	F7550	"		" " EMS72MS	"	"	"	"			
F	966703	8	F7551	"		" " EMS73	"	"	"	"			Bad inj. ??

ADDITIONAL NOTES AND COMMENTS: Baked Column 1 1/2 hrs

ANALYST SIGNATURE: Kaylee Weaver

DATE: 05-23-92

REVIEWED BY: T. Outhouse

DATE: 06-01-92

10/17/89

19026.5

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
GC/MS ANALYST AND INSTRUMENT LOG

DATE: 5-27-92

ANALYSIS: BNA

INSTRUMENT ID #: HP-6F

CASE #: (EPA ONLY) #19005, 19026, 18191

SAMPLES REMOVED FROM:

SAMPLES RETURNED TO:

ABBREVIATIONS

P = PASS
IS = INTERNAL STANDARD
RR = RERUN
OP = OPERATOR
DF = DILUTION FACTOR
SS = SURROGATE STANDARD
F = FAIL
POS = POSITION
CRN = CARTRIDGE NUMBER
PRG = PURGE DATE
ARCV = ARCHIVE
METH = METHOD

P/F	CLAYTON LAB NO.	POS	FILE	CRN	CLAYTON PROJECT NUMBER	DESCRIPTION	IS/ SS	OP	METH	LAB ARCV	EPA ARCV	PRG	ANALYST'S NOTES/COMMENTS (broken column / hour / changed septa)
P		1	F7558	D8		50ng DFTPP 2µl 44458 (1:2)		GW	DFTPP6	2378			Scans 338 + 339 + 340 - 334 @ 2:33
P		1	F7559	D8		SSTD050 100µl 44680 44685 200µl 44502	44502 (1:2)	GW	BNAME6	"			
F		1	F7560	D8/09	80118-17	PRC BLK 20521		GW					
P	967077	2	F7561		↓	PRC BAS-GW-013		GW					
F	966104	3	F7562		80000-17	CASE 19005 SBLKS1		GW					Naphthalene ↓
F	966703	4	F7563		↓	" " EMS 73		GW					
P	967210	5	F7564		80138-17	CASE 19026 SBLKW1		GW					
P	967209	6	F7565		↓	" " EQK 33		GW					
P	TF 5/27/92 972608	7	F7566		80753-17	CASE 18191 SBLKW1		GW					
P	972599	8	F7567			" " ER001		GW					
P	972601	9	F7568			" " ER001MS		GW					
P	972601	10	F7569			" " ER001MSD		GW					
	~~972605~~	11	F7570			GW 5-27 " " ER001T		GW					~~Samples OLD NOT RUN~~ TF 5/27/92
	~~972607~~	~~12~~	~~F7571~~	↓	↓	" " ER078	↓	GW	↓	↓			
F	966704	3	F7570	09	80000-17	Case 19005 SBLKS1	(1:2) 44502	TF	BNAME6	2373			← last I.S.

ADDITIONAL NOTES AND COMMENTS

632

ANALYST SIGNATURE: Gizella A. Weaver

DATE: 05-27-92

REVIEWED BY: T. Outhouse

DATE: 06-01-92

10/17/89

19028.5

Client: Mr. Johnathan Rude
Sample Management Office
U.S. ENVIRONMENTAL PROTECTION
300 North Lee Street, Ste-200
Alexandria, VA 22314

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LABORATORY ANALYSIS REPORT

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Log in Date: 30-APR-92

Job No.: 80138-17

P.O.No.: d1-0087/19026

Tel No.: (703) 557-2490

Media: WATER

Special Instr: CASE 19026; REGION V; SDG#=EQK13;
CONTRACT 68-D1-0087; CASE COMPLETE!

Analyses Requested			B/N/A Extraction (CLP)		GC/MS B/N/A (CLP)					
Lab Number	Sample Description	Air Vol.	Units		Units		Units		Units	
			( )	( )	( )	( )	( )	( )	( )	( )
967200	EQK30 BNA/P									
967201	EQK30 BNA/P EXTRA ✓									
967202	EQK31 BNA/P									
967203	EQK31 BNA/P EXTRA ✓									
967204	EQK32 BNA/P MS/MSD									
967205	EQK32 BNA/P EXTRA ✓									
967206	EQK32 BNA/P EXTRA									
967207	EQK32 BNA/P EXTRA									
967208	EQK33 BNA/P									
967209	EQK33 BNA/P EXTRA ✓									
967210	S,PBLK ✓									

Comments:					
	Analyst:		T. Fuld		
	Date Comp:		05-27-92		
	Q.C.Blank:				
	Q.C.1:				
	Q.C.2:				
	Method:				
	L.O.D.:				

☐ Charged
☐ Approved

080482

633

19026.5

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
PESTICIDES/PCB ANALYST AND INSTRUMENT LOG

DATE: 05-16-92

ANALYST: John LANE

INSTRUMENT ID #: DOB1 & DOB2

CASE # : (EPA ONLY) 19005 & 19026

MATRIX : WATER

SAMPLES REMOVED FROM: FREEZER #16 TRAY #11

SAMPLES RETURNED TO: FREEZER #16 POST ANALYSIS TRAY

RUN TIME SEQUENCE: 05-16-92 TO 05-22-92

COLUMN PACK/CAP: DOB1 DB1701 MEGADORE; DOB2 DB608 MEGADOLE

ABBREVIATIONS

VL = Vial
STK = Stock
DIL = Dilution
TINJ = Time Injected

VL#	FILE #	LAB#	EPA #	STK#	DESCRIPTION	DIL	TINJ	DATE	ANALYST'S NOTES/COMMENTS
1	8A13001 8B13001	PIBLK AA	PIBLK	44442	PIBLK	1	1055	05-16-92	
2	8A13002 8B13002	RESC AA	RESC	44441	RESC	1	1136	05-16-92	
3	8A13003 8B13003	PEM AA	PEM	44762	PEM	1	1217	05-16-92	
4	8A13004 8B13004	AR1260 AA	AR1260	44445	AR1260 0.100 mg/ml	1	1258	05-16-92	
5	8A13005 8B13005	AR1221 AA	AR1221	44443	AR1221 0.200 mg/ml	1	1339	05-16-92	
6	8A13006 8B13006	AR1232 AA	AR1232	44444	AR1232 0.100 mg/ml	1	1421	05-16-92	
7	8A13007 8B13007	AR1242 AA	AR1242	44444	AR1242 0.100 mg/ml	1	1502	05-16-92	
8	8A13008 8B13008	AR1248 AA	AR1248	44460	AR1248 0.100 mg/ml	1	1543	05-16-92	
9	8A13009 8B13009	AR1254 AA	AR1254	44446	AR1254 0.100 mg/ml	1	1624	05-16-92	
10	8A13010 8B13010	TOXAPH AA	TOXAPH	44445	TOXAPH 0.500 mg/ml	1	1706	05-16-92	
11	8A13011 8B13011	INDAL AA	INDAL	44451	INDAL	1	1747	05-16-92	
12	8A13012 8B13012	INDBL AA	INDBL	44457	INDBL	1	1829	05-16-92	
13	8A13013 8B13013	INDAM AA	INDAM	44449	INDAM	1	1910	05-16-92	
14	8A13014 8B13014	INDBM AA	INDBM	44455	INDBM	1	1951	05-16-92	
15	8A13015 8B13015	INDAH AA	INDAH	44447	INDAH	1	2032	05-16-92	
16	8A13016 8B13016	INDBH AA	INDBH	44453	INDBH	1	2113	05-16-92	

ADDITIONAL NOTES AND COMMENTS

ANALYST SIGNATURE: John Lane

DATE: 06-03-92

REVIEWED BY: [signature]

DATE: 06-03-92

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10026.5

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
PESTICIDES/PCB ANALYST AND INSTRUMENT LOG

DATE: 05-16-92

ANALYST: JOHN LANE

INSTRUMENT ID #: D081 & D082

CASE # : (EPA ONLY 19015 & 19026

MATRIX: WATER

SAMPLES REMOVED FROM: FREEZER #16 TRAY #11

SAMPLES RETURNED TO: FREEZER #16 POST ANALYSIS TRAY

RUN TIME SEQUENCE: 05-16-92 TO 05-22-92

COLUMN PACK/CAP: D081 DB1701 MEGABORE; D082 DB608 MEGABORE

ABBREVIATIONS

VL = Vial
STK = Stock
DIL = Dilution
TINJ = Time Injected

VL#	FILE #	LAB#	EPA #	STK#	DESCRIPTION	DIL	TINJ	DATE	ANALYST'S NOTES/COMMENTS
	06-03-92 JL								
17	BA13017 BB13017 ~~PIBLKAB~~	PIBLKAB	PIBLK	44642	PIBLK	1	2154	05-16-92	
18	BA13018 BB13018 ~~PEMAAL~~	PEMAD	PEM	44762	PEM	1	2235	05-16-92	
~~32~~	~~BA13032 BB13032~~	~~PIBLKAC~~	~~PIBLK~~	~~44642~~	~~PIBLK~~	~~1~~	~~0815~~	~~05-17-92~~	
33	BA13033 BB13033	INDAMAB	INDAM	44649	INDAM	1	0854	05-17-92	
34	BA13034 BB13034	INDBMAB	INDBM	44655	INDBM	1	0937	05-17-92	
42	BA13042 BB13042	PIBLKAD	PIBLK	44642	PIBLK	1	1649	05-17-92	
43	BA13043 BB13043	PEMAC	PEM	44762	PEM	1	1730	05-17-92	
57	BA13057 BB13057	PIBLKAE	PIBLK	44642	PIBLK	1	0441	05-18-92	
58	BA13058 BB13058	INDAMAC	INDAM	44649	INDAM	1	0522	05-18-92	
59	BA13059 BB13059	INDBMAC	INDBM	44655	INDBM	1	0603	05-18-92	
75	BA13075 BB13075	PIBLKAF	PIBLK	44642	PIBLK	1	1706	05-18-92	
76	BA13076 BB13076	PEMAD	PEM	44762	PEM	1	1748	05-18-92	
77	BA13077 BB13077	PIBLKAG	PIBLK	44642	PIBLK	1	1811	05-19-92	
~~78~~	~~BA13078 BB13078~~	~~PEMAE~~	~~PEM~~	~~44762~~	~~PEM~~	~~1~~	~~1852~~	~~05-19-92~~	Not used
92	BA13092 BB13092	PIBLKAI							06-03-92 JL
93	BA13093 BB13093	~~PEMAF~~							06-03-92 JL

ADDITIONAL NOTES AND COMMENTS

ANALYST SIGNATURE: John Lane

DATE: 06-03-92

REVIEWED BY: [signature]

DATE: 06-03-92

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19026.5

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
PESTICIDES/PCB ANALYST AND INSTRUMENT LOG

DATE: 05-16-92

ANALYST: JOHN LANE

INSTRUMENT ID #: DOB1 & DOB2

CASE # : (EPA ONLY 19005 & 19026

MATRIX: WATER

SAMPLES REMOVED FROM: FREEZER #16 TRAY #11

SAMPLES RETURNED TO: FREEZER #16 POST ANALYSIS TRAY

RUN TIME SEQUENCE: 05-16-92 TO 05-22-92

COLUMN PACK/CAP: DOB1 DB-1701 MEGABORE. DOB2 DB-608 MEGABORE

ABBREVIATIONS

VL = Vial
STK = Stock
DIL = Dilution
TINJ = Time Injected

VL#	FILE #	LAB#	EPA #	STK#	DESCRIPTION	DIL	TINJ	DATE	ANALYST'S NOTES/COMMENTS
84	8A13084 8B13084	PIBLKAH	PIBLK	44642	PIBLK	1	2302	05-19-92	
85	8A13085 8B13085	INDAMAD	INDAM	44649	INDAM	1	2343	05-19-92	
86	8A13086 8B13086	INDBMAD	INDBM	44655	INDBM	1	0024	05-20-92	WPL 06-03-92 NOT USED
92	8A13092 8B13092	PIBLKAI	PIBLK	44662	PIBLK	1	0358	05-21-92	
93	8A13093 8B13093	PEMAF	PEM	44762	PEM	1	0438	05-21-92	
94	8A13094 8B13094	966274	EMSL4	—	WATER SAMPLE	1	0520	05-21-92	
95	8A13095 8B13095	966276	EMSL5	—	WATER SAMPLE	1	0601	05-21-92	
96	8A13096 8B13096	966280	EMSL6	—	WATER SAMPLE	1	0642	05-21-92	
97	8A13097 8B13097	966281MS	EMSL6MS	—	LAB SPIKED WATER SAMPLE	1	0723	05-21-92	
98	8A13098 8B13098	966281 MSD	EMSL6MSD	—	DUPLICATE LAB SPIKED WATER SAMPLE	1	0805	05-21-92	
99	8A13099 8B13099	966282	EMSL7	-	WATER SAMPLE	1	0846	05-21-92	
100	8A13100 8B13100	966284	PBLKW1	—	WATER SAMPLE	1	0927	05-21-92	
101	8A13101 8B13101	967200	EQL30	—	WATER SAMPLE	1	1008	05-21-92	
102	8A13102 8B13102	967202	EQL31	—	WATER SAMPLE	1	1050	05-21-92	
103	8A13103 8B13103	967204	EQL32	—	WATER SAMPLE	1	1131	05-21-92	
104	8A13104 8B13104	967206MS	EQL32MS	—	LAB SPIKED WATER SAMPLE	1	1212	05-21-92	

ADDITIONAL NOTES AND COMMENTS

ANALYST SIGNATURE: John Lane

DATE: 06-03-92

REVIEWED BY: William R. Schmidt

DATE: 06-03-92

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19026.5

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.
PESTICIDES/PCB ANALYST AND INSTRUMENT LOG

DATE: 05-16-92

ANALYST: John Lane

INSTRUMENT ID #: D081 + D082

CASE # : (EPA ONLY: 19005 + 19026

MATRIX: WATER

SAMPLES REMOVED FROM: FREEZER #16 TRAY #11

SAMPLES RETURNED TO: FREEZER #16 POST ANALYSIS TRAY

RUN TIME SEQUENCE: 05-16-92 TO 05-22-92

COLUMN PACK/CAP: D081 DB-608 MEGABORE
D082 DB-608 MEGABORE

ABBREVIATIONS

VL = Vial
STK = Stock
DIL = Dilution
TINJ = Time Injected

VL#	FILE #	LAB#	EPA #	STK#	DESCRIPTION	DIL	TINJ	DATE	ANALYST'S NOTES/COMMENTS
105	8A13105 8B13105	967202 MSD	EQK32 MSD	—	LAB SPIKED WATER SAMPLE	1	1254	05-21-92	
107	8A13107 8B13107	PIBLKAJ	PIBLK	44442	PIBLK	1	1416	05-21-92	
108	8A13108 8B13108	INDAMAE	INDAM	44449	INDAM	1	1457	05-21-92	
109	8A13109 8B13109	INDBMAE	INDBM	44655	INDBM	1	1538	05-21-92	
110	8A13110 8B13110	967208	EQK33	—	WATER SAMPLE	1	1619	05-21-92	
111	8A13111 8B13111	967210	PBLKW1	—	WATER SAMPLE	1	1700	05-21-92	
122	8A13122 8B13122	PIBLKAK	PIBLK	44442	PIBLK	1	0034	05-22-92	
123	8A13123 8B13123	PEMAG	PEM	44762	PEM	1	0115	05-22-92	

ADDITIONAL NOTES AND COMMENTS

ANALYST SIGNATURE: John Lane

DATE: 06-03-92

REVIEWED BY: William R. Sinnak

DATE: 06-03-92

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4 8 2 6 . 5

Client: Mr. Johnathan Rude
Sample Management Office
U.S. ENVIRONMENTAL PROTECTION
300 North Lee Street, Ste-200
Alexandria, VA 22314

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

LABORATORY ANALYSIS REPORT

Page of
Part of

Log in Date: 30-APR-92

Media: WATER

Job No.: 80138-17

Special Instr.: CASE 19026; REGION V; SDG#=EQK13;
CONTRACT 68-D1-0087; CASE COMPLETE!

P.O.No.: d1-0087/19026

Tel No.: (703) 557-2490

Analyses Requested			Extraction (CLP)		Pesticides/PCB (CLP)					
Lab Number	Sample Description	Air Vol.	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )	Units ( )
967200	EQK30 BNA/P									
967201	EQK30 BNA/P EXTRA									
967202	EQK31 BNA/P									
967203	EQK31 BNA/P EXTRA									
967204	EQK32 BNA/P MS/MSD									
967205	EQK32 BNA/P EXTRA									
967206	EQK32 BNA/P EXTRA									
967207	EQK32 BNA/P EXTRA									
967208	EQK33 BNA/P									
967209	EQK33 BNA/P EXTRA									
967210	S,PBLK									

Comments:				
	Analyst:		John Lane	[illegible]
	Date Comp:		06-03-92	06-03-92
	Q.C.Blank:			
	Q.C.1:			
	Q.C.2:			
	Method:			
	L.O.D.:			

☐ Charged
☐ Approved

080482

638

19026.5

19026 · 5

John [illegible] 06-02-92
D081 PB1701 MEGABORE
D082 DBL08 MEGABORE

CASE # 19026

Sequence File : C:\USERS\EPA\8\EPA813.seq
Created by : on : 5/16/92 09:58
Edited by : on : 6/2/92 02:51
Number Of Times Edited : 85

Sequence File Header Information:

Study Name : 05/16/92 10:55
Segment Interface : YES
Number of Cycles : 130
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Sequence Sample Descriptions

Cycle	Sample Name	Sample Number	Site	Rack	Vial	Sample Amount	ISTD Amount	Inj. Volume	Dil. Factor	Mult	Divisor	Addend	Inst File	Output Device
1	PIBLKAA			A	1	1	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
2	RESCAA			A	1	2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
3	PEMAA			A	1	3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
4	AR1660AA			A	1	4	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
5	AR1221AA			A	1	5	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
6	AR1232AA			A	1	6	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
7	AR1242AA			A	1	7	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
8	AR1248AA			A	1	8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
9	AR1254AA			A	1	9	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
10	TOXAPHAA			A	1	10	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
11	INDALAA			A	1	11	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
12	INDBLAA			A	1	12	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
13	INDAMAA			A	1	13	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
14	INDBMAA			A	1	14	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
15	INDAHAA			A	1	15	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
16	INDBHAA			A	1	16	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
17	PIBLKAB			A	1	17	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
18	PEMAB			A	1	18	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
19	964200	PBLKW1		A	1	19	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
20	964197	DBT53		A	1	20	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
21	964198	DBT54		A	1	21	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
22	964199	DBT59		A	1	22	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
23	964199MS	DBT59MS		A	1	23	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
24	964199MSD	DBT59MSD		A	1	24	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
25	964201	DBT61		A	1	25	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
26	964202	DBT68		A	1	26	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
27	964203	DBT70		A	1	27	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
28	964204	DBT72		A	1	28	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
29	964205	DBT73		A	1	29	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
30	964206	DBT74		A	1	30	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
31	964207	DBT75		A	1	31	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1 NOT USED WL 06-03-92
32	PIBLKAC			A	1	32	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
33	INDAMAB			A	1	33	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
34	INDBMAB			A	1	34	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1 NOT USED 06-03-92
35	964198A	DBT54 2DL		A	1	35	1.000	1.000	1.000	2.000	1.000	1.000	0.000	EPA8B	LPT1
36	ZZZZZ			A	1	36	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
37	964221	DBT56		A	1	37	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
38	964222	DBT57		A	1	38	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
39	964223	DBT58		A	1	39	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
40	964224MS	DBT58MS		A	1	40	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1
41	964224MSD	DBT58MSD		A	1	41	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1 NOT USED 06-03-92

19026.5

Joshua Jones
DOB 1 PDB701 MECHANICAL
DOB2 DBLCB MECHANICAL
CASE # 19026

42	PIBLKAD		A	1	42	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	06-12-92
43	PEMAC		A	1	43	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	NOT USED
44	964225A	DBT60 10DL	A	1	44	1.000	1.000	1.000	10.000	1.000	1.000	0.000	EPA8B	LPT1	
45	964225	DBT60	A	1	45	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
46	ZZZZZ		A	1	46	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
47	964226A	DBT62 10DL	A	1	47	1.000	1.000	1.000	10.000	1.000	1.000	0.000	EPA8B	LPT1	
48	964226	DBT62	A	1	48	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
49	ZZZZZ		A	1	49	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
50	964227	DBT63	A	1	50	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
51	964228A	DBT64 100D	A	1	51	1.000	1.000	1.000	100.000	1.000	1.000	0.000	EPA8B	LPT1	
52	964228	DBT64 10DL	A	1	52	1.000	1.000	1.000	10.000	1.000	1.000	0.000	EPA8B	LPT1	
53	ZZZZZ		A	1	53	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
54	964229A	DBT65 100D	A	1	54	1.000	1.000	1.000	100.000	1.000	1.000	0.000	EPA8B	LPT1	
55	964229	DBT65 10DL	A	1	55	1.000	1.000	1.000	10.000	1.000	1.000	0.000	EPA8B	LPT1	
56	ZZZZZ		A	1	56	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	NOT USED WPL 06-03-92
57	PIBLKAE		A	1	57	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
58	INDAMAC		A	1	58	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
59	INDAMAE		A	1	59	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	NOT USED WPL 06-03-92
60	964230A	DBT66 100D	A	1	60	1.000	1.000	1.000	100.000	1.000	1.000	0.000	EPA8B	LPT1	
61	964230	DBT66 10DL	A	1	61	1.000	1.000	1.000	10.000	1.000	1.000	0.000	EPA8B	LPT1	
62	ZZZZZ		A	1	62	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
63	964231	DBT67 100D	A	1	63	1.000	1.000	1.000	100.000	1.000	1.000	0.000	EPA8B	LPT1	
64	964231	DBT67 10DL	A	1	64	1.000	1.000	1.000	10.000	1.000	1.000	0.000	EPA8B	LPT1	
65	ZZZZZ		A	1	65	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
66	964234	PBLKS1	A	1	66	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
67	964232	DBT69 100D	A	1	67	1.000	1.000	1.000	100.000	1.000	1.000	0.000	EPA8B	LPT1	
68	964232	DBT69	A	1	68	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
69	ZZZZZ		A	1	69	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
70	964233	DBT71	A	1	70	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
71	ZZZZZ		A	1	71	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
72	964231A	DBT67 1000	A	1	72	1.000	1.000	1.000	1000.000	1.000	1.000	0.000	EPA8B	LPT1	
73	ZZZZZ		A	1	73	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
74	ZZZZZ		A	1	74	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	NOT USED WPL 06-03-92
75	PIBLKAF		A	1	75	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
76	PEMAD		A	1	76	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
77	PIBLKAG		A	1	77	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
78	PEMAE		A	1	78	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	NOT USED WPL 06-03-92
79	964226	DBT62	A	1	79	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
80	ZZZZZ		A	1	80	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
81	ZZZZZ		A	1	81	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
82	ZZZZZ		A	1	82	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
83	ZZZZZ		A	1	83	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	NOT USED WPL 06-03-92
84	PIBLKAH		A	1	84	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
85	INDAMAD		A	1	85	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
86	INDAMAD		A	1	86	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	NOT USED WPL 06-03-92
87	ZZZZZ		A	1	87	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
88	ZZZZZ		A	1	88	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
89	ZZZZZ		A	1	89	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
90	ZZZZZ		A	1	90	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
91	ZZZZZ		A	1	91	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	NOT USED WPL 06-03-92
92	PIBLKAI		A	1	92	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
93	PEMAF		A	1	93	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
94	966274	EMS64	A	1	94	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
95	966276	EMS65	A	1	95	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
96	966280	EMS66	A	1	96	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
97	966281MS	EMS66MS	A	1	97	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
98	966281MSD	EMS66MSD	A	1	98	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
99	966282	EMS67	A	1	99	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
100	966284	PBLKW1	A	1	100	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	NOT USED WPL 06-03-92

John Gene
06-02-92
DOBY D31701 NEGHBOLE
DOB-2 D31608 NEGHBOLE
CASE # 19026

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101	967200	EQK30	A	1	101	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
102	967202	EQK31	A	1	102	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
103	967204	EQK32	A	1	103	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
104	967206MS	EQK32MS	A	1	104	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
105	967206MSD	EQK32MSD	A	1	105	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
~~106~~	~~ZZZZZ~~		~~A~~	~~1~~	~~106~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~0.000~~	~~EPA8B~~	~~LPT1~~	NOT USED WPL 06-03-92
107	PIBLKAJ		A	1	107	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
108	INDAMAE		A	1	108	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
109	INDBMAE		A	1	109	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
110	967208	EQK33	A	1	110	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
111	967210	PBLKW1	A	1	111	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
~~112~~	~~966704~~	~~PBLKS1~~	~~A~~	~~1~~	~~112~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~0.000~~	~~EPA8B~~	~~LPT1~~	
113	966699	EMS69	A	1	113	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
114	966700	EMS70	A	1	114	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
115	966701	EMS71	A	1	115	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
116	966703	EMS73	A	1	116	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
117	966702	EMS72	A	1	117	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
118	ZZZZZ		A	1	118	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
119	ZZZZZ		A	1	119	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
120	ZZZZZ		A	1	120	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
~~121~~	~~ZZZZZ~~		~~A~~	~~1~~	~~121~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~0.000~~	~~EPA8B~~	~~LPT1~~	NOT USED WPL 06-03-92
122	PIBLKAK		A	1	122	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
123	PEMAG		A	1	123	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
~~124~~	~~966702MS~~	~~EMS72MS~~	~~A~~	~~1~~	~~124~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~0.000~~	~~EPA8B~~	~~LPT1~~	
125	ZZZZZ		A	1	125	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
126	ZZZZZ		A	1	126	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
~~127~~	~~ZZZZZ~~		~~A~~	~~1~~	~~127~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~0.000~~	~~EPA8B~~	~~LPT1~~	NOT USED WPL 06-03-92
~~128~~	~~PIBLKAL~~		~~A~~	~~1~~	~~128~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~0.000~~	~~EPA8B~~	~~LPT1~~	
129	INDAMAF		A	1	129	1.000	1.000	1.000	1.000	1.000	1.000	0.000	EPA8B	LPT1	
~~130~~	~~INDBMAF~~		~~A~~	~~1~~	~~130~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~1.000~~	~~0.000~~	~~EPA8B~~	~~LPT1~~	NOT USED WPL 06-03-92

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

CLP INTERNAL CHAIN OF CUSTODY & SAMPLE TRACKING LOGSHEET

CASE NUMBER 19026

REGION V

CONTRACT NUMBER 68-D1-0087

CLAYTON PROJECT NUMBER 80138-17

EPA # & I.D.	LAB NUMBER	REMOVED BY	DATE & TIME	REASON	RETURNED TO	DATE & TIME
EQK 13	967174	T. Fields	04-30-92 1200	Volatile Storage		
13	175	TF		& Analysis		
14	176	TF				
14	177	TF				
15	178	TF				
15	179	TF				
16	180	TF				
16	181	TF				
17	182	TF				
17	183	TF				
18	184	TF				
18	185	TF				
19	186	TF				
19	187	TF				
VBLK	VBLK	TF				
						RD 04-30-92

NOTES: Samples were received from Federal Express at 0845 on 04-30-92. 7 L/s for VOA analysis, 1 water for VOA only analysis and 4 water for FTCL were received in total. Samples were logged in under Clayton Project # 80138-17. Samples for volatile analysis were assigned lab nos. 967174-967199 and transferred, along with lab blanks, to the custody of GC/MS chemist Tim Fields. BNA/P samples & lab blanks were assigned lab nos. 967200-967210 and transferred to ref. #13 for storage prior to extraction.

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Page 1 of 3
Robin Douglas
04-30-92

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

CLP INTERNAL CHAIN OF CUSTODY & SAMPLE TRACKING LOGSHEET

CASE NUMBER 19026

REGION V

CONTRACT NUMBER 68-D1-0087

CLAYTON PROJECT NUMBER 80138-17

EPA # & I.D.	LAB NUMBER	REMOVED BY	DATE & TIME	REASON	RETURNED TO	DATE & TIME
EQK30	967188	T = Field	04-30-92 1200	Volatile Storage		
30	189	TF		& Analysis		
31	190	TF				
31	191	TF				
32	192	TF				
32	193	TF				
32	194	TF				
32	195	TF				
32	243	TF				
32	244	TF				
33	196	TF				
33	197	TF				
34	198	TF				
34	199	TF				
UBLK	UBLK	TF				
UBLK	UBLK	TF				

NOTES:

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Page 2 of 3
Robert Dwight
04-30-92

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

CLP INTERNAL CHAIN OF CUSTODY & SAMPLE TRACKING LOGSHEET

CASE NUMBER 19026

REGION V

CONTRACT NUMBER 68-D1-0087

CLAYTON PROJECT NUMBER 80138-17

EPA # & I.D.	LAB NUMBER	REMOVED BY	DATE & TIME	REASON	RETURNED TO	DATE & TIME
EQK30	967200		04-30-92 1200	Storage in		
30	201			Ref. 13 prior		
31	202			to BNA/P		
31	203			extraction.		
32	204					
32	205					
32	206					
32	207					
33	208					
33	209					
S, PBLK	210					
RD04-30-92						

NOTES:

Page 3 of 3
Robin Dougherty
04-30-92

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CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

CLP INTERNAL CHAIN OF CUSTODY & SAMPLE TRACKING LOGSHEET

CASE NUMBER 19026

REGION V

CONTRACT NUMBER 68-D1-0087

CLAYTON PROJECT NUMBER 80138-17

EPA # & I.D.	LAB NUMBER	REMOVED BY	DATE & TIME	REASON	RETURNED TO	DATE & TIME
EQK30	967200	H. Summerour	050192@0840	Pest Extraction	Robin Douglas	050192@1000
EQK31	202	H.S.			RD	
EQK32	204	H.S.			RD	
EQK32	206	H.S.			RD	
EQK33	208	H.S.			RD	
PBLKW1	210	H.S.			RD	
						RD06-02-92

NOTES:

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19029.5

CLAYTON ENVIRONMENTAL CONSULTANTS, INC.

CLP INTERNAL CHAIN OF CUSTODY & SAMPLE TRACKING LOGSHEET

CASE NUMBER 19026

REGION V

CONTRACT NUMBER 68-D1-0087

CLAYTON PROJECT NUMBER 80138-17

EPA # & I.D.	LAB NUMBER	REMOVED BY	DATE & TIME	REASON	RETURNED TO	DATE & TIME
EQK30	967 201	[illegible]	05-04-92 1100	BNA Extraction	[illegible]	05-04-92 1300
31	203	RW			RD	
32	205	RW			RD	
32	207	RW			RD	
33	209	RW			RD	
SBLK	210	RW			RD	
						RD 06-02-92

NOTES:

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FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE TRACKING NUMBER

2271398710

RECIPIENT'S COPY

1 Date 4/29/92

From (Your Name) Please Print: Mrs Cappel
Your Phone Number (Very Important): (513) 241-0147
Company: RC ENVIRONMENTAL MANAGEMENT
Department/Floor No.:
Street Address: 44 LINN ST. STE 717
City: INCINNATI State: OH ZIP Required: 45203

2 To (Recipient's Name) Please Print: Robin Douglas
Recipient's Phone Number (Very Important): (313) 344-[illegible]
Company: Clayton Environmental Consultants
Department/Floor No.:
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 22345 Roethel Drive
City: Novi State: MI ZIP Required: 48029

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.): VSD-002902

H IF HOLD FOR PICK-UP, Print FEDEX Address Here
Street Address:
City: State: ZIP Required:

3 PAYMENT 1 [1] 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 [ ] YOUR PACKAGING
16 [ ] FEDEX LETTER
12 [ ] FEDEX PAK
13 [ ] FEDEX BOX
14 [ ] FEDEX TUBE

Standard Overnight (Delivery by next business afternoon†)
51 [ ] YOUR PACKAGING
56 [ ] FEDEX LETTER
52 [ ] FEDEX PAK
53 [ ] FEDEX BOX
54 [ ] FEDEX TUBE

Economy Two-Day (Delivery by second business day†)
30 [ ] ECONOMY

Government Overnight (Restricted for authorized users only)
46 [ ] GOV'T LETTER
41 [ ] GOV'T PACKAGE

Freight Service (for Extra Large or any package over 150 lbs.)
70 [ ] OVERNIGHT FREIGHT ** (Confirmed reservation required)
80 [ ] TWO-DAY FREIGHT **
† Delivery commitment may be later in some areas
*Declared Value Limit $100.
**Call for delivery schedule

5 DELIVERY AND SPECIAL HANDLING (Check services required)
1 [ ] HOLD FOR PICK-UP (Fill in Box H)
2 [ ] DELIVER WEEKDAY
3 DELIVER SATURDAY (Extra charge) (Not available to all locations) [ ]
4 [ ] DANGEROUS GOODS (Extra charge)
5 [ ]
6 [ ] DRY ICE ..... Lbs
7 [ ] OTHER SPECIAL SERVICE
8 [ ]
9 [ ] SATURDAY PICK-UP (Extra charge)
10 [ ]
11 [ ]
12 [ ] HOLIDAY DELIVERY (If offered) (Extra charge)

6 PACKAGES / WEIGHT In Pounds Only / YOUR DECLARED VALUE
1 4 9
1 8 4
Total Total 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 [ ] Station

Emp. No. Date
[ ] Cash Received
[ ] Return Shipment
[ ] Third Party [ ] Chg. To Del. [ ] Chg. To Hold
Street Address
City State Zip
Received By: X Robin Douglas
Date/Time Received: 04-30-92 0845 FedEx Employee Number

7 Release Signature:
FedEx Emp. No. Date/Time

Federal Express Use
Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges

REVISION DATE 6/91
PART #137204 FXEM 2/92
FORMAT #099
099
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647

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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.:

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.:
Sampling Co.:
5. Date Shipped:
Carrier:
7. Date Received -- Received by: 04-30-92 SDG#: EQK13 Robin Douglas
Sampler (Name): C. Hrach
Airbill Number: [illegible]
Laboratory Contract Number: 68-D1-0087
Unit Price: $810.00
Sampler Signature: C. Hrach
6. Ship To: Clayton Env. Consultant, 22345 Roethel Drive, Novi, MI 48375
ATTN: Robin Douglas
8. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

4. 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

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.
EQK30	1	L	G	N		X			5-046623, 5-046624	SW-2	4/29/92 1245	CLH	MERA32	Intact			
EQK32	↓	↓	↓	↓			X		5-046625, 5-046626	SW-2	4/29/92 1245	↓	MERA32	↓			
EQK16	5	L	G	N	X				5-046561, 5-046562	SD-5	4/29/92 1300		MERA16				
EQK17	↓	↓	↓	↓	X				5-046565, 5-046566	SD-6	4/29/92 1330		MERA17				
EQK18	↓	↓	↓	↓	X				5-046569, 5-046570	SD-7	4/29/92 1045		MERA18				
EQK19	↓	↓	↓	↓	X				5-046573, 5-046574	SD-8	4/29/92 1030	↓	MERA19	↓			

Shipment for Case complete? (Y/N): Y
Page 1 of ____
Sample used for a spike and/or duplicate: EQK32, EQK14
Additional Sampler Signatures: [illegible]
Chain of Custody Seal Number: 157439, 157440

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	4/29/92 1640	Christopher P. Coppell	Christopher P. Coppell	4/29/92 1642	CPC 4/29/92 ~~157439, 157440~~
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	
		Robin Douglas	04-30-92 0845	Intact	

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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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.:

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.:
Sampling Co.:
5. Date Shipped:
Carrier:
7. Date Received -- Received by: 04-30-92 SDG# = EQK13 Robin Douglas

Sampler (Name): C. [illegible]
Airbill Number: [illegible]
Laboratory Contract Number: 68-D1-0087
Unit Price: $810.00

Sampler Signature: [illegible]
6. Ship To: Clayton Env. Consultants, 22345 Roethel Drive, Novi, MI 48375, ATTN: Robin Douglas
8. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF	X		RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI X	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

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.
~~EQK12~~	~~5~~	~~L~~	~~G~~	~~N~~	X				~~5-046545, 5-046546~~	~~SD-1~~	~~4/29/92~~	~~CLA~~	~~MERA12~~	Intact			
EQK13	↓	↓	↓	↓	X				5-046549, 5-046550	SD-2	4/29/92 1530	↓	MERA13	↓			
EQK14	↓	↓	↓	↓	X				5-046553, 5-046554	SD-3	4/29/92 1550	↓	MERA14	↓			
EQK15	↓	↓	↓	↓	X				5-046557, 5-046556	SD-4	4/29/92 1500	↓	MERA15	↓			
EQK30	↓	L	G	↓	X				5-046605, 5-046606	SW-1	4/29/92 1100	↓	MERA30	↓			
EQK30	↓	↓	↓	N		X			5-046607	SW-1	4/29/92 1100	↓	MERA30	↓			
EQK30	↓	↓	↓	N			X		5-046608	SW-1	4/29/92 1100	↓	MERA30	↓			
EQK31	↓	↓	↓	↓	X				5-046611, 5-046612	SW-1D	4/29/92 1100	↓	MERA31	↓			
EQK31	↓	↓	↓	N	~~X~~ SPCNFRMS	~~X~~			5-046613	SW-1D	4/29/92 1100	↓	MERA31	↓			
EQK31	↓	↓	↓	N			X		5-046614	SW-1D	4/29/92 1100	↓	MERA31	↓			

Shipment for Case complete? (Y/N): Y
Page 1 of 2
Sample used for a spike and/or duplicate: EQK30, EQK14
Additional Sampler Signatures: [illegible]
Chain of Custody Seal Number: 157441, 157442

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	4/29/92 1650	Christopher R. Cappel	Christopher R. Cappel	4/29/92 1651	
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
		Robin Douglas	04-30-92 0845	Intact	

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

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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.:

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.:
Sampling Co.:
Sampler (Name): [illegible]
Sampler Signature: [illegible]

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF	X		RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI X	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

5. Date Shipped:
Carrier:
Airbill Number: 2271398140

6. Ship To: Clayton Envir. Consultants
22345 Roethel Drive
Novi, MI 48375
ATTN: Robin Douglas

7. Date Received -- Received by: 04-30-92 SDG#: EQK13 Robin Douglas
Laboratory Contract Number: 68-D1-0087
Unit Price: $810.00
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.
EQK32	1	L	G	1	X				5-046617-046622	SW-2	4/29/92 1245	CLH	MERA33	Intact			
EQK33				1	X				5-046631,5-046632	FB-1	4/29/92 1210		MERA33				
EQK33				N		X			5-046633	FB-1	4/29/92 1210		MERA33				
EQK33				N			X		5-046634	FB-1	4/29/92 1210		MERA33				
* EQK34				1	X				5-046637,5-046638	TB-1	4/29/92 900						

* SDG - Final Sample, RD 04-30-92

Shipment for Case complete? (Y/N): Y
Page 1 of 2
Sample used for a spike and/or duplicate: EQK32, EQK11
Additional Sampler Signatures: [illegible]
Chain of Custody Seal Number: 157441, 157442

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	4/29/92 1650	Christopher P. Coppel	Christopher P. Coppel	4/29/92 1651	
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	
		Robin Douglas	04-30-92 0845	Intact	

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

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Clayton Environmental Consultants, Inc.

LOG-IN SHEET

SAMPLE CUSTODIAN SIGNATURE: Robin Douglas
DATE: 04-30-92

CASE NUMBER : 19026
AIRBILL NUMBER : 2271398710
CLAYTON PROJECT NO. : 80138-17
SDG NUMBER : EQK13

DATE RECEIVED	TIME RECEIVED	CHAIN OF CUSTODY RECORD	SMO SAMPLE NUMBERS	ANALYSIS	MATRIX	SAMPLE TAG NUMBERS	ASSIGNED LAB NUMBERS
04-30-92	0845	0-02243	EQK 13	VOA	Soil	5-046549	967174
			13	extra		550	175
			14	MS/MSD		553	176
			14	extra		554	177
			15			557	178
			15	extra		558	179
		0-02242	16			561	180
			16	extra		562	181
			17			565	182
			17	extra		566	183
			18			569	184
			18	extra		570	185
			19			573	186
			19	extra		574	187
RD 04-30-92							

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19026.5

Clayton Environmental Consultants, Inc.

LOG-IN SHEET

SAMPLE CUSTODIAN SIGNATURE: Robin Douglas
DATE: 04-30-92

CASE NUMBER : 19026
AIRBILL NUMBER : 2271398710
CLAYTON PROJECT NO. : 80138-17
SDG NUMBER : EQK13

DATE RECEIVED	TIME RECEIVED	CHAIN OF CUSTODY RECORD	SMO SAMPLE NUMBERS	ANALYSIS	MATRIX	SAMPLE TAG NUMBERS	ASSIGNED LAB NUMBERS
04-30-92	0845	0-02243	EQK 30	VOA	Water	5-046605	967188
			30	extra		606	189
			31			611	190
			31	extra		612	191
		0-02244	32	MS/MSD		617	192
			32	extra		618	193
			32	extra		619	194
			32	extra		620	195
			32	extra		621	243
			32	extra		622	244
			33			631	196
			33	extra		632	197
			34			637	198
			34	extra		638	199
RDC4-30-92							

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19026.5

Clayton Environmental Consultants, Inc.

LOG-IN SHEET

SAMPLE CUSTODIAN SIGNATURE: Robin Douglas
DATE: 04-30-92

CASE NUMBER: 19026
AIRBILL NUMBER: 2271398710
CLAYTON PROJECT NO.: 80138-17
SDG NUMBER: EQK13

DATE RECEIVED	TIME RECEIVED	CHAIN OF CUSTODY RECORD	SMO SAMPLE NUMBERS	ANALYSIS	MATRIX	SAMPLE TAG NUMBERS	ASSIGNED LAB NUMBERS
04-30-92	0845	0-02243	EQK30	BNA/P	Water	5-0466607	967200
			30	extra		608	201
			31			613	202
			31	extra		614	203
		0-02242	32	MS/MSD		623	204
			32	extra		624	205
			32	extra		625	206
			32	extra		626	207
		0-02244	33			633	208
			33	extra		634	209
N/A	N/A	N/A	SPBLK			N/A	210
RDO 4-30-92							

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19026.5

19026-5

SAMPLE LOG-IN SHEET

Lab Name: Clayton Environmental Consultants

Page 1 of 1

Received By (Print): Robin Douglas

Log-in Date 04-30-92 1030

Received By (Signature): Robin Douglas

Case Number: 19026

Sample Deliver Group No.: EQK13

SAS Number:

REMARKS:

1. Custody Seal(s) Present/Absent* Intact/Broken
2. Custody Seal Nos: 157439, 157440
3. Chain-of-Custody Records Present/Absent*
4. Traffic Reports or Packing List Present/Absent*
5. Airbill Airbill/Sticker Present/Absent*
6. Airbill No.: 2271398710
7. Sample Tags Present/Absent*

   Sample Tag Numbers 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: 04-30-92
11. Time Received: 0845

EPA SAMPLE #	CORRESPONDING SAMPLE TAG #	CORRESPONDING ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
EQK16VOA	5-046561	967180	Intact-Ice
16	562	181	Present
17	565	182	
17	566	183	
18	569	184	
18	570	185	
19	573	186	
19	574	187	
EQK32BNA/P	5-046623	204	
32	624	205	
32	625	206	
32	626	207	
			RD 04-30-92

Sample Transfer

Fraction:	VOA	BNA/P
Area #:	Ref. 30	Ref. 13
By:	Robin Douglas	Robin Douglas
On:	04-30-92	04-30-92

* Contact SMO and attach record of resolution

Reviewed By: Todd Outhouse

Date: 06-05-92

Logbook No.:

Logbook Page No.:

FORM DC-1

19026 · 5

SAMPLE LOG-IN SHEET

Lab Name: Clayton Environmental Consultants

Page 1 of 2

Received By (Print): Robin Douglas

Log-in Date 04-30-92 1030

Received By (Signature): Robin Douglas

Case Number: 19026

Sample Deliver Group No.: EQK13

SAS Number:

REMARKS:

1. Custody Seal(s) Present/Absent* Intact/Broken
2. Custody Seal Nos: 157441 157442
3. Chain-of-Custody Records Present/Absent*
4. Traffic Reports or Packing List Present/Absent*
5. Airbill Airbill/Sticker Present/Absent*
6. Airbill No.: 2271398710
7. Sample Tags Present/Absent*
   Sample Tag Numbers 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: 04-30-92
11. Time Received: 0845

EPA SAMPLE #	CORRESPONDING SAMPLE TAG #	CORRESPONDING ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
EQK13 VOA	5-046549	967174	Intact · Ice
13	550	175	Present
14	553	176	
14	554	177	
15	557	178	
15	558	179	
30	605	188	
30	606	189	
31	611	190	
31	612	191	
32	617	192	
32	618	193	
32	619	194	
32	620	195	
32	621	243	
32	622	244	
33	631	196	
33	632	197	
34	637	198	
34	638	199	

Sample Transfer

Fraction: VOA

Area #: Ref.#30

By: Robin Douglas

On: 04-30-92 RD04-30-92

* Contact SMO and attach record of resolution

Reviewed By: Jeff J. Dittmann

Date: 05/03/92

Logbook No.:

Logbook Page No.:

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name: Clayton Environmental Consultants

Page 2 of 2

Received By (Print): Robin Douglas

Log-in Date 04-30-92 1030

Received By (Signature): Robin L Douglas

Case Number: 19026

Sample Deliver Group No.: EQK13

SAS Number:

REMARKS:

1. Custody Seal(s) Present/Absent* Intact/Broken
2. Custody Seal Nos: 157441, 157442
3. Chain-of-Custody Records Present/Absent*
4. Traffic Reports or Packing List Present/Absent*
5. Airbill Airbill/Sticker Present/Absent*
6. Airbill No.: 2271398710
7. Sample Tags Present/Absent*

   Sample Tag Numbers 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: 04-30-92
11. Time Received: 0845

EPA SAMPLE #	CORRESPONDING SAMPLE TAG #	CORRESPONDING ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
EQK30BNA/P	5-046607	967200	Intact - Ice
30	608	201	Present
31	613	202	
31	614	203	
33	633	208	
33	634	209	

RD 04-30-92

Sample Transfer

Fraction: BNA/P

Area #: Rg. #13

By: Robin Douglas

On: 04-30-92 RD04-30-92

* Contact SMO and attach record of resolution

Reviewed By: Todd J. Calhoun

Date: 05/03/92

Logbook No.:

Logbook Page No.:

FORM DC-1

SAMPLE DELIVERY GROUP (SDG)
TRAFFIC REPORT (TR) COVER SHEET

Lab Name: Clayton Environmental Contract No.: 68-D1-0087

Lab Code: CLAYTN Case No.: 19026 SAS No.: _____

Full Sample Analysis Price in Contract: $ 810.00
SDG No./First Sample in SDG: EQK13 Sample Receipt Date: 04/30/92 (MM/DD/YY)
(Lowest EPA Sample Number in first shipment of samples received under SDG)

Last Sample in SDG: EQK34 Sample Receipt Date: 04/30/92 (MM/DD/YY)
(Highest EPA Sample Number in last shipment of samples received under SDG)

EPA Sample Numbers in the SDG (listed in alphanumeric order):

1	EQK13	11	EQK33
2	EQK14	12	EQK34
3	EQK15	13	
4	EQK16	14	
5	EQK17	15	
6	EQK18	16	
7	EQK19	17	
8	EQK30	18	
9	EQK31	19	
10	EQK32	20	

Note: There are a maximum of 20 field samples in an SDG.

Attach Traffic Reports to this form in alphanumeric order (i.e., the order listed on this form).

Robin Douglas
Sample Custodian

04-30-92
Date

18026 : 5

In Reference to Case No(s):

19026

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: 04/23/98

Laboratory Name: Clayton Environmental

Lab Contact: Todd Outhouse

Region: SMO

Regional Contact: Johnathan Rude

Call Initiated By: ____ Laboratory ___✓___ ~~Region~~ SMO

In reference to data for the following sample number(s):

Summary of Questions/Issues Discussed:

Shipping week of 4/27/98
Case 19026 - Region V
845 - FTCL
44w - FTCL
14w - VOA only

Summary of Resolution:

Todd A. Outhouse
Signature

04/23/98
Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

Site

CENTRAL REGIONAL LABORATORY SAMPLE DATA REPORT
ORGANICS/INORGANICS

THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

CASE NUMBER/SAS No. 19026 SITE NAME SATRALLOY LABORATORY CLAYTON ENV. CONS. DATE SHIPPED 4/29/92

SUPERFUND DU NUMBER _____ EPA RPM or OSC (S.M.S.)/(CES) _____ CERCLIS # OHD010467538 PAGE 1 OF 1

ACTIVITY NUMBER SSI/ZZ

CRL LOG NUMBER	ORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No.	INORGANIC TRAFFIC REPORT NUMBER	WATER OR LIQUIDS: ACID BASE NEUTRAL CPDS ORGANIC SCAN UG L TOX17574	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN UG L TOX17564	WATER POLYCHLORINATED BIPHENYLS UG L PES 17144	WATER CHLORINATED PESTICIDES UG L PES17134	TOTAL METALS IN WATER UG L MET111	WATER CYANIDE UG L MIN74919	NITRATE NITRITE MG L MIN7284	AMMONIA MG L MIN7294	RESIDUE, FILTERABLE TDS MG L MIN7362	RESIDUE NON-FILT TSS MG L MIN7372			SEDIMENTS or SOILS: ACID-BASE NEUTRAL CPDS ORGANIC SCAN MG KG TOX215722	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN MG KG TOX215622	SEDIMENTS POLYCHLORINATED BIPHENYLS MG KG PES[illegible]	SEDIMENTS CHLORINATED PESTICIDES MG KG [illegible]	TOTAL METALS MG KG MET[illegible]	CYANIDE MG KG MIN4930	EP TOXICITY METALS MG KG	AMMONIA MG KG MIN[illegible]				
92ZF90S17	EQK30		X	X	X	X																				
92ZF90D17	EQK31		X	X	X	X																				
92ZF90S18	EQK32		X	X	X	X																				
92ZF90R04	EQK33		X	X	X	X																				
92ZF90R05	EQK34					\									X	X										
92ZF90S19	EQK13															X										
92ZF90S20	EQK14															X										
92ZF90S21	EQK15															X										
92ZF90S22	EQK16															X										
92ZF90S23	EQK17															X										
92ZF90S24	EQK18															X										
92ZF90S25	EQK19															X										

JUN 05 1992 Q. D. Harris ESA

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.: 19026

1. Project Code:
Account Code:
2. Region No.: 5
Sampling Co.: PRC
4. Date Shipped: 4/29/92
Carrier: Federal Express

Regional Information: TFA 102
Sampler (Name): C. Hirschman
Airbill Number: 2271398710

Non-Superfund Program
Sampler Signature: C. Hirschman
5. Ship To: Clayton Env. Consultants, 22345 Roethel Drive, Novi, MI 48375
ATTN: Robin Douglas

Site Name: Satralloy
City, State: Steubenville, OH
Site Spill ID: SSIZZ

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)
EQK32	1	L	G	N		X			5-046623, 5-046624	SW-2	4/29/92 1245	CLH	MERA32	
EQK32	↓	↓	↓	↓			X		5-046625, 5-046626	SW-2	4/29/92 1245	↓	MERA32	
EQK16	5	L	G	N	X				5-046561, 5-046562	SD-5	4/29/92 1300	↓	MERA16	
EQK17	↓	↓	↓	↓	X				5-046565, 5-046566	SD-6	4/29/92 1230	↓	MERA17	
EQK18	↓	↓	↓	↓	X				5-046569, 5-046570	SD-7	4/29/92 1045	↓	MERA18	
EQK19	↓	↓	↓	↓	X				5-046573, 5-046574	SD-8	4/29/92 1030	↓	MERA19	

Shipment for Case complete? (Y/N): Y
Page 1 of ____
Sample used for a spike and/or duplicate: EQK32, EQK14
Additional Sampler Signatures: [illegible]
Chain of Custody Seal Number: 157439, 157440

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Christine Hirschman	4/29/92 1640	Christopher R. Cappell	Christopher R. Cappell	4/29/92 1642	CIR 4/29/92 ~~157439, 157440~~
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 (2075-7) (5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION: Blue - Region Copy Copy for Return to SMO ... SMO Copy White - Lab Copy for Return to Region Yellow - Lab

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

Org-1

O 02242

Organic Sample Collection Requirements

"This form replaces both the individual Traffic Report and EPA Chain of Custody Record. If th team elects to use an alternative chain-of-custody form, cross out the bottom portion of this record and 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.: 19026

1. Project Code:
Account Code:
2. Region No.: 5
Sampling Co.: PRC
4. Date Shipped: 4/29/92
Carrier: Federal Express

Regional Information: TFA 102
Sampler (Name): C. Hirschman
Airbill Number: 2271398710

Non-Superfund Program
Sampler Signature: C. Hirschman
5. Ship To: Clayton Env. Consultants, 22345 Roethel Drive, Novi, MI 48375, ATTN: Robin Douglas

Site Name: Satralloy
3. Type of Activity: Lead: SF [X], PRP [ ], ST [ ], FED [ ]; Pre-Remedial: PA [ ], SSI [X], LSI [ ]; Remedial: RIFS [ ], RD [ ], RA [ ], O&M [ ], NPLD [ ]; Removal: CLEM [ ], REMA [ ], REM [ ], OIL [ ], UST [ ]

City, State: Steubenville, OH
Site Spill ID: SSIZZ

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)
~~EQK12~~	~~5~~	~~L~~	~~G~~	~~N~~	X				~~5-046545, 5-046546~~	~~SD-1~~	~~4/29/92~~	~~CLH~~	~~MERA12~~	~~CRC 4/29/92~~
EQK13	↓	↓	↓	↓	X				5-046549, 5-046550	SD-2	4/29/92 1530	↓	MERA13	
EQK14	↓	↓	↓	↓	X				5-046553, 5-046554	SD-3	4/29/92 1550	↓	MERA14	
EQK15	↓	↓	↓	↓	X				5-046557, 5-046558	SD-4	4/29/92 1500	↓	MERA15	D
EQK30	1	L	G	1	X				5-046605, 5-046606	SW-1	4/29/92 1100	↓	MERA30	
EQK30	↓	↓	↓	N		X			5-046607	SW-1	4/29/92 1100	↓	MERA30	
EQK30	↓	↓	↓	N			X		5-046608	SW-1	4/29/92 1100	↓	MERA30	
EQK31	↓	↓	↓	1	X	4/29/92			5-046611, 5-046612	SW-1D	4/29/92 1100	↓	MERA31	D (~~MA~~ CRC 4/29/92 EQK30)
EQK31	↓	↓	↓	N	~~X~~ CRC 4/29/92	X			5-046613	SW-1D	4/29/92 1100	↓	MERA31	D (EQK30)
EQK31	↓	↓	↓	N			X		5-046614	SW-1D	4/29/92 1100	↓	MERA31	D (EQK30)

Shipment for Case complete? (Y/N): Y
Page 1 of 2
Sample used for a spike and/or duplicate: EQK32, EQK14
Additional Sampler Signatures: [signature]
Chain of Custody Seal Number: 157441, 157442

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Christine Hirschman	4/29/92 1650	Christopher P. Capuel	Christopher P. Capuel	4/29/92 1651	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
EPA Fed by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

Split Samples: [ ] Accepted (Signature) [ ] Declined

DISTRIBUTION: Blue - Region Copy, Pink - Copy for Return to SMO, White - Lab Copy for Return to Region, Yellow - Lab

Replaces EPA Form (2075-7), previous edition which may be used

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

Org-1

O 02243

Organic Sample Collection Requirements

"This form replaces both the individual Traffic Report and EPA Chain of Custody Record. team elects to use an alternative chain-of-custody form, cross out the bottom portion of this record 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	Contai
Extractable Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz. Wide-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.: 19026

1. Project Code:
Account Code:
2. Region No.: 5
Sampling Co.: PRC
4. Date Shipped: 4/29/92
Carrier: Federal Express

Regional Information: TFA 102
Sampler (Name): C. Hirschman
Airbill Number: 2271398710

Non-Superfund Program
Sampler Signature: C. Hirschman
5. Ship To: Clayton Env. Consultants, 22345 Roethel Drive, Novi, MI 48375, ATTN: Robin Douglas

Site Name: Satralloy
City, State: Steubenville, OH
Site Spill ID: SSI 22

3. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF	X		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)
EQK32	1	L	G	1	X				5-046617-046622	SW-2	4/29/92 1245	CLH	MERA32	
EQK33	↓	↓	↓	1	X				5-046631, 5-046632	FB-1	4/29/92 1210	↓	MERA33	B
EQK33				N		X			5-046633	FB-1	4/29/92 1210		MERA33	B
EQK33				N			X		5-046634	FB-1	4/29/92 1210		MERA33	B
EQK34	↓	↓	↓	1	X				5-046637, 5-046638	TB-1	4/29/92 900	↓		B

Shipment for Case complete? (Y/N): Y
Page 1 of 2
Sample used for a spike and/or duplicate: EQK32, EQK14
Additional Sampler Signatures: [signature]
Chain of Custody Seal Number: 157441, 157442

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Christine Hirschman	4/29/92 1650	Christopher P. Coppel	Christopher P. Coppel	4/29/92 1651	
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 1 replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION: White - Lab Copy for Return to Region Yellow - Lab Copy for Return to SMO Blue - Region Copy Pink

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O 02244

1-8-1

Organic Sample Collection Requirements

"This form replaces both the individual Traffic Report and EPA Chain of Custody Recor team elects to use an alternative chain-of-custody form, cross out the bottom portion of this recor 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
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*All Medium and High Level Samples to be Sealed In Metal Can for Shipment

Soil/Sediment Samples	Required Volume	Con
Extractable Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz. Wi Glass J
		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
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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.
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- 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

FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER

1862780905

20020 1862780905

RECIPIENT'S COPY

1 Date 06/03/92

From (Your Name) Please Print: Mr. Todd Outhouse
Your Phone Number (Very Important): (313)344-1770
Company: CLAYTON ENVIRONMTL CONSULTANTS
Department/Floor No.
Street Address: 22345 ROUTHE DRIVE
City: TOVI State: MI ZIP Required: 4 8 3 7 3

2 To (Recipient's Name) Please Print: Mr. Chuck Elly
Recipient's Phone Number (Very Important): (312) 353-9064
Company: USEPA Region V, ESD 10th Floor, SSCRL
Department/Floor No.
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): SSC 536 S. Clark Street
City: Chicago State: IL ZIP Required: 60605

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)
Clayton 19026, Rev. V

H IF HOLD FOR PICK-UP, 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 [ ] YOUR PACKAGING
16 [ ] FEDEX LETTER *
12 [X] FEDEX PAK *
13 [ ] FEDEX BOX
14 [ ] FEDEX TUBE

Standard Overnight (Delivery by next business afternoon†)
51 [ ] YOUR PACKAGING
56 [ ] FEDEX LETTER *
52 [ ] FEDEX PAK *
53 [ ] FEDEX BOX
54 [ ] FEDEX TUBE

Economy Two-Day (Delivery by second business day†)
30 [ ] ECONOMY

Government Overnight (Restricted for authorized users only)
46 [ ] GOVT LETTER
41 [ ] GOVT PACKAGE

Freight Service (for Extra Large or any package over 150 lbs.)
70 [ ] OVERNIGHT FREIGHT ** (Confirmed reservation required)
80 [ ] TWO-DAY FREIGHT **

†Delivery commitment may be later in some areas
*Declared Value Limit $100.
**Call for delivery schedule

5 DELIVERY AND SPECIAL HANDLING (Check services required)

1 [ ] HOLD FOR PICK-UP (Fill in Box H)
2 [X] DELIVER WEEKDAY
3 DELIVER SATURDAY (Extra charge) (Not available to all locations) [ ]
4 [ ] DANGEROUS GOODS (Extra charge)
5 [ ]
6 [ ] DRY ICE Lbs
7 [ ] OTHER SPECIAL SERVICE
8 [ ]
9 [ ] SATURDAY PICK-UP (Extra charge)
10 [ ]
11 [ ]
12 [ ] HOLIDAY DELIVERY (If offered) (Extra charge)

6 PACKAGES | WEIGHT In Pounds Only | YOUR DECLARED VALUE
1 | 6
Total | Total | 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 [ ] Station

Emp. No. Date
[ ] Cash Received
[ ] Return Shipment
[ ] Third Party [ ] Chg. To Del. [ ] Chg. To Hold
Street Address
City State Zip
Received By: X
Date/Time Received FedEx Employee Number

7 Release Signature:
FedEx Emp. No. Date/Time:

Federal Express Use
Base Charges
Declared Value Charge
Other 1
Other 2
Total Charges

REVISION DATE 6/91
PART #137204 FXEM 12/91
FORMAT #099
099

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MULTIPLE PACKAGE SERVICE

IF YOU ARE MAKING AN MPS SHIPMENT, APPLY THE SELF ADHESIVE MPS COPY HERE

TERMS AND CONDITIONS

DEFINITIONS

On this Airbill, we, our and us refer to Federal Express Corporation, its employees and agents. You and your refer to the sender, its employees and agents.

AGREEMENT TO TERMS

By giving us your package to deliver, you agree to all the terms on this Airbill and in our current Service Guide, which is available on request. If there is a conflict between the current Service Guide and this Airbill, the Service Guide will control. No one is authorized to alter or modify the terms of our Agreement.

RESPONSIBILITY FOR PACKAGING AND COMPLETING AIRBILL

You are responsible for adequately packaging your goods and for properly filling out this Airbill. Omission of the number of packages and weight per package from this Airbill will result in a billing based on our best estimate of the number of packages received from you and an estimated "default" weight per package, as determined and periodically adjusted by us.

AIR TRANSPORTATION TAX INCLUDED

Our basic rate includes a federal tax required by Internal Revenue Code Section 4271 on the air transportation portion of this service.

LIMITATIONS ON OUR LIABILITY AND LIABILITIES NOT ASSUMED

Our liability for loss or damage to your package is limited to your actual damages or $100, whichever is less, unless you pay for and declare a higher authorized value. We do not provide cargo liability insurance, but you may pay an additional charge for each additional $100 of declared value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your package.

In any event we will not be liable for any damages, whether direct, incidental, special or consequential in excess of the declared value of a shipment, whether or not Federal Express had knowledge that such damages might be incurred including, but not limited to, loss of income or profits.

We won't be liable for your acts or omissions, including but not limited to improper or insufficient packing, securing, marking or addressing, or for the acts or omissions of the recipient or anyone else with an interest in the package. Also, we won't be liable if you or the recipient violates any of the terms of our agreement. We won't be liable for loss of or damage to shipments of prohibited items.

We won't be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts or omissions of public authorities (including customs and quarantine officials) with actual or apparent authority.

DECLARED VALUE LIMITS

The highest declared value we allow for FedEx Letter and FedEx Pak shipments is $100. For other shipments, the highest declared value we allow is $25,000 unless your package contains items of "extraordinary value," in which case the highest declared value we allow is $500. Items of "extraordinary value," include artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in our current Service Guide.

If you send more than one package on this Airbill, you may fill in the total declared value for all packages, not to exceed the $100, $500 or $25,000 per package limit described above. (Example: 5 packages can have a total declared value of up to $125,000.)

If more than one package is shipped on this airbill, our liability for loss or damage will be limited to the actual value of the package(s) lost or damaged (not to exceed the lesser of the total declared value or the per package limits described above). You have the responsibility of proving the actual loss or damage.

FILING A CLAIM

ALL CLAIMS MUST BE MADE BY YOU IN WRITING. You must notify us of your claim within strict time limits. See current Service Guide.

We'll consider your claim filed if you call and notify our Customer Service Department at 800-238-5355 and notify us in writing as soon as possible.

Within 90 days after you notify us of your claim, you must send us all relevant information about it. We are not obligated to act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any damage on the delivery record, we will assume that the package was delivered in good condition. In order for us to process your claim, you must, to the extent possible, make the original shipping cartons and packing available for inspection.

RIGHT TO INSPECT

We may, at our option, open and inspect your packages prior to or after you give them to us to deliver.

NO C.O.D. SERVICES

NO C.O.D. SERVICES ON THIS AIRBILL. If C.O.D. Service is required, please use a Federal Express C.O.D. airbill for this purpose.

RESPONSIBILITY FOR PAYMENT

Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any costs we may incur in either returning your package to you or warehousing it pending disposition.

RIGHT OF REJECTION

We reserve the right to reject a shipment at any time, when such shipment would be likely to cause damage or delay to other shipments, equipment or personnel, or if the transportation of which is prohibited by law or is in violation of any rules contained in this Airbill or our current Service Guide.

MONEY-BACK GUARANTEE

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for further information.

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