DATA CHEM
LABORATORIES, INC.
A SORENSON COMPANY

211025

Case Narrative

Method:	8080A	**Client:**	Roy F. Weston
Analysis:	Polychlorinated Biphenyls	**Project:**	EPA Region II START #G2
Preparation SOP No.:	OE-SW-3550	**SDG No.:**	MMMND2
Analysis SOP No.:	OE-SW-8080	**DCL Account:**	3008
Matrix:	Soil	**DCL Set ID:**	97C-0426-01

General Set Information: [illegible] The sample was batched with a method blank san[illegible]nple and a amtrix spike duplicate sample fo[illegible]6 Method 8080A.

Method Summary: Each sa[illegible]ncentrated in a K-D apparatus. A solvent exchange [illegible]ne was adjusted to 10 mL. Analysis was perfor[illegible] with electron capture detector.

12-5-97

Sample Preparation: The s[illegible]rocedures found in EPA SW-846 Method 3550C, [illegible]o the appearance of the final extracts, prior to sam[illegible] concentrated sulfuric acid to prevent instrument cc[illegible]cation (EPA SW-846 Method 3665) and su[illegible]660A).

Holding Times: Holding tim[illegible]n and analysis.

Dilutions: All samples were reanalyzed at dilutions with exception of the method blank sample, the laboratory control sample and field samples 97C05023 and 97C05037. Sample 97C05032 was reanalyzed at a 1:5 dilution. Sample 97C05029 was reanalyzed at a 1:10 dilution. Samples 97C05020, 97C05021, 97C05022, 97C05024, 97C050225 and 97C05030 were reanalyzed at 1:50 dilutions. Samples 97C05035, 97C05036, 97C05038 and 97C05039 were reanalyzed at 1:100 dilutions. Samples 97C05027 and 97C05028 were reanalyzed at 1:200 dilutions. Samples 97C05031 and 97C05034 were reanalyzed at 1:500 dilutions. Samples 97C05026, 97C05033, 97C05033MS and 97C05033MSD were reanalyzed at 1:2000 dilutions. All samples were initially analyzed at full strength. All tetrachloro-m-xylene surrogate recoveries are reported from the dilution analyses except samples 97C05022, 97C05023, 97C05026, 97C05028, 97C05031, 97C05033, 97C05033MS, 97C05033MSD, 97C05034, 97C05037 and 97C05039. All dibutylchlorendate surrogate recoveries are reported from the dilution analyses with exception of samples 97C05023 and 97C05037.

Method and Sample QC Data:

Method Blank (BL) : No target analytes were detected in the method blank.

0004

Laboratory Control Sample (QC): The QC was spiked with 167 ug/kilogram of PCB-1016 and PCB-1260. QC recoveries were within control limits.

MS/MSD Sample(s): The matrix spike and matrix spike duplicate samples are prepared from sample 97C05033. Samples were spiked with 167 ug/kilogram of PCB-1016 and PCB-1260. Due to the high concentration of PCB-1254 in the parent sample, the spike samples required 1:2000 dilutions to effectively quantitate the PCBs. Spike recoveries were diluted out for both the MS and MSD samples. The relative percent difference between the two spike recoveries were outside of method performance control limits. Poor MS/MSD results are attributted to the sample matrix.

Surrogates: All samples were spiked with 16.7 ug/kilogram of surrogate standards tetrachloro-m-xylene and dibutylchorendate. Even though the method only requires one surrogate to be within control limits, two are spiked. This is done since the retention time window for tetrachloro-m-xylene falls in the same region as PCB 1016 while the retention time window for dibutylchlorendate falls in the same region as PCB 1260. If high concentrations of either PCB are present in the sample, the remaining surrogate can still be effectively quantitated, maintaining acceptable quality control. All tetrachloro-m-xylene recoveries were within the method performance control limits with exception of recoveries from samples 97C05023, 97C05028 and 97C05033MSD. The dibutylchorendate surrogate recovery for sample 97C05023 was within method performance control limits. Therefore, since one of the two surrogates was within the method control limits for all samples except 97C05028 and 97C05033MSD, method acceptance criteria was met for all samples except 97C05028 and 97C05033MSD.

Instrument QC:

Initial Calibration: All calibration curves met method specification.

Initial Calibration Verification: All analyte recoveries were within ±25%.

Continuing Calibration Verification: All surrogate continuing calibration verification standard recoveries were within ±15% with exception of tetrachloro-m-xylene (+16%) and dibutylchlorendate (+19%) in CCV#2. All PCB CCV recoveries were within ±15% with exception of CCV#3 (-15.2%). Sample 97C05037 was analyzed between CCV#3 and CCV#4 for PCBs. All CCV#4 recoveries are in control.

NC/CAR: No Non-conformance/Corrective Action Reports were required for this set.

Sample Calculation: Analyte concentrations in sample extracts were determined by interpolation from quadratic regression of standard response versus concentration. Final concentration if ug/kilogram was determined from the equation

mg/L mL

$$C_S \quad \frac{C_E \quad V_E \quad DF}{V_S}$$

Kg

where C_S = Analyte concentration in sample (ug/kilogram)

C_E = Analyte concentration in extract (~~mg~~/mL) → ug/mL ?

V_E = Final volume of extract (mL)

DF = Dilution factor

V_S = Initial aliquot of sample taken for preparation (Kilogram)

Miscellaneous Comments: Sample identification is as follows:

Chromatogram of 1:1	DCL Sample ID	dilutions for	RFW Sample ID	DCL Sample ID	1:1	RFW Sample ID	dilutions for
ok	97C05020	48,54,60	MMMSS1	97C05030	~~ok~~ NG	PPPSED(S)	all
ok	97C05021	48,54,60	MMMSED(D)	97C05031	ok	OOONS3	48,54,60
ok	97C05022	48,54,60	MMMNS3	97C05032	ok	OOOND1	~~48,54,60~~ —
ok	97C05023	—	MMMND2	97C05033	ok	OOONS1	48,54,60
ok	97C05024	54,60	MMMNS2	97C05034	ok	OOOND2	54,60
ok	97C05025	54,60	PPPNS2	97C05035	ok	OOONS2	48,54,60
NG —	97C05026 }	all but	PPPND2	97C05036	ok	OOOSD2	54,60
NG —	97C05027 }	1221,32	PPPND1	97C05037	ok	OOOSED(D)	—
ok	97C05028	48,54,60	PPPNS1	97C05038	ok	OOOSED(S)	~~48~~,54,60
ok	97C05029	~~54~~,60	PPPSED(D)	97C05039	ok	OOOSS1	54,60

1:1 should be used to report results for all PCBs except ~~AR1016, 1221, 1232, 1242~~ noted above.

December 5, 1997

Scott B. Saulls, DCL Project Manager

0006

TITLE DATACHEM LABORATORIES – GC – PESTICIDE ANALYSIS

Project No. 3416

Book No.

DATA CHEM LABORATORIES

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From Page No.

Customer: Ray F. Weston

Sample(s): 97C-0429-04 & 97C-0426-01

Analyst: J. Chris Taylor

Method: 8080A Run Time: 52 hrs

DATACHEM LABORATORIES GC-PESTICIDE ANALYSIS
INJECTION LOGBOOK FOR GC ECD/18

Sequence File = DISK:[TAYLORC]5997316.SEQ;6 Data Directory = DISK:[T

Seq#	Rep#	Sample Name / Sample Notes	Data Filename	Acquisition Time
1	1	PRIME	5997316001.RAW;1	12-NOV-1997 10:40:24
2	1	PRIME	5997316002.RAW;1	12-NOV-1997 11:32:34
3	1	PCB221_2.0 138-WS-27569-1	5997316003.RAW;1	12-NOV-1997 13:15:42
4	1	PCB232_2.0 138-WS-27570-1	5997316004.RAW;1	12-NOV-1997 15:57:26
5	1	PCB242_2.0 138-WS-27571-1	5997316005.RAW;1	12-NOV-1997 17:52:23
6	1	PCB248_2.0 138-WS-27572-1	5997316006.RAW;1	12-NOV-1997 18:29:45
7	1	PCB254_2.0 138-WS-27591-1	5997316007.RAW;1	12-NOV-1997 19:07:10
8	1	$1660_2.0 138-WS-27590-1	5997316008.RAW;1	12-NOV-1997 19:44:14
9	1	$1660_1.0 138-WS-27590-2	5997316009.RAW;1	12-NOV-1997 20:21:40
10	1	$1660_.20 138-WS-27590-3	5997316010.RAW;1	12-NOV-1997 20:59:03
11	1	$1660_.10 138-WS-27590-4	5997316011.RAW;1	12-NOV-1997 21:36:06
12	1	$1660_.02 138-WS-27588-1	5997316012.RAW;1	12-NOV-1997 22:13:27
13	1	ICV_1660_1.0 138-WS-27589-1	5997316013.RAW;1	12-NOV-1997 22:50:53
23	1	CCV1660_1.0 138-WS-27590-2	5997316023.RAW;1	13-NOV-1997 05:04:51
24		~~BL-142021-1~~ ~~97C-0429-04~~	5997316024.RAW;1	13-NOV-1997 05:42:14
25	1	QC-142021-1 ~~97C-0429-04~~	5997316025.RAW;1	13-NOV-1997 06:19:39
26	1	97C05082 97C-0429-04	5997316026.RAW;1	13-NOV-1997 06:56:58
27	1	97C05021 97C-0426-01	5997316027.RAW;1	13-NOV-1997 07:34:21
28	1	BL-142009-1 97C-0426-01	5997316028.RAW;1	13-NOV-1997 09:00:28
29	1	QC-142009-1 97C-0426-01	5997316029.RAW;1	13-NOV-1997 09:37:52
30	1	97C05020 97C-0426-01	5997316030.RAW;1	13-NOV-1997 10:15:13
31	1	97C05022 97C-0426-01	5997316031.RAW;1	13-NOV-1997 10:52:36
32	1	97C05023 97C-0426-01	5997316032.RAW;1	13-NOV-1997 11:29:55
33	1	97C05024 97C-0426-01	5997316033.RAW;1	13-NOV-1997 12:07:18
34	1	CCV1660_1.0 138-WS-27590-2	5997316034.RAW;1	13-NOV-1997 12:44:39
35	1	97C05025 97C-0426-01	5997316035.RAW;1	13-NOV-1997 13:22:03
36	1	97C05026 97C-0426-01	5997316036.RAW;1	13-NOV-1997 13:59:24
37	1	97C05027 97C-0426-01	5997316037.RAW;1	13-NOV-1997 14:36:45
38	1	97C05028 97C-0426-01	5997316038.RAW;1	13-NOV-1997 15:14:06
39	1	97C05029 97C-0426-01	5997316039.RAW;1	13-NOV-1997 15:51:32
40	1	97C05030 97C-0426-01	5997316040.RAW;1	13-NOV-1997 16:28:54
41	1	97C05031 97C-0426-01	5997316041.RAW;1	13-NOV-1997 17:06:19
42	1	97C05033 97C-0426-01	5997316042.RAW;1	13-NOV-1997 17:43:37
43	1	97C05033MS 97C-0426-01	5997316043.RAW;1	13-NOV-1997 18:21:00
44	1	97C05033MSD 97C-0426-01	5997316044.RAW;1	13-NOV-1997 18:58:18
	1	CCV1660_1.0 138-WS-27590-2	5997316045.RAW;1	13-NOV-1997 19:35:42
46	1	97C05032 97C-0426-01	5997316046.RAW;1	13-NOV-1997 20:12:57
47	1	97C05034 97C-0426-01	5997316047.RAW;1	13-NOV-1997 20:50:19
48	1	97C05035 97C-0426-01	5997316048.RAW;1	13-NOV-1997 21:27:35
49	1	97C05036 97C-0426-01	5997316049.RAW;1	13-NOV-1997 22:05:01
50	1	97C05037 97C-0426-01	5997316050.RAW;1	13-NOV-1997 22:42:24
51	1	97C05038 97C-0426-01	5997316051.RAW;1	13-NOV-1997 23:19:48
52	1	97C05039 97C-0426-01	5997316052.RAW;1	13-NOV-1997 23:57:10
53	1	CCV1660_1.0 138-WS-27590-2	5997316053.RAW;1	14-NOV-1997 00:34:33
54	1	PRIME	5997316054.RAW;1	15-NOV-1997 13:08:53
55	1	CCV1660_1.0 138-WS-27590-2	5997316055.RAW;1	15-NOV-1997 13:46:17
56	1	$1254_2.0 138-WS-27591	5997316056.RAW;1	15-NOV-1997 14:23:39
57	1	$1254_1.0 138-WS-27591	5997316057.RAW;1	15-NOV-1997 15:01:05
58	1	$1254_0.10 138-WS-27591	5997316059.RAW;1	15-NOV-1997 17:51:01
60	1	$1254_0.20 138-WS-27591	5997316060.RAW;1	15-NOV-1997 18:28:20
61	1	$1254_0.02 138-WS-27591	5997316061.RAW;1	15-NOV-1997 19:05:38
62	1	ICV1254_1.0	5997316062.RAW;1	15-NOV-1997 19:43:06
63	1	97C05021 X50 97C-0426-01	5997316063.RAW;1	15-NOV-1997 20:20:30
64	1	97C05020 X50 97C-0426-01	5997316064.RAW;1	15-NOV-1997 20:57:54
65	1	97C05022 X50 97C-0426-01	5997316065.RAW;1	15-NOV-1997 21:35:13
66	1	97C05024 X50 97C-0426-01	5997316066.RAW;1	15-NOV-1997 22:12:36
67	1	97C05025 X50 97C-0426-01	5997316067.RAW;1	15-NOV-1997 22:49:57
68	1	97C05026 X2000 97C-0426-01	5997316068.RAW;1	15-NOV-1997 23:27:23
69	1	97C05027 X200 97C-0426-01	5997316069.RAW;1	16-NOV-1997 00:04:44
70	1	97C05028 X200 97C-0426-01	5997316070.RAW;1	16-NOV-1997 00:42:06
71	1	97C05029 X10 97C-0426-01	5997316071.RAW;1	16-NOV-1997 01:19:26
72	1	97C05030 X50 97C-0426-01	5997316072.RAW;1	16-NOV-1997 01:56:49
	1	CCV1660_1.0 138-WS-27590-2	5997316073.RAW;1	16-NOV-1997 02:34:10
74	1	97C05031 X500 97C-0426-01	5997316074.RAW;1	16-NOV-1997 03:11:34
75	1	97C05033 X2000 97C-0426-01	5997316075.RAW;1	16-NOV-1997 03:48:55
76	1	97C05033MS X2000 97C-0426-01	5997316076.RAW;1	16-NOV-1997 04:26:17
77	1	97C05033MSD X2000 97C-0426-01	5997316077.RAW;1	16-NOV-1997 05:03:38
78	1	97C05032 X5 97C-0426-01	5997316078.RAW;1	16-NOV-1997 05:41:01
79	1	97C05034 X500 97C-0426-01	5997316079.RAW;1	16-NOV-1997 06:18:22
80	1	97C05035 X100 97C-0426-01	5997316080.RAW;1	16-NOV-1997 06:55:43
81	1	97C05036 X100 97C-0426-01	5997316081.RAW;1	16-NOV-1997 07:33:02
82	1	97C05038 X100 97C-0426-01	5997316082.RAW;1	16-NOV-1997 08:10:25
83	1	97C05039 X100 97C-0426-01	5997316083.RAW;1	16-NOV-1997 08:47:46
84	1	CCV1660_1.0 138-WS-27590-2	5997316084.RAW;1	16-NOV-1997 09:25:08

AR1260 2 pks

gup

gup

1 peak AR1016

1 peak AR1016

column: DB-608

To Page No.

Witnessed & Understood by me,	Date	Invented by NOT APPLICABLE	Date
Lawrence E. Smith	11/18/97	Recorded by	11/18/97

CONC. VERIFICATION BY QUADRATIC MODEL FOR AR1254

	AR1254-1		AR1254-2		AR1254-3		AR1254-4		AR1254-5		TOTAL CONC.			FINAL CONC
	Y	CONC.	Y	CONC.	Y	CONC.	Y	CONC.	Y	CONC.	in extract	DF	%M	ug/Kg
97C05023	38973	0.129	23956	0.183	17548	0.143	22922	0.106	13031	0.098	0.660	1	32.1	324
BLANK		-0.001		0.000		0.000		0.000		0.001	0.001	1	0	0
QC-142009-1		-0.001		0.000		0.000		0.000		0.001	0.001	1	0	0
97C05037	25205	0.081	8267	0.060	4917	0.038	8306	0.037	4536	0.033	0.249	1	17.9	101
97C05021	31609	0.103	20004	0.151	10602	0.083	12298	0.056	8503	0.063	0.455	50	39.8	12603
97C05020	29769	0.097	15318	0.113	8680	0.067	12433	0.056	7311	0.054	0.388	50	63.5	17695
97C05022	32137	0.105	16822	0.125	9488	0.074	13759	0.062	8640	0.064	0.430	50	45.7	13207
97C05024	17587	0.056	9331	0.068	5021	0.038	7287	0.033	3768	0.028	0.222	50	44.3	6648
97C05025	30178	0.098	16383	0.122	7039	0.054	11848	0.053	5619	0.041	0.369	50	38.9	10062
97C05026	18916	0.060	11360	0.083	7736	0.060	12046	0.054	6267	0.046	0.303	2000	57.3	473529
97C05027	29932	0.097	14969	0.111	6067	0.047	8984	0.040	3641	0.027	0.322	200	34	32497
97C05028	10636	0.033	5697	0.041	2609	0.020	4052	0.018	1977	0.015	0.127	200	36.3	13280
97C05029	15481	0.049	7553	0.055	4537	0.035	6075	0.027	3326	0.025	0.190	10	21.9	810
97C05030	11302	0.035	5085	0.037	3352	0.025	4469	0.020	1967	0.015	0.132	50	40.5	3700
97C05031	12497	0.039	8151	0.059	3960	0.030	7165	0.032	3685	0.027	0.187	500	36.6	49266
97C05033	6625	0.020	4394	0.032	2353	0.018	4098	0.018	2203	0.017	0.105	2000	36.7	110100
97C05033MS	3754	0.011	1750	0.013	859	0.006	1585	0.007	844	0.007	0.045	2000	36.7	46983
97C05033MSD	6586	0.020	4308	0.031	2276	0.017	4072	0.018	2036	0.015	0.102	2000	36.7	107331
97C05032	26974	0.087	19145	0.144	8886	0.069	16965	0.077	7782	0.057	0.435	5	24.9	965
97C05034	16283	0.051	9910	0.072	5181	0.040	8964	0.040	4652	0.034	0.237	500	43	69436
97C05035	20280	0.065	10738	0.078	4960	0.038	8079	0.036	3808	0.028	0.245	100	34.4	12450
97C05036	15991	0.050	9819	0.071	3006	0.023	4966	0.022	2437	0.018	0.185	100	32.6	9149
97C05038	14412	0.045	6393	0.046	3910	0.030	5314	0.024	3003	0.022	0.167	100	44.5	10036
97C05039	16539	0.052	8484	0.061	4779	0.036	6738	0.030	3228	0.024	0.204	100	52	14179

F.V.= 10 mL

CONC.=(-B+SQRT(B^2-4AC))/(2B) in ug/mL in extract

YM 1/20/98

CONC. VERIFICATION BY QUADRATIC MODEL

SDG MMMND2

	TCMX				DBC			
	Y	CONC.	%R	DF	Y	CONC.	%R	
97C05021	48986	0.03700	74	1	308325	0.251	503	
97C05020	82532	0.06243	125	1	333878	0.270	540	
97C05024	107999	0.08180	164	1	261295	0.216	432	
97C05025	97271	0.07363	147	1	398272	0.316	633	
97C05027	102067	0.07728	155	1	937560	0.659	1318	
97C05029	88586	0.06703	134	1	69239	0.062	124	
97C05030	81816	0.06189	124	1	146066	0.126	252	
97C05032	82554	0.06245	125	1	60124	0.054	109	
97C05035	81666	0.06177	124	1	399459	0.317	634	
97C05036	102703	0.07776	156	1	509981	0.393	787	
97C05038	80919	0.06120	122	1	302063	0.247	493	
97C05022				1	950257	0.666 ~~#NUM!~~	~~#NUM!~~	1332
97C05026			0.656	1	932294	~~#NUM!~~	~~#NUM!~~	1312
97C05028				1	438138	0.556	1111	
97C05031			0.678	1	970601	~~#NUM!~~	#NUM!	1356
97C05033			0.667	1	950716	~~#NUM!~~	#NUM!	1334
97C05033ms			0.680	1	974429	~~#NUM!~~	#NUM!	1360
97C05033msd			0.666	1	950257	~~#NUM!~~	#NUM!	1332
97C05034			0.677	1	969549	~~#NUM!~~	#NUM!	1354
97C05039				1	298911	0.301	603	

$a = 467805$

$b = 1116940$

$c = -1863.04$

$c' = c - Y$

$$DBC = \frac{-b \pm \sqrt{b^2 - 4ac'}}{2a}$$

$$= \frac{-1116940 + \sqrt{\overset{1.247554964E12}{(1116940)^2} - \overset{1871220}{4 \times 467805(-1863.04 - Y)}}}{2 \times 467805 = 935610}$$

CONC. VERIFICATION BY QUADRATIC MODEL

	TCMX				DBC		
	Y	CONC.	%R	DF	Y	CONC.	%R
97C05023	120774	0.09153	183	1	66003	0.059	119
BLANK	98551	0.07461	149	1	44284	0.041	81
QC-142009-1	100175	0.07584	152	1	99860	0.088	176
97C05037	84079	0.06360	127	1	34785	0.032	65
97C05021	1513	0.00118	118	50	8588	0.009	932
97C05020	1342	0.00105	105	50	4524	0.006	570
97C05022	* ~~1860~~	~~0.00144~~	~~144~~	50	6413	0.007	739
97C05024	1492	0.00117	117	50	3153	0.004	448
97C05025	1361	0.00107	107	50	5433	0.007	651
97C05026	* ~~0~~	~~0.00004~~	~~171~~	~~2000~~	2548	0.004	15771
97C05027	421	0.00036	144	200	3608	0.005	1955
97C05028	* ~~592~~	~~0.00049~~	~~195~~	200	1991	0.003	1378
97C05029	8618	0.00653	131	10	5249	0.006	127
97C05030	1165	0.00092	92	50	1539	0.003	304
97C05031	* ~~179~~	~~0.00018~~	~~177~~	500	1930	0.003	3391
97C05033	* ~~0~~	~~0.00004~~	~~171~~	2000	980	0.003	10171
97C05033MS	* ~~0~~	~~0.00004~~	~~171~~	2000	439	0.002	8237
97C05033MSD	* ~~0~~	~~0.00004~~	~~171~~	2000	899	0.002	9881
97C05032	15064	0.01139	114	5	8072	0.009	89
97C05034	* ~~140~~	~~0.00015~~	~~148~~	500	1972	0.003	3429
97C05035	685	0.00056	112	100	3284	0.005	920
97C05036	621	0.00051	102	100	3050	0.004	878
97C05038	605	0.00050	100	100	1858	0.003	665
97C05039	* ~~712~~	~~0.00058~~	~~116~~	100	2730	0.004	821

A= -98248.5
B= 1329050
C= -56.8216
C'= C-Y

* see undiluted analysis

A= 467805
B= 1116940
C= -1863.04
C'= C-Y

CONC.=(-B+SQRT(B^2-4AC))/(2~~B~~A) in ug/mL in extract

21 97C05022 MMMNS3	82532	0.06243	125	1
97C05026PPPND2	90235	0.06828	137	1
97C05028PPPNS1	112675	0.08536	171	1
97C05031OOONS3	77603	0.05869	117	1
97C05033OOONS1	92660	0.07013	140	1
97C05033MS	72960	0.05516	110	1
97C05033MSD	112798	0.08545	171	1
97C05034OOOND2	96449	0.07301	146	1
97C05039OOOSS1	71158	0.05380	108	1

~~23~~
24
25
27
29
30
32
35
36
38

44 1/20/98

Samples contain AR1254 but CBCHK was checking AR1016 and AR1260.
⇒ meaningless.

P. 174 not in the ~~pkge~~ package

Calibration standards

5-peaks were chosen for identification and calibration. The conc. of each working solution was devided by 5 (peaks); calibration factor was calculated based on the new conc. for each chosen peak. When a specific Aroclor is detected in the sample, concs of chosen 5-peaks were calculated. Total concs of the 5 peaks ~~were~~ was calculated and reported.

~~Total~~. results in raw data are in ug/kg; not corrected by % moisture or dilution factor.

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Datapackage Table of Contents

Information pertaining to this datapackage is divided into the four categories listed below. A Case Narrative immediately precedes this Table of Contents and contains pertinent information about this datapackage.

Analytical Results ..... Yellow
Sample Tracking Documentation ..... Pink
Analytical Documentation ..... Blue
Raw Data ..... Green

♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦

Analytical Results

$$x = \frac{-4 + \sqrt{(4)^2 - 4 \times 1 \times 1}}{2 \times 1} = \frac{-4 + 3.46}{2} = -0.267$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2A}$$

24.87 kg

$$Y = Ax^2 + Bx + C$$

$$0 = ax^2 + Bx + C - y$$

$$\downarrow$$

$$C$$

$y = 95000 =$

TCMX $-98248.5\,x^2 + 1329050\,x + (-56.8216)$

$98551 =$

$149\% = \frac{24.83 \text{ ug/kg}}{16.7}$

surr = ~~25~~ 0.5 ug/ml

$13.5 \text{ ug/kg} = \frac{0 \times 10 \text{ mL}}{0.03 \text{ kg}}$

0.0405 ug/mL

$$98551 = (-98248.5)x^2 + 1329050x + (-56.8216)$$

$$-98248.5x^2 + 1329050x + (-98607.8) = 0$$

$$x = \frac{-1329050 \pm \sqrt{(1329050)^2 - 4 \times (-98248.5)(-98607.8)}}{2 \times (-98248.5)}$$

$$= \frac{-1329050 \pm \sqrt{1.766E12 - 3.875E10 = 1.72725E12}}{-196497}$$

$$= \frac{-1329050 \pm 1314249}{-196497}$$

if + $\Rightarrow$ $x = 0.0753$

if − $\Rightarrow$ $x = 13.45$

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2
PESTICIDES
SURROGATE RECOVERY

Report Number: 97-00003

Client Name: Roy F. Weston Site: NA

Project: NA SDG No.: MMMND2 DCL Set ID: 97C-0426-01

Matrix: SOIL Analysis Method: 8080A

Column(1): DB-608 ID: .53mm

		CLIENT SAMPLE NO.	DBC COLUMN 1 % REC	TCX COLUMN 1 % REC	TOTAL OUT	If 1:1 TCMX	If 1:1 DBC
20	01	MMMSS1 1:50	571.*	105.	1	125	540*
21	02	MMMSED(D) 1:50	930.*	118.	1	74	503*
22	03	MMMNS3 1:50	738.*	144 143.	1	125	*** 1332
23	04	MMMND2 1:1	119.	183.*	1		
24	05	MMMNS2 1:50	448.*	116	1	164*	432*
25	06	PPPNS2 1:50	654.*	107.	1	147	633*
26	07	PPPND2 1:2500	15800.*	0 137.	1	137	*** 1312
27	08	PPPND1 1:250	1960.*	144.	1	155	1318*
28	09	PPPNS1 1:200	1380.*	195 171.* 1:1	2	174*	1111*
29	10	PPPSED(D) 1:10	127.	131	0	134	124
30	11	PPPSED(S) 1:5	304.*	91.8	1	124	252*
31	12	OOONS3 1:500	3390.*	177 118.	1	117	*** 1356
32	13	OOOND1 1:5	88.8	114.	0	125	109
33	14	OOONS1 1:2000	10200.*	0 140. D	1	140	*** 1334
34	15	OOOND2 1:500	3430.*	148 146.	1	146	*** 1354
35	16	OOONS2 1:100	918.*	112.	1	124	634*
36	17	OOOSD2 1:100	876.*	102.	1	156	787*
37	18	OOOSED(D) 1:1	64.8	127.	0		
38	19	OOOSED(S) 1:100	666.*	99.6	1	122	493*
39	20	OOOSS1 1:100	822.*	116 107. 1:1	1	108	603*
33	21	OOONS1 MS 1:2000	8220.*	0 D 110.	1	110	*** 1360
33	22	OOONS1 MSD 1:2000	9900.*	0 D 171.*	2	171	*** 1332
	23	BL-142009-1	81.0	149.	0		
	24	QC-142009-1	176.*	152.	1		

QC LIMITS

DBC = Dibutylchlorendate (37.0-147.)
TCX = Tetrachloro-meta-Xylene (38.4-156.)

* Values outside of contract required QC limits.

FORM II CHROM

Datachem Data set # 97C-0426-01
SDG=MMMND2

Cornell-~~Dubilite~~ Dubilier Electronics (PCB)

20 soil collected 11/5/97 extracted 11/11/97 analyzed 11/13-16/97

Data Set # 97C-0429 SDG = LLLSED
97C-0429-4 SDG = LLLSED

AR1221 → AR1248 stds. injected 11/12/97 14:04 → 16:15

CCV1660 1.0 16/Nov/97 23:20 not submitted

peaks chosen for id & quant. were not labeled in quant reports and chromatograms.

11/18/97 23:44:42 seq. showed ICV1254-1.0 but quant rpt (pp. 255-257) showed $1254_1.0

11/19/97 00:25:00 seq: $1660_2.0 but quant. rpt (pp. 258-260) showed ~~At~~ $1254_0.20

Page 74 injection log: Starting Seq # 5 (11/18/97 23:04:21) sample name ≠ sample name in the quantitation reports and chromatogram (pp. 255)

RFP # 2226

~~AR1016 and AR1260 were reported present in MS/MSD but not native sample?~~

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FORM K
RUN LOG

Form RLIMS63-V1.0
11219714022276
Page 1

R97BN003

Run ID.....: R97BN003
Start Date.....: 15-NOV-1997 17:47

Method.....: 8082

Init Calib ID....: C97BN003
Init Calib Date..: 15-NOV-1997 17:47

Date Printed.....: 21-NOV-1997 14:02

Instrument Name..: GC/ECD-7
Column Name.....: DB-17
Detector Name....: ECD

Sample Name	Dilution	Date Acquired
$1254_2.0	1	15-NOV-1997 17:47
$1254_1.0	1	15-NOV-1997 18:27
$1254_0.20	1	15-NOV-1997 19:07
$1254_0.10	1	15-NOV-1997 19:48
$1254_.02	1	15-NOV-1997 20:28
ICV1254_1.0	1	15-NOV-1997 21:09
$1660_2.0	1	15-NOV-1997 21:49
$1660_1.0	1	15-NOV-1997 22:29
$1660_.20	1	15-NOV-1997 23:09
$1660_.10	1	15-NOV-1997 23:50
$1660_.02	1	16-NOV-1997 00:30
ICV_1660_1.0	1	16-NOV-1997 01:10
97C05000	500	16-NOV-1997 01:51
97C05001	10	16-NOV-1997 02:31
97C05002	10	16-NOV-1997 03:11
97C05004	10	16-NOV-1997 03:51
97C05005	10	16-NOV-1997 04:32
97C05007	10	16-NOV-1997 05:12
97C05008	10	16-NOV-1997 05:52
97C05009	25	16-NOV-1997 06:33
97C05010	100	16-NOV-1997 07:13
97C05011	25	16-NOV-1997 07:53
CCV1660_1.0	1	16-NOV-1997 08:34
97C05012	25	16-NOV-1997 09:14
97C05013	250	16-NOV-1997 09:54
97C05015	100	16-NOV-1997 10:34
97C05016	100	16-NOV-1997 11:15
97C05018	200	16-NOV-1997 11:55
97C05017	50	16-NOV-1997 12:35
97C05017MS	50	16-NOV-1997 13:15
97C05017MSD	50	16-NOV-1997 13:56
97C05019	200	16-NOV-1997 14:36
BL-142018-1	1	16-NOV-1997 15:16
CCV1660_1.0	1	16-NOV-1997 15:57
QC-142018-1	1	16-NOV-1997 16:37
97C05080	1	16-NOV-1997 17:17
97C05081	1	16-NOV-1997 17:57
BL-142015-1	1	16-NOV-1997 18:38
QC-142015-1	1	16-NOV-1997 19:18
97C05060	1	16-NOV-1997 19:58
97C05061	1	16-NOV-1997 20:39
97C05062	1	16-NOV-1997 21:19
97C05063	1	16-NOV-1997 21:59
97C05064	1	16-NOV-1997 22:39

ok
ok
ok
AR1260 1 pk out
for 1221, 1016, 1232, 1242 N/A

Sample Name	Dilution	Date Acquired
CCV1660_1.0	1	16-NOV-1997 23:20
97C05065	1	17-NOV-1997 00:00
97C05066	1	17-NOV-1997 00:40
97C05067	1	17-NOV-1997 01:21
97C05067MS	1	17-NOV-1997 02:01
97C05067MSD	1	17-NOV-1997 02:41
97C05068	1	17-NOV-1997 03:22
97C05069	1	17-NOV-1997 04:02
97C05070	1	17-NOV-1997 04:42
97C05071	1	17-NOV-1997 05:23
97C05072	1	17-NOV-1997 06:03
CCV1660_1.0	1	17-NOV-1997 06:43
97C05073	1	17-NOV-1997 07:23
97C05074	1	17-NOV-1997 08:04
97C05075	1	17-NOV-1997 08:44
97C05076	1	17-NOV-1997 09:24
97C05077	1	17-NOV-1997 10:05
97C05078	1	17-NOV-1997 10:45
97C05079	1	17-NOV-1997 11:25
CCV1660_1.0	1	17-NOV-1997 12:06

ok
NNPR

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FORM K
RUN LOG

Form RLIMS63-V1.0
11219712485398
Page 1

R97BN000

Run ID.....: R97BN000
Start Date.....: 18-NOV-1997 19:42

Method.....: 8082

Init Calib ID....: C97BN000
Init Calib Date..: 18-NOV-1997 23:04

Date Printed.....: 21-NOV-1997 12:48

Instrument Name..: GC/ECD-7
Column Name.....: DB-17
Detector Name....: ECD

Sample Name	Dilution	Date Acquired
PRIME	1	18-NOV-1997 19:42
PCB221_2.0	1	18-NOV-1997 20:22
PCB232_2.0	1	18-NOV-1997 21:03
PCB242_2.0	1	18-NOV-1997 21:43
PCB248_2.0	1	18-NOV-1997 22:24
$1254_2.0	1	18-NOV-1997 23:04
$1254_1.0	1	18-NOV-1997 23:44
$1254_0.20	1	19-NOV-1997 00:25
$1254_0.10	1	19-NOV-1997 01:05
$1254_.02	1	19-NOV-1997 01:45
ICV1254_1.0	1	19-NOV-1997 02:26
$1660_2.0	1	19-NOV-1997 03:06
$1660_1.0	1	19-NOV-1997 03:46
$1660_.20	1	19-NOV-1997 04:26
$1660_.10	1	19-NOV-1997 05:07
$1660_.02	1	19-NOV-1997 05:47
ICV_1660_1.0	1	19-NOV-1997 06:27
BL-142018-1	1	19-NOV-1997 07:08
QC-142018-1	1	19-NOV-1997 07:48
97C05080	100	19-NOV-1997 08:28
97C05081	100	19-NOV-1997 09:09
BL-142015-1	1	19-NOV-1997 09:49
QC-142015-1	1	19-NOV-1997 10:29
97C05060	5	19-NOV-1997 11:10
97C05061	200	19-NOV-1997 11:50
97C05062	10	19-NOV-1997 12:30
97C05063	10	19-NOV-1997 13:11
CCV1660_1.0	1	19-NOV-1997 13:51
97C05064	500	19-NOV-1997 14:31
97C05065	10	19-NOV-1997 15:11
97C05066	20	19-NOV-1997 15:52
97C05067	10	19-NOV-1997 16:32
97C05067MS	10	19-NOV-1997 17:12
97C05067MSD	10	19-NOV-1997 17:53
97C05068	10	19-NOV-1997 18:33
97C05069	10	19-NOV-1997 19:13
97C05070	10	19-NOV-1997 19:54
97C05071	100	19-NOV-1997 20:34
CCV1660_1.0	1	19-NOV-1997 21:14
97C05072	50	19-NOV-1997 21:55
97C05073	1	19-NOV-1997 22:35
PRIME	1	20-NOV-1997 13:28
CCV_1660_1.0	1	20-NOV-1997 14:09
97C05074	10	20-NOV-1997 14:49

ok

ok

1248
1254 + 1260 only
All pcbs.

TCMX out

Sample Name	Dilution	Date Acquired
97C05075	250	20-NOV-1997 15:29
97C05076	1	20-NOV-1997 16:10
97C05077	100	20-NOV-1997 16:50
97C05078	10	20-NOV-1997 17:30
97C05079	100	20-NOV-1997 18:11
CCV1660_1.0	1	20-NOV-1997 18:51

0038

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DATA CHEM
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Case Narrative

Method: 8080A
Analysis: Polychlorinated Biphenyls
Preparation SOP No.: OE-SW-3550
Analysis SOP No.: OE-SW-8080
Matrix: Soil

Client: Roy F. Weston
Project: EPA Region II START #G2
SDG No.: LLLSED
DCL Account: 3008
DCL Set ID: 97C-0429-01

General Set Information: There were two soil samples received in the set. The sample was batched with a method blank sample and a laboratory control sample for polychlorinated biphenyl analysis by EPA SW-846 Method 8080A.

Method Summary: Each sample was extracted into methylene chloride and concentrated in a K-D apparatus. A solvent exchange to hexane was performed and the final extract volume was adjusted to 10 mL. Analysis was performed by single column capillary gas chromatography with electron capture detector.

Sample Preparation: The samples were prepared according to the published procedures found in EPA SW-846 Method 3550C, modified to accommodate the sample matrix. Due to the appearance of the final extracts, prior to sample analysis, the sample extracts were washed with concentrated sulfuric acid to prevent instrument contamination and to aid in PCB peak pattern identification (EPA SW-846 Method 3665).

Holding Times: Holding time requirements were met for both sample preparation and analysis.

Dilutions: Both soil field samples were reanalyzed for PCB-1254 at 1:100 dilutions.

Method and Sample QC Data:

Method Blank (BL) : No target analytes were detected in the method blank.

Surrogates: All samples were spiked with 16.7 ug/kilogram of surrogate standards tetrachloro-m-xylene and dibutylchorendate. Even though the method only requires one surrogate to be within control limits, two are spiked. This is done since the retention time window for tetrachloro-m-xylene falls in the same region as PCB 1016 while the retention time window for dibutylchlorendate falls in the same region as PCB 1260. If high concentrations of either PCB are present in the sample, the remaining surrogate can still be effectively quantitated, maintaining acceptable quality control. All dibutylchloredate recoveries were within the method control limits. The tetrachloro-m-xylene surrogate recoveries were slightly high for the method blank, the QC and sample 97C05081[LLLSED(S)]. As such, since one of the two surrogates was within the method control limits, method acceptance criteria was met for the sample.

Laboratory Control Sample (QC): The QC was spiked with 167 ug/kilogram of PCB-1016 and PCB-1260. QC recoveries were within control limits.

MS/MSD Sample(s): No MS/MSD samples were required.

Instrument QC:

Initial Calibration: All calibration curves met method specification.

Initial Calibration Verification: All analyte recoveries were within ±25%.

Continuing Calibration Verification: All continuing calibration verification standard recoveries were within ±15%.

NC/CAR: No Non-conformance/Corrective Action Reports were required for this set.

Sample Calculation: Analyte concentrations in sample extracts were determined by interpolation from quadratic regression of standard response versus concentration. Final concentration if ug/kilogram was determined from the equation

$$C_S \quad \frac{C_E \quad V_E \quad DF}{V_S}$$

where	C_S	=	Analyte concentration in sample (ug/kilogram)
	C_E	=	Analyte concentration in extract (mg/mL)
	V_E	=	Final volume of extract (mL)
	DF	=	Dilution factor
	V_S	=	Initial aliquot of sample taken for preparation (Kilogram)

Miscellaneous Comments: None.

December 4, 1997

Scott B. Saulls, DCL Project Manager

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DATACHEM LABORATORIES GC-PESTICIDE ANALYSIS
INJECTION LOGBOOK FOR GC ECD-8 ECD-7

DataChem Lab

Customer: Roy F Weston
Set ID(s): 97C-0425-01, 97C-0429-01
Analyst: J. Chris Taylor
Method: 8080A Run Time:

Sequence File = DISK:[TAYLORC]8397316.SEQ;5 Date Directory = DISK:[T

Seq#	Rep#	Sample Name / Sample Notes	Data Filename	Acquisition Time
1	1	PRIME	8397316001.RAW;1	12-NOV-1997 13:20:38
2	1	PCB221 2.0 138-WS-27569-1	8397316002.RAW;1	12-NOV-1997 14:04:13
3	1	PCB232 2.0 138-WS-27570-1	8397316003.RAW;1	12-NOV-1997 14:47:50
4	1	PCB242 2.0 138-WS-27571-1	8397316004.RAW;1	12-NOV-1997 15:31:27
5	1	PCB248 2.0 138-WS-27572-1	8397316005.RAW;1	12-NOV-1997 16:15:09
6	1	PCB254 2.0 138-WS-27591-1	8397316006.RAW;1	12-NOV-1997 16:58:47
7	1	$1660_2.0 138-WS-27590-1	8397316007.RAW;1	12-NOV-1997 17:42:24
8	1	$1660_1.0 138-WS-27590-2	8397316008.RAW;1	12-NOV-1997 18:25:58
9	1	$1660_.20 138-WS-27590-3	8397316009.RAW;1	12-NOV-1997 19:09:37
10	1	$1660_.10 138-WS-27590-4	8397316010.RAW;1	12-NOV-1997 19:53:15
11	1	$1660_.02 138-WS-27588-1	8397316011.RAW;1	12-NOV-1997 20:36:54
12	1	ICV_1660_1.0 138-WS-27589-1	8397316012.RAW;1	12-NOV-1997 21:20:29
13	1	BL-142006-1 97C-0425-01	8397316013.RAW;1	12-NOV-1997 22:04:05
14	1	QC-142006-1 97C-0425-01	8397316014.RAW;1	12-NOV-1997 22:47:39
15	1	97C05000 97C-0425-01	8397316015.RAW;1	13-NOV-1997 09:22:24
16	1	97C05001 97C-0425-01	8397316016.RAW;1	13-NOV-1997 10:06:52
17	1	97C05002 97C-0425-01	8397316017.RAW;1	13-NOV-1997 10:51:37
18	1	97C05003 97C-0425-01	8397316018.RAW;1	13-NOV-1997 11:36:08
19	1	97C05004 97C-0425-01	8397316019.RAW;1	13-NOV-1997 12:20:28
20	1	97C05005 97C-0425-01	8397316020.RAW;1	13-NOV-1997 13:05:07
21	1	97C05006 97C-0425-01	8397316021.RAW;1	13-NOV-1997 19:59:57
22	1	97C05007 97C-0425-01	8397316022.RAW;1	13-NOV-1997 20:42:59
23	1	CCV1660_1.0 138-WS-27590-2	8397316023.RAW;1	13-NOV-1997 21:28:46
24	1	97C05008 97C-0425-01	8397316024.RAW;1	13-NOV-1997 22:11:53
25	1	97C05009 97C-0425-01	8397316025.RAW;1	13-NOV-1997 22:55:50
26	1	97C05010 97C-0425-01	8397316026.RAW;1	13-NOV-1997 23:39:23
27	1	97C05011 97C-0425-01	8397316027.RAW;1	14-NOV-1997 00:22:59
28	1	97C05012 97C-0425-01	8397316028.RAW;1	14-NOV-1997 01:07:00
29	1	97C05013 97C-0425-01	8397316029.RAW;1	14-NOV-1997 01:51:00
30	1	97C05014 97C-0425-01	8397316030.RAW;1	14-NOV-1997 02:34:45
31	1	97C05015 97C-0425-01	8397316031.RAW;1	14-NOV-1997 03:18:16
32	1	97C05016 97C-0425-01	8397316032.RAW;1	14-NOV-1997 04:02:11
33	1	97C05018 97C-0425-01	8397316033.RAW;1	14-NOV-1997 04:46:07
34	1	CCV1660_1.0 138-WS-27590-2	8397316034.RAW;1	14-NOV-1997 05:30:05
35	1	97C05017 97C-0425-01	8397316035.RAW;1	14-NOV-1997 06:13:18
36	1	97C05017MS 97C-0425-01	8397316036.RAW;1	14-NOV-1997 06:57:15
37	1	97C05017MSD 97C-0425-01	8397316037.RAW;1	14-NOV-1997 07:41:21
38	1	97C05019 97C-0425-01	8397316038.RAW;1	14-NOV-1997 08:25:23
39	1	CCV1660_1.0 138-WS-27590-2	8397316039.RAW;1	14-NOV-1997 09:08:55
40	1	PRIME	8397316040.RAW;1	15-NOV-1997 16:24:00
41	1	CCV1660_1.0 138-WS-27590-2	8397316041.RAW;1	15-NOV-1997 17:06:46
42	1	$1254_2.0 138-WS-27591	8397316042.RAW;1	15-NOV-1997 17:47:05
43	1	$1254_1.0 138-WS-27591	8397316043.RAW;1	15-NOV-1997 18:27:36
44	1	$1254_0.20 138-WS-27591	8397316044.RAW;1	15-NOV-1997 19:07:58
45	1	$1254_0.10 138-WS-27591	8397316045.RAW;1	15-NOV-1997 19:48:14
46	1	$1254_.02 138-WS-27591	8397316046.RAW;1	15-NOV-1997 20:28:32
47	1	ICV1254_1.0 138-WS-27533	8397316047.RAW;1	15-NOV-1997 21:09:04
48	1	$1660_2.0 138-WS-27590-1	8397316048.RAW;1	15-NOV-1997 21:49:23
49	1	$1660_1.0 138-WS-27590-2	8397316049.RAW;1	15-NOV-1997 22:29:41
50	1	$1660_.20 138-WS-27590-3	8397316050.RAW;1	15-NOV-1997 23:09:59
51	1	$1660_.10 138-WS-27590-4	8397316051.RAW;1	15-NOV-1997 23:50:14
52	1	$1660_.02 138-WS-27588-1	8397316052.RAW;1	16-NOV-1997 00:30:32
53	1	ICV_1660_1.0 138-WS-27589-1	8397316053.RAW;1	16-NOV-1997 01:10:50
54	1	97C05000 X500 97C-0425-01	8397316054.RAW;1	16-NOV-1997 01:51:09
55	1	97C05001 X10 97C-0425-01	8397316055.RAW;1	16-NOV-1997 02:31:26
56	1	97C05002 X10 97C-0425-01	8397316056.RAW;1	16-NOV-1997 03:11:44
57	1	97C05004 X10 97C-0425-01	8397316057.RAW;1	16-NOV-1997 03:51:58
58	1	97C05005 X10 97C-0425-01	8397316058.RAW;1	16-NOV-1997 04:32:18
59	1	97C05007 X10 97C-0425-01	8397316059.RAW;1	16-NOV-1997 05:12:36
60	1	97C05008 X10 97C-0425-01	8397316060.RAW;1	16-NOV-1997 05:52:54
61	1	97C05009 X25 97C-0425-01	8397316061.RAW;1	16-NOV-1997 06:33:08
62	1	97C05010 X100 97C-0425-01	8397316062.RAW;1	16-NOV-1997 07:13:26
63	1	97C05011 X25 97C-0425-01	8397316063.RAW;1	16-NOV-1997 07:53:42
64	1	CCV1660_1.0 138-WS-27590-2	8397316064.RAW;1	16-NOV-1997 08:34:02
65	1	97C05012 X25 97C-0425-01	8397316065.RAW;1	16-NOV-1997 09:14:17
66	1	97C05013 X250 97C-0425-01	8397316066.RAW;1	16-NOV-1997 09:54:33
67	1	97C05015 X100 97C-0425-01	8397316067.RAW;1	16-NOV-1997 10:34:47
68	1	97C05016 X100 97C-0425-01	8397316068.RAW;1	16-NOV-1997 11:15:06
69	1	97C05018 X200 97C-0425-01	8397316069.RAW;1	16-NOV-1997 11:55:22
70	1	97C05017 X50 97C-0425-01	8397316070.RAW;1	16-NOV-1997 12:35:39
71	1	97C05017MS X50 97C-0425-01	8397316071.RAW;1	16-NOV-1997 13:15:54
72	1	97C05017MSD X50 97C-0425-01	8397316072.RAW;1	16-NOV-1997 13:56:11
73	1	97C05019 X200 97C-0425-01	8397316073.RAW;1	16-NOV-1997 14:36:26
74	1	BL-142018-1 97C-0429-01	8397316074.RAW;1	16-NOV-1997 15:16:46
75	1	CCV1660_1.0 138-WS-27590-2	8397316075.RAW;1	16-NOV-1997 15:57:04
76	1	QC-142018-1 97C-0429-01	8397316076.RAW;1	16-NOV-1997 16:37:21
77	1	97C05080 97C-0429-01	8397316077.RAW;1	16-NOV-1997 17:17:35
78	1	97C05081 97C-0429-01	8397316078.RAW;1	16-NOV-1997 17:57:54
79	1	BL-142015-1 97C-0428-01	8397316079.RAW;1	16-NOV-1997 18:38:11
80	1	QC-142015-1 97C-0428-01	8397316080.RAW;1	16-NOV-1997 19:18:30
81	1	97C05060 97C-0428-01	8397316081.RAW;1	16-NOV-1997 19:58:46
82	1	97C05061 97C-0428-01	8397316082.RAW;1	16-NOV-1997 20:39:02
83	1	97C05062 97C-0428-01	8397316083.RAW;1	16-NOV-1997 21:19:18
84	1	97C05063 97C-0428-01	8397316084.RAW;1	16-NOV-1997 21:59:40
85	1	97C05064 97C-0428-01	8397316085.RAW;1	16-NOV-1997 22:39:58
86	1	CCV1660_1.0 138-WS-27590-2	8397316086.RAW;1	16-NOV-1997 23:20:16
87	1	97C05065 97C-0428-01	8397316087.RAW;1	17-NOV-1997 00:00:31
88	1	97C05066 97C-0428-01	8397316088.RAW;1	17-NOV-1997 00:40:51
89	1	97C05067 97C-0428-01	8397316089.RAW;1	17-NOV-1997 01:21:10
90	1	97C05067MS 97C-0428-01	8397316090.RAW;1	17-NOV-1997 02:01:31
91	1	97C05067MSD 97C-0428-01	8397316091.RAW;1	17-NOV-1997 02:41:48
92	1	97C05068 97C-0428-01	8397316092.RAW;1	17-NOV-1997 03:22:06
93	1	97C05069 97C-0428-01	8397316093.RAW;1	17-NOV-1997 04:02:23
94	1	97C05070 97C-0428-01	8397316094.RAW;1	17-NOV-1997 04:42:46
95	1	97C05071 97C-0428-01	8397316095.RAW;1	17-NOV-1997 05:23:04
96	1	97C05072 97C-0428-01	8397316096.RAW;1	17-NOV-1997 06:03:23
97	1	CCV1660_1.0 138-WS-27590-2	8397316097.RAW;1	17-NOV-1997 06:43:39
98	1	97C05073 97C-0428-01	8397316098.RAW;1	17-NOV-1997 07:23:59
99	1	97C05074 97C-0428-01	8397316099.RAW;1	17-NOV-1997 08:04:19
100	1	97C05075 97C-0428-01	8397316100.RAW;1	17-NOV-1997 08:44:40
101	1	97C05076 97C-0428-01	8397316101.RAW;1	17-NOV-1997 09:24:58
102	1	97C05077 97C-0428-01	8397316102.RAW;1	17-NOV-1997 10:05:16
103	1	97C05078 97C-0428-01	8397316103.RAW;1	17-NOV-1997 10:45:35
104	1	97C05079 97C-0428-01	8397316104.RAW;1	17-NOV-1997 11:25:59
105	1	CCV1660_1.0 138-WS-27590-2	8397316105.RAW;1	17-NOV-1997 12:06:19

Reviewed by: Lawrence E. Smith 11/19/97
Date

11/19/97
Date

0073

DATACHEM LABORATORIES GC-PESTICIDE ANALYSIS
INJECTION LOGBOOK FOR GC ECD-7

DataChem Laboratories

Customer: GRW & Weston
Set ID(s): 97C-0429-01 & 97C-0428-01 column: DB-17
Analyst: J Lewis Taylor
Page 150 Book A 123
Method: 8080 Run Time: ____

Sequence File = DISK:[TAYLORC]8397322R.SEQ;5 Data Directory = DISK:[

Seq#	Rep#	Sample Name / Sample Notes	Data Filename	Acquisition Time
0	1	PRIME	8397322000.RAW;1	18-NOV-1997 19:42:45
1	1	PCB221 1.0 / 138-WS-27569-1	8397322001.RAW;1	18-NOV-1997 20:22:56
2	1	PCB232 1.0 / 138-WS-27570-1	8397322002.RAW;1	18-NOV-1997 21:03:22
3	1	PCB242 1.0 / 138-WS-27571-1	8397322003.RAW;1	18-NOV-1997 21:43:40
4	1	PCB248 1.0 / 138-WS-27572-1	8397322004.RAW;1	18-NOV-1997 22:24:02
1254-2.0	1	S1254 0.2 / 138-WS-27591	8397322005.RAW;1	18-NOV-1997 23:04:21
1254-1.0	1	ICV1254 1.0 / 138-WS-27591	8397322006.RAW;1	18-NOV-1997 23:44:42
1254-0.2	1	S1660-2.0 / 138-WS-27591	8397322007.RAW;1	19-NOV-1997 00:25:00
1254-0.1	1	S1660-1.0 / 138-WS-27591	8397322008.RAW;1	19-NOV-1997 01:05:19
1254-0.02	1	S1660-.20 / 138-WS-27591	8397322009.RAW;1	19-NOV-1997 01:45:40
JCV1254 10.0	1	S1660-.10 / 138-WS-27533	8397322010.RAW;1	19-NOV-1997 02:26:02
1660-2.011	1	S1660-.02 / 138-WS-27590-1	8397322011.RAW;1	19-NOV-1997 03:06:20
1660-1.012	1	ICV 1660 1.0 / 138-WS-27590-2	8397322012.RAW;1	19-NOV-1997 03:46:39
1660-0.23	1	BL-142018-1 / 138-WS-27590-3	8397322013.RAW;1	19-NOV-1997 04:26:58
1660-0.14	1	QC-142018-1 / 138-WS-27590-4	8397322014.RAW;1	19-NOV-1997 05:07:19
1660-0.08	1	97C05080 X100 / 138-WS-27588-1	8397322015.RAW;1	19-NOV-1997 05:47:39
ICV1660 1.0	1	97C05081 X100 / 138-WS-27589-1	8397322016.RAW;1	19-NOV-1997 06:27:58
BL-142018	1	BL-142015-1 / 97C-0429-01	8397322017.RAW;1	19-NOV-1997 07:08:17
QC-142018	1	QC-142015-1 / 97C-0429-01	8397322018.RAW;1	19-NOV-1997 07:48:37
97C05080	1	97C05060 X5 / 97C-0429-01	8397322019.RAW;1	19-NOV-1997 08:28:53
97C05081	1	97C05061 X200 / 97C-0429-01	8397322020.RAW;1	19-NOV-1997 09:09:16
21	1	97C05062 X10 / 97C-0428-01	8397322021.RAW;1	19-NOV-1997 09:49:33
22	1	97C05063 X10 / 97C-0428-01	8397322022.RAW;1	19-NOV-1997 10:29:53
23	1	CCV1660 1.0 / 97C-0428-01	8397322023.RAW;1	19-NOV-1997 11:10:09
24	1	97C05064 X500 / 97C-0428-01	8397322024.RAW;1	19-NOV-1997 11:50:28
25	1	97C05065 X10 / 97C-0428-01	8397322025.RAW;1	19-NOV-1997 12:30:48
26	1	97C05066 X20 / 97C-0428-01	8397322026.RAW;1	19-NOV-1997 13:11:08
CCV1660		~~97C05067 X10~~ / 138-WS-27590-2	8397322027.RAW;1	19-NOV-1997 13:51:23
28	1	97C05067MS X10 / 97C-0428-01	8397322028.RAW;1	19-NOV-1997 14:31:42
29	1	97C05067MSD X10 / 97C-0428-01	8397322029.RAW;1	19-NOV-1997 15:11:59
30	1	97C05068 X10 / 97C-0428-01	8397322030.RAW;1	19-NOV-1997 15:52:22
31	1	97C05069 X10 / 97C-0428-01	8397322031.RAW;1	19-NOV-1997 16:32:39
32	1	97C05070 X10 / 97C-0428-01	8397322032.RAW;1	19-NOV-1997 17:12:58
33	1	97C05071 X100 / 97C-0428-01	8397322033.RAW;1	19-NOV-1997 17:53:14
34	1	CCV1660 1.0 / 97C-0428-01	8397322034.RAW;1	19-NOV-1997 18:33:34
35	1	97C05072 X50 / 97C-0428-01	8397322035.RAW;1	19-NOV-1997 19:13:52
36	1	97C05073 / 97C-0428-01	8397322036.RAW;1	19-NOV-1997 19:54:12
37	1	97C05074 X10 / 97C-0428-01	8397322037.RAW;1	19-NOV-1997 20:34:29
38	1	97C05075 X250 / 138-WS-27590-2	8397322038.RAW;1	19-NOV-1997 21:14:48
39	1	97C05076 / 97C-0428-01	8397322039.RAW;1	19-NOV-1997 21:55:04
40	1	97C05077 X100 / 97C-0428-01	8397322040.RAW;1	19-NOV-1997 22:35:26
41	1	PRIME	8397322041.RAW;1	20-NOV-1997 13:28:53
42	1	CCV_1660_1.0 / 138-WS-27590	8397322042.RAW;1	20-NOV-1997 14:09:13
43	1	97C05074 X10 / 97C-0428-01	8397322043.RAW;1	20-NOV-1997 14:49:31
44	1	97C05075 X250 / 97C-0428-01	8397322044.RAW;1	20-NOV-1997 15:29:48
45	1	97C05076 / 97C-0428-01	8397322045.RAW;1	20-NOV-1997 16:10:10
46	1	97C05077 X100 / 97C-0428-01	8397322046.RAW;1	20-NOV-1997 16:50:29
47	1	97C05078 X10 / 97C-0428-01	8397322047.RAW;1	20-NOV-1997 17:30:49
48	1	97C05079 X100 / 97C-0428-01	8397322048.RAW;1	20-NOV-1997 18:11:06
49	1	CCV1660_1.0 / 138-WS-27590-2	8397322049.RAW;1	20-NOV-1997 18:51:25

Pa

Recorded by: [signature] 11/21/97 Date
Reviewed by: [signature] 11/21/97 Date

CONC. VERIFICATION BY QUADRATIC MODEL

SDG LLLSED

	TCMX				DBC		
	Y	CONC.	%R	DF	Y	CONC.	%R
BLANK	7244	0.00784	16	1	57127	0.044	88
QC-142018-1	4678	0.00501	10	1	53816	0.041	83
97C05080 ok	61990	0.07000	140	1	52514	0.040	81
97C05081 NG	69369	0.07867	157	1	38309	0.030	59
BLANK	6565	0.00796	16	1	51923	0.044	88
QC-142018-1	3989	0.00525	11	1	42159	0.036	72
97C05080 D100	778	0.00189	379	100	6602	0.006	1252
97C05081 D100	978	0.00210	420	100	13893	0.012	~~2444~~ ⇒ all hits "J"

D yy

CONC.=(-B+SQRT(B^2-4AC))/(2A) in ug/mL in extract

CONC. VERIFICATION BY QUADRATIC MODEL FOR AR1254

F.V.= 10 mL
SDG# LLLSED

CONC.=(-B+SQRT(B^2-4AC))/(2A) in ug/mL in extract

	AR1254-1		AR1254-2		AR1254-3		AR1254-4		AR1254-5		TOTAL			FINAL
	Y	CONC.	Y	CONC.	Y	CONC.	Y	CONC.	Y	CONC.	CONC. in extract	DF	%M	CONC ug/Kg
ICV11/15	34744	0.200	62343	0.201	30910	0.202	48266	0.202	37075	0.203	1.008	1	0	336
BLANK		-0.002		-0.003		-0.002		-0.001		-0.001	-0.008	1	0	-3
QC-142018-1		-0.002		-0.003		-0.002		-0.001		-0.001	-0.008	1	0	-3
97C05080	8668	0.043	36195	0.108	23996	0.150	22679	0.088	15295	0.078	0.466	100	37.7	24941
97C05081	20047	0.106	42421	0.129	32689	0.216	21795	0.084	22733	0.119	0.654	100	24.3	28811
BLANK		0.000		-0.001		-0.002		0.000		0.001	-0.002	1	0	-1
QC-142018-1		0.000		-0.001		-0.002		0.000		0.001	-0.002	1	0	-1
97C05080 D100	8668	0.036	36195	0.086	23996	0.124	22679	0.072	15295	0.068	0.385	100	37.7	20625
97C05081 D100	20047	0.088	42421	0.103	32689	0.178	21795	0.069	22733	0.102	0.540	100	24.3	23771

F.V.= 10 mL

SDG# LLLED	AR1260-1		AR1260-2		AR1260-3		AR1260-4		AR1260-5		TOTAL CONC.			FINAL CONC.
	Y	CONC.	Y	CONC.	Y	CONC.	Y	CONC.	Y	CONC.	in extract	DF	%M	ug/Kg
CCV11/16 0834	79000	0.190	43516	0.194	50924	0.188	106049	0.188	43737	0.192	0.952	1	17.9	386
CCV11/16 1557	91121	0.227	50765	0.232	57102	0.217	120660	0.221	49836	0.224	1.120	1	17.9	455
CCV11/16 2320		0.000		0.000		-0.001		-0.001		0.000	-0.002	1	17.9	-1
BLANK		0.000		0.000		-0.001		-0.001		0.000	-0.002	1	17.9	-1
QC-142018	37507	0.082	20633	0.086	26864	0.090	53331	0.085	21053	0.087	0.430	1	0	143
BLANK		-0.001		0.000		-0.001		-0.002		0.000	-0.004	1	0	-1
QC-142018	31608	0.077	17129	0.079	23661	0.088	46095	0.081	17656	0.079	0.405	1	0	135
97C05080 D100	4732	0.010	4997	0.022	61900	0.276	41803	0.073	10537	0.046	0.427	100	37.7	22866
97C05081 D100	6209	0.014	7105	0.032	68818	0.322	55356	0.099	14559	0.065	0.531	100	24.3	23401
CCV11/18 1351	78944	0.219	41329	0.211	51944	0.218	107992	0.220	43992	0.221	1.090	1	0	363

CONC.=(-B+SQRT(B^2-4AC))/(2A) in ug/mL in extract

DATA CHEM
LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BL-142018-1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: LLLSED
DCL Set ID: 97C-0429-01
Matrix: SOIL
DCL Sample ID: BL-142018-1
Sample wt/vol: 0.030 Kg
Reporting Basis: As Received
% Moisture:
Decanted:
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 12-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 15:16
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: 1.00
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	2.95	6.67	2.95	U
11104-28-2	Aroclor 1221	20.9	33.3	20.9	U
11141-16-5	Aroclor 1232	3.68	6.67	3.68	U
53469-21-9	Aroclor 1242	2.53	6.67	2.53	U
12672-29-6	Aroclor 1248	2.30	6.67	2.30	U
11097-69-1	Aroclor 1254	1.54	6.67	1.54	U
11096-82-5	Aroclor 1260	1.47	6.67	1.47	U

FORM I CHROM

DATA CHEM
LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

Report Number: 97-00005

CLIENT SAMPLE NO.
QC-142018-1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: LLLSED
DCL Set ID: 97C-0429-01
Matrix: SOIL
DCL Sample ID: QC-142018-1
Sample wt/vol: 0.030 Kg
Reporting Basis: As Received
% Moisture: ____
Decanted: __
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 12-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 16:37
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: 1.00
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	2.95	6.67	151.	
11096-82-5	Aroclor 1260	1.47	6.67	143.	

FORM I CHROM

DATA CHEM
LABORATORIES, INC.
A SORENSON COMPANY

2
PESTICIDES
SURROGATE RECOVERY

Client Name: Roy F. Weston Site: NA

Project: NA SDG No.: LLLSED DCL Set ID: 97C-0429-01

Matrix: SOIL Analysis Method: 8080A

Column(1): DB-17 ID: .25mm

	CLIENT SAMPLE NO.	DBC COLUMN 1 % REC	TCX COLUMN 1 % REC	TOTAL OUT
01	LLLSS2 ~~1:11~~ 1:1	80.6	140.	0
02	LLLSED(S) 1:100	244 ~~59.0~~	430* ~~157.*~~	1
03	BL-142018-1	87.7	15.7 *	1
04	QC-142018-1	82.6	10.0 *	1

QC LIMITS

DBC = Dibutylchlorendate (37.0-147.)
TCX = Tetrachloro-meta-Xylene (38.4-156.)

* Values outside of contract required QC limits.

FORM II CHROM

DATA CHEM
LABORATORIES, INC.
A SORENSON COMPANY

3-2
PESTICIDES
LCS and LCSD RECOVERY

Report Number: 97-00005

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: LLLSED
DCL Set ID: 97C-0429-01
Matrix: SOIL
Analysis Method: 8080A
DCL Sample No.: QC-142018-1

LCS
Concentration Units: ug/Kg

COMPOUND	TARGET CONCENTRATION	LCS CONCENTRATION	LCS % REC	REC QC LIMITS
Aroclor 1016	167.	151.	90.8	53.1-140.
Aroclor 1260	167.	143.	86.0	48.0-151.

RPD: 0 out of 0 outside limits.
Spike Recovery: 0 out of 2 outside limits.

FORM III CHROM-2

DATA CHEM
LABORATORIES, INC.
A SORENSON COMPANY

4
PESTICIDES
METHOD BLANK SUMMARY

Report Number: 97-00005

SAMPLE NO.

BL-142018-1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: LLLSED
DCL Set ID: 97C-0429-01
Matrix: SOIL
DCL Sample ID: BL-142018-1
Analysis Method: 8080A
Extraction Method: 3550C
Sulfur Cleanup: Y
Date Extracted: 12-Nov-1997 00:00
Column (1): DB-17
ID: .25mm
Date Analyzed (1): 16-Nov-1997 15:16
Instrument ID (1): GC/ECD-7

THIS METHOD BLANK APPLIES TO THE FOLLOWING FIELD SAMPLES AND LAB QC

	CLIENT SAMPLE NO.	DCL SAMPLE NO.	DATE ANALYZED COLUMN 1
01	LLLSS2	97C05080	19-Nov-1997 08:28
02	LLLSED(S)	97C05081	19-Nov-1997 09:09
03	QC-142018-1	QC-142018-1	16-Nov-1997 16:37

FORM IV CHROM

DATA CHEM
LABORATORIES, INC.
A SORENSON COMPANY

Case Narrative

Method:	8080A	**Client:**	Roy F. Weston
Analysis:	Polychlorinated Biphenyls	**Project:**	EPA Region II START #G2
Preparation SOP No.:	OE-SW-3510	**SDG No.:**	LLLSED
Analysis SOP No.:	OE-SW-8080	**DCL Account:**	3008
Matrix:	Water	**DCL Set ID:**	97C-0429-04

General Set Information: There was one water rinse blank sample received in this set. The sample was batched with a method blank and a laboratory control sample. The rinse blank sample, method blank sample and QC sample were analyzed for polychlorinated biphenyls by EPA SW-846 Method 8080A.

Method Summary: Each sample was extracted into methylene chloride and concentrated in a K-D apparatus. A solvent exchange to hexane was performed. Analysis was performed by single column capillary gas chromatography with electron capture detector.

Sample Preparation: The samples were prepared according to the published procedures found in EPA SW-846 Method 3510C, modified to accommodate the sample matrix.

Holding Times: Holding time requirements were met for both sample preparation and analysis.

Dilutions: No sample dilutions were required for analysis.

Method and Sample QC Data:

Method Blank (BL) : No target analytes were detected in the method blank.

Laboratory Control Sample (LCS): All LCS recoveries were within control limits.

MS/MSD Sample(s): MS/MSD analysis was not required.

Surrogates: All samples were spiked with tetrachloro-m-xylene and dibutylchlorendate surrogate standrards. Even though the method only requires one surrogate to be within control limits, two are spiked. To meet the method acceptance criteria, one of two surrogates must be within method control limits. All tetrachloro-m-xylene recoveries were within the method control limits. The dibutylchlorendate recoveries for the LCS was slightly above the performance control limit. As such, since one surrogate on all of the field and QC samples was within the method control limits, method acceptance criteria was met.

Instrument QC:

Initial Calibration: All calibration curves met method specification.

Initial Calibration Verification (ICV): All analyte recoveries were within ±25%.

Continuing Calibration Verification (CCV): All continuing calibration verification standards recoveries were within ±15% with exception of slightly high recoveris for the two surrogates in the end CCV (tetrachloro-m-xylene = +16%; dibutylchlorendate = +19%).

NC/CAR: No Non-conformance/Corrective Action Reports were required for this set.

Sample Calculation: Analyte concentrations in sample extracts were determined by interpolation from quadratic regression of standard response versus concentration. Final concentration if µg/liter was determined from the equation

$$C_S \quad \frac{C_E \quad V_E \quad DF}{V_S}$$

where C_S = Analyte concentration in sample (µg/liter)

C_E = Analyte concentration in extract (µg/mL)

V_E = Final volume of extract (mL)

DF = Dilution factor

V_S = Initial aliquot of sample taken for preparation (1 liter)

Miscellaneous Comments: None.

Scott B. Saulls December 4, 1997

Scott B. Saulls, DCL Project Manager

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

Datapackage Table of Contents

Information pertaining to this datapackage is divided into the four categories listed below. A Case Narrative immediately precedes this Table of Contents and contains pertinent information about this datapackage.

Analytical Results ..... Yellow
Sample Tracking Documentation ..... Pink
Analytical Documentation ..... Blue
Raw Data ..... Green

♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦

Analytical Results

DATA CHEM
LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

Report Number: 97-00006

CLIENT SAMPLE NO.

RB

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: LLLSED
DCL Set ID: 97C-0429-04
Matrix: WATER
DCL Sample ID: 97C05082
Sample wt/vol: 1.00 liter
Reporting Basis: As Received
% Moisture:
Decanted:
Date Received: 06-Nov-1997 00:00
Extraction Method: 3510C
Date Extracted: 09-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 13-Nov-1997 06:56
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: 1.00
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: N

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/liter	Q
12674-11-2	Aroclor 1016	0.0506	0.20	0.0506	U
11104-28-2	Aroclor 1221	0.0935	0.20	0.0935	U
11141-16-5	Aroclor 1232	0.0562	0.20	0.0562	U
53469-21-9	Aroclor 1242	0.0443	0.20	0.0443	U
12672-29-6	Aroclor 1248	0.0367	0.20	0.0367	U
11097-69-1	Aroclor 1254	0.00956	0.20	0.00956	U
11096-82-5	Aroclor 1260	0.0309	0.20	0.0309	U

FORM I CHROM

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

Report Number: 97-00006

CLIENT SAMPLE NO.

BL-142021-1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: LLLSED
DCL Set ID: 97C-0429-04
Matrix: WATER
DCL Sample ID: BL-142021-1
Sample wt/vol: 1.00 liter
Reporting Basis: As Received
% Moisture:
Decanted:
Date Received: 06-Nov-1997 00:00
Extraction Method: 3510C
Date Extracted: 09-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 13-Nov-1997 05:42
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: 1.00
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: N

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/liter	Q
12674-11-2	Aroclor 1016	0.0506	0.20	0.0506	U
11104-28-2	Aroclor 1221	0.0935	0.20	0.0935	U
11141-16-5	Aroclor 1232	0.0562	0.20	0.0562	U
53469-21-9	Aroclor 1242	0.0443	0.20	0.0443	U
12672-29-6	Aroclor 1248	0.0367	0.20	0.0367	U
11097-69-1	Aroclor 1254	0.00956	0.20	0.00956	U
11096-82-5	Aroclor 1260	0.0309	0.20	0.0309	U

FORM I CHROM

DATA CHEM
LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

Report Number: 97-00006

CLIENT SAMPLE NO.

QC-142021-1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: LLLSED
DCL Set ID: 97C-0429-04
Matrix: WATER
DCL Sample ID: QC-142021-1
Sample wt/vol: 1.00 liter
Reporting Basis: As Received
% Moisture:
Decanted:
Date Received: 06-Nov-1997 00:00
Extraction Method: 3510C
Date Extracted: 09-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 13-Nov-1997 06:19
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: 1.00
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: N

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/liter	Q
12674-11-2	Aroclor 1016	0.0506	0.20	6.11	
11096-82-5	Aroclor 1260	0.0309	0.20	6.05	

FORM I CHROM

TITLE DATACHEM LABORATORIES – GC – PESTICIDE ANALYSIS

Project No. 3416

Book No.

DATA CHEM

2

From Page No.

Customer: Ray F. Weston

Sample: 97C-0429-04 & 97C-0426-01

Analyst: J. Chris Taylor

Method: 8080A Run Time: 52 1/2 hrs

Sequence File = DISK:[TAYLORC]5997316.SEQ;6 Data Directory = DISK:[T

Seq#	Rep#	Sample Name / Sample Notes	Data Filename	Acquisition Time
1	1	PRIME	5997316001.RAW;1	12-NOV-1997 10:40:24
2	1	PRIME	5997316002.RAW;1	12-NOV-1997 11:32:34
3	1	PCB221_2.0 138-WS-27569-1	5997316003.RAW;1	12-NOV-1997 13:15:42
4	1	PCB232_2.0 138-WS-27570-1	5997316004.RAW;1	12-NOV-1997 15:57:26
5	1	PCB242_2.0 138-WS-27571-1	5997316005.RAW;1	12-NOV-1997 17:52:23
6	1	PCB248_2.0 138-WS-27572-1	5997316006.RAW;1	12-NOV-1997 18:29:45
7	1	PCB254_2.0 138-WS-27591-1	5997316007.RAW;1	12-NOV-1997 19:07:10
8	1	$1660_2.0 138-WS-27590-1	5997316008.RAW;1	12-NOV-1997 19:44:14
9	1	$1660_1.0 138-WS-27590-2	5997316009.RAW;1	12-NOV-1997 20:21:40
10	1	$1660_.20 138-WS-27590-3	5997316010.RAW;1	12-NOV-1997 20:59:03
11	1	$1660_.10 138-WS-27590-4	5997316011.RAW;1	12-NOV-1997 21:36:06
12	1	$1660_.02 138-WS-27588-1	5997316012.RAW;1	12-NOV-1997 22:13:27
13	1	ICV_1660_1.0 138-WS-27589-1	5997316013.RAW;1	12-NOV-1997 22:50:53
23	1	CCV1660_1.0 138-WS-27590-2 ok	5997316023.RAW;1	13-NOV-1997 05:04:51
24	1	BL-142021-1 97C-0429-04	5997316024.RAW;1	13-NOV-1997 05:42:14
25	1	QC-142021-1 97C-0429-04	5997316025.RAW;1	13-NOV-1997 06:19:39
26	1	97C05082 97C-0429-04	5997316026.RAW;1	13-NOV-1997 06:56:58
27	1	97C05021 97C-0426-01	5997316027.RAW;1	13-NOV-1997 07:34:21
28	1	BL-142009-1 97C-0426-01	5997316028.RAW;1	13-NOV-1997 09:00:28
29	1	QC-142009-1 97C-0426-01	5997316029.RAW;1	13-NOV-1997 09:37:52
30	1	97C05020 97C-0426-01	5997316030.RAW;1	13-NOV-1997 10:15:13
31	1	97C05022 97C-0426-01	5997316031.RAW;1	13-NOV-1997 10:52:36
32	1	97C05023 97C-0426-01	5997316032.RAW;1	13-NOV-1997 11:29:55
33	1	97C05024 97C-0426-01	5997316033.RAW;1	13-NOV-1997 12:07:18

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column: DB-608

TH 11/18/97

DATACHEM LABORATORIES GC-PESTICIDE ANALYSIS

INJECTION LOGBOOK FOR GC ECD/18

34 ok	1	CCV1660_1.0 138-WS-27590-2	5997316034.RAW;1	13-NOV-1997 12:44:39
35	1	97C05025 97C-0426-01	5997316035.RAW;1	13-NOV-1997 13:22:03
36	1	97C05026 97C-0426-01	5997316036.RAW;1	13-NOV-1997 13:59:24
37	1	97C05027 97C-0426-01	5997316037.RAW;1	13-NOV-1997 14:36:45
38	1	97C05028 97C-0426-01	5997316038.RAW;1	13-NOV-1997 15:14:06
39	1	97C05029 97C-0426-01	5997316039.RAW;1	13-NOV-1997 15:51:32
40	1	97C05030 97C-0426-01	5997316040.RAW;1	13-NOV-1997 16:28:54
41	1	97C05031 97C-0426-01	5997316041.RAW;1	13-NOV-1997 17:06:19
42	1	97C05033 97C-0426-01	5997316042.RAW;1	13-NOV-1997 17:43:37
43	1	97C05033MS 97C-0426-01	5997316043.RAW;1	13-NOV-1997 18:21:00
44	1	97C05033MSD 97C-0426-01	5997316044.RAW;1	13-NOV-1997 18:58:18
45	1	CCV1660_1.0 138-WS-27590-2	5997316045.RAW;1	13-NOV-1997 19:35:42
46	1	97C05032 97C-0426-01	5997316046.RAW;1	13-NOV-1997 20:12:57
47	1	97C05034 97C-0426-01	5997316047.RAW;1	13-NOV-1997 20:50:19
48	1	97C05035 97C-0426-01	5997316048.RAW;1	13-NOV-1997 21:27:35
49	1	97C05036 97C-0426-01	5997316049.RAW;1	13-NOV-1997 22:05:01
50	1	97C05037 97C-0426-01	5997316050.RAW;1	13-NOV-1997 22:42:24
51	1	97C05038 97C-0426-01	5997316051.RAW;1	13-NOV-1997 23:19:48
52	1	97C05039 97C-0426-01	5997316052.RAW;1	13-NOV-1997 23:57:10
53	1	CCV1660_1.0 138-WS-27590-2	5997316053.RAW;1	14-NOV-1997 00:34:33
54	1	PRIME	5997316054.RAW;1	15-NOV-1997 13:08:53
55	1	CCV1660_1.0 138-WS-27590-2	5997316055.RAW;1	15-NOV-1997 13:46:17
56	1	$1254_2.0 138-WS-27591	5997316056.RAW;1	15-NOV-1997 14:23:39
57	1	$1254_1.0 138-WS-27591	5997316057.RAW;1	15-NOV-1997 15:01:05

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59	1	$1254_0.10 138-WS-27591	5997316059.RAW;1	15-NOV-1997 17:51:01
60	1	$1254_0.20 138-WS-27591	5997316060.RAW;1	15-NOV-1997 18:28:20
61	1	$1254_0.02 138-WS-27591	5997316061.RAW;1	15-NOV-1997 19:05:38
62	1	ICV1254_1.0	5997316062.RAW;1	15-NOV-1997 19:43:06
63	1	97C05021 X50 97C-0426-01	5997316063.RAW;1	15-NOV-1997 20:20:30
64	1	97C05020 X50 97C-0426-01	5997316064.RAW;1	15-NOV-1997 20:57:54
65	1	97C05022 X50 97C-0426-01	5997316065.RAW;1	15-NOV-1997 21:35:13
66	1	97C05024 X50 97C-0426-01	5997316066.RAW;1	15-NOV-1997 22:12:36
67	1	97C05025 X50 97C-0426-01	5997316067.RAW;1	15-NOV-1997 22:49:57
68	1	97C05026 X2000 97C-0426-01	5997316068.RAW;1	15-NOV-1997 23:27:23
69	1	97C05027 X200 97C-0426-01	5997316069.RAW;1	16-NOV-1997 00:04:44
70	1	97C05028 X200 97C-0426-01	5997316070.RAW;1	16-NOV-1997 00:42:06
71	1	97C05029 X10 97C-0426-01	5997316071.RAW;1	16-NOV-1997 01:19:26
72	1	97C05030 X50 97C-0426-01	5997316072.RAW;1	16-NOV-1997 01:56:49
73	1	CCV1660_1.0 138-WS-27590-2	5997316073.RAW;1	16-NOV-1997 02:34:10
74	1	97C05031 X500 97C-0426-01	5997316074.RAW;1	16-NOV-1997 03:11:34
75	1	97C05033 X2000 97C-0426-01	5997316075.RAW;1	16-NOV-1997 03:48:55
76	1	97C05033MS X2000 97C-0426-01	5997316076.RAW;1	16-NOV-1997 04:26:17
77	1	97C05033MSD X2000 97C-0426-01	5997316077.RAW;1	16-NOV-1997 05:03:38
78	1	97C05032 X5 97C-0426-01	5997316078.RAW;1	16-NOV-1997 05:41:01
79	1	97C05034 X500 97C-0426-01	5997316079.RAW;1	16-NOV-1997 06:18:22
80	1	97C05035 X100 97C-0426-01	5997316080.RAW;1	16-NOV-1997 06:55:43
81	1	97C05036 X100 97C-0426-01	5997316081.RAW;1	16-NOV-1997 07:33:02
82	1	97C05038 X100 97C-0426-01	5997316082.RAW;1	16-NOV-1997 08:10:25

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83	1	97C05039 X100 97C-0426-01	5997316083.RAW;1	16-NOV-1997 08:47:46
84	1	CCV1660_1.0 138-WS-27590-2	5997316084.RAW;1	16-NOV-1997 09:25:08

TH 11/18/97

To Page No.

Witnessed & Understood by me,	Date	Invented by NOT APPLICABLE	Date	
Lawrence E. Smith	11/18/97	Recorded by	11/18/97	0402

DATA CHEM LABORATORIES
A SORENSON COMPANY

Client: Roy F. Weston	Project: EPA REGION II START #G2
DCL Account No: 3008	TDD#: 02-97-09-0015
DCL Set ID No.: 97C-0426	

	Page Nos. From	Page Nos. To	(Please Check:) Lab	(Please Check:) Client
1. Inventory Sheet (Do not number)			✓	___
2. Client Chain-of-Custody Records	1	3	✓	___
3. Polychlorinated Biphenyls (97C-0426-01)				
Case Narrative	4	6	✓	___
Analytical Forms	7	62	✓	___
Sample Tracking Documentation	63	71	✓	___
Analytical Documentation	72	151	✓	___
Raw Data	152	501	✓	___
Percent Solids	502	511	✓	___
4. Shipping/Receiving Documents				
Airbill (No. of Shipments: 1)	512	512	✓	___
Sample Log-In Sheet	513	513	✓	___
DCL Cooler Receipt Checklist	514	514	✓	___

5. Comments:

Completed by (DataChem Laboratories):

Crystal Saulls	Crystal Saulls / Document Control	12/09/97
(Signature)	(Print Name & Title)	(Date)

Audited by (Client):

(Signature)	(Print Name & Title)	(Date)

2226

PO No.: 87052

WESTON. MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-5116 Fax: 908-225-7037

1. Surface Water
2. Ground Water
3. Leachate
4. Rinsate
5. Soil/Sediment
6. Oil
7. Waste
8. Other (Specify)

1. HCl
2. HNO3
3. Na2SO4
4. H2SO4
5. Other (Specify)
6. Ice Only
N. Not Preserved
* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS VOA	ENA	PEST	PCBs	TAL	CN	RCRA ANALYSIS KEN	COR	REAC	OTHER
PPPSS2	11/5/97/1105	5	L	G	6										Total PCBs
MMMSED(S)	11/5/97/1510														
MMMNS1	11/5/97/1525														
MMMSS2	11/5/97/1515														
MMMSD2	11/5/97/1515														
MMMSS1	11/5/97/1515														
MMMSED(D)	11/5/97/1510														
MMMNS3	11/5/97/1525														
MMMND2	11/5/97/1535														
MMMNS2	11/5/97/1520														
PPPNS2 ~~MMM~~	11/5/97/1445														

Comments: Extra sample volume was given for MS/MSD sample # MMMNS1

Person Assuming Responsibility for Sample:	Time	Date (MM/DD/YY)
M. Mahato	1730	11/5/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	M. Mahato	1800	11/5/97	FEDEX	Shipment to Lab
	FEDEX	0900	11/6/97	[illegible]	

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

RI-P No.: 2226

PO No.: 87052

CHAIN OF CUSTODY RECORD

WESTON. MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-6116 Fax: 908-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSIS VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS CRN	COR	REAC	OTHER
PPPND2	11/5/97/1450	5	L	G	6										Total PCB's
PPPND1	11/5/97/1450														
PPPNS1	11/5/97/1415														
PPPSED(D)	11/5/97/1400														
PPPSED(S)	11/5/97/1400														
000NS3	11/5/97/1500														
000ND1	11/5/97/1510														
000NS1	11/5/97/1500														
000ND2	11/5/97/1500														
000NS2	11/5/97/1500														
000SD2	11/5/97/1410														

Comments: Extra sample volume was given for sample# 000NS1

Person Assuming Responsibility for Sample:	Time	Date (MM/DD/YY)
M. Malhotra	1730	11/5/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	M. Malhotra	1800	11/5/97	FEDEX	Shipment to Lab
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
	FEDEX	0900	11/6/97	[illegible]	
Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

REF NO.: 2226

PO No.: 87052

WESTON. MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019
Phone: 908-225-6116 Fax: 908-225-7037

1. Surface Water	1. HCl
2. Ground Water	2. HNO3
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II START
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, START Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #)	RAS ANALYSES VOA	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS KIN	COR	REAC	OTHER
000SED(D)	11/5/97/1405	5	L	G	6										Total PCBs
000SED(S)	11/5/97/1405														
000SS1	11/5/97/1407														
000SD1	11/5/97/1410														
000SS2	11/5/97/1415														
NNNSD1	11/5/97/1427														
NNNSS2	11/5/97/1430														
NNNSS1	11/5/97/1425														
NNNSED(D)	11/5/97/1420														
NNNSED(S)	11/5/97/1420														
NNNND1	11/5/97/1455														

Comments:

Person Assuming Responsibility for Sample: M. Mahnke — Time: 1730 — Date (MM/DD/YY): 11/5/97

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	M. Mahnke	1800	11/5/97	FEDEX	Shipment to Lab
	FEDEX	0900	11/6/97	[illegible]	

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

DATA CHEM
LABORATORIES, INC.
A SORENSON COMPANY

Case Narrative

Method:	8080A	**Client:**	Roy F. Weston
Analysis:	Polychlorinated Biphenyls	**Project:**	EPA Region II START #G2
Preparation SOP No.:	OE-SW-3550	**SDG No.:**	MMMND2
Analysis SOP No.:	OE-SW-8080	**DCL Account:**	3008
Matrix:	Soil	**DCL Set ID:**	97C-0426-01

General Set Information: There were twenty soil samples received in the set. The sample was batched with a method blank sample, a laboratory control sample, a matrix spike sample and a amtrix spike duplicate sample for polychlorinated biphenyl analysis by EPA SW-846 Method 8080A.

Method Summary: Each sample was extracted into methylene chloride and concentrated in a K-D apparatus. A solvent exchange to hexane was performed and the final extract volume was adjusted to 10 mL. Analysis was performed by single column capillary gas chromatography with electron capture detector.

Sample Preparation: The samples were prepared according to the published procedures found in EPA SW-846 Method 3550C, modified to accommodate the sample matrix. Due to the appearance of the final extracts, prior to sample analysis, the sample extracts were washed with concentrated sulfuric acid to prevent instrument contamination and to aid in PCB peak pattern identification (EPA SW-846 Method 3665) and sulfur cleaned with mercury (EPA SW-846 Method 3660A).

Holding Times: Holding time requirements were met for both sample preparation and analysis.

Dilutions: All samples were reanalyzed at dilutions with exception of the method blank sample, the laboratory control sample and field samples 97C05023 and 97C05037. Sample 97C05032 was reanalyzed at a 1:5 dilution. Sample 97C05029 was reanalyzed at a 1:10 dilution. Samples 97C05020, 97C05021, 97C05022, 97C05024, 97C050225 and 97C05030 were reanalyzed at 1:50 dilutions. Samples 97C05035, 97C05036, 97C05038 and 97C05039 were reanalyzed at 1:100 dilutions. Samples 97C05027 and 97C05028 were reanalyzed at 1:200 dilutions. Samples 97C05031 and 97C05034 were reanalyzed at 1:500 dilutions. Samples 97C05026, 97C05033, 97C05033MS and 97C05033MSD were reanalyzed at 1:2000 dilutions. All samples were initially analyzed at full strength. All tetrachloro-m-xylene surrogate recoveries are reported from the dilution analyses except samples 97C05022, 97C05023, 97C05026, 97C05028, 97C05031, 97C05033, 97C05033MS, 97C05033MSD, 97C05034, 97C05037 and 97C05039. All dibutylchlorendate surrogate recoveries are reported from the dilution analyses with exception of samples 97C05023 and 97C05037.

Method and Sample QC Data:

Method Blank (BL) : No target analytes were detected in the method blank.

Laboratory Control Sample (QC): The QC was spiked with 167 ug/kilogram of PCB-1016 and PCB-1260. QC recoveries were within control limits.

MS/MSD Sample(s): The matrix spike and matrix spike duplicate samples are prepared from sample 97C05033. Samples were spiked with 167 ug/kilogram of PCB-1016 and PCB-1260. Due to the high concentration of PCB-1254 in the parent sample, the spike samples required 1:2000 dilutions to effectively quantitate the PCBs. Spike recoveries were diluted out for both the MS and MSD samples. The relative percent difference between the two spike recoveries were outside of method performance control limits. Poor MS/MSD results are attributted to the sample matrix.

Surrogates: All samples were spiked with 16.7 ug/kilogram of surrogate standards tetrachloro-m-xylene and dibutylchorendate. Even though the method only requires one surrogate to be within control limits, two are spiked. This is done since the retention time window for tetrachloro-m-xylene falls in the same region as PCB 1016 while the retention time window for dibutylchlorendate falls in the same region as PCB 1260. If high concentrations of either PCB are present in the sample, the remaining surrogate can still be effectively quantitated, maintaining acceptable quality control. All tetrachloro-m-xylene recoveries were within the method performance control limits with exception of recoveries from samples 97C05023, 97C05028 and 97C05033MSD. The dibutylchorendate surrogate recovery for sample 97C05023 was within method performance control limits. Therefore, since one of the two surrogates was within the method control limits for all samples except 97C05028 and 97C05033MSD, method acceptance criteria was met for all samples except 97C05028 and 97C05033MSD.

Instrument QC:

Initial Calibration: All calibration curves met method specification.

Initial Calibration Verification: All analyte recoveries were within ±25%.

Continuing Calibration Verification: All surrogate continuing calibration verification standard recoveries were within ±15% with exception of tetrachloro-m-xylene (+16%) and dibutylchlorendate (+19%) in CCV#2. All PCB CCV recoveries were within ±15% with exception of CCV#3 (-15.2%). Sample 97C05037 was analyzed between CCV#3 and CCV#4 for PCBs. All CCV#4 recoveries are in control.

NC/CAR: No Non-conformance/Corrective Action Reports were required for this set.

Sample Calculation: Analyte concentrations in sample extracts were determined by interpolation from quadratic regression of standard response versus concentration. Final concentration if ug/kilogram was determined from the equation

$$C_S \quad \frac{C_E \quad V_E \quad DF}{V_S}$$

where C_S = Analyte concentration in sample (ug/kilogram)

C_E = Analyte concentration in extract (mg/mL)

V_E = Final volume of extract (mL)

DF = Dilution factor

V_S = Initial aliquot of sample taken for preparation (Kilogram)

Miscellaneous Comments: Sample identification is as follows:

DCL Sample ID	RFW Sample ID	DCL Sample ID	RFW Sample ID
97C05020	MMMSS1	97C05030	PPPSED(S)
97C05021	MMMSED(D)	97C05031	OOONS3
97C05022	MMMNS3	97C05032	OOOND1
97C05023	MMMND2	97C05033	OOONS1
97C05024	MMMNS2	97C05034	OOOND2
97C05025	PPPNS2	97C05035	OOONS2
97C05026	PPPND2	97C05036	OOOSD2
97C05027	PPPND1	97C05037	OOOSED(D)
97C05028	PPPNS1	97C05038	OOOSED(S)
97C05029	PPPSED(D)	97C05039	OOOSS1

December 5, 1997

Scott B. Saulls, DCL Project Manager

DATA CHEM
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A SORENSON COMPANY

Datapackage Table of Contents

Information pertaining to this datapackage is divided into the four categories listed below. A Case Narrative immediately precedes this Table of Contents and contains pertinent information about this datapackage.

Analytical Results ..... Yellow
Sample Tracking Documentation ..... Pink
Analytical Documentation ..... Blue
Raw Data ..... Green

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Analytical Results

Rev. 3/97

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

Report Number: 97-00003

CLIENT SAMPLE NO.

MMMSS1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05020
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 63.5
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 15-Nov-1997 20:57
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~50~~.0
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	8.1	18.	8.1	UD J
11104-28-2	Aroclor 1221	57.	91.	57.	UD
11141-16-5	Aroclor 1232	10.	18.	10.	UD
53469-21-9	Aroclor 1242	6.9	18.	6.9	UD
12672-29-6	Aroclor 1248	320 ~~6.3~~	900 ~~18.~~	320 ~~6.3~~	UD
11097-69-1	Aroclor 1254	210 ~~4.2~~	~~18.~~	18000	D NJ
11096-82-5	Aroclor 1260	200 ~~4.0~~	~~18.~~	200 ~~4.0~~	UD J

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0008

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

Report Number: 97-00003

CLIENT SAMPLE NO.

MMMSED(D)

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05021
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 39.8
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 15-Nov-1997 20:20
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~50.0~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	4.9	11.	4.9	UD
11104-28-2	Aroclor 1221	35.	55.	35.	UD
11141-16-5	Aroclor 1232	6.1	11.	6.1	UD
53469-21-9	Aroclor 1242	4.2	11.	4.2	UD
12672-29-6	Aroclor 1248	190 ~~3.8~~	550 ~~11.~~	190 ~~3.8~~	UD
11097-69-1	Aroclor 1254	130 ~~2.6~~	↓ ~~11.~~	13000	DN
11096-82-5	Aroclor 1260	120 ~~2.4~~	↓ ~~11.~~	120 ~~2.4~~	UD

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DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MMMNS3

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05022
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 45.7
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 15-Nov-1997 21:35
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~50.0~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	5.4	12.	5.4	UD
11104-28-2	Aroclor 1221	38.	61.	38.	UD
11141-16-5	Aroclor 1232	6.8	12.	6.8	UD
53469-21-9	Aroclor 1242	4.7	12.	4.7	UD
12672-29-6	Aroclor 1248	210 ~~4.2~~	600 ~~12.~~	210 ~~4.2~~	UD
11097-69-1	Aroclor 1254	140 ~~2.8~~	↓ ~~12.~~	13000	D N
11096-82-5	Aroclor 1260	↓ ~~2.7~~	↓ ~~12.~~	140 ~~2.7~~	UD

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0010

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MMMND2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05023
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 32.1
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 13-Nov-1997 11:29
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: 1.00
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	4.3	9.8	4.3	U
11104-28-2	Aroclor 1221	31.	49.	31.	U
11141-16-5	Aroclor 1232	5.4	9.8	5.4	U
53469-21-9	Aroclor 1242	3.7	9.8	3.7	U
12672-29-6	Aroclor 1248	3.4	9.8	3.4	U
11097-69-1	Aroclor 1254	2.3	9.8	320	N
11096-82-5	Aroclor 1260	2.2	9.8	2.2	U

0011

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MMMNS2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05024
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 44.3
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 15-Nov-1997 22:12
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~50.0~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	5.3	12.	5.3	UD
11104-28-2	Aroclor 1221	38.	60.	38.	UD
11141-16-5	Aroclor 1232	6.6	12.	6.6	UD
53469-21-9	Aroclor 1242	4.5	12.	4.5	UD
12672-29-6	Aroclor 1248	210 ~~4.1~~	600 ~~12.~~	210 ~~4.1~~	UD
11097-69-1	Aroclor 1254	140 ~~2.8~~	1 ~~12.~~	6600	D N J
11096-82-5	Aroclor 1260	130 ~~2.6~~	↓ ~~12.~~	130 ~~2.6~~	UD

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DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PPPNS2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05025
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 38.9
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 15-Nov-1997 22:49
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~50.0~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	4.8	11.	4.8	UD
11104-28-2	Aroclor 1221	34.	55.	34.	UD
11141-16-5	Aroclor 1232	6.0	11.	6.0	UD
53469-21-9	Aroclor 1242	4.1	11.	4.1	UD
12672-29-6	Aroclor 1248	190 ~~3.8~~	550 ~~11.~~	3.8	UD
11097-69-1	Aroclor 1254	130 ~~2.5~~	↓ ~~11.~~	10000	D N
11096-82-5	Aroclor 1260	120 ~~2.4~~	↓ ~~11.~~	2.4	UD

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DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PPPND2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05026
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 57.3
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 15-Nov-1997 23:27
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~2000~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg		Q
12674-11-2	Aroclor 1016	14000 ~~6.9~~	~~16.~~	32000	14000 ~~6.9~~	UD
11104-28-2	Aroclor 1221	49.	78.		49.	UD
11141-16-5	Aroclor 1232	8.6	16.		8.6	UD
53469-21-9	Aroclor 1242	12000 ~~5.9~~	~~16.~~	32000	12000 ~~5.9~~	UD
12672-29-6	Aroclor 1248	11000 ~~5.4~~	~~16.~~		11000 ~~5.4~~	UD
11097-69-1	Aroclor 1254	7200 ~~3.6~~	~~16.~~		470000	D N
11096-82-5	Aroclor 1260	6800 ~~3.4~~	~~16.~~		6800 ~~3.4~~	UD

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DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

Report Number: 97-00003

CLIENT SAMPLE NO.

PPPND1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05027
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 34.0
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 00:04
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~200~~ 1.
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	900 ~~4.5~~	2000 ~~10.~~	900 ~~4.5~~	UD
11104-28-2	Aroclor 1221	32.	50.	32.	UD
11141-16-5	Aroclor 1232	5.6	10.	5.6	UD
53469-21-9	Aroclor 1242	760 ~~3.8~~	2000 ~~10.~~	760 ~~3.8~~	UD
12672-29-6	Aroclor 1248	700 ~~3.5~~	10.	700 ~~3.5~~	UD
11097-69-1	Aroclor 1254	460 ~~2.3~~	10.	32000	D N
11096-82-5	Aroclor 1260	440 ~~2.2~~	10.	440 ~~2.2~~	UD

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DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PPPNS1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05028
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 36.3
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 00:42
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~200.~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	4.6	10.	4.6	UD
11104-28-2	Aroclor 1221	33.	52.	33.	UD
11141-16-5	Aroclor 1232	5.8	10.	5.8	UD
53469-21-9	Aroclor 1242	4.0	10.	4.0	UD
12672-29-6	Aroclor 1248	720 ~~3.6~~	2000 ~~10.~~	720 ~~3.6~~	UD
11097-69-1	Aroclor 1254	460 ~~2.4~~	1 ~~10.~~	13000	D
11096-82-5	Aroclor 1260	460 ~~2.3~~	↓ ~~10.~~	460 ~~2.3~~	UD

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DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PPPSED(D)

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05029
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 21.9
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 01:19
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~10.0~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	3.8	8.5	3.8	UD
11104-28-2	Aroclor 1221	27.	43.	27.	UD
11141-16-5	Aroclor 1232	4.7	8.5	4.7	UD
53469-21-9	Aroclor 1242	3.2	8.5	3.2	UD
12672-29-6	Aroclor 1248	2.9	8.5	2.9	UD
11097-69-1	Aroclor 1254	20 ~~2.0~~	85 ~~8.5~~	810	DN
11096-82-5	Aroclor 1260	19 ~~1.9~~	85 ~~8.5~~	19 ~~1.9~~	UD

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0017

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PPPSED(S)

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05030
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 40.5
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 01:56
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: 50.0
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	5.0	11.	5.0	UD
11104-28-2	Aroclor 1221	35.	56.	35.	UD
11141-16-5	Aroclor 1232	6.2	11.	6.2	UD
53469-21-9	Aroclor 1242 X50	4.3	11.	X50 50X 4.3	UD
12672-29-6	Aroclor 1248	3.9	11.	3.9	UD
11097-69-1	Aroclor 1254	2.6	11.	3700	P N
11096-82-5	Aroclor 1260	2.5	11.	50 X 2.5	UD

0018

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

OOONS3

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05031
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 36.6
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 03:11
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~500.~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	4.7	11.	4.7	UD
11104-28-2	Aroclor 1221	33.	53.	33.	UD
11141-16-5	Aroclor 1232	5.8	11.	5.8	UD
53469-21-9	Aroclor 1242	4.0	11.	4.0	UD
12672-29-6	Aroclor 1248	1800 ~~3.6~~	5500 ~~11.~~	1800 ~~3.6~~	UD
11097-69-1	Aroclor 1254	1200 ~~2.4~~	~~11.~~	49000	D N
11096-82-5	Aroclor 1260	~~2.3~~	~~11.~~	1200 ~~2.3~~	UD

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DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

Report Number: 97-00003

CLIENT SAMPLE NO.

OOOND1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05032
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 24.9
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 05:41
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~5.00~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	3.9	8.9	3.9	~~UD~~
11104-28-2	Aroclor 1221	28.	44.	28.	~~UD~~
11141-16-5	Aroclor 1232	4.9	8.9	4.9	~~UD~~
53469-21-9	Aroclor 1242	3.4	8.9	3.4	~~UD~~
12672-29-6	Aroclor 1248	3.1	8.9	3.1	~~UD~~
11097-69-1	Aroclor 1254	10 ~~2.1~~	44 ~~8.9~~	970	D N
11096-82-5	Aroclor 1260	2.0	8.9	2.0	~~UD~~ J

D=1:5

0020

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

OOONS1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05033
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 36.7
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 03:48
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~2000~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	4.7	11.	4.7	UD
11104-28-2	Aroclor 1221	33.	53.	33.	UD
11141-16-5	Aroclor 1232	5.8	11.	5.8	UD
53469-21-9	Aroclor 1242	4.0	11.	4.0	UD
12672-29-6	Aroclor 1248	72000 ~~3.6~~	22000 ~~11.~~	72000 ~~3.6~~	UD
11097-69-1	Aroclor 1254	4800 ~~2.4~~	~~11.~~	110000	D N
11096-82-5	Aroclor 1260	4600 ~~2.3~~	~~11.~~	4600 ~~2.3~~	UD

D= 1:2000

0021

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

OOOND2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05034
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 43.0
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 06:18
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~500.~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	5.2	12.	5.2	UD
11104-28-2	Aroclor 1221	37.	58.	37.	UD
11141-16-5	Aroclor 1232	6.5	12.	6.5	UD
53469-21-9	Aroclor 1242	4.4	12.	4.4	UD
12672-29-6	Aroclor 1248	4.0	12.	4.0	UD
11097-69-1	Aroclor 1254	1400 ~~2.7~~	6000 ~~12.~~	70000	D N
11096-82-5	Aroclor 1260	1300 ~~2.6~~	↓ ~~12.~~	2.6	UD

D=1:500

0022

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

OOONS2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05035
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 34.4
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 06:55
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~100.~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	4.5	10.	4.5	UD
11104-28-2	Aroclor 1221	32.	51.	32.	UD
11141-16-5	Aroclor 1232	5.6	10.	5.6	UD
53469-21-9	Aroclor 1242	3.9	10.	3.9	UD
12672-29-6	Aroclor 1248	350 ~~3.5~~	1000 ~~10.~~	350 ~~3.5~~	UD
11097-69-1	Aroclor 1254	230 ~~2.3~~	~~10.~~	13000	DN
11096-82-5	Aroclor 1260	220 ~~2.2~~	~~10.~~	220 ~~2.2~~	UD

D= 1:100

0023

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

OOOSD2

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05036
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 32.6
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 07:33
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~100.~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	4.4	9.9	4.4	UD
11104-28-2	Aroclor 1221	31.	49.	31.	UD
11141-16-5	Aroclor 1232	5.5	9.9	5.5	UD
53469-21-9	Aroclor 1242	3.8	9.9	3.8	UD
12672-29-6	Aroclor 1248	3.4	9.9	3.4	UD
11097-69-1	Aroclor 1254	230 ~~23~~	990 ~~99~~	9200	D N
11096-82-5	Aroclor 1260	220 ~~22~~	↓ ~~9.9~~	220 ~~2.2~~	UD

D = 1:100

0024

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

OOOSED(D)

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05037
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 17.9
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 13-Nov-1997 22:42
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: 1.00
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	3.6	8.1	3.6	U
11104-28-2	Aroclor 1221	25.	41.	25.	U
11141-16-5	Aroclor 1232	4.5	8.1	4.5	U
53469-21-9	Aroclor 1242	3.1	8.1	3.1	U
12672-29-6	Aroclor 1248	2.8	8.1	2.8	U
11097-69-1	Aroclor 1254	1.9	8.1	100	N
11096-82-5	Aroclor 1260	1.8	8.1	1.8	U

0025

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

OOOSED(S)

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05038
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 44.5
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 08:10
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~100.~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	5.3	12.	5.3	UD
11104-28-2	Aroclor 1221	38.	60.	38.	UD
11141-16-5	Aroclor 1232	6.6	12.	6.6	UD
53469-21-9	Aroclor 1242	4.6	12.	4.6	UD
12672-29-6	Aroclor 1248	4.1	12.	4.1	UD
11097-69-1	Aroclor 1254	280 ~~2.8~~	1200 ~~12.~~	10000	D N
11096-82-5	Aroclor 1260	260 ~~2.6~~	↓ ~~12.~~	260 ~~2.6~~	UD

D = 1:100

0026

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

OOOSS1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05039
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 52.0
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 08:47
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: ~~100.~~ 1
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	6.1	14.	6.1	UD
11104-28-2	Aroclor 1221	44.	69.	44.	UD
11141-16-5	Aroclor 1232	7.7	14.	7.7	UD
53469-21-9	Aroclor 1242	5.3	14.	5.3	UD
12672-29-6	Aroclor 1248	4.8	14.	4.8	UD
11097-69-1	Aroclor 1254	320 ~~3.2~~	140 ~~14.~~	14000	D N
11096-82-5	Aroclor 1260	310 ~~3.1~~	↓ ~~14.~~	310 ~~3.1~~	UD

D= 1:100

0027

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

Report Number: 97-00003

CLIENT SAMPLE NO.

OOONS1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05033MS
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 36.7
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 04:26
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: 2000
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	4.7	11.	6350	D
11096-82-5	Aroclor 1260	2.3	11.	33100	D

0028

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

OOONS1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: 97C05033MSD
Sample wt/vol: 0.030 Kg
Reporting Basis: Dry
% Moisture: 36.7
Decanted: N
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 16-Nov-1997 05:03
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: 2000
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	4.7	11.	15500	D
11096-82-5	Aroclor 1260	2.3	11.	77300	D

0029

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BL-142009-1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: BL-142009-1
Sample wt/vol: 0.030 Kg
Reporting Basis: As Received
% Moisture:
Decanted:
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 13-Nov-1997 09:00
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: 1.00
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	2.95	6.67	2.95	U
11104-28-2	Aroclor 1221	20.9	33.3	20.9	U
11141-16-5	Aroclor 1232	3.68	6.67	3.68	U
53469-21-9	Aroclor 1242	2.53	6.67	2.53	U
12672-29-6	Aroclor 1248	2.30	6.67	2.30	U
11097-69-1	Aroclor 1254	1.54	6.67	1.54	U
11096-82-5	Aroclor 1260	1.47	6.67	1.47	U

FORM I CHROM

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

1
PESTICIDES
ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

QC-142009-1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: QC-142009-1
Sample wt/vol: 0.030 Kg
Reporting Basis: As Received
% Moisture:
Decanted:
Date Received: 06-Nov-1997 00:00
Extraction Method: 3550C
Date Extracted: 11-Nov-1997 00:00
Analysis Method: 8080A
Date Analyzed: 13-Nov-1997 09:37
Concentrated Extract Volume: 10.0 mL
Injection Volume: 3.0 uL
Dilution Factor: 1.00
GPC Cleanup: N
pH: N/A
Sulfur Cleanup: Y

CAS NO.	COMPOUND	MDL	PQL	CONC: ug/Kg	Q
12674-11-2	Aroclor 1016	2.95	6.67	187.	
11096-82-5	Aroclor 1260	1.47	6.67	186.	

FORM I CHROM

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

2
PESTICIDES
SURROGATE RECOVERY

Client Name: Roy F. Weston Site: NA

Project: NA SDG No.: MMMND2 DCL Set ID: 97C-0426-01

Matrix: SOIL Analysis Method: 8080A

Column(1): DB-608 ID: .53mm

	CLIENT SAMPLE NO.	DBC COLUMN 1 % REC	TCX COLUMN 1 % REC	TOTAL OUT
01	MMMSS1	540 ~~571.~~ *	125 ~~105.~~	1
02	MMMSED(D)	503 ~~930.~~ *	74 ~~118.~~	1
03	MMMNS3	1332 ~~738.~~ *	125 ~~143.~~	1
04	MMMND2	119.	183. *	1
05	MMMNS2	432 ~~448.~~ *	164 * ~~116.~~	1
06	PPPNS2	633 * ~~654.~~ *	147 * ~~107.~~	1
07	PPPND2	1312 ~~15800~~ *	137.	1
08	PPPND1	1318 ~~1960~~ *	155 ~~144.~~	1
09	PPPNS1	1111 * ~~1380~~ *	171. *	2
10	PPPSED(D)	124 ~~127.~~	134 ~~131.~~	0
11	PPPSED(S)	252 ~~304.~~ *	124 ~~91.8~~	1
12	OOONS3	1356 ~~3390~~ *	117 ~~118.~~	1
13	OOOND1	109 ~~88.8~~	125 ~~114.~~	0
14	OOONS1	1334 ~~10200~~ *	140.	1
15	OOOND2	1354 ~~3430~~ *	146.	1
16	OOONS2	634 ~~918.~~ *	124 ~~112.~~	1
17	OOOSD2	787 ~~876.~~ *	156 ~~102.~~	1
18	OOOSED(D)	64.8	127.	0
19	OOOSED(S)	493 ~~666.~~ *	122 ~~99.6~~	1
20	OOOSS1	603 ~~822.~~ *	108 ~~107.~~	1
21	OOONS1 MS	1360 ~~8220~~ *	110.	1
22	OOONS1 MSD	1332 ~~9900~~ *	171. *	2
23	BL-142009-1	81.0	149.	0
24	QC-142009-1	176. *	152.	1

from 1:1

QC LIMITS

DBC = Dibutylchlorendate (37.0-147.)
TCX = Tetrachloro-meta-Xylene (38.4-156.)

* Values outside of contract required QC limits.

FORM II CHROM

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

3-1
PESTICIDES
MS and MSD RECOVERY

Report Number: 97-00003

Client Name: Roy F. Weston Site: NA

Project: NA SDG No.: MMMND2 DCL Set ID: 97C-0426-01

Matrix: SOIL Analysis Method: 8080A

Matrix Spike - Client Sample No. OOONS1 DCL Sample No.: 97C05033MS

MS Concentration Units: ug/Kg

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	REC QC LIMITS
Aroclor 1016	167.	0 ~~10000~~	6350	3802 ~~-4800~~ *	44.0-140.
Aroclor 1260	167.	0 ~~52000~~	33100	19820 ~~-28300~~ *	48.1-146.

MSD Concentration Units: ug/Kg

COMPOUND	SPIKE ADDED	MSD CONCENTRATION	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC
Aroclor 1016	167.	15500	928 ~~685~~ *	83.7 *	15.8	44.0-140.
Aroclor 1260	167.	77300	46287 ~~-1790~~ *	80.0 *	45.9	48.1-146.

* Values outside of contract required QC limits.

RPD: 2 out of 2 outside limits.
Spike Recovery: 4 out of 4 outside limits.

FORM III CHROM-1

DATA CHEM
LABORATORIES, INC.
A SORENSON COMPANY

3-2
PESTICIDES
LCS and LCSD RECOVERY

Report Number: 97-00003

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
Analysis Method: 8080A
DCL Sample No.: QC-142009-1

LCS Concentration Units: ug/Kg

COMPOUND	TARGET CONCENTRATION	LCS CONCENTRATION	LCS % REC	REC QC LIMITS
Aroclor 1016	167.	187.	112.	53.1-140.
Aroclor 1260	167.	186.	112.	48.0-151.

RPD: 0 out of 0 outside limits.
Spike Recovery: 0 out of 2 outside limits.

FORM III CHROM-2

DATA CHEM LABORATORIES, INC.
A SORENSON COMPANY

4
PESTICIDES
METHOD BLANK SUMMARY

Report Number: 97-00003

SAMPLE NO.
BL-142009-1

Client Name: Roy F. Weston
Site: NA
Project: NA
SDG No.: MMMND2
DCL Set ID: 97C-0426-01
Matrix: SOIL
DCL Sample ID: BL-142009-1
Analysis Method: 8080A
Extraction Method: 3550C
Sulfur Cleanup: Y
Date Extracted: 11-Nov-1997 00:00
Column (1): DB-608
ID: .53mm
Date Analyzed (1): 13-Nov-1997 09:00
Instrument ID (1): GC/ECD-18

THIS METHOD BLANK APPLIES TO THE FOLLOWING FIELD SAMPLES AND LAB QC

	CLIENT SAMPLE NO.	DCL SAMPLE NO.	DATE ANALYZED COLUMN 1
01	MMMSS1	97C05020	15-Nov-1997 20:57
02	MMMSED(D)	97C05021	15-Nov-1997 20:20
03	MMMNS3	97C05022	15-Nov-1997 21:35
04	MMMND2	97C05023	13-Nov-1997 11:29
05	MMMNS2	97C05024	15-Nov-1997 22:12
06	PPPNS2	97C05025	15-Nov-1997 22:49
07	PPPND2	97C05026	15-Nov-1997 23:27
08	PPPND1	97C05027	16-Nov-1997 00:04
09	PPPNS1	97C05028	16-Nov-1997 00:42
10	PPPSED(D)	97C05029	16-Nov-1997 01:19
11	PPPSED(S)	97C05030	16-Nov-1997 01:56
12	OOONS3	97C05031	16-Nov-1997 03:11
13	OOOND1	97C05032	16-Nov-1997 05:41
14	OOONS1	97C05033	16-Nov-1997 03:48
15	OOOND2	97C05034	16-Nov-1997 06:18
16	OOONS2	97C05035	16-Nov-1997 06:55
17	OOOSD2	97C05036	16-Nov-1997 07:33
18	OOOSED(D)	97C05037	13-Nov-1997 22:42
19	OOOSED(S)	97C05038	16-Nov-1997 08:10
20	OOOSS1	97C05039	16-Nov-1997 08:47
21	OOONS1	97C05033MS	16-Nov-1997 04:26
22	OOONS1	97C05033MSD	16-Nov-1997 05:03
23	QC-142009-1	QC-142009-1	13-Nov-1997 09:37

FORM IV CHROM

DATA CHEM LABORATORIES
A Sorenson Company

FORM K
RUN LOG

Form RLIMS63-V1.0
11189707432533
Page 1

R97BK000

Run ID.....: R97BK000
Start Date.....: 12-NOV-1997 10:40

Method.....: 8080A

Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Date Printed.....: 18-NOV-1997 07:43

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Sample Name	Dilution	Date Acquired
PRIME	1	12-NOV-1997 10:40
PRIME	1	12-NOV-1997 11:32
PCB221_2.0	1	12-NOV-1997 13:15
PCB232_2.0	1	12-NOV-1997 15:57
PCB242_2.0	1	12-NOV-1997 17:52
PCB248_2.0	1	12-NOV-1997 18:29
PCB254_2.0	1	12-NOV-1997 19:07
$1660_2.0	1	12-NOV-1997 19:44
$1660_1.0	1	12-NOV-1997 20:21
$1660_.20	1	12-NOV-1997 20:59
$1660_.10	1	12-NOV-1997 21:36
$1660_.02	1	12-NOV-1997 22:13
ICV_1660_1.0	1	12-NOV-1997 22:50
CCV1660_1.0	1	13-NOV-1997 05:04
BL-142021-1	1	13-NOV-1997 05:42
QC-142021-1	1	13-NOV-1997 06:19
97C05082	1	13-NOV-1997 06:56
97C05021	1	13-NOV-1997 07:34
BL-142009-1	1	13-NOV-1997 09:00
QC-142009-1	1	13-NOV-1997 09:37
97C05020	1	13-NOV-1997 10:15
97C05022	1	13-NOV-1997 10:52
97C05023	1	13-NOV-1997 11:29
97C05024	1	13-NOV-1997 12:07
CCV1660_1.0	1	13-NOV-1997 12:44
97C05025	1	13-NOV-1997 13:22
97C05026	1	13-NOV-1997 13:59
97C05027	1	13-NOV-1997 14:36
97C05028	1	13-NOV-1997 15:14
97C05029	1	13-NOV-1997 15:51
97C05030	1	13-NOV-1997 16:28
97C05031	1	13-NOV-1997 17:06
97C05033	1	13-NOV-1997 17:43
97C05033MS	1	13-NOV-1997 18:21
97C05033MSD	1	13-NOV-1997 18:58
CCV1660_1.0	1	13-NOV-1997 19:35
97C05032	1	13-NOV-1997 20:12
97C05034	1	13-NOV-1997 20:50
97C05035	1	13-NOV-1997 21:27
97C05036	1	13-NOV-1997 22:05
97C05037	1	13-NOV-1997 22:42
97C05038	1	13-NOV-1997 23:19
97C05039	1	13-NOV-1997 23:57
CCV1660_1.0	1	14-NOV-1997 00:34

Sample Name	Dilution	Date Acquired
PRIME	1	15-NOV-1997 13:08
CCV1660_1.0	1	15-NOV-1997 13:46
$1254_2.0	1	15-NOV-1997 14:23
$1254_1.0	1	15-NOV-1997 15:01
$1254_0.10	1	15-NOV-1997 17:51
$1254_0.20	1	15-NOV-1997 18:28
$1254_0.02	1	15-NOV-1997 19:05
ICV1254_1.0	1	15-NOV-1997 19:43
97C05021	50	15-NOV-1997 20:20
97C05020	50	15-NOV-1997 20:57
97C05022	50	15-NOV-1997 21:35
97C05024	50	15-NOV-1997 22:12
97C05025	50	15-NOV-1997 22:49
97C05026	2000	15-NOV-1997 23:27
97C05027	200	16-NOV-1997 00:04
97C05028	200	16-NOV-1997 00:42
97C05029	10	16-NOV-1997 01:19
97C05030	50	16-NOV-1997 01:56
CCV1660_1.0	1	16-NOV-1997 02:34
97C05031	500	16-NOV-1997 03:11
97C05033	2000	16-NOV-1997 03:48
97C05033MS	2000	16-NOV-1997 04:26
97C05033MSD	2000	16-NOV-1997 05:03
97C05032	5	16-NOV-1997 05:41
97C05034	500	16-NOV-1997 06:18
97C05035	100	16-NOV-1997 06:55
97C05036	100	16-NOV-1997 07:33
97C05038	100	16-NOV-1997 08:10
97C05039	100	16-NOV-1997 08:47
CCV1660_1.0	1	16-NOV-1997 09:25

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C97BK000

Compound.....: **Dibutylchlorendate**
Method.....: **8080A**

Date Printed.....: 18-NOV-1997 07:43

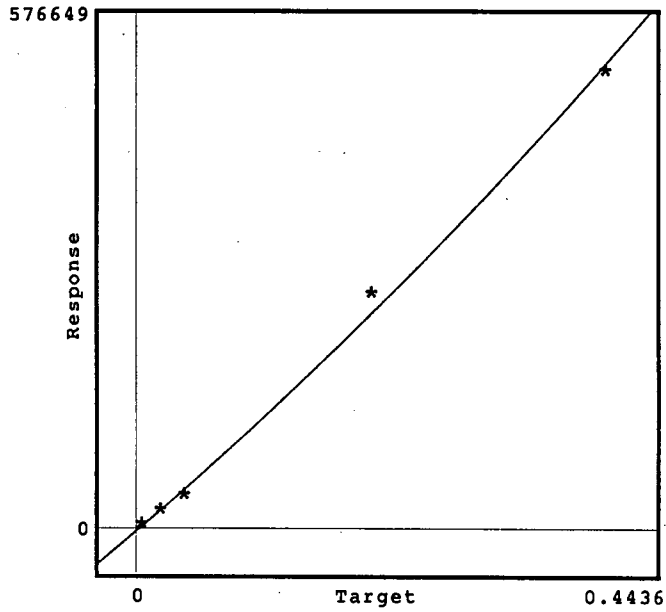
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9949650
Formula.....:
$467805.0*X^2 + 1116940.*X + -1863.040$

RT Mean.....: 25.112
RT Std Deviation.: 0.003595

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	25.11	0.00400000	3384	2612.200	-22.81	12-NOV-1997 22:13
$1660_.10	25.11	0.0200000	19115	20662.90	8.10	12-NOV-1997 21:36
$1660_.20	25.11	0.0400000	35968	43563.10	21.12	12-NOV-1997 20:59
$1660_1.0	25.11	0.200000	261803	240237.0	-8.24	12-NOV-1997 20:21
$1660_2.0	25.11	0.400000	510421	519762.0	1.83	12-NOV-1997 19:44

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C97BK000

Compound.....: **PCB 1016**
Method.....: **8080A**

Date Printed.....: 18-NOV-1997 07:43

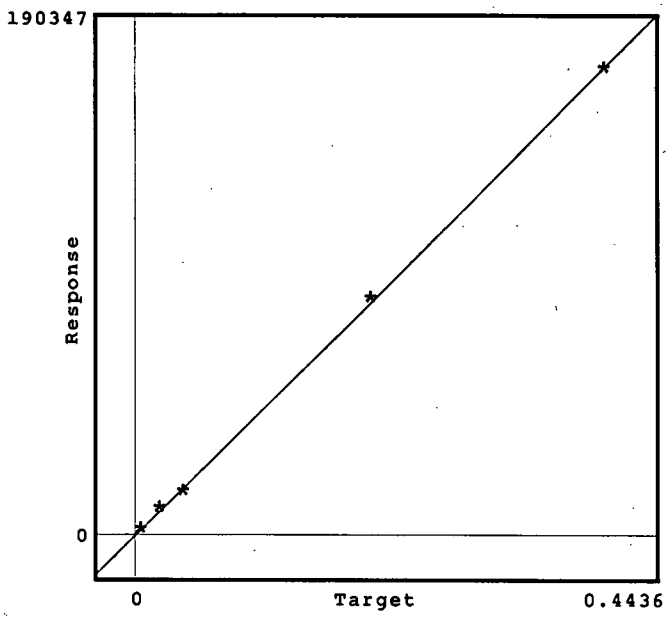
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9990160
Formula.....:
$14556.70*X^2 + 423164.0*X + 63.10070$

RT Mean.....: 13.670
RT Std Deviation.: 0.001035

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	13.67	0.00400000	1751	1755.990	0.29	12-NOV-1997 22:13
$1660_.10	13.67	0.0200000	9325	8532.210	-8.50	12-NOV-1997 21:36
$1660_.20	13.67	0.0400000	15507	17012.90	9.71	12-NOV-1997 20:59
$1660_1.0	13.67	0.200000	86923	85278.30	-1.89	12-NOV-1997 20:21
$1660_2.0	13.67	0.400000	170979	171658.0	0.40	12-NOV-1997 19:44

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C97BK000

Compound.....: PCB 1016
Method.....: 8080A

Date Printed.....: 18-NOV-1997 07:43

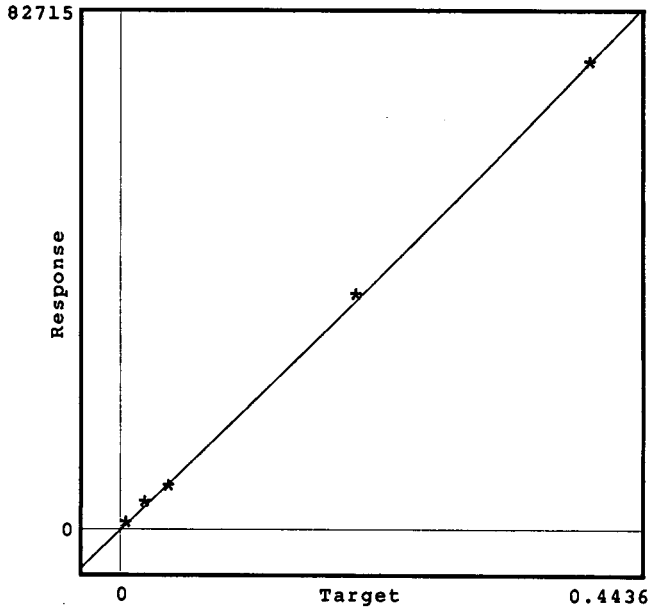
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9990100
Formula.....:
$20460.30*X^2 + 178192.0*X + 43.10440$

RT Mean.....: 14.345
RT Std Deviation.: 0.002873

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	14.35	0.00400000	756	756.2000	0.03	12-NOV-1997 22:13
$1660_.10	14.35	0.0200000	3945	3615.130	-8.36	12-NOV-1997 21:36
$1660_.20	14.35	0.0400000	6555	7203.520	9.89	12-NOV-1997 20:59
$1660_1.0	14.34	0.200000	37235	36499.90	-1.97	12-NOV-1997 20:21
$1660_2.0	14.34	0.400000	74285	74593.60	0.42	12-NOV-1997 19:44

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C97BK000

Compound.....: **PCB 1016**
Method.....: **8080A**

Date Printed.....: 18-NOV-1997 07:43

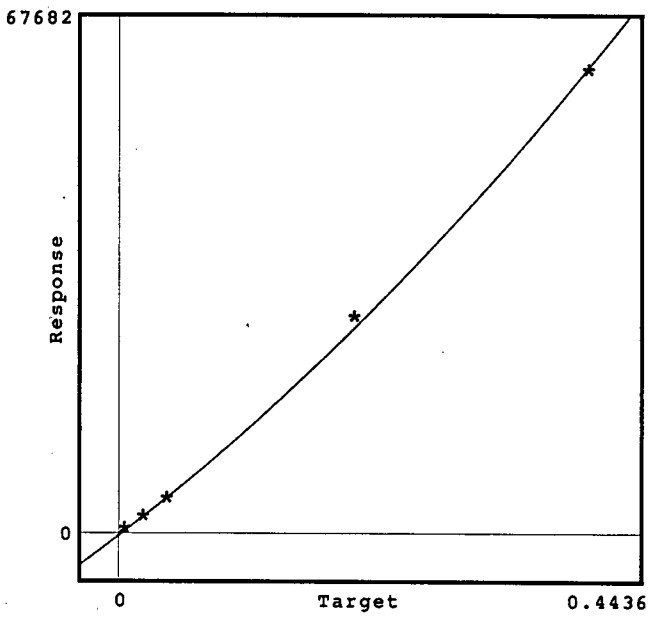
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9985190
Formula.....:
$89167.50*X^2 + 117184.0*X + -131.9120$

RT Mean.....: 14.891
RT Std Deviation.: 0.002038

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	14.89	0.00400000	407	338.2520	-16.89	12-NOV-1997 22:13
$1660_.10	14.89	0.0200000	1988	2247.440	13.05	12-NOV-1997 21:36
$1660_.20	14.89	0.0400000	4380	4698.140	7.26	12-NOV-1997 20:59
$1660_1.0	14.89	0.200000	28116	26871.70	-4.43	12-NOV-1997 20:21
$1660_2.0	14.89	0.400000	60403	61008.70	1.00	12-NOV-1997 19:44

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C97BK000

Compound.....: PCB 1016
Method.....: 8080A

Date Printed.....: 18-NOV-1997 07:43

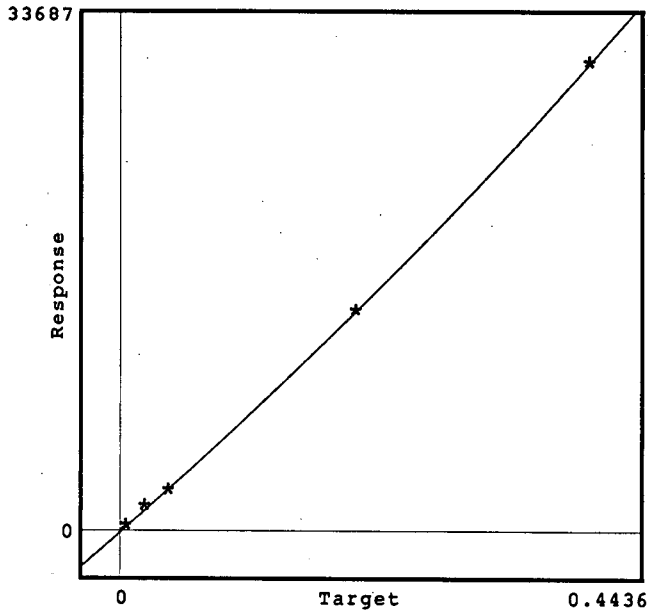
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9992160
Formula.....:
$25293.80*X^2 + 65849.50*X + -12.50650$

RT Mean.....: 16.486
RT Std Deviation.: 0.0036

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	16.49	0.00400000	235	251.2960	6.93	12-NOV-1997 22:13
$1660_.10	16.49	0.0200000	1508	1314.600	-12.82	12-NOV-1997 21:36
$1660_.20	16.49	0.0400000	2514	2661.940	5.88	12-NOV-1997 20:59
$1660_1.0	16.48	0.200000	14163	14169.10	0.04	12-NOV-1997 20:21
$1660_2.0	16.48	0.400000	30386	30374.30	-0.04	12-NOV-1997 19:44

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C97BK000

Compound.....: PCB 1016
Method.....: 8080A

Date Printed.....: 18-NOV-1997 07:43

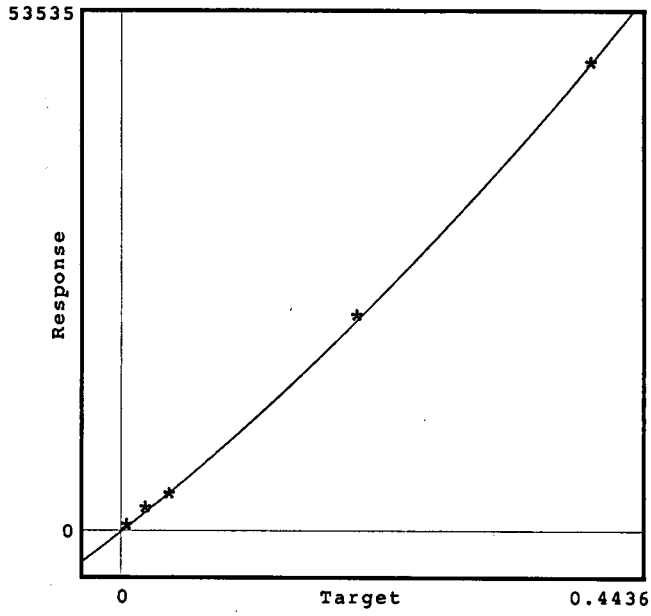
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9991630
Formula.....:
$64237.30*X^2 + 95030.60*X + -25.04460$

RT Mean.....: 16.823
RT Std Deviation.: 0.003483

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	16.83	0.00400000	351	356.1050	1.45	12-NOV-1997 22:13
$1660_.10	16.82	0.0200000	2104	1901.260	-9.64	12-NOV-1997 21:36
$1660_.20	16.82	0.0400000	3543	3878.960	9.48	12-NOV-1997 20:59
$1660_1.0	16.82	0.200000	21910	21550.50	-1.64	12-NOV-1997 20:21
$1660_2.0	16.82	0.400000	48102	48265.10	0.34	12-NOV-1997 19:44

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FORM L
INITIAL CALIBRATION

C97BK000

Compound.....: PCB 1254
Method.....: 8080A

Date Printed.....: 18-NOV-1997 07:43

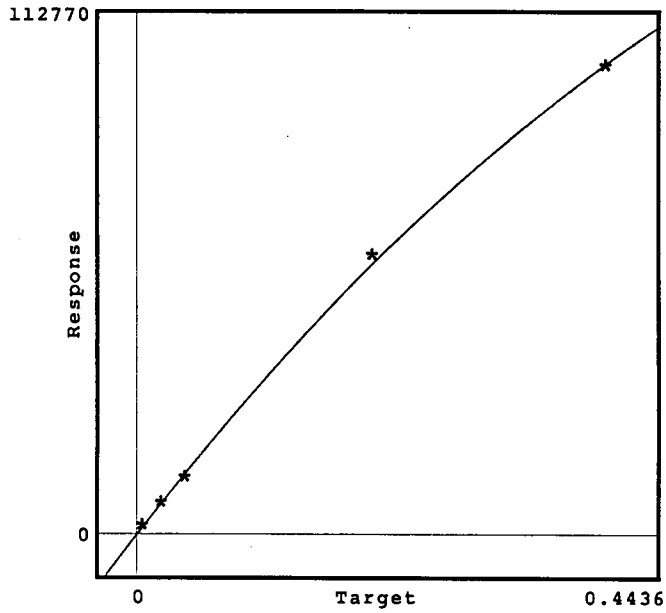
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9990720
Formula.....:
$-171525.0*X^2 + 322543.0*X + 165.2560$

RT Mean.....: 17.957
RT Std Deviation.: 0.005339

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1254_0.02	17.95	0.00400000	1572	1452.680	-7.59	15-NOV-1997 19:05
$1254_0.10	17.97	0.0200000	6425	6547.510	1.91	15-NOV-1997 17:51
$1254_0.20	17.95	0.0400000	11849	12792.50	7.96	15-NOV-1997 18:28
$1254_1.0	17.95	0.200000	59557	57812.90	-2.93	15-NOV-1997 15:01
$1254_2.0	17.96	0.400000	101083	101738.0	0.65	15-NOV-1997 14:23

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FORM L
INITIAL CALIBRATION

C97BK000

Compound.....: PCB 1254 2
Method.....: 8080A

Date Printed.....: 18-NOV-1997 07:43

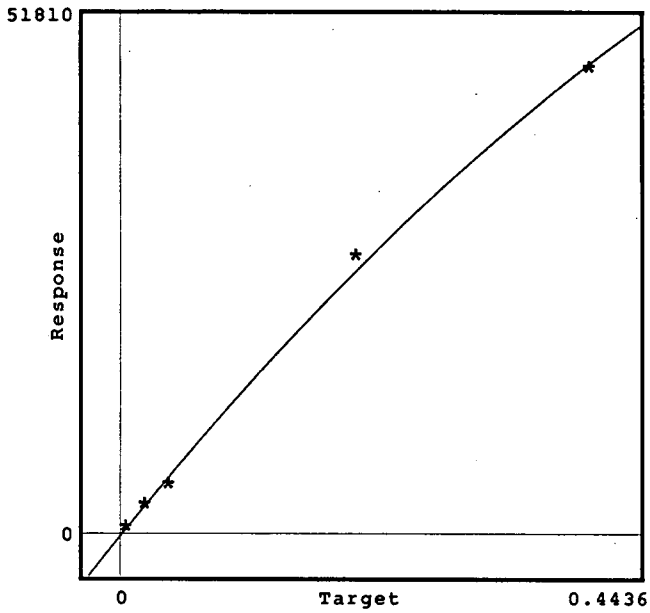
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9970510
Formula.....:
$-65501.40*X^2 + 143190.0*X + -70.10420$

RT Mean.....: 18.508
RT Std Deviation.: 0.003981

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1254_0.02	18.51	0.00400000	568	501.6110	-11.69	15-NOV-1997 19:05
$1254_0.10	18.52	0.0200000	2771	2767.510	-0.13	15-NOV-1997 17:51
$1254_0.20	18.51	0.0400000	4791	5552.730	15.90	15-NOV-1997 18:28
$1254_1.0	18.51	0.200000	27382	25948.00	-5.24	15-NOV-1997 15:01
$1254_2.0	18.51	0.400000	46194	46726.00	1.15	15-NOV-1997 14:23

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FORM L
INITIAL CALIBRATION

C97BK000

Compound.....: PCB 1254 -3
Method.....: 8080A

Date Printed.....: 18-NOV-1997 07:43

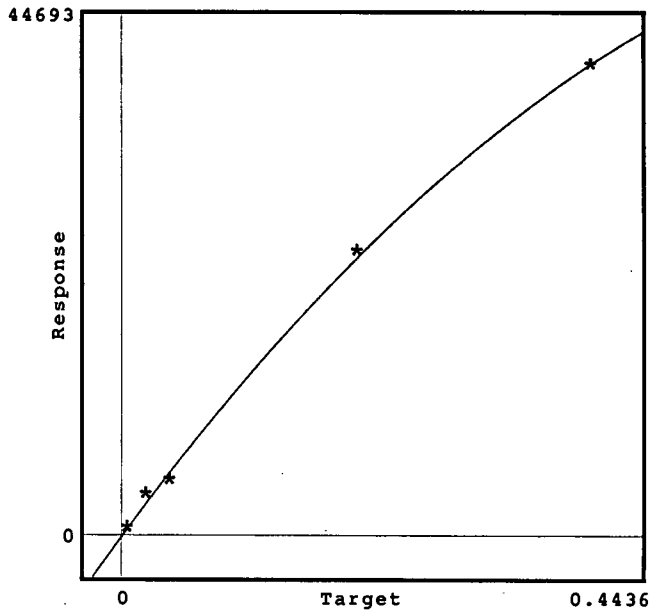
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9957900
Formula.....:
$-84108.60*X^2 + 134461.0*X + -10.12900$

RT Mean.....: 19.607
RT Std Deviation.: 0.00506

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1254_0.02	19.60	0.00400000	497	526.3690	5.91	15-NOV-1997 19:05
$1254_0.10	19.61	0.0200000	3315	2645.440	-20.20	15-NOV-1997 17:51
$1254_0.20	19.60	0.0400000	4511	5233.740	16.02	15-NOV-1997 18:28
$1254_1.0	19.61	0.200000	24038	23517.70	-2.16	15-NOV-1997 15:01
$1254_2.0	19.61	0.400000	40144	40316.90	0.43	15-NOV-1997 14:23

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C97BK000

Compound.....: PCB 1254 -4
Method.....: 8080A

Date Printed.....: 18-NOV-1997 07:43

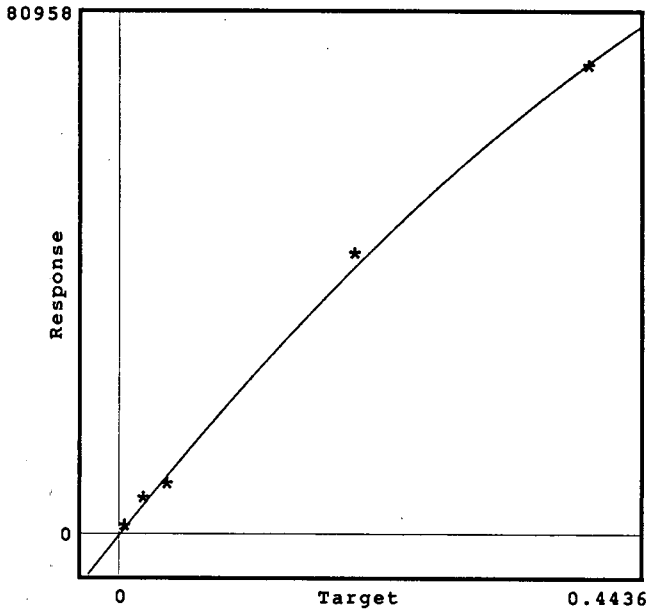
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9959040
Formula.....:
$-114075.0*X^2 + 228277.0*X + -37.08930$

RT Mean.....: 19.861
RT Std Deviation.: 0.003437

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1254_0.02	19.86	0.00400000	897	874.1940	-2.54	15-NOV-1997 19:05
$1254_0.10	19.87	0.0200000	5176	4482.820	-13.39	15-NOV-1997 17:51
$1254_0.20	19.86	0.0400000	7468	8911.480	19.33	15-NOV-1997 18:28
$1254_1.0	19.86	0.200000	42906	41055.30	-4.31	15-NOV-1997 15:01
$1254_2.0	19.86	0.400000	72357	73021.70	0.92	15-NOV-1997 14:23

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C97BK000

Compound.....: PCB 1254 -5
Method.....: 8080A

Date Printed.....: 18-NOV-1997 07:43

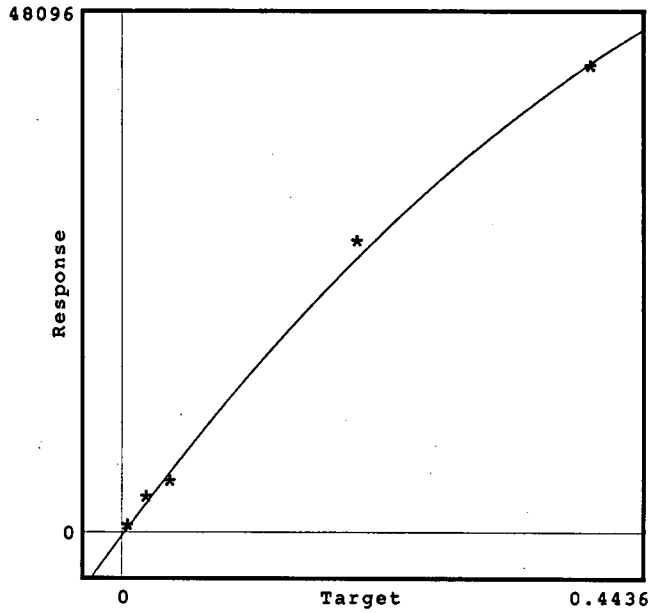
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9949870
Formula.....:
$-87119.30*X^2 + 143674.0*X + -158.8990$

RT Mean.....: 22.459
RT Std Deviation.: 0.003984

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1254_0.02	22.46	0.00400000	438	414.4030	-5.39	15-NOV-1997 19:05
$1254_0.10	22.46	0.0200000	3058	2679.730	-12.37	15-NOV-1997 17:51
$1254_0.20	22.46	0.0400000	4468	5448.670	21.95	15-NOV-1997 18:28
$1254_1.0	22.46	0.200000	26506	25091.10	-5.34	15-NOV-1997 15:01
$1254_2.0	22.46	0.400000	42880	43371.60	1.15	15-NOV-1997 14:23

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INITIAL CALIBRATION

C97BK000

Compound.....: PCB 1260 - 3
Method.....: 8080A

Date Printed.....: 18-NOV-1997 07:43

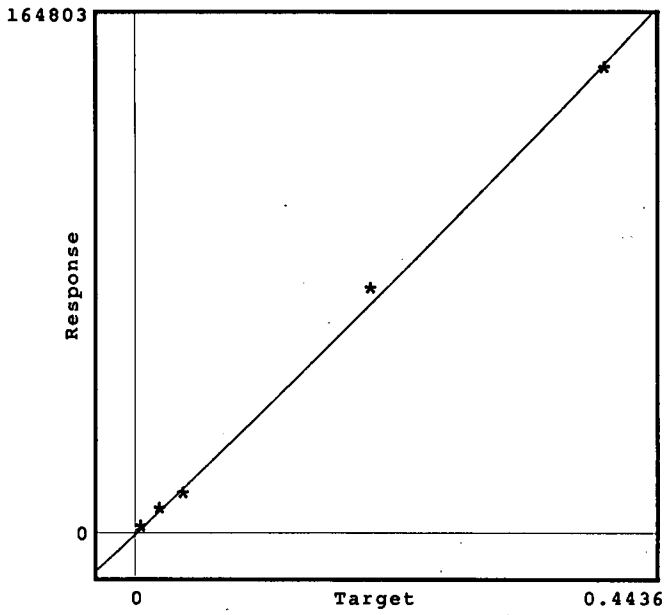
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9967430
Formula.....:
$61590.50*X^2 + 347402.0*X + -229.0210$

RT Mean.....: 21.341
RT Std Deviation.: 0.003688

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	21.34	0.00400000	1330	1161.570	-12.66	12-NOV-1997 22:13
$1660_.10	21.34	0.0200000	6823	6743.670	-1.16	12-NOV-1997 21:36
$1660_.20	21.34	0.0400000	11622	13765.60	18.44	12-NOV-1997 20:59
$1660_1.0	21.34	0.200000	76226	71715.10	-5.92	12-NOV-1997 20:21
$1660_2.0	21.34	0.400000	146681	148586.0	1.30	12-NOV-1997 19:44

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DATA CHEM LABORATORIES
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FORM L
INITIAL CALIBRATION

C97BK000

Compound.....: PCB 1260 ; 4
Method.....: 8080A

Date Printed.....: 18-NOV-1997 07:43

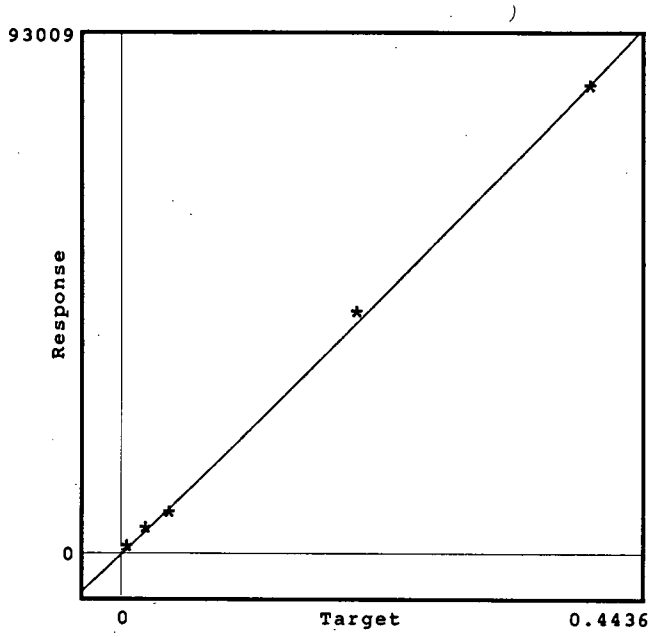
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9981350
Formula.....:
$32102.30*X^2 + 196828.0*X + 3.154950$

RT Mean.....: 22.665
RT Std Deviation.: 0.001569

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	22.67	0.00400000	845	790.9800	-6.39	12-NOV-1997 22:13
$1660_.10	22.67	0.0200000	4150	3952.550	-4.76	12-NOV-1997 21:36
$1660_.20	22.67	0.0400000	6938	7927.630	14.26	12-NOV-1997 20:59
$1660_1.0	22.66	0.200000	42337	40652.80	-3.98	12-NOV-1997 20:21
$1660_2.0	22.66	0.400000	83152	83870.70	0.86	12-NOV-1997 19:44

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FORM L
INITIAL CALIBRATION

C97BK000

Compound.....: **PCB 1260**
Method.....: **8080A**

Date Printed.....: 18-NOV-1997 07:43

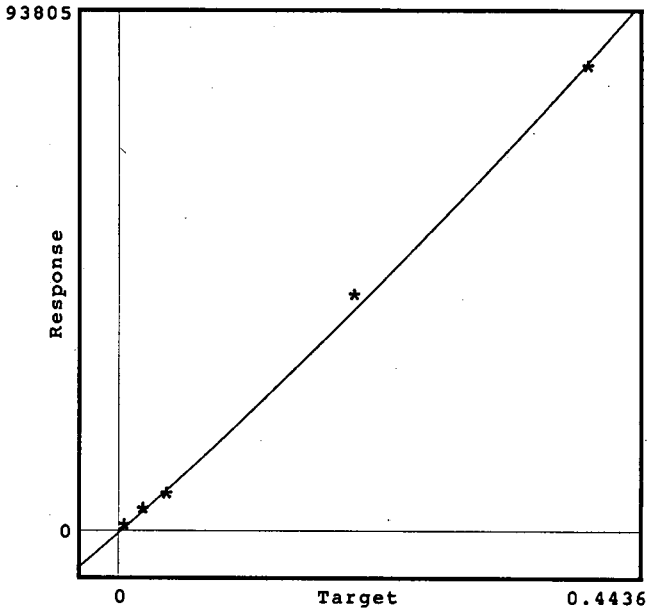
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9972990
Formula.....:
$67079.10*X^2 + 185110.0*X + -214.8770$

RT Mean.....: 24.601
RT Std Deviation.: 0.000469

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	24.61	0.00400000	606	526.6380	-13.10	12-NOV-1997 22:13
$1660_.10	24.60	0.0200000	3490	3514.160	0.69	12-NOV-1997 21:36
$1660_.20	24.60	0.0400000	6246	7296.870	16.82	12-NOV-1997 20:59
$1660_1.0	24.60	0.200000	41864	39490.30	-5.67	12-NOV-1997 20:21
$1660_2.0	24.60	0.400000	83519	84562.00	1.25	12-NOV-1997 19:44

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FORM L
INITIAL CALIBRATION

C97BK000

Compound.....: PCB 1260
Method.....: 8080A

Date Printed.....: 18-NOV-1997 07:43

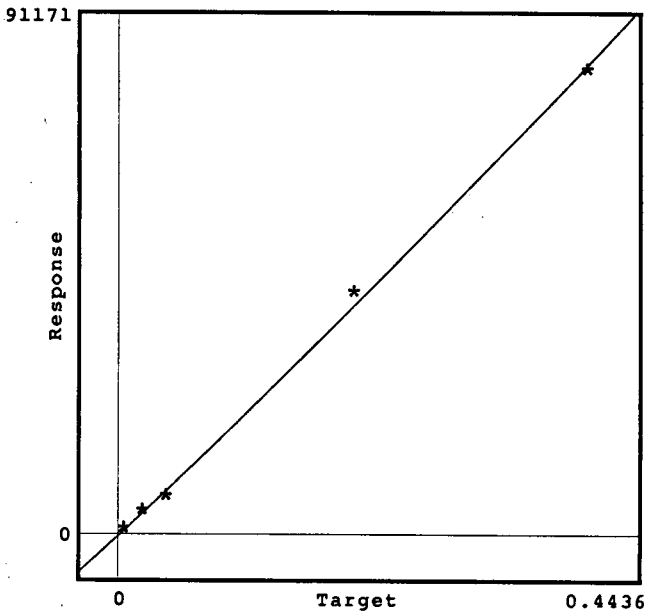
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9969610
Formula.....:
$36582.60*X^2 + 191117.0*X + -97.15760$

RT Mean.....: 20.275
RT Std Deviation.: 0.003493

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	20.28	0.00400000	744	667.8980	-10.23	12-NOV-1997 22:13
$1660_.10	20.27	0.0200000	3888	3739.820	-3.81	12-NOV-1997 21:36
$1660_.20	20.28	0.0400000	6429	7606.070	18.31	12-NOV-1997 20:59
$1660_1.0	20.27	0.200000	41877	39589.60	-5.46	12-NOV-1997 20:21
$1660_2.0	20.27	0.400000	81234	82203.10	1.19	12-NOV-1997 19:44

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FORM L
INITIAL CALIBRATION

C97BK000

Compound.....: **PCB 1260**
Method.....: **8080A**

Date Printed.....: 18-NOV-1997 07:43

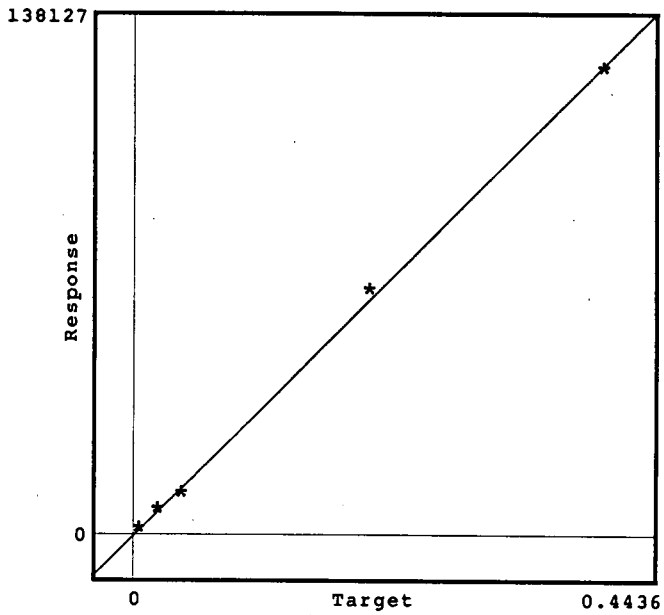
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9980840
Formula.....:
$6793.300*X^2 + 308769.0*X + -36.74550$

RT Mean.....: 20.996
RT Std Deviation.: 0.003522

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	21.00	0.00400000	1272	1198.440	-5.78	12-NOV-1997 22:13
$1660_.10	21.00	0.0200000	6498	6141.360	-5.49	12-NOV-1997 21:36
$1660_.20	21.00	0.0400000	10782	12324.90	14.31	12-NOV-1997 20:59
$1660_1.0	21.00	0.200000	64491	61988.80	-3.88	12-NOV-1997 20:21
$1660_2.0	20.99	0.400000	123519	124558.0	0.84	12-NOV-1997 19:44

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FORM L
INITIAL CALIBRATION

C97BK000

Compound.....: **Tetrachloro-m-xylene**
Method.....: **8080A**

Date Printed.....: 18-NOV-1997 07:43

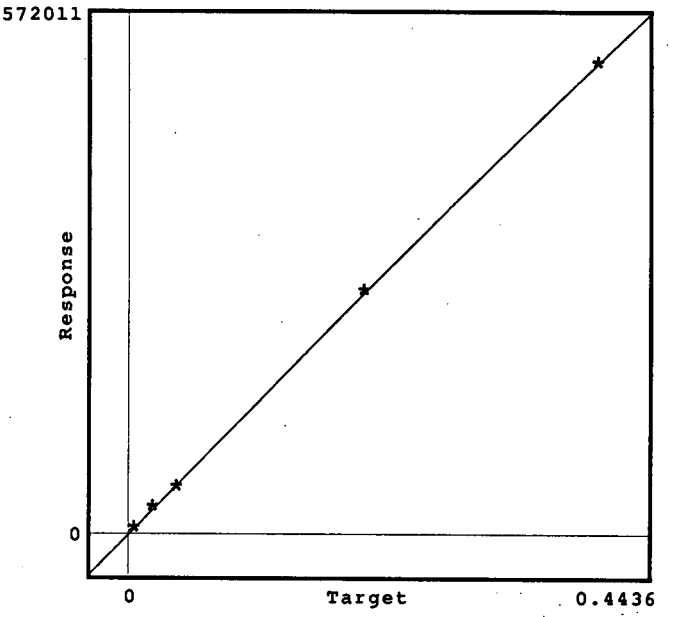
Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Model.....: Quadratic
Coef of Deter(r^2): 0.9996350
Formula.....:
$-98248.50*X^2 + 1329050.*X + -56.82160$

RT Mean.....: 7.653
RT Std Deviation.: 0.003701

Calibration Units: ug/ml



Standard	Retention Time	Target	Response	Estimated Response	Percent Difference	Date Acquired
$1660_.02	7.65	0.00400000	5143	5257.830	2.23	12-NOV-1997 22:13
$1660_.10	7.65	0.0200000	28432	26485.00	-6.85	12-NOV-1997 21:36
$1660_.20	7.65	0.0400000	50368	52948.30	5.12	12-NOV-1997 20:59
$1660_1.0	7.66	0.200000	263489	261824.0	-0.63	12-NOV-1997 20:21
$1660_2.0	7.65	0.400000	515210	515846.0	0.12	12-NOV-1997 19:44

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DATA CHEM LABORATORIES
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FORM N1
INITIAL CALIBRATION VERIFICATION

Form RLIMS63-V1.0
11189707432533
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R97BK000

Sample Name.....: ICV_1660_1.0
Acquisition Date.: 12-NOV-1997 22:50

Method.....: 8080A

Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Calibration Units: ug/ml

Date Printed.....: 18-NOV-1997 07:43

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Run ID.....: R97BK000
Run Start Date...: 12-NOV-1997 10:40

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	7.67	7.62	7.72		0.200000	0.190213	-5	25	
PCB 1016	13.68	13.63	13.73		0.200000	0.207811	4	25	
PCB 1016	14.35	14.30	14.40		0.200000	0.207511	4	25	
PCB 1016	14.89	14.76	15.02		0.200000	0.228903	14	25	
PCB 1016	16.49	16.44	16.54		0.200000	0.203837	2	25	
PCB 1016	16.82	16.77	16.87		0.200000	0.185007	-7	25	
PCB 1260	20.28	20.23	20.33		0.200000	0.215396	8	25	
PCB 1260	21.00	20.95	21.05		0.200000	0.210884	5	25	
PCB 1260	21.34	21.29	21.39		0.200000	0.211027	6	25	
PCB 1260	22.67	22.62	22.72		0.200000	0.208465	4	25	
PCB 1260	24.60	24.55	24.65		0.200000	0.197642	-1	25	
Dibutylchlorendate	25.11	25.06	25.16		0.200000	0.194663	-3	25	

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DATA CHEM LABORATORIES
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FORM N1
INITIAL CALIBRATION VERIFICATION

R97BK000

Sample Name.....: ICV1254_1.0
Acquisition Date.: 15-NOV-1997 19:43

Method.....: 8080A

Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Calibration Units: ug/ml

Date Printed.....: 5-DEC-1997 11:13

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Run ID.....: R97BK000
Run Start Date...: 12-NOV-1997 10:40

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
PCB 1254	17.95	17.91	18.01		0.200000	0.175486	-12	25	
PCB 1254	18.50	18.47	18.57		0.200000	0.179331	-10	25	
PCB 1254	19.60	19.60	19.76		0.200000	0.173965	-13	25	
PCB 1254	19.86	19.82	19.92		0.200000	0.175723	-12	25	
PCB 1254	22.46	22.41	22.51		0.200000	0.171774	-14	25	

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DATA CHEM LABORATORIES
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FORM N2
CONTINUING CALIBRATION VERIFICATION

Form RLIMS63-V1.0
11189707432533
Page 21

R97BK000

Sample Name.....: CCV1660_1.0
Acquisition Date.: 13-NOV-1997 05:04

Method.....: 8080A

Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Calibration Units: ug/ml

Date Printed.....: 18-NOV-1997 07:43

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Run ID.....: R97BK000
Run Start Date...: 12-NOV-1997 10:40

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	7.65	7.62	7.72		0.200000	0.192224	-4	15	
PCB 1016	13.67	13.63	13.73		0.200000	0.187835	-6	15	
PCB 1016	14.35	14.30	14.40		0.200000	0.187793	-6	15	
PCB 1016	14.89	14.76	15.02		0.200000	0.193790	-3	15	
PCB 1016	16.49	16.44	16.54		0.200000	0.183532	-8	15	
PCB 1016	16.83	16.77	16.87		0.200000	0.186319	-7	15	
PCB 1260	20.28	20.23	20.33		0.200000	0.191435	-4	15	
PCB 1260	21.00	20.95	21.05		0.200000	0.187258	-6	15	
PCB 1260	21.34	21.29	21.39		0.200000	0.193776	-3	15	
PCB 1260	22.67	22.62	22.72		0.200000	0.192079	-4	15	
PCB 1260	24.61	24.55	24.65		0.200000	0.194283	-3	15	
Dibutylchlorendate	25.12	25.06	25.16		0.200000	0.204803	2	15	

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DATA CHEM LABORATORIES
A Sorenson Company

FORM N2
CONTINUING CALIBRATION VERIFICATION

R97BK000

Sample Name.....: CCV1660_1.0
Acquisition Date.: 13-NOV-1997 12:44

Method.....: 8080A

Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Calibration Units: ug/ml

Date Printed.....: 18-NOV-1997 07:43

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Run ID.....: R97BK000
Run Start Date...: 12-NOV-1997 10:40

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	7.65	7.62	7.72		0.200000	0.231700	16	15	*
PCB 1016	13.67	13.63	13.73		0.200000	0.218734	9	15	
PCB 1016	14.34	14.30	14.40		0.200000	0.218383	9	15	
PCB 1016	14.88	14.76	15.02		0.200000	0.225802	13	15	
PCB 1016	16.48	16.44	16.54		0.200000	0.205477	3	15	
PCB 1016	16.82	16.77	16.87		0.200000	0.212544	6	15	
PCB 1260	20.27	20.23	20.33		0.200000	0.210098	5	15	
PCB 1260	20.99	20.95	21.05		0.200000	0.212331	6	15	
PCB 1260	21.34	21.29	21.39		0.200000	0.223025	12	15	
PCB 1260	22.66	22.62	22.72		0.200000	0.221336	11	15	
PCB 1260	24.60	24.55	24.65		0.200000	0.226096	13	15	
Dibutylchlorendate	25.11	25.06	25.16		0.200000	0.237611	19	15	*

* Failed acceptance criteria.

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DATA CHEM LABORATORIES
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FORM N2
CONTINUING CALIBRATION VERIFICATION

R97BK000

Sample Name.....: CCV1660_1.0
Acquisition Date.: 13-NOV-1997 19:35

Method.....: 8080A

Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Calibration Units: ug/ml

Date Printed.....: 18-NOV-1997 07:43

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Run ID.....: R97BK000
Run Start Date...: 12-NOV-1997 10:40

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	7.65	7.62	7.72		0.200000	0.173486	-13	15	
PCB 1016	13.67	13.63	13.73		0.200000	0.185465	-7	15	
PCB 1016	14.34	14.30	14.40		0.200000	0.184042	-8	15	
PCB 1016	14.88	14.76	15.02		0.200000	0.190734	-5	15	
PCB 1016	16.48	16.44	16.54		0.200000	0.172712	-14	15	
PCB 1016	16.82	16.77	16.87		0.200000	0.179409	-10	15	
PCB 1260	20.27	20.23	20.33		0.200000	0.167577	-16	15	*
PCB 1260	20.99	20.95	21.05		0.200000	0.164813	-18	15	*
PCB 1260	21.33	21.29	21.39		0.200000	0.171844	-14	15	
PCB 1260	22.66	22.62	22.72		0.200000	0.171566	-14	15	
PCB 1260	24.59	24.55	24.65		0.200000	0.171377	-14	15	
Dibutylchlorendate	25.11	25.06	25.16		0.200000	0.178469	-11	15	

* Failed acceptance criteria.

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DATA CHEM LABORATORIES
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FORM N2
CONTINUING CALIBRATION VERIFICATION

R97BK000

Sample Name.....: CCV1660_1.0
Acquisition Date.: 14-NOV-1997 00:34

Method.....: 8080A

Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Calibration Units: ug/ml

Date Printed.....: 18-NOV-1997 07:43

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Run ID.....: R97BK000
Run Start Date...: 12-NOV-1997 10:40

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	7.65	7.62	7.72		0.200000	0.198200	-1	15	
PCB 1016	13.67	13.63	13.73		0.200000	0.194474	-3	15	
PCB 1016	14.34	14.30	14.40		0.200000	0.192375	-4	15	
PCB 1016	14.89	14.76	15.02		0.200000	0.202093	1	15	
PCB 1016	16.48	16.44	16.54		0.200000	0.179334	-10	15	
PCB 1016	16.82	16.77	16.87		0.200000	0.188217	-6	15	
PCB 1260	20.27	20.23	20.33		0.200000	0.183364	-8	15	
PCB 1260	20.99	20.95	21.05		0.200000	0.182458	-9	15	
PCB 1260	21.34	21.29	21.39		0.200000	0.191001	-4	15	
PCB 1260	22.66	22.62	22.72		0.200000	0.191706	-4	15	
PCB 1260	24.60	24.55	24.65		0.200000	0.193312	-3	15	
Dibutylchlorendate	25.11	25.06	25.16		0.200000	0.201412	1	15	

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FORM N2
CONTINUING CALIBRATION VERIFICATION

R97BK000

Sample Name.....: CCV1660_1.0
Acquisition Date.: 15-NOV-1997 13:46

Method.....: 8080A

Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Calibration Units: ug/ml

Date Printed.....: 18-NOV-1997 07:43

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Run ID.....: R97BK000
Run Start Date...: 12-NOV-1997 10:40

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	7.66	7.62	7.72		0.200000	0.224418	12	15	
PCB 1016	13.67	13.63	13.73		0.200000	0.200512	0	15	
PCB 1016	14.35	14.30	14.40		0.200000	0.199442	0	15	
PCB 1016	14.89	14.76	15.02		0.200000	0.221013	11	15	
PCB 1016	16.49	16.44	16.54		0.200000	0.192965	-4	15	
PCB 1016	16.82	16.77	16.87		0.200000	0.176942	-12	15	
PCB 1260	20.28	20.23	20.33		0.200000	0.215188	8	15	
PCB 1260	21.00	20.95	21.05		0.200000	0.216117	8	15	
PCB 1260	21.34	21.29	21.39		0.200000	0.221685	11	15	
PCB 1260	22.67	22.62	22.72		0.200000	0.216262	8	15	
PCB 1260	24.60	24.55	24.65		0.200000	0.217939	9	15	
Dibutylchlorendate	25.11	25.06	25.16		0.200000	0.227614	14	15	

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FORM N2
CONTINUING CALIBRATION VERIFICATION

R97BK000

Sample Name.....: CCV1660_1.0
Acquisition Date.: 16-NOV-1997 02:34

Method.....: 8080A

Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Calibration Units: ug/ml

Date Printed.....: 18-NOV-1997 07:43

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Run ID.....: R97BK000
Run Start Date...: 12-NOV-1997 10:40

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	7.65	7.62	7.72		0.200000	0.193532	-3	15	
PCB 1016	13.67	13.63	13.73		0.200000	0.187430	-6	15	
PCB 1016	14.34	14.30	14.40		0.200000	0.187234	-6	15	
PCB 1016	14.89	14.76	15.02		0.200000	0.205070	3	15	
PCB 1016	16.48	16.44	16.54		0.200000	0.181201	-9	15	
PCB 1016	16.82	16.77	16.87		0.200000	0.164485	-18	15	*
PCB 1260	20.28	20.23	20.33		0.200000	0.198626	-1	15	
PCB 1260	21.00	20.95	21.05		0.200000	0.199329	0	15	
PCB 1260	21.34	21.29	21.39		0.200000	0.202885	1	15	
PCB 1260	22.66	22.62	22.72		0.200000	0.202418	1	15	
PCB 1260	24.60	24.55	24.65		0.200000	0.207882	4	15	
Dibutylchlorendate	25.11	25.06	25.16		0.200000	0.207941	4	15	

* Failed acceptance criteria.

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DATA CHEM LABORATORIES
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FORM N2
CONTINUING CALIBRATION VERIFICATION

R97BK000

Sample Name.....: CCV1660_1.0
Acquisition Date.: 16-NOV-1997 09:25

Method.....: 8080A

Init Calib ID....: C97BK000
Init Calib Date..: 12-NOV-1997 19:44

Calibration Units: ug/ml

Date Printed.....: 18-NOV-1997 07:43

Instrument Name..: GC/ECD-18
Column Name.....: DB-608
Detector Name....: ECD

Run ID.....: R97BK000
Run Start Date...: 12-NOV-1997 10:40

Compound	Retent Time	Retention Time Window		RT Flag	Target	Found	% Diff	Limit (± %)	Verf Flag
Tetrachloro-m-xylene	7.66	7.62	7.72		0.200000	0.199266	0	15	
PCB 1016	13.68	13.63	13.73		0.200000	0.215882	8	15	
PCB 1016	14.35	14.30	14.40		0.200000	0.216288	8	15	
PCB 1016	14.89	14.76	15.02		0.200000	0.238815	19	15	*
PCB 1016	16.49	16.44	16.54		0.200000	0.207679	4	15	
PCB 1016	16.83	16.77	16.87		0.200000	0.189324	-5	15	
PCB 1260	20.28	20.23	20.33		0.200000	0.221475	11	15	
PCB 1260	21.00	20.95	21.05		0.200000	0.218074	9	15	
PCB 1260	21.34	21.29	21.39		0.200000	0.216456	8	15	
PCB 1260	22.67	22.62	22.72		0.200000	0.218293	9	15	
PCB 1260	24.60	24.55	24.65		0.200000	0.218023	9	15	
Dibutylchlorendate	25.11	25.06	25.16		0.200000	0.212738	6	15	

* Failed acceptance criteria.

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DATA CHEM
LABORATORIES
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Sample Tracking Documentation
Inventory Checklist

- [x] LIMS Grouping Reports
- [x] DataChem Laboratories (DCL) Chain-of-Custody Record
- [x] DCL Sample Work Order
- [NA] Copy of numbered Nonconformance/Corrective Action Report (NC/CAR)
- [NA] Copy of Client-Related Problem Report (CPR)

Sample Tracking Documentation
Reviewer Checklist

- [x] The Sample Tracking Documentation Inventory Checklist above is complete.
- [x] DCL Chain-of-Custody Record provides signatures for the sample portion reported in this data package.
- [x] DCL Chain-of-Custody Record was completed in accordance with procedures in DCL SOP XX-DC-006 "Chain-of-Custody and Laboratory Tracking."
- [x] Methods specified on the Sample Work Order were performed or an explanation for deviations is provided.
- [x] Special instructions on the Sample Work Order were followed.
- [x] Project Management instructions on the Project Protocol Worksheet were followed.
- [x] Client's requests were met or an explanation is provided in the Case Narrative.
- [NA] NC/CAR and/or CPR were completed in accordance with procedures in DCL SOP QC-DC-006 "Nonconformance/Corrective Action Report (NC/CAR) Procedures."

0063

Assembled by: _____ 11/18/97 Reviewed by: _____ 12/5/97
Signature Date Signature Date

Rev. 3/95

DataChem Laboratories
LIMS - Sample Master System
Preparation Group Report

Date: 10-NOV-1997 20:18
User: NOLTEMEYER

RLIMS15-V1.2

Preparation Run Name: G97B902H

Group ID: G97B902H

Samples: 24

Pos	Laboratory Sample Name	Field Sample Name 1	Field Sample Name 2	Laboratory Sample ID	Laboratory Group Name	Accnt. Number
1	BL-142009-1	BL-142009-1		S97B909G	97C-0426-01	03008
2	QC-142009-1	QC-142009-1		S97B909H	97C-0426-01	03008
3	97C05020	MMMSS1		S97B50K3	97C-0426-01	03008
4	97C05021	MMMSED(D)		S97B50K4	97C-0426-01	03008
5	97C05022	MMMNS3		S97B50K5	97C-0426-01	03008
6	97C05023	MMMND2		S97B50K6	97C-0426-01	03008
7	97C05024	MMMNS2		S97B50K7	97C-0426-01	03008
8	97C05025	PPPNS2		S97B50K8	97C-0426-01	03008
9	97C05026	PPPND2		S97B50K9	97C-0426-01	03008
10	97C05027	PPPND1		S97B50KB	97C-0426-01	03008
11	97C05028	PPPNS1		S97B50KC	97C-0426-01	03008
12	97C05029	PPPSED(D)		S97B50KD	97C-0426-01	03008
13	97C05030	PPPSED(S)		S97B50KF	97C-0426-01	03008
14	97C05031	OOONS3		S97B50KG	97C-0426-01	03008
15	97C05032	OOOND1		S97B50KH	97C-0426-01	03008
16	97C05033	OOONS1		S97B50KJ	97C-0426-01	03008
17	97C05033MS	OOONS1		S97B50KK	97C-0426-01	03008
18	97C05033MSD	OOONS1		S97B50KL	97C-0426-01	03008
19	97C05034	OOOND2		S97B50KM	97C-0426-01	03008
20	97C05035	OOONS2		S97B50KN	97C-0426-01	03008
21	97C05036	OOOSD2		S97B50KP	97C-0426-01	03008
22	97C05037	OOOSED(D)		S97B50KQ	97C-0426-01	03008
23	97C05038	OOOSED(S)		S97B50KR	97C-0426-01	03008
24	97C05039	OOOSS1		S97B50KS	97C-0426-01	03008

----- END OF LISTING -----

DataChem Laboratories
LIMS - Sample Master System
Analysis Group Report

Date: 12-NOV-1997 09:52
User: TAYLORC

RLIMS15-V1.2

Analysis Run Name: G97BC00F

Group ID: G97BC00F

Samples: 24

Pos	Laboratory Sample Name	Field Sample Name 1	Field Sample Name 2	Laboratory Sample ID	Laboratory Group Name	Accnt. Number
1	BL-142009-1	BL-142009-1		S97B909G	97C-0426-01	03008
2	QC-142009-1	QC-142009-1		S97B909H	97C-0426-01	03008
3	97C05020	MMMSS1		S97B50K3	97C-0426-01	03008
4	97C05021	MMMSED(D)		S97B50K4	97C-0426-01	03008
5	97C05022	MMMNS3		S97B50K5	97C-0426-01	03008
6	97C05023	MMMND2		S97B50K6	97C-0426-01	03008
7	97C05024	MMMNS2		S97B50K7	97C-0426-01	03008
8	97C05025	PPPNS2		S97B50K8	97C-0426-01	03008
9	97C05026	PPPND2		S97B50K9	97C-0426-01	03008
10	97C05027	PPPND1		S97B50KB	97C-0426-01	03008
11	97C05028	PPPNS1		S97B50KC	97C-0426-01	03008
12	97C05029	PPPSED(D)		S97B50KD	97C-0426-01	03008
13	97C05030	PPPSED(S)		S97B50KF	97C-0426-01	03008
14	97C05031	OOONS3		S97B50KG	97C-0426-01	03008
15	97C05032	OOOND1		S97B50KH	97C-0426-01	03008
16	97C05033	OOONS1		S97B50KJ	97C-0426-01	03008
17	97C05033MS	OOONS1		S97B50KK	97C-0426-01	03008
18	97C05033MSD	OOONS1		S97B50KL	97C-0426-01	03008
19	97C05034	OOOND2		S97B50KM	97C-0426-01	03008
20	97C05035	OOONS2		S97B50KN	97C-0426-01	03008
21	97C05036	OOOSD2		S97B50KP	97C-0426-01	03008
22	97C05037	OOOSED(D)		S97B50KQ	97C-0426-01	03008
23	97C05038	OOOSED(S)		S97B50KR	97C-0426-01	03008
24	97C05039	OOOSS1		S97B50KS	97C-0426-01	03008

----- END OF LISTING -----

Earliest Sampling Date: 5-Nov-1997

DataChem Laboratories
CHAIN-OF-CUSTODY

Results due by: 26-Nov-1997

Project/Job/Task: P97B5002 | *Split:* | **Root Set ID:** 97C-0426 * | **Reporting Group**

Client: Roy F. Weston | **Account:** 03008

Comments:

Verified: HM 11-6-97

Date Sampled	Field ID Number	DCL Sample Name	DCL Sample ID	QC	Matrix	Customer ID 2					01 PCBs	02 Solids (Decanted)	03 Solids (Total)							# Bottles
5-Nov-1997	MMMSS1	97C05020			SOIL						X	X	X							1
5-Nov-1997	MMMSED(D)	97C05021			SOIL						X	X	X							1
5-Nov-1997	MMMNS3	97C05022			SOIL						X	X	X							1
5-Nov-1997	MMMND2	97C05023			SOIL						X	X	X							1
5-Nov-1997	MMMNS2	97C05024			SOIL						X	X	X							1
5-Nov-1997	PPPNS2	97C05025			SOIL						X	X	X							1
5-Nov-1997	PPPND2	97C05026			SOIL						X	X	X							1
5-Nov-1997	PPPND1	97C05027			SOIL						X	X	X							1
5-Nov-1997	PPPNS1	97C05028			SOIL						X	X	X							1
5-Nov-1997	PPPSED(D)	97C05029			SOIL						X	X	X							1

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Walk-in/ Room/ Shelf/ Fridge [signature]	11-6-97 1800	R23-1 [signature]	Labeling/Shelving CO2
R-23-1 [initials]	11-10-97 2335	Walk-in/ Room/ Shelf/ Fridge Kevin Noltemeyer	Storage: Ext

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: PCB | Lab Notebook No.: 194 p57

Prepared/Analyzed by: Kevin Noltemeyer | Date/Time: 11-11-97 0300

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Kevin Noltemeyer	11.11.97 0345	C.R. Newton	Conc.
C.R. Newton	11.11.97 0745	R.16.1C CRA	Storage
R-16-1C [initials]	11-12-97 1600	[signature]	8080 Analysis R-72-1

Check box if there is a continuation page ☐

Printed 11/6/1997 16:58

Form: COFC1.0F SWV2.30

Earliest Sampling Date: 5-Nov-1997

DataChem Laboratories
CHAIN-OF-CUSTODY

Results due by: 26-Nov-1997

Project/Job/Task: P97B5002 | *Split:* | **Root Set ID:** 97C-0426 * | **Reporting Group**

Client: Roy F. Weston | **Account:** 03008

Comments:

Verified: Hm 11-6-97

Date Sampled	Field ID Number	DCL Sample Name	DCL Sample ID	QC	Matrix	Customer ID 2					01 PCBs	02 Solids (Decanted)	03 Solids (Total)							# Bottles
5-Nov-1997	PPPSED(S)	97C05030			SOIL						X	X	X							1
5-Nov-1997	OOONS3	97C05031			SOIL						X	X	X							1
5-Nov-1997	OOOND1	97C05032			SOIL						X	X	X							1
5-Nov-1997	OOONS1	97C05033			SOIL						X	X	X							1
5-Nov-1997	OOONS1	97C05033MS		MS	SOIL						X									1
5-Nov-1997	OOONS1	97C05033MSD		MSD	SOIL						X									1
5-Nov-1997	OOOND2	97C05034			SOIL						X	X	X							1
5-Nov-1997	OOONS2	97C05035			SOIL						X	X	X							1
5-Nov-1997	OOOSD2	97C05036			SOIL						X	X	X							1
5-Nov-1997	OOOSED(D)	97C05037			SOIL						X	X	X							1

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Walk-in/Room/Shelf/Fridge	11-6-97 1800	R23-1	Labeling/Shelving CO2
R-23-1	11-10-97 2335	Walk-in/Room/Shelf/Fridge Kevin Nottenger	Storage: Ex1

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: PCB | Lab Notebook No.: 74 p57

Prepared/Analyzed by: Kevin Nottenger | Date/Time: 11-11-97 0300

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Kevin Nottenger	11-11-97 0345	C.R. Newton	Conc
C.R. Newton	11-11-97 0745	R. H. Tracew	Hosac
R-16-1C	11-12-97 1600		8080A Analysis R-72-1

Check box if there is a continuation page ☐

Printed 11/6/1997 16:59

Form: COFC1.01-SWV2.30

0067

Earliest Sampling Date: 5-Nov-1997

DataChem Laboratories
CHAIN-OF-CUSTODY

Results due by: 26-Nov-1997

Project/Job/Task: P97B5002 | *Split:* | **Root Set ID:** 97C-0426 * | **Reporting Group**

Client: Roy F. Weston | **Account:** 03008

Comments:

Verified: HM 11-6-97

Date Sampled	Field ID Number	DCL Sample Name	DCL Sample ID	QC	Matrix	Customer ID 2					01 PCBs	02 Solids (Decant-ed)	03 Solids (Total)							# Bottles
5-Nov-1997	OOOSED(S)	97C05038			SOIL						X	X	X							1
5-Nov-1997	OOOSS1	97C05039			SOIL						X	X	X							1

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Walk-in/~~Room~~/Shelf/Fridge	11-6-97 1800	R23-1	Labeling/Shelving CO2
R-23-1	11-10-97 2335	Walk-in/ Room/ Shelf/ Fridge Kevin Oltemeyer	Storage: EXT

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: PCB | Lab Notebook No.: 154 p 57

Prepared/Analyzed by: Kevin Oltemeyer | Date/Time: 11-11-97 0300

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Kevin Oltemeyer	11-11-97 0345	C.R. Newton	Cons
C.R. Newton	11-11-97 0345	R. Hi Yacer	Storage
R-16IC	11-12-97 1600	D. [illegible]	8080A Analysis R-72-1

Check box if there is a continuation page ☐

Form: COFC1.01 SWV2.30

Printed 11/6/1997 16:59

008

Sample Work Order

QC Clearance: _____

Project Manager: Scott B. Saulls

Client: Roy F. Weston

Account: 03008 **SDG:** MMMND2

Project/Task: P97B5002

Date Received: 6-Nov-1997

Date for Mailing Report: 26-Nov-1997

Date for Verbal Report: 20-Nov-1997

DCL Root Set ID: 97C-0426 *

DCL Lab. Name: 97C05020–97C05039

Total # Samples: 22

Sample Entry: Michael D McMillan

Section: ZC

Earliest Sampling Date: 5-Nov-1997

Preparation Type:

Rep. Group	ZC Section Analytes Requested	Latest Prep. Date	Latest Anal. Date	No. of Samp.	Storage Location	Analysis/Prep. Method	Inst.	Matrix
01	PCBs	12-Nov-1997[c]	Prep+40 d	22		8080A/3550A	GC/ECD	SOIL

[c]Based on date of collection

Special Instructions: _____

Section Manager: Richard W. Wade

Other Sections Receiving Sample Portions: FC, FS

0069

Sample Work Order

QC Clearance: _____

Project Manager: Scott B. Saulls

Client: Roy F. Weston

Account: 03008 **SDG:** MMMND2

Project/Task: P97B5002

Date Received: 6-Nov-1997

Date for Mailing Report: 26-Nov-1997

Date for Verbal Report: 20-Nov-1997

DCL Root Set ID: 97C-0426 *

DCL Lab. Name: 97C05020–97C05039

Total # Samples: 20

Sample Entry: Michael D McMillan

Section: FC

Earliest Sampling Date: 5-Nov-1997

Preparation Type:

Rep. Group	FC Section Analytes Requested	Latest Prep. Date	Latest Anal. Date	No. of Samp.	Storage Location	Analysis/Prep. Method	Inst.	Matrix
02	Solids (Decanted)			20				SOIL

Special Instructions: _____

Section Manager: Sheldon E. Henderson

Other Sections Receiving Sample Portions: ZC, FS

0070

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, Section 311 of the Clean Water Act, and Subtitle I of the Resource Conservation and Recovery Act (RCRA), EPA has been delegated the responsibility to undertake response actions with respect to the release or potential release of oil, petroleum, or hazardous substances that pose a substantial threat to human health or welfare, or the environment. In addition, EPA provides technical assistance to help mitigate endangerment of the public health, welfare or environment during other emergencies and natural disasters.

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Superfund Technical Assessment and Response Team (START) for each EPA Region. The WESTON START Contract 68-W5-0019 provides support to EPA Region II.

Hazard Communication

The samples which accompany this notice have been shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON START and were tentatively designated by the field response team as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, wells, and off-site soils that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples*. Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a Geiger-Mueller radiation survey meter are considered *Radioactive Samples*.

The samples which accompany this notice have been tentatively classified by the field response team as:

X Environmental ____ Hazardous ____ Comb. (Envir.& Haz.) ____ Radioactive

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions to provide protection against possible radiological or chemical exposure:

____ Level A ____ Level B ____ Level C X Level D

This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The sample classification(s) and Levels of personal protection used by the WESTON START are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgement.

This form was prepared by: M. Mahkopf Date 11/5/97

Analytical Services TDD No. _____ Date __/__/__

WESTON Office: Region II START, Edison, NJ Phone: 908-225-6116 FAX: 908-225-7037

Laboratory Name: Data Chem Lab

/Hazcom for Laboratory Personnel/ To be attached to each Chain-of-Custody Form

DATA CHEM LABORATORIES
A SORENSON COMPANY

Analytical Documentation
Inventory Checklist

- [NA] This is a "dummy datapackage". Data for inventory checklist found with set _____
- [NA] Copy of TCLP Preparation Logbook Pages
- [X] Copy of Sample Preparation Notebook/Logbook Pages
- [X] Copy of Analyst's Notebook/Method Logbook Pages
- [X] Copy of Instrument Injection Logbook/Instrument Logbook/Run Log Pages
- [NA] Copy of Reagent Logbook Pages
- [X] Copy of Working Standard Preparation Logbook Pages
- [X] Copy of Secondary or Intermediate Standard Preparation Logbook Pages
- [X] Copy of Primary Standard or Concentrated Stock Standard Preparation Logbook Pages
- [X] Certificates of Analysis for Standards
- [NA] Copy of Standard Verification Logbook Pages (including documentation for spiking solutions and/or calibration standards)
- [NA] Copy of Preparation Logbooks for solutions prepared by QC

All other miscellaneous documentation associated with this set (describe)

- [X] unconvected PCBs + % SOLIDS

Analytical Documentation
Reviewer Checklist

- [X] The Analytical Documentation Inventory Checklist above is complete.
- [X] Basic documentation procedures were followed in accordance with DCL SOP XX-DC-004 "Analytical Data Record Keeping."
- [X] All notebook and logbook pages contain page number, book number, title, and available space for pagination (if required).
- [X] All notebook and logbook pages were signed and dated by the analyst and reviewer before copying.
- [X] All copies are legible.
- [X] Standard preparation is documented in accordance with DCL SOP XX-DC-019 "Standards Purity, Preparation, Traceability and Verification" or by WR-DC-001 "The Acquisition, Preparation, and use of Radioactive Standard Reference Materials."
- [X] Documentation is provided to verify that standard calibration solutions and spiking solutions are traceable to a vendor certificate.

0072

Assembled by: _____ (Signature) 11/18/97 (Date) Reviewed by: _____ (Signature) 12/5/97 (Date)

Rev. 6/95

Date Set Extracted: 11-11-97
Account No.: 3008
DCL Set No.: 97C-0426-01
Group ID/Lot: ~~GBB~~ G97 B9021H

DATACHEM LABORATORIES EXTRACTION NOTEBOOK

Book No. EXT 194 Page No. 057
Sample Medium: Soil
Extraction Method: 3550/8080

	DCL No.	Field No.	Sample Vol./Wt. (mL/g)	pH Original	pH Adjusted		Spike Sol'n (mL) Surrogate Std.	Spike Sol'n (mL) Matrix		Appearance and Observations	Final Volume (mL)
1	BLK	BL-142009-1	30.0±0.04g				1.0 mL	—	NA	Na_2SO_4	10.0 mL
2	LCS	QC-142009-1						1.0 mL			
3	97C05020	MMM SS1						—		NA	
4	21	SED(D)						—		Standing Water	
5	22	NS3						—		NA	
6	23	ND2						—			
7	24	NS2						—			
8	25	PPP NS2						—			
9	26	ND2						—			
10	27	ND1						—			
11	28	NS1						—			
12	29	SED(D)			NA			—		Standing Water	
13	30	SED(S)						—		NA	
14	31	OOO NS3						—			
15	32	ND1						—			
16	33	NS1						—			
17	33MS							1.0 mL			
18	33MSD							1.0 mL			
19	34	ND2						—			
20	35	NS2						—			
21	36	SD2						—			
22	37	SED(D)						—			
23	38	SED(S)						—		Standing Water	
24	39	SS1						—		NA	
25											

Solvents (+Lot #): $MeCl_2$ B.J. B0151
Acetone Fisher 967647
Hexane B.J. B0207

Sonicator Tuned by: KW Date: 11-11-97
Comments: Sonication Ext

Balance ID: 38110013

Surrogate Std. Ref. No.: 157WS31205 Spiked by: KW
Matrix Spike No.: 138WS27575 Spiked by: KW
Matrix Spike No.: — Spiked by: —
Extractionist: Kevin Nottingham Date: 11-11-97
Checker: C. R. Newton Date: 11.11.97
NCR or CPR

0073

TITLE Roy F Weston SDG MMMND2

Project No. Ø3008
Book No. 3161

DATA CHEM LABORATORIES

Date: 12-NOV-1997 09:52
User: TAYLORC

Page: 1
RLIMS15-V1.2

Analysis Run Name: G97BC00F

Group ID: G97BC00F

Samples: 24

Pos	Laboratory Sample Name	Field Sample Name 1	Field Sample Name 2	Laboratory Sample ID	Laboratory Group Name	Accnt. Number
1	BL-142009-1	BL-142009-1		S97B909G	97C-0426-01	03008
2	QC-142009-1	QC-142009-1		S97B909H	97C-0426-01	03008
3	97C05020	MMMSS1		S97B50K3	97C-0426-01	03008
4	97C05021	MMMSED(D)		S97B50K4	97C-0426-01	03008
5	97C05022	MMMNS3		S97B50K5	97C-0426-01	03008
6	97C05023	MMMND2		S97B50K6	97C-0426-01	03008
7	97C05024	MMMNS2		S97B50K7	97C-0426-01	03008
8	97C05025	PPPNS2		S97B50K8	97C-0426-01	03008
9	97C05026	PPPND2		S97B50K9	97C-0426-01	03008
10	97C05027	PPPND1		S97B50KB	97C-0426-01	03008
11	97C05028	PPPNS1		S97B50KC	97C-0426-01	03008
12	97C05029	PPPSED(D)		S97B50KD	97C-0426-01	03008
13	97C05030	PPPSED(S)		S97B50KF	97C-0426-01	03008
14	97C05031	OOONS3		S97B50KG	97C-0426-01	03008
15	97C05032	OOOND1		S97B50KH	97C-0426-01	03008
16	97C05033	OOONS1		S97B50KJ	97C-0426-01	03008
17	97C05033MS	OOONS1		S97B50KK	97C-0426-01	03008
18	97C05033MSD	OOONS1		S97B50KL	97C-0426-01	03008
19	97C05034	OOOND2		S97B50KM	97C-0426-01	03008
20	97C05035	OOONS2		S97B50KN	97C-0426-01	03008
21	97C05036	OOOSD2		S97B50KP	97C-0426-01	03008
22	97C05037	OOOSED(D)		S97B50KQ	97C-0426-01	03008
23	97C05038	OOOSED(S)		S97B50KR	97C-0426-01	03008
24	97C05039	OOOSS1		S97B50KS	97C-0426-01	03008

12/5/97

Client Name.....: Roy F. Weston
Release Number.....: MMMND2

Matrix.....: SOIL
Reporting Units.....: ug/Kg

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A

DCL Sample Name....: QC-142009-1
Date Printed.....: 18-NOV-97 11:12

DCL Analysis Group: G97BC00F
Analysis Method...: OP-SW-8080
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

QC Limit Type.....: Performance

Analytical Results

Analyte	Date Analysed	Target	Result	Percent Recovery	QC Limits	QC Flag
PCB 1016	13-NOV-97 09:37	167.	187.	112.	53.1/140.	
PCB 1260	13-NOV-97 09:37	167.	186.	112.	48.0/151.	

12/5/97

Client Name.....: Roy F. Weston
Release Number.....: MMMND2

Matrix.....: SOIL
Reporting Units.....: ug/Kg

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A

DCL Sample Name....: 97C05033MS
Date Printed.....: 18-NOV-97 11:12

DCL Analysis Group: G97BC00F
Analysis Method...: OP-SW-8080
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

QC Limit Type.....: Performance

Analytical Results

Analyte	Date Analysed	Sample Result	Spiked Result	Spike Added	Percent Recovery	QC Limits	QC Flag
PCB 1016	16-NOV-97 04:26	14300	6350	167.	-4800	44.0/140.	*
PCB 1260	16-NOV-97 04:26	80200	33100	167.	-28300	48.1/146.	*

97B50KL

DCL Sample Name....: 97C05033MSD

Analytical Results

Analyte	Date Analysed	Duplicate Result	Percent Recovery	Mean	Range	RPD	QC Limits	QC Flag
PCB 1016	16-NOV-97 05:03	15500	685.	10900	9130	94.	0.00/15.8	*
PCB 1260	16-NOV-97 05:03	77300	-1790	55200	44100	80.	0.00/45.9	*

12/5/97

Client Name.....: Roy F. Weston
Release Number.....: MMMND2

Matrix.....: SOIL
Reporting Units.....: ug/Kg

DCL Analysis Group: G97BC00F
Analysis Method...: OP-SW-8080

DCL Prep Group....: G97B902H
Preparation Method: 3550A

QC Limit Type.....: Performance

Surrogate Recoveries

Surr. ID / QC Limits	Dibutylchlorendate 37.0/147.				Tetrachloro-m-xylene 38.4/156.							
DCL Sample Number	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q	Analyte Result	Spiked Amount	% Rec.	Q
97C05020	95.1	16.7	571.	*	17.5	16.7	105.					
97C05021	153.	16.7	930.	*	19.7	16.7	118.					
97C05022	123.	16.7	738.	*	23.8	16.7	143.					
97C05023	19.8	16.7	119.		30.5	16.7	183.	*				
97C05024	74.7	16.7	448.	*	19.4	16.7	116.					
97C05025	109.	16.7	651.	*	17.8	16.7	107.					
97C05026	2630	16.7	15800	*	22.8	16.7	137.					
97C05027	326.	16.7	1960	*	24.0	16.7	144.					
97C05028	230.	16.7	1380	*	28.5	16.7	171.	*				
97C05029	21.2	16.7	127.		21.8	16.7	131.					
97C05030	50.7	16.7	304.	*	15.3	16.7	91.8					
97C05031	365.	16.7	2180	*	19.6	16.7	118.					
97C05032	14.8	16.7	88.8		19.0	16.7	114.					
97C05033	1700	16.7	10200	*	23.3	16.7	140.					
97C05033MS	1370	16.7	8220	*	18.4	16.7	110.					
97C05033MSD	1650	16.7	9900	*	28.5	16.7	171.	*				
97C05034	572.	16.7	3430	*	24.3	16.7	146.					
97C05035	153.	16.7	916.	*	18.6	16.7	112.					
97C05036	146.	16.7	876.	*	17.0	16.7	102.					
97C05037	10.8	16.7	64.8		21.2	16.7	127.					
97C05038	111.	16.7	666.	*	16.6	16.7	99.6					
97C05039	137.	16.7	822.	*	17.9	16.7	107.					
BL-142009-1	13.5	16.7	81.0		24.9	16.7	149.					
QC-142009-1	29.3	16.7	176.	*	25.3	16.7	152.					

12/5/97

method: 8080A analyte: PCBs dates of analysis 11/13-16/97
matrix: soil aliquot: 0.030 kg extraction method: 3550C date 11/11/97

instrument: (GC/ECD-18) HP5890 GC w/ DB-608 column (30m × 0.53mm id × 0.50μm) & ECD (Ch 83).

oven program: 150C × 2min; ramp @ 5C/min to 275C; hold 7 min.

standards: All calibration curves meet method specifications. All ICV recoveries are within ±25%. All CCV recoveries are within ±15% with exception of PCB1260 in CCV#3 (-15.2%).

samples: All tetrachloro-m-xylene surrogate recoveries are in control with exception of recoveries from samples 97CØ5023, 5028 & 5033 MSD. The dibutylchlorendate recovery for sample 97CØ5023 was in control, therefore only samples 97CØ5028 & 5033 MSD fail to meet surrogate acceptance criteria.

All QC recoveries are in control. All MS/MSD results are out of control. Samples were analyzed at 1:2000 dilutions therefore spikes were diluted out.

dilutions:
1:1 blank, QC, 97CØ5023, 5037
1:5 97CØ5032
1:10 97CØ5029
1:50 97CØ5020, 5021, 5022, 5024, 5025, 5030
1:100 97CØ5035, 5036, 5038, 5039
1:200 97CØ5027, 5028
1:500 97CØ5031, 5034
1:2000 97CØ5026, 5033, MS, MSD

To Page No. 74

Witnessed & Understood by me, | Date 12/5/97 | Invented by NOT APPLICABLE | Date 12/5/97
Recorded by

Project No. 3416
Book No.

DATA CHEM LABORATORIES

TITLE DATACHEM LABORATORIES – GC – PESTICIDE ANALYSIS

From Page No.

Customer: Ray F. Weston
Sample(s): 97C-0429-04 & 97C-0426-01
Analyst: J. Chris Taylor
Method: 8080A Run Time: 52 hrs

DATACHEM LABORATORIES GC-PESTICIDE ANALYSIS
INJECTION LOGBOOK FOR GC ECD/18

Sequence File = DISK:[TAYLORC]5997316.SEQ;6 Data Directory = DISK:[T

Seq#	Rep#	Sample Name / Sample Notes	Data Filename	Acquisition Time
1	1	PRIME	5997316001.RAW;1	12-NOV-1997 10:40:24
2	1	PRIME	5997316002.RAW;1	12-NOV-1997 11:32:34
3	1	PCB221_2.0 138-WS-27569-1	5997316003.RAW;1	12-NOV-1997 13:15:42
4	1	PCB232_2.0 138-WS-27570-1	5997316004.RAW;1	12-NOV-1997 15:57:26
5	1	PCB242_2.0 138-WS-27571-1	5997316005.RAW;1	12-NOV-1997 17:52:23
6	1	PCB248_2.0 138-WS-27572-1	5997316006.RAW;1	12-NOV-1997 18:29:45
7	1	PCB254_2.0 138-WS-27591-1	5997316007.RAW;1	12-NOV-1997 19:07:10
8	1	$1660_2.0 138-WS-27590-1	5997316008.RAW;1	12-NOV-1997 19:44:14
9	1	$1660_1.0 138-WS-27590-2	5997316009.RAW;1	12-NOV-1997 20:21:40
10	1	$1660_.20 138-WS-27590-3	5997316010.RAW;1	12-NOV-1997 20:59:03
11	1	$1660_.10 138-WS-27590-4	5997316011.RAW;1	12-NOV-1997 21:36:06
12	1	$1660_.02 138-WS-27588-1	5997316012.RAW;1	12-NOV-1997 22:13:27
13	1	ICV_1660_1.0 138-WS-27589-1	5997316013.RAW;1	12-NOV-1997 22:50:53
23	1	CCV1660_1.0 138-WS-27590-2	5997316023.RAW;1	13-NOV-1997 05:04:51
24	1	BL-142021-1 97C-0429-04	5997316024.RAW;1	13-NOV-1997 05:42:14
25	1	QC-142021-1 97C-0429-04	5997316025.RAW;1	13-NOV-1997 06:19:39
26	1	97C05082 97C-0429-04	5997316026.RAW;1	13-NOV-1997 06:56:58
27	1	97C05021 97C-0426-01	5997316027.RAW;1	13-NOV-1997 07:34:21
28	1	BL-142009-1 97C-0426-01	5997316028.RAW;1	13-NOV-1997 09:00:28
29	1	QC-142009-1 97C-0426-01	5997316029.RAW;1	13-NOV-1997 09:37:52
30	1	97C05020 97C-0426-01	5997316030.RAW;1	13-NOV-1997 10:15:13
31	1	97C05022 97C-0426-01	5997316031.RAW;1	13-NOV-1997 10:52:36
32	1	97C05023 97C-0426-01	5997316032.RAW;1	13-NOV-1997 11:29:55
33	1	97C05024 97C-0426-01	5997316033.RAW;1	13-NOV-1997 12:07:18
34	1	CCV1660_1.0 138-WS-27590-2	5997316034.RAW;1	13-NOV-1997 12:44:39
35	1	97C05025 97C-0426-01	5997316035.RAW;1	13-NOV-1997 13:22:03
36	1	97C05026 97C-0426-01	5997316036.RAW;1	13-NOV-1997 13:59:24
37	1	97C05027 97C-0426-01	5997316037.RAW;1	13-NOV-1997 14:36:45
38	1	97C05028 97C-0426-01	5997316038.RAW;1	13-NOV-1997 15:14:06
39	1	97C05029 97C-0426-01	5997316039.RAW;1	13-NOV-1997 15:51:32
40	1	97C05030 97C-0426-01	5997316040.RAW;1	13-NOV-1997 16:28:54
41	1	97C05031 97C-0426-01	5997316041.RAW;1	13-NOV-1997 17:06:19
42	1	97C05033 97C-0426-01	5997316042.RAW;1	13-NOV-1997 17:43:37
43	1	97C05033MS 97C-0426-01	5997316043.RAW;1	13-NOV-1997 18:21:00
44	1	97C05033MSD 97C-0426-01	5997316044.RAW;1	13-NOV-1997 18:58:18
45	1	CCV1660_1.0 138-WS-27590-2	5997316045.RAW;1	13-NOV-1997 19:35:42
46	1	97C05032 97C-0426-01	5997316046.RAW;1	13-NOV-1997 20:12:57
47	1	97C05034 97C-0426-01	5997316047.RAW;1	13-NOV-1997 20:50:19
48	1	97C05035 97C-0426-01	5997316048.RAW;1	13-NOV-1997 21:27:35
49	1	97C05036 97C-0426-01	5997316049.RAW;1	13-NOV-1997 22:05:01
50	1	97C05037 97C-0426-01	5997316050.RAW;1	13-NOV-1997 22:42:24
51	1	97C05038 97C-0426-01	5997316051.RAW;1	13-NOV-1997 23:19:48
52	1	97C05039 97C-0426-01	5997316052.RAW;1	13-NOV-1997 23:57:10
53	1	CCV1660_1.0 138-WS-27590-2	5997316053.RAW;1	14-NOV-1997 00:34:33
54	1	PRIME	5997316054.RAW;1	15-NOV-1997 13:08:53
55	1	CCV1660_1.0 138-WS-27590-2	5997316055.RAW;1	15-NOV-1997 13:46:17
56	1	$1254_2.0 138-WS-27591	5997316056.RAW;1	15-NOV-1997 14:23:39
57	1	$1254_1.0 138-WS-27591	5997316057.RAW;1	15-NOV-1997 15:01:05
59	1	$1254_0.10 138-WS-27591	5997316059.RAW;1	15-NOV-1997 17:51:01
60	1	$1254_0.20 138-WS-27591	5997316060.RAW;1	15-NOV-1997 18:28:20
61	1	$1254_0.02 138-WS-27591	5997316061.RAW;1	15-NOV-1997 19:05:38
62	1	ICV1254_1.0	5997316062.RAW;1	15-NOV-1997 19:43:06
63	1	97C05021 X50 97C-0426-01	5997316063.RAW;1	15-NOV-1997 20:20:30
64	1	97C05020 X50 97C-0426-01	5997316064.RAW;1	15-NOV-1997 20:57:54
65	1	97C05022 X50 97C-0426-01	5997316065.RAW;1	15-NOV-1997 21:35:13
66	1	97C05024 X50 97C-0426-01	5997316066.RAW;1	15-NOV-1997 22:12:36
67	1	97C05025 X50 97C-0426-01	5997316067.RAW;1	15-NOV-1997 22:49:57
68	1	97C05026 X2000 97C-0426-01	5997316068.RAW;1	15-NOV-1997 23:27:23
69	1	97C05027 X200 97C-0426-01	5997316069.RAW;1	16-NOV-1997 00:04:44
70	1	97C05028 X200 97C-0426-01	5997316070.RAW;1	16-NOV-1997 00:42:06
71	1	97C05029 X10 97C-0426-01	5997316071.RAW;1	16-NOV-1997 01:19:26
72	1	97C05030 X50 97C-0426-01	5997316072.RAW;1	16-NOV-1997 01:56:49
73	1	CCV1660_1.0 138-WS-27590-2	5997316073.RAW;1	16-NOV-1997 02:34:10
74	1	97C05031 X500 97C-0426-01	5997316074.RAW;1	16-NOV-1997 03:11:34
75	1	97C05033 X2000 97C-0426-01	5997316075.RAW;1	16-NOV-1997 03:48:55
76	1	97C05033MS X2000 97C-0426-01	5997316076.RAW;1	16-NOV-1997 04:26:17
77	1	97C05033MSD X2000 97C-0426-01	5997316077.RAW;1	16-NOV-1997 05:03:38
78	1	97C05032 X5 97C-0426-01	5997316078.RAW;1	16-NOV-1997 05:41:01
79	1	97C05034 X500 97C-0426-01	5997316079.RAW;1	16-NOV-1997 06:18:22
80	1	97C05035 X100 97C-0426-01	5997316080.RAW;1	16-NOV-1997 06:55:43
81	1	97C05036 X100 97C-0426-01	5997316081.RAW;1	16-NOV-1997 07:33:02
82	1	97C05038 X100 97C-0426-01	5997316082.RAW;1	16-NOV-1997 08:10:25
83	1	97C05039 X100 97C-0426-01	5997316083.RAW;1	16-NOV-1997 08:47:46
84	1	CCV1660_1.0 138-WS-27590-2	5997316084.RAW;1	16-NOV-1997 09:25:08

11/13/97

11/18/97

column: DB-608

11/18/97

11/18/97

To Page No.

Witnessed & Understood by me,	Date	Invented by NOT APPLICABLE	Date
Lawrence E. Smith	11/18/97	Recorded by	11/18/97

WORKING STANDARDS

STANDARD PREPARATION LOGBOOK NO. 138WS

Page No. 169

138 WS 27569 DCL WORKING STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1221

Solvent Hexane Vendor B&J Grade Pest. Lot BL891

	Compound	Intermediate Standard or Parent Solution	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1221	36IS7181	100	0.2	10	2.0
2.	↓	↓	↓	0.1	↓	1.0
3.	↓	36IS7181	10	0.2	↓	0.20
4.	↓	↓	↓	0.1	↓	0.10
5.	↓	↓	↓	0.02	↓	0.02
6.						
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20.						

9/15/97

SS

EXPIRATION DATE 3/15/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/15/97

Checked By: Vicki Tsai Supervisor:

Comments:

STANDARD SOLUTIONS OF INTERMEDIATE CONCENTRATION

STANDARD PREPARATION LOGBOOK NO. 36 IS

Page No. 181

36 IS 7181 DCL INTERMEDIATE STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1221

Solvent Hexane Vendor B & J Grade Pest. Lot BL 891

	Compound	Stock Std or Parent Solution ID No.	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1221	36CS07123	1000	1	10	100
2.	TCMX	36CS 0 7127	↓	0.2	↓	MIX 20
3.	DCB	36CS 7126	↓	0.2	↓	20
4.	PCB 1221	36IS 7181	100	1	10	10
5.						
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7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						

9/15/97

SLS

EXPIRATION DATE 3/15/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/15/97

Checked By: Vicki Tsai Supervisor:

Comments:

0076A

CS 12/9/97

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 123

36 CS 07123 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: PCB 1221

Vendor: Chem Service Lot No.: 119-18C (F108) Purity: 0

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value 0.1 g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00508 g

TARE WEIGHT 0 g

NET WEIGHT 0.00508 g

NET WEIGHT CORRECTED FOR PURITY 5.08 mg

Purity Correction —

Solvent toluene Vendor B&J Grade Pesticide Lot B0165

Dilution Volume 5.08 mL

FINAL CONCENTRATION ~~5~~ SS 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Stacei Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor: _____

Comments: _____

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 127

36 CS 07127 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: TCMX

Vendor: Aldrich Lot No.: 0052481(KY) Purity: 0

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value 0.1 g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00493 g

TARE WEIGHT 0 g

NET WEIGHT 0.00493 g

NET WEIGHT CORRECTED FOR PURITY 4.93 mg

Purity Correction —

Solvent Toluene Vendor B&J Grade Pesticide Lot B0165

Dilution Volume 4.93 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor: [illegible]

Comments:

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 126

36 cs 07126 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: DCB

Vendor: Chem Service Lot No.: 136-76A (F850) Purity: 99%

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value 0.1 g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00853 g

TARE WEIGHT 0 g

NET WEIGHT 0.00853 g

NET WEIGHT CORRECTED FOR PURITY 8.53 mg

Purity Correction 8.45 mg

Solvent toluene Vendor B+J Grade Pesticide Lot B0165

Dilution Volume 8.45 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor:

Comments:

WORKING STANDARDS

STANDARD PREPARATION LOGBOOK NO. 138WS

Page No. 170

138WS 27570 DCL WORKING STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1232

Solvent Hexane Vendor B&J Grade Pest Lot BL891

	Compound	Intermediate Standard or Parent Solution	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1232	36IS 7182	100	0.2	10	2.0
2.				0.1		1.0
3.		36IS7182	10	0.2		0.20
4.				0.1		0.10
5.				0.02		0.02
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EXPIRATION DATE 3/16/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/16/97

Checked By: Vicki Tsai Supervisor:

Comments:

0080

STANDARD SOLUTIONS OF INTERMEDIATE CONCENTRATION

STANDARD PREPARATION LOGBOOK NO. 36 IS

Page No. 182

36 IS 7182 DCL INTERMEDIATE STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1232

Solvent Hexane Vendor B&J Grade Pest. Lot BL891

	Compound	Stock Std or Parent Solution ID No.	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1232	36IS 7172	1000	1	10	100
2.	TCMX	36CS 7127	↓	0.2	↓	Mix 20
3.	DCB	36CS 7126	↓	0.2	↓	20
4.	PCB 1232	36IS 7182	100	1	10	10
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9/16/97

EXPIRATION DATE 3/16/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/16/97

Checked By: Vicki Tai Supervisor:

Comments:

0081

STANDARD SOLUTIONS OF INTERMEDIATE CONCENTRATION

STANDARD PREPARATION LOGBOOK NO. 36 IS

Page No. 172

36 IS 7172 DCL INTERMEDIATE STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1016, 1232 48

Solvent toluene Vendor B&J Grade Pesticide Lot B0165

	Compound	Stock Std or Parent Solution ID No.	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1016	NSI 125-07-01	5000	1.0	5.0	1000
2.	PCB 1232 48 SS	NSI 108-01-06	5000	1.0	5.0	1000
3.	PCB 1232	NSI 107-01-07	~~5000~~ 1000 SS 9/16/97	~~1.0~~ 5 SS 9/16/97	~~5~~ 5 SS 9/16/97	1000
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SS 9/16/97

EXPIRATION DATE 3/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/98

Checked By: Vicki Tsai Supervisor:

Comments:

0082

Certificate of Analysis

Compound Name: PCB-1232
Lot Number: E-107-01-07
Expiration Date: 8/98

CAS Number: 11141-16-5
Molecular Wt.: 222.8
Molecular Formula: Mixture of congeners, primarily $C_{12}H_9Cl$, $C_{12}H_8Cl_2$, & $C_{12}H_7Cl_3$

NSI STANDARD SOLUTION

ANALYTE	GRAVIMETRIC CONCENTRATION	PURITY	SOLVENT
PCB-1232 (CARCINOGEN)	1010 ug/mL	Technical Mix	Methanol (FLAMMABLE, IRRITANT)

Preparation: Concentration is calculated from wt/vol or vol/vol measurements using microbalances calibrated with NIST traceable weights to 0.0001g and/or ASTM Class A volumetric glassware or calibrated equivalent labware.

NSI Environmental Solution's Method of Analysis: GC/FID Megabore DB-1 Column

Verification: Concentration and lot homogeneity are verified by NSI after ampuling. A quality control sample was included in the analysis and both the standard solution and the QC sample were prepared independently from the calibration solution.

STORAGE & HANDLING

Store at ≤ 5°C. Allow to equilibrate to room temperature before use.

A Material Safety Data Sheet (MSDS) is enclosed for the solvent. MSDSs for the components comprising greater than 1.0% of the solution or 0.1% for components which are known to be carcinogens are available upon request.

Produced by:

NSI Environmental Solutions
PO Box 12313, Research Triangle Park, NC 27709
1-800-234-7837

STANDARD SOLUTIONS OF INTERMEDIATE CONCENTRATION

STANDARD PREPARATION LOGBOOK NO. 36 IS

Page No. 172

36 IS 7172 DCL INTERMEDIATE STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1016, 1232 SS 48

Solvent Toluene Vendor B&J Grade Pesticide Lot B0165

	Compound	Stock Std or Parent Solution ID No.	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1016	NSI 125-07-01	5000	1.0	5.0	1000
2.	PCB 1232 48 SS	NSI 108-01-06	5000	1.0	5.0	1000
3.	PCB 1232	NSI 107-01-07	~~5000~~ 1000 SS 9/16/97	~~1.0~~ SS 9/16/97	~~5~~ SS 9/16/97	1000
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a/15/97

EXPIRATION DATE 3/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/98

Checked By: Vicki Tsai Supervisor:

Comments:

0084

Certificate of Analysis

Compound Name: PCB-1016
Lot Number: W-125-07-01
Expiration Date: 12/99

CAS Number: 12674-11-2
Molecular Wt.: 240 (Average)
Molecular Formula: Mixture of congeners, primarily $C_{12}H_8Cl_2$ & $C_{12}H_7Cl_3$

NSI STANDARD SOLUTION

ANALYTE	GRAVIMETRIC CONCENTRATION	CHROMATOGRAPHIC PURITY	SOLVENT
PCB-1016 (CARCINOGEN)	5001 ug/mL	Technical Mix	Iso-octane (FLAMMABLE, IRRITANT)

Preparation: Reported concentration value has been corrected for purity using purity values obtained by NSI analysts. Concentration is calculated from wt/vol or vol/vol measurements using microbalances calibrated with NIST traceable weights to 0.0001g and/or ASTM Class A volumetric glassware or calibrated equivalent labware.

NSI Environmental Solution's Method of Analysis: GC/FID RTX-5 Column

Verification: Concentration and lot homogeneity are verified by NSI after ampuling. A quality control sample was included in the analysis and both the standard solution and the QC sample were prepared independently from the calibration solution.

STORAGE & HANDLING

Store at ≤ 5°C. Allow to equilibrate to room temperature before use.

A Material Safety Data Sheet (MSDS) is enclosed for the solvent. MSDSs for the components comprising greater than 1.0% of the solution or 0.1% for components which are known to be carcinogens are available upon request.

Produced by:

NSI Environmental Solutions
PO Box 12313, Research Triangle Park, NC 27709
1-800-234-7837

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 127

36 CS 07127 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: TCMX

Vendor: Aldrich Lot No.: 0052481(KY) Purity: 0

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value 0.1 g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00493 g

TARE WEIGHT 0 g

NET WEIGHT 0.00493 g

NET WEIGHT CORRECTED FOR PURITY 4.93 mg

Purity Correction —

Solvent Toluene Vendor B&J Grade Pesticide Lot B0165

Dilution Volume 4.93 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor:

Comments:

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 126

36 cs 07126 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: DCB

Vendor: Chem Service Lot No.: 136-76A (F850) Purity: 99%

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value 0.1 g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00853 g

TARE WEIGHT 0 g

NET WEIGHT 0.00853 g

NET WEIGHT CORRECTED FOR PURITY 8.53 mg

Purity Correction 8.45 mg

Solvent toluene Vendor B+J Grade Pesticide Lot B0165

Dilution Volume 8.45 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor:

Comments:

0087

WORKING STANDARDS

STANDARD PREPARATION LOGBOOK NO 138WS

Page No. 171

138 WS 27571 DCL WORKING STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1242

Solvent Hexane Vendor B&J Grade Pest. Lot B0207

	Compound	Intermediate Standard or Parent Solution	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1242	36IS7183	100	0.2	10	2.0
2.	↓	↓	↓	0.1	↓	1.0
3.	↓	36IS7183	10	0.2	↓	0.20
4.	↓	↓	↓	0.1	↓	0.10
5.	↓	↓	↓	0.02	↓	0.02
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SS 9/17/97

EXPIRATION DATE 3/17/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/17/97

Checked By: U. Yai Tsai Supervisor:

Comments:

STANDARD SOLUTIONS OF INTERMEDIATE CONCENTRATION

STANDARD PREPARATION LOGBOOK NO. 36 IS

Page No. 183

36 IS 7183 DCL INTERMEDIATE STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1242

Solvent Hexane Vendor B&J Grade Pest. Lot BL891

	Compound	Stock Std or Parent Solution ID No.	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1242	36CS07125	1000	1	10	100
2.	TCMX	36CS 7127	↓	0.2	↓	Mix 20
3.	DCB	36CS 7127	↓	0.2	↓	20
4.	PCB ~~1440~~ 1242 SS 9/16/97	36IS 7183	100	1	10	10
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SS 9/16/97

EXPIRATION DATE 3/16/97

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/16/97

Checked By: Vicki Tsai Supervisor:

Comments:

0089

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 125

36 CS 07125 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: PCB 1242

Vendor: Chem Service Lot No.: 160-142D (F109) Purity: 0

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value 0.1 g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00698 g

TARE WEIGHT 0 g

NET WEIGHT 0.00698 g

NET WEIGHT CORRECTED FOR PURITY 6.98 mg

Purity Correction —

Solvent toluene Vendor B&J Grade Pesticide Lot B0165

Dilution Volume 6.98 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor:

Comments:

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 127

36 CS 07127 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: TCMX

Vendor: Aldrich Lot No.: 0052481(KY) Purity: 0

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value 0.1 g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00493 g

TARE WEIGHT 0 g

NET WEIGHT 0.00493 g

NET WEIGHT CORRECTED FOR PURITY 4.93 mg

Purity Correction —

Solvent toluene Vendor B&J Grade Pesticide Lot B0165

Dilution Volume 4.93 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor:

Comments:

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 126

36 cs 07126 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: DCB

Vendor: Chem Service Lot No.: 136-76A (F850) Purity: 99%

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value 0.1 g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00853 g

TARE WEIGHT 0 g

NET WEIGHT 0.00853 g

NET WEIGHT CORRECTED FOR PURITY 8.53 mg

Purity Correction 8.45 mg

Solvent toluene Vendor B+J Grade Pesticide Lot B0165

Dilution Volume 8.45 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor:

Comments:

0092

WORKING STANDARDS

STANDARD PREPARATION LOGBOOK NO. 138WS

Page No. 172

138WS 27572 DCL WORKING STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1248

Solvent Hexane Vendor B&J Grade Pest. Lot B0207

	Compound	Intermediate Standard or Parent Solution	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1248	36IS7184	100	0.2	10	2.0
2.	↓	↓	↓	0.1	↓	1.0
3.	↓	36IS7184	10	0.2	↓	0.2
4.	↓	↓	↓	0.1	↓	0.1
5.	↓	↓	↓	0.02	↓	0.02
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15.	9/17/97					
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EXPIRATION DATE 3/17/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/17/97

Checked By: Vicki Tsai Supervisor:

Comments:

0093

STANDARD SOLUTIONS OF INTERMEDIATE CONCENTRATION

STANDARD PREPARATION LOGBOOK NO. 36 IS

Page No. 184

36 IS 7184 DCL INTERMEDIATE STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1248

Solvent Hexane Vendor B&J Grade Rest. Lot BL891

	Compound	Stock Std or Parent Solution ID No.	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1248	36IS7172	1000	1	10	100
2.	TCMX	36CS 7127	↓	0.2	↓	Mix 20
3.	DCB	36CS 7126	↓	0.2	↓	20
4.	PCB 1248	36 IS 7184	100	1	10	10
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9/16/97

SS

EXPIRATION DATE 3/16/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/16/97

Checked By: Vicki Tsai Supervisor:

Comments:

STANDARD SOLUTIONS OF INTERMEDIATE CONCENTRATION

STANDARD PREPARATION LOGBOOK NO. 36 IS

Page No. 172

36 IS 7172 DCL INTERMEDIATE STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1016, 12~~3~~ss 48

Solvent toluene Vendor B&J Grade Pesticide Lot B0165

	Compound	Stock Std or Parent Solution ID No.	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1016	NSI 125-07-01	5000	1.0	5.0	1000
2.	PCB 12~~32~~48ss	NSI 108-01-06	5000	1.0	5.0	1000
3.	PCB 1232	NSI 107-01-07	~~5000~~ 1000 SS 9/15/97	~~1.0~~ SS 9/15/97	~~5~~ SS 9/15/97	1000
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SS 9/15/97

EXPIRATION DATE 3/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/98

Checked By: Vicki Tsai Supervisor:

Comments:

0095

Certificate of Analysis

Compound Name: PCB-1248
Lot Number: E-108-01-06
Expiration Date: 2/99

CAS Number: 12672-29-6
Molecular Wt.: 291.6 (Average)
Molecular Formula: Mixture of congeners, primarily $C_{12}H_6Cl_4$, $C_{12}H_5Cl_5$, & $C_{12}H_7Cl_3$

NSI STANDARD SOLUTION

ANALYTE	GRAVIMETRIC CONCENTRATION	PURITY	SOLVENT
PCB-1248 (CARCINOGEN)	5005 ug/mL	Technical Mix	Iso-octane (FLAMMABLE, IRRITANT)

Preparation: Reported concentration value has been corrected for purity using purity values obtained by NSI analysts. Concentration is calculated from wt/vol or vol/vol measurements using microbalances calibrated with NIST traceable weights to 0.0001g and/or ASTM Class A volumetric glassware or calibrated equivalent labware.

Verification: Concentration and lot homogeneity are verified by NSI after ampuling. A quality control sample was included in the analysis and both the standard solution and the QC sample were prepared independently from the calibration solution.

STORAGE & HANDLING

Store at ≤ 5°C. Allow to equilibrate to room temperature before use.

A Material Safety Data Sheet (MSDS) is enclosed for the solvent. MSDSs for the components comprising greater than 1.0% of the solution or 0.1% for components which are known to be carcinogens are available upon request.

Produced by:

NSI Environmental Solutions
PO Box 12313, Research Triangle Park, NC 27709
1-800-234-7837

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 127

36 CS 07127 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: TCMX

Vendor: Aldrich Lot No.: 0052481(KY) Purity: 0

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value 0.1 g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00493 g

TARE WEIGHT 0 g

NET WEIGHT 0.00493 g

NET WEIGHT CORRECTED FOR PURITY 4.93 mg

Purity Correction —

Solvent Toluene Vendor B&J Grade Pesticide Lot B0165

Dilution Volume 4.93 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor:

Comments:

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 126

36 CS 07126 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: DCB

Vendor: Chem Service Lot No.: 136-76A (F850) Purity: 99%

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value 0.1 g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00853 g

TARE WEIGHT 0 g

NET WEIGHT 0.00853 g

NET WEIGHT CORRECTED FOR PURITY 8.53 mg

Purity Correction 8.45 mg

Solvent toluene Vendor B+J Grade Pesticide Lot B0165

Dilution Volume 8.45 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor:

Comments:

WORKING STANDARDS

STANDARD PREPARATION LOGBOOK NO. 138WS

Page No. 191

138WS27591 DCL WORKING STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1254 Standards- various conc.

Solvent Hexane Vendor B&J Grade Pest Lot B0207

	Compound	Intermediate Standard or Parent Solution	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1254	36IS 7180	100	0.5	25	2.0
2.	↓	↓	↓	0.25	↓	1.0
3.	↓	36IS 7180	10	0.5	↓	0.2
4.	↓	↓	↓	0.25	↓	0.1
5.	↓	↓	↓	0.05	↓	0.02
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SS 10/21/97

EXPIRATION DATE 4/21/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 10/21/97

Checked By: [signature] Supervisor:

Comments:

STANDARD SOLUTIONS OF INTERMEDIATE CONCENTRATION

STANDARD PREPARATION LOGBOOK NO. 36 IS

Page No. 180

36 IS 7180 DCL INTERMEDIATE STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1254

Solvent Hexane Vendor Bag Grade pest Lot BL 891

	Compound	Stock Std or Parent Solution ID No.	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1254	36CS07122	1000	1	10	100
2.	TC mix	36CS07127	↓	0.2	↓	Mix 20
3.	DCB	36CS7126	↓	0.2	↓	20
4.	PCB 1254	36IS7180	100	1	10	10
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9/15/97

EXPIRATION DATE 3/15/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/15/97

Checked By: [illegible] Supervisor:

Comments:

0100

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36CS

Page No. 122

36cs 07122 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: PCB 1254

Vendor: Chem Service Lot No.: 120-15B (F111) Purity: —

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value 0.1 g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00709 g

TARE WEIGHT Ø g

NET WEIGHT 0.00709 g

NET WEIGHT CORRECTED FOR PURITY 7.09 mg

Purity Correction —

Solvent toluene Vendor B&J Grade Pesticide Lot B0165

Dilution Volume 7.09 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 8/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: Vicki Tsai Supervisor:

Comments:

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 127

36 CS 07127 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: TCMX

Vendor: Aldrich Lot No.: 0052481(KY) Purity: 0

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value 0.1 g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00493 g

TARE WEIGHT 0 g

NET WEIGHT 0.00493 g

NET WEIGHT CORRECTED FOR PURITY 4.93 mg

Purity Correction —

Solvent Toluene Vendor B&J Grade Pesticide Lot B0165

Dilution Volume 4.93 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor:

Comments:

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 126

36 cs 07126 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: DCB

Vendor: Chem Service Lot No.: 136-76A (F850) Purity: 99%

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value 0.1 g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00853 g

TARE WEIGHT 0 g

NET WEIGHT 0.00853 g

NET WEIGHT CORRECTED FOR PURITY 8.53 mg

Purity Correction 8.45 mg

Solvent toluene Vendor B+J Grade Pesticide Lot B0165

Dilution Volume 8.45 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor:

Comments:

WORKING STANDARDS

STANDARD PREPARATION LOGBOOK NO138WS

Page No. 133

138WS 27533 DCL WORKING STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1254 - ICV

Solvent Hexane Vendor B & J Grade Pest Lot B0207

	Compound	Intermediate Standard or Parent Solution	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1254	ULTRA K-0827	100	0.25	25	1.0
2.						
3.						
4.						
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7-2-97

EXPIRATION DATE 1-2-98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: [signature] Date of Preparation: 7-2-97

Checked By: [signature] Supervisor:

Comments:

0104

Certificate of Analysis

Aroclor 1254 Solution

Catalog Number: PP-351

Lot Number: K0827
Page: 1

This ULTRAstandard(TM) solution was gravimetrically prepared, and the analyte concentrations were verified using high resolution gas chromatography and/or high performance liquid chromatography. The solution was prepared at the nominal concentration stated on the box label. The true value for each analyte, determined gravimetrically, is listed below.

Component	Weight/mL*
Aroclor 1254 (PCB 1254)	100.5 µg

Solvent: hexane

* All weights are traceable through N.I.S.T. Test No. 732/221797

0105

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WORKING STANDARDS

STANDARD PREPARATION LOGBOOK NO. 138WS

Page No. 190

138WS 27590 DCL WORKING STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1660 Standards - various conc.

Solvent Hexane Vendor B&J Grade Pest Lot B0207

	Compound	Intermediate Standard or Parent Solution	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1660	36IS7179	100	0.5	25	2.0
2.	↓	↓	↓	0.25	↓	1.0
3.	↓	36IS7179	10	0.5	↓	0.2
4.	↓	↓	↓	0.25	↓	0.1
5.	↓	↓	↓	0.125	↓	0.05
6.	↓	↓	↓	0.025	↓	0.01
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SS 10/21/97

EXPIRATION DATE ~~4/21/97~~ 3-15-98 SS 10-21-97

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 10/21/97

Checked By: Supervisor:

Comments:

0106

STANDARD SOLUTIONS OF INTERMEDIATE CONCENTRATION

STANDARD PREPARATION LOGBOOK NO. 36 IS

Page No. 179

36 IS 7179 DCL INTERMEDIATE STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1016/1260

Solvent Hexane Vendor B&J Grade Pest. Lot BL891

	Compound	Stock Std or Parent Solution ID No.	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1016	36IS7172	1000	1	10	100
2.	PCB 1260	~~36IS7178~~ 36CS-7121	↓	1	↓	100
3.	TCMX	36CS07127	✓	0.2	↓	mix 20
4.	DCB	36CS07126	✓	0.2	✓	20
5.	PCB 1016/1260 TCMX DCB	36IS7179	100/20	1.0	10	10/2
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11.						
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13.						
14.						
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9/15/97

EXPIRATION DATE 3/15/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: [illegible] Date of Preparation: 9/15/97

Checked By: Stacy Smith Supervisor:

Comments:

0107

Certificate of Analysis

Compound Name: PCB-1260
Lot Number: W-129-06-01
Expiration Date: 12/99

CAS Number: 11096-82-5
Molecular Wt.: 377.6
Molecular Formula: Mixture of congeners, primarily $C_{12}H_4Cl_6$, $C_{12}H_5Cl_5$, $C_{12}H_6Cl_4$, & $C_{12}H_7Cl_3$

NSI STANDARD SOLUTION

ANALYTE	GRAVIMETRIC CONCENTRATION	PURITY	SOLVENT
PCB-1260 (CARCINOGEN)	5010 ug/mL	Technical Mix	Iso-octane (FLAMMABLE, IRRITANT)

Preparation: Reported concentration value has been corrected for purity using purity values obtained by NSI analysts. Concentration is calculated from wt/vol or vol/vol measurements using microbalances calibrated with NIST traceable weights to 0.0001g and/or ASTM Class A volumetric glassware or calibrated equivalent labware.

NSI Environmental Solution's Method of Analysis: GC/FID DB-5 Column

Verification: Concentration and lot homogeneity are verified by NSI after ampuling. A quality control sample was included in the analysis and both the standard solution and the QC sample were prepared independently from the calibration solution.

STORAGE & HANDLING

Store at ≤ 5°C. Allow to equilibrate to room temperature before use.

A Material Safety Data Sheet (MSDS) is enclosed for the solvent. MSDSs for the components comprising greater than 1.0% of the solution or 0.1% for components which are known to be carcinogens are available upon request.

0108

Produced by:

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CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 127

36 CS 07127 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: TCMX

Vendor: Aldrich Lot No.: 0052481(KY) Purity: 0

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value - 0.1 - g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00493 g

TARE WEIGHT 0 g

NET WEIGHT 0.00493 g

NET WEIGHT CORRECTED FOR PURITY 4.93 mg

Purity Correction —

Solvent Toluene Vendor B&J Grade Pesticide Lot B0165

Dilution Volume 4.93 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor:

Comments:

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 126

36 CS 07126 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: DCB

Vendor: Chem Service Lot No.: 136-76A (F850) Purity: 99%

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value 0.1 g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00853 g

TARE WEIGHT 0 g

NET WEIGHT 0.00853 g

NET WEIGHT CORRECTED FOR PURITY 8.53 mg

Purity Correction 8.45 mg

Solvent toluene Vendor B+J Grade Pesticide Lot B0165

Dilution Volume 8.45 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor:

Comments:

0110

WORKING STANDARDS

STANDARD PREPARATION LOGBOOK NO. 138WS

Page No. 188

138WS 27588 DCL WORKING STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1660 0.02

Solvent Hex Vendor B&J Grade BEST Lot B0207

	Compound	Intermediate Standard or Parent Solution	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1660	138WS 27567-6	2.0	0.1	10.	0.02
2.						
3.						
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EXPIRATION DATE 3-15-98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Lynn Walker Date of Preparation: 10-15-~~98~~ 97 SW

Checked By: _____ Supervisor: _____

Comments: _____

0111

WORKING STANDARDS

STANDARD PREPARATION LOGBOOK NO. 138WS

Page No. 167

138WS27567 DCL WORKING STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1066

Solvent Hexane Vendor B & J Grade pest Lot BL891

	Compound	Intermediate Standard or Parent Solution	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1066	36757179	10	.05 9/15/97	10	0.05 9/15/97
2.	↓	↓	↓	.05	↓	0.05
3.				.1		0.1
4.				.2		0.2
5.		36757179	100	.1		1
6.			100	.2		2
7.						
8.						
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9/15/97

EXPIRATION DATE 3/15/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/15/97

Checked By: Vicki Tsai Supervisor:

Comments:

STANDARD SOLUTIONS OF INTERMEDIATE CONCENTRATION

STANDARD PREPARATION LOGBOOK NO. 36 IS

Page No. 179

36 IS 7179 DCL INTERMEDIATE STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1016/1260

Solvent Hexane Vendor Baxter Grade Pest Lot BL891

	Compound	Stock Std or Parent Solution ID No.	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1016	36IS7172	1000	1	10	100
2.	PCB 1260	~~36IS7178~~ 36CS-7121		1		100
3.	TCMX	36CS07127		0.2		mix 20
4.	DCB	36CS07126		0.2		20
5.	PCB 1066/TCMX DCB	36IS7179	100/20	1.0	10	10/2
6.						
7.						
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11.						
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13.						
14.						
15.						
16.						
17.						
18.						
19.						
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9/15/97

EXPIRATION DATE 3/15/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: [illegible] Date of Preparation: 9/15/97

Checked By: Stan Smith Supervisor:

Comments:

STANDARD SOLUTIONS OF INTERMEDIATE CONCENTRATION

STANDARD PREPARATION LOGBOOK NO. 36 IS

Page No. 172

36 IS 7172 DCL INTERMEDIATE STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 1016, 12~~32~~ 48 SS

Solvent Toluene Vendor B&J Grade Pesticide Lot B0165

	Compound	Stock Std or Parent Solution ID No.	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1016	NSI 125-07-01	5000	1.0	5.0	1000
2.	PCB 12~~32~~48 SS	NSI 108-01-06	5000	1.0	5.0	1000
3.	PCB 1232	NSI 107-01-07	~~5000~~ 1000 SS 9/15/97	~~1.0~~ SS 9/16/97	~~5~~ SS 9/16/97	1000
4.						
5.						
6.						
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9.						
10.						
11.						
12.						
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SS 9/15/97

EXPIRATION DATE 3/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/98

Checked By: Vicki Tsai Supervisor:

Comments:

0114

Certificate of Analysis

Compound Name: PCB-1016
Lot Number: W-125-07-01
Expiration Date: 12/99

CAS Number: 12674-11-2
Molecular Wt.: 240 (Average)
Molecular Formula: Mixture of congeners, primarily $C_{12}H_8Cl_2$ & $C_{12}H_7Cl_3$

NSI STANDARD SOLUTION

ANALYTE	GRAVIMETRIC CONCENTRATION	CHROMATOGRAPHIC PURITY	SOLVENT
PCB-1016 (CARCINOGEN)	5001 ug/mL	Technical Mix	Iso-octane (FLAMMABLE, IRRITANT)

Preparation: Reported concentration value has been corrected for purity using purity values obtained by NSI analysts. Concentration is calculated from wt/vol or vol/vol measurements using microbalances calibrated with NIST traceable weights to 0.0001g and/or ASTM Class A volumetric glassware or calibrated equivalent labware.

NSI Environmental Solution's Method of Analysis: GC/FID RTX-5 Column

Verification: Concentration and lot homogeneity are verified by NSI after ampuling. A quality control sample was included in the analysis and both the standard solution and the QC sample were prepared independently from the calibration solution.

STORAGE & HANDLING

Store at ≤ 5°C. Allow to equilibrate to room temperature before use.

A Material Safety Data Sheet (MSDS) is enclosed for the solvent. MSDSs for the components comprising greater than 1.0% of the solution or 0.1% for components which are known to be carcinogens are available upon request.

Produced by:

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1-800-234-7837

Certificate of Analysis

Compound Name: PCB-1260
Lot Number: W-129-06-01
Expiration Date: 12/99

CAS Number: 11096-82-5
Molecular Wt.: 377.6
Molecular Formula: Mixture of congeners, primarily $C_{12}H_4Cl_6$, $C_{12}H_5Cl_5$, $C_{12}H_6Cl_4$ & $C_{12}H_7Cl_3$

NSI STANDARD SOLUTION

ANALYTE	GRAVIMETRIC CONCENTRATION	PURITY	SOLVENT
PCB-1260 (CARCINOGEN)	5010 ug/mL	Technical Mix	Iso-octane (FLAMMABLE, IRRITANT)

Preparation: Reported concentration value has been corrected for purity using purity values obtained by NSI analysts. Concentration is calculated from wt/vol or vol/vol measurements using microbalances calibrated with NIST traceable weights to 0.0001g and/or ASTM Class A volumetric glassware or calibrated equivalent labware.

NSI Environmental Solution's Method of Analysis: GC/FID DB-5 Column

Verification: Concentration and lot homogeneity are verified by NSI after ampuling. A quality control sample was included in the analysis and both the standard solution and the QC sample were prepared independently from the calibration solution.

STORAGE & HANDLING

Store at ≤ 5°C. Allow to equilibrate to room temperature before use.

A Material Safety Data Sheet (MSDS) is enclosed for the solvent. MSDSs for the components comprising greater than 1.0% of the solution or 0.1% for components which are known to be carcinogens are available upon request.

0116

Produced by:

NSI Environmental Solutions
PO Box 12313, Research Triangle Park, NC 27709
1-800-234-7837

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 127

36 CS 07127 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: TCMX

Vendor: Aldrich Lot No.: 0052481(KY) Purity: 0

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value - 0.1 - g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00493 g

TARE WEIGHT 0 g

NET WEIGHT 0.00493 g

NET WEIGHT CORRECTED FOR PURITY 4.93 mg

Purity Correction —

Solvent Toluene Vendor B&J Grade Pesticide Lot B0165

Dilution Volume 4.93 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor: [illegible]

Comments:

CONCENTRATED STOCK STANDARDS

STANDARD PREPARATION LOGBOOK NO. 36 CS

Page No. 126

36 CS 07126 DCL CONCENTRATED STOCK SOLUTION IDENTIFICATION NUMBER

COMPOUND: DCB

Vendor: Chem Service Lot No.: 136-76A (F850) Purity: 99%

DCL Analytical Balance Identification: 106677

NIST Reference Weight Target Value 0.1 g

NIST Reference Weight Measured Using Balance Identified Above 0.1 g

Difference 0 g

If difference is greater than 0.001 grams: Notify QC. Take corrective action or start over using a different balance.

FINAL GROSS WEIGHT 0.00853 g

TARE WEIGHT 0 g

NET WEIGHT 0.00853 g

NET WEIGHT CORRECTED FOR PURITY 8.53 mg

Purity Correction 8.45 mg

Solvent toluene Vendor B+J Grade Pesticide Lot B0165

Dilution Volume 8.45 mL

FINAL CONCENTRATION 1000 µg/mL

EXPIRATION DATE 9/10/98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: Staci Smith Date of Preparation: 9/10/97

Weight Verified By: [illegible] Supervisor:

Comments:

0118

WORKING STANDARDS

STANDARD PREPARATION LOGBOOK NO. 138WS

Page No. 189

138WS 27589 DCL WORKING STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB ICV 1016/1260

Solvent Hexane Vendor B&J Grade Pest Lot B0207

	Compound	Intermediate Standard or Parent Solution	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1016	ULTRA L0076	100	0.1	10	1.0
2.	PCB 1260	ULTRA K1051	100	0.1	10	1.0
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10-18-97

EXPIRATION DATE 4-18-98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: [illegible] Date of Preparation: 10-18-97

Checked By: [illegible] Supervisor:

Comments:

Certificate of Analysis

Aroclor 1016 Solution

Catalog Number: PP-281

Lot Number: L0076
Page: 1

This ULTRAstandard(TM) solution was gravimetrically prepared, and the analyte concentrations were verified using high resolution gas chromatography and/or high performance liquid chromatography. The solution was prepared at the nominal concentration stated on the box label. The true value for each analyte, determined gravimetrically, is listed below.

Component	Weight/mL*
Aroclor 1016 (PCB 1016)	100.4 µg

Solvent: hexane

* All weights are traceable through N.I.S.T. Test No. 732/221797

0120

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Certificate of Analysis

Aroclor 1260 Solution

Catalog Number: PP-361

Lot Number: K1055
Page: 1

This ULTRAstandard(TM) solution was gravimetrically prepared, and the analyte concentrations were verified using high resolution gas chromatography and/or high performance liquid chromatography. The solution was prepared at the nominal concentration stated on the box label. The true value for each analyte, determined gravimetrically, is listed below.

Component	Weight/mL*
Aroclor 1260 (PCB 1260)	100.5 µg

Solvent: hexane

0121

* All weights are traceable through N.I.S.T. Test No. 732/221797

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WORKING STANDARDS

STANDARD PREPARATION LOGBOOK NO. 157WS

Page No. 005

157WS31205 DCL WORKING STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: 8080 Surrogate Spike

Solvent Acetone Vendor Fisher Grade Pest Lot 967647

	Compound	Intermediate Standard or Parent Solution	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	TCMX	NSI 1180-04-01	200	1.25	500	0.5
2.	DBC	NSI 798-08-01	↓	↓	↓	↓
3.	DCB	NSI 1084-06-03				
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8.						
9.						
10.			97			
11.		31				
12.						
13.		10-				
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EXPIRATION DATE 4-30-98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: [illegible] Date of Preparation: 10-31-97

Checked By: _____ Supervisor: _____

Comments: _____

Certificate of Analysis

Compound Name: 2,4,5,6-Tetrachloro-m-xylene
Lot Number: W-1180-04-01
Expiration Date: 7/98

CAS Number: 877-09-8
Molecular Wt.: 244.0
Molecular Formula: $C_8H_6Cl_4$

NSI STANDARD SOLUTION

ANALYTE	GRAVIMETRIC CONCENTRATION	CHROMATOGRAPHIC PURITY	SOLVENT
2,4,5,6-Tetrachloro-m-xylene	200 ug/mL	97.3 %	Acetone (FLAMMABLE, IRRITANT)

Preparation: Reported concentration value has been corrected for purity using purity values obtained by NSI analysts. Concentration is calculated from wt/vol or vol/vol measurements using microbalances calibrated with NIST traceable weights to 0.0001g and/or ASTM Class A volumetric glassware or calibrated equivalent labware.

NSI Environmental Solution's Method of Analysis: GC/FID DB-608 Column

Verification: Concentration and lot homogeneity are verified by NSI after ampuling. A quality control sample was included in the analysis and both the standard solution and the QC sample were prepared independently from the calibration solution.

STORAGE & HANDLING

Store at ≤ 5°C. Allow to equilibrate to room temperature before use.

A Material Safety Data Sheet (MSDS) is enclosed for the solvent. MSDSs for the components comprising greater than 1.0% of the solution or 0.1% for components which are known to be carcinogens are available upon request.

Produced by:

NSI Environmental Solutions
PO Box 12313, Research Triangle Park, NC 27709
1-800-234-7837

Certificate of Analysis

Compound Name: Dibutyl chlorendate
Lot Number: W-798-08-01
Expiration Date: 4/98

CAS Number: 1770-80-5
Molecular Wt.: 501.06
Molecular Formula: $C_{17}H_{20}Cl_6O_4$

NSI STANDARD SOLUTION

ANALYTE	GRAVIMETRIC CONCENTRATION	CHROMATOGRAPHIC PURITY	SOLVENT
Dibutyl chlorendate	200 ug/mL	98.0 %	Acetone (FLAMMABLE, IRRITANT)

Preparation: Reported concentration value has been corrected for purity using purity values obtained by NSI analysts. Concentration is calculated from wt/vol or vol/vol measurements using microbalances calibrated with NIST traceable weights to 0.0001g and/or ASTM Class A volumetric glassware or calibrated equivalent labware.

NSI Environmental Solution's Method of Analysis: GC/FID XTI-5 Column

Verification: Concentration and lot homogeneity are verified by NSI after ampuling. A quality control sample was included in the analysis and both the standard solution and the QC sample were prepared independently from the calibration solution.

STORAGE & HANDLING

Store at ≤ 5°C. Allow to equilibrate to room temperature before use.

A Material Safety Data Sheet (MSDS) is enclosed for the solvent. MSDSs for the components comprising greater than 1.0% of the solution or 0.1% for components which are known to be carcinogens are available upon request.

0124

Produced by:

NSI Environmental Solutions
PO Box 12313, Research Triangle Park, NC 27709
1-800-234-7837

Certificate of Analysis

Compound Name: Decachlorobiphenyl
Lot Number: W-1084-06-02
Expiration Date: 6/98

CAS Number: 2051-24-3
Molecular Wt.: 498.7
Molecular Formula: $C_{12}Cl_{10}$

NSI STANDARD SOLUTION

ANALYTE	GRAVIMETRIC CONCENTRATION	CHROMATOGRAPHIC PURITY	SOLVENT
Decachlorobiphenyl	203 ug/mL	97.7 %	Acetone (FLAMMABLE, IRRITANT)

Preparation: Reported concentration value has been corrected for purity using purity values obtained by NSI analysts. Concentration is calculated from wt/vol or vol/vol measurements using microbalances calibrated with NIST traceable weights to 0.0001g and/or ASTM Class A volumetric glassware or calibrated equivalent labware.

NSI Environmental Solution's Method of Analysis: GC/FID DB-608 Column

Verification: Concentration and lot homogeneity are verified by NSI after ampuling. A quality control sample was included in the analysis and both the standard solution and the QC sample were prepared independently from the calibration solution.

STORAGE & HANDLING

Store at ≤ 5°C. Allow to equilibrate to room temperature before use.

A Material Safety Data Sheet (MSDS) is enclosed for the solvent. MSDSs for the components comprising greater than 1.0% of the solution or 0.1% for components which are known to be carcinogens are available upon request.

Produced by: NSI Environmental Solutions
PO Box 12313, Research Triangle Park, NC 27709
1-800-234-7837

WORKING STANDARDS

STANDARD PREPARATION LOGBOOK NO. 138 WS

Page No. 135

138 WS 27535 DCL WORKING STANDARD SOLUTION IDENTIFICATION NUMBER

DESCRIPTIVE IDENTIFICATION: PCB 8080 MS

Solvent Acetone Vendor Fisher Grade UV Lot 965882

	Compound	Intermediate Standard or Parent Solution	Concentration of Parent Solution µg/mL	Volume of Aliquot mL	Final Total Volume mL	FINAL CONCENTRATION µg/mL
1.	PCB 1016/1260	NS2 Q-10770	5,000	0.5	500	5.0
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						

7-3-97

EXPIRATION DATE 1-3-98

Refer to applicable contract or method for allowable time period before expiration.

Solution Prepared By: [illegible] Date of Preparation: 7-3-97

Checked By: [illegible] Supervisor:

Comments:

Certificate of Analysis

Mixture Name: PCB Matrix Spike
Lot Number: Q-1077D
(CARCINOGEN)

Expiration Date: 12/96
Solvent: Toluene
(FLAMMABLE, IRRITANT)

CUSTOM REFERENCE SOLUTION

COMPOUND NUMBER	ANALYTE	GRAVIMETRIC CONCENTRATION (ug/mL)	CHROMATOGRAPHIC PURITY (%)
E-0125-01	PCB-1016	5060	Technical Mix
E-0129-01	PCB-1260	5004	Technical Mix

Preparation: Reported concentration value has been corrected for purity and is typically accurate to 0.5%. Concentration is calculated from wt/vol or vol/vol measurements using microbalances calibrated with NIST tracable weights to 0.0001g and/or ASTM Class A volumetric glassware or calibrated equivalent labware.

STORAGE & HANDLING

Store at ≤ 5°C. Transfer to tightly sealed glass vial with Teflon-lined septum or cap after opening. Allow to equilibrate to room temperature before use.

This reference material is a dilute homogeneous solution of the above listed compounds in toluene. Hazard information for this specific solution is not available. However, MSDSs are enclosed for the solvent and the components comprising greater than 1.0% of the solution or 0.1% for components which are known to be carcinogens.

Produced by:

NSI Environmental Solutions
PO Box 12313, Research Triangle Park, NC 27709
1-800-234-7837

DATA CHEM LABORATORIES
A Sorenson Company

ANALYTICAL REPORT

Form ARF-AL
Page 1 of 2
Part 1 of 1
11259718433218

Date _____
Laboratory Group Name 97C-0426-03
Account No. 03008

Roy F. Weston
Attention: Smita Sumbaly
1090 King Georges Post Road, Suite 201
Edison, NJ 08837

FAX (908) 225-7037
Telephone (908) 225-6116

Sampling Collection and Shipment

Sampling Site _____ Date of Collection November 05, 1997

Date Samples Received at Laboratory November 06, 1997

Analysis

Method of Analysis XX-EP-800

Date(s) of Analysis November 12, 1997

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Solids (Total) %								
MMMSS1	97C05020	SOIL	36.5								
MMMSS1	97C05020MD	SOIL	38.9								
MMMSED(D)	97C05021	SOIL	60.2								
MMMNS3	97C05022	SOIL	54.3								
MMMND2	97C05023	SOIL	67.9								
MMMNS2	97C05024	SOIL	55.7								
PPPNS2	97C05025	SOIL	61.1								
PPPND2	97C05026	SOIL	42.7								
PPPND1	97C05027	SOIL	66.0								
PPPNS1	97C05028	SOIL	63.7								
PPPSED(D)	97C05029	SOIL	78.1								
PPPSED(S)	97C05030	SOIL	59.5								
OOONS3	97C05031	SOIL	63.4								

† See comment on last page.
ND Parameter not detected above LOD.
NR Parameter not requested.
** See comment on last page.
( ) Parameter between LOD and LOQ.

Analyst: Michelle R. Manning

Reviewer: Trinh T. Le

0128

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DATA CHEM LABORATORIES
A Sorenson Company

ANALYTICAL REPORT

Form ARF-BL
Page 2 of 2
Part 1 of 1
11259718433218

Date _____
Laboratory Group Name 97C-0426-03

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Solids (Total) %							
000ND1	97C05032	SOIL	75.1							
000NS1	97C05033	SOIL	63.3							
000ND2	97C05034	SOIL	57.0							
000NS2	97C05035	SOIL	65.6							
000SD2	97C05036	SOIL	67.4							
000SED(D)	97C05037	SOIL	82.1							
000SED(S)	97C05038	SOIL	55.5							
000SS1	97C05039	SOIL	48.0							
000SS1	97C05039MD	SOIL	49.3							
Limit of Detection										

† See comment on last page.
ND Parameter not detected.above LOD.

** See comment on last page.
( ) Parameter between LOD and LOQ.

0129

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50K3

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **MMMSS1**
DCL Sample Name...: **97C05020**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:15
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	15-NOV-97 20:57	2.95	ND			50.0	6.67
Aroclor 1221	15-NOV-97 20:57	20.9	ND			50.0	33.3
Aroclor 1232	15-NOV-97 20:57	3.68	ND			50.0	6.67
Aroclor 1242	15-NOV-97 20:57	2.53	ND			50.0	6.67
Aroclor 1248	15-NOV-97 20:57	2.30	ND			50.0	6.67
Aroclor 1254	15-NOV-97 20:57	1.54	6460			50.0	6.67
Aroclor 1260	15-NOV-97 20:57	1.47	ND			50.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	17.5		
Dibutylchlorendate	95.1		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50K4

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **MMMSED(D)**
DCL Sample Name...: **97C05021**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:10
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	15-NOV-97 20:20	2.95	ND			50.0	6.67
Aroclor 1221	15-NOV-97 20:20	20.9	ND			50.0	33.3
Aroclor 1232	15-NOV-97 20:20	3.68	ND			50.0	6.67
Aroclor 1242	15-NOV-97 20:20	2.53	ND			50.0	6.67
Aroclor 1248	15-NOV-97 20:20	2.30	ND			50.0	6.67
Aroclor 1254	15-NOV-97 20:20	1.54	7590			50.0	6.67
Aroclor 1260	15-NOV-97 20:20	1.47	ND			50.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	19.7		
Dibutylchlorendate	155.		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.3
11189710233623
Page 7

S97B50K5

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **MMMNS3**
DCL Sample Name...: **97C05022**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:25
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	15-NOV-97 21:35	2.95	ND			50.0	6.67
Aroclor 1221	15-NOV-97 21:35	20.9	ND			50.0	33.3
Aroclor 1232	15-NOV-97 21:35	3.68	ND			50.0	6.67
Aroclor 1242	15-NOV-97 21:35	2.53	ND			50.0	6.67
Aroclor 1248	15-NOV-97 21:35	2.30	ND			50.0	6.67
Aroclor 1254	15-NOV-97 21:35	1.54	7170			50.0	6.67
Aroclor 1260	15-NOV-97 21:35	1.47	ND			50.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	23.8		
Dibutylchlorendate	123.		

NOTE: This data is from the LIMS not the QC database.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50K6

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **MMMND2**
DCL Sample Name...: **97C05023**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:35
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	13-NOV-97 11:29	2.95	ND			1.00	6.67
Aroclor 1221	13-NOV-97 11:29	20.9	ND			1.00	33.3
Aroclor 1232	13-NOV-97 11:29	3.68	ND			1.00	6.67
Aroclor 1242	13-NOV-97 11:29	2.53	ND			1.00	6.67
Aroclor 1248	13-NOV-97 11:29	2.30	ND			1.00	6.67
Aroclor 1254	13-NOV-97 11:29	1.54	220.			1.00	6.67
Aroclor 1260	13-NOV-97 11:29	1.47	ND			1.00	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	30.5		
Dibutylchlorendate	19.8		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50K7

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **MMMNS2**
DCL Sample Name...: **97C05024**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:25
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	15-NOV-97 22:12	2.95	ND			50.0	6.67
Aroclor 1221	15-NOV-97 22:12	20.9	ND			50.0	33.3
Aroclor 1232	15-NOV-97 22:12	3.68	ND			50.0	6.67
Aroclor 1242	15-NOV-97 22:12	2.53	ND			50.0	6.67
Aroclor 1248	15-NOV-97 22:12	2.30	ND			50.0	6.67
Aroclor 1254	15-NOV-97 22:12	1.54	3700			50.0	6.67
Aroclor 1260	15-NOV-97 22:12	1.47	ND			50.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	19.4		
Dibutylchlorendate	74.7		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50K8

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **PPPNS2**
DCL Sample Name...: **97C05025**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 14:45
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	15-NOV-97 22:49	2.95	ND			50.0	6.67
Aroclor 1221	15-NOV-97 22:49	20.9	ND			50.0	33.3
Aroclor 1232	15-NOV-97 22:49	3.68	ND			50.0	6.67
Aroclor 1242	15-NOV-97 22:49	2.53	ND			50.0	6.67
Aroclor 1248	15-NOV-97 22:49	2.30	ND			50.0	6.67
Aroclor 1254	15-NOV-97 22:49	1.54	6150			50.0	6.67
Aroclor 1260	15-NOV-97 22:49	1.47	ND			50.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	17.8		
Dibutylchlorendate	109.		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50K9

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **PPPND2**
DCL Sample Name...: **97C05026**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 14:50
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	15-NOV-97 23:27	2.95	ND			2000	6.67
Aroclor 1221	15-NOV-97 23:27	20.9	ND			2000	33.3
Aroclor 1232	15-NOV-97 23:27	3.68	ND			2000	6.67
Aroclor 1242	15-NOV-97 23:27	2.53	ND			2000	6.67
Aroclor 1248	15-NOV-97 23:27	2.30	ND			2000	6.67
Aroclor 1254	15-NOV-97 23:27	1.54	202000			2000	6.67
Aroclor 1260	15-NOV-97 23:27	1.47	ND			2000	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	22.8		
Dibutylchlorendate	2630		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50KB

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **PPPND1**
DCL Sample Name...: **97C05027**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 14:50
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 00:04	2.95	ND			200.	6.67
Aroclor 1221	16-NOV-97 00:04	20.9	ND			200.	33.3
Aroclor 1232	16-NOV-97 00:04	3.68	ND			200.	6.67
Aroclor 1242	16-NOV-97 00:04	2.53	ND			200.	6.67
Aroclor 1248	16-NOV-97 00:04	2.30	ND			200.	6.67
Aroclor 1254	16-NOV-97 00:04	1.54	21400			200.	6.67
Aroclor 1260	16-NOV-97 00:04	1.47	ND			200.	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	24.0		
Dibutylchlorendate	326.		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50KC

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **PPPNS1**
DCL Sample Name...: **97C05028**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 14:15
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 00:42	2.95	ND			200.	6.67
Aroclor 1221	16-NOV-97 00:42	20.9	ND			200.	33.3
Aroclor 1232	16-NOV-97 00:42	3.68	ND			200.	6.67
Aroclor 1242	16-NOV-97 00:42	2.53	ND			200.	6.67
Aroclor 1248	16-NOV-97 00:42	2.30	ND			200.	6.67
Aroclor 1254	16-NOV-97 00:42	1.54	8460			200.	6.67
Aroclor 1260	16-NOV-97 00:42	1.47	ND			200.	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	28.5		
Dibutylchlorendate	230.		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50KD

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **PPPSED(D)**
DCL Sample Name...: **97C05029**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 14:00
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 01:19	2.95	ND			10.0	6.67
Aroclor 1221	16-NOV-97 01:19	20.9	ND			10.0	33.3
Aroclor 1232	16-NOV-97 01:19	3.68	ND			10.0	6.67
Aroclor 1242	16-NOV-97 01:19	2.53	ND			10.0	6.67
Aroclor 1248	16-NOV-97 01:19	2.30	ND			10.0	6.67
Aroclor 1254	16-NOV-97 01:19	1.54	632.			10.0	6.67
Aroclor 1260	16-NOV-97 01:19	1.47	ND			10.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	21.8		
Dibutylchlorendate	21.2		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50KF

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **PPPSED(S)**
DCL Sample Name...: **97C05030**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 14:00
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 01:56	2.95	ND			50.0	6.67
Aroclor 1221	16-NOV-97 01:56	20.9	ND			50.0	33.3
Aroclor 1232	16-NOV-97 01:56	3.68	ND			50.0	6.67
Aroclor 1242	16-NOV-97 01:56	2.53	ND			50.0	6.67
Aroclor 1248	16-NOV-97 01:56	2.30	ND			50.0	6.67
Aroclor 1254	16-NOV-97 01:56	1.54	2200			50.0	6.67
Aroclor 1260	16-NOV-97 01:56	1.47	ND			50.0	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	15.3		
Dibutylchlorendate	50.7		

NOTE: This data is from the LIMS not the QC database.

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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50KG

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **OOONS3**
DCL Sample Name...: **97C05031**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:00
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 03:11	2.95	ND			500.	6.67
Aroclor 1221	16-NOV-97 03:11	20.9	ND			500.	33.3
Aroclor 1232	16-NOV-97 03:11	3.68	ND			500.	6.67
Aroclor 1242	16-NOV-97 03:11	2.53	ND			500.	6.67
Aroclor 1248	16-NOV-97 03:11	2.30	ND			500.	6.67
Aroclor 1254	16-NOV-97 03:11	1.54	31200			500.	6.67
Aroclor 1260	16-NOV-97 03:11	1.47	ND			500.	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	19.6		
Dibutylchlorendate	565.		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.3
11189710233623
Page 17

S97B50KH

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **OOONDl**
DCL Sample Name...: **97C05032**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:10
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 05:41	2.95	ND			5.00	6.67
Aroclor 1221	16-NOV-97 05:41	20.9	ND			5.00	33.3
Aroclor 1232	16-NOV-97 05:41	3.68	ND			5.00	6.67
Aroclor 1242	16-NOV-97 05:41	2.53	ND			5.00	6.67
Aroclor 1248	16-NOV-97 05:41	2.30	ND			5.00	6.67
Aroclor 1254	16-NOV-97 05:41	1.54	725.			5.00	6.67
Aroclor 1260	16-NOV-97 05:41	1.47	ND			5.00	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	19.0		
Dibutylchlorendate	14.8		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50KJ

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **OOONS1**
DCL Sample Name...: **97C05033**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:00
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 03:48	2.95	14300			2000	6.67
Aroclor 1221	16-NOV-97 03:48	20.9	ND			2000	33.3
Aroclor 1232	16-NOV-97 03:48	3.68	ND			2000	6.67
Aroclor 1242	16-NOV-97 03:48	2.53	ND			2000	6.67
Aroclor 1248	16-NOV-97 03:48	2.30	ND			2000	6.67
Aroclor 1254	16-NOV-97 03:48	1.54	69700			2000	6.67
Aroclor 1260	16-NOV-97 03:48	1.47	80200			2000	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	23.3		
Dibutylchlorendate	1700		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50KK

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **OOONS1**
DCL Sample Name...: **97C05033MS**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:00
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 04:26	2.95	6350			2000	6.67
Aroclor 1260	16-NOV-97 04:26	1.47	33100			2000	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	18.4		
Dibutylchlorendate	1370		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50KL

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **OOONS1**
DCL Sample Name...: **97C05033MSD**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:00
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 05:03	2.95	15500			2000	6.67
Aroclor 1260	16-NOV-97 05:03	1.47	77300			2000	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	28.5		
Dibutylchlorendate	1650		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50KM

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **OOOND2**
DCL Sample Name...: **97C05034**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:00
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 06:18	2.95	ND			500.	6.67
Aroclor 1221	16-NOV-97 06:18	20.9	ND			500.	33.3
Aroclor 1232	16-NOV-97 06:18	3.68	ND			500.	6.67
Aroclor 1242	16-NOV-97 06:18	2.53	ND			500.	6.67
Aroclor 1248	16-NOV-97 06:18	2.30	ND			500.	6.67
Aroclor 1254	16-NOV-97 06:18	1.54	39600			500.	6.67
Aroclor 1260	16-NOV-97 06:18	1.47	ND			500.	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	24.3		
Dibutylchlorendate	572.		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50KN

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **OOONS2**
DCL Sample Name...: **97C05035**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 15:00
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 06:55	2.95	ND			100.	6.67
Aroclor 1221	16-NOV-97 06:55	20.9	ND			100.	33.3
Aroclor 1232	16-NOV-97 06:55	3.68	ND			100.	6.67
Aroclor 1242	16-NOV-97 06:55	2.53	ND			100.	6.67
Aroclor 1248	16-NOV-97 06:55	2.30	ND			100.	6.67
Aroclor 1254	16-NOV-97 06:55	1.54	8170			100.	6.67
Aroclor 1260	16-NOV-97 06:55	1.47	ND			100.	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	18.6		
Dibutylchlorendate	153.		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50KP

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **OOOSD2**
DCL Sample Name...: **97C05036**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 14:10
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 07:33	2.95	ND			100.	6.67
Aroclor 1221	16-NOV-97 07:33	20.9	ND			100.	33.3
Aroclor 1232	16-NOV-97 07:33	3.68	ND			100.	6.67
Aroclor 1242	16-NOV-97 07:33	2.53	ND			100.	6.67
Aroclor 1248	16-NOV-97 07:33	2.30	ND			100.	6.67
Aroclor 1254	16-NOV-97 07:33	1.54	6170			100.	6.67
Aroclor 1260	16-NOV-97 07:33	1.47	ND			100.	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	17.0		
Dibutylchlorendate	146.		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50KQ

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **OOOSED(D)**
DCL Sample Name...: **97C05037**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 14:05
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	13-NOV-97 22:42	2.95	ND			1.00	6.67
Aroclor 1221	13-NOV-97 22:42	20.9	ND			1.00	33.3
Aroclor 1232	13-NOV-97 22:42	3.68	ND			1.00	6.67
Aroclor 1242	13-NOV-97 22:42	2.53	ND			1.00	6.67
Aroclor 1248	13-NOV-97 22:42	2.30	ND			1.00	6.67
Aroclor 1254	13-NOV-97 22:42	1.54	83.0			1.00	6.67
Aroclor 1260	13-NOV-97 22:42	1.47	ND			1.00	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	21.2		
Dibutylchlorendate	10.8		

NOTE: This data is from the LIMS not the QC database.

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
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DATA CHEM LABORATORIES
A Sorenson Company

FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

S97B50KR

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **OOOSED(S)**
DCL Sample Name...: **97C05038**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 14:05
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 08:10	2.95	ND			100.	6.67
Aroclor 1221	16-NOV-97 08:10	20.9	ND			100.	33.3
Aroclor 1232	16-NOV-97 08:10	3.68	ND			100.	6.67
Aroclor 1242	16-NOV-97 08:10	2.53	ND			100.	6.67
Aroclor 1248	16-NOV-97 08:10	2.30	ND			100.	6.67
Aroclor 1254	16-NOV-97 08:10	1.54	5570			100.	6.67
Aroclor 1260	16-NOV-97 08:10	1.47	ND			100.	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	16.6		
Dibutylchlorendate	111.		

NOTE: This data is from the LIMS not the QC database.

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DATA CHEM LABORATORIES
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FORM A (TYPE I)
SINGLE METHOD ANALYSES

SAMPLE ANALYSIS DATA SHEET

Form RLIMS63A-V1.3
11189710233623
Page 26

S97B50KS

Date Printed.....: 18-NOV-97 10:23

Client Name.....: Roy F. Weston
Client Ref Number....: Not Provided
Sampling Site.....: Not Provided
Release Number.....: MMMND2

Date Received.....: 06-NOV-97 00:00

Client Sample Name: **OOOSS1**
DCL Sample Name...: **97C05039**
DCL Report Group..: **97C-0426-01**

Matrix.....: SOIL
Date Sampled.....: 05-NOV-97 14:07
Reporting Units...: µg/Kg
Report Basis.....: ☒ As Received ☐ Dried

DCL Preparation Group: G97B902H
Date Prepared.....: 11-NOV-97 00:00
Preparation Method...: 3550A
Aliquot Weight/Volume: 0.030 Kg
Net Weight/Volume....: Not Required

DCL Analysis Group: G97BC00F
Analysis Method...: 8080A
Instrument Type...: GC/ECD
Instrument ID.....: GC/ECD-18
Column Type.....: DB-608
☒ Primary
☐ Confirmation

Analytical Results

Analyte	Date Analyzed	MDL	Result	Comment	Qual.	Dilution	CRDL
Aroclor 1016	16-NOV-97 08:47	2.95	ND			100.	6.67
Aroclor 1221	16-NOV-97 08:47	20.9	ND			100.	33.3
Aroclor 1232	16-NOV-97 08:47	3.68	ND			100.	6.67
Aroclor 1242	16-NOV-97 08:47	2.53	ND			100.	6.67
Aroclor 1248	16-NOV-97 08:47	2.30	ND			100.	6.67
Aroclor 1254	16-NOV-97 08:47	1.54	6810			100.	6.67
Aroclor 1260	16-NOV-97 08:47	1.47	ND			100.	6.67

Surrogate Recoveries

Analyte	Result	Spiked Amount	Percent Recovery
Tetrachloro-m-xylene	17.9		
Dibutylchlorendate	137.		

NOTE: This data is from the LIMS not the QC database.

0151

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Raw Data
Environmental Organic Analysis
Table of Contents
(Rev. 1: 3/95 GLH)

- [NA] DUMMY: Raw data is contained with set _____
- [X] Section 1. Sequencing Order
- [X] Section 2. Quantitation Data
- [X] Section 3. Calibration Data (Primary Column)
- [X] Section 4. Extract Data (Primary Column)
- [NA] Section 5. Confirmation Column Data
- [NA] Other (describe) _____

The following signatures verify that the raw data and all inventory and reviewer checklists in each raw data section (all green sheets) are complete and accurate.

Assembled by: _____ 11/18/97 Reviewed by: _____ 12/5/97
Signature Date Signature Date

Section 1. Environmental Organic Analysis
(Rev. 1: 3/95)
Sequencing Order
Inventory Checklist

USAEC Protocol including UH20, LH17, etc. (Excluding PST1-WA/SO and HBG1-WA/SO)

1. Prime (optional)
2. Solvent blank (optional)
3. Breakdown evaluation (if not accommodated by calibration standards)
4. Calibration Standards (or continuing calibration)
5. Initial Calibration Verification (ICV)
6. Solvent blank (optional)
7. Extracts
   - a. Method Blank
   - b. QC extracts
   - c. Field sample extracts (including MS/MSD where applicable)
   - d. remaining QC extracts
8. Continuing Calibration
   - a. Are: aliquots of the high calibration standards
   - b. Frequency: after every analytical lot
   - c. Criteria: ⅔ of the analytes ±25% and RTW

PST1-WA/SO Protocol

1. Prime (optional)
2. Solvent blank (optional)
3. Breakdown evaluation - PEM
4. Calibration Standards (or Continuing Calibration)
5. Initial Calibration Verification (ICV)
6. Solvent blank (optional)
7. Extracts
   - a. Method Blank
   - b. QC extracts
   - c. Field sample extracts (including MS/MSD where applicable)
   - d. remaining QC extracts
8. Continuing Calibration
   - a. Are: a solvent blank and alternating PEM with aliquots of the A and BMIX calibration standards
   - b. Frequency: every 12 hours
   - c. Criteria: ⅔ of the analytes ±25% and RTW

HGB1-WA/SO Protocol

1. Prime (optional)
2. Solvent blank (optional)
3. Calibration Standards (or Continuing Calibration)
4. Initial Calibration Verification (ICV)
5. Solvent blank (Optional)
6. Extracts
   - a. Method Blank
   - b. QC extracts
   - c. Field sample extracts (including MS/MSD where applicable)
   - d. remaining QC extracts
7. Continuing Calibration
   - a. Are: aliquots of mid-range calibration standards
   - b. Frequency: every 12 hours
   - c. Criteria: ⅔ of the analytes ±25% and RTW

SW-846 Protocol including 8080, 8150, etc.

1. Prime (optional)
2. Solvent blank (optional)
3. Breakdown evaluation (if not accommodated by calibration standards)
4. Calibration Standards (or continuing calibration)
5. Initial Calibration Verification (ICV)
6. Solvent blank (optional)
7. Extracts
   - a. Method Blank
   - b. LCS(s)
   - c. Field sample extracts {including MS/MSD(s)}
8. Continuing Calibration
   - a. Are: aliquots of the mid-range calibration standards
   - b. Frequency: a minimum of every 10 extracts
   - c. Criteria: ±15% and RTW

Section 1. Sequencing Order
Reviewer Checklist

0153

The order of the raw data is consistent with applicable protocol.

Data has been initialed and dated by the analyst and checker in the appropriate places.

Sequence: DISK:[TAYLORC]5997316.SEQ;6
Date: 17-NOV-1997 16:49:02.42

Spl	Sample Name	Inj	Method File	Calib RT	Calib CF	Data File
1	PRIME	1	5997316_8080P			5997316001
2	PRIME	1	5997316_8080P			5997316002
3	PCB221_2.0	1	5997316_8080P			5997316003
4	PCB232_2.0	1	5997316_8080P			5997316004
5	PCB242_2.0	1	5997316_8080P			5997316005
6	PCB248_2.0	1	5997316_8080P			5997316006
7	PCB254_2.0	1	5997316_8080P			5997316007
8	$1660_2.0	1	5997316_8080P	I	R	5997316008
9	$1660_1.0	1	5997316_8080P	I	R	5997316009
10	$1660_.20	1	5997316_8080P	I	R	5997316010
11	$1660_.10	1	5997316_8080P	I	R	5997316011
12	$1660_.02	1	5997316_8080P	I	R	5997316012
13	ICV_1660_1.0	1	5997316_8080P			5997316013
14	CCV1660_1.0	1	5997316_8080P			5997316023
15	BL-142021-1	1	5997316_8080P			5997316024
16	QC-142021-1	1	5997316_8080P			5997316025
17	97C05082	1	5997316_8080P			5997316026
18	97C05021	1	5997316_8080P			5997316027
19	BL-142009-1	1	5997316_8080P			5997316028
20	QC-142009-1	1	5997316_8080P			5997316029
21	97C05020	1	5997316_8080P			5997316030
22	97C05022	1	5997316_8080P			5997316031
23	97C05023	1	5997316_8080P			5997316032
24	97C05024	1	5997316_8080P			5997316033
25	CCV1660_1.0	1	5997316_8080P			5997316034
26	97C05025	1	5997316_8080P			5997316035
27	97C05026	1	5997316_8080P			5997316036
28	97C05027	1	5997316_8080P			5997316037
29	97C05028	1	5997316_8080P			5997316038
30	97C05029	1	5997316_8080P			5997316039
31	97C05030	1	5997316_8080P			5997316040
32	97C05031	1	5997316_8080P			5997316041
33	97C05033	1	5997316_8080P			5997316042
34	97C05033MS	1	5997316_8080P			5997316043
35	97C05033MSD	1	5997316_8080P			5997316044
36	CCV1660_1.0	1	5997316_8080P			5997316045
37	97C05032	1	5997316_8080P			5997316046
38	97C05034	1	5997316_8080P			5997316047
39	97C05035	1	5997316_8080P			5997316048
40	97C05036	1	5997316_8080P			5997316049
41	97C05037	1	5997316_8080P			5997316050
42	97C05038	1	5997316_8080P			5997316051
43	97C05039	1	5997316_8080P			5997316052
44	CCV1660_1.0	1	5997316_8080P			5997316053
45	PRIME	1	5997316_8080P			5997316054
46	CCV1660_1.0	1	5997316_8080P			5997316055
47	$1254_2.0	1	5997316_8080P	I	R	5997316056
48	$1254_1.0	1	5997316_8080P	I	R	5997316057
49	$1254_0.10	1	5997316_8080P	I	R	5997316059
50	$1254_0.20	1	5997316_8080P	I	R	5997316060
51	$1254_0.02	1	5997316_8080P	I	R	5997316061
52	ICV1254_1.0	1	5997316_8080P			5997316062
53	97C05021 X50	1	5997316_8080P			5997316063
54	97C05020 X50	1	5997316_8080P			5997316064
55	97C05022 X50	1	5997316_8080P			5997316065
56	97C05024 X50	1	5997316_8080P			5997316066
57	97C05025 X50	1	5997316_8080P			5997316067
58	97C05026 X2000	1	5997316_8080P			5997316068

59	97C05027 X200	1	5997316_8080P	5997316069
60	97C05028 X200	1	5997316_8080P	5997316070
61	97C05029 X10	1	5997316_8080P	5997316071
62	97C05030 X50	1	5997316_8080P	5997316072
63	CCV1660_1.0	1	5997316_8080P	5997316073
64	97C05031 X500	1	5997316_8080P	5997316074
65	97C05033 X2000	1	5997316_8080P	5997316075
66	97C05033MS X2000	1	5997316_8080P	5997316076
67	97C05033MSD X2000	1	5997316_8080P	5997316077
68	97C05032 X5	1	5997316_8080P	5997316078
69	97C05034 X500	1	5997316_8080P	5997316079
70	97C05035 X100	1	5997316_8080P	5997316080
71	97C05036 X100	1	5997316_8080P	5997316081
72	97C05038 X100	1	5997316_8080P	5997316082
73	97C05039 X100	1	5997316_8080P	5997316083
74	CCV1660_1.0	1	5997316_8080P	5997316084

Reports: Delayed
Calibration mode: 2. Calibrate standards before analyzing unknowns.

PENelson ACCESS*CHROM v1.9 Injection Log Worksheet

Sequence File = DISK:[TAYLORC]5997316.SEQ;6 Data Directory = DISK:[TAYLORC]

Seq#	Rep#	Sample Name Sample Notes	Data Filename	Acquisition Time
1	1	PRIME	5997316001.RAW;1	12-NOV-1997 10:40:24
2	1	PRIME	5997316002.RAW;1	12-NOV-1997 11:32:34
3	1	PCB221_2.0 138-WS-27569-1	5997316003.RAW;1	12-NOV-1997 13:15:42
4	1	PCB232_2.0 138-WS-27570-1	5997316004.RAW;1	12-NOV-1997 15:57:26
5	1	PCB242_2.0 138-WS-27571-1	5997316005.RAW;1	12-NOV-1997 17:52:23
6	1	PCB248_2.0 138-WS-27572-1	5997316006.RAW;1	12-NOV-1997 18:29:45
7	1	PCB254_2.0 138-WS-27591-1	5997316007.RAW;1	12-NOV-1997 19:07:10
8	1	$1660_2.0 138-WS-27590-1	5997316008.RAW;1	12-NOV-1997 19:44:14
9	1	$1660_1.0 138-WS-27590-2	5997316009.RAW;1	12-NOV-1997 20:21:40
10	1	$1660_.20 138-WS-27590-3	5997316010.RAW;1	12-NOV-1997 20:59:03
11	1	$1660_.10 138-WS-27590-4	5997316011.RAW;1	12-NOV-1997 21:36:06
12	1	$1660_.02 138-WS-27588-1	5997316012.RAW;1	12-NOV-1997 22:13:27
13	1	ICV_1660_1.0 138-WS-27589-1	5997316013.RAW;1	12-NOV-1997 22:50:53
23	1	CCV1660_1.0 138-WS-27590-2	5997316023.RAW;1	13-NOV-1997 05:04:51
24	1	BL-142021-1 97C-0429-04	5997316024.RAW;1	13-NOV-1997 05:42:14
25	1	QC-142021-1 97C-0429-04	5997316025.RAW;1	13-NOV-1997 06:19:39
26	1	97C05082 97C-0429-04	5997316026.RAW;1	13-NOV-1997 06:56:58
27	1	97C05021 97C-0426-01	5997316027.RAW;1	13-NOV-1997 07:34:21
28	1	BL-142009-1 97C-0426-01	5997316028.RAW;1	13-NOV-1997 09:00:28
29	1	QC-142009-1 97C-0426-01	5997316029.RAW;1	13-NOV-1997 09:37:52
30	1	97C05020 97C-0426-01	5997316030.RAW;1	13-NOV-1997 10:15:13
31	1	97C05022 97C-0426-01	5997316031.RAW;1	13-NOV-1997 10:52:36
32	1	97C05023 97C-0426-01	5997316032.RAW;1	13-NOV-1997 11:29:55
33	1	97C05024 97C-0426-01	5997316033.RAW;1	13-NOV-1997 12:07:18

PENelson ACCESS*CHROM v1.9 Injection Log Worksheet

Sequence File = DISK:[TAYLORC]5997316.SEQ;6 Data Directory = DISK:[TAYLORC]

Seq#	Rep#	Sample Name Sample Notes	Data Filename	Acquisition Time
34	1	CCV1660_1.0 138-WS-27590-2	5997316034.RAW;1	13-NOV-1997 12:44:39
35	1	97C05025 97C-0426-01	5997316035.RAW;1	13-NOV-1997 13:22:03
36	1	97C05026 97C-0426-01	5997316036.RAW;1	13-NOV-1997 13:59:24
37	1	97C05027 97C-0426-01	5997316037.RAW;1	13-NOV-1997 14:36:45
38	1	97C05028 97C-0426-01	5997316038.RAW;1	13-NOV-1997 15:14:06
39	1	97C05029 97C-0426-01	5997316039.RAW;1	13-NOV-1997 15:51:32
40	1	97C05030 97C-0426-01	5997316040.RAW;1	13-NOV-1997 16:28:54
41	1	97C05031 97C-0426-01	5997316041.RAW;1	13-NOV-1997 17:06:19
42	1	97C05033 97C-0426-01	5997316042.RAW;1	13-NOV-1997 17:43:37
43	1	97C05033MS 97C-0426-01	5997316043.RAW;1	13-NOV-1997 18:21:00
44	1	97C05033MSD 97C-0426-01	5997316044.RAW;1	13-NOV-1997 18:58:18
45	1	CCV1660_1.0 138-WS-27590-2	5997316045.RAW;1	13-NOV-1997 19:35:42
46	1	97C05032 97C-0426-01	5997316046.RAW;1	13-NOV-1997 20:12:57
47	1	97C05034 97C-0426-01	5997316047.RAW;1	13-NOV-1997 20:50:19
48	1	97C05035 97C-0426-01	5997316048.RAW;1	13-NOV-1997 21:27:35
49	1	97C05036 97C-0426-01	5997316049.RAW;1	13-NOV-1997 22:05:01
50	1	97C05037 97C-0426-01	5997316050.RAW;1	13-NOV-1997 22:42:24
51	1	97C05038 97C-0426-01	5997316051.RAW;1	13-NOV-1997 23:19:48
52	1	97C05039 97C-0426-01	5997316052.RAW;1	13-NOV-1997 23:57:10
53	1	CCV1660_1.0 138-WS-27590-2	5997316053.RAW;1	14-NOV-1997 00:34:33
54	1	PRIME	5997316054.RAW;1	15-NOV-1997 13:08:53
55	1	CCV1660_1.0 138-WS-27590-2	5997316055.RAW;1	15-NOV-1997 13:46:17
56	1	$1254_2.0 138-WS-27591	5997316056.RAW;1	15-NOV-1997 14:23:39
57	1	$1254_1.0 138-WS-27591	5997316057.RAW;1	15-NOV-1997 15:01:05

PENelson ACCESS*CHROM v1.9 Injection Log Worksheet

Sequence File = DISK:[TAYLORC]5997316.SEQ;6 Data Directory = DISK:[TAYLORC]

Seq#	Rep#	Sample Name Sample Notes	Data Filename	Acquisition Time
59	1	$1254_0.10 138-WS-27591	5997316059.RAW;1	15-NOV-1997 17:51:01
60	1	$1254_0.20 138-WS-27591	5997316060.RAW;1	15-NOV-1997 18:28:20
61	1	$1254_0.02 138-WS-27591	5997316061.RAW;1	15-NOV-1997 19:05:38
62	1	ICV1254_1.0	5997316062.RAW;1	15-NOV-1997 19:43:06
63	1	97C05021 X50 97C-0426-01	5997316063.RAW;1	15-NOV-1997 20:20:30
64	1	97C05020 X50 97C-0426-01	5997316064.RAW;1	15-NOV-1997 20:57:54
65	1	97C05022 X50 97C-0426-01	5997316065.RAW;1	15-NOV-1997 21:35:13
66	1	97C05024 X50 97C-0426-01	5997316066.RAW;1	15-NOV-1997 22:12:36
67	1	97C05025 X50 97C-0426-01	5997316067.RAW;1	15-NOV-1997 22:49:57
68	1	97C05026 X2000 97C-0426-01	5997316068.RAW;1	15-NOV-1997 23:27:23
69	1	97C05027 X200 97C-0426-01	5997316069.RAW;1	16-NOV-1997 00:04:44
70	1	97C05028 X200 97C-0426-01	5997316070.RAW;1	16-NOV-1997 00:42:06
71	1	97C05029 X10 97C-0426-01	5997316071.RAW;1	16-NOV-1997 01:19:26
72	1	97C05030 X50 97C-0426-01	5997316072.RAW;1	16-NOV-1997 01:56:49
73	1	CCV1660_1.0 138-WS-27590-2	5997316073.RAW;1	16-NOV-1997 02:34:10
74	1	97C05031 X500 97C-0426-01	5997316074.RAW;1	16-NOV-1997 03:11:34
75	1	97C05033 X2000 97C-0426-01	5997316075.RAW;1	16-NOV-1997 03:48:55
76	1	97C05033MS X2000 97C-0426-01	5997316076.RAW;1	16-NOV-1997 04:26:17
77	1	97C05033MSD X2000 97C-0426-01	5997316077.RAW;1	16-NOV-1997 05:03:38
78	1	97C05032 X5 97C-0426-01	5997316078.RAW;1	16-NOV-1997 05:41:01
79	1	97C05034 X500 97C-0426-01	5997316079.RAW;1	16-NOV-1997 06:18:22
80	1	97C05035 X100 97C-0426-01	5997316080.RAW;1	16-NOV-1997 06:55:43
81	1	97C05036 X100 97C-0426-01	5997316081.RAW;1	16-NOV-1997 07:33:02
82	1	97C05038 X100 97C-0426-01	5997316082.RAW;1	16-NOV-1997 08:10:25

PENelson ACCESS*CHROM v1.9 Injection Log Worksheet

Sequence File = DISK:[TAYLORC]5997316.SEQ;6 Data Directory = DISK:[TAYLORC]

Seq#	Rep#	Sample Name Sample Notes	Data Filename	Acquisition Time
83	1	97C05039 X100 97C-0426-01	5997316083.RAW;1	16-NOV-1997 08:47:46
84	1	CCV1660_1.0 138-WS-27590-2	5997316084.RAW;1	16-NOV-1997 09:25:08

Section 2.
Environmental Organic Analysis
(Rev. 1: 3/95)

Quantitation Data
Inventory Checklist

- [x] Muddle Sheets

- [x] Tabular Summary Sheets - Primary and Confirmation (if applicable) Columns

Section 2.
Quantitation Data
Reviewer Checklist

- [x] The quantitation data inventory checklist above is complete.
- [x] The calibration data has been verified for the following:
  - The response data on the muddle sheets are consistent with tabular summary sheets for all data.
  - The correct conversion factor(s) has/have been applied on the muddle sheets.

PENelson ACCESS*CHROM V1.8 Peak Summary Worksheet

Sample Name	CL4XYL 7.6544 6.8832E-03 Result	PCB016 15.209 1.258 Result	PCB254 19.567 1.507 Result	PCB260 21.866 1.469 Result	DBUCLE 25.106 7.8486E-03 Result	Peak RT Mean RT SD Response
PRIME	0.4054	1.62	0.394	2.267	0.4356	
PRIME	0.4057	2.021	0.3265	2.042	0.402	
PCB221_2.0	0.4643	0.1134	3.3552E-02	8.1918E-02	0.3025	
PCB232_2.0	0.4129	0.9267	9.2302E-02	4.9069E-02	0.2631	
PCB242_2.0	0.2678	0.8895	0.148	6.8878E-02	0.1743	
+	+	+	+	+	+	
PCB248_2.0	0.2379	0.939	0.3138	0.1454	0.1552	
PCB254_2.0	0.2657	0.3935	1.261	0.8831	0.1757	
$1660_2.0	0	0	0	0	0	
$1660_1.0	0	0	0	0	0	
$1660_.20	0	0	0	0	0	
+	+	+	+	+	+	
$1660_.10	0	0	0	0	0	
$1660_.02	0	0	0	0	0	
ICV_1660_1.0	0.1902	1.033	0.135	1.043	0.1947	
CCV1660_1.0	0.1922	0.9393	0.1212	0.9588	0.2048	
BL-142021-1	0.5941				0.342	
+	+	+	+	+	+	
QC-142021-1	0.6233	6.105	0.9144	6.052	0.8439	
97C05082	0.4845				0.2898	
97C05021	12.33	1442	0	3324	83.76	
BL-142009-1	24.87	0.9684			13.54	
QC-142009-1	25.28	187	28.14	186.1	29.28	
+	+	+	+	+	+	
97C05020	20.81	1269	0	3261	90.02	
97C05022	23.78	1125	0	3175	93.58	
97C05023	30.51	60.31	219.9	509.5	19.76	
97C05024	27.27	946.1	0	2525	72.02	
CCV1660_1.0	0.2317	1.081	0.1324	1.093	0.2376	
+	+	+	+	+	+	
97C05025	24.54	584.9	0	3259	105.4	
97C05026	22.76	2936	0	956.4	218.7	
97C05027	25.76	2245	0	4194	219.7	
97C05028	28.45	1061	0	3412	114.8	
97C05029	22.34	296.1	555	1054	20.68	
+	+	+	+	+	+	
97C05030	20.63	1453	0	2733	41.94	
97C05031	19.56	1901	0	4311	226	
97C05033	23.27	2539	0	2544	222.2	
97C05033MS	18.39	1991	0	4307	226.8	
97C05033MSD	28.48	2599	0	2566	222.1	
+	+	+	+	+	+	
CCV1660_1.0	0.1735	0.9124	0.1088	0.8472	0.1785	
97C05032	20.82	132.2	734.4	699.7	18.09	
97C05034	24.34	2121	0	4348	225.8	
97C05035	20.59	1045	0	3241	105.7	
97C05036	25.92	780.9	0	3560	131.1	
+	+	+	+	+	+	

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PENelson ACCESS*CHROM V1.8 Peak Summary Worksheet

Sample Name	CL4XYL Result	PCB016 Result	PCB254 Result	PCB260 Result	DBUCLE Result	Peak RT Mean / RT SD / Response
	7.6544	15.209	19.567	21.866	25.106	
	6.8832E-03	1.258	1.507	1.469	7.8486E-03	
97C05037	21.2	72.07	83.04	130.8	10.79	
97C05038	20.4	1865	0	3072	82.21	
97C05039	17.93	799	0	2844	81.43	
CCV1660_1.0	0.1982	0.9565	0.1198	0.9418	0.2014	
PRIME	0.2513	0.95	0.1456	1.246	0.258	
+	+	+	+	+	+	
CCV1660_1.0	0.2244	0.9909	0.1293	1.087	0.2276	
$1254_2.0	0	0	0	0	0	
$1254_1.0	0	0	0	0	0	
$1254_0.10	0	0	0	0	0	
$1254_0.20	0	0	0	0	0	
+	+	+	+	+	+	
$1254_0.02	0	0	0	0	0	
ICV1254_1.0	0.1867	0.297	0.8763	0.6345	0.1241	
97C05021 X50	0.3938	71.46	151.7	246.2	3.107	
97C05020 X50	0.3509	42.51	129.2	119.4	1.902	
97C05022 X50	0.4808	38.48	143.4	144.2	2.462	
+	+	+	+	+	+	
97C05024 X50	0.3885	15.39	74.06	75.41	1.494	
97C05025 X50	0.3556	15.78	123	121.2	2.171	
97C05026 X20		28.33	101.1	95.17	1.314	
97C05027 X20	0.1198	14.82	107.2	105.9	1.629	
97C05028 X20	0.1627	4.456	42.3	44.69	1.149	
+	+	+	+	+	+	
97C05029 X10	2.177	29.11	63.23	200.2	2.117	
97C05030 X50	0.3065	20.63	44.03	225.2	1.014	
CCV1660_1.0	0.1935	0.9254	0.1209	1.011	0.2079	
97C05031 X50	5.9146E-02	12.21	62.47	71.52	1.13	
97C05033 X20		7.169	34.85	40.12	0.8482	
+	+	+	+	+	+	
97C05033MS X		3.173	13.83	16.56	0.6864	
97C05033MSD		7.74	33.97	38.63	0.8234	
97C05032 X5	3.796	30.99	144.9	155.1	2.954	
97C05034 X50	4.9364E-02	15.04	79.16	84.39	1.143	
97C05035 X10	0.1861	9.366	81.67	80.91	1.533	
+	+	+	+	+	+	
97C05036 X10	0.17	1.558	61.67	62.74	1.464	
97C05038 X10	0.166	21.37	55.7	82.75	1.109	
97C05039 X10	0.1928	14.9	68.06	68.91	1.368	
CCV1660_1.0	0.1993	1.068	0.1413	1.092	0.2127	

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Section 3.
Environmental Organic Analysis
(Rev. 1: 3/95)

Calibration Data (Primary Column)
Inventory Checklist

☒ The initial calibration consists of the following:

- ▲ Calibration standards
- ▲ Initial Calibration Verification (ICV) solution
- ▲ Mid-range pattern identification standards (if applicable)
- ▲ Breakdown calculation solution (if not accommodated by calibration standards)

☒ Continuing Calibration (in sequence-specified order)

Section 3.
Calibration Data (Primary Column)
Reviewer Checklist

X The calibration data inventory checklist above is complete.

X The calibration data has been verified for the following:

- ☞ Response data are consistent with tabular summary sheets for all data.
- ☞ For each analyte on the tabular summary, the retention time is consistent with the calibration standards.
- ☞ The low standards are clearly distinguished from the baseline.
- ☞ Integration is consistent with good chromatography practices unless otherwise specified on raw data.
- ☞ When multi-component analytes are being quantitated, the total response is shown on each raw data file for each multi-peak method used.
- ☞ No saturated peaks have been used for quantitation.
- ☞ Manual edits have been initialed and dated by the analyst.
- ☞ All method headers reflect correct analysis data.

X Unless otherwise stated with reasoning in the case narrative, the following QC has been verified:

- ☞ Breakdown criteria for endrin and 4,4'-DDT has been met (if applicable).
- ☞ All continuing calibration response and retention time window criteria have been met.
- ☞ The Initial Calibration Verification criteria has been met.

Date.....17-NOV-1997 17:40:47.10 User: TAYLORC
Report number.....1197250737
Raw file.....DISK:[TAYLORC]5997316008.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;83
Last method update..17-NOV-1997 17:40:53.42

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Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....14

12/5/97

Acq. date.....12-NOV-1997 19:44:14
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1660_2.0
Notes.....138-WS-27590-1

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....67
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Calib. factors.....Replace Retention times.....Unaltered
Volume injected.....1.00000 (1/x,y) exponent....-1

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: $1660_2.0

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std
CL4XYL	7.651	515210	0.40000	1.288E+06	
PCB016;1	13.669	170979	0.40000	4.274E+05	
PCB016;2	14.341	74285	0.40000	1.857E+05	
PCB016;3	14.888	60403	0.40000	1.510E+05	
PCB016;4	16.483	30386	0.40000	7.596E+04	
PCB016;5	16.821	48102	0.40000	1.203E+05	

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PCB254;1	17.955	57776		
PCB254;2	18.498	1392		
PCB254;3	19.603	1895		
PCB254;4	19.860	9624		
PCB260;1	20.273	81234	0.40000	2.031E+05
PCB260;2	20.994	123519	0.40000	3.088E+05
PCB260;3	21.338	146681	0.40000	3.667E+05
PCB254;5	22.453	413		
PCB260;4	22.663	83152	0.40000	2.079E+05
PCB260;5	24.599	83519	0.40000	2.088E+05
DBUCLE	25.111	510421	0.40000	1.276E+06
CL10BP	32.531	799	0.40000	1.998E+03

METHOD CALIBRATION CHANGES

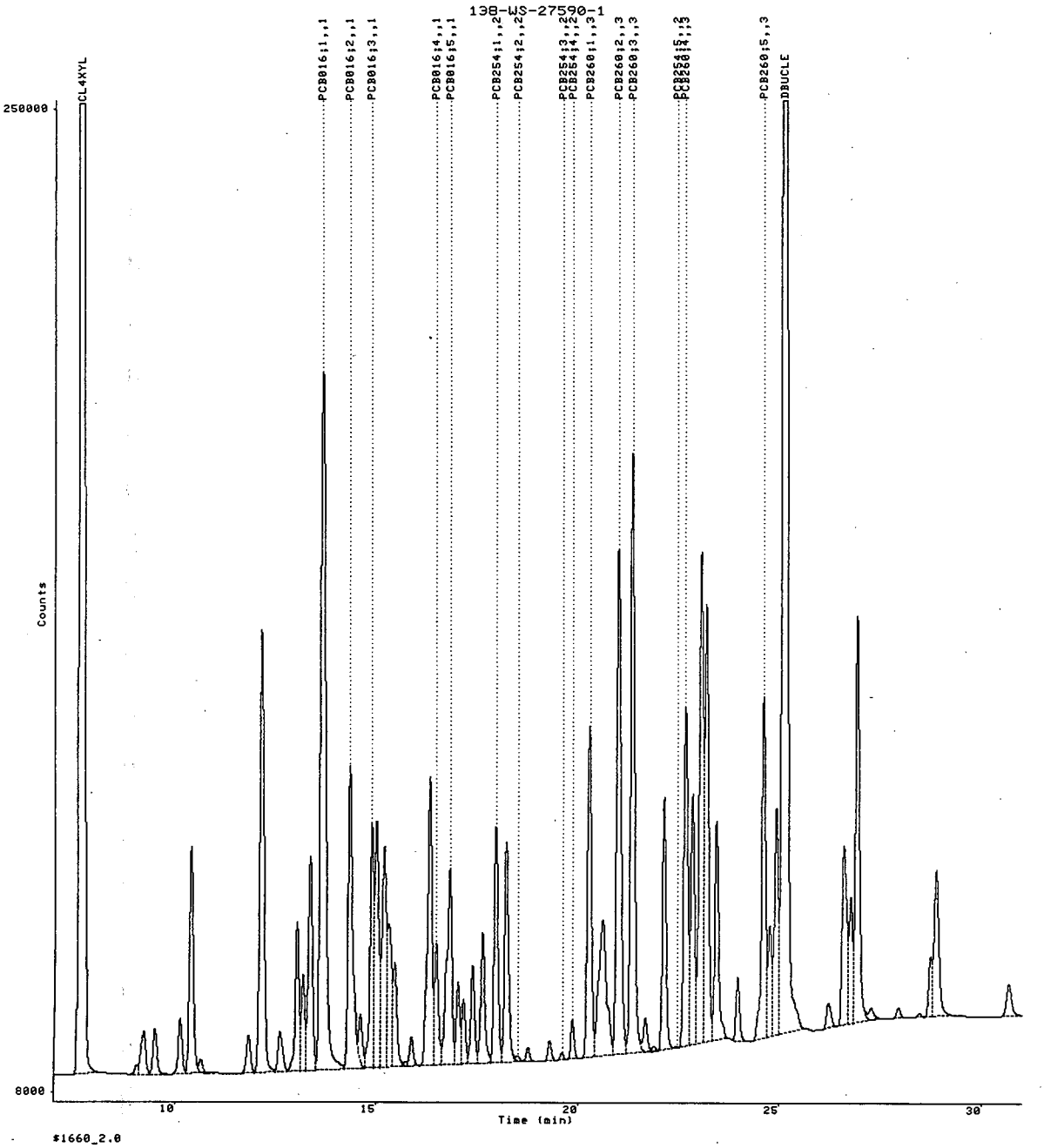
Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	7.672	7.672	1.288E+06	1.288E+06		1
PCB016;1	13.666	13.666	4.274E+05	4.274E+05		1
PCB016;2	14.342	14.342	1.857E+05	1.857E+05		1
PCB016;3	14.892	14.892	1.510E+05	1.510E+05		1
PCB016;4	16.477	16.477	7.596E+04	7.596E+04		1
PCB016;5	16.832	16.832	1.203E+05	1.203E+05		1
PCB254;1	17.960	17.960				0
PCB254;2	18.511	18.511				0
PCB254;3	19.613	19.613				0
PCB254;4	19.865	19.865				0
PCB260;1	20.295	20.295	2.031E+05	2.031E+05		1
PCB260;2	21.012	21.012	3.088E+05	3.088E+05		1
PCB260;3	21.358	21.358	3.667E+05	3.667E+05		1
PCB254;5	22.457	22.457				0
PCB260;4	22.656	22.656	2.079E+05	2.079E+05		1
PCB260;5	24.605	24.605	2.088E+05	2.088E+05		1
DBUCLE	25.129	25.129	1.276E+06	1.276E+06		1
CL10BP	32.582	32.582	1.998E+03	1.998E+03		1

ANALYSIS NOTES

1: ERROR in calibration data for Sample or Internal Std. peak. (145)
2: WARNING: Peak windows overlap. Check peak identification. (245)

0165

Data file: DISK:[TAYLORC]5997316008.RAW;1
Report: 1197250737
Acquired: 12-NOV-1997 19:44:14
Time range: 7.00-31.00



0166

Date.....17-NOV-1997 17:41:02.35 User: TAYLORC
Report number.....1197250738
Raw file.....DISK:[TAYLORC]5997316009.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;84
Last method update..17-NOV-1997 17:41:08.50

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....14

Acq. date.....12-NOV-1997 20:21:40
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1660_1.0
Notes.....138-WS-27590-2

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....67
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Calib. factors.....Replace Retention times.....Unaltered
Volume injected.....1.00000 (1/x,y) exponent....-1

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: $1660_1.0

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std
CL4XYL	7.658	263489	0.20000	1.317E+06	
PCB016;1	13.671	86923	0.20000	4.346E+05	
PCB016;2	14.344	37235	0.20000	1.862E+05	
PCB016;3	14.889	28116	0.20000	1.406E+05	
PCB016;4	16.484	14163	0.20000	7.082E+04	
PCB016;5	16.822	21910	0.20000	1.096E+05	
PCB254;1	17.957	29192			
PCB254;2	18.503	688			
PCB254;3	19.605	990			

PCB254;4	19.860	4731		
PCB260;1	20.274	41877	0.20000	2.094E+05
PCB260;2	20.995	64491	0.20000	3.225E+05
PCB260;3	21.339	76226	0.20000	3.811E+05
PCB254;5	22.454	250		
PCB260;4	22.663	42337	0.20000	2.117E+05
PCB260;5	24.599	41864	0.20000	2.093E+05
DBUCLE	25.111	261803	0.20000	1.309E+06
CL10BP	32.539	409	0.20000	2.045E+03

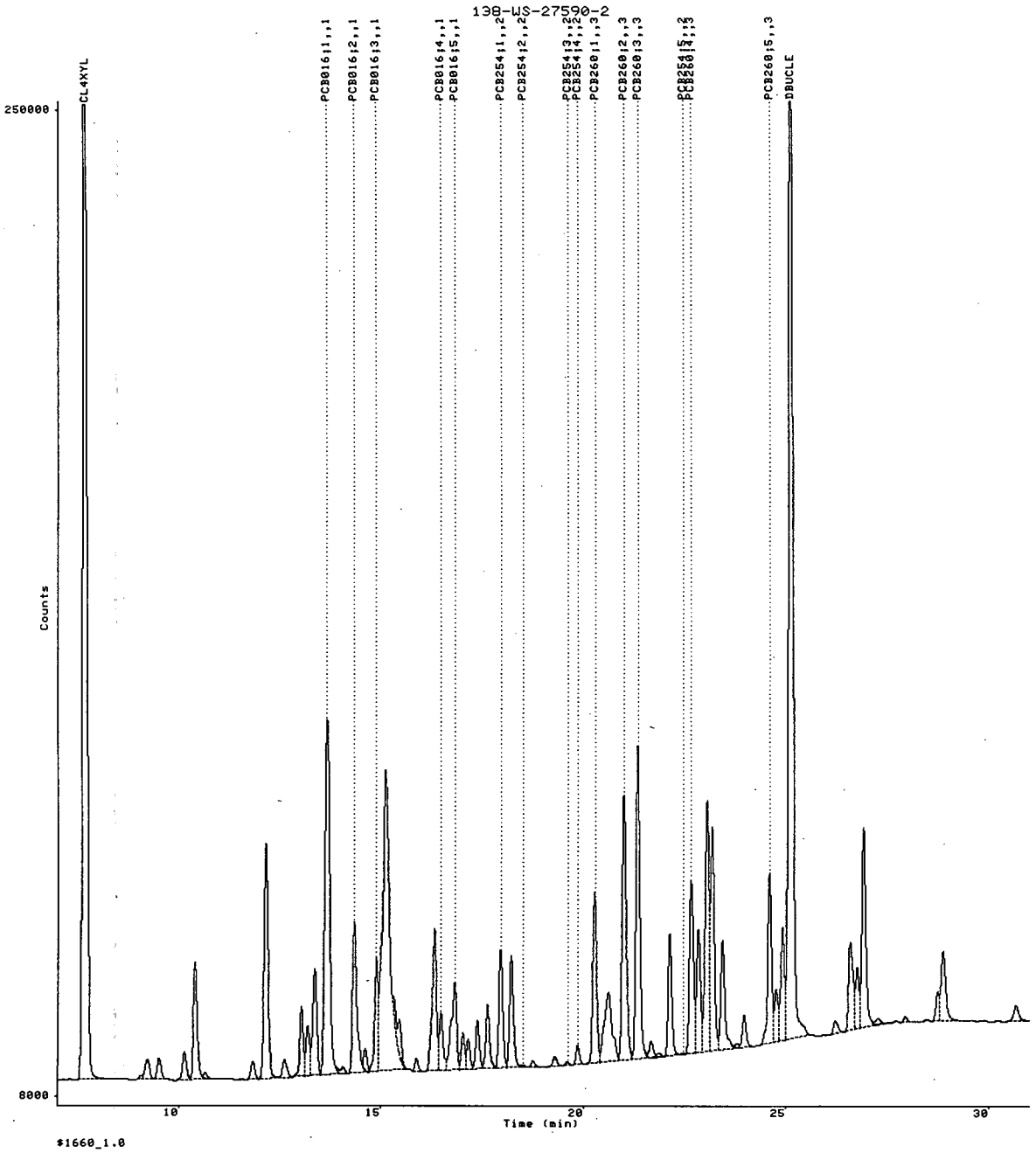
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	7.672	7.672	1.317E+06	1.317E+06		1
PCB016;1	13.666	13.666	4.346E+05	4.346E+05		1
PCB016;2	14.342	14.342	1.862E+05	1.862E+05		1
PCB016;3	14.892	14.892	1.406E+05	1.406E+05		1
PCB016;4	16.477	16.477	7.082E+04	7.082E+04		1
PCB016;5	16.832	16.832	1.096E+05	1.096E+05		1
PCB254;1	17.960	17.960				0
PCB254;2	18.511	18.511				0
PCB254;3	19.613	19.613				0
PCB254;4	19.865	19.865				0
PCB260;1	20.295	20.295	2.094E+05	2.094E+05		1
PCB260;2	21.012	21.012	3.225E+05	3.225E+05		1
PCB260;3	21.358	21.358	3.811E+05	3.811E+05		1
PCB254;5	22.457	22.457				0
PCB260;4	22.656	22.656	2.117E+05	2.117E+05		1
PCB260;5	24.605	24.605	2.093E+05	2.093E+05		1
DBUCLE	25.129	25.129	1.309E+06	1.309E+06		1
CL10BP	32.582	32.582	2.045E+03	2.045E+03		1

ANALYSIS NOTES

1: ERROR in calibration data for Sample or Internal Std. peak. (145)
2: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]5997316009.RAW;1
Report: 1197250738
Acquired: 12-NOV-1997 20:21:40
Time range: 7.00-31.00



0169

Date.....17-NOV-1997 17:41:16.98 User: TAYLORC
Report number.....1197250739
Raw file.....DISK:[TAYLORC]5997316010.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;85
Last method update..17-NOV-1997 17:41:22.92

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....14

Acq. date.....12-NOV-1997 20:59:03
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1660_.20
Notes.....138-WS-27590-3

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min	Delay time.....7.000 min
Area reject.....100 count(s)	No. peaks found.....60
Noise threshold.....10.0 microvolts	Area threshold.....120
Start peak width....6.00 sec(s)	Area/Pk.Ht.....H
Min. window.....8.00 sec	% window.....0.00
Analysis type.....EXTERNAL STANDARD	A/D range.....1.0 volt(s)
Sample rack.....25	
Sample vial.....25	
Analysis fit.....Quadratic	Origin treatment....Ignore
Calib. factors.....Replace	Retention times.....Unaltered
Volume injected.....1.00000	(1/x,y) exponent....-1

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
18.51	PCB254;2	2		
22.46	PCB254;5	2		
32.58	CL10BP			

EXTERNAL STANDARD CALIBRATION

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Calibration Sample name: $1660_.20

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std

CL4XYL	7.654	50368	4.0000E-02	1.259E+06		
PCB016;1	13.672	15507	4.0000E-02	3.877E+05		
PCB016;2	14.347	6555	4.0000E-02	1.639E+05		
PCB016;3	14.893	4380	4.0000E-02	1.095E+05		
PCB016;4	16.487	2514	4.0000E-02	6.285E+04		
PCB016;5	16.824	3543	4.0000E-02	8.858E+04		
PCB254;1	17.960	5202				
PCB254;3	19.614	105				
PCB254;4	19.868	641				
PCB260;1	20.275	6429	4.0000E-02	1.607E+05		
PCB260;2	20.998	10782	4.0000E-02	2.696E+05		
PCB260;3	21.343	11622	4.0000E-02	2.906E+05		
PCB260;4	22.665	6938	4.0000E-02	1.734E+05		
PCB260;5	24.602	6246	4.0000E-02	1.562E+05		
DBUCLE	25.114	35968	4.0000E-02	8.992E+05		

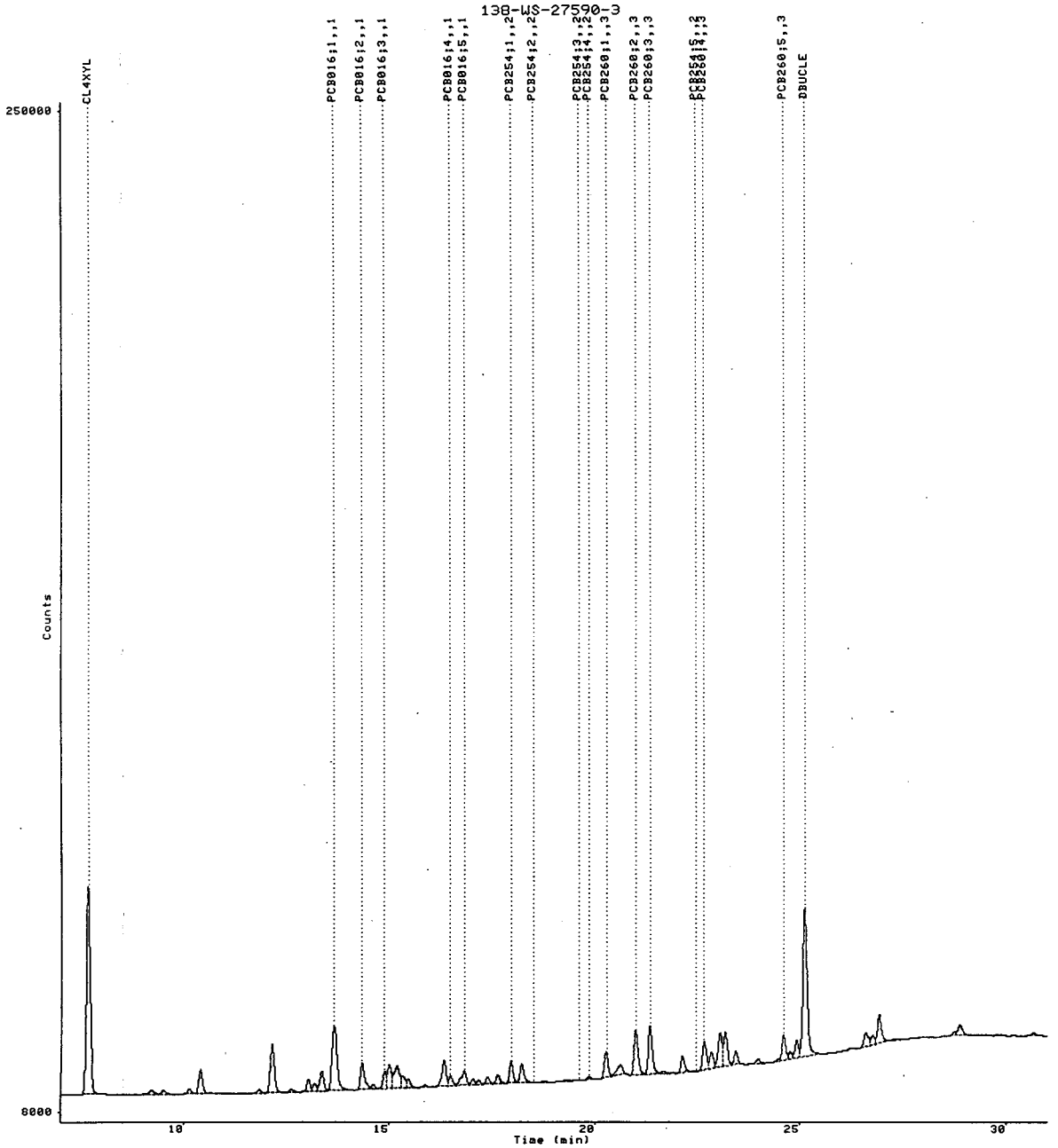
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	7.672	7.672	1.259E+06	1.259E+06		1
PCB016;1	13.666	13.666	3.877E+05	3.877E+05		1
PCB016;2	14.342	14.342	1.639E+05	1.639E+05		1
PCB016;3	14.892	14.892	1.095E+05	1.095E+05		1
PCB016;4	16.477	16.477	6.285E+04	6.285E+04		1
PCB016;5	16.832	16.832	8.858E+04	8.858E+04		1
PCB254;1	17.960	17.960				0
PCB254;3	19.613	19.613				0
PCB254;4	19.865	19.865				0
PCB260;1	20.295	20.295	1.607E+05	1.607E+05		1
PCB260;2	21.012	21.012	2.696E+05	2.696E+05		1
PCB260;3	21.358	21.358	2.906E+05	2.906E+05		1
PCB260;4	22.656	22.656	1.734E+05	1.734E+05		1
PCB260;5	24.605	24.605	1.562E+05	1.562E+05		1
DBUCLE	25.129	25.129	8.992E+05	8.992E+05		1

ANALYSIS NOTES

1: ERROR in calibration data for Sample or Internal Std. peak. (145)
2: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]5997316010.RAW;1
Report: 1197250739
Acquired: 12-NOV-1997 20:59:03
Time range: 7.00-31.00



$1660_.20

0172

Date.....17-NOV-1997 17:41:32.07 User: TAYLORC
Report number.....1197250740
Raw file.....DISK:[TAYLORC]5997316011.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;86
Last method update..17-NOV-1997 17:41:38.21

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....14

Acq. date.....12-NOV-1997 21:36:06
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1660_.10
Notes.....138-WS-27590-4

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....	34.001 min	Delay time.....	7.000 min
Area reject.....	100 count(s)	No. peaks found.....	59
Noise threshold.....	10.0 microvolts	Area threshold.....	120
Start peak width....	6.00 sec(s)	Area/Pk.Ht.....	H
Min. window.....	8.00 sec	% window.....	0.00
Analysis type.....	EXTERNAL STANDARD	A/D range.....	1.0 volt(s)
Sample rack.....	25		
Sample vial.....	25		
Analysis fit.....	Quadratic	Origin treatment....	Ignore
Calib. factors.....	Replace	Retention times.....	Unaltered
Volume injected.....	1.00000	(1/x,y) exponent....	-1

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

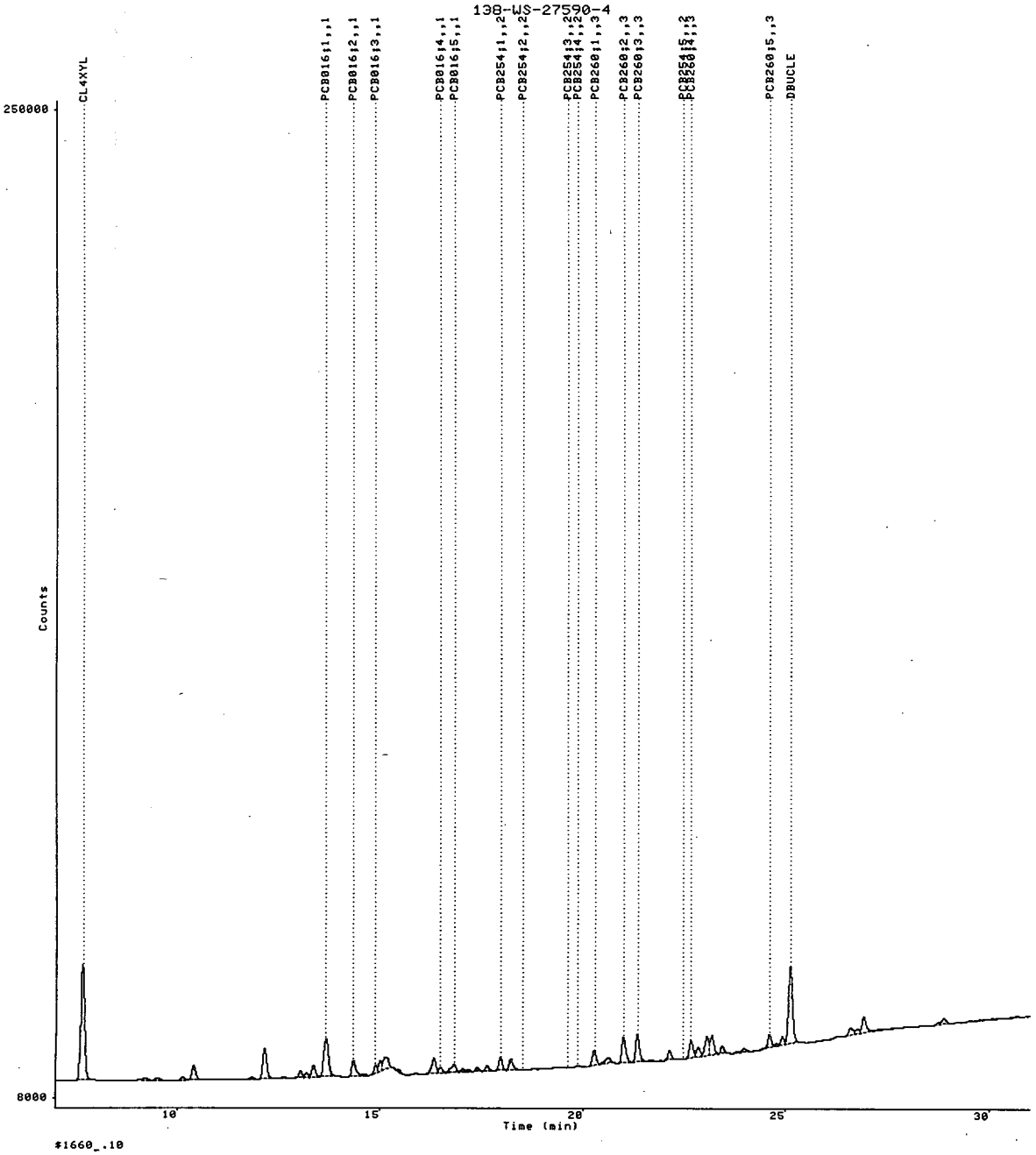
R.T.(min)	Peak name	Group	Ref	Std
18.51	PCB254;2	2		
19.61	PCB254;3	2		
22.46	PCB254;5	2		
32.58	CL10BP			

EXTERNAL STANDARD CALIBRATION

0173

Calibration Sample name: $1660_.10

Data file: DISK:[TAYLORC]5997316011.RAW;1
Report: 1197250740
Acquired: 12-NOV-1997 21:36:06
Time range: 7.00-31.00



0175

Date.....17-NOV-1997 17:41:46.34 User: TAYLORC
Report number.....1197250741
Raw file.....DISK:[TAYLORC]5997316012.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;87
Last method update..17-NOV-1997 17:41:52.55

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....14

Acq. date.....12-NOV-1997 22:13:27
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1660_.02
Notes.....138-WS-27588-1

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....	34.001 min	Delay time.....	7.000 min
Area reject.....	100 count(s)	No. peaks found.....	42
Noise threshold.....	10.0 microvolts	Area threshold.....	120
Start peak width....	6.00 sec(s)	Area/Pk.Ht.....	H
Min. window.....	8.00 sec	% window.....	0.00
Analysis type.....	EXTERNAL STANDARD	A/D range.....	1.0 volt(s)
Sample rack.....	25		
Sample vial.....	25		
Analysis fit.....	Quadratic	Origin treatment....	Ignore
Calib. factors.....	Replace	Retention times.....	Unaltered
Volume injected.....	1.00000	(1/x,y) exponent....	-1

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
18.51	PCB254;2	2		
19.61	PCB254;3	2		
22.46	PCB254;5	2		
32.58	CL10BP			

EXTERNAL STANDARD CALIBRATION

0176

Calibration Sample name: $1660_.02

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std
CL4XYL	7.648	5143	4.0000E-03	1.286E+06	
PCB016;1	13.669	1751	4.0000E-03	4.377E+05	
PCB016;2	14.347	756	4.0000E-03	1.890E+05	
PCB016;3	14.893	407	4.0000E-03	1.017E+05	
PCB016;4	16.490	235	4.0000E-03	5.875E+04	
PCB016;5	16.826	351	4.0000E-03	8.775E+04	
PCB254;1	17.960	602			
PCB254;4	19.889	77			
PCB260;1	20.277	744	4.0000E-03	1.860E+05	
PCB260;2	20.998	1272	4.0000E-03	3.180E+05	
PCB260;3	21.344	1330	4.0000E-03	3.325E+05	
PCB260;4	22.668	845	4.0000E-03	2.112E+05	
PCB260;5	24.605	606	4.0000E-03	1.515E+05	
DBUCLE	25.113	3384	4.0000E-03	8.460E+05	

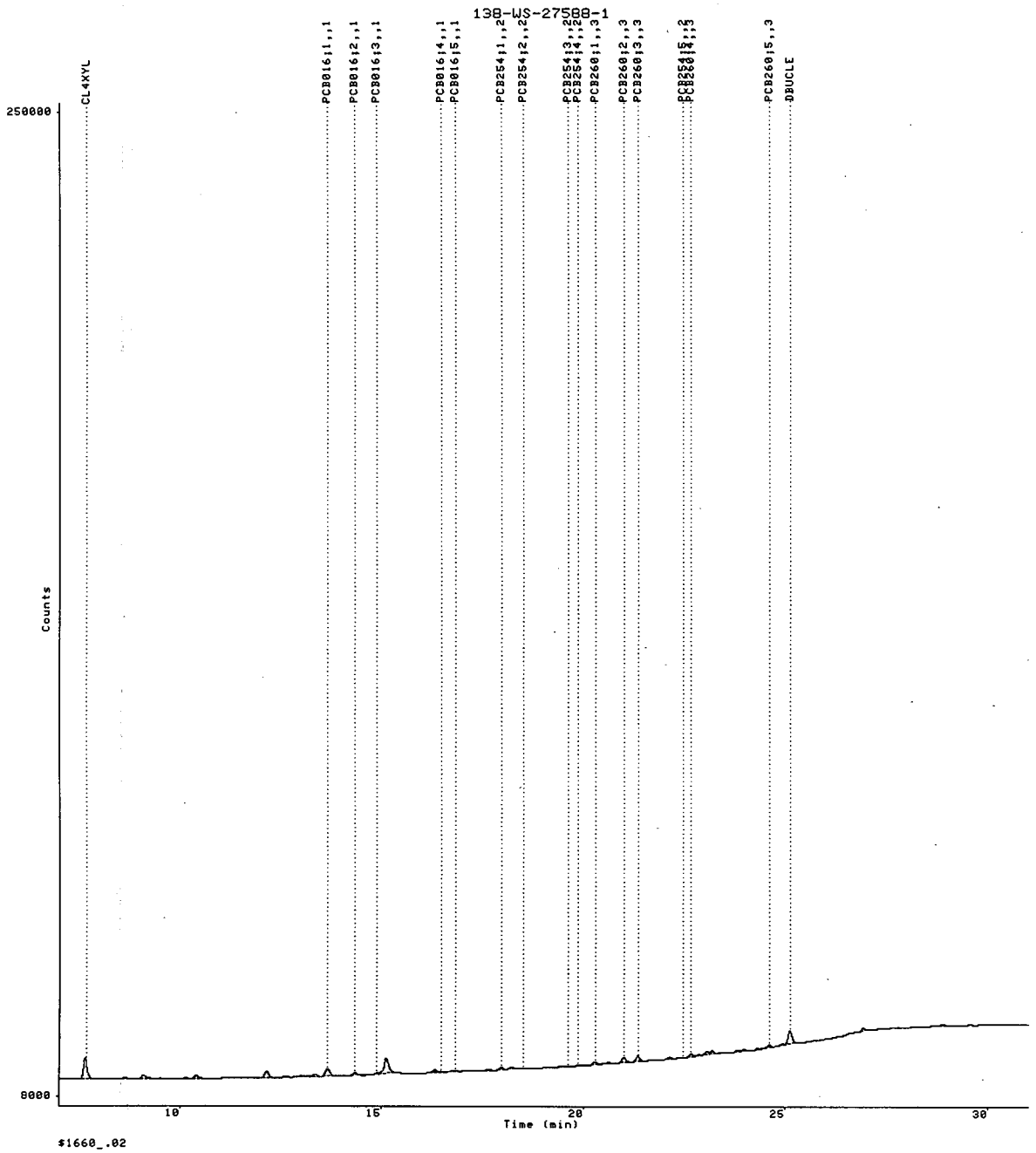
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	7.672	7.672	1.286E+06	1.286E+06		1
PCB016;1	13.666	13.666	4.378E+05	4.377E+05		1
PCB016;2	14.342	14.342	1.890E+05	1.890E+05		1
PCB016;3	14.892	14.892	1.018E+05	1.017E+05		1
PCB016;4	16.477	16.477	5.875E+04	5.875E+04		1
PCB016;5	16.832	16.832	8.775E+04	8.775E+04		1
PCB254;1	17.960	17.960				0
PCB254;4	19.865	19.865				0
PCB260;1	20.295	20.295	1.860E+05	1.860E+05		1
PCB260;2	21.012	21.012	3.180E+05	3.180E+05		1
PCB260;3	21.358	21.358	3.325E+05	3.325E+05		1
PCB260;4	22.656	22.656	2.112E+05	2.112E+05		1
PCB260;5	24.605	24.605	1.515E+05	1.515E+05		1
DBUCLE	25.129	25.129	8.460E+05	8.460E+05		1

ANALYSIS NOTES

1: ERROR in calibration data for Sample or Internal Std. peak. (145)
2: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]5997316012.RAW;1
Report: 1197250741
Acquired: 12-NOV-1997 22:13:27
Time range: 7.00-31.00



0178

Date.....17-NOV-1997 17:42:02.45 User: TAYLORC
Report number.....1197250742
Raw file.....DISK:[TAYLORC]5997316056.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;88
Last method update..17-NOV-1997 17:42:08.92

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....5

Acq. date.....15-NOV-1997 14:23:39
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1254_2.0
Notes.....138-WS-27591

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....59
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Calib. factors.....Replace Retention times.....Unaltered
Volume injected.....1.00000 (1/x,y) exponent....-1

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
16.48	PCB016;4	1		
32.58	CL10BP			

EXTERNAL STANDARD CALIBRATION 0179

Calibration Sample name: $1254_2.0

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref	Std

CL4XYL	7.659	465579		
PCB016;1	13.654	3117		
PCB016;2	14.346	835		
PCB016;3	15.010	63565		
PCB016;5	16.826	12092		
PCB254;1	17.957	101083	0.40000	2.527E+05
PCB254;2	18.508	46194	0.40000	1.155E+05
PCB254;3	19.609	40144	0.40000	1.004E+05
PCB254;4	19.863	72357	0.40000	1.809E+05
PCB260;1	20.296	146774		
PCB260;2	20.996	47502		
PCB260;3	21.337	52376		
PCB254;5	22.460	42880	0.40000	1.072E+05
PCB260;4	22.649	37813		
PCB260;5	24.597	4185		
DBUCLE	25.101	286816		

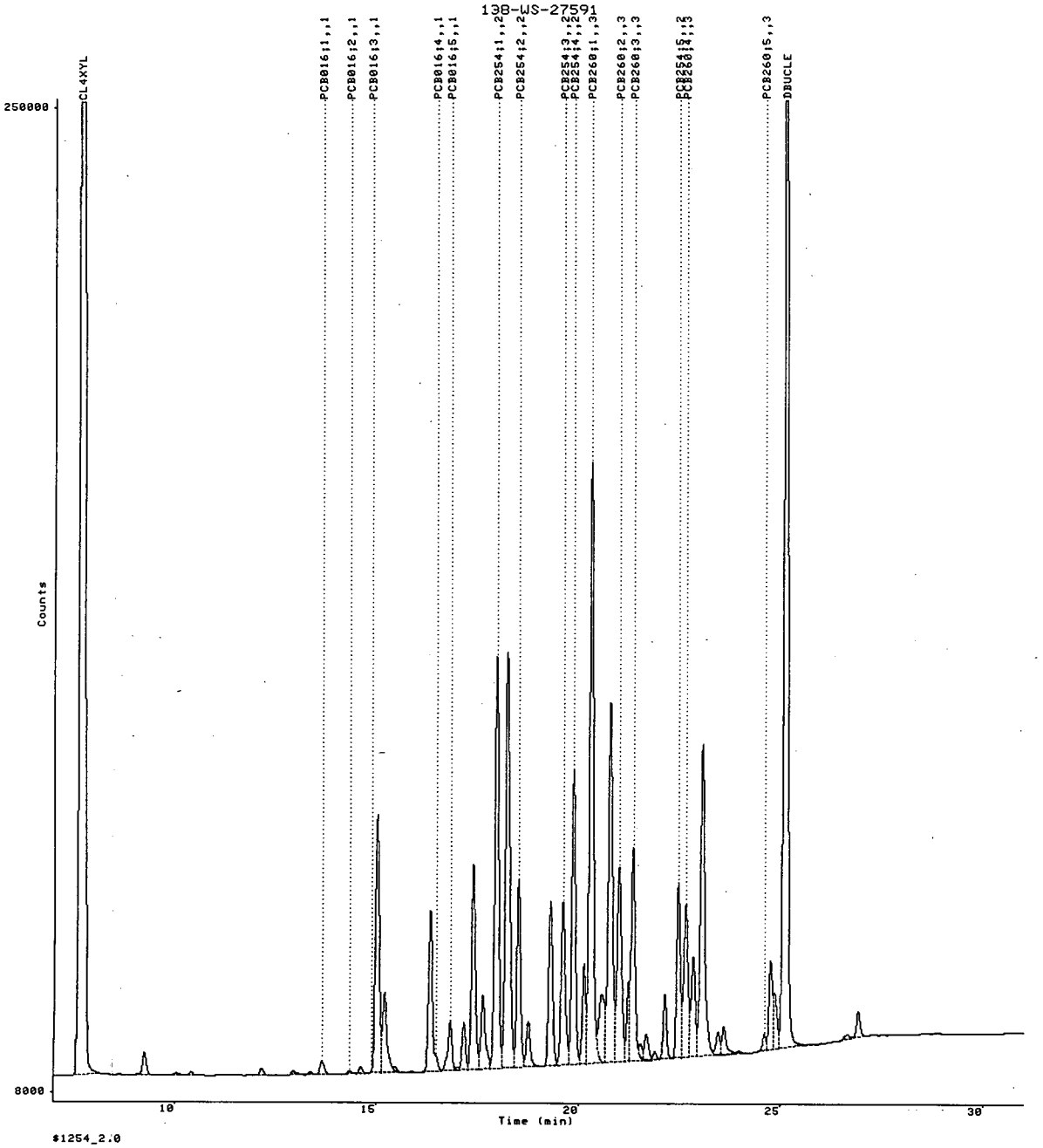
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	7.672	7.672				0
PCB016;1	13.666	13.666				0
PCB016;2	14.342	14.342				0
PCB016;3	14.892	14.892				0
PCB016;5	16.832	16.832				0
PCB254;1	17.960	17.960	2.527E+05	2.527E+05		1
PCB254;2	18.511	18.511	1.155E+05	1.155E+05		1
PCB254;3	19.613	19.613	1.004E+05	1.004E+05		1
PCB254;4	19.865	19.865	1.809E+05	1.809E+05		1
PCB260;1	20.295	20.295				0
PCB260;2	21.012	21.012				0
PCB260;3	21.358	21.358				0
PCB254;5	22.457	22.457	1.072E+05	1.072E+05		1
PCB260;4	22.656	22.656				0
PCB260;5	24.605	24.605				0
DBUCLE	25.129	25.129				0

ANALYSIS NOTES

1: ERROR in calibration data for Sample or Internal Std. peak. (145)
2: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]5997316056.RAW;1
Report: 1197250742
Acquired: 15-NOV-1997 14:23:39
Time range: 7.00-31.00



0181

Date.....17-NOV-1997 17:42:17.78 User: TAYLORC
Report number.....1197250743
Raw file.....DISK:[TAYLORC]5997316057.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;89
Last method update..17-NOV-1997 17:42:24.09

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....5

Acq. date.....15-NOV-1997 15:01:05
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1254_1.0
Notes.....138-WS-27591

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....60
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Calib. factors.....Replace Retention times.....Unaltered
Volume injected.....1.00000 (1/x,y) exponent....-1

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
16.48	PCB016;4	1		
32.58	CL10BP			

EXTERNAL STANDARD CALIBRATION 0182

Calibration Sample name: $1254_1.0

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref	Std

CL4XYL	7.652	293728		
PCB016;1	13.649	1687		
PCB016;2	14.342	421		
PCB016;3	15.006	37197		
PCB016;5	16.822	6508		
PCB254;1	17.954	59557	0.20000	2.978E+05
PCB254;2	18.505	27382	0.20000	1.369E+05
PCB254;3	19.606	24038	0.20000	1.202E+05
PCB254;4	19.860	42906	0.20000	2.145E+05
PCB260;1	20.294	89390		
PCB260;2	20.993	29116		
PCB260;3	21.335	31960		
PCB254;5	22.458	26506	0.20000	1.325E+05
PCB260;4	22.647	23092		
PCB260;5	24.596	2499		
DBUCLE	25.099	176348		

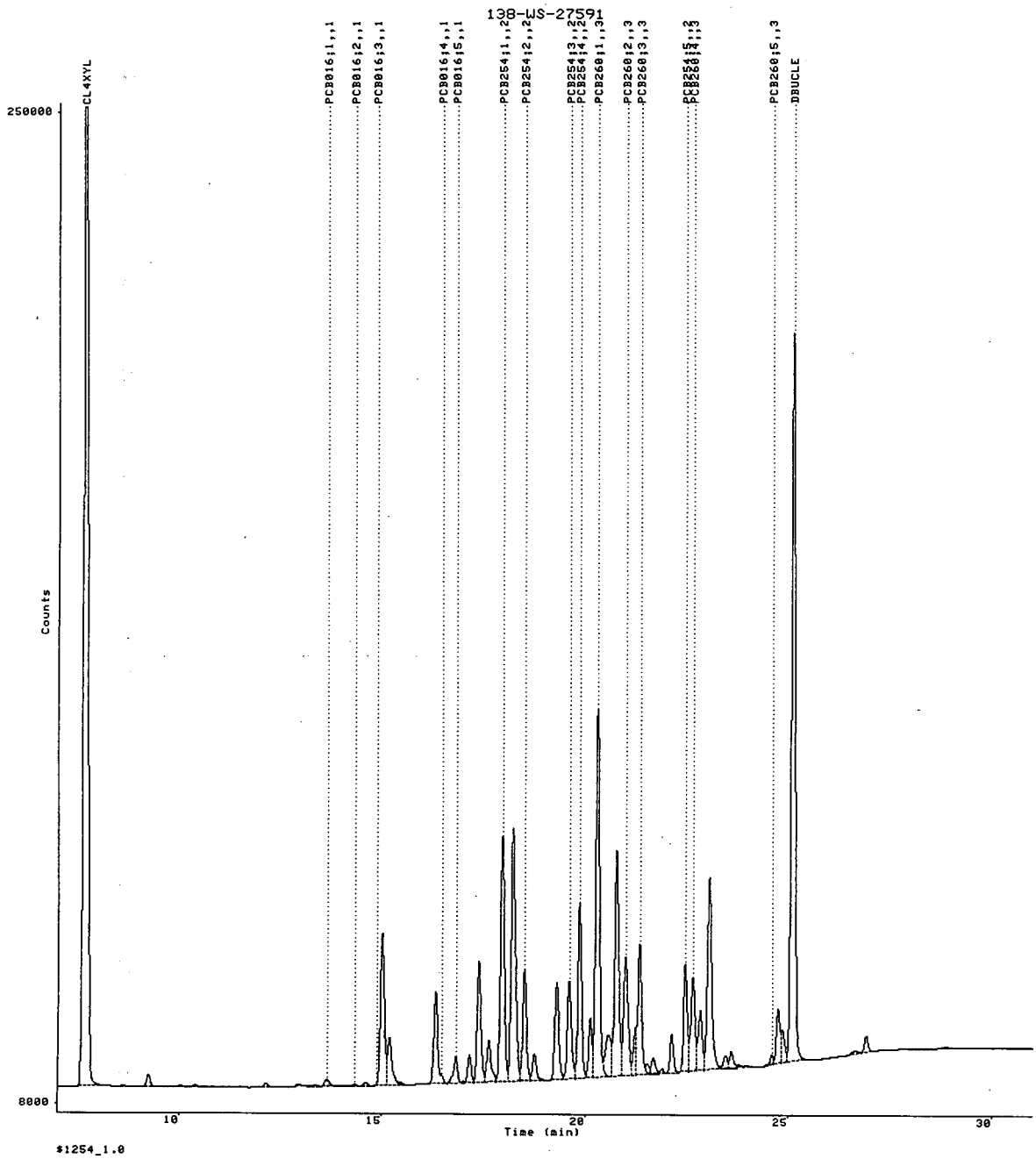
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	7.672	7.672				0
PCB016;1	13.666	13.666				0
PCB016;2	14.342	14.342				0
PCB016;3	14.892	14.892				0
PCB016;5	16.832	16.832				0
PCB254;1	17.960	17.960	2.978E+05	2.978E+05		1
PCB254;2	18.511	18.511	1.369E+05	1.369E+05		1
PCB254;3	19.613	19.613	1.202E+05	1.202E+05		1
PCB254;4	19.865	19.865	2.145E+05	2.145E+05		1
PCB260;1	20.295	20.295				0
PCB260;2	21.012	21.012				0
PCB260;3	21.358	21.358				0
PCB254;5	22.457	22.457	1.325E+05	1.325E+05		1
PCB260;4	22.656	22.656				0
PCB260;5	24.605	24.605				0
DBUCLE	25.129	25.129				0

ANALYSIS NOTES

1: ERROR in calibration data for Sample or Internal Std. peak. (145)
2: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]5997316057.RAW;1
Report: 1197250743
Acquired: 15-NOV-1997 15:01:05
Time range: 7.00-31.00



0184

Date.....17-NOV-1997 17:42:32.42 User: TAYLORC
Report number.....1197250744
Raw file.....DISK:[TAYLORC]5997316059.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;90
Last method update..17-NOV-1997 17:42:38.66

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....5

Acq. date.....15-NOV-1997 17:51:01
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1254_0.10
Notes.....138-WS-27591

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min
Area reject.....100 count(s)
Noise threshold.....10.0 microvolts
Start peak width....6.00 sec(s)
Min. window.....8.00 sec

Delay time.....7.000 min
No. peaks found.....75
Area threshold.....120
Area/Pk.Ht.....H
% window.....0.00

Analysis type.....EXTERNAL STANDARD
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic
Calib. factors.....Replace
Volume injected.....1.00000

A/D range.....1.0 volt(s)

Origin treatment....Ignore
Retention times.....Unaltered
(1/x,y) exponent....-1

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
14.34	PCB016;2	1		
16.48	PCB016;4	1		
24.60	PCB260;5	3		
32.58	CL10BP			

0185

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: $1254_0.10

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std
CL4XYL	7.671	31149			
PCB016;1	13.676	1284			
PCB016;3	14.837	830			
PCB016;5	16.824	280			
PCB254;1	17.966	6425	2.0000E-02	3.212E+05	
PCB254;2	18.515	2771	2.0000E-02	1.386E+05	
PCB254;3	19.614	3315	2.0000E-02	1.658E+05	
PCB254;4	19.866	5176	2.0000E-02	2.588E+05	
PCB260;1	20.302	10034			
PCB260;2	21.002	3158			
PCB260;3	21.342	3212			
PCB254;5	22.460	3058	2.0000E-02	1.529E+05	
PCB260;4	22.656	2593			
DBUCLE	25.105	13492			

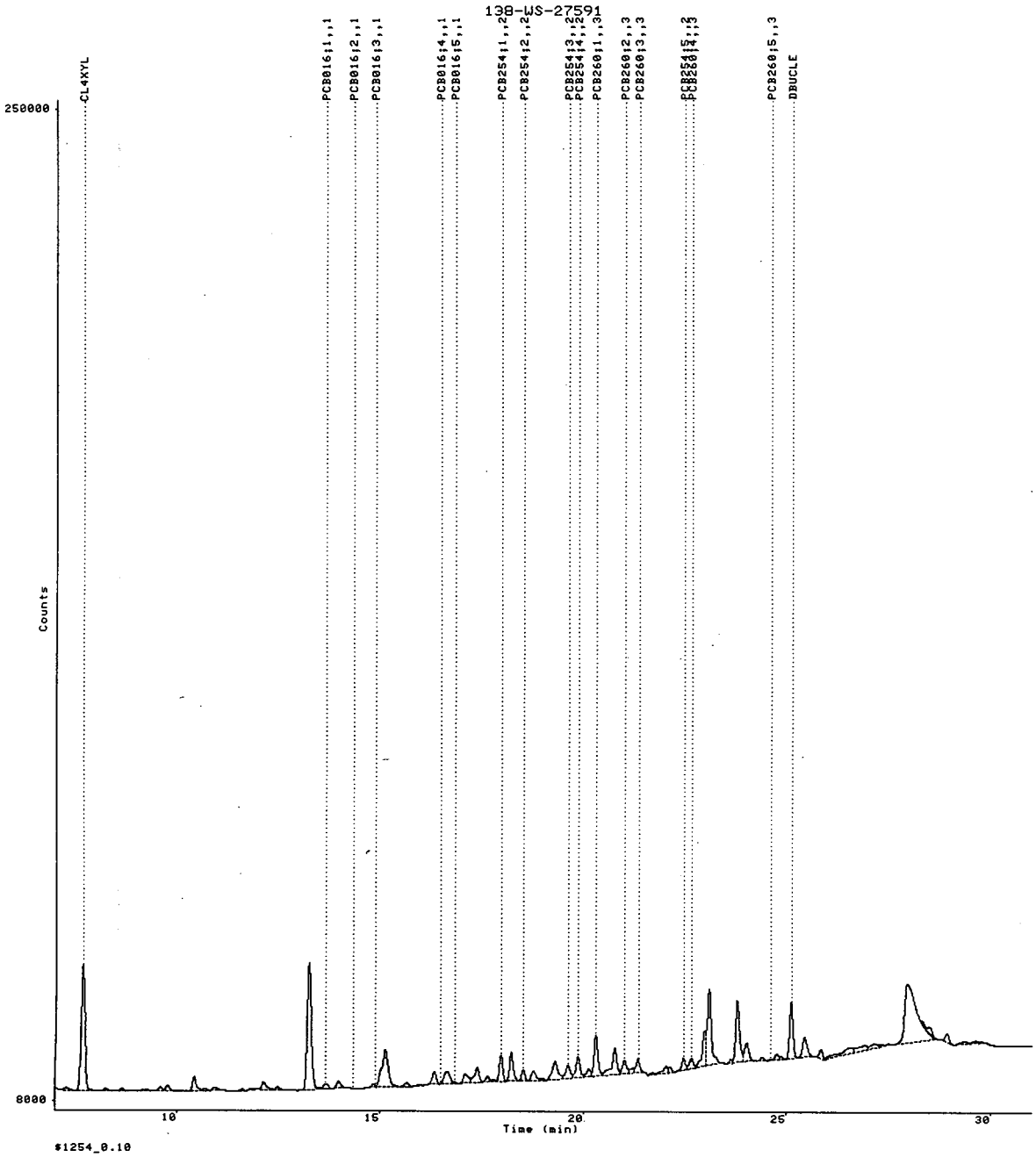
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	7.672	7.672				0
PCB016;1	13.666	13.666				0
PCB016;3	14.892	14.892				0
PCB016;5	16.832	16.832				0
PCB254;1	17.960	17.960	3.212E+05	3.212E+05		1
PCB254;2	18.511	18.511	1.386E+05	1.386E+05		1
PCB254;3	19.613	19.613	1.658E+05	1.658E+05		1
PCB254;4	19.865	19.865	2.588E+05	2.588E+05		1
PCB260;1	20.295	20.295				0
PCB260;2	21.012	21.012				0
PCB260;3	21.358	21.358				0
PCB254;5	22.457	22.457	1.529E+05	1.529E+05		1
PCB260;4	22.656	22.656				0
DBUCLE	25.129	25.129				0

ANALYSIS NOTES

1: ERROR in calibration data for Sample or Internal Std. peak. (145)
2: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]5997316059.RAW;1
Report: 1197250744
Acquired: 15-NOV-1997 17:51:01
Time range: 7.00-31.00



0187

Date.....17-NOV-1997 17:42:47.43 User: TAYLORC
Report number.....1197250745
Raw file.....DISK:[TAYLORC]5997316060.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;91
Last method update..17-NOV-1997 17:42:53.35

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....5

Acq. date.....15-NOV-1997 18:28:20
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1254_0.20
Notes.....138-WS-27591

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....51
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Calib. factors.....Replace Retention times.....Unaltered
Volume injected.....1.00000 (1/x,y) exponent....-1

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
14.34	PCB016;2	1		
16.48	PCB016;4	1		
32.58	CL10BP			

EXTERNAL STANDARD CALIBRATION 0188

Calibration Sample name: $1254_0.20

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref Std

CL4XYL	7.651	59287				
PCB016;1	13.647	288				
PCB016;3	15.007	7745				
PCB016;5	16.821	1083				
PCB254;1	17.954	11849	4.0000E-02	2.962E+05		
PCB254;2	18.506	4791	4.0000E-02	1.198E+05		
PCB254;3	19.604	4511	4.0000E-02	1.128E+05		
PCB254;4	19.858	7468	4.0000E-02	1.867E+05		
PCB260;1	20.293	16414				
PCB260;2	20.992	5749				
PCB260;3	21.334	5878				
PCB254;5	22.456	4468	4.0000E-02	1.117E+05		
PCB260;4	22.645	4192				
PCB260;5	24.596	332				
DBUCLE	25.096	26265				

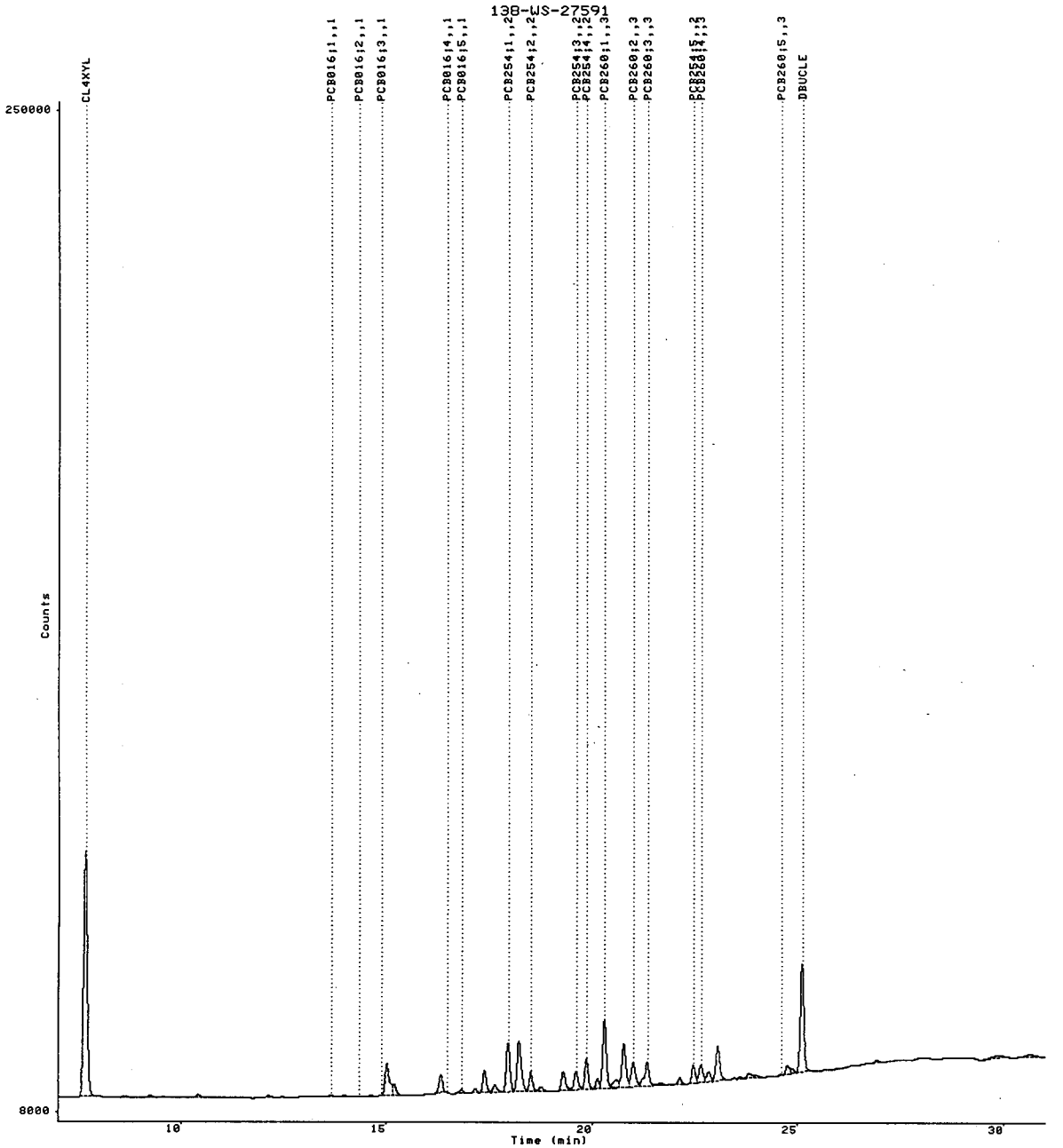
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	7.672	7.672				0
PCB016;1	13.666	13.666				0
PCB016;3	14.892	14.892				0
PCB016;5	16.832	16.832				0
PCB254;1	17.960	17.960	2.962E+05	2.962E+05		1
PCB254;2	18.511	18.511	1.198E+05	1.198E+05		1
PCB254;3	19.613	19.613	1.128E+05	1.128E+05		1
PCB254;4	19.865	19.865	1.867E+05	1.867E+05		1
PCB260;1	20.295	20.295				0
PCB260;2	21.012	21.012				0
PCB260;3	21.358	21.358				0
PCB254;5	22.457	22.457	1.117E+05	1.117E+05		1
PCB260;4	22.656	22.656				0
PCB260;5	24.605	24.605				0
DBUCLE	25.129	25.129				0

ANALYSIS NOTES

1: ERROR in calibration data for Sample or Internal Std. peak. (145)
2: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]5997316060.RAW;1
Report: 1197250745
Acquired: 15-NOV-1997 18:28:20
Time range: 7.00-31.00



$1254_0.20

0190

Date.....17-NOV-1997 17:43:02.92 User: TAYLORC
Report number.....1197250746
Raw file.....DISK:[TAYLORC]5997316061.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;92
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....15-NOV-1997 19:05:38
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....$1254_0.02
Notes.....138-WS-27591

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....	34.002 min	Delay time.....	7.000 min
Area reject.....	100 count(s)	No. peaks found.....	32
Noise threshold.....	10.0 microvolts	Area threshold.....	120
Start peak width....	6.00 sec(s)	Area/Pk.Ht.....	H
Min. window.....	8.00 sec	% window.....	0.00
Analysis type.....	EXTERNAL STANDARD	A/D range.....	1.0 volt(s)
Sample rack.....	25		
Sample vial.....	25		
Analysis fit.....	Quadratic	Origin treatment....	Ignore
Calib. factors.....	Replace	Retention times.....	Unaltered
Volume injected.....	1.00000	(1/x,y) exponent....	-1

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
13.67	PCB016;1	1		
14.34	PCB016;2	1		
14.89	PCB016;3	1		
16.48	PCB016;4	1		
24.60	PCB260;5	3		
32.58	CL10BP			

EXTERNAL STANDARD CALIBRATION

Calibration Sample name: $1254_0.02

Peak Name	R.T.(min)	Peak Ht	Conc	CF	Ref	Std
CL4XYL	7.648	5741				
PCB016;5	16.819	66				
PCB254;1	17.953	1572	4.0000E-03	3.930E+05		
PCB254;2	18.506	568	4.0000E-03	1.420E+05		
PCB254;3	19.603	497	4.0000E-03	1.242E+05		
PCB254;4	19.859	897	4.0000E-03	2.242E+05		
PCB260;1	20.292	1923				
PCB260;2	20.991	631				
PCB260;3	21.334	715				
PCB254;5	22.461	438	4.0000E-03	1.095E+05		
PCB260;4	22.648	526				
DBUCLE	25.093	2522				

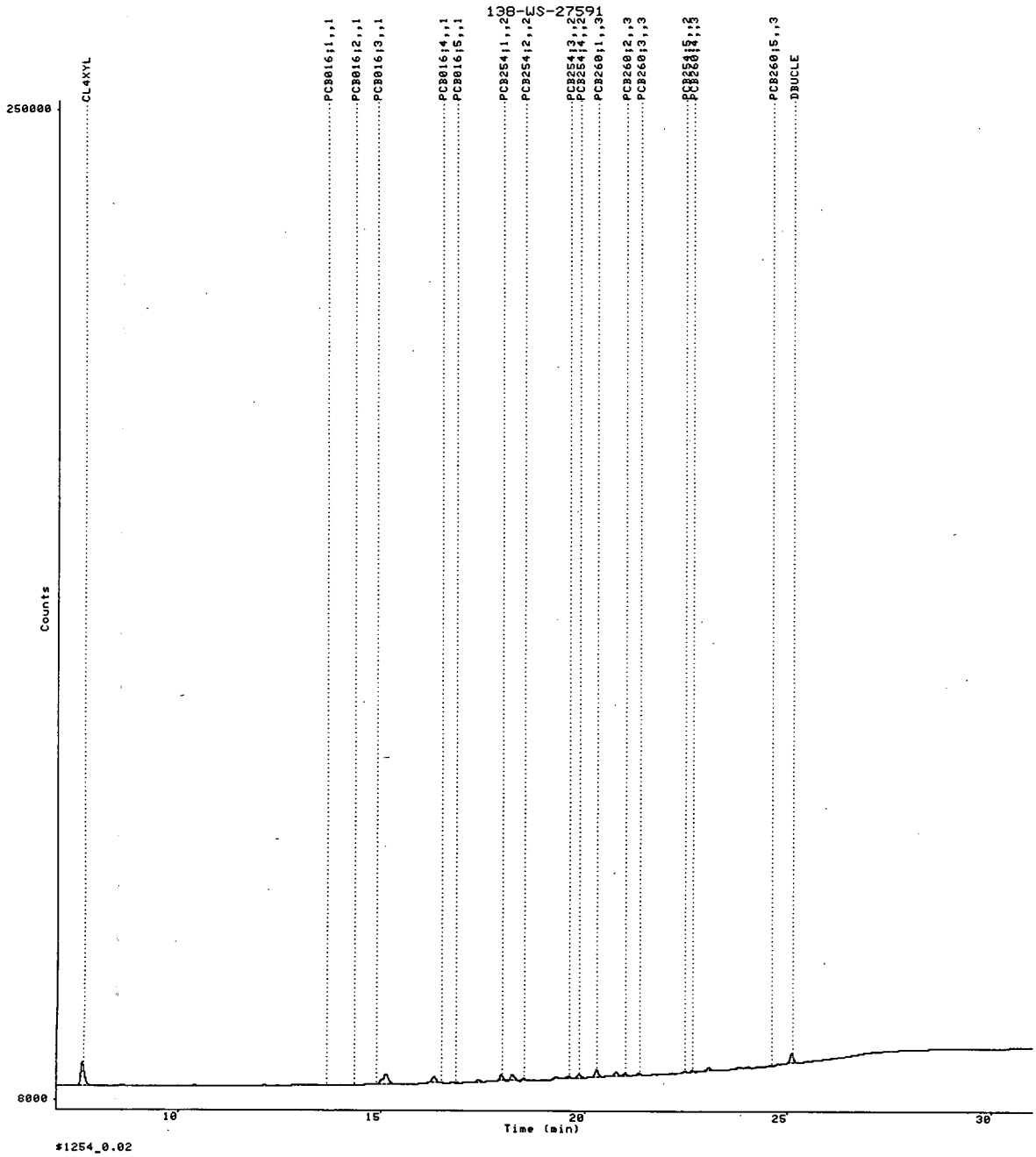
METHOD CALIBRATION CHANGES

Peak Name	Old R.T. (min)	New R.T. (min)	Old CF	New CF	% Rel. St. Dev.	N runs
CL4XYL	7.672	7.672				0
PCB016;5	16.832	16.832				0
PCB254;1	17.960	17.960	3.930E+05	3.930E+05		1
PCB254;2	18.511	18.511	1.420E+05	1.420E+05		1
PCB254;3	19.613	19.613	1.242E+05	1.242E+05		1
PCB254;4	19.865	19.865	2.242E+05	2.242E+05		1
PCB260;1	20.295	20.295				0
PCB260;2	21.012	21.012				0
PCB260;3	21.358	21.358				0
PCB254;5	22.457	22.457	1.095E+05	1.095E+05		1
PCB260;4	22.656	22.656				0
DBUCLE	25.129	25.129				0

ANALYSIS NOTES

1: ERROR in calibration data for Sample or Internal Std. peak. (145)
2: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]5997316061.RAW;1
Report: 1197250746
Acquired: 15-NOV-1997 19:05:38
Time range: 7.00-31.00



0193

Date.....17-NOV-1997 17:43:46.26 User: TAYLORC
Report number.....1197250750
Raw file.....DISK:[TAYLORC]5997316003.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....13

Acq. date.....12-NOV-1997 13:15:42
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....PCB221_2.0
Notes.....138-WS-27569-1

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....57
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
32.58	CL10BP			

EXTERNAL STANDARD ANALYSIS 0194

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group

CL4XYL	7.673	-0.05	0.4643 +	595853	BB	
	8.648			170	BB	
	9.081			7728	BV	
	9.241			14883	VV	
	9.524			39918	VB	
	10.154			28660	BV	
	10.421			79993	VE	
	10.671			14060	EB	
	11.396			340	BB	
	11.786			6975	BV	
	12.154			13729	VE	
	12.631			1043	EB	
	12.946			1664	BV	
	13.048			2673	VV	
	13.224			3431	VV	
	13.370			5410	VB	
PCB016;1	13.682	-0.95	0.03007	12801	BB	1
PCB016;2	14.353	-0.69	0.03327	5995	BB	1
PCB016;3	14.898	-0.33	0.03482	4057	BV	1
	15.129			8078	VB	
	15.757			109	BB	
	16.324			2393	BE	
PCB016;4	16.488	-0.65	6.476E-03	415	EB	1
PCB016;5	16.830	0.13	8.715E-03	808	BB	1
	17.033			253	BV	
	17.165			776	VV	
	17.389			2036	VV	
	17.637			1611	VB	
PCB254;1	17.962	-0.11	8.818E-03	2996	BV	2
	18.222			2967	VB	
PCB254;2	18.517	-0.34	6.944E-03	921	BB	2
	18.762			1117	BB	
	19.303			1020	BV	
PCB254;3	19.612	0.07	6.730E-03	891	VV	2
PCB254;4	19.867	-0.11	6.567E-03	1457	VB	2
	20.138			486	BV	
PCB260;1	20.298	-0.19	0.01696	3154	VE	3
	20.630			278	EV	
	20.775			1444	VV	
PCB260;2	20.998	0.84	4.313E-03	1295	VV	3
PCB260;3	21.341	1.02	4.148E-03-	1213	VB	3
	22.144			281	BB	
PCB254;5	22.465	-0.47	4.494E-03	485	BV	2
PCB260;4	22.665	-0.52	5.456E-03	1078	VV	3
	22.850			248	VV	
	23.053			1076	VB	
	23.452			96	BB	
	23.802			1049	BV	
	24.010			437	VB	
PCB260;5	24.685	-4.80	0.05105	9409	BV	3
DBUCLE	25.105	1.44	0.3025	378778	VB	
	25.711			64	BB	
	27.136			838	BB	
	28.883			67	BB	
	30.249			54	BB	
	31.251			47	BB	
	31.953			105	BB	

0195

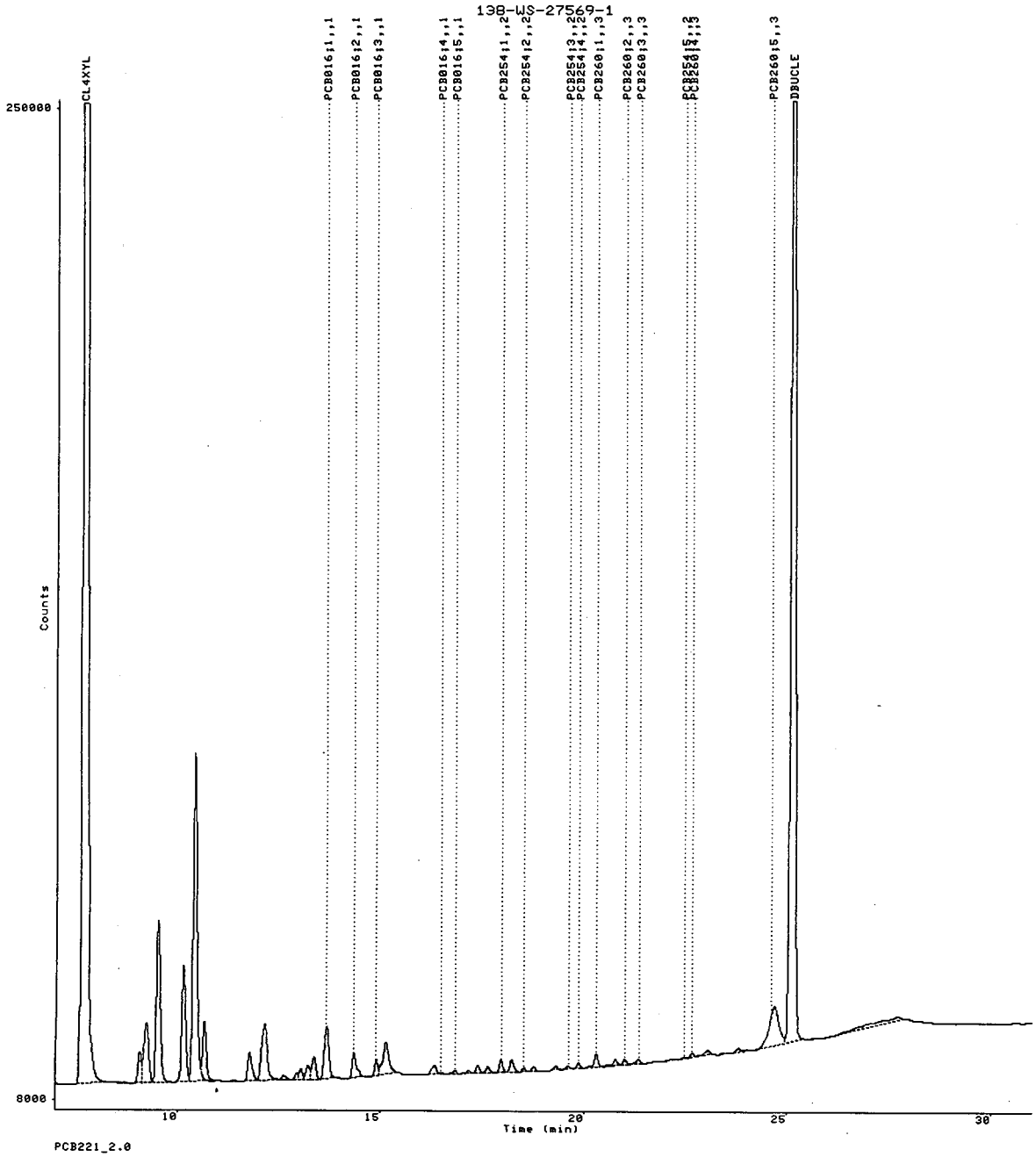
GROUP REPORT

Group	UG/SAMPLE
1	0.1134
2	3.355E-02
3	8.192E-02

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316003.RAW;1
Report: 1197250750
Acquired: 12-NOV-1997 13:15:42
Time range: 7.00-31.00



0197

Date.....17-NOV-1997 17:43:59.69 User: TAYLORC
Report number.....1197250751
Raw file.....DISK:[TAYLORC]5997316004.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....13

Acq. date.....12-NOV-1997 15:57:26
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....PCB232_2.0
Notes.....138-WS-27570-1

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.002 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....66
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
32.58	CL10BP			

EXTERNAL STANDARD ANALYSIS

0198

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group

CL4XYL	7.670	0.14	0.4129 +	531961	BB	
	8.650			1542	BV	
	9.081			3937	VV	
	9.246			11094	VV	
	9.526			20377	VB	
	10.157			16938	BV	
	10.424			54794	VE	
	10.674			6535	EB	
	11.843			4940	BV	
	12.175			53424	VV	
	12.631			4194	VB	
	13.057			16131	BV	
	13.216			12420	VV	
	13.383			24262	VV	
PCB016;1	13.685	-1.15	0.1691	72034	VE	1
	14.080			926	EB	
PCB016;2	14.359	-1.04	0.1709	31092	BE	1
	14.627			4175	EV	
PCB016;3	14.904	-0.74	0.1787	23654	VV	1
	15.028			24161	VV	
	15.135			43091	VE	
	15.471			4735	EB	
	15.893			2538	BB	
	16.340			28865	BV	
PCB016;4	16.484	-0.44	0.2475	17834	VV	1
	16.751			9873	VV	
PCB016;5	16.837	-0.32	0.1606	16891	VV	1
	17.038			7273	VV	
	17.172			13082	VV	
	17.396			24912	VV	
	17.643			29409	VV	
PCB254;1	17.969	-0.53	0.01824	5990	VV	2
	18.235			5876	VV	
PCB254;2	18.520	-0.52	0.02089	2893	VB	2
	18.771			22228	BB	
	19.315			3272	BB	
PCB254;3	19.622	-0.53	0.02143	2833	BV	2
PCB254;4	19.874	-0.55	0.01628	3650	VB	2
	20.146			2849	BV	
PCB260;1	20.307	-0.73	0.03315	6278	VB	3
	20.564			158	BB	
	20.781			2952	BB	
PCB260;2	21.005	0.41	3.565E-03-	1064	BB	3
	21.243			1621	BV	
PCB260;3	21.344	0.84	4.246E-03-	1247	VB	3
	21.548			150	BB	
	21.749			84	BB	
	22.185			402	BB	
PCB254;5	22.471	-0.82	0.01546	2041	BB	2
PCB260;4	22.675	-1.17	4.406E-03	871	BB	3
	22.858			122	BB	
	22.990			436	BB	
	23.191			424	BB	
	23.453			258	BB	
	23.809			766	BV	
	24.023			1363	VB	
PCB260;5	24.614	-0.57	3.706E-03-	472	BV	3
DBUCLE	25.115	0.86	0.2631	324379	VV	
	25.460			1012	VV	
	26.272			38	VV	

26.787	297	VV
26.928	670	VE
27.121	96	EB
27.736	239	BB
28.743	78	BV
28.900	202	VB

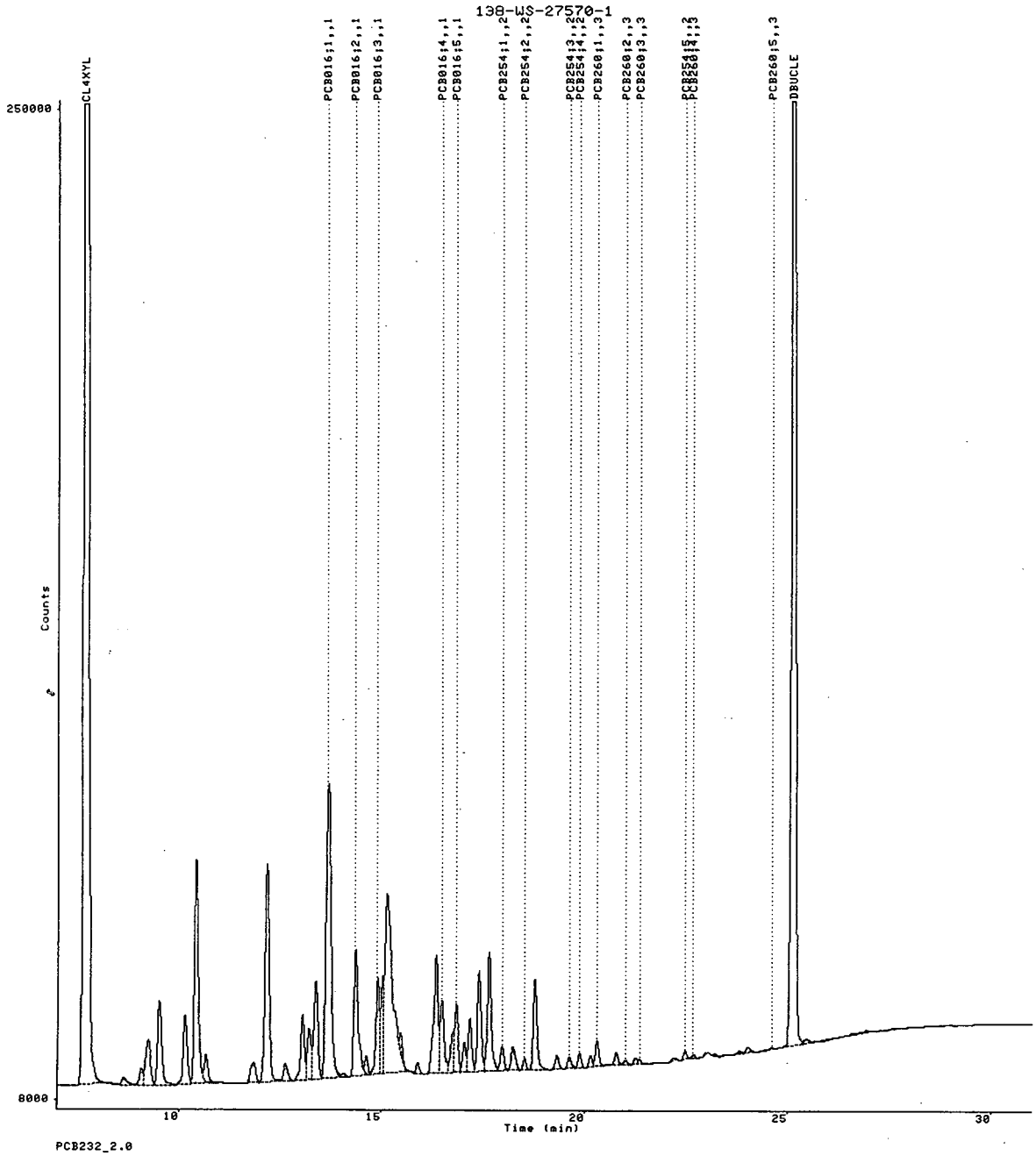
GROUP REPORT

Group	UG/SAMPLE
1	0.9267
2	9.230E-02
3	4.907E-02

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316004.RAW;1
Report: 1197250751
Acquired: 12-NOV-1997 15:57:26
Time range: 7.00-31.00



0201

Date.....17-NOV-1997 17:44:13.71 User: TAYLORC
Report number.....1197250752
Raw file.....DISK:[TAYLORC]5997316005.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....13

Acq. date.....12-NOV-1997 17:52:23
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....PCB242_2.0
Notes.....138-WS-27571-1

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....	34.001 min	Delay time.....	7.000 min
Area reject.....	100 count(s)	No. peaks found.....	82
Noise threshold.....	10.0 microvolts	Area threshold.....	120
Start peak width....	6.00 sec(s)	Area/Pk.Ht.....	H
Min. window.....	8.00 sec	% window.....	0.00
Analysis type.....	EXTERNAL STANDARD	A/D range.....	1.0 volt(s)
Sample rack.....	25		
Sample vial.....	25		
Analysis fit.....	Quadratic	Origin treatment....	Ignore
Report units.....	UG/SAMPLE		
Sample amount.....	1.00000		
Volume injected.....	1.00000	Conversion factor...	1.00000E+00

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
24.60	PCB260;5	3		
32.58	CL10BP			

EXTERNAL STANDARD ANALYSIS 0202

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group

	7.296			478		BB	
CL4XYL	7.668	0.25	0.2678	348853		BE	
	8.248			425		EB	
	8.643			967		BB	
	9.085			1168		BV	
	9.239			5753		VV	
	9.530			5684		VV	
	9.770			7719		VB	
	10.156			7086		BV	
	10.423			29346		VE	
	10.668			1415		EB	
	10.945			311		BB	
	11.613			614		BB	
	11.856			3803		BB	
	12.175			53467		BE	
	12.632			4054		EV	
	13.056			14758		VV	
	13.248			43312		VV	
	13.376			25267		VV	
PCB016;1	13.683	-1.03	0.1759	74953		VB	1
PCB016;2	14.357	-0.89	0.1749	31842		BE	1
	14.628			4222		EV	
PCB016;3	14.901	-0.52	0.1922	25689		VV	1
	15.020			24445		VV	
	15.208			23989		VV	
	15.321			13089		VV	
	15.472			9433		VB	
	15.894			2472		BB	
	16.338			30448		BV	
PCB016;4	16.501	-1.42	0.1706	11959		VV	1
	16.725			13302		VV	
PCB016;5	16.835	-0.21	0.1758	18670		VV	1
	17.037			8545		VV	
	17.170			16486		VV	
	17.393			30791		VV	
	17.640			34984		VV	
PCB254;1	17.968	-0.49	0.02133	6968		VV	2
	18.232			7630		VV	
PCB254;2	18.516	-0.31	0.03063	4254		VV	2
	18.767			30616		VB	
	19.308			5443		BV	
PCB254;3	19.620	-0.41	0.03296	4330		VV	2
PCB254;4	19.871	-0.36	0.02567	5747		VV	2
	20.142			5157		VV	
PCB260;1	20.306	-0.67	0.04920	9394		VE	3
	20.554			916		EV	
	20.775			6484		VV	
PCB260;2	20.947	3.92	5.514E-03	1666		VV	3
PCB260;3	21.241	7.04	8.832E-03	2844		VE	3
	21.533			520		EB	
	21.984			422		BV	
	22.144			836		VB	
PCB254;5	22.465	-0.50	0.03738	5090		BE	2
PCB260;4	22.670	-0.83	5.334E-03	1054		EV	3
	22.977			10726		VV	
	23.090			3969		VB	
	23.640			705		BV	
	23.803			3677		VV	
	24.020			3163		VB	
	24.398			1016		BB	

	24.757			186	BB
DBUCLE	25.113	0.95	0.1743	207057	BE
	25.460			11195	EV
	25.846			1611	VB
	26.567			824	BV
	26.764			222	VB
	26.944			166	BB
	27.168			421	BB
	27.344			168	BB
	27.502			209	BB
	27.965			1766	BV
	28.083			1474	VE
	28.203			106	EB
	28.323			537	BV
	28.503			1646	VB
	28.929			1765	BB
	29.367			778	BV
	29.622			908	VV
	29.846			667	VB
	30.616			147	BB
	30.943			198	BB
	31.999			88	BB

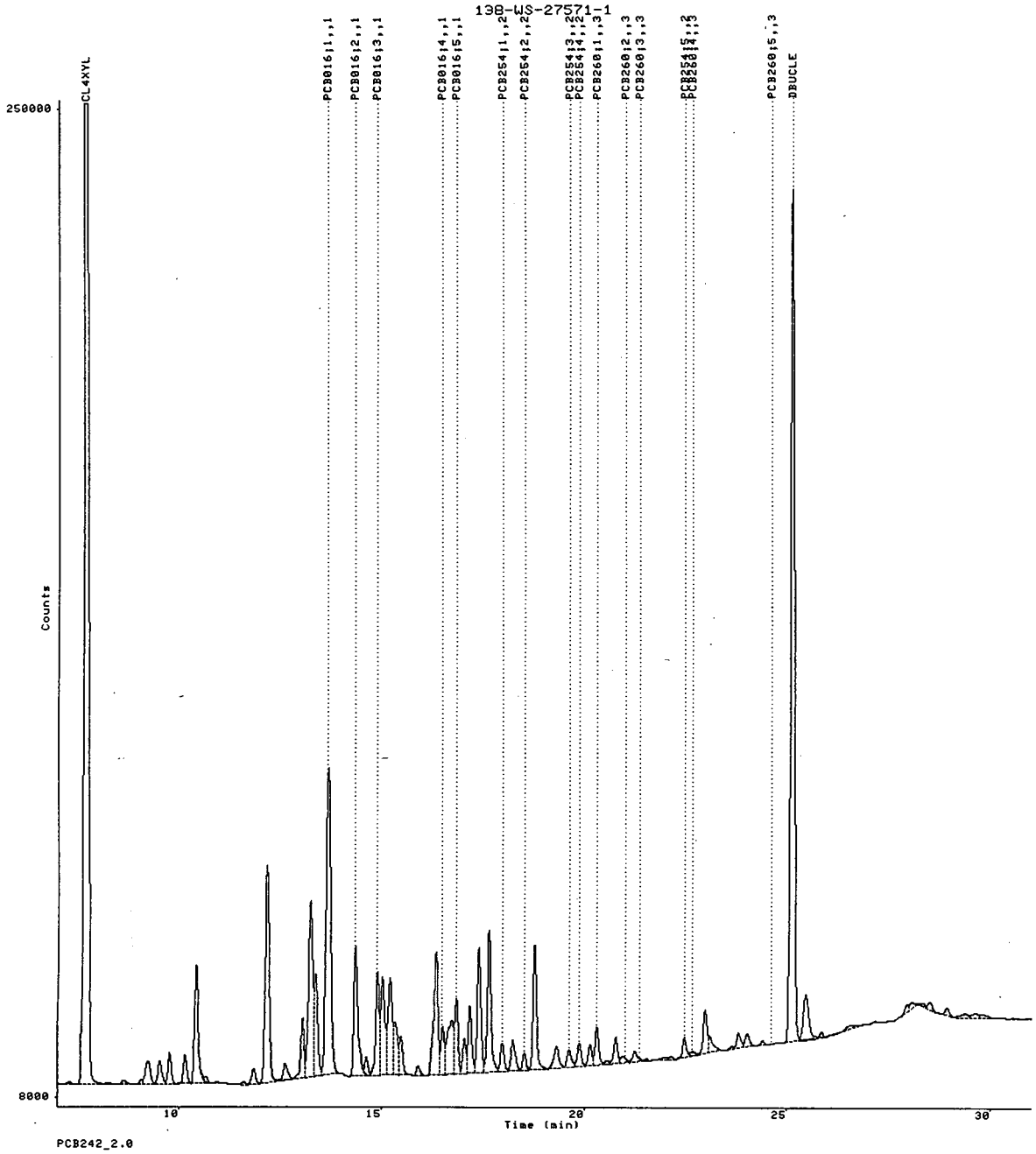
GROUP REPORT

Group	UG/SAMPLE
1	0.8895
2	0.1480
3	6.888E-02

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]5997316005.RAW;1
Report: 1197250752
Acquired: 12-NOV-1997 17:52:23
Time range: 7.00-31.00



0205

Date.....17-NOV-1997 17:44:26.55 User: TAYLORC
Report number.....1197250753
Raw file.....DISK:[TAYLORC]5997316006.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....14

Acq. date.....12-NOV-1997 18:29:45
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....PCB248_2.0
Notes.....138-WS-27572-1

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....	34.001 min	Delay time.....	7.000 min
Area reject.....	100 count(s)	No. peaks found.....	67
Noise threshold.....	10.0 microvolts	Area threshold.....	120
Start peak width....	6.00 sec(s)	Area/Pk.Ht.....	H
Min. window.....	8.00 sec	% window.....	0.00
Analysis type.....	EXTERNAL STANDARD	A/D range.....	1.0 volt(s)
Sample rack.....	25		
Sample vial.....	25		
Analysis fit.....	Quadratic	Origin treatment....	Ignore
Report units.....	UG/SAMPLE		
Sample amount.....	1.00000		
Volume injected.....	1.00000	Conversion factor...	1.00000E+00

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
32.58	CL10BP			

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

0206

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group

CL4XYL	7.651	1.27	0.2379	310571	BB	
	8.628			179	BB	
	9.249			3309	BB	
	10.037			241	BB	
	10.408			2368	BB	
	11.844			1253	BB	
	12.158			28971	BE	
	12.611			1095	EB	
	13.041			9773	BV	
	13.188			3600	VV	
	13.371			8781	VV	
PCB016;1	13.673	-0.43	0.1536	65422	VV	1
PCB016;2	14.346	-0.24	0.1050	18971	VV	1
	14.614			7280	VV	
PCB016;3	14.894	-0.14	0.1207	15317	VV	1
	15.008			40127	VV	
	15.201			35405	VV	
	15.306			25534	VV	
	15.459			14861	VV	
	15.875			4015	VV	
	16.328			46716	VV	
PCB016;4	16.487	-0.58	0.2609	18886	VV	1
PCB016;5	16.826	0.36	0.2988	34110	VV	1
	17.027			11414	VV	
	17.164			31862	VV	
	17.387			50844	VV	
	17.634			58845	VV	
PCB254;1	17.957	0.16	0.04978	15796	VV	2
	18.227			15089	VV	
PCB254;2	18.510	0.09	0.08308	11374	VV	2
	18.764			45266	VV	
	19.304			8523	VV	
PCB254;3	19.612	0.03	0.06310	8140	VV	2
PCB254;4	19.865	-0.01	0.04798	10653	VV	2
	20.138			9310	VV	
PCB260;1	20.300	-0.29	0.1075	20873	VE	3
	20.548			1660	EV	
	20.777			13532	VE	
PCB260;2	20.991	1.24	8.599E-03	2619	EV	3
	21.235			5406	VV	
PCB260;3	21.330	1.66	0.01084	3545	VE	3
	21.540			817	EV	
	21.727			375	VB	
	22.134			792	BB	
PCB254;5	22.470	-0.80	0.06986	9453	BV	2
PCB260;4	22.653	0.21	0.01301	2569	VV	3
	22.840			1213	VV	
	23.058			3111	VV	
	23.177			1500	VV	
	23.441			661	VV	
	23.615			218	VV	
	23.814			532	VV	
	23.995			438	VB	
PCB260;5	24.603	0.12	5.472E-03	800	BB	3
	24.766			536	BV	
	24.920			649	VV	
DBUCLE	25.103	1.54	0.1552	182804	VB	
	25.708			61	BB	
	26.627			995	BV	
	26.770			887	VV	

26.922	2420	VE
27.380	108	EB
27.725	148	BB
28.883	1109	BB
29.884	829	BB
30.652	727	BB

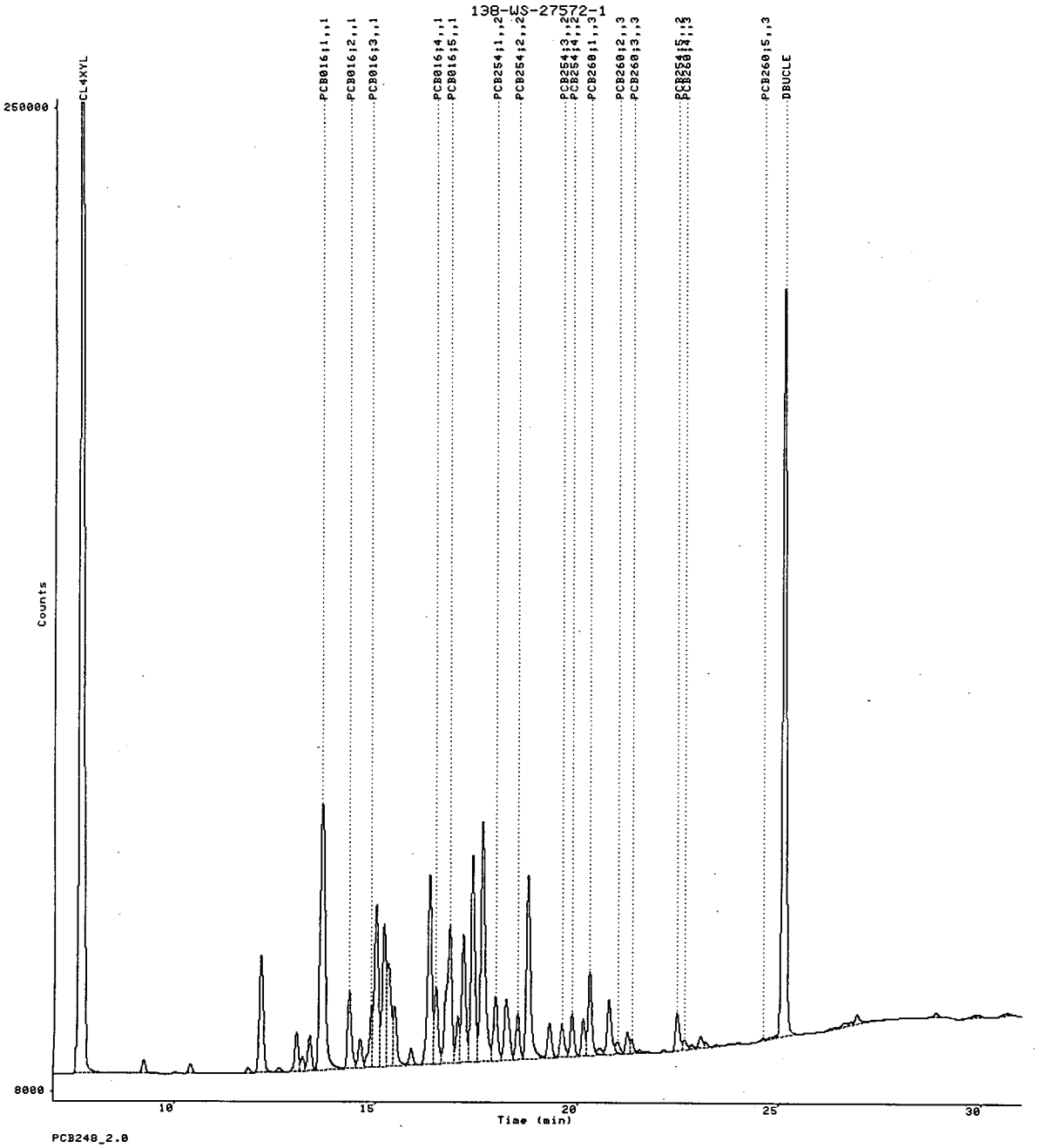
GROUP REPORT

Group	UG/SAMPLE
1	0.9390
2	0.3138
3	0.1454

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)

Data file: DISK:[TAYLORC]5997316006.RAW;1
Report: 1197250753
Acquired: 12-NOV-1997 18:29:45
Time range: 7.00-31.00



0209

Date.....17-NOV-1997 17:44:39.21 User: TAYLORC
Report number.....1197250754
Raw file.....DISK:[TAYLORC]5997316007.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....14

Acq. date.....12-NOV-1997 19:07:10
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....PCB254_2.0
Notes.....138-WS-27591-1

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....57
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
16.48	PCB016;4	1		
32.58	CL10BP			

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

0210

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group

CL4XYL	7.650	1.33	0.2657	346188		BB	
	9.248			3774		BB	
	10.036			379		BB	
	10.406			610		BB	
	12.155			1184		BB	
	12.939			500		BB	
	13.226			257		BV	
	13.363			396		VB	
PCB016;1	13.650	0.96	4.718E-03	2060		BB	1
PCB016;2	14.343	-0.07	2.793E-03-	541		BV	1
	14.613			1070		VB	
PCB016;3	15.007	-6.89	0.3051	43915		BV	1
	15.193			14241		VE	
	15.454			638		EB	
	15.873			178		BB	
	16.327			26494		BV	
PCB016;5	16.824	0.47	0.08089	8082		VE	1
	17.011			642		EV	
	17.162			8132		VV	
	17.386			34802		VV	
	17.631			12547		VV	
PCB254;1	17.956	0.26	0.2548	71219		VV	2
	18.218			72590		VV	
PCB254;2	18.508	0.20	0.2568	32384		VE	2
	18.758			7720		EB	
	19.299			28342		BV	
PCB254;3	19.609	0.25	0.2523	28562		VV	2
PCB254;4	19.863	0.10	0.2558	50890		VV	2
	20.131			17484		VV	
PCB260;1	20.298	-0.15	0.4995 +	104503		VE	3
	20.574			12516		EV	
	20.774			63117		VV	
PCB260;2	20.995	1.02	0.1161	35889		VV	3
PCB260;3	21.338	1.21	0.1101	38759		VE	3
	21.530			2395		EV	
	21.676			4835		EV	
	21.889			1462		VB	
	22.131			11281		BV	
PCB254;5	22.467	-0.59	0.2416	29464		VV	2
PCB260;4	22.650	0.39	0.1404	28280		VV	3
	22.838			18085		VV	
	23.057			54959		VE	
	23.460			3890		EV	
	23.600			5169		EV	
	23.977			593		VB	
PCB260;5	24.599	0.36	0.01700	2951		BV	3
	24.754			15460		VV	
	24.856			10042		VV	
DBUCLE	25.101	1.68	0.1757	208833		VE	
	25.704			140		EB	
	26.589			777		BV	
	26.919			4883		VE	
	27.280			267		EB	
	27.712			155		BB	
	28.885			363		BB	
	29.615			55		BB	
	30.915			214		BB	

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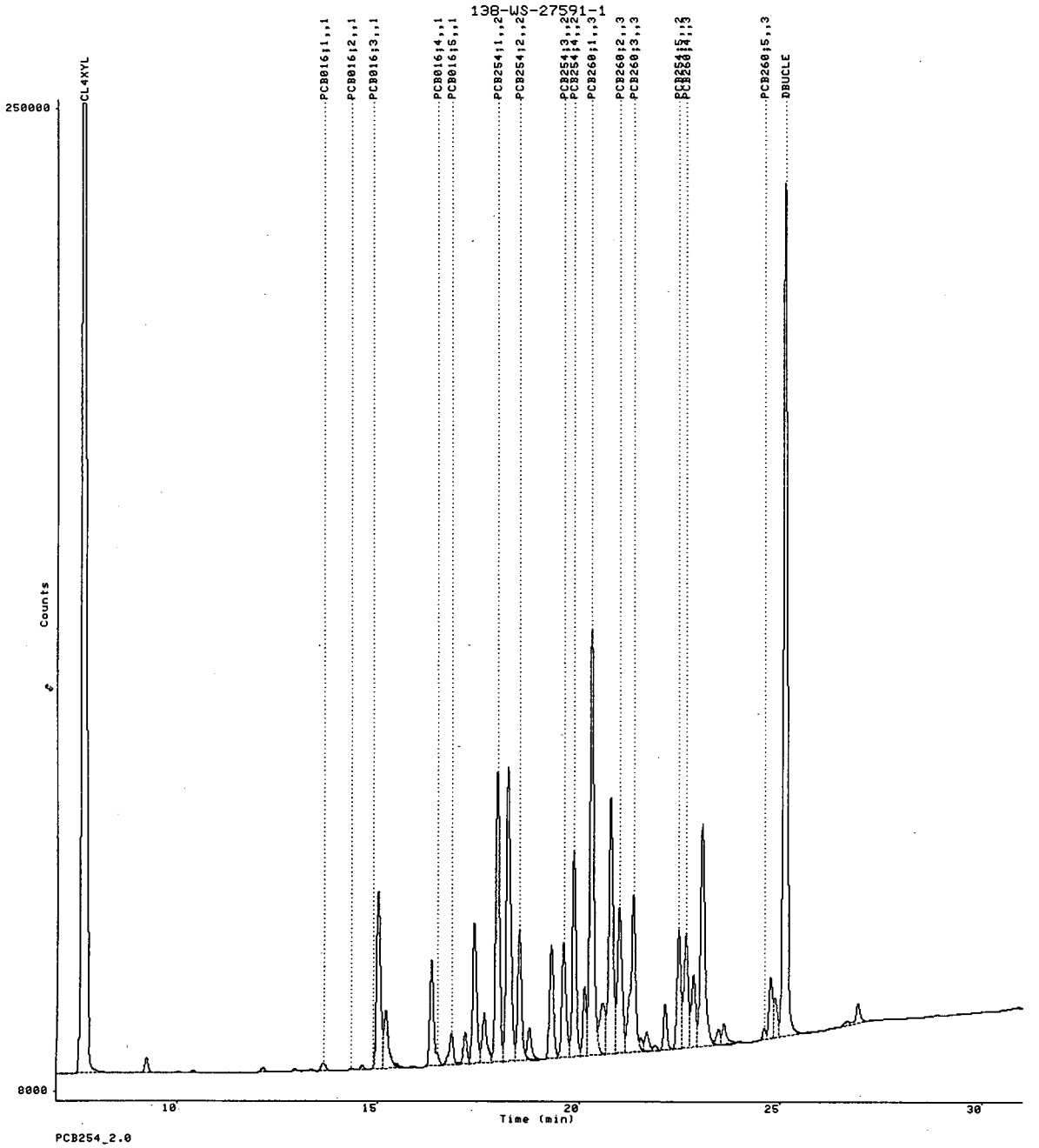
GROUP REPORT

Group	UG/SAMPLE
1	0.3935
2	1.261
3	0.8831

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316007.RAW;1
Report: 1197250754
Acquired: 12-NOV-1997 19:07:10
Time range: 7.00-31.00



0213

Date.....17-NOV-1997 17:44:52.04 User: TAYLORC
Report number.....1197250755
Raw file.....DISK:[TAYLORC]5997316013.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....14

Acq. date.....12-NOV-1997 22:50:53
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....ICV_1660_1.0
Notes.....138-WS-27589-1

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....69
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	7.667	0.31	0.1902	249192		BB	
	8.640			123		BB	
	9.073			909		BV	
	9.233			4978		VV	
	9.521			4952		VB	
	10.147			6554		BV	
	10.414			27758		VE	
	10.654			1297		EB	

0214

	11.845			4837	BV	
	12.164			59083	VV	
	12.622			4924	VV	
	13.045			17868	VV	
	13.195			12250	VV	
	13.370			27185	VV	
PCB016;1	13.675	-0.54	0.2078	88630	VV	1
PCB016;2	14.348	-0.39	0.2075	37901	VE	1
	14.615			5800	EV	
PCB016;3	14.891	0.05	0.2289	31364	VV	1
	15.011			31863	VV	
	15.115			38369	VV	
	15.307			18279	VV	
	15.460			13007	VB	
	15.879			3394	BB	
	16.327			35262	BV	
PCB016;4	16.487	-0.58	0.2038	14461	VV	1
PCB016;5	16.824	0.49	0.1850	19755	VV	1
	17.028			8024	VV	
	17.167			3864	VV	
	17.384			5363	VV	
	17.632			9516	VV	
PCB254;1	17.959	0.09	0.09224	28456	VV	2
	18.216			28720	VE	
PCB254;2	18.515	-0.23	3.891E-03-	486	EV	2
	18.645			1807	EV	
	18.750			1188	EB	
	19.296			1887	BV	
PCB254;3	19.676	-3.79	9.977E-03	1323	VV	2
PCB254;4	19.868	-0.19	0.02652	5936	VB	2
PCB260;1	20.275	1.19	0.2154	42766	BV	3
	20.617			17787	VV	
PCB260;2	20.996	0.94	0.2109	65380	VV	3
PCB260;3	21.340	1.05	0.2110	75825	VE	3
	21.674			4060	EV	
	21.914			975	EV	
	22.132			29948	VE	
PCB254;5	22.456	0.03	2.348E-03-	178	EB	2
PCB260;4	22.665	-0.53	0.2085	42430	BV	3
	22.840			29484	VV	
	23.053			57768	VV	
	23.180			52482	VV	
	23.436			25205	VE	
	23.799			1087	EV	
	23.970			7692	VB	
PCB260;5	24.601	0.27	0.1976	38991	BV	3
	24.763			11847	VV	
	24.923			25951	VV	
DBUCLE	25.113	0.98	0.1947	233291	VB	
	26.220			2782	BB	
	26.591			19348	BV	
	26.763			13434	VV	
	26.917			42984	VE	
	27.270			1275	EB	
	27.719			386	BB	
	27.946			1174	BB	
	28.467			485	BB	
	28.743			6223	BV	
	28.880			14771	VB	
	30.675			3659	BB	

CL10BP 32.539 2.57 70191 BB

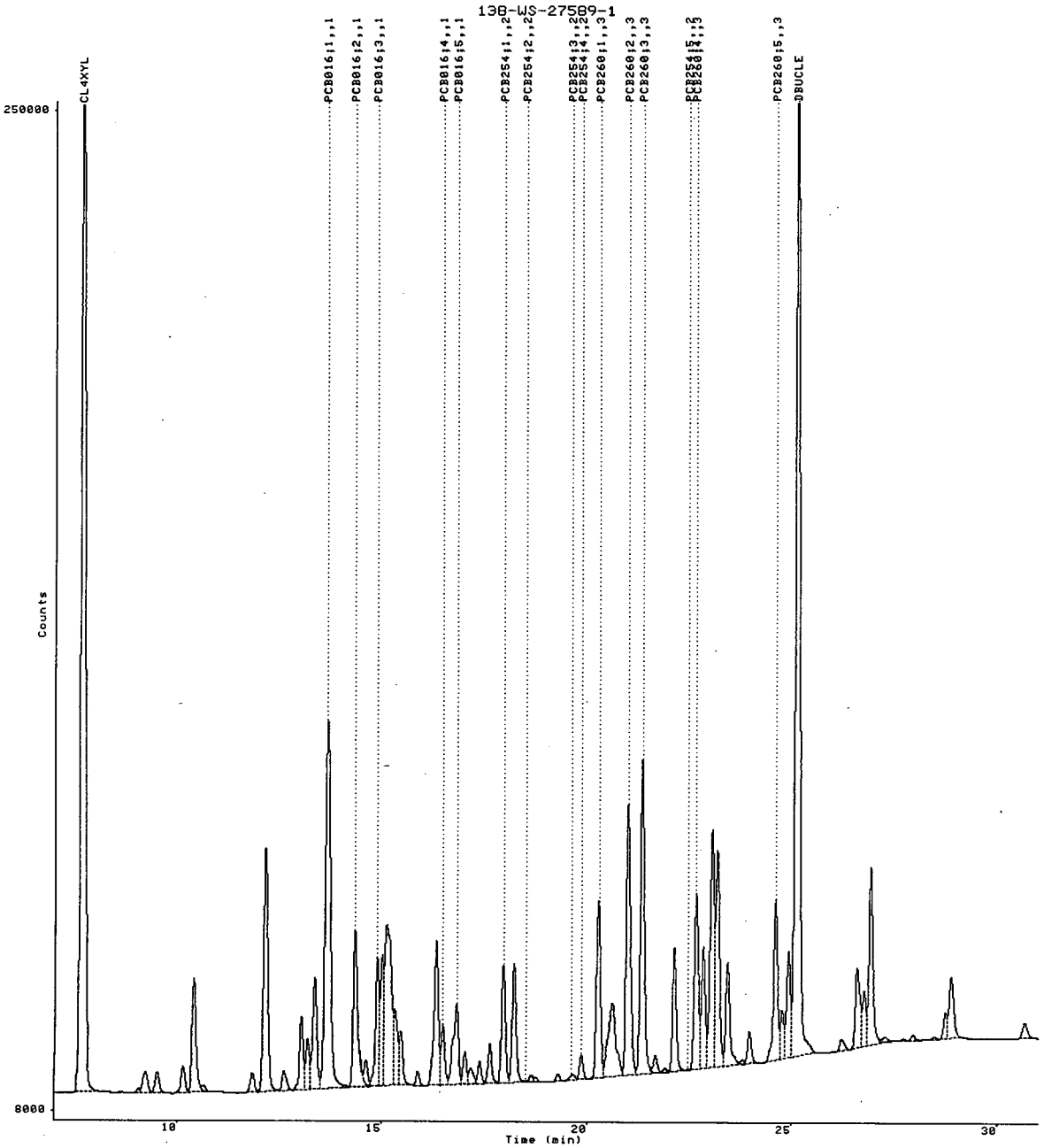
GROUP REPORT

Group	UG/SAMPLE
1	1.033
2	0.1350
3	1.043

ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316013.RAW;1
Report: 1197250755
Acquired: 12-NOV-1997 22:50:53
Time range: 7.00-31.00



ICV_1660_1.0

0217

Date.....17-NOV-1997 17:45:04.61 User: TAYLORC
Report number.....1197250756
Raw file.....DISK:[TAYLORC]5997316023.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....7

Acq. date.....13-NOV-1997 05:04:51
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....CCV1660_1.0
Notes.....138-WS-27590-2

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....70
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	7.653	1.12	0.1922	251790		BB	
	9.065			922		BV	
	9.225			4563		VV	
	9.514			4787		VB	
	10.141			6476		BV	
	10.409			26961		VE	
	10.657			1317		EB	
	11.548			191		BB	

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	11.841			4241	BV	
	12.160			52763	VV	
	12.618			4119	VV	
	13.043			15914	VV	
	13.194			11300	VV	
	13.368			24179	VV	
PCB016;1	13.674	-0.45	0.1878	80062	VE	1
	14.070			1592	EV	
PCB016;2	14.346	-0.25	0.1878	34228	VE	1
	14.614			4892	EV	
PCB016;3	14.892	0.01	0.1938	25926	VV	1
	15.120			70267	VE	
	15.459			7778	EB	
	15.882			2901	BB	
	16.327			32411	BV	
PCB016;4	16.487	-0.62	0.1835	12925	VV	1
	16.739			11127	VV	
PCB016;5	16.826	0.35	0.1863	19911	VV	1
	17.027			8398	VV	
	17.160			6955	VV	
	17.385			11048	VV	
	17.633			14538	VV	
PCB254;1	17.960	-0.03	0.08634	26736	VV	2
	18.218			25374	VE	
PCB254;2	18.508	0.15	4.795E-03	615	EB	2
	18.759			1500	BB	
	19.300			2336	BB	
PCB254;3	19.610	0.20	6.843E-03	906	BV	2
PCB254;4	19.865	0.00	0.01933	4333	VB	2
PCB260;1	20.278	1.02	0.1914	37830	BV	3
	20.619			15624	VV	
PCB260;2	20.999	0.75	0.1873	58021	VV	3
PCB260;3	21.343	0.90	0.1938	69402	VE	3
	21.677			3640	EV	
	21.879			802	EB	
	22.135			27401	BE	
PCB254;5	22.457	-0.03	3.871E-03-	396	EV	2
PCB260;4	22.667	-0.69	0.1921	38994	VV	3
	22.843			28183	VV	
	23.056			55433	VV	
	23.183			49791	VV	
	23.439			24534	VE	
	23.804			987	EV	
	23.973			7268	VB	
PCB260;5	24.605	0.02	0.1943	38281	BV	3
	24.768			12350	VV	
	24.926			27531	VV	
DBUCLE	25.116	0.81	0.2048	246512	VB	
	26.002			53	BB	
	26.225			2690	BB	
	26.606			24190	BV	
	26.774			36701	VV	
	26.920			68372	VE	
	27.251			2501	EB	
	27.709			415	BB	
	27.947			1294	BB	
	28.484			549	BV	
	28.747			7460	VV	
	28.884			16945	VB	
	30.680			3679	BB	

	31.940			313	BB
CL10BP	32.539	2.60	0.2021	414	BB

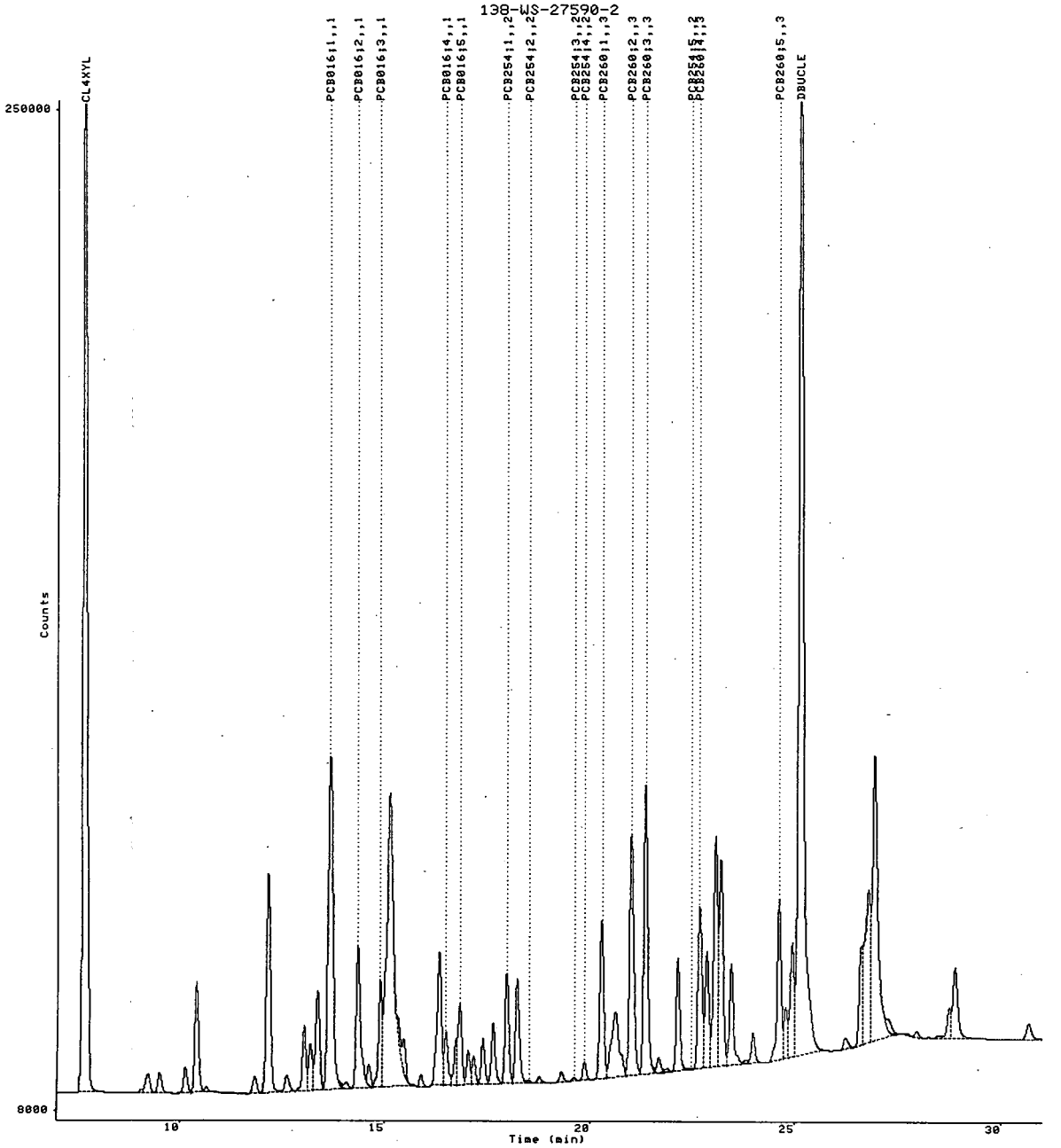
GROUP REPORT

Group	UG/SAMPLE
1	0.9393
2	0.1212
3	0.9588

ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Warning, Insufficient data for requested calculation fit. (153)
3: WARNING: Peak windows overlap. Check peak identification. (245)
4: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316023.RAW;1
Report: 1197250756
Acquired: 13-NOV-1997 05:04:51
Time range: 7.00-31.00



CCV1660_1.0

0221

Date.....17-NOV-1997 17:47:29.02 User: TAYLORC
Report number.....1197250767
Raw file.....DISK:[TAYLORC]5997316034.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 12:44:39
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....CCV1660_1.0
Notes.....138-WS-27590-2

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....68
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	7.645	1.62	0.2317	302612		BB	
	9.057			1047		BV	
	9.218			5172		VV	
	9.506			5498		VB	
	10.132			7346		BV	
	10.400			31432		VE	
	10.648			1472		EB	
	11.832			4649		BV	

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	12.152			59865	VE	
	12.610			4687	EV	
	13.034			18165	VV	
	13.185			12722	VV	
	13.359			27500	VV	
PCB016;1	13.665	0.06	0.2187	93320	VE	1
	14.065			2299	EV	
PCB016;2	14.337	0.30	0.2184	39933	VE	1
	14.606			5711	EV	
PCB016;3	14.883	0.53	0.2258	30875	VV	1
	15.113			87448	VV	
	15.450			13063	VV	
	15.721			609	VV	
	15.872			3355	VB	
	16.317			36197	BV	
PCB016;4	16.479	-0.11	0.2055	14586	VV	1
PCB016;5	16.817	0.93	0.2125	23075	VV	1
	17.019			9313	VV	
	17.151			7840	VV	
	17.376			12622	VV	
	17.624			16563	VV	
PCB254;1	17.952	0.48	0.09577	29482	VV	2
	18.210			28613	VE	
PCB254;2	18.510	0.07	4.073E-03-	512	EV	2
	18.749			1742	VB	
	19.290			2577	BB	
PCB254;3	19.599	0.83	7.195E-03	953	BB	2
PCB254;4	19.856	0.54	0.02182	4890	BB	2
PCB260;1	20.270	1.49	0.2101	41671	BB	3
	20.611			12408	BB	
PCB260;2	20.991	1.28	0.2123	65831	BV	3
PCB260;3	21.335	1.41	0.2230	80314	VE	3
	21.669			3624	EV	
	21.877			706	EB	
	22.126			32186	BE	
PCB254;5	22.450	0.40	3.557E-03-	351	EV	2
PCB260;4	22.659	-0.18	0.2213	45141	VV	3
	22.835			33719	VV	
	23.047			67210	VV	
	23.176			59013	VV	
	23.431			30004	VE	
	23.796			1307	EV	
	23.965			8905	VB	
PCB260;5	24.596	0.53	0.2261	45067	BV	3
	24.759			13025	VV	
	24.916			29011	VV	
DBUCLE	25.107	1.31	0.2376	289946	VB	
	26.213			3302	BB	
	26.588			26091	BV	
	26.759			19260	VV	
	26.911			59732	VE	
	27.254			2175	EB	
	27.719			704	BV	
	27.940			1837	VB	
	28.460			710	BV	
	28.738			8957	VV	
	28.873			21450	VB	
	30.667			4861	BB	
	32.189			83	BB	
CL10BP	32.521	3.69	0.1937 -	394	BB	

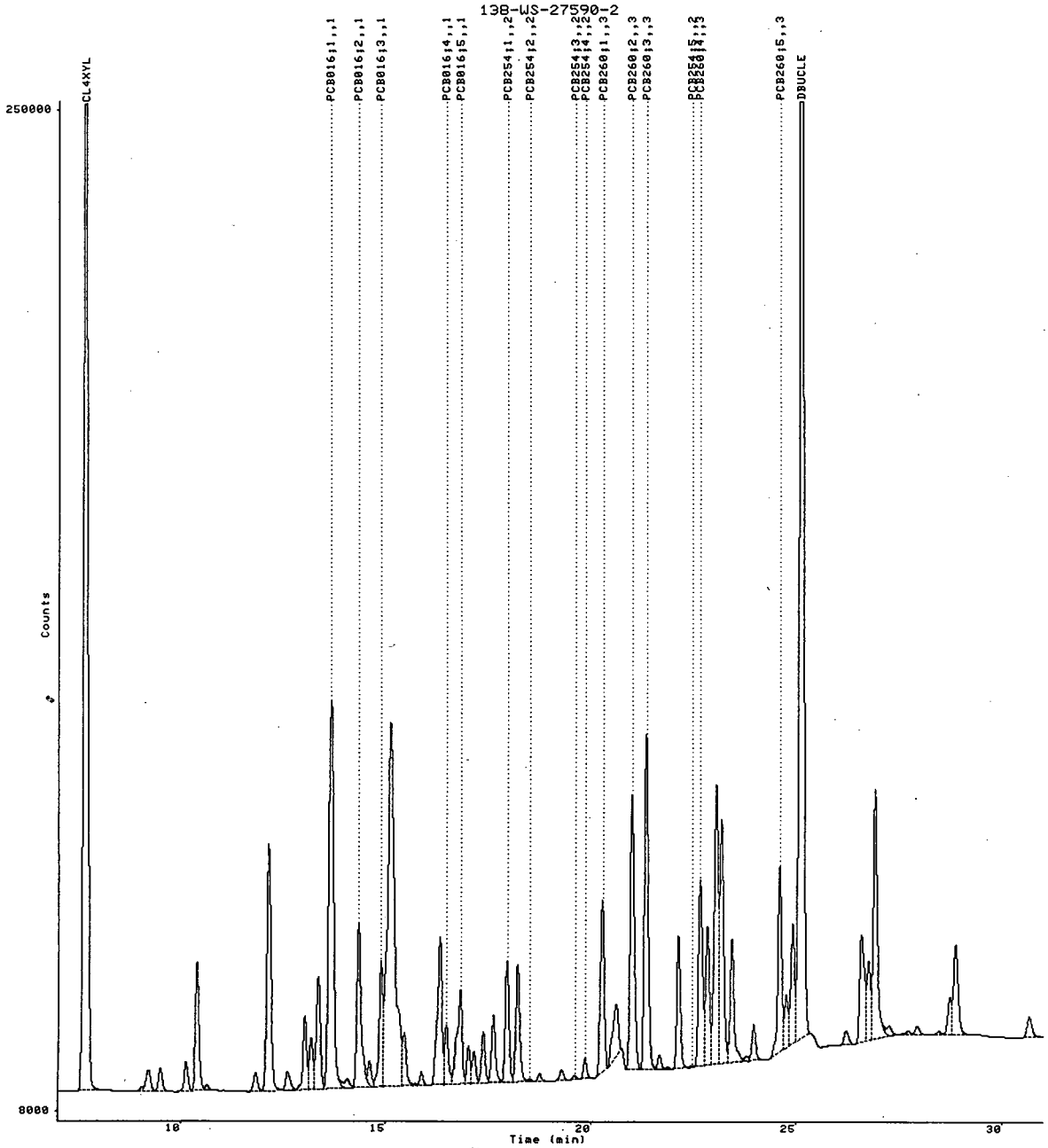
GROUP REPORT

Group	UG/SAMPLE
1	1.081
2	0.1324
3	1.093

ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Warning, Insufficient data for requested calculation fit. (153)
3: WARNING: Peak windows overlap. Check peak identification. (245)
4: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316034.RAW;1
Report: 1197250767
Acquired: 13-NOV-1997 12:44:39
Time range: 7.00-31.00



CCV1660_1.0

0225

Date.....17-NOV-1997 17:49:56.38 User: TAYLORC
Report number.....1197250778
Raw file.....DISK:[TAYLORC]5997316045.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 19:35:42
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....CCV1660_1.0
Notes.....138-WS-27590-2

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....68
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
32.58	CL10BP			

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel) 0226

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group

CL4XYL	7.654	1.08	0.1735	227559	BB	
	9.063			789	BV	
	9.223			4106	VV	
	9.512			4335	VB	
	10.138			5749	BV	
	10.405			25370	VE	
	10.652			1124	EB	
	11.835			3825	BV	
	12.154			50566	VE	
	12.613			3877	EV	
	13.036			15187	VV	
	13.186			10608	VV	
	13.360			23080	VV	
PCB016;1	13.667	-0.05	0.1855	79046	VE	1
	14.065			1932	EV	
PCB016;2	14.338	0.22	0.1840	33531	VE	1
	14.607			4706	EV	
PCB016;3	14.884	0.47	0.1907	25463	VV	1
	15.112			77826	VV	
	15.451			10703	VV	
	15.722			426	VV	
	15.871			2752	VB	
	16.316			30499	BV	
PCB016;4	16.478	-0.07	0.1727	12115	VV	1
PCB016;5	16.815	1.01	0.1794	19092	VV	1
	17.018			7772	VV	
	17.151			6490	VV	
	17.376			10258	VV	
	17.622			13464	VV	
PCB254;1	17.951	0.55	0.07835	24383	VV	2
	18.209			23126	VE	
PCB254;2	18.498	0.79	3.884E-03-	485	EV	2
	18.748			1396	VB	
	19.288			2237	BB	
PCB254;3	19.597	0.96	5.703E-03	754	BB	2
PCB254;4	19.854	0.68	0.01721	3858	BB	2
PCB260;1	20.268	1.62	0.1676	32957	BB	3
	20.612			9985	BB	
PCB260;2	20.989	1.36	0.1648	51037	BB	3
PCB260;3	21.333	1.51	0.1718	61289	BE	3
	21.667			2823	EV	
	21.880			414	EB	
	22.124			24290	BE	
PCB254;5	22.450	0.43	3.620E-03-	360	EV	2
PCB260;4	22.657	-0.06	0.1716	34717	VV	3
	22.833			25366	VV	
	23.045			50436	VV	
	23.174			43982	VV	
	23.429			22157	VE	
	23.806			1205	EV	
	23.963			6813	VB	
PCB260;5	24.593	0.71	0.1714	33479	BV	3
	24.757			9582	VV	
	24.914			21406	VV	
DBUCLE	25.105	1.45	0.1785	212377	VB	
	25.996			2433	BV	
	26.207			2880	VB	
	26.591			20850	BV	
	26.760			19795	VV	
	26.911			51653	VE	

27.721	808	EV
27.937	1522	EB
28.453	536	BB
28.732	5925	BV
28.869	14284	VB
30.668	3189	BB
31.473	463	BB
32.215	374	BB

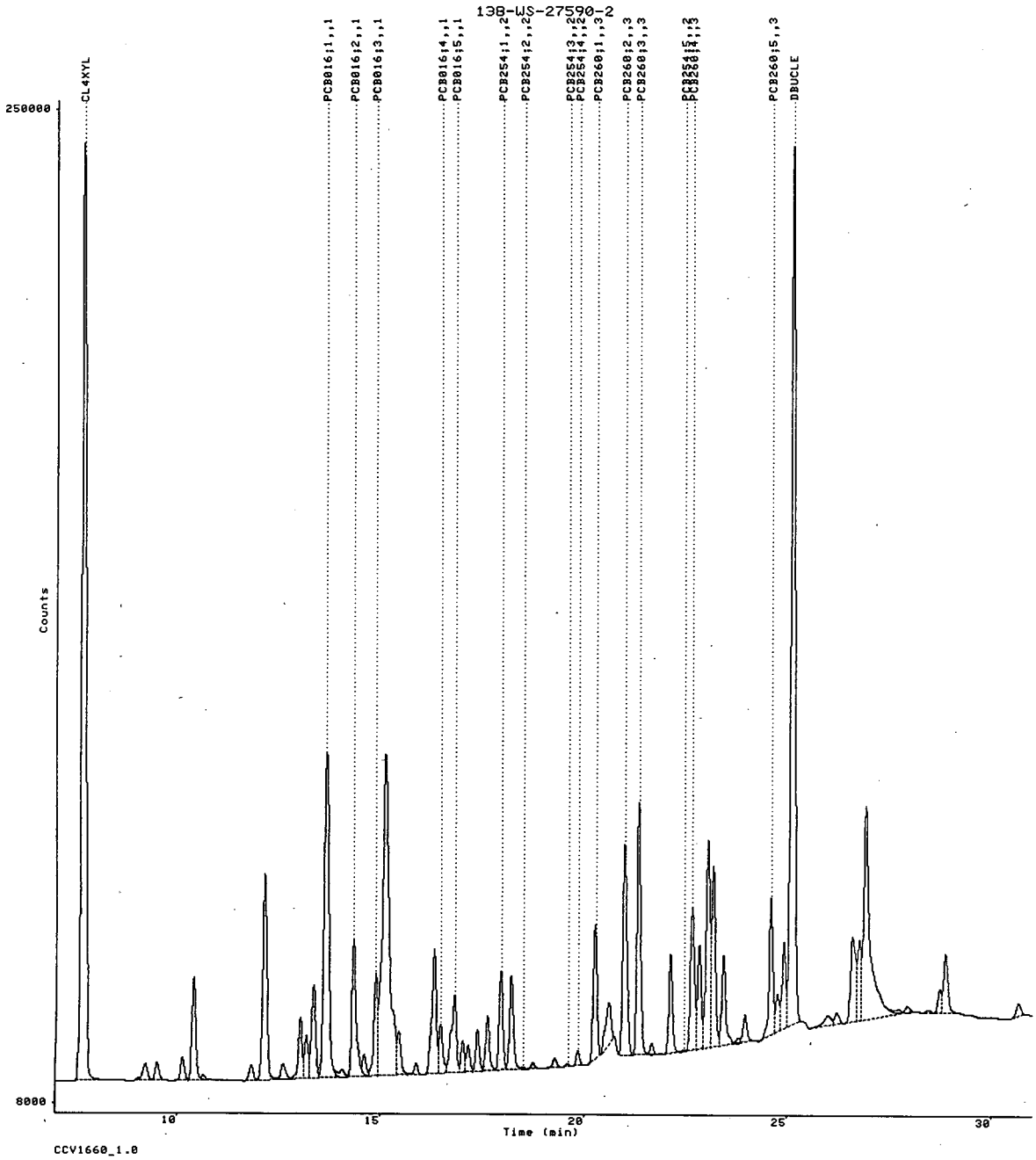
GROUP REPORT

Group	UG/SAMPLE
1	0.9124
2	0.1088
3	0.8472

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316045.RAW;1
Report: 1197250778
Acquired: 13-NOV-1997 19:35:42
Time range: 7.00-31.00



0229

Date.....17-NOV-1997 17:51:45.85 User: TAYLORC
Report number.....1197250787
Raw file.....DISK:[TAYLORC]5997316053.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....14-NOV-1997 00:34:33
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....CCV1660_1.0
Notes.....138-WS-27590-2

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....72
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	7.649	1.37	0.1982	259503		BB	
	9.060			859		BV	
	9.221			4369		VV	
	9.510			4734		VB	
	10.135			6276		BV	
	10.403			27597		VE	
	10.650			1281		EV	
	10.826			230		EB	

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	11.835			4049	BV	
	12.154			53072	VE	
	12.612			4161	EV	
	13.036			16008	VV	
	13.188			11395	VV	
	13.360			24233	VV	
PCB016;1	13.667	-0.09	0.1945	82908	VE	1
	14.066			2065	EV	
PCB016;2	14.340	0.12	0.1924	35080	VE	1
	14.608			4910	EV	
PCB016;3	14.885	0.43	0.2021	27192	VV	1
	15.113			76307	VV	
	15.453			11066	VV	
	15.733			456	VV	
	15.872			2918	VB	
	16.319			31648	BV	
PCB016;4	16.480	-0.17	0.1793	12610	VV	1
PCB016;5	16.818	0.85	0.1882	20137	VV	1
	17.020			8142	VV	
	17.152			6940	VV	
	17.378			11187	VV	
	17.625			14881	VV	
PCB254;1	17.953	0.44	0.08322	25819	VV	2
	18.211			24863	VB	
PCB254;2	18.561	-3.02	2.728E-03-	320	BV	2
	18.750			1645	VB	
	19.290			2228	BB	
PCB254;3	19.602	0.65	6.423E-03	850	BB	2
PCB254;4	19.857	0.50	0.01862	4173	BB	2
PCB260;1	20.270	1.49	0.1834	36177	BV	3
	20.613			14417	VV	
	20.747			5562	VV	
PCB260;2	20.990	1.30	0.1825	56527	VV	3
PCB260;3	21.336	1.34	0.1910	68372	VE	3
	21.670			3249	EV	
	21.888			730	EV	
	22.127			27586	VE	
PCB254;5	22.457	0.02	8.774E-03	1095	EV	2
PCB260;4	22.659	-0.18	0.1917	38916	VV	3
	22.836			30018	VV	
	23.048			58595	VV	
	23.177			50706	VV	
	23.432			26026	VE	
	23.796			1575	EV	
	23.967			7616	VB	
PCB260;5	24.596	0.52	0.1933	38076	BV	3
	24.759			12124	VV	
	24.917			25787	VV	
DBUCLE	25.108	1.25	0.2014	242080	VE	
	25.265			764	EB	
	25.885			155	BB	
	26.215			2621	BB	
	26.593			22350	BV	
	26.762			19286	VV	
	26.913			54530	VE	
	27.724			873	EV	
	27.944			2552	EB	
	28.456			621	BV	
	28.737			7017	VV	
	28.874			16899	VB	

	30.671			4236	BB
	31.909			68	BB
	32.226			512	BV
CL10BP	32.506	4.54	0.2094	431	VB

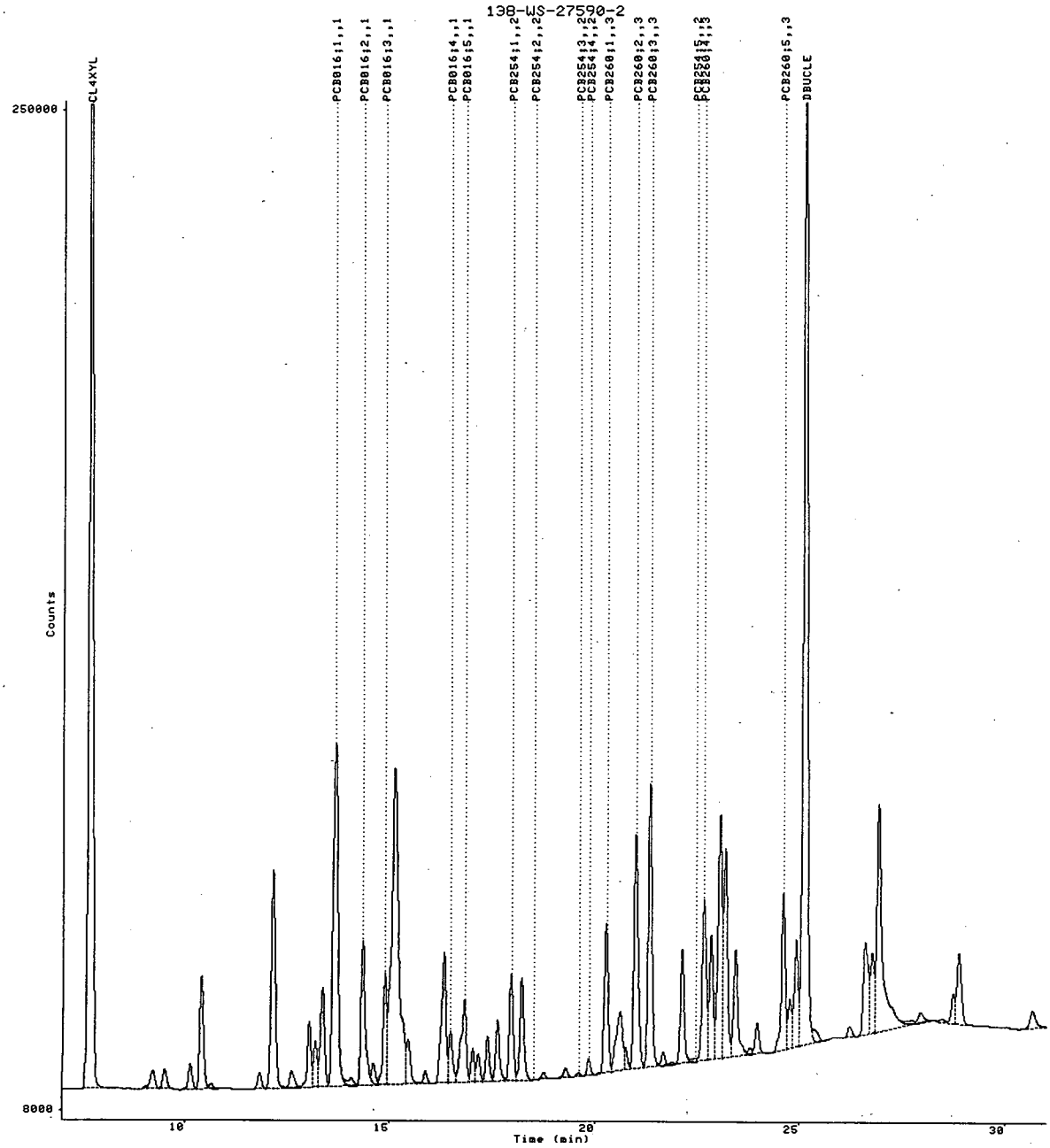
GROUP REPORT

Group	UG/SAMPLE
1	0.9565
2	0.1198
3	0.9418

ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Warning, Insufficient data for requested calculation fit. (153)
3: WARNING: Peak windows overlap. Check peak identification. (245)
4: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316053.RAW;1
Report: 1197250787
Acquired: 14-NOV-1997 00:34:33
Time range: 7.00-31.00



CCV1660_1.0

0233

Date.....17-NOV-1997 17:52:13.12 User: TAYLORC
Report number.....1197250789
Raw file.....DISK:[TAYLORC]5997316055.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....15-NOV-1997 13:46:17
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....CCV1660_1.0
Notes.....138-WS-27590-2

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....68
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	7.655	1.00	0.2244	293259			BB	
	9.065			1013			BV	
	9.229			5308			VV	
	9.515			5245			VB	
	10.142			6937			BV	
	10.409			28846			VE	
	10.651			1440			EB	
	11.844			4825			BV	

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	12.162			61170	VB	
	12.619			4764	BB	
	13.044			18041	BV	
	13.191			11657	VV	
	13.369			27063	VV	
PCB016;1	13.672	-0.36	0.2005	85498	VB	1
PCB016;2	14.346	-0.22	0.1994	36396	BE	1
	14.614			5543	EV	
PCB016;3	14.889	0.16	0.2210	30123	VV	1
	15.010			31348	VV	
	15.115			31654	VV	
	15.185			32449	VV	
	15.313			17596	VV	
	15.459			12475	VB	
	15.878			3221	BB	
	16.327			34784	BV	
PCB016;4	16.487	-0.58	0.1930	13636	VV	1
PCB016;5	16.823	0.52	0.1769	18801	VV	1
	17.028			7448	VV	
	17.167			3411	VV	
	17.381			5184	VV	
	17.631			8856	VV	
PCB254;1	17.960	0.01	0.08971	27719	VV	2
	18.218			28080	VE	
PCB254;2	18.505	0.34	3.982E-03-	499	EV	2
	18.647			1615	EV	
	18.753			1352	EB	
	19.296			1670	BB	
PCB254;3	19.676	-3.77	8.322E-03	1103	BV	2
PCB254;4	19.868	-0.21	0.02488	5572	VB	2
PCB260;1	20.276	1.11	0.2152	42723	BV	3
	20.618			17003	VV	
PCB260;2	20.998	0.85	0.2161	67011	VV	3
PCB260;3	21.342	0.96	0.2217	79812	VE	3
	21.674			3795	EV	
	21.914			878	EB	
	22.132			31375	BE	
PCB254;5	22.451	0.35	2.446E-03-	192	EB	2
PCB260;4	22.666	-0.57	0.2163	44071	BV	3
	22.841			31277	VV	
	23.053			63412	VV	
	23.182			56056	VV	
	23.437			27744	VE	
	23.785			574	EV	
	23.971			8060	VB	
PCB260;5	24.602	0.20	0.2179	43314	BV	3
	24.763			11700	VV	
	24.924			26527	VV	
DBUCLE	25.114	0.91	0.2276	276605	VB	
	26.219			3104	BB	
	26.593			23595	BV	
	26.765			16279	VV	
	26.916			53887	VE	
	27.265			1522	EB	
	27.946			1420	BB	
	28.462			606	BB	
	28.741			7722	BV	
	28.878			18850	VB	
	30.675			4715	BB	
CL10BP	32.541	2.49		92285	BB	

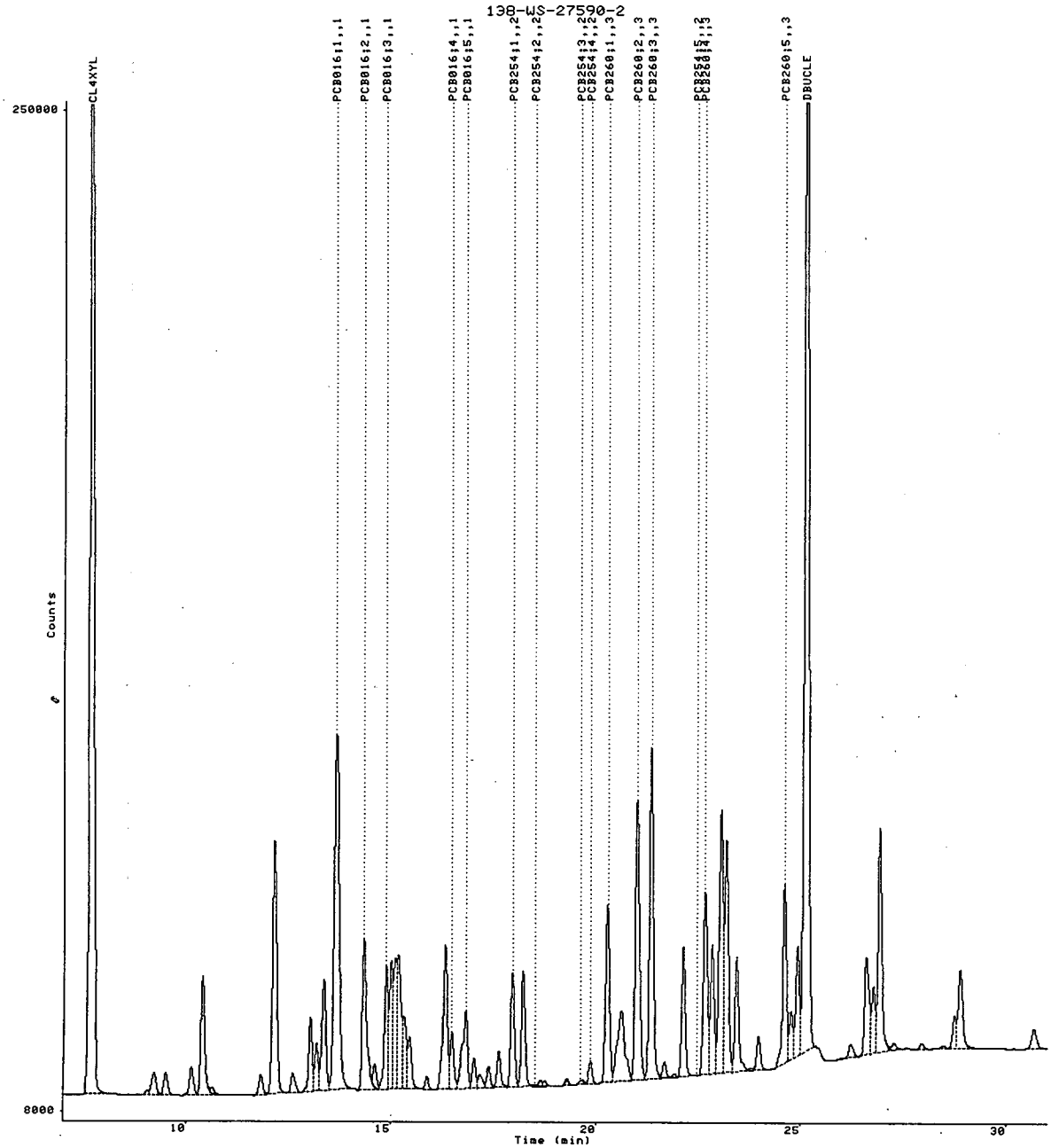
GROUP REPORT

Group	UG/SAMPLE
1	0.9909
2	0.1293
3	1.087

ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316055.RAW;1
Report: 1197250789
Acquired: 15-NOV-1997 13:46:17
Time range: 7.00-31.00



CCV1660_1.0

0237

Date.....17-NOV-1997 17:52:26.20 User: TAYLORC
Report number.....1197250790
Raw file.....DISK:[TAYLORC]5997316062.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....15-NOV-1997 19:43:06
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....ICV1254_1.0
Notes.....

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....	34.001 min	Delay time.....	7.000 min
Area reject.....	100 count(s)	No. peaks found.....	57
Noise threshold.....	10.0 microvolts	Area threshold.....	120
Start peak width....	6.00 sec(s)	Area/Pk.Ht.....	H
Min. window.....	8.00 sec	% window.....	0.00

Analysis type.....	EXTERNAL STANDARD	A/D range.....	1.0 volt(s)
Sample rack.....	25		
Sample vial.....	25		
Analysis fit.....	Quadratic	Origin treatment....	Ignore
Report units.....	UG/SAMPLE		
Sample amount.....	1.00000		
Volume injected.....	1.00000	Conversion factor...	1.00000E+00

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
16.48	PCB016;4	1		
32.58	CL10BP			

EXTERNAL STANDARD ANALYSIS 0238

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group

CL4XYL	7.652	1.20	0.1867	244714		BB	
	8.626			259		BB	
	9.088			69		BV	
	9.250			2519		VB	
	10.038			244		BB	
	10.409			462		BB	
	12.154			849		BB	
	12.940			297		BB	
	13.363			232		BB	
PCB016;1	13.649	1.04	3.334E-03-	1474		BB	1
PCB016;2	14.342	-0.01	1.800E-03-	364		BB	1
	14.611			770		BB	
PCB016;3	15.006	-6.83	0.2343	32225		BV	1
	15.190			10490		VE	
	15.452			486		EB	
	15.985			333		BV	
	16.323			19898		VV	
PCB016;5	16.821	0.66	0.05748	5650		VE	1
	17.008			392		EV	
	17.157			5891		VV	
	17.382			25416		VV	
	17.627			9082		VV	
PCB254;1	17.952	0.46	0.1755	51485		VV	2
	18.215			52129		VV	
PCB254;2	18.504	0.42	0.1793	23502		VV	2
	18.752			5663		VB	
	19.295			20690		BV	
PCB254;3	19.603	0.58	0.1740	20836		VV	2
PCB254;4	19.859	0.34	0.1757	36554		VV	2
	20.126			12399		VV	
PCB260;1	20.293	0.12	0.3660	74745		VE	3
	20.575			8649		EV	
	20.769			45979		VV	
PCB260;2	20.991	1.29	0.08118	25073		VV	3
	21.234			10012		VV	
PCB260;3	21.334	1.46	0.07647	26697		VE	3
	21.526			1647		EV	
	21.673			3327		EV	
	21.885			1008		VB	
	22.126			7726		BV	
PCB254;5	22.458	-0.08	0.1718	21950		VV	2
PCB260;4	22.645	0.66	0.09826	19654		VV	3
	22.832			12282		VV	
	23.051			39146		VE	
	23.454			2710		EV	
	23.594			3489		EV	
	23.791			672		VV	
	23.979			412		VB	
PCB260;5	24.594	0.63	0.01264	2135		BV	3
	24.745			11282		VV	
	24.845			6805		VV	
DBUCLE	25.097	1.94	0.1241	143970		VB	
	25.725			44		BB	
	26.657			624		BV	
	26.912			3243		VB	
	27.276			82		BB	
	28.873			164		BB	

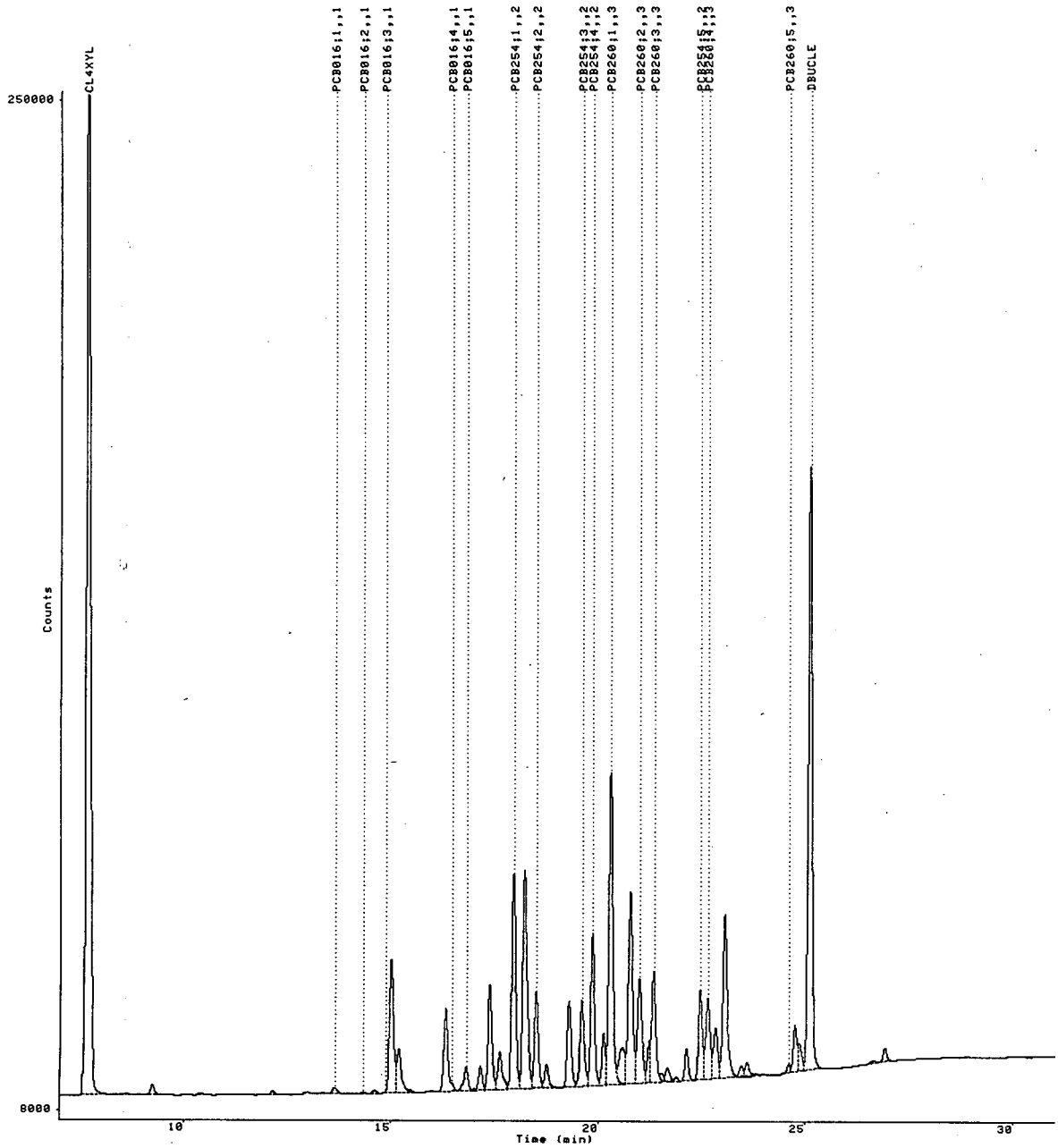
0239

Group	UG/SAMPLE
1	0.2970
2	0.8763
3	0.6345

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316062.RAW;1
Report: 1197250790
Acquired: 15-NOV-1997 19:43:06
Time range: 7.00-31.00



ICV1254_1.0

0241

Date.....17-NOV-1997 17:54:51.14 User: TAYLORC
Report number.....1197250801
Raw file.....DISK:[TAYLORC]5997316073.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....16-NOV-1997 02:34:10
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....CCV1660_1.0
Notes.....138-WS-27590-2

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....	34.001 min	Delay time.....	7.000 min
Area reject.....	100 count(s)	No. peaks found.....	68
Noise threshold.....	10.0 microvolts	Area threshold.....	120
Start peak width....	6.00 sec(s)	Area/Pk.Ht.....	H
Min. window.....	8.00 sec	% window.....	0.00
Analysis type.....	EXTERNAL STANDARD	A/D range.....	1.0 volt(s)
Sample rack.....	25		
Sample vial.....	25		
Analysis fit.....	Quadratic	Origin treatment....	Ignore
Report units.....	UG/SAMPLE		
Sample amount.....	1.00000		
Volume injected.....	1.00000	Conversion factor...	1.00000E+00

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	7.652	1.19	0.1935	253478			BB	
	8.626			125			BB	
	9.062			871			BV	
	9.225			4637			VV	
	9.511			4603			VB	
	10.139			6138			BV	
	10.406			26321			VE	
	10.649			1233			EB	

0242

	11.840			4338	BV	
	12.158			53831	VV	
	12.616			4357	VB	
	13.040			15844	BV	
	13.188			10447	VV	
	13.365			24041	VV	
PCB016;1	13.671	-0.29	0.1874	79888	VB	1
PCB016;2	14.343	-0.08	0.1872	34124	BE	1
	14.612			5168	EV	
PCB016;3	14.888	0.23	0.2051	27649	VV	1
	15.009			28332	VV	
	15.119			37023	VV	
	15.305			16046	VV	
	15.458			11443	VB	
	15.875			3019	BB	
	16.323			32134	BV	
PCB016;4	16.484	-0.44	0.1812	12750	VV	1
PCB016;5	16.821	0.66	0.1645	17344	VV	1
	17.026			6992	VV	
	17.164			3347	VV	
	17.383			4744	VV	
	17.629			8587	VV	
PCB254;1	17.957	0.18	0.08197	25453	VV	2
	18.215			26103	VE	
PCB254;2	18.502	0.56	4.066E-03-	511	EV	2
	18.643			1506	EV	
	18.750			1072	EB	
	19.295			1650	BB	
PCB254;3	19.678	-3.89	8.059E-03	1068	BV	2
PCB254;4	19.867	-0.10	0.02449	5486	VB	2
PCB260;1	20.275	1.22	0.1986	39307	BV	3
	20.614			16375	VV	
PCB260;2	20.995	1.02	0.1993	61780	VV	3
PCB260;3	21.340	1.09	0.2029	72789	VE	3
	21.673			3807	EV	
	21.912			906	EV	
	22.130			29684	VE	
PCB254;5	22.455	0.14	2.292E-03-	170	EB	2
PCB260;4	22.663	-0.42	0.2024	41160	BV	3
	22.840			29805	VV	
	23.051			60207	VV	
	23.180			50906	VV	
	23.436			25715	VE	
	23.790			759	EV	
	23.969			7861	VB	
PCB260;5	24.600	0.31	0.2079	41165	BV	3
	24.762			13012	VV	
	24.921			27223	VV	
DBUCLE	25.111	1.07	0.2079	250622	VB	
	26.218			2961	BB	
	26.591			21965	BV	
	26.763			15189	VV	
	26.916			49520	VE	
	27.266			1426	EB	
	27.946			1428	BB	
	28.461			580	BB	
	28.742			7349	BV	
	28.879			17912	VB	
	30.672			4537	BB	
CL10BP	32.539	2.60		83498	BB	

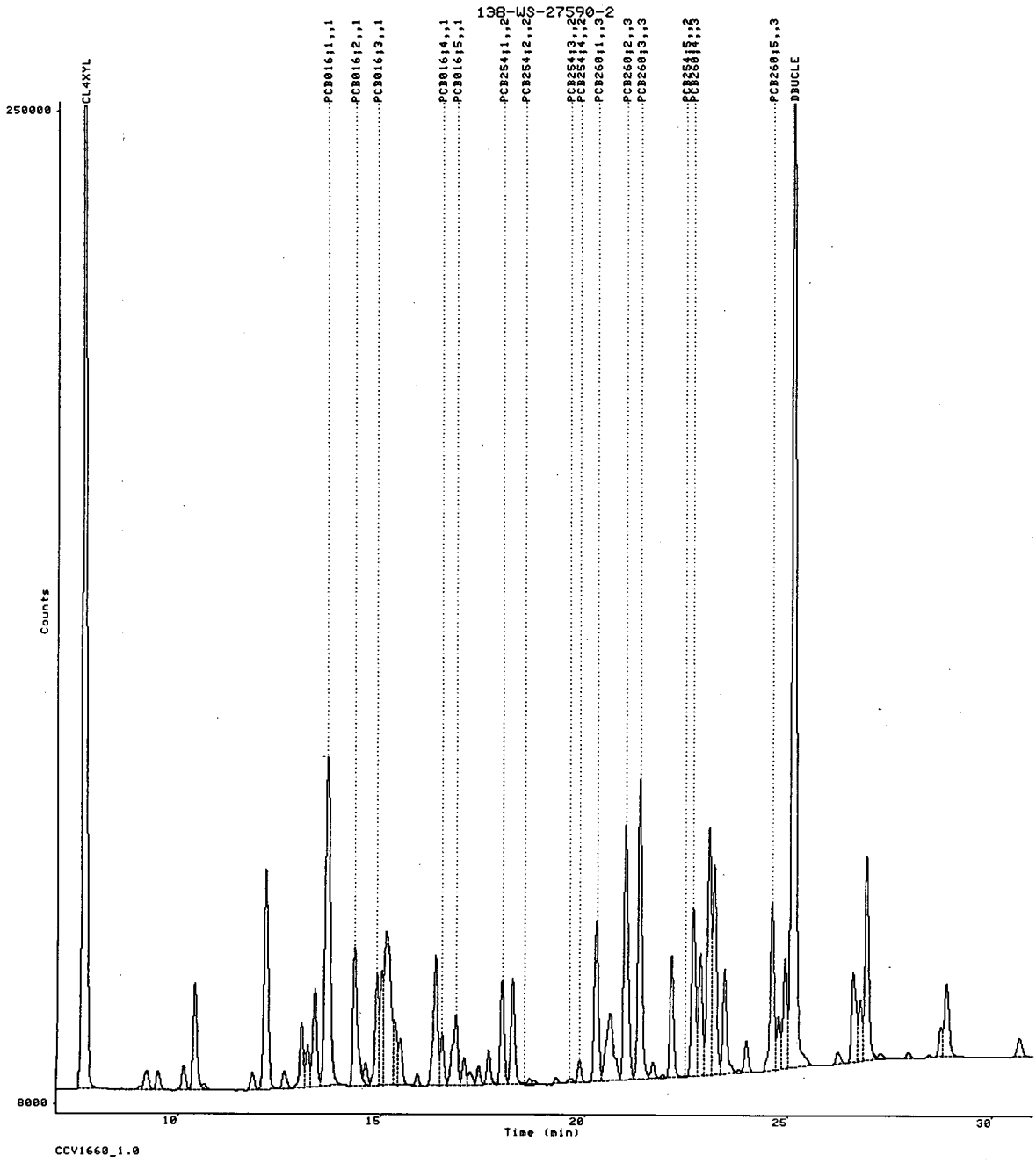
GROUP REPORT

Group	UG/SAMPLE
1	0.9254
2	0.1209
3	1.011

ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316073.RAW;1
Report: 1197250801
Acquired: 16-NOV-1997 02:34:10
Time range: 7.00-31.00



Date.....17-NOV-1997 17:57:14.22 User: TAYLORC
Report number.....1197250813
Raw file.....DISK:[TAYLORC]5997316084.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....10

Acq. date.....16-NOV-1997 09:25:08
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....CCV1660_1.0
Notes.....138-WS-27590-2

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....69
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	7.663	0.56	0.1993	260878		BB	
	8.635			255		BB	
	9.071			915		BV	
	9.233			5111		VV	
	9.521			5046		VB	
	10.147			6752		BV	
	10.415			28858		VE	
	10.655			1297		EB	

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	11.847			4913	BV	
	12.165			60984	VV	
	12.624			5011	VB	
	13.047			18343	BV	
	13.195			12063	VV	
	13.371			27695	VV	
PCB016;1	13.676	-0.61	0.2159	92095	VB	1
PCB016;2	14.349	-0.44	0.2163	39541	BE	1
	14.617			6004	EV	
PCB016;3	14.893	-0.08	0.2388	32939	VV	1
	15.013			32879	VV	
	15.119			43566	VV	
	15.311			18507	VV	
	15.462			13224	VB	
	15.880			3446	BB	
	16.327			36806	BV	
PCB016;4	16.488	-0.66	0.2077	14754	VV	1
PCB016;5	16.825	0.41	0.1893	20269	VV	1
	17.029			8117	VV	
	17.166			3783	VV	
	17.385			5527	VV	
	17.632			9921	VV	
PCB254;1	17.960	0.01	0.09492	29237	VV	2
	18.218			29561	VE	
PCB254;2	18.508	0.19	4.402E-03-	559	EV	2
	18.646			1749	EV	
	18.751			1263	EB	
	19.301			2161	BV	
	19.441			659	VV	
PCB254;3	19.674	-3.69	0.01075	1426	VV	2
PCB254;4	19.869	-0.22	0.02866	6412	VV	2
PCB260;1	20.277	1.10	0.2215	44025	VV	3
	20.618			18346	VV	
PCB260;2	20.997	0.90	0.2181	67621	VV	3
PCB260;3	21.341	1.02	0.2165	77854	VE	3
	21.676			4150	EV	
	21.914			1020	EV	
	22.132			31908	VE	
PCB254;5	22.454	0.19	2.593E-03-	213	EB	2
PCB260;4	22.665	-0.53	0.2183	44499	BV	3
	22.841			31574	VV	
	23.053			63805	VV	
	23.181			52739	VV	
	23.436			26990	VE	
	23.795			962	EV	
	23.971			8309	VB	
PCB260;5	24.601	0.25	0.2180	43332	BV	3
	24.762			13510	VV	
	24.923			28091	VV	
DBUCLE	25.112	1.01	0.2127	256925	VB	
	26.219			3024	BB	
	26.592			22565	BV	
	26.766			15318	VV	
	26.916			50293	VE	
	27.269			1347	EB	
	27.947			1446	BB	
	28.462			588	BB	
	28.741			7618	BV	
	28.879			18382	VB	
	30.674			4570	BB	

CL10BP	32.540	2.50	84632	BB

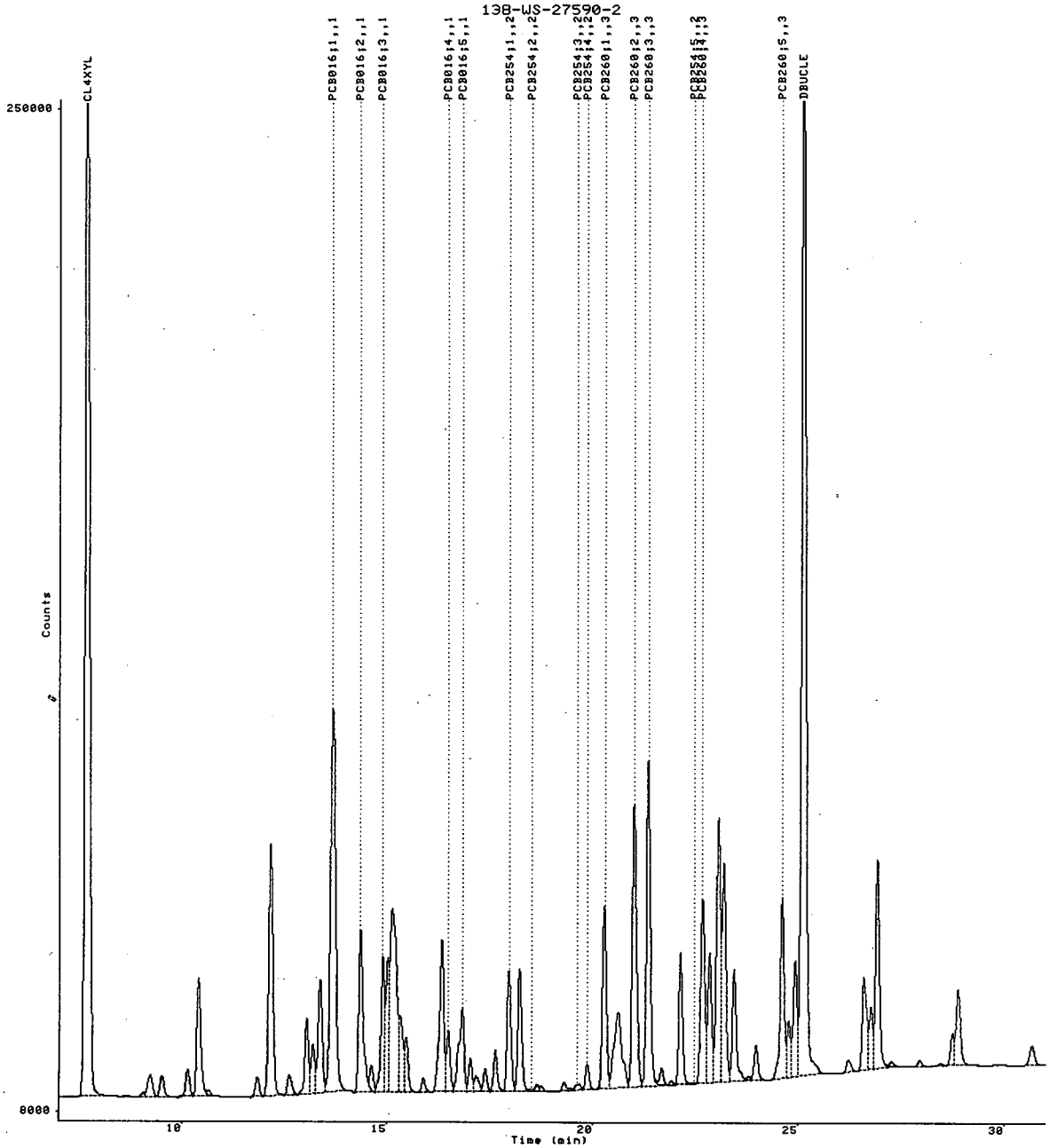
GROUP REPORT

Group	UG/SAMPLE
1	1.068
2	0.1413
3	1.092

ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316084.RAW;1
Report: 1197250813
Acquired: 16-NOV-1997 09:25:08
Time range: 7.00-31.00



CCV1660_1.0

12/5/97 11/18/97 0249

Section 4.
Environmental Organic Analysis
(Rev. 1: 3/95)

Extract Data (Primary Column)
Inventory Checklist

- [x] Blank, QC sample(s), MS/MSD(s) {if applicable}, and field sample extracts
- [x] Surrogate data (if applicable): the surrogate data consists of the raw data for all extracts
- [x] Dilutions (if applicable)

Section 4.
Extract Data (Primary Column)
Reviewer Checklist

X The extract data inventory checklist above is complete.

X The extract data has been verified for the following:

- ☞ Response data are consistent with tabular summary sheets for all data.
- ☞ Spiked analyte and surrogate retention times fall within the applicable retention time windows.
- ☞ The chromatograms are scaled no greater than the low calibration standard(s), with the exception of chromatograms that have been re-scaled due to high level hits or matrix.
- ☞ Integration is consistent with good chromatography practices unless otherwise specified on raw data.
- ☞ When multi-component analytes are being quantitated, the total response is shown on each raw data file for each multi-peak method used.
- ☞ Manual edits have been initialed and dated by the analyst.
- ☞ All method headers reflect correct analysis data.

X Unless otherwise stated with reasoning in the case narrative, the following QC criteria has been verified:

- ☞ Analytical hold times have been met.
- ☞ All surrogate and spiked analyte recovery criteria has been met.
- ☞ Extraction and analytical hold times have been met.
- ☞ Dilutions were performed appropriately.

Date.....17-NOV-1997 17:45:56.44 User: TAYLORC
Report number.....1197250760
Raw file.....DISK:[TAYLORC]5997316027.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....6

Acq. date.....13-NOV-1997 07:34:21
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05021
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....97
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.153			1086		BV	
	7.242			981		VV	
	7.393			641		VV	
CL4XYL	7.657	0.91	12.33	48986		VE	
	7.961			576		EB	
	8.368			1174		BV	
	8.632			405		VV	
	8.857			766		VV	

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	9.187				40150	VE	
	9.498				5545	EV	
	9.761				15911	VV	
	10.142				12810	VV	
	10.288				12144	VV	
	10.408				10371	VV	
	10.581				31731	VE	
	10.846				4603	EV	
	11.043				4433	EV	
	11.167				5372	VV	
	11.411				4778	VV	
	11.573				19301	VV	
	11.846				14728	VV	
	12.166				72160	VV	
	12.623				64420	VV	
	12.886				17498	VV	
	13.050				58604	VV	
	13.189				151056	VV	
	13.327				123001	VV	
PCB016;1	13.683	-1.01	126.6		162924	VE	1
	14.011				25003	EV	
PCB016;2	14.337	0.29	59.63		32572	EV	1
	14.468				28071	VV	
	14.618				133110	VV	
PCB016;3	14.789	6.19	189.2	+	95093	VV	1
	15.008				437036	VV	
	15.201				535125	VV	
	15.296				417878	VV	
	15.474				158760	VV	
	15.864				95421	VV	
	16.329				305505	VV	
PCB016;4	16.485	-0.46	591.7	+	196589	VV	1
PCB016;5	16.735	5.83	474.8	+	265636	VV	1
	17.015				75328	VV	
	17.155				122404	VV	
	17.382				296481	VV	
	17.628				426654	VV	
PCB254;1	17.954	0.36			768960	VV	2
	18.224				683351	VV	
PCB254;2	18.511	-0.02			548912	VV	2
	18.759				209611	VV	
	18.904				82352	VV	
	19.307				316610	VV	
PCB254;3	19.614	-0.06			333933	VV	2
PCB254;4	19.866	-0.05			408590	VV	2
	20.134				265858	VV	
PCB260;1	20.296	-0.04	1073	+	993978	VV	3
	20.560				264704	VV	
	20.766				973599	VV	
PCB260;2	20.944	4.11	1002	+	989083	VV	3
PCB260;3	21.339	1.15	547.0	+	735636	VE	3
	21.681				100107	EV	
	21.925				79386	EV	
	22.132				218825	VV	
PCB254;5	22.457	0.02			359924	VV	2
PCB260;4	22.650	0.34	564.9	+	425808	VV	3
	22.838				435429	VV	
	23.053				959118	VV	
	23.457				134803	VV	
	23.600				91164	VE	

	23.979				15628	EB	
	24.286				344	BB	
PCB260;5	24.601	0.22	137.7	+	87691	BV	3
	24.752				346914	VV	
	24.841				286518	VV	
DBUCLE	25.128	0.07	83.76		308325	VB	
	25.945				324	BB	
	26.221				2106	BV	
	26.395				1598	VV	
	26.652				38054	VV	
	26.757				17788	VV	
	26.917				181306	VE	
	27.263				10097	EV	
	27.511				4035	EV	
	27.737				34617	VE	
	27.937				1831	EB	
	28.243				442	BV	
	28.464				825	VB	
	28.744				7968	BV	
	28.879				19209	VB	
	29.488				378	BV	
	29.899				1174	VB	
	30.215				480	BB	
	30.673				4809	BV	
	30.896				4603	VB	
	31.863				398	BB	
	32.181				76	BB	
CL10BP	32.544	2.30			19570	BB	
	33.466				1765	BB	

GROUP REPORT

Group	UG/SAMPLE
1	1442
3	3324

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL R	Peak Name
1	7.153	6984	1086	0.005		BV	
2	7.242	5584	981	0.004		VV	
3	7.393	4645	641	0.004		VV	
4	7.657	325913	48986	0.246		VE	CL4XYL
5	7.961	5483	576	0.004		EB	
6	8.368	13164	1174	0.010		BV	
7	8.632	3753	405	0.003		VV	
8	8.857	7025	766	0.005		VV	
9	9.187	473473	40150	0.358		VE	
10	9.498	79509	5545	0.060		EV	
11	9.761	136002	15911	0.103		VV	
12	10.142	121501	12810	0.092		VV	
13	10.288	84025	12144	0.063		VV	
14	10.408	62900	10371	0.048		VV	
15	10.581	289685	31731	0.219		VE	
16	10.846	45616	4603	0.034		EV	
17	11.043	33472	4433	0.025		EV	
18	11.167	57625	5372	0.044		VV	

19	11.411	37379	4778	0.028	VV	
20	11.573	192400	19301	0.145	VV	
21	11.846	166272	14728	0.126	VV	
22	12.166	588640	72160	0.445	VV	
23	12.623	554400	64420	0.419	VV	
24	12.886	126867	17498	0.096	VV	
25	13.050	356378	58604	0.269	VV	
26	13.189	993026	151056	0.750	VV	
27	13.327	913793	123001	0.690	VV	
28	13.683	1588420	162924	1.200	VE	PCB016;1
29	14.011	255705	25003	0.193	EV	
30	14.337	351220	32572	0.265	EV	PCB016;2
31	14.468	151936	28071	0.115	VV	
32	14.618	968835	133110	0.732	VV	
33	14.789	790672	95093	0.597	VV	PCB016;3
34	15.008	3007642	437036	2.272	VV	
35	15.201	3454404	535125	2.610	VV	
36	15.296	2540739	417878	1.920	VV	
37	15.474	1474167	158760	1.114	VV	
38	15.864	1056295	95421	0.798	VV	
39	16.329	2812411	305505	2.125	VV	
40	16.485	1479301	196589	1.118	VV	PCB016;4
41	16.735	3213075	265636	2.427	VV	PCB016;5
42	17.015	488681	75328	0.369	VV	
43	17.155	1036130	122404	0.783	VV	
44	17.382	2268661	296481	1.714	VV	
45	17.628	3549316	426654	2.682	VV	
46	17.954	6261296	768960	4.730	VV	PCB254;1
47	18.224	6431079	683351	4.859	VV	
48	18.511	4433915	548912	3.350	VV	PCB254;2
49	18.759	1726589	209611	1.304	VV	
50	18.904	849055	82352	0.641	VV	
51	19.307	3062825	316610	2.314	VV	
52	19.614	3226693	333933	2.438	VV	PCB254;3
53	19.866	3180767	408590	2.403	VV	PCB254;4
54	20.134	1777705	265858	1.343	VV	
55	20.296	8622809	993978	6.515	VV +	PCB260;1
56	20.560	2571575	264704	1.943	VV	
57	20.766	6887356	973599	5.203	VV +	
58	20.944	9465087	989083	7.151	VV +	PCB260;2
59	21.339	6140673	735636	4.639	VE	PCB260;3
60	21.681	969509	100107	0.732	EV	
61	21.925	633615	79386	0.479	EV	
62	22.132	1596322	218825	1.206	VV	
63	22.457	2355831	359924	1.780	VV	PCB254;5
64	22.650	3368167	425808	2.545	VV	PCB260;4
65	22.838	3200779	435429	2.418	VV	
66	23.053	7842268	959118	5.925	VV	
67	23.457	975928	134803	0.737	VV	
68	23.600	710598	91164	0.537	VE	
69	23.979	118552	15628	0.090	EB	
70	24.286	1593	344	0.001	BB	
71	24.601	507075	87691	0.383	BV	PCB260;5
72	24.752	2157588	346914	1.630	VV	
73	24.841	1980032	286518	1.496	VV	
74	25.128	2633472	308325	1.990	VB	DBUCLE
75	25.945	1765	324	0.001	BB	
76	26.221	14598	2106	0.011	BV	
77	26.395	10156	1598	0.008	VV	
78	26.652	333941	38054	0.252	VV	

79	26.757	62987	17788	0.048	VV	
80	26.917	1173950	181306	0.887	VE	
81	27.263	78082	10097	0.059	EV	
82	27.511	28414	4035	0.021	EV	
83	27.737	271677	34617	0.205	VE	
84	27.937	11680	1831	0.009	EB	
85	28.243	4154	442	0.003	BV	
86	28.464	5934	825	0.004	VB	
87	28.744	47370	7968	0.036	BV	
88	28.879	145802	19209	0.110	VB	
89	29.488	4284	378	0.003	BV	
90	29.899	11261	1174	0.009	VB	
91	30.215	3720	480	0.003	BB	
92	30.673	36621	4809	0.028	BV	
93	30.896	43517	4603	0.033	VB	
94	31.863	3526	398	0.003	BB	
95	32.181	413	76	0.000	BB	
96	32.544	191182	19570	0.144	BB	CL10BP
97	33.466	16022	1765	0.012	BB	
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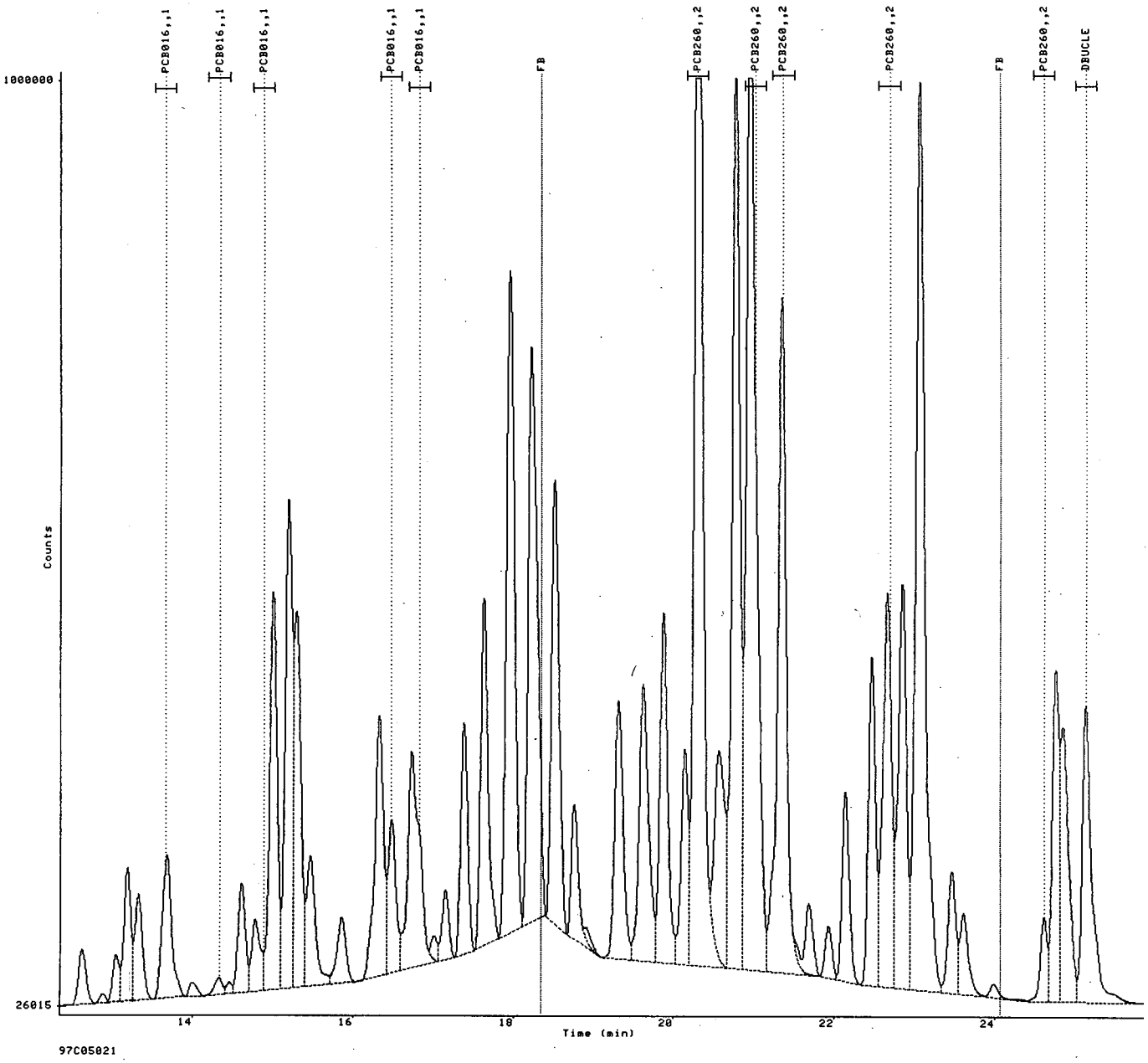
Totals		132362933		100.000		

ANALYSIS NOTES

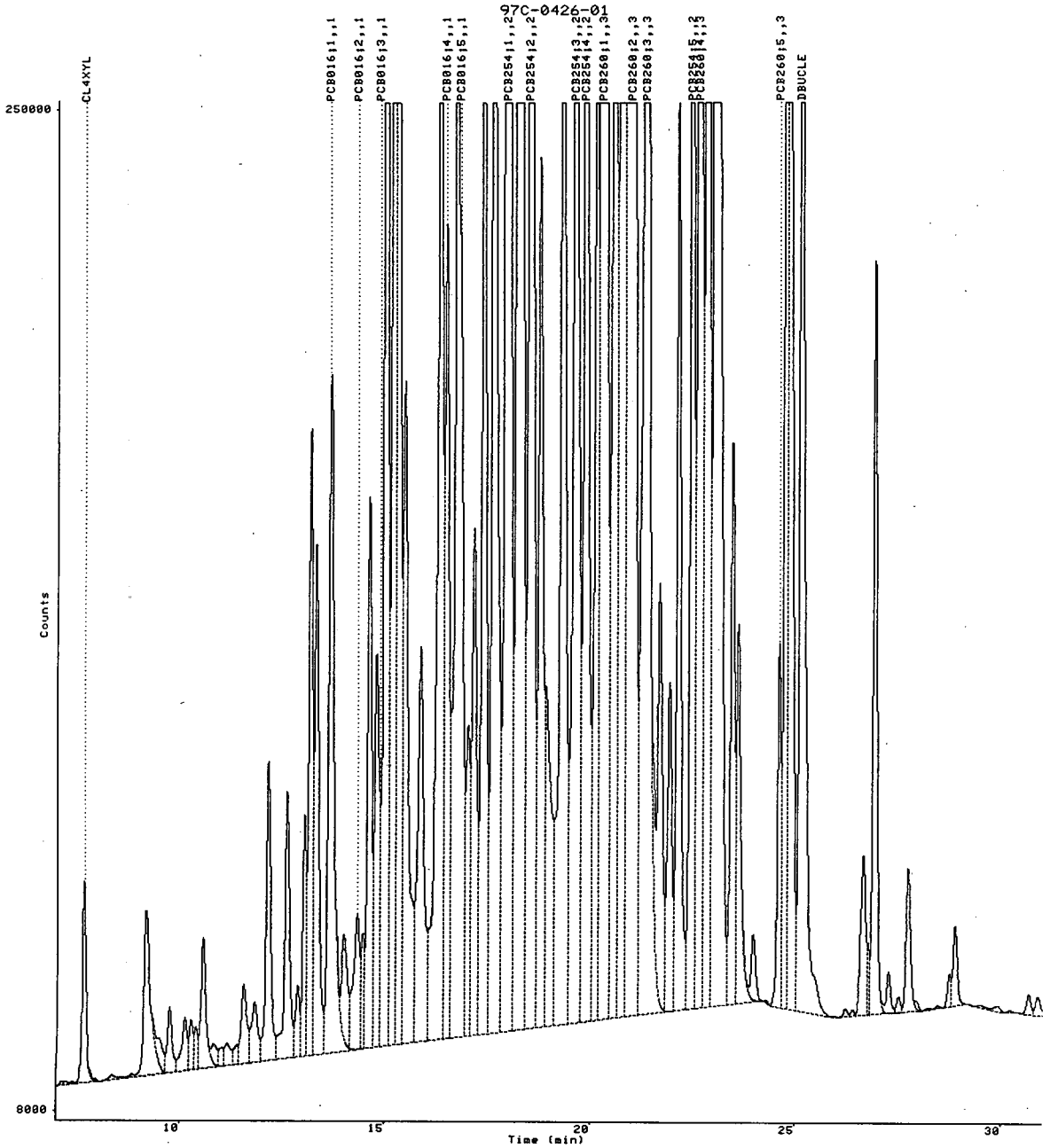
1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316027.RAW;1
Report: 1197248512
Acquired: 13-NOV-1997 07:34:21
Time range: 12.35-25.85



0256

Data file: DISK:[TAYLORC]5997316027.RAW;1
Report: 1197250760
Acquired: 13-NOV-1997 07:34:21
Time range: 7.00-31.00



97C05021

0257

Date.....17-NOV-1997 17:46:09.14 User: TAYLORC
Report number.....1197250761
Raw file.....DISK:[TAYLORC]5997316028.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....6

Acq. date.....13-NOV-1997 09:00:28
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....BL-142009-1
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.002 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....30
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
16.48	PCB016;4	1		
16.83	PCB016;5	1		
17.96	PCB254;1	2		
18.51	PCB254;2	2		
19.61	PCB254;3	2		
19.86	PCB254;4	2		
20.30	PCB260;1	3		
21.01	PCB260;2	3		
21.36	PCB260;3	3		
22.46	PCB254;5	2		
22.66	PCB260;4	3		

10 mL
0.03 kg

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

ug/kg

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.308			404		BB	
CL4XYL	7.671	0.06	24.87=	98551		BB	
	8.472			452		BV	
	8.636			370		VB	
	9.269			940		BB	
	9.588			418		BV	
	9.765			1080		VB	
	11.836			233		BB	
	12.172			104		BB	
	13.049			288		BV	
	13.252			324		VB	
PCB016;1	13.686	-1.18	0.2677 -	403		BB	1
	13.919			371		BB	
PCB016;2	14.365	-1.39	0.2037 -	152		BB	1
	14.615			97		BB	
PCB016;3	14.902	-0.60	0.4970 -	43		BB	1
	15.160			3332		BB	
	17.821			108		BB	
	21.781			713		BB	
	23.821			550		BV	
	24.035			259		VB	
	24.257			204		BB	
DBUCLE	25.115	0.87	13.54	44284		BB	
	26.803			548		BB	
	27.448			46		BB	
	27.740			893		BV	
	27.968			245		VB	
	30.697			713		BB	
	32.079			111		BB	
CL10BP	32.562	1.21		32709		BB	

$\frac{X \text{ ug/mL} \times 10 \text{ mL}}{0.03 \text{ kg}}$

X = 0.07461 ug/mL

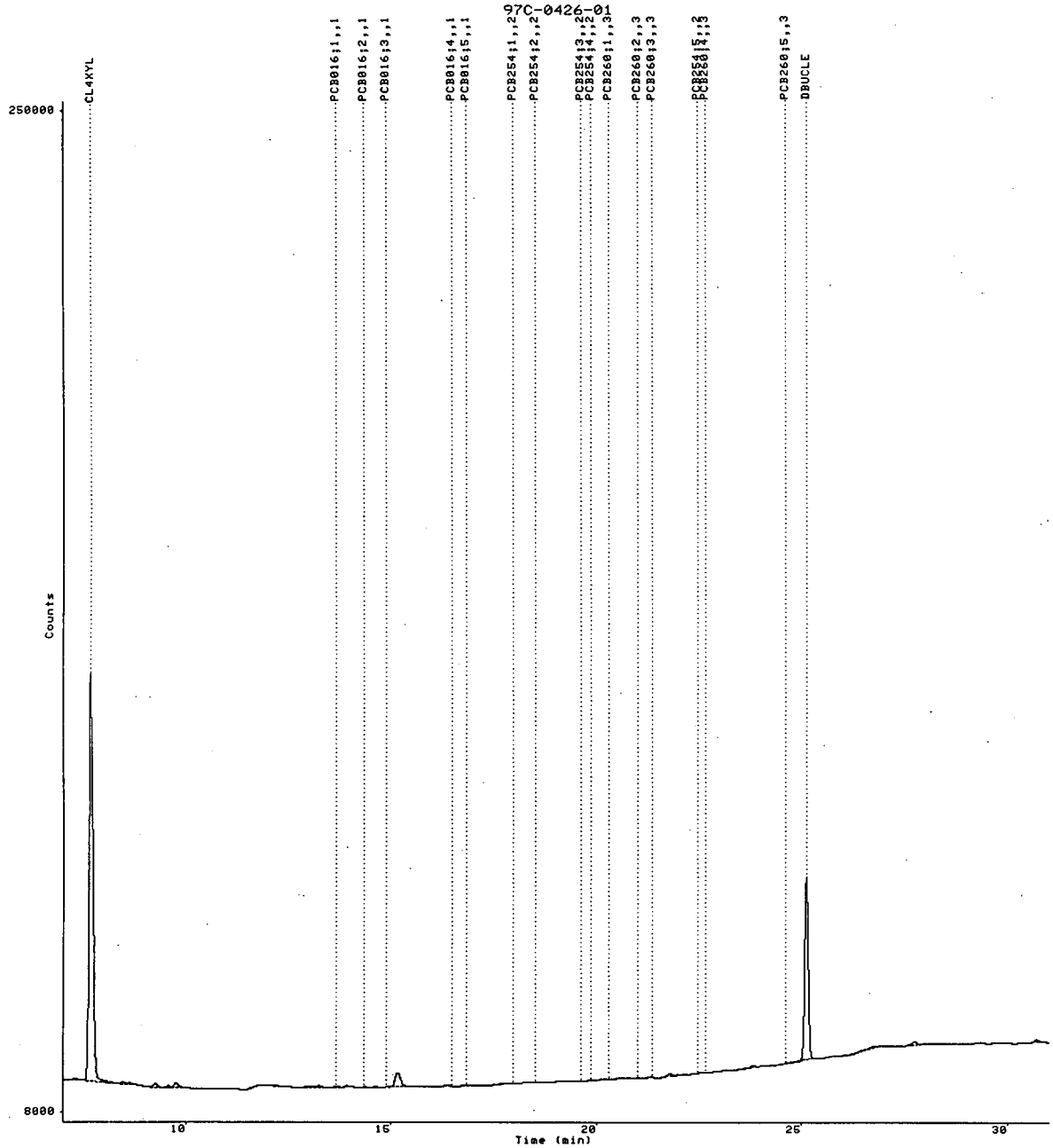
GROUP REPORT

Group	UG/SAMPLE
1	0.9684

ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316028.RAW;1
Report: 1197250761
Acquired: 13-NOV-1997 09:00:28
Time range: 7.00-31.00



BL-142009-1

0260

Date.....17-NOV-1997 17:46:21.17 User: TAYLORC
Report number.....1197250762
Raw file.....DISK:[TAYLORC]5997316029.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....6

Acq. date.....13-NOV-1997 09:37:52
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....QC-142009-1
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....73
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.118			812		BV	
	7.223			1210		VB	
CL4XYL	7.654	1.09	25.28	100175		BB	
	8.617			247		BB	
	9.062			428		BV	
	9.216			2288		VB	
	9.562			6111		BB	
	10.144			3521		BB	

0261

	10.411			16422	BE	
	10.658			679	EB	
	11.612			59	BB	
	11.847			2637	BV	
	12.163			32916	VE	
	12.620			2623	EV	
	13.045			9502	VV	
	13.190			6259	VV	
	13.371			14495	VV	
PCB016;1	13.677	-0.67	37.33	47637	VV	1
PCB016;2	14.351	-0.55	37.20	20182	VE	1
	14.617			3050	EV	
PCB016;3	14.898	-0.34	38.75	14695	VV	1
	15.010			17136	VV	
	15.202			15908	VV	
	15.316			9155	VV	
	15.464			6534	VB	
	15.880			1676	BB	
	16.331			18942	BV	
PCB016;4	16.491	-0.86	36.93	7594	VV	1
PCB016;5	16.830	0.14	36.78	11244	VV	1
	17.033			4690	VV	
	17.168			3671	VV	
	17.394			5898	VV	
	17.639			7657	VV	
PCB254;1	17.964	-0.26	18.48	17520	VV	2
	18.224			16148	VE	
PCB254;2	18.508	0.15	1.713	664	EV	2
	18.767			697	EB	
	19.302			1606	BB	
PCB254;3	19.613	-0.00	2.043	811	BB	2
PCB254;4	19.870	-0.28	4.906	3298	BB	2
PCB260;1	20.284	0.66	38.05	22193	BV	3
	20.622			9040	VV	
	20.777			4133	VV	
PCB260;2	21.003	0.52	36.84	34170	VV	3
PCB260;3	21.348	0.58	37.79	39944	VE	3
	21.680			2371	EV	
	21.893			453	EB	
	22.139			14851	BE	
PCB254;5	22.475	-1.07	0.9969 -	270	EV	2
PCB260;4	22.670	-0.86	37.23	22389	VV	3
	22.848			15867	VV	
	23.062			33263	VV	
	23.186			28238	VV	
	23.443			13541	VE	
	23.812			465	EV	
	23.978			3891	VB	
	24.248			160	BB	
PCB260;5	24.607	-0.13	36.24	20701	BV	3
	24.770			7166	VV	
	24.927			14345	VV	
DBUCLE	25.124	0.29	29.28	99860	VB	
	26.230			1596	BV	
	26.602			13771	VV	
	26.774			12875	VV	
	26.924			31463	VE	
	27.261			2112	EV	
	27.729			1573	VV	
	27.950			972	VB	

	28.470		275	BB
	28.750		3798	BV
	28.888		8846	VB
	30.682		2223	BB
CL10BP	32.548	2.01	35773	BB

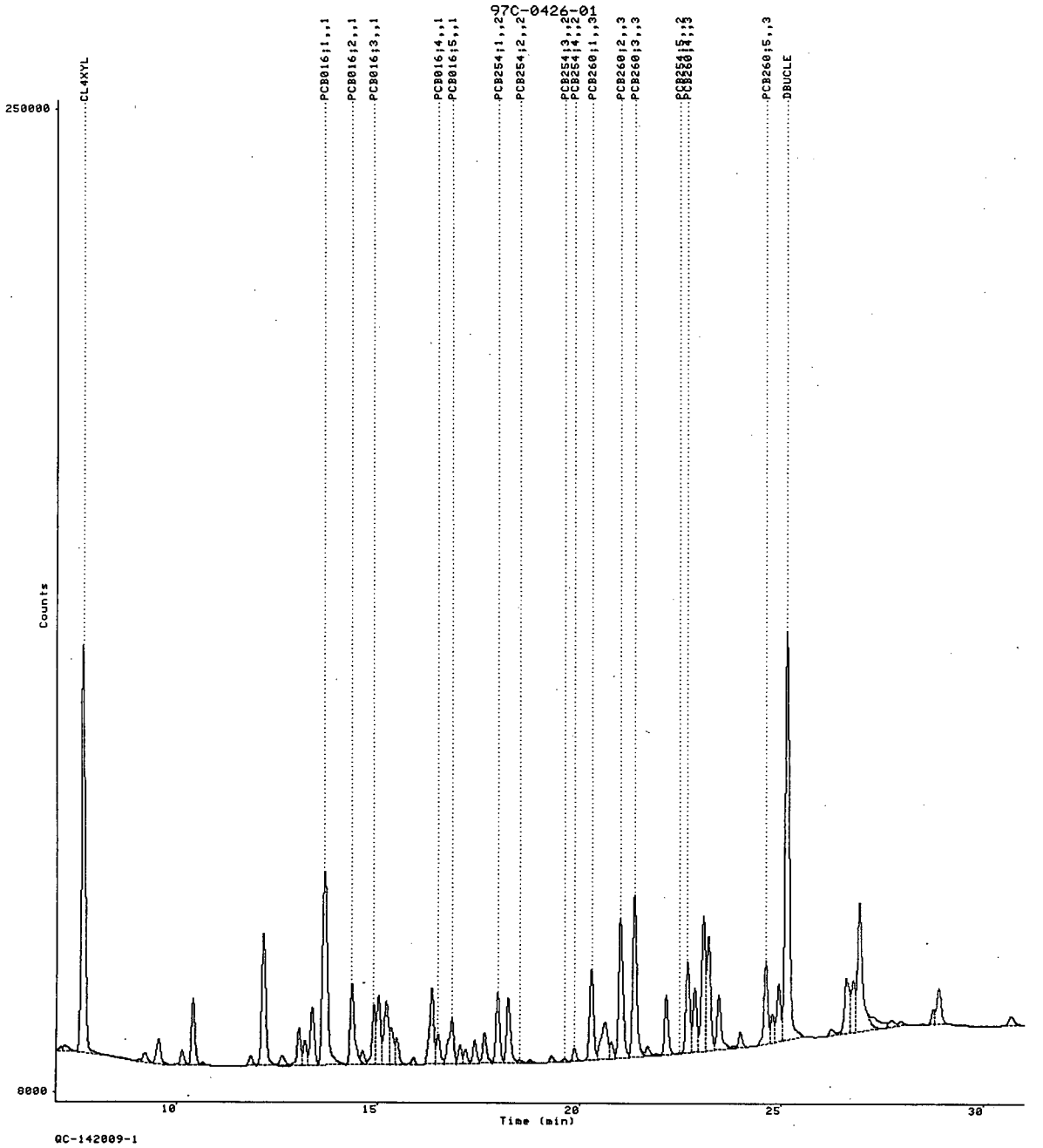
GROUP REPORT

Group	UG/SAMPLE
1	187.0
2	28.14
3	186.1

ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316029.RAW;1
Report: 1197250762
Acquired: 13-NOV-1997 09:37:52
Time range: 7.00-31.00



0264

Date.....17-NOV-1997 17:46:35.46 User: TAYLORC
Report number.....1197250763
Raw file.....DISK:[TAYLORC]5997316030.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....6

Acq. date.....13-NOV-1997 10:15:13
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05020
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....	34.001 min	Delay time.....	7.000 min
Area reject.....	100 count(s)	No. peaks found.....	99
Noise threshold.....	10.0 microvolts	Area threshold.....	120
Start peak width....	6.00 sec(s)	Area/Pk.Ht.....	H
Min. window.....	8.00 sec	% window.....	0.00
Analysis type.....	EXTERNAL STANDARD	A/D range.....	1.0 volt(s)
Sample rack.....	25		
Sample vial.....	25		
Analysis fit.....	Quadratic	Origin treatment....	Ignore
Report units.....	UG/SAMPLE		
Sample amount.....	1.00000		
Volume injected.....	1.00000	Conversion factor...	3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.164			1239		BV	
	7.393			1009		VV	
CL4XYL	7.656	0.99	20.81	82532		VB	
	8.363			1134		BV	
	8.654			1995		VV	
	8.854			7484		VV	
	9.195			22132		VV	
	9.506			6517		VV	

0265

	9.763				54736	VV	
	10.136				15803	VV	
	10.291				9770	VV	
	10.404				10450	VV	
	10.580				29992	VE	
	10.840				2032	EV	
	11.022				508	EV	
	11.167				1590	VB	
	11.563				22031	BV	
	11.844				23956	VV	
	12.164				81401	VE	
	12.462				1313	EV	
	12.618				94882	VV	
	12.887				32473	VV	
	13.050				67279	VV	
	13.186				125514	VV	
	13.328				89721	VV	
PCB016;1	13.682	-0.94	133.4	+	171803	VV	1
	14.056				29760	VV	
PCB016;2	14.333	0.57	47.33		25755	VV	1
	14.461				14143	VV	
	14.617				137379	VV	
PCB016;3	14.789	6.18	170.9	+	83381	VV	1
	15.008				566805	VV	
	15.199				556445	VV	
	15.298				401225	VV	
	15.477				116507	VV	
	15.687				33511	VV	
	15.858				94359	VE	
	16.083				11066	EV	
	16.326				374535	VV	
PCB016;4	16.482	-0.28	525.6	+	166695	VV	1
	16.735				186858	VV	
PCB016;5	16.820	0.74	391.9	+	200521	VE	1
	17.022				45010	EV	
	17.150				143562	VV	
	17.381				392700	VV	
	17.628				414403	VV	
PCB254;1	17.953	0.39			998158	VV	2
	18.222				862388	VV	
PCB254;2	18.518	-0.44			630565	VV	2
	18.757				219937	VV	
	18.939				57062	VV	
	19.303				376886	VV	
PCB254;3	19.612	0.09			401219	VV	2
PCB254;4	19.863	0.09			610447	VV	2
	20.132				332881	VV	
PCB260;1	20.297	-0.15	1073	+	994544	VV	3
	20.561				258288	VV	
	20.766				991361	VV	
PCB260;2	20.945	4.00	844.0	+	825339	VV	3
PCB260;3	21.339	1.14	575.8	+	783576	VE	3
	21.683				100607	EV	
	21.929				125799	VV	
	22.132				254872	VV	
PCB254;5	22.456	0.07			553985	VV	2
PCB260;4	22.650	0.39	618.2	+	475419	VV	3
	22.837				460942	VV	
	23.053				993094	VV	
	23.457				142136	VV	

	23.601				109132	VE	
	23.962				18440	EB	
	24.290				842	BB	
PCB260;5	24.602	0.17	150.1	+	96765	BV	3
	24.750				398904	VV	
	24.839				302532	VV	
DBUCLE	25.128	0.08	90.02		333878	VE	
	25.558				10418	EV	
	25.865				2292	EB	
	26.215				4281	BV	
	26.400				2514	VV	
	26.647				42670	VV	
	26.762				24003	VV	
	26.917				190150	VE	
	27.261				11547	EV	
	27.509				6026	EV	
	27.738				190773	VE	
	28.450				2423	EV	
	28.743				10398	EV	
	28.878				23975	EV	
	29.347				719	VV	
	29.498				490	VB	
	29.932				445	BV	
	30.220				610	VB	
	30.677				7863	BE	
	30.894				1465	EB	
	31.299				161	BB	
	32.078				777	BV	
CL10BP	32.544	2.27			33460	VE	
	33.148				341	EB	
	33.462				2438	BB	

GROUP REPORT

Group	UG/SAMPLE
1	1269
3	3261

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL	R	Peak Name
1	7.164	11168	1239	0.008		BV		
2	7.393	7637	1009	0.005		VV		
3	7.656	570966	82532	0.397		VB		CL4XYL
4	8.363	11503	1134	0.008		BV		
5	8.654	12578	1995	0.009		VV		
6	8.854	49274	7484	0.034		VV		
7	9.195	227850	22132	0.158		VV		
8	9.506	55826	6517	0.039		VV		
9	9.763	373872	54736	0.260		VV		
10	10.136	112854	15803	0.078		VV		
11	10.291	60827	9770	0.042		VV		
12	10.404	65317	10450	0.045		VV		
13	10.580	233650	29992	0.162		VE		
14	10.840	12592	2032	0.009		EV		
15	11.022	3180	508	0.002		EV		
16	11.167	9022	1590	0.006		VB		

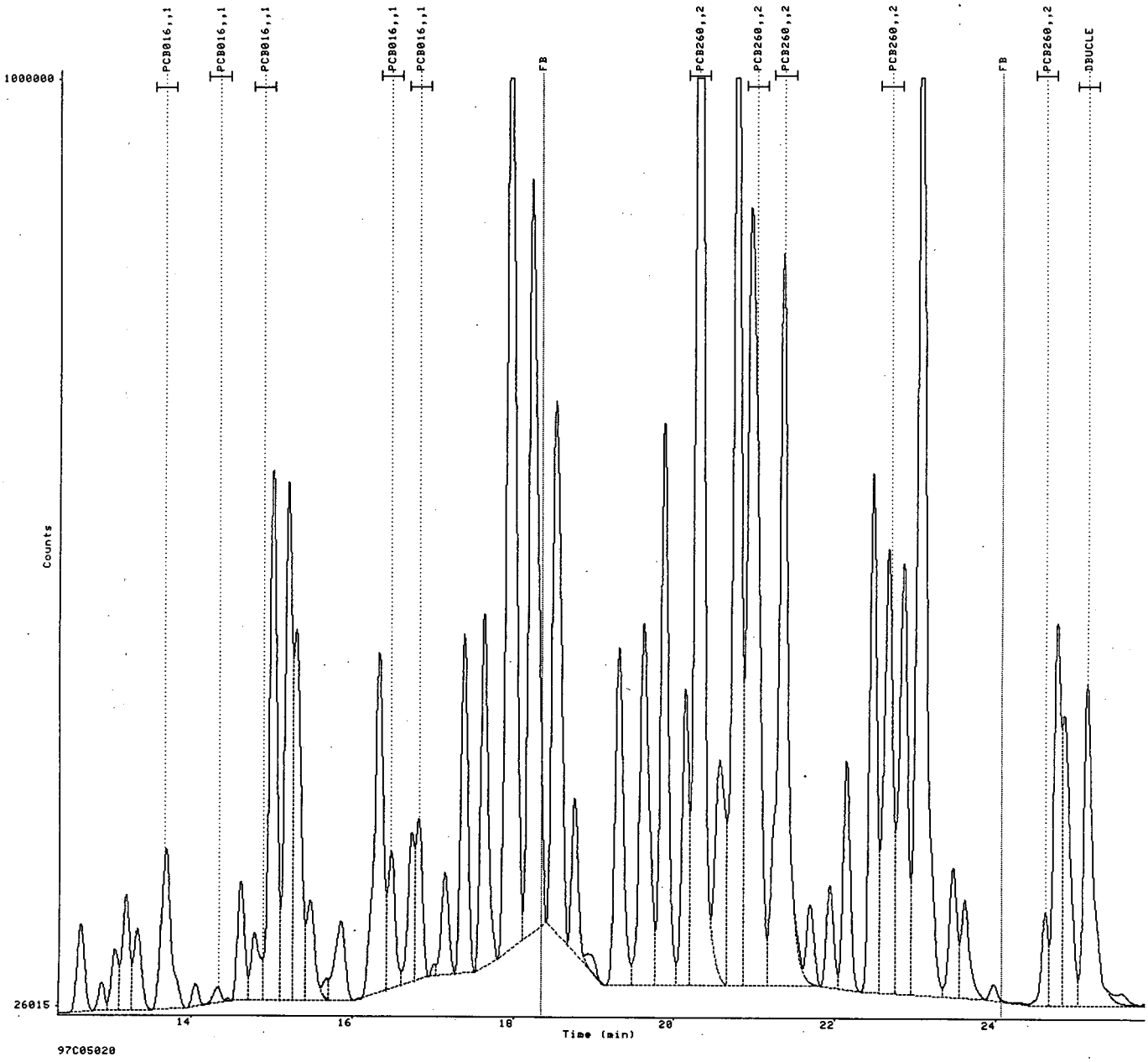
17	11.563	193714	22031	0.135	BV	
18	11.844	197794	23956	0.138	VV	
19	12.164	583083	81401	0.405	VE	
20	12.462	5861	1313	0.004	EV	
21	12.618	647820	94882	0.451	VV	
22	12.887	190844	32473	0.133	VV	
23	13.050	410444	67279	0.285	VV	
24	13.186	828119	125514	0.576	VV	
25	13.328	625197	89721	0.435	VV	
26	13.682	1569642	171803	1.092	VV	PCB016;1
27	14.056	213385	29760	0.148	VV	
28	14.333	247157	25755	0.172	VV	PCB016;2
29	14.461	64600	14143	0.045	VV	
30	14.617	937006	137379	0.652	VV	
31	14.789	670171	83381	0.466	VV	PCB016;3
32	15.008	3773181	566805	2.624	VV	
33	15.199	3550332	556445	2.469	VV	
34	15.298	2496257	401225	1.736	VV	
35	15.477	845893	116507	0.588	VV	
36	15.687	180373	33511	0.125	VV	
37	15.858	961898	94359	0.669	VE	
38	16.083	47998	11066	0.033	EV	
39	16.326	3097544	374535	2.154	VV	
40	16.482	1173258	166695	0.816	VV	PCB016;4
41	16.735	1145016	186858	0.796	VV	
42	16.820	1385298	200521	0.963	VE	PCB016;5
43	17.022	185163	45010	0.129	EV	
44	17.150	1186846	143562	0.825	VV	
45	17.381	2660990	392700	1.851	VV	
46	17.628	3134059	414403	2.179	VV	
47	17.953	8881186	998158	6.176	VV +	PCB254;1
48	18.222	7683526	862388	5.343	VV	
49	18.518	5491362	630565	3.819	VV	PCB254;2
50	18.757	1585869	219937	1.103	VV	
51	18.939	661709	57062	0.460	VV	
52	19.303	3017877	376886	2.099	VV	
53	19.612	3548634	401219	2.468	VV	PCB254;3
54	19.863	4220836	610447	2.935	VV	PCB254;4
55	20.132	2035472	332881	1.416	VV	
56	20.297	9050814	994544	6.294	VV +	PCB260;1
57	20.561	2411199	258288	1.677	VV	
58	20.766	7618936	991361	5.298	VV +	
59	20.945	8433050	825339	5.865	VV	PCB260;2
60	21.339	6947444	783576	4.831	VE	PCB260;3
61	21.683	862974	100607	0.600	EV	
62	21.929	909191	125799	0.632	VV	
63	22.132	1742582	254872	1.212	VV	
64	22.456	3569487	553985	2.482	VV	PCB254;5
65	22.650	3666721	475419	2.550	VV	PCB260;4
66	22.837	3401461	460942	2.365	VV	
67	23.053	8524247	993094	5.928	VV +	
68	23.457	1018945	142136	0.709	VV	
69	23.601	868833	109132	0.604	VE	
70	23.962	130203	18440	0.091	EB	
71	24.290	3995	842	0.003	BB	
72	24.602	562143	96765	0.391	BV	PCB260;5
73	24.750	2545942	398904	1.771	VV	
74	24.839	2002861	302532	1.393	VV	
75	25.128	2820496	333878	1.961	VE	DBUCLE
76	25.558	127246	10418	0.088	EV	

77	25.865	13024	2292	0.009	EB	
78	26.215	50557	4281	0.035	BV	
79	26.400	18055	2514	0.013	VV	
80	26.647	397676	42670	0.277	VV	
81	26.762	102299	24003	0.071	VV	
82	26.917	1265493	190150	0.880	VE	
83	27.261	106464	11547	0.074	EV	
84	27.509	43910	6026	0.031	EV	
85	27.738	1630387	190773	1.134	VE	
86	28.450	33633	2423	0.023	EV	
87	28.743	70479	10398	0.049	EV	
88	28.878	196689	23975	0.137	EV	
89	29.347	7138	719	0.005	VV	
90	29.498	2952	490	0.002	VB	
91	29.932	4331	445	0.003	BV	
92	30.220	5258	610	0.004	VB	
93	30.677	66563	7863	0.046	BE	
94	30.894	12422	1465	0.009	EB	
95	31.299	953	161	0.001	BB	
96	32.078	8964	777	0.006	BV	
97	32.544	362318	33460	0.252	VE	CL10BP
98	33.148	2614	341	0.002	EB	
99	33.462	22701	2438	0.016	BB	
Totals		143797180		100.000		

ANALYSIS NOTES

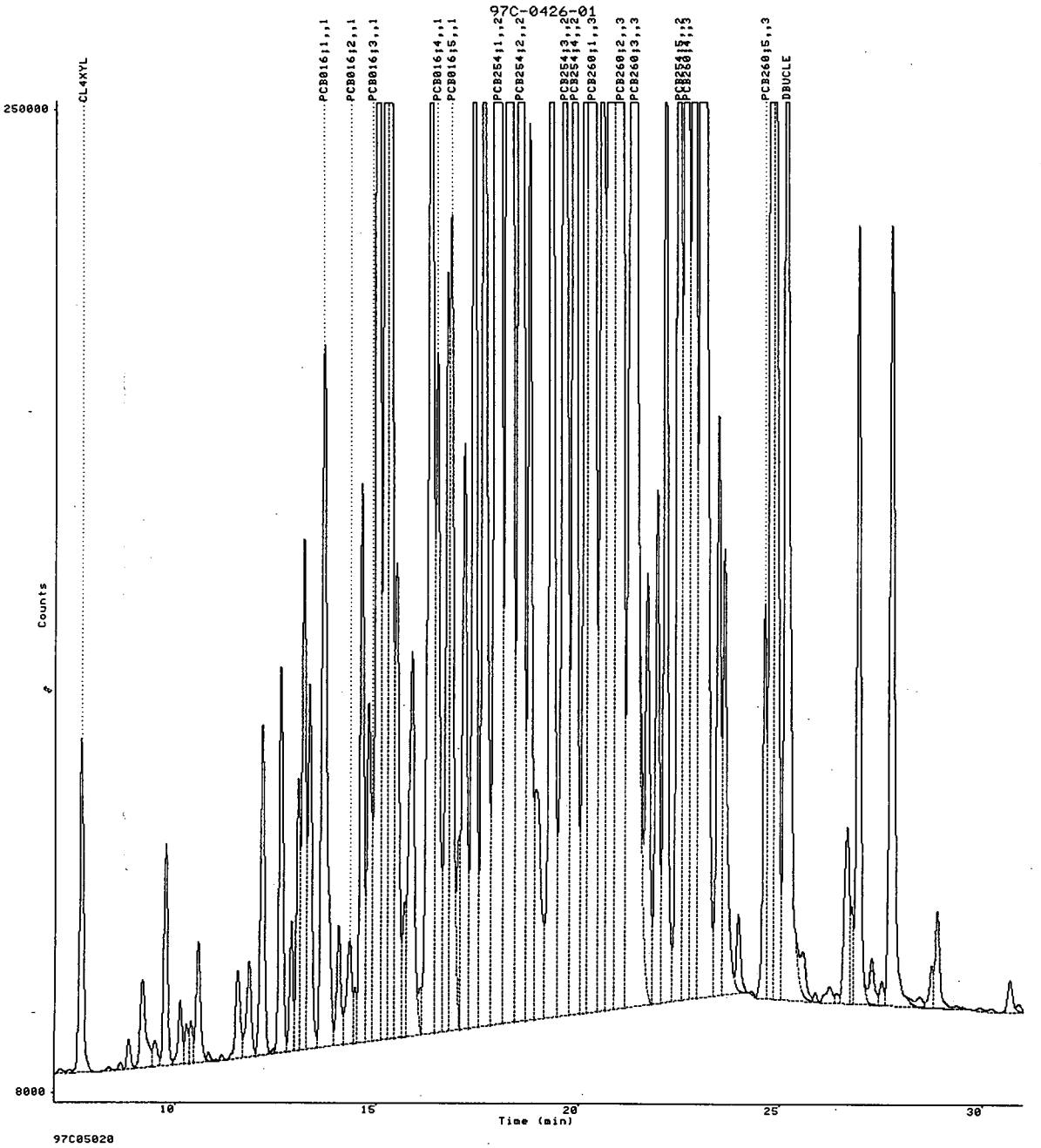
1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316030.RAW;1
Report: 1197248515
Acquired: 13-NOV-1997 10:15:13
Time range: 12.35-25.85



0270

Data file: DISK:[TAYLORC]5997316030.RAW;1
Report: 1197250763
Acquired: 13-NOV-1997 10:15:13
Time range: 7.00-31.00



0271

Date.....17-NOV-1997 17:46:48.29 User: TAYLORC
Report number.....1197250764
Raw file.....DISK:[TAYLORC]5997316031.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....6

Acq. date.....13-NOV-1997 10:52:36
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05022
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....	34.000 min	Delay time.....	7.000 min
Area reject.....	100 count(s)	No. peaks found.....	101
Noise threshold.....	10.0 microvolts	Area threshold.....	120
Start peak width....	6.00 sec(s)	Area/Pk.Ht.....	H
Min. window.....	8.00 sec	% window.....	0.00
Analysis type.....	EXTERNAL STANDARD	A/D range.....	1.0 volt(s)
Sample rack.....	25		
Sample vial.....	25		
Analysis fit.....	Quadratic	Origin treatment....	Ignore
Report units.....	UG/SAMPLE		
Sample amount.....	1.00000		
Volume injected.....	1.00000	Conversion factor...	3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.159			2025		BV	
	7.373			1520		VV	
CL4XYL	7.651	1.24	23.78	94270		VE	
	7.955			891		EB	
	8.352			1065		BB	
	8.649			1534		BB	
	8.851			5864		BV	
	9.156			18590		VV	

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	9.501				5628	VV	
	9.757				52221	VV	
	10.132				20297	VV	
	10.286				7679	VV	
	10.401				7832	VV	
	10.575				24409	VE	
	10.837				1845	EV	
	10.966				919	EV	
	11.162				872	VB	
	11.551				26704	BV	
	11.841				20170	VV	
	12.160				51987	VE	
	12.458				699	EV	
	12.617				73520	VV	
	12.883				30253	VV	
	13.050				52533	VV	
	13.181				118559	VV	
	13.324				63672	VV	
PCB016;1	13.679	-0.81	100.3		128715	VV	1
	14.049				27185	VV	
PCB016;2	14.326	0.99	36.37		19730	VV	1
	14.457				9055	VV	
	14.615				121938	VV	
PCB016;3	14.786	6.35	151.3	+	71457	VV	1
	15.006				542158	VV	
	15.198				510615	VV	
	15.293				354766	VV	
	15.474				94379	VV	
	15.682				30235	VV	
	15.853				89223	VE	
	16.079				7454	EV	
	16.325				357013	VV	
PCB016;4	16.479	-0.10	485.3	+	149479	VV	1
	16.734				162372	VV	
PCB016;5	16.817	0.87	351.5	+	171608	VV	1
	17.146				118860	VV	
	17.380				343317	VV	
	17.627				381301	VV	
PCB254;1	17.951	0.53			998663	VV	2
	18.221				857551	VV	
PCB254;2	18.519	-0.48			637436	VV	2
	18.756				202868	VV	
	18.950				53010	VV	
	19.302				364679	VV	
PCB254;3	19.611	0.14			388211	VV	2
PCB254;4	19.863	0.13			599590	VV	2
	20.131				324216	VV	
PCB260;1	20.295	-0.00	1070	+	989826	VV	3
	20.561				256106	VV	
	20.765				992126	VV	
PCB260;2	20.967	2.68	716.1	+	694680	VV	3
PCB260;3	21.338	1.18	596.9	+	819406	VE	3
	21.682				101895	EV	
	21.930				163321	VV	
	22.132				263000	VV	
PCB254;5	22.454	0.16			526494	VV	2
PCB260;4	22.649	0.43	637.9	+	494212	VV	3
	22.836				496277	VV	
	23.053				996288	VV	
	23.457				152246	VV	

	23.600				112051	VE	
	23.959				22227	EB	
	24.279				1844	BB	
PCB260;5	24.602	0.16	154.9	+	100278	BV	3
	24.749				413103	VV	
	24.841				304370	VV	
DBUCLE	25.127	0.09	93.58		348569	VB	
	25.565				9191	BB	
	25.868				3489	BB	
	26.215				4081	BV	
	26.408				2571	VV	
	26.650				47223	VV	
	26.762				29166	VV	
	26.917				206562	VE	
	27.260				11835	EV	
	27.510				4754	EV	
	27.737				154569	VB	
	28.452				1680	BB	
	28.745				10924	BV	
	28.880				27060	VB	
	29.329				346	BV	
	29.483				610	VB	
	29.671				280	BB	
	29.930				805	BV	
	30.200				560	VB	
	30.677				11064	BV	
	30.898				3011	VB	
	31.294				393	BB	
	32.076				903	BV	
CL10BP	32.545	2.21			36393	VE	
	33.143				282	EB	
	33.456				5564	BV	
	33.648				2797	VB	

GROUP REPORT

Group	UG/SAMPLE
1	1125
3	3175

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL R	Peak Name
1	7.159	19178	2025	0.014		BV	
2	7.373	10901	1520	0.008		VV	
3	7.651	618271	94270	0.445		VE	CL4XYL
4	7.955	7745	891	0.006		EB	
5	8.352	11284	1065	0.008		BB	
6	8.649	8425	1534	0.006		BB	
7	8.851	37657	5864	0.027		BV	
8	9.156	188346	18590	0.135		VV	
9	9.501	43065	5628	0.031		VV	
10	9.757	352248	52221	0.253		VV	
11	10.132	132444	20297	0.095		VV	
12	10.286	46695	7679	0.034		VV	
13	10.401	47547	7832	0.034		VV	

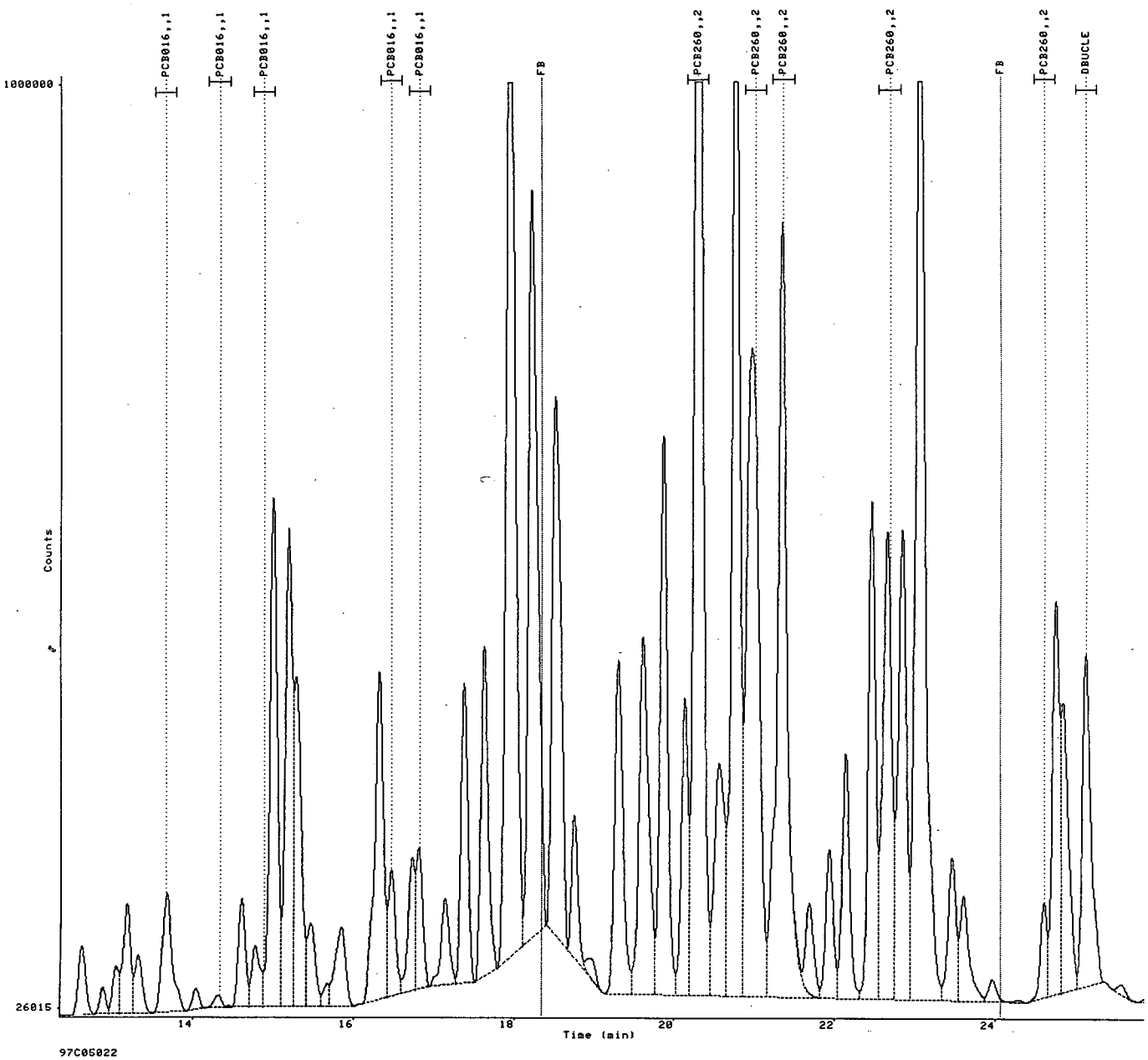
14	10.575	187348	24409	0.135	VE	
15	10.837	11183	1845	0.008	EV	
16	10.966	6244	919	0.004	EV	
17	11.162	4641	872	0.003	VB	
18	11.551	240626	26704	0.173	BV	
19	11.841	172655	20170	0.124	VV	
20	12.160	384430	51987	0.277	VE	
21	12.458	2762	699	0.002	EV	
22	12.617	496404	73520	0.357	VV	
23	12.883	172784	30253	0.124	VV	
24	13.050	298837	52533	0.215	VV	
25	13.181	803758	118559	0.578	VV	
26	13.324	428344	63672	0.308	VV	
27	13.679	1164254	128715	0.838	VV	PCB016;1
28	14.049	204530	27185	0.147	VV	
29	14.326	194716	19730	0.140	VV	PCB016;2
30	14.457	38412	9055	0.028	VV	
31	14.615	819742	121938	0.590	VV	
32	14.786	560510	71457	0.403	VV	PCB016;3
33	15.006	3551463	542158	2.555	VV	
34	15.198	3331713	510615	2.397	VV	
35	15.293	2082441	354766	1.498	VV	
36	15.474	683354	94379	0.492	VV	
37	15.682	160867	30235	0.116	VV	
38	15.853	888273	89223	0.639	VE	
39	16.079	32258	7454	0.023	EV	
40	16.325	2888798	357013	2.078	VV	
41	16.479	998602	149479	0.718	VV	PCB016;4
42	16.734	1015976	162372	0.731	VV	
43	16.817	1111860	171608	0.800	VV	PCB016;5
44	17.146	1169187	118860	0.841	VV	
45	17.380	2289748	343317	1.647	VV	
46	17.627	2810135	381301	2.022	VV	
47	17.951	9161955	998663	6.591	VV +	PCB254;1
48	18.221	7620177	857551	5.482	VV	
49	18.519	5605810	637436	4.033	VV	PCB254;2
50	18.756	1442193	202868	1.038	VV	
51	18.950	568712	53010	0.409	VV	
52	19.302	2860695	364679	2.058	VV	
53	19.611	3431332	388211	2.469	VV	PCB254;3
54	19.863	4039297	599590	2.906	VV	PCB254;4
55	20.131	1927063	324216	1.386	VV	
56	20.295	9105419	989826	6.551	VV +	PCB260;1
57	20.561	2376142	256106	1.709	VV	
58	20.765	7592436	992126	5.462	VV +	
59	20.967	7447486	694680	5.358	VV	PCB260;2
60	21.338	7184216	819406	5.168	VE	PCB260;3
61	21.682	808338	101895	0.582	EV	
62	21.930	1142995	163321	0.822	VV	
63	22.132	1781458	263000	1.282	VV	
64	22.454	3419325	526494	2.460	VV	PCB254;5
65	22.649	3852723	494212	2.772	VV	PCB260;4
66	22.836	3625034	496277	2.608	VV	
67	23.053	8887868	996288	6.394	VV +	
68	23.457	1094863	152246	0.788	VV	
69	23.600	911092	112051	0.655	VE	
70	23.959	150723	22227	0.108	EB	
71	24.279	12035	1844	0.009	BB	
72	24.602	572663	100278	0.412	BV	PCB260;5
73	24.749	2630793	413103	1.893	VV	

74	24.841	1938750	304370	1.395	VV	
75	25.127	2638158	348569	1.898	VB	DBUCLE
76	25.565	60121	9191	0.043	BB	
77	25.868	17860	3489	0.013	BB	
78	26.215	45705	4081	0.033	BV	
79	26.408	18998	2571	0.014	VV	
80	26.650	438287	47223	0.315	VV	
81	26.762	133486	29166	0.096	VV	
82	26.917	1393179	206562	1.002	VE	
83	27.260	102765	11835	0.074	EV	
84	27.510	32051	4754	0.023	EV	
85	27.737	1260148	154569	0.907	VB	
86	28.452	11770	1680	0.008	BB	
87	28.745	64986	10924	0.047	BV	
88	28.880	206851	27060	0.149	VB	
89	29.329	1974	346	0.001	BV	
90	29.483	3522	610	0.003	VB	
91	29.671	1644	280	0.001	BB	
92	29.930	10524	805	0.008	BV	
93	30.200	4002	560	0.003	VB	
94	30.677	91034	11064	0.065	BV	
95	30.898	28645	3011	0.021	VB	
96	31.294	2626	393	0.002	BB	
97	32.076	10707	903	0.008	BV	
98	32.545	410261	36393	0.295	VE	CL10BP
99	33.143	2088	282	0.002	EB	
100	33.456	62191	5564	0.045	BV	
101	33.648	25548	2797	0.018	VB	
Totals		139001385		100.000		

ANALYSIS NOTES

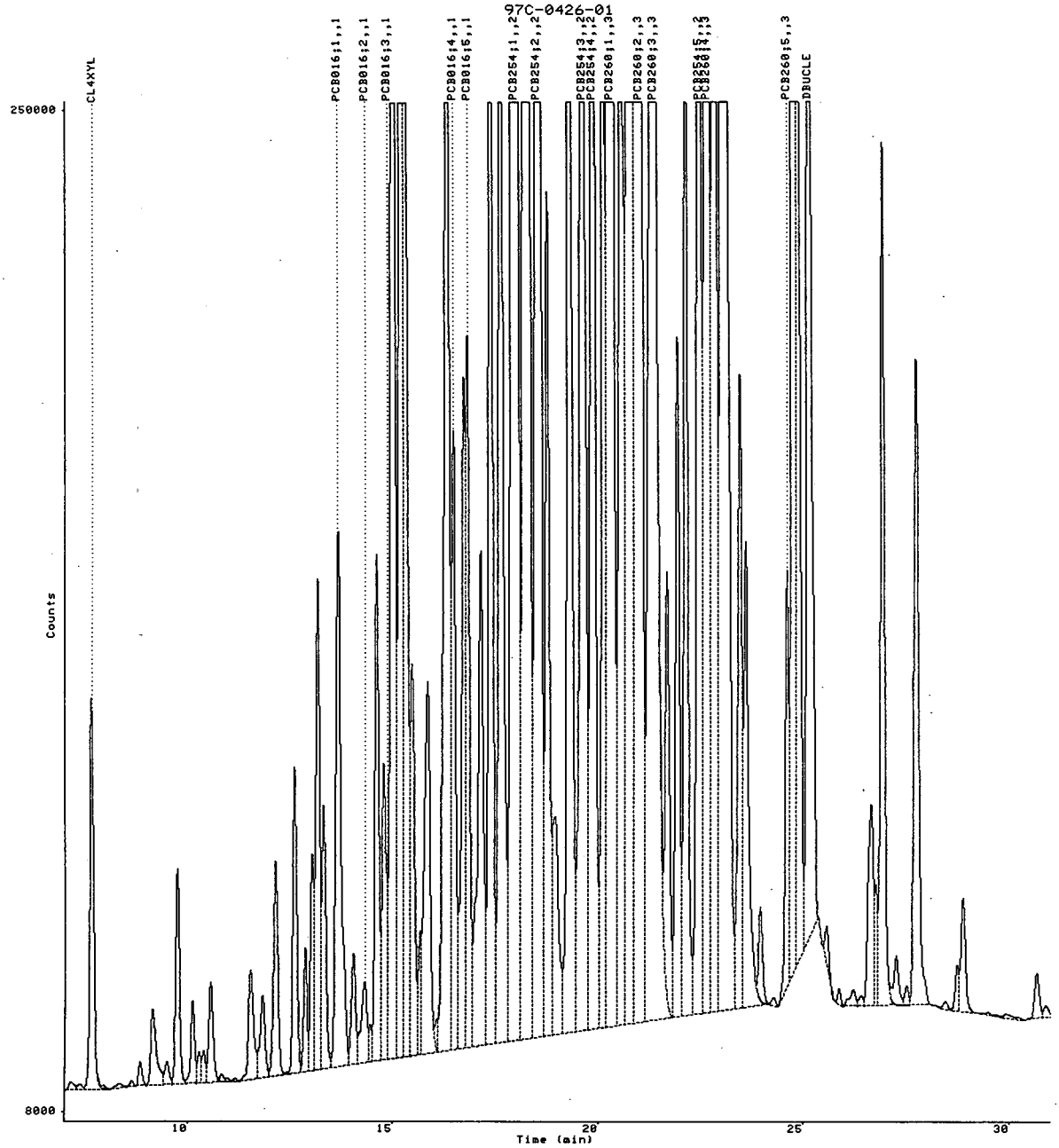
1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316031.RAW;1
Report: 1197248516
Acquired: 13-NOV-1997 10:52:36
Time range: 12.35-25.85



0277

Data file: DISK:[TAYLORC]5997316031.RAW;1
Report: 1197250764
Acquired: 13-NOV-1997 10:52:36
Time range: 7.00-31.00



97C05022

0278

Date.....17-NOV-1997 17:47:01.60 User: TAYLORC
Report number.....1197250765
Raw file.....DISK:[TAYLORC]5997316032.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....6

Acq. date.....13-NOV-1997 11:29:55
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05023
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....87
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.243			623		BB	
CL4XYL	7.648	1.45	30.51	120774		BE	
	7.953			438		EB	
	8.242			270		BB	
	8.500			133		BB	
	8.832			142		BB	
	9.149			10476		BV	
	9.725			2915		VV	

0279

	10.032				827	VV	
	10.145				916	VV	
	10.413				937	VV	
	10.574				1095	VV	
	10.808				512	VV	
	10.967				441	VV	
	11.160				266	VB	
	11.351				230	BV	
	11.562				1472	VV	
	11.822				778	VV	
	12.159				1948	VB	
	12.616				1512	BV	
	12.882				652	VV	
	13.046				1141	VV	
	13.185				2852	VV	
	13.324				1636	VB	
PCB016;1	13.677	-0.65	2.633		3407	BV	1
	13.988				1841	VV	
PCB016;2	14.338	0.26	0.8582	-	502	VV	1
	14.467				244	VV	
	14.614				2882	VV	
PCB016;3	14.786	6.34	5.217		1724	VV	1
	15.007				18586	VV	
	15.197				15601	VV	
	15.296				9551	VV	
	15.466				26297	VE	
	15.845				4328	EV	
	16.326				11969	VV	
PCB016;4	16.480	-0.18	28.46		5795	VV	1
	16.736				5975	VV	
PCB016;5	16.819	0.78	23.14		6882	VV	1
	17.151				5644	VV	
	17.381				13025	VV	
	17.628				13149	VV	
PCB254;1	17.953	0.45	43.06		38973	VV	2
	18.220				32630	VV	
PCB254;2	18.514	-0.18	61.04		23956	VV	2
	18.754				10514	VV	
	18.970				7060	VV	
	19.302				16676	VV	
PCB254;3	19.610	0.21	47.82		17548	VV	2
PCB254;4	19.862	0.20	35.40		22922	VV	2
	20.130				14786	VV	
PCB260;1	20.295	-0.01	96.23		58128	VE	3
	20.567				13134	EV	
	20.769				41264	VV	
PCB260;2	20.921	5.46	361.8	+	343083	VE	3
PCB260;3	21.337	1.23	25.08		26255	EV	3
	21.677				5371	VV	
	21.925				4661	VV	
	22.128				8054	VV	
PCB254;5	22.457	0.03	32.53		13031	VV	2
PCB260;4	22.648	0.47	22.70		13555	VV	3
	22.836				12594	VV	
	23.053				30641	VE	
	23.452				3137	EV	
	23.594				2206	EB	
	23.959				245	BB	
	24.239				241	BB	
PCB260;5	24.597	0.47	3.675		1834	BV	3

	24.747			8612	VV
	24.845			5625	VV
DBUCLE	25.102	1.62	19.76	66003	VB
	25.818			309	BB
	26.155			354	BB
	26.768			3382	BV
	26.917			7106	VV
	27.351			2857	VV
	27.732			9191	VE
	27.940			396	EB
	28.864			342	BB
	29.266			385	BB
	30.113			599	BB
	30.675			1038	BE
	30.940			65	EB
	31.828			79	BB
	32.211			406	BV
CL10BP	32.538	2.63		47452	VB
	33.754			1456	BB

GROUP REPORT

Group	UG/SAMPLE
1	60.31
2	219.9
3	509.5

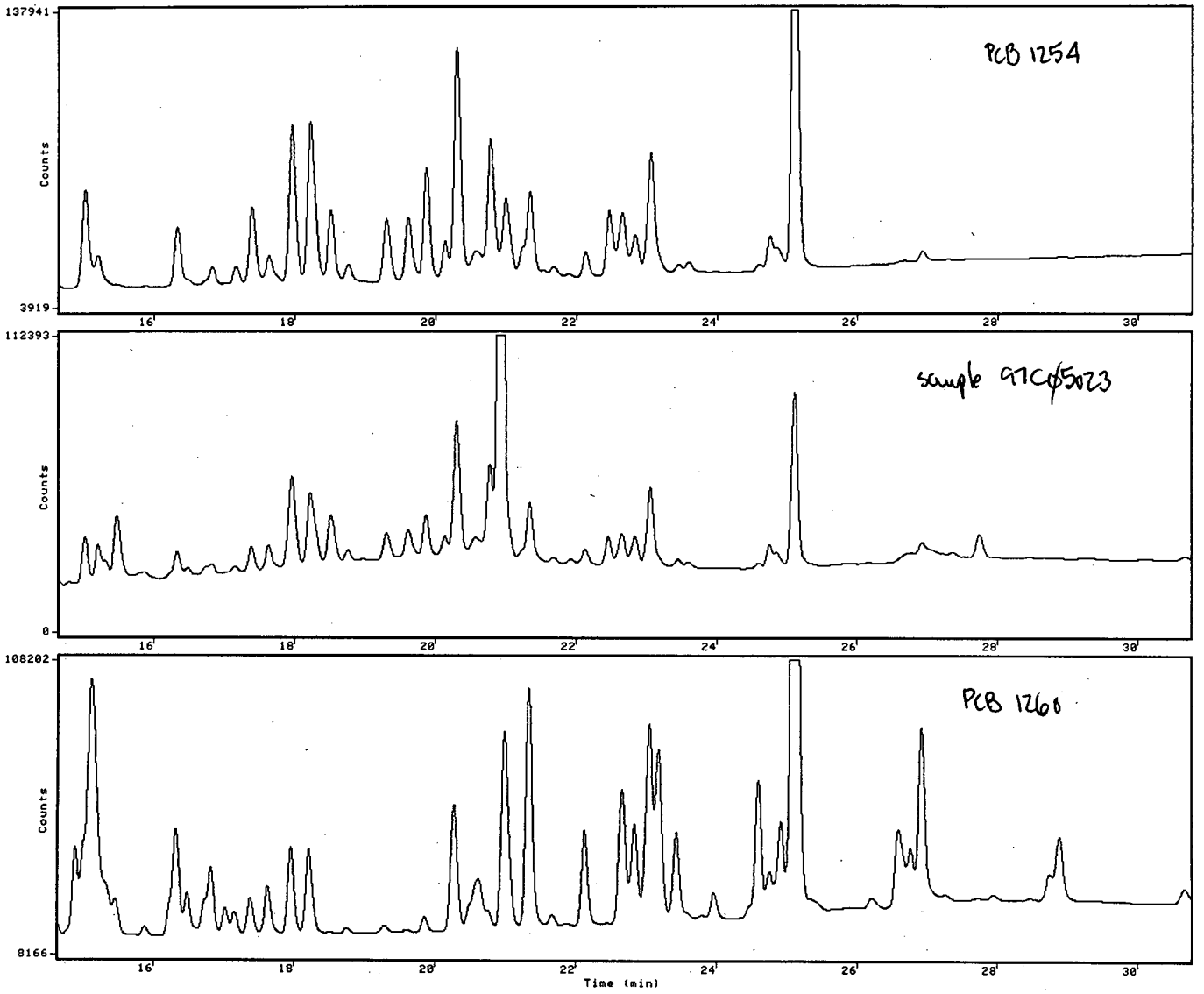
ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

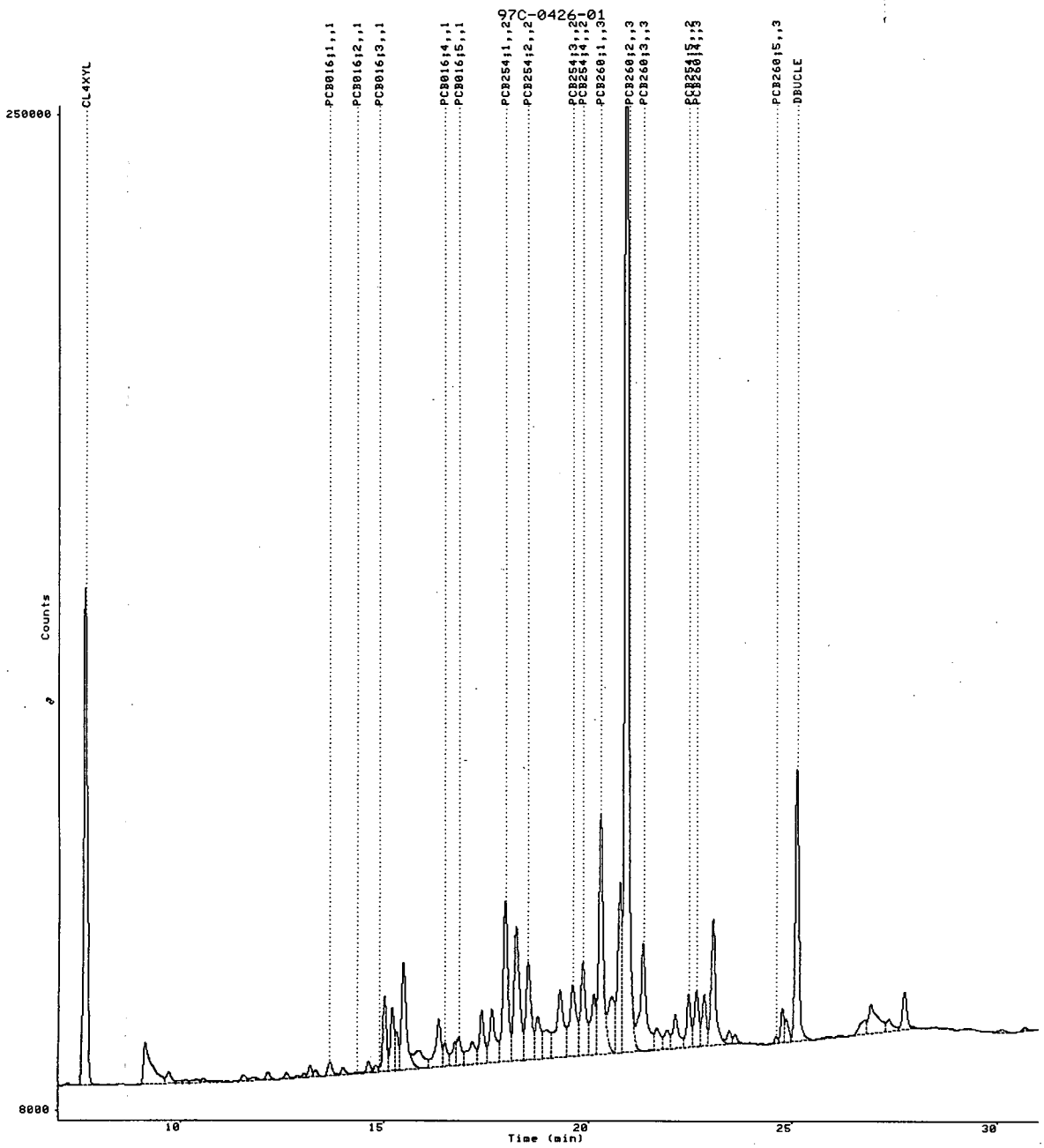
Date: 18-NOV-1997 08:49:31.22

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316007	14.62	30.78	3919	137941	1
5997316032	14.62	30.78	0	112393	1
5997316034	14.62	30.78	8166	108202	1

PCB 1254 match



Data file: DISK:[TAYLORC]5997316032.RAW;1
Report: 1197250765
Acquired: 13-NOV-1997 11:29:55
Time range: 7.00-31.00



97C05023

0283

Date.....17-NOV-1997 17:47:14.68 User: TAYLORC
Report number.....1197250766
Raw file.....DISK:[TAYLORC]5997316033.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 12:07:18
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05024
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.000 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....101
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.145			400		BB	
	7.376			487		BV	
CL4XYL	7.647	1.52	27.27	107999		VB	
	8.348			408		BB	
	8.642			1759		BB	
	8.844			6754		BV	
	9.144			7492		VV	
	9.495			2868		VV	

0284

	9.752				37239	VV	
	10.126				9920	VV	
	10.290				3751	VV	
	10.389				4123	VV	
	10.570				11655	VE	
	10.830				779	EV	
	10.966				329	EV	
	11.148				226	VB	
	11.359				1674	BV	
	11.548				11192	VV	
	11.835				9500	VV	
	12.154				22858	VB	
	12.612				32511	BV	
	12.875				17357	VV	
	13.047				20678	VV	
	13.177				38955	VV	
	13.321				23600	VV	
PCB016;1	13.674	-0.51	43.66		55739	VV	1
	14.045				12862	VV	
PCB016;2	14.313	1.77	16.08		8689	VV	1
	14.450				2661	VV	
	14.609				58510	VV	
	14.781				32569	VV	
PCB016;3	15.000	-6.49	412.3	+	281202	VV	1
	15.192				250989	VV	
	15.289				177025	VE	
	15.484				25877	EV	
	15.679				15019	VV	
	15.846				46608	VE	
	16.073				2297	EV	
	16.319				179210	VV	
PCB016;4	16.474	0.20	277.8	+	72433	VV	1
	16.729				74980	VV	
PCB016;5	16.812	1.23	196.3	+	78233	VV	1
	17.136				55903	VV	
	17.374				177795	VV	
	17.623				191257	VV	
PCB254;1	17.944	0.96			727688	VV	2
	18.214				555859	VV	
PCB254;2	18.518	-0.39			425140	VE	2
	18.750				89297	EV	
	18.974				22257	EV	
	19.296				209683	VV	
PCB254;3	19.603	0.61			244504	VV	2
PCB254;4	19.856	0.52			391954	VV	2
	20.125				208207	VV	
PCB260;1	20.289	0.34	1079	+	1002249	VE	3
	20.557				148460	EV	
	20.758				727413	VV	
PCB260;2	20.988	1.45	443.8	+	423113	VV	3
PCB260;3	21.332	1.54	428.0	+	547326	VE	3
	21.677				62120	EV	
	21.924				91621	VV	
	22.125				174688	VV	
PCB254;5	22.448	0.52			328881	VV	2
PCB260;4	22.643	0.78	460.4	+	333100	VV	3
	22.830				325391	VV	
	23.046				801951	VE	
	23.450				99305	EV	
	23.595				75772	EV	

	23.947			19447	VB	
	24.276			1483	BV	
PCB260;5	24.595	0.58	113.3	70445	VV	3
	24.744			292447	VV	
	24.833			205999	VV	
DBUCLE	25.118	0.68	72.02	261295	VE	
	25.372			9039	EV	
	25.570			17989	EV	
	25.859			6830	VV	
	26.056			3179	VV	
	26.205			3857	VV	
	26.419			3892	VV	
	26.643			34184	VV	
	26.759			23809	VV	
	26.911			147829	VE	
	27.237			13835	EV	
	27.496			7229	EV	
	27.729			131173	VE	
	28.096			2269	EV	
	28.440			2461	EV	
	28.734			8003	VV	
	28.870			17535	VE	
	29.327			821	EB	
	29.657			353	BB	
	29.952			341	BB	
	30.667			6521	BE	
	30.884			803	EB	
	31.285			242	BB	
	32.057			654	BV	
CL10BP	32.534	2.87		39392	VE	
	33.141			199	EB	
	33.446			3629	BV	
	33.641			1839	VB	

GROUP REPORT

Group	UG/SAMPLE
1	946.1
3	2525

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL R	Peak Name
1	7.145	2308	400	0.003		BB	
2	7.376	2540	487	0.003		BV	
3	7.647	642887	107999	0.735		VB	CL4XYL
4	8.348	3125	408	0.004		BB	
5	8.642	9467	1759	0.011		BB	
6	8.844	42149	6754	0.048		BV	
7	9.144	68568	7492	0.078		VV	
8	9.495	19365	2868	0.022		VV	
9	9.752	226421	37239	0.259		VV	
10	10.126	62453	9920	0.071		VV	
11	10.290	22358	3751	0.026		VV	
12	10.389	25683	4123	0.029		VV	
13	10.570	84636	11655	0.097		VE	

14	10.830	4490	779	0.005	EV	
15	10.966	2197	329	0.003	EV	
16	11.148	1101	226	0.001	VB	
17	11.359	11325	1674	0.013	BV	
18	11.548	97964	11192	0.112	VV	
19	11.835	78109	9500	0.089	VV	
20	12.154	165870	22858	0.190	VB	
21	12.612	212468	32511	0.243	BV	
22	12.875	94982	17357	0.109	VV	
23	13.047	123641	20678	0.141	VV	
24	13.177	255670	38955	0.292	VV	
25	13.321	154209	23600	0.176	VV	
26	13.674	492718	55739	0.563	VV	PCB016;1
27	14.045	83748	12862	0.096	VV	
28	14.313	83324	8689	0.095	VV	PCB016;2
29	14.450	10668	2661	0.012	VV	
30	14.609	378254	58510	0.432	VV	
31	14.781	245638	32569	0.281	VV	
32	15.000	1822623	281202	2.083	VV	PCB016;3
33	15.192	1610445	250989	1.841	VV	
34	15.289	1081737	177025	1.236	VE	
35	15.484	163663	25877	0.187	EV	
36	15.679	77798	15019	0.089	VV	
37	15.846	434832	46608	0.497	VE	
38	16.073	9320	2297	0.011	EV	
39	16.319	1409001	179210	1.610	VV	
40	16.474	472282	72433	0.540	VV	PCB016;4
41	16.729	466051	74980	0.533	VV	
42	16.812	481543	78233	0.550	VV	PCB016;5
43	17.136	518066	55903	0.592	VV	
44	17.374	1144260	177795	1.308	VV	
45	17.623	1380990	191257	1.578	VV	
46	17.944	6305354	727688	7.206	VV	PCB254;1
47	18.214	4886998	555859	5.585	VV	
48	18.518	3882273	425140	4.437	VE	PCB254;2
49	18.750	561747	89297	0.642	EV	
50	18.974	182551	22257	0.209	EV	
51	19.296	1569374	209683	1.794	VV	
52	19.603	2042821	244504	2.335	VV	PCB254;3
53	19.856	2564365	391954	2.931	VV	PCB254;4
54	20.125	1213880	208207	1.387	VV	
55	20.289	7353460	1002249	8.404	VE +	PCB260;1
56	20.557	1260553	148460	1.441	EV	
57	20.758	5043801	727413	5.764	VV	
58	20.988	3951977	423113	4.517	VV	PCB260;2
59	21.332	4781393	547326	5.464	VE	PCB260;3
60	21.677	428827	62120	0.490	EV	
61	21.924	646106	91621	0.738	VV	
62	22.125	1149203	174688	1.313	VV	
63	22.448	2108795	328881	2.410	VV	PCB254;5
64	22.643	2549145	333100	2.913	VV	PCB260;4
65	22.830	2368777	325391	2.707	VV	
66	23.046	6374958	801951	7.286	VE	
67	23.450	682529	99305	0.780	EV	
68	23.595	638173	75772	0.729	EV	
69	23.947	137656	19447	0.157	VB	
70	24.276	10972	1483	0.013	BV	
71	24.595	414652	70445	0.474	VV	PCB260;5
72	24.744	1921988	292447	2.197	VV	
73	24.833	1291061	205999	1.476	VV	

74	25.118	2201077	261295	2.516	VE	DBUCLE
75	25.372	74369	9039	0.085	EV	
76	25.570	172668	17989	0.197	EV	
77	25.859	46613	6830	0.053	VV	
78	26.056	21710	3179	0.025	VV	
79	26.205	37052	3857	0.042	VV	
80	26.419	30520	3892	0.035	VV	
81	26.643	327668	34184	0.374	VV	
82	26.759	108870	23809	0.124	VV	
83	26.911	1189160	147829	1.359	VE	
84	27.237	186349	13835	0.213	EV	
85	27.496	57286	7229	0.065	EV	
86	27.729	1110807	131173	1.269	VE	
87	28.096	40301	2269	0.046	EV	
88	28.440	27716	2461	0.032	EV	
89	28.734	64134	8003	0.073	VV	
90	28.870	144367	17535	0.165	VE	
91	29.327	7454	821	0.009	EB	
92	29.657	2394	353	0.003	BB	
93	29.952	2754	341	0.003	BB	
94	30.667	56656	6521	0.065	BE	
95	30.884	6930	803	0.008	EB	
96	31.285	1756	242	0.002	BB	
97	32.057	7569	654	0.009	BV	
98	32.534	410275	39392	0.469	VE	CL10BP
99	33.141	1439	199	0.002	EB	
100	33.446	40568	3629	0.046	BV	
101	33.641	16809	1839	0.019	VB	
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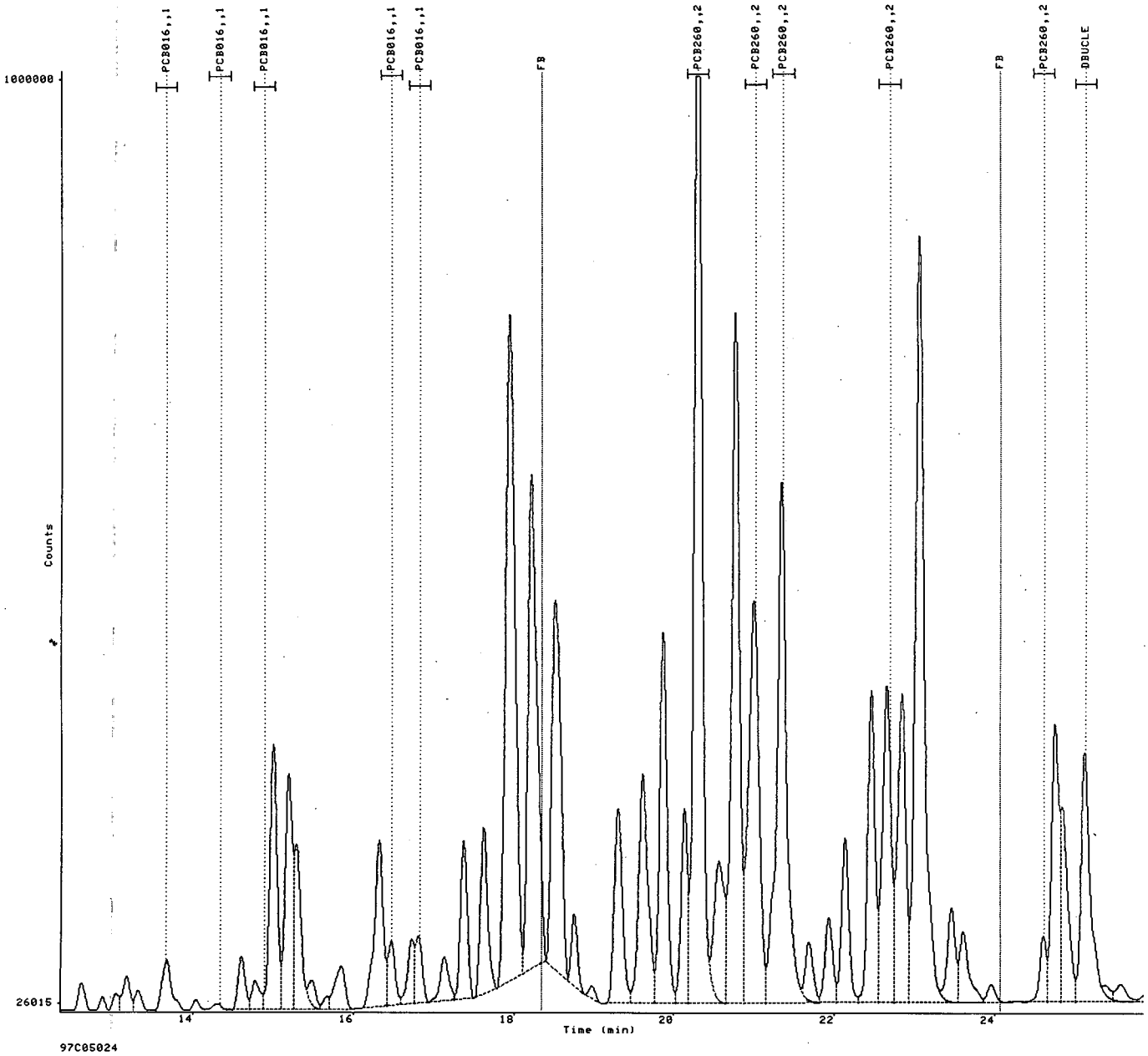
Totals		87499607		100.000		

ANALYSIS NOTES

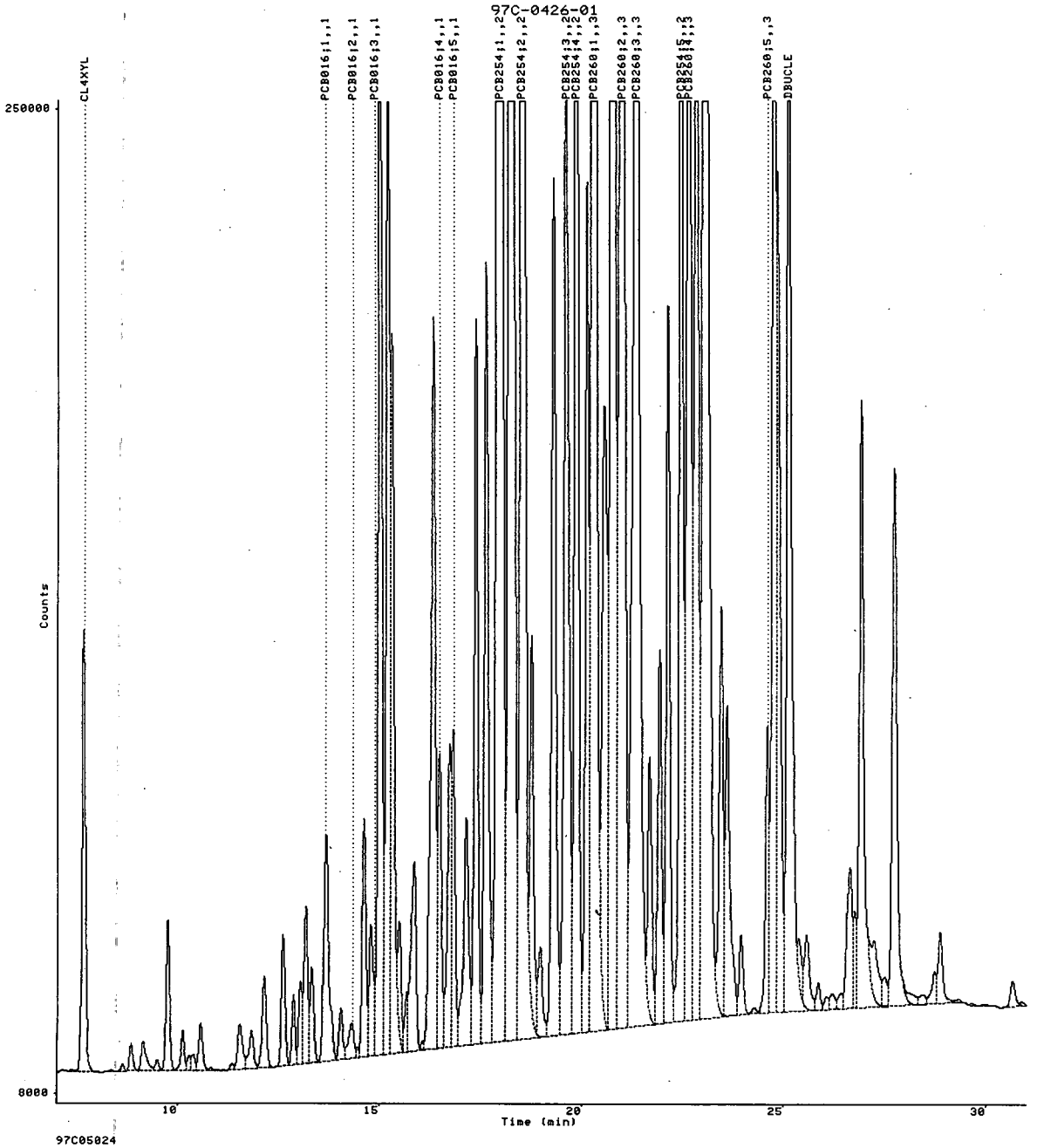
1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316033.RAW;1
Report: 1197248518
Acquired: 13-NOV-1997 12:07:18
Time range: 12.35-25.85



0289

Data file: DISK:[TAYLORC]5997316033.RAW;1
Report: 1197250766
Acquired: 13-NOV-1997 12:07:18
Time range: 7.00-31.00



0290

Date.....17-NOV-1997 17:47:42.62 User: TAYLORC
Report number.....1197250768
Raw file.....DISK:[TAYLORC]5997316035.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 13:22:03
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05025
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.000 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....104
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.147			1159		BV	
	7.375			1498		VV	
CL4XYL	7.645	1.60	24.54	97271		VB	
	7.948			572		EB	
	8.255			945		BV	
	8.330			819		VB	
	8.642			2315		BB	
	8.843			9382		BV	

9291

	9.138				12127	VV	
	9.515				7879	VV	
	9.750				62784	VV	
	10.125				11859	VV	
	10.287				5398	VV	
	10.392				5982	VV	
	10.568				18156	VE	
	10.830				1356	EV	
	10.969				446	EV	
	11.150				303	VB	
	11.538				24214	BV	
	11.828				8404	VV	
	12.152				31600	VB	
	12.475				1762	BV	
	12.621				21286	VV	
	12.876				36934	VV	
	13.173				46529	VV	
	13.326				32637	VV	
PCB016;1	13.672	-0.35	57.94		74059	VV	1
	14.043				13543	VV	
PCB016;2	14.302	2.39	24.24		13110	VV	1
	14.450				3297	VV	
	14.606				56836	VV	
	14.784				30242	VV	
PCB016;3	14.866	1.56	65.42		26300	VV	1
	14.998				297262	VV	
	15.191				305440	VE	
	15.484				38365	EV	
	15.680				29473	EV	
	15.839				75695	VE	
	16.072				4413	EV	
	16.317				156518	VV	
PCB016;4	16.464	0.76	264.1	+	68051	VV	1
	16.724				70305	VV	
PCB016;5	16.806	1.59	173.2	+	66681	VV	1
	17.131				82139	VV	
	17.372				205419	VV	
	17.622				221497	VV	
PCB254;1	17.944	0.94			1000606	VV	2
	18.213				849408	VV	
PCB254;2	18.521	-0.57			693372	VE	2
	18.748				102410	EV	
	18.976				53367	EV	
	19.292				315363	VV	
PCB254;3	19.598	0.90			331348	VV	2
PCB254;4	19.855	0.60			588107	VV	2
	20.122				321275	VV	
PCB260;1	20.288	0.40	1074	+	995467	VE	3
	20.558				227125	EV	
	20.755				985867	VV	
PCB260;2	20.986	1.59	701.8	+	680148	VV	3
PCB260;3	21.331	1.62	632.1	+	880087	VE	3
	21.674				101847	EV	
	21.924				214368	VV	
	22.123				285741	VV	
PCB254;5	22.445	0.75			478347	VV	
PCB260;4	22.640	0.93	670.3	+	525601	VV	3
	22.828				513646	VV	
	23.046				994747	VV	
	23.448				164518	VV	

	23.595				133587	VV	
	23.944				40073	VB	
	24.279				10495	BV	
PCB260;5	24.593	0.70	180.6	+	119761	VV	3
	24.742				460825	VV	
	24.830				310836	VV	
DBUCLE	25.117	0.73	105.4		398272	VE	
	25.378				26747	EV	
	25.571				40039	EV	
	25.859				14342	VV	
	26.049				5016	VV	
	26.208				5965	VV	
	26.432				4549	VV	
	26.638				54371	VV	
	26.757				38339	VV	
	26.908				231207	VE	
	27.235				18752	EV	
	27.494				8650	EV	
	27.727				104562	VE	
	28.103				2181	EV	
	28.437				3482	EV	
	28.732				13780	VV	
	28.869				31245	VE	
	29.324				1721	EV	
	29.655				1275	EB	
	29.929				472	BB	
	30.174				128	BB	
	30.665				11105	BE	
	30.876				1204	EB	
	31.293				737	BB	
	32.049				1722	BV	
CL10BP	32.530	3.12			36462	VE	
	32.737				2144	EV	
	33.145				447	EB	
	33.438				4423	BV	
	33.645				2091	VB	

GROUP REPORT

Group	UG/SAMPLE
1	584.9
3	3259

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL	R	Peak Name
1	7.147	9447	1159	0.007		BV		
2	7.375	11027	1498	0.009		VV		
3	7.645	608641	97271	0.474		VE		CL4XYL
4	7.948	5224	572	0.004		EB		
5	8.255	4665	945	0.004		BV		
6	8.330	4688	819	0.004		VB		
7	8.642	12319	2315	0.010		BB		
8	8.843	60057	9382	0.047		BV		
9	9.138	114665	12127	0.089		VV		
10	9.515	54612	7879	0.043		VV		

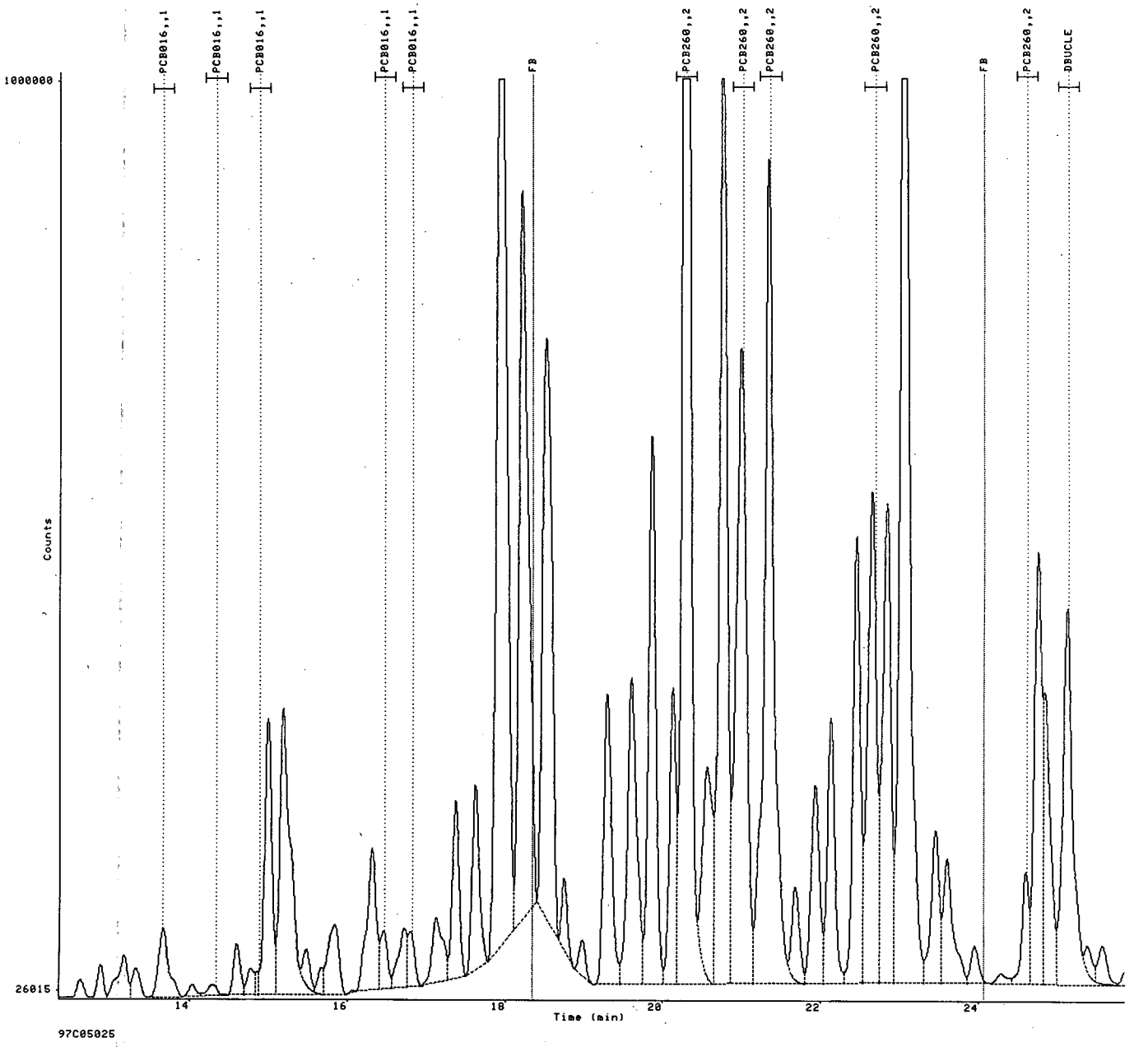
11	9.750	403019	62784	0.314	VV	
12	10.125	78231	11859	0.061	VV	
13	10.287	32778	5398	0.026	VV	
14	10.392	37501	5982	0.029	VV	
15	10.568	134406	18156	0.105	VE	
16	10.830	7687	1356	0.006	EV	
17	10.969	2757	446	0.002	EV	
18	11.150	1519	303	0.001	VB	
19	11.538	238252	24214	0.185	BV	
20	11.828	71946	8404	0.056	VV	
21	12.152	241748	31600	0.188	VB	
22	12.475	7519	1762	0.006	BV	
23	12.621	146493	21286	0.114	VV	
24	12.876	208492	36934	0.162	VV	
25	13.173	433156	46529	0.337	VV	
26	13.326	231934	32637	0.181	VV	
27	13.672	686892	74059	0.535	VV	PCB016;1
28	14.043	96704	13543	0.075	VV	
29	14.302	122619	13110	0.095	VV	PCB016;2
30	14.450	13299	3297	0.010	VV	
31	14.606	361638	56836	0.281	VV	
32	14.784	190480	30242	0.148	VV	
33	14.866	70772	26300	0.055	VV	PCB016;3
34	14.998	1929878	297262	1.502	VV	
35	15.191	2981711	305440	2.321	VE	
36	15.484	234890	38365	0.183	EV	
37	15.680	138967	29473	0.108	EV	
38	15.839	743864	75695	0.579	VE	
39	16.072	19071	4413	0.015	EV	
40	16.317	1331955	156518	1.037	VV	
41	16.464	441940	68051	0.344	VV	PCB016;4
42	16.724	581272	70305	0.452	VV	
43	16.806	401210	66681	0.312	VV	PCB016;5
44	17.131	899508	82139	0.700	VV	
45	17.372	1371197	205419	1.067	VV	
46	17.622	1683563	221497	1.310	VV	
47	17.944	10067565	1000606	7.836	VV +	PCB254;1
48	18.213	7825273	849408	6.091	VV	
49	18.521	6580886	693372	5.122	VE	PCB254;2
50	18.748	660835	102410	0.514	EV	
51	18.976	425877	53367	0.331	EV	
52	19.292	2341523	315363	1.823	VV	
53	19.598	2815504	331348	2.191	VV	PCB254;3
54	19.855	3850890	588107	2.997	VV	PCB254;4
55	20.122	1871441	321275	1.457	VV	
56	20.288	9133359	995467	7.109	VE +	PCB260;1
57	20.558	1927579	227125	1.500	EV	
58	20.755	7066630	985867	5.500	VV +	
59	20.986	6290186	680148	4.896	VV	PCB260;2
60	21.331	7722242	880087	6.011	VE	PCB260;3
61	21.674	700951	101847	0.546	EV	
62	21.924	1638625	214368	1.275	VV	
63	22.123	1931838	285741	1.504	VV	
64	22.445	3128827	478347	2.435	VV	PCB254;5
65	22.640	4087538	525601	3.182	VV	PCB260;4
66	22.828	3798552	513646	2.957	VV	
67	23.046	9460109	994747	7.363	VV +	
68	23.448	1233863	164518	0.960	VV	
69	23.595	1164963	133587	0.907	VV	
70	23.944	283212	40073	0.220	VB	

71	24.279	96081	10495	0.075	BV	
72	24.593	736191	119761	0.573	VV	PCB260;5
73	24.742	3101644	460825	2.414	VV	
74	24.830	1926306	310836	1.499	VV	
75	25.117	3645306	398272	2.837	VE	DBUCLE
76	25.378	187727	26747	0.146	EV	
77	25.571	326250	40039	0.254	EV	
78	25.859	83537	14342	0.065	VV	
79	26.049	31569	5016	0.025	VV	
80	26.208	52333	5965	0.041	VV	
81	26.432	27178	4549	0.021	VV	
82	26.638	535314	54371	0.417	VV	
83	26.757	182551	38339	0.142	VV	
84	26.908	1745212	231207	1.358	VE	
85	27.235	257753	18752	0.201	EV	
86	27.494	62234	8650	0.048	EV	
87	27.727	927639	104562	0.722	VE	
88	28.103	31505	2181	0.025	EV	
89	28.437	39083	3482	0.030	EV	
90	28.732	95453	13780	0.074	VV	
91	28.869	261486	31245	0.204	VE	
92	29.324	19128	1721	0.015	EV	
93	29.655	10436	1275	0.008	EB	
94	29.929	3370	472	0.003	BB	
95	30.174	1036	128	0.001	BB	
96	30.665	98284	11105	0.077	BE	
97	30.876	10575	1204	0.008	EB	
98	31.293	5948	737	0.005	BB	
99	32.049	20026	1722	0.016	BV	
100	32.530	386905	36462	0.301	VE	CL10BP
101	32.737	23238	2144	0.018	EV	
102	33.145	3826	447	0.003	EB	
103	33.438	47700	4423	0.037	BV	
104	33.645	19886	2091	0.015	VB	
Totals		128475191		100.000		

ANALYSIS NOTES

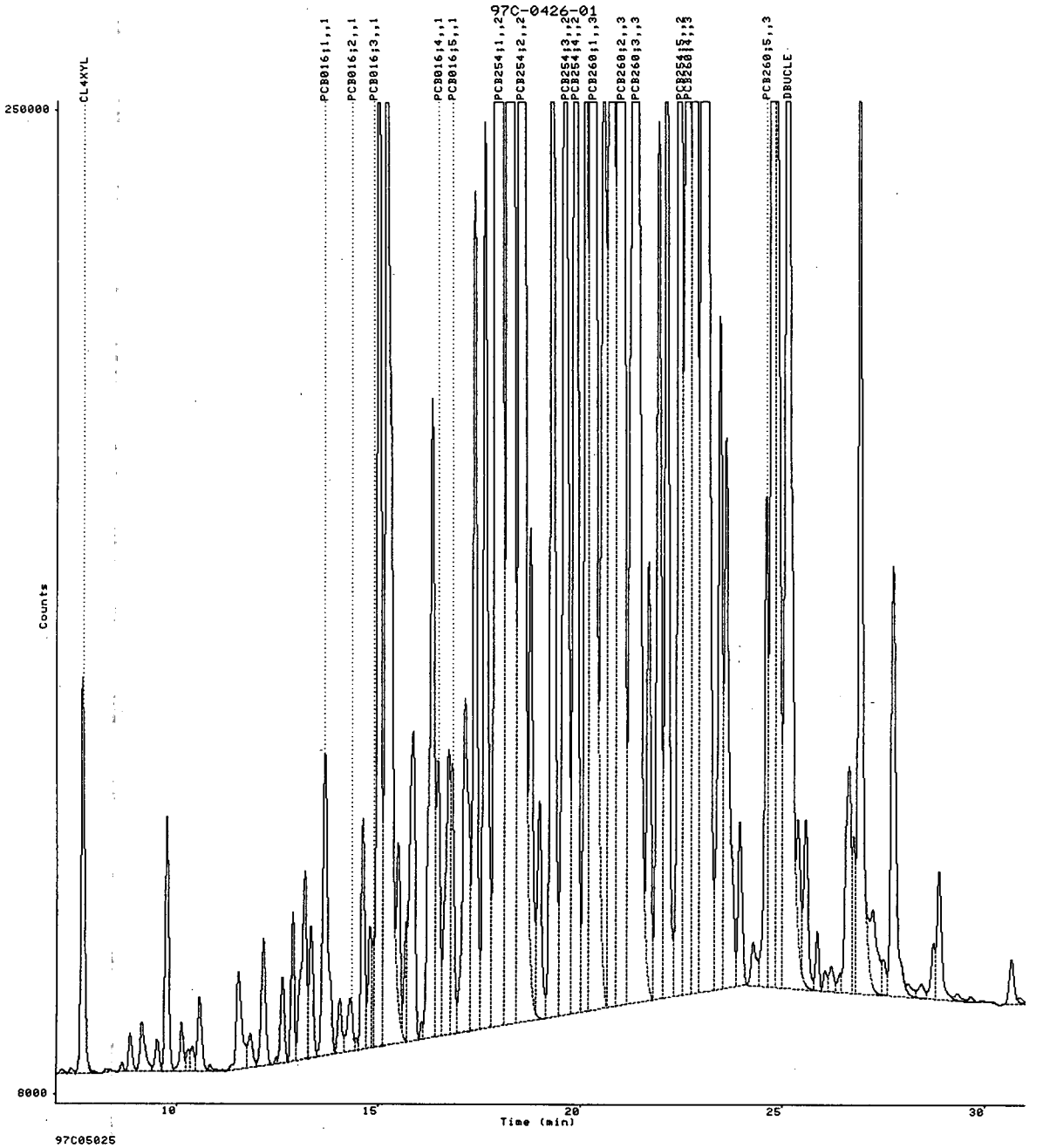
1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316035.RAW;1
Report: 1197248520
Acquired: 13-NOV-1997 13:22:03
Time range: 12.35-25.85



0296

Data file: DISK:[TAYLORC]5997316035.RAW;1
Report: 1197250768
Acquired: 13-NOV-1997 13:22:03
Time range: 7.00-31.00



0297

Date.....17-NOV-1997 17:47:55.86 User: TAYLORC
Report number.....1197250769
Raw file.....DISK:[TAYLORC]5997316036.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 13:59:24
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05026
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....	34.000 min	Delay time.....	7.000 min
Area reject.....	100 count(s)	No. peaks found.....	80
Noise threshold.....	10.0 microvolts	Area threshold.....	120
Start peak width....	6.00 sec(s)	Area/Pk.Ht.....	H
Min. window.....	8.00 sec	% window.....	0.00
Analysis type.....	EXTERNAL STANDARD	A/D range.....	1.0 volt(s)
Sample rack.....	25		
Sample vial.....	25		
Analysis fit.....	Quadratic	Origin treatment....	Ignore
Report units.....	UG/SAMPLE		
Sample amount.....	1.00000		
Volume injected.....	1.00000	Conversion factor...	3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
19.61	PCB254;3	2		
20.30	PCB260;1	3		
21.36	PCB260;3	3		
22.46	PCB254;5	2		
22.66	PCB260;4	3		
24.60	PCB260;5	3		

0298

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE		Peak Ht	Ref Std	BL	Group
	7.116				2015		BE	
	7.377				256		EV	
CL4XYL	7.647	1.53	22.76		90235		VB	
	8.201				198		BV	
	8.350				567		VB	
	8.631				243		BB	
	9.143				7361		BV	
	9.494				6079		VV	
	9.750				10921		VV	
	10.073				6170		VV	
	10.276				63418		VV	
	10.568				218897		VE	
	10.832				27103		EB	
	11.401				11272		BV	
	11.601				12626		VV	
	11.711				9046		VV	
	12.144				4308		VE	
	12.316				329		EB	
	12.643				153087		BE	
	12.867				3740		EV	
	13.098				204332		VB	
PCB016;1	13.788	-7.32	219.7	+	285274		BB	1
PCB016;2	14.268	4.46	190.3	+	108467		BB	1
	14.606				119759		BE	
PCB016;3	14.781	6.68	24.71		9045		EV	1
	15.025				1001510		VV	
	15.210				994953		VV	
	15.477				166091		VV	
	15.712				38194		VV	
	15.837				86105		VB	
	16.336				999093		BV	
PCB016;4	16.453	1.46	1409	+	730088		VV	1
PCB016;5	16.812	1.22	1092	+	1000930		VE	1
	16.998				27159		EV	
	17.149				996245		VV	
	17.392				986749		VV	
	17.628				985657		VV	
PCB254;1	17.981	-1.28			981627		VV	2
	18.255				970695		VV	
PCB254;2	18.511	0.03			969775		VV	2
	18.746				981629		VB	
	19.310				970674		BV	
PCB254;4	19.781	5.04			956516		VV	2
PCB260;2	20.891	7.27	956.4	+	941827		VV	3
	21.521				944086		VV	
	21.672				948574		VV	
	21.885				711795		VV	
	22.138				952408		VV	
	22.839				927158		VV	
	23.514				927713		VV	
	23.946				413803		VB	
	24.348				16646		BV	
	24.765				920541		VV	
DBUCLE	25.169	-2.40	218.7	+	932294		VV	
	25.568				497575		VV	
	25.857				205215		VV	

0299

	26.039		70651	VV
	26.207		55923	VV
	26.643		726847	VV
	26.909		956897	VV
	27.248		253512	VV
	27.505		78370	VV
	27.716		72049	VV
	27.939		37123	VV
	28.110		21262	VV
	28.448		15607	VB
	28.735		139240	BV
	28.866		312938	VV
	29.337		35889	VV
	29.632		9274	VV
	29.912		8575	VB
	30.159		710	BB
	30.664		101095	BB
	31.102		2593	BB
	31.383		1323	BB
	31.779		2120	BB
CL10BP	32.523	3.52	56264	BB
	33.119		965	BB
	33.439		4357	BV
	33.709		1338	VB

GROUP REPORT

Group	UG/SAMPLE
1	2936
3	956.4

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL R	Peak Name
1	7.116	14754	2015	0.003		BE	
2	7.377	1388	256	0.000		EV	
3	7.647	636739	90235	0.136		VB	CL4XYL
4	8.201	1083	198	0.000		BV	
5	8.350	3488	567	0.001		VB	
6	8.631	1849	243	0.000		BB	
7	9.143	68495	7361	0.015		BV	
8	9.494	40622	6079	0.009		VV	
9	9.750	82726	10921	0.018		VV	
10	10.073	46447	6170	0.010		VV	
11	10.276	437287	63418	0.093		VV	
12	10.568	1615432	218897	0.345		VE	
13	10.832	178022	27103	0.038		EB	
14	11.401	74517	11272	0.016		BV	
15	11.601	83668	12626	0.018		VV	
16	11.711	77469	9046	0.017		VV	
17	12.144	34187	4308	0.007		VE	
18	12.316	1716	329	0.000		EB	
19	12.643	1001131	153087	0.214		BE	
20	12.867	21683	3740	0.005		EV	
21	13.098	1402163	204332	0.299		VB	
22	13.788	3029637	285274	0.647		BB	PCB016;1

23	14.268	802486	108467	0.171	BB	PCB016;2
24	14.606	789461	119759	0.169	BE	
25	14.781	46860	9045	0.010	EV	PCB016;3
26	15.025	11995025	1001510	2.561	VV +	
27	15.210	14167666	994953	3.025	VV +	
28	15.477	1152665	166091	0.246	VV	
29	15.712	253939	38194	0.054	VV	
30	15.837	603618	86105	0.129	VB	
31	16.336	11678172	999093	2.494	BV +	
32	16.453	3781241	730088	0.807	VV	PCB016;4
33	16.812	11600561	1000930	2.477	VE +	PCB016;5
34	16.998	72884	27159	0.016	EV	
35	17.149	7648419	996245	1.633	VV +	
36	17.392	12777682	986749	2.729	VV +	
37	17.628	13230747	985657	2.825	VV +	
38	17.981	14752568	981627	3.150	VV +	PCB254;1
39	18.255	16830010	970695	3.594	VV +	
40	18.511	13599636	969775	2.904	VV +	PCB254;2
41	18.746	9134560	981629	1.951	VB +	
42	19.310	13007323	970674	2.778	BV +	
43	19.781	28886965	956516	6.168	VV +	PCB254;4
44	20.891	81781411	941827	17.464	VV +	PCB260;2
45	21.521	5691821	944086	1.215	VV +	
46	21.672	9209001	948574	1.966	VV +	
47	21.885	4732080	711795	1.010	VV	
48	22.138	12148382	952408	2.594	VV +	
49	22.839	52130299	927158	11.132	VV +	
50	23.514	21813273	927713	4.658	VV +	
51	23.946	3101128	413803	0.662	VB	
52	24.348	150278	16646	0.032	BV	
53	24.765	26478642	920541	5.654	VV +	
54	25.169	19794130	932294	4.227	VV +	DBUCLE
55	25.568	4412423	497575	0.942	VV	
56	25.857	1390508	205215	0.297	VV	
57	26.039	502435	70651	0.107	VV	
58	26.207	472614	55923	0.101	VV	
59	26.643	7602257	726847	1.623	VV	
60	26.909	11412801	956897	2.437	VV +	
61	27.248	2457166	253512	0.525	VV	
62	27.505	630122	78370	0.135	VV	
63	27.716	645043	72049	0.138	VV	
64	27.939	266330	37123	0.057	VV	
65	28.110	158142	21262	0.034	VV	
66	28.448	116811	15607	0.025	VB	
67	28.735	796705	139240	0.170	BV	
68	28.866	2557517	312938	0.546	VV	
69	29.337	332845	35889	0.071	VV	
70	29.632	93249	9274	0.020	VV	
71	29.912	85865	8575	0.018	VB	
72	30.159	5086	710	0.001	BB	
73	30.664	876643	101095	0.187	BB	
74	31.102	17579	2593	0.004	BB	
75	31.383	12093	1323	0.003	BB	
76	31.779	30275	2120	0.006	BB	
77	32.523	651187	56264	0.139	BB	CL10BP
78	33.119	10769	965	0.002	BB	
79	33.439	52450	4357	0.011	BV	
80	33.709	12559	1338	0.003	VB	
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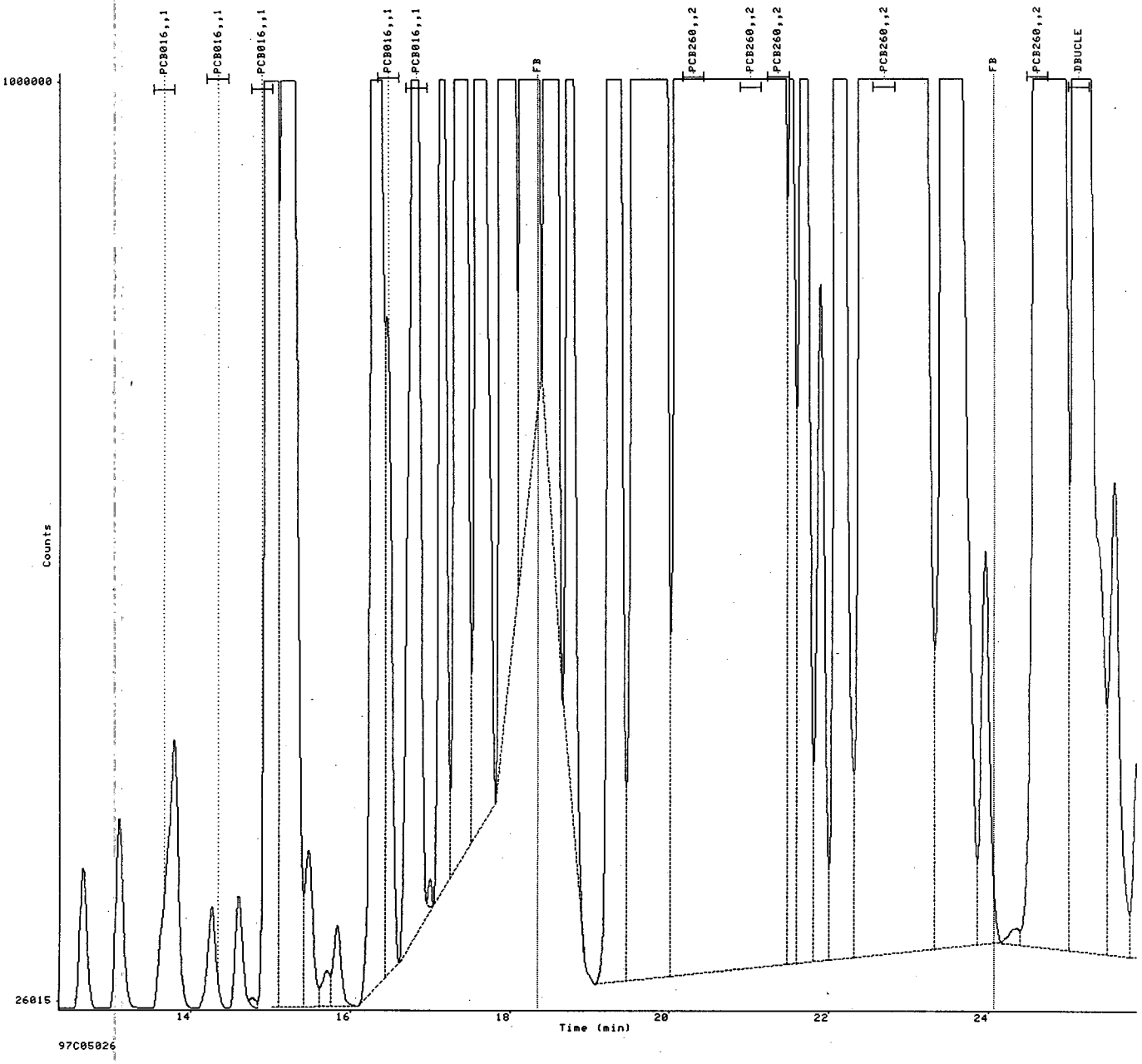
Totals		468298910		100.000		

0301

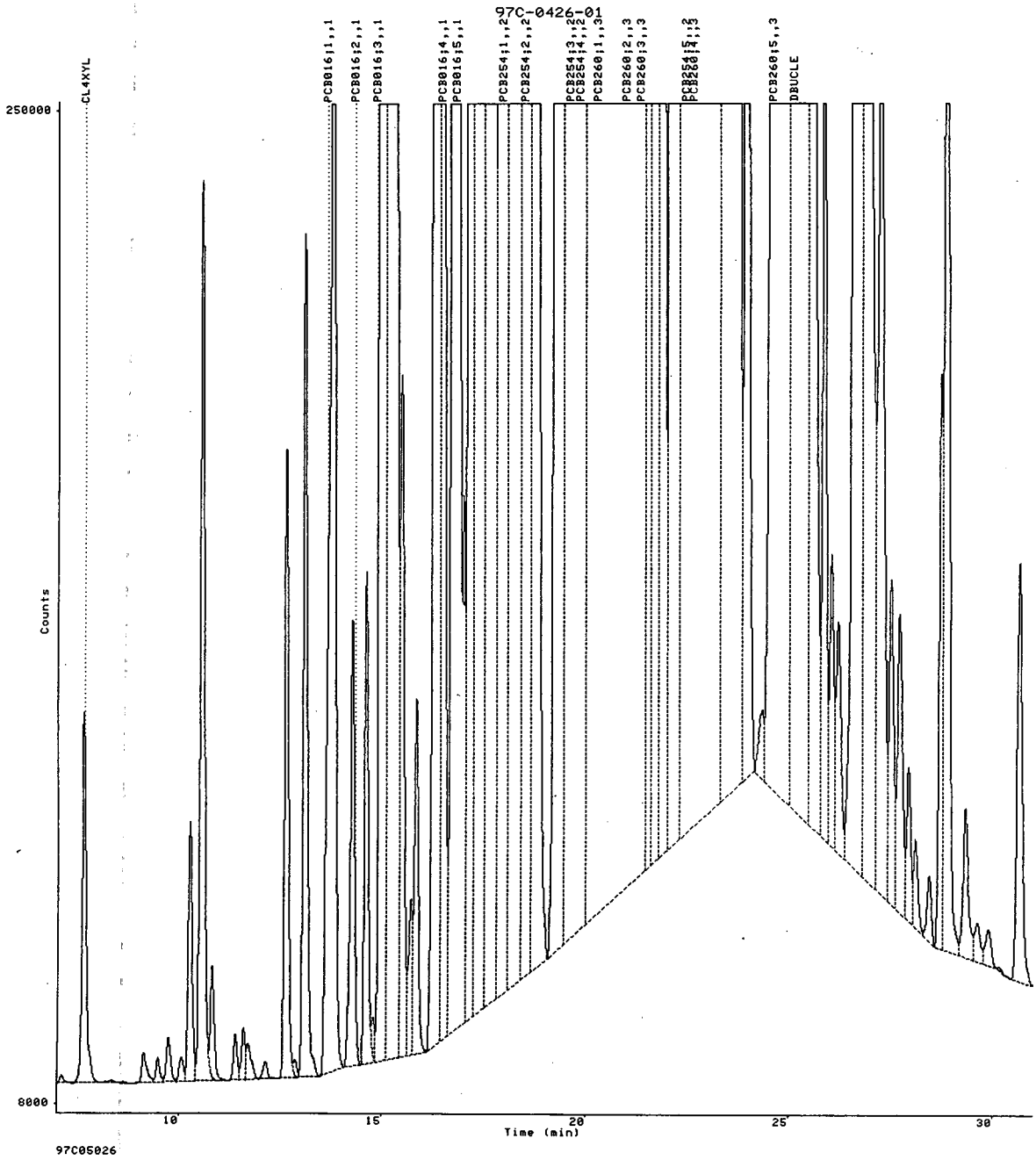
ANALYSIS NOTES

1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316036.RAW;1
Report: 1197248521
Acquired: 13-NOV-1997 13:59:24
Time range: 12.35-25.85



Data file: DISK:[TAYLORC]5997316036.RAW;1
Report: 1197250769
Acquired: 13-NOV-1997 13:59:24
Time range: 7.00-31.00



0304

Date.....17-NOV-1997 17:48:08.16 User: TAYLORC
Report number.....1197250770
Raw file.....DISK:[TAYLORC]5997316037.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 14:36:45
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05027
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.000 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....97
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.120			1555		BV	
	7.369			1576		VV	
CL4XYL	7.643	1.76	25.76	102067		VB	
	8.340			453		BB	
	8.637			823		BB	
	8.840			2464		BV	
	9.143			10213		VV	
	9.494			3643		VV	

0305

	9.748				763950	VE	
	10.121				17546	EV	
	10.273				11143	EV	
	10.388				7632	VV	
	10.565				41036	VE	
	10.828				2846	EB	
	11.536				25485	BV	
	11.826				9062	VV	
	12.147				66053	VB	
	12.427				460	BV	
	12.627				46140	VV	
	12.875				254115	VV	
	13.171				121386	VV	
	13.318				71558	VV	
PCB016;1	13.667	-0.05	105.6		135533	VV	1
	14.039				24190	VV	
PCB016;2	14.287	3.28	52.56		28647	VV	1
	14.449				9173	VV	
	14.603				135676	VV	
PCB016;3	14.996	-6.22	919.4	+	1001440	VV	1
	15.188				963459	VE	
	15.489				142476	EV	
	15.667				77214	EV	
	15.845				275903	VE	
	16.068				33808	EV	
	16.313				451290	VV	
PCB016;4	16.459	1.09	570.5	+	186780	VV	1
PCB016;5	16.812	1.19	597.1	+	376306	VV	1
	17.116				323788	VV	
	17.368				732906	VV	
	17.621				726068	VV	
PCB254;1	17.960	0.00			981149	VV	2
	18.244				982080	VV	
PCB254;2	18.541	-1.82			978603	VV	2
	18.743				411685	VV	
	18.983				133639	VV	
	19.290				829036	VV	
PCB254;3	19.596	1.00			931275	VV	2
PCB254;4	19.852	0.80			986415	VV	2
	20.119				800460	VV	
PCB260;1	20.292	0.19	1059	+	976552	VV	3
	20.555				692908	VV	
	20.759				978747	VV	
PCB260;2	20.990	1.33	993.7	+	980845	VV	3
PCB260;3	21.329	1.75	689.3	+	981592	VV	3
	21.671				314299	VV	
	21.919				273311	VV	
	22.119				700738	VV	
PCB254;5	22.441	0.93			977949	VV	2
PCB260;4	22.639	1.00	1077	+	970738	VV	3
	22.824				966220	VV	
	23.041				969458	VV	
	23.444				422261	VV	
	23.589				308270	VV	
	23.937				115586	VB	
	24.262				5738	BV	
PCB260;5	24.590	0.88	375.1	+	292993	VV	3
	24.745				973640	VV	
	24.824				817302	VV	
DBUCLE	25.116	0.80	219.7	+	937560	VE	

	25.372		46870	EV
	25.568		96399	EV
	25.855		34288	VV
	26.043		10957	VV
	26.191		14496	VV
	26.641		140781	VV
	26.745		87627	VV
	26.905		585792	VE
	27.244		44379	EV
	27.498		13078	VV
	27.708		20037	VV
	27.932		11911	VV
	28.109		3821	VV
	28.442		5271	VB
	28.731		34206	BV
	28.865		82115	VE
	29.325		5505	EV
	29.632		1574	VV
	29.907		2060	VV
	30.128		1830	VB
	30.662		27018	BE
	30.880		3394	EB
	31.382		118	BB
	31.596		394	BB
	32.038		4680	BV
CL10BP	32.524	3.47	47981	VE
	33.104		1144	EB
	33.432		4035	BV
	33.649		1709	VB

GROUP REPORT

Group	UG/SAMPLE
1	2245
3	4194

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL	R	Peak Name
1	7.120	12913	1555	0.005		BV		
2	7.369	11029	1576	0.004		VV		
3	7.643	647846	102067	0.233		VB		CL4XYL
4	8.340	3589	453	0.001		BB		
5	8.637	4590	823	0.002		BB		
6	8.840	15095	2464	0.005		BV		
7	9.143	93320	10213	0.034		VV		
8	9.494	24203	3643	0.009		VV		
9	9.748	5101725	763950	1.835		VE		
10	10.121	122892	17546	0.044		EV		
11	10.273	72066	11143	0.026		EV		
12	10.388	40547	7632	0.015		VV		
13	10.565	306285	41036	0.110		VE		
14	10.828	21298	2846	0.008		EB		
15	11.536	260551	25485	0.094		BV		
16	11.826	71438	9062	0.026		VV		
17	12.147	475433	66053	0.171		VB		
18	12.427	2109	460	0.001		BV		

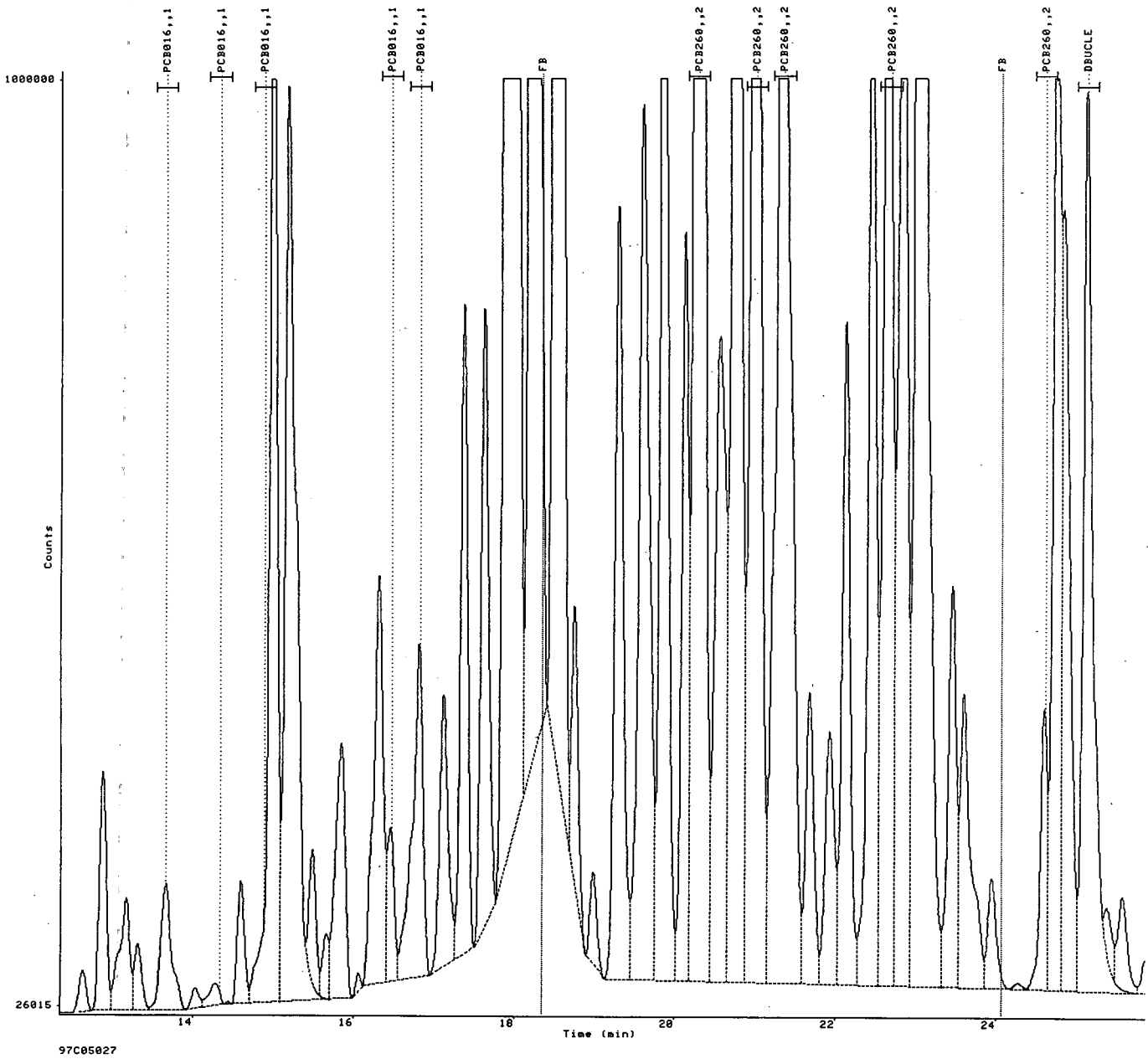
19	12.627	316206	46140	0.114	VV	
20	12.875	1602993	254115	0.577	VV	
21	13.171	1147459	121386	0.413	VV	
22	13.318	490537	71558	0.176	VV	
23	13.667	1333802	135533	0.480	VV	PCB016;1
24	14.039	177843	24190	0.064	VV	
25	14.287	300973	28647	0.108	VV	PCB016;2
26	14.449	40595	9173	0.015	VV	
27	14.603	889841	135676	0.320	VV	
28	14.996	7608473	1001440	2.736	VV +	PCB016;3
29	15.188	9315151	963459	3.350	VE	
30	15.489	881318	142476	0.317	EV	
31	15.667	412869	77214	0.148	EV	
32	15.845	2508159	275903	0.902	VE	
33	16.068	175771	33808	0.063	EV	
34	16.313	3955340	451290	1.423	VV	
35	16.459	1192751	186780	0.429	VV	PCB016;4
36	16.812	3907124	376306	1.405	VV	PCB016;5
37	17.116	2833269	323788	1.019	VV	
38	17.368	4851909	732906	1.745	VV	
39	17.621	5598049	726068	2.013	VV	
40	17.960	16110827	981149	5.794	VV +	PCB254;1
41	18.244	13999017	982080	5.035	VV +	
42	18.541	13036971	978603	4.689	VV +	PCB254;2
43	18.743	2900781	411685	1.043	VV	
44	18.983	1042662	133639	0.375	VV	
45	19.290	6398076	829036	2.301	VV	
46	19.596	8847836	931275	3.182	VV	PCB254;3
47	19.852	8418543	986415	3.028	VV +	PCB254;4
48	20.119	4715140	800460	1.696	VV	
49	20.292	12445902	976552	4.476	VV +	PCB260;1
50	20.555	6485460	692908	2.332	VV	
51	20.759	11087550	978747	3.988	VV +	
52	20.990	11565666	980845	4.160	VV +	PCB260;2
53	21.329	15233171	981592	5.479	VV +	PCB260;3
54	21.671	2337771	314299	0.841	VV	
55	21.919	2226500	273311	0.801	VV	
56	22.119	4935958	700738	1.775	VV	
57	22.441	7512088	977949	2.702	VV +	PCB254;5
58	22.639	9273138	970738	3.335	VV +	PCB260;4
59	22.824	8873987	966220	3.192	VV +	
60	23.041	14123870	969458	5.080	VV +	
61	23.444	3109543	422261	1.118	VV	
62	23.589	2931723	308270	1.054	VV	
63	23.937	875125	115586	0.315	VB	
64	24.262	39274	5738	0.014	BV	
65	24.590	1783406	292993	0.641	VV	PCB260;5
66	24.745	7285672	973640	2.620	VV +	
67	24.824	5296845	817302	1.905	VV	
68	25.116	8194127	937560	2.947	VE	DBUCLE
69	25.372	372805	46870	0.134	EV	
70	25.568	813562	96399	0.293	EV	
71	25.855	219197	34288	0.079	VV	
72	26.043	64686	10957	0.023	VV	
73	26.191	135179	14496	0.049	VV	
74	26.641	1339826	140781	0.482	VV	
75	26.745	375755	87627	0.135	VV	
76	26.905	4019560	585792	1.446	VE	
77	27.244	472141	44379	0.170	EV	
78	27.498	98939	13078	0.036	VV	

79	27.708	151511	20037	0.054	VV	
80	27.932	93532	11911	0.034	VV	
81	28.109	28402	3821	0.010	VV	
82	28.442	45070	5271	0.016	VB	
83	28.731	199296	34206	0.072	BV	
84	28.865	690187	82115	0.248	VE	
85	29.325	62911	5505	0.023	EV	
86	29.632	12680	1574	0.005	VV	
87	29.907	21528	2060	0.008	VV	
88	30.128	20663	1830	0.007	VB	
89	30.662	232863	27018	0.084	BE	
90	30.880	29091	3394	0.010	EB	
91	31.382	765	118	0.000	BB	
92	31.596	3299	394	0.001	BB	
93	32.038	59455	4680	0.021	BV	
94	32.524	499484	47981	0.180	VE	CL10BP
95	33.104	14079	1144	0.005	EB	
96	33.432	43085	4035	0.015	BV	
97	33.649	16139	1709	0.006	VB	
Totals		278049680		100.000		

ANALYSIS NOTES

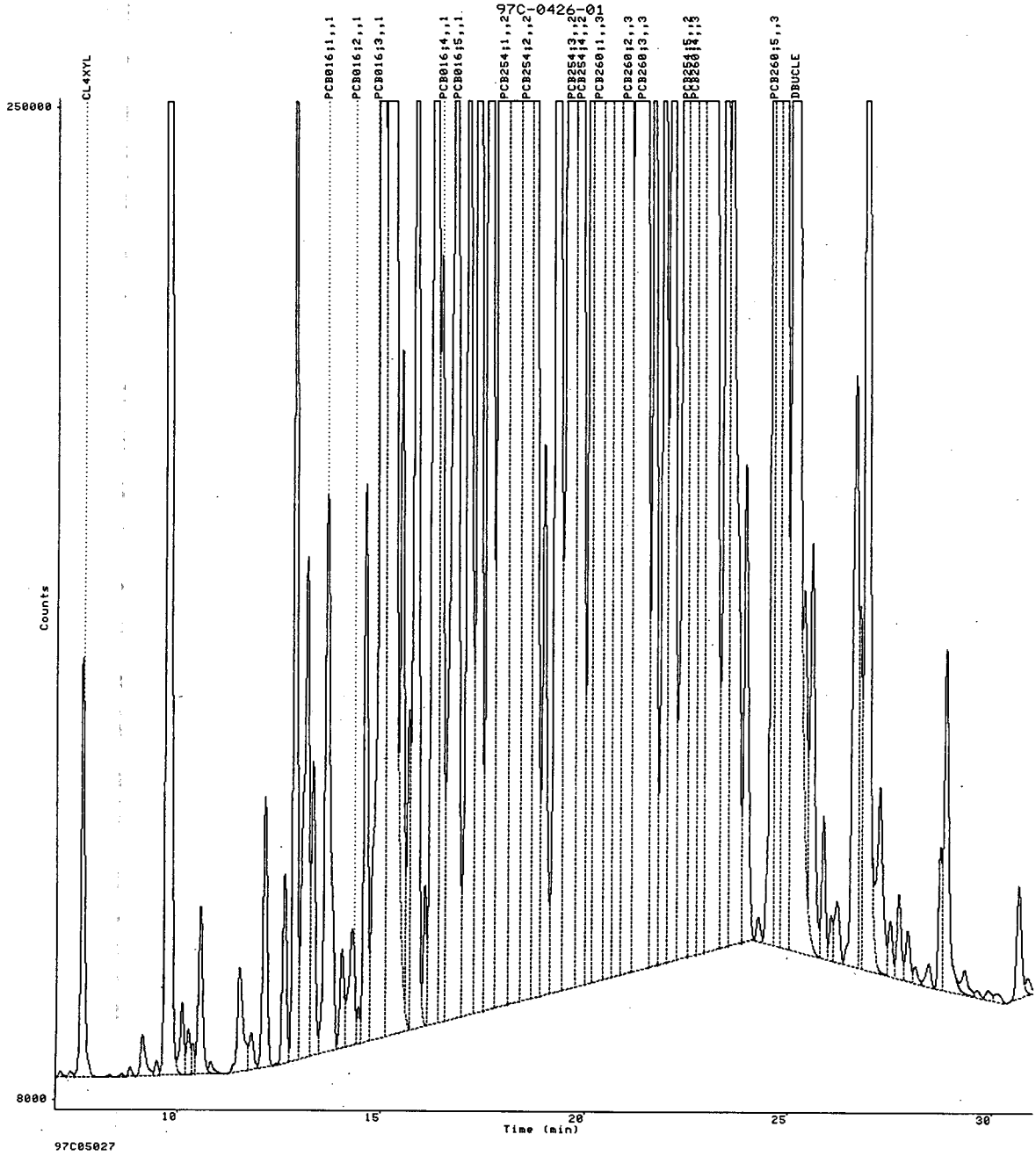
1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316037.RAW;1
Report: 1197248522
Acquired: 13-NOV-1997 14:36:45
Time range: 12.35-25.85



0310

Data file: DISK:[TAYLORC]5997316037.RAW;1
Report: 1197250770
Acquired: 13-NOV-1997 14:36:45
Time range: 7.00-31.00



0311

Date.....17-NOV-1997 17:48:23.10 User: TAYLORC
Report number.....1197250771
Raw file.....DISK:[TAYLORC]5997316038.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 15:14:06
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05028
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.000 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....104
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.138			1520		BV	
	7.359			2192		VV	
CL4XYL	7.641	1.84	28.45	112675		VE	
	7.943			664		EB	
	8.246			1915		BE	
	8.468			169		EB	
	8.644			2799		BV	
	8.840			9817		VB	

0312

	9.140				12085	BV	
	9.516				10549	VV	
	9.746				71692	VV	
	10.121				15782	VV	
	10.340				10991	VV	
	10.563				19780	VE	
	10.826				1577	EV	
	10.968				885	EB	
	11.147				262	BV	
	11.307				2950	VV	
	11.528				27575	VV	
	11.826				11011	VV	
	12.148				32328	VB	
	12.469				1213	BV	
	12.615				24860	VV	
	12.872				43607	VV	
	13.169				50026	VV	
	13.322				34564	VV	
PCB016;1	13.668	-0.13	62.68		80150	VV	1
	14.037				19860	VV	
PCB016;2	14.298	2.63	25.64		13873	VE	1
	14.446				2426	EV	
	14.602				70879	VV	
	14.779				39329	VV	
PCB016;3	14.994	-6.13	473.4	+	346174	VV	1
	15.188				344760	VE	
	15.478				40723	EV	
	15.677				35808	EV	
	15.834				86565	VE	
	16.068				4885	EV	
	16.312				186967	VV	
PCB016;4	16.463	0.82	302.1	+	80442	VV	1
	16.720				84869	VV	
PCB016;5	16.804	1.70	197.2	+	78656	VV	1
	17.128				93624	VV	
	17.368				232877	VV	
	17.618				260310	VV	
PCB254;1	17.942	1.08			1000609	VV	2
	18.209				938224	VV	
PCB254;2	18.515	-0.21			753283	VE	2
	18.744				120111	EV	
	18.972				55654	EV	
	19.289				353795	VV	
PCB254;3	19.596	1.02			376127	VV	2
PCB254;4	19.851	0.85			646180	VV	2
	20.119				356641	VV	
PCB260;1	20.285	0.60	1065	+	984266	VV	3
	20.554				261472	VV	
	20.752				986798	VV	
PCB260;2	20.981	1.86	762.7	+	742058	VV	3
PCB260;3	21.328	1.80	674.1	+	954141	VE	3
	21.670				109281	EV	
	21.920				233699	VV	
	22.120				312896	VV	
PCB254;5	22.441	0.93			544588	VV	2
PCB260;4	22.637	1.11	715.9	+	570764	VV	3
	22.825				562097	VV	
	23.042				984787	VV	
	23.445				178187	VV	
	23.592				140834	VV	

	23.942				40074	VB	
	24.276				10736	BV	
PCB260;5	24.591	0.84	194.4	+	130580	VV	3
	24.739				503018	VV	
	24.829				348454	VV	
DBUCLE	25.115	0.84	114.8		438138	VE	
	25.372				25794	EV	
	25.568				41639	EV	
	25.855				15764	VV	
	26.050				4583	VV	
	26.203				6608	VV	
	26.430				5203	VV	
	26.638				64437	VV	
	26.755				49168	VV	
	26.905				256988	VE	
	27.231				21258	EV	
	27.492				9967	EV	
	27.725				169220	VE	
	28.101				2834	EV	
	28.435				4262	EV	
	28.728				15981	VV	
	28.866				35546	VE	
	29.318				2073	EV	
	29.452				1149	EV	
	29.646				1553	EB	
	29.938				573	BB	
	30.664				13575	BV	
	30.881				3832	VV	
	31.287				1775	VB	
	32.057				1322	BB	
CL10BP	32.525	3.44			39589	BE	
	32.732				3114	EB	
	33.138				408	BB	
	33.431				5344	BV	
	33.637				2381	VB	

GROUP REPORT

Group	UG/SAMPLE
1	1061
3	3412

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL R	Peak Name
1	7.138	11867	1520	0.008		BV	
2	7.359	15526	2192	0.011		VV	
3	7.641	692936	112675	0.491		VE	CL4XYL
4	7.943	5764	664	0.004		EB	
5	8.246	15252	1915	0.011		BE	
6	8.468	568	169	0.000		EB	
7	8.644	16716	2799	0.012		BV	
8	8.840	62309	9817	0.044		VB	
9	9.140	103353	12085	0.073		BV	
10	9.516	68444	10549	0.048		VV	
11	9.746	453620	71692	0.321		VV	

12	10.121	98524	15782	0.070	VV	
13	10.340	106933	10991	0.076	VV	
14	10.563	143558	19780	0.102	VE	
15	10.826	8762	1577	0.006	EV	
16	10.968	5410	885	0.004	EB	
17	11.147	953	262	0.001	BV	
18	11.307	26654	2950	0.019	VV	
19	11.528	277738	27575	0.197	VV	
20	11.826	90807	11011	0.064	VV	
21	12.148	258432	32328	0.183	VB	
22	12.469	5068	1213	0.004	BV	
23	12.615	168398	24860	0.119	VV	
24	12.872	247174	43607	0.175	VV	
25	13.169	464561	50026	0.329	VV	
26	13.322	247232	34564	0.175	VV	
27	13.668	744381	80150	0.527	VV	PCB016;1
28	14.037	135806	19860	0.096	VV	
29	14.298	129116	13873	0.091	VE	PCB016;2
30	14.446	9104	2426	0.006	EV	
31	14.602	449979	70879	0.319	VV	
32	14.779	322312	39329	0.228	VV	
33	14.994	2246415	346174	1.591	VV	PCB016;3
34	15.188	3505647	344760	2.483	VE	
35	15.478	254666	40723	0.180	EV	
36	15.677	171693	35808	0.122	EV	
37	15.834	856904	86565	0.607	VE	
38	16.068	20942	4885	0.015	EV	
39	16.312	1570506	186967	1.112	VV	
40	16.463	519279	80442	0.368	VV	PCB016;4
41	16.720	715755	84869	0.507	VV	
42	16.804	467168	78656	0.331	VV	PCB016;5
43	17.128	986403	93624	0.699	VV	
44	17.368	1562454	232877	1.107	VV	
45	17.618	1969369	260310	1.395	VV	
46	17.942	10480190	1000609	7.424	VV +	PCB254;1
47	18.209	8553837	938224	6.059	VV	
48	18.515	7112987	753283	5.039	VE	PCB254;2
49	18.744	775338	120111	0.549	EV	
50	18.972	463070	55654	0.328	EV	
51	19.289	2646315	353795	1.875	VV	
52	19.596	3218552	376127	2.280	VV	PCB254;3
53	19.851	4240245	646180	3.004	VV	PCB254;4
54	20.119	2067562	356641	1.465	VV	
55	20.285	9243329	984266	6.548	VV +	PCB260;1
56	20.554	2386190	261472	1.690	VV	
57	20.752	7670937	986798	5.434	VV +	
58	20.981	7087769	742058	5.021	VV	PCB260;2
59	21.328	8425671	954141	5.968	VE	PCB260;3
60	21.670	749427	109281	0.531	EV	
61	21.920	1763363	233699	1.249	VV	
62	22.120	2085236	312896	1.477	VV	
63	22.441	3556554	544588	2.519	VV	PCB254;5
64	22.637	4430595	570764	3.138	VV	PCB260;4
65	22.825	4138292	562097	2.931	VV	
66	23.042	9878829	984787	6.998	VV +	
67	23.445	1313182	178187	0.930	VV	
68	23.592	1200420	140834	0.850	VV	
69	23.942	286020	40074	0.203	VB	
70	24.276	99556	10736	0.071	BV	
71	24.591	812758	130580	0.576	VV	PCB260;5

72	24.739	3348518	503018	2.372	VV	
73	24.829	2196825	348454	1.556	VV	
74	25.115	3905505	438138	2.767	VE	DBUCLE
75	25.372	181814	25794	0.129	EV	
76	25.568	352480	41639	0.250	EV	
77	25.855	97045	15764	0.069	VV	
78	26.050	28093	4583	0.020	VV	
79	26.203	58167	6608	0.041	VV	
80	26.430	33468	5203	0.024	VV	
81	26.638	638372	64437	0.452	VV	
82	26.755	236214	49168	0.167	VV	
83	26.905	2042834	256988	1.447	VE	
84	27.231	291419	21258	0.206	EV	
85	27.492	70000	9967	0.050	EV	
86	27.725	1476601	169220	1.046	VE	
87	28.101	43401	2834	0.031	EV	
88	28.435	46287	4262	0.033	EV	
89	28.728	134151	15981	0.095	VV	
90	28.866	293613	35546	0.208	VE	
91	29.318	20397	2073	0.014	EV	
92	29.452	7066	1149	0.005	EV	
93	29.646	13121	1553	0.009	EB	
94	29.938	4391	573	0.003	BB	
95	30.664	122216	13575	0.087	BV	
96	30.881	53308	3832	0.038	VV	
97	31.287	19508	1775	0.014	VB	
98	32.057	13281	1322	0.009	BB	
99	32.525	411284	39589	0.291	BE	CL10BP
100	32.732	27176	3114	0.019	EB	
101	33.138	3023	408	0.002	BB	
102	33.431	57704	5344	0.041	BV	
103	33.637	21694	2381	0.015	VB	
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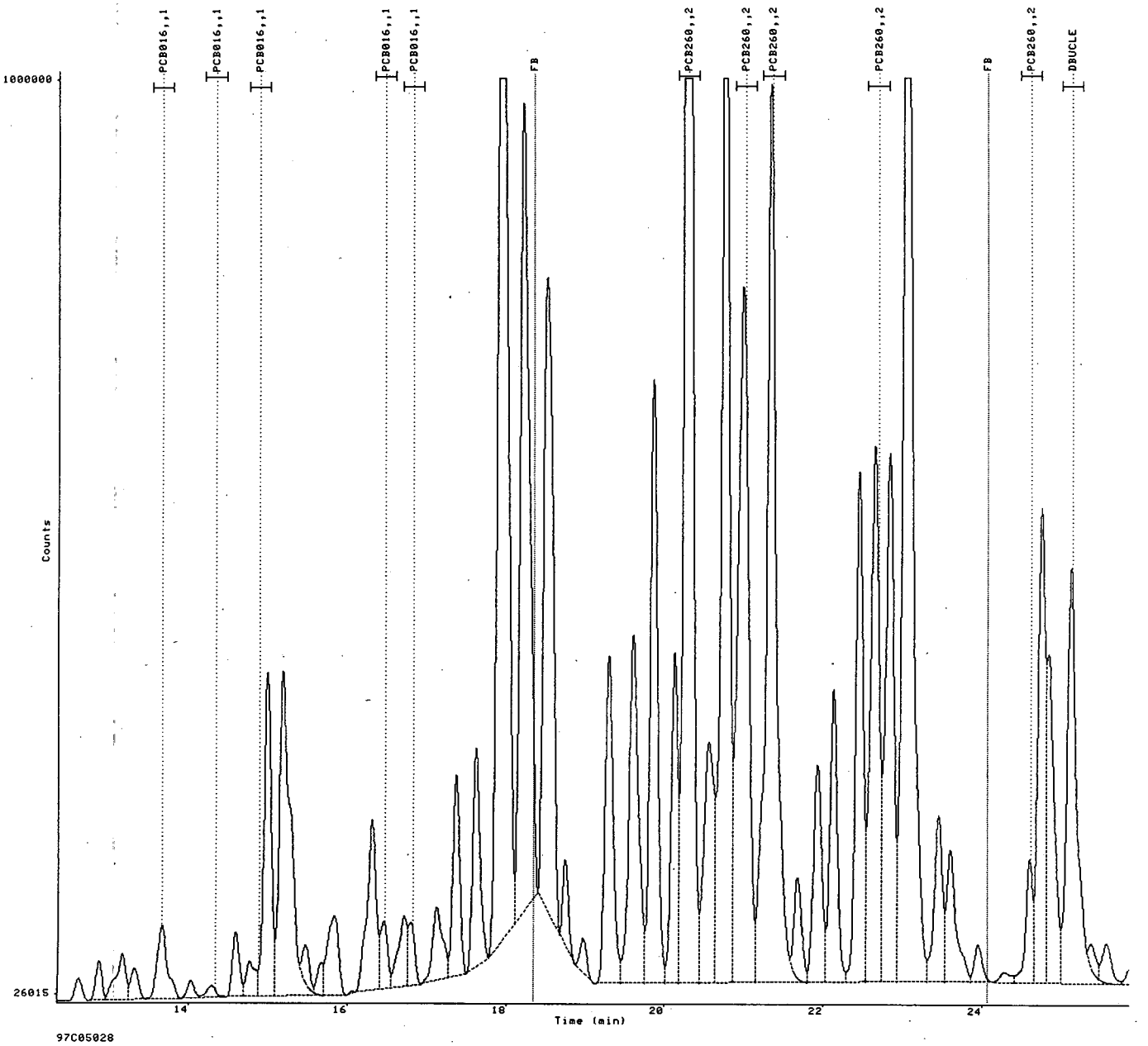
Totals		141169658		100.000		

ANALYSIS NOTES

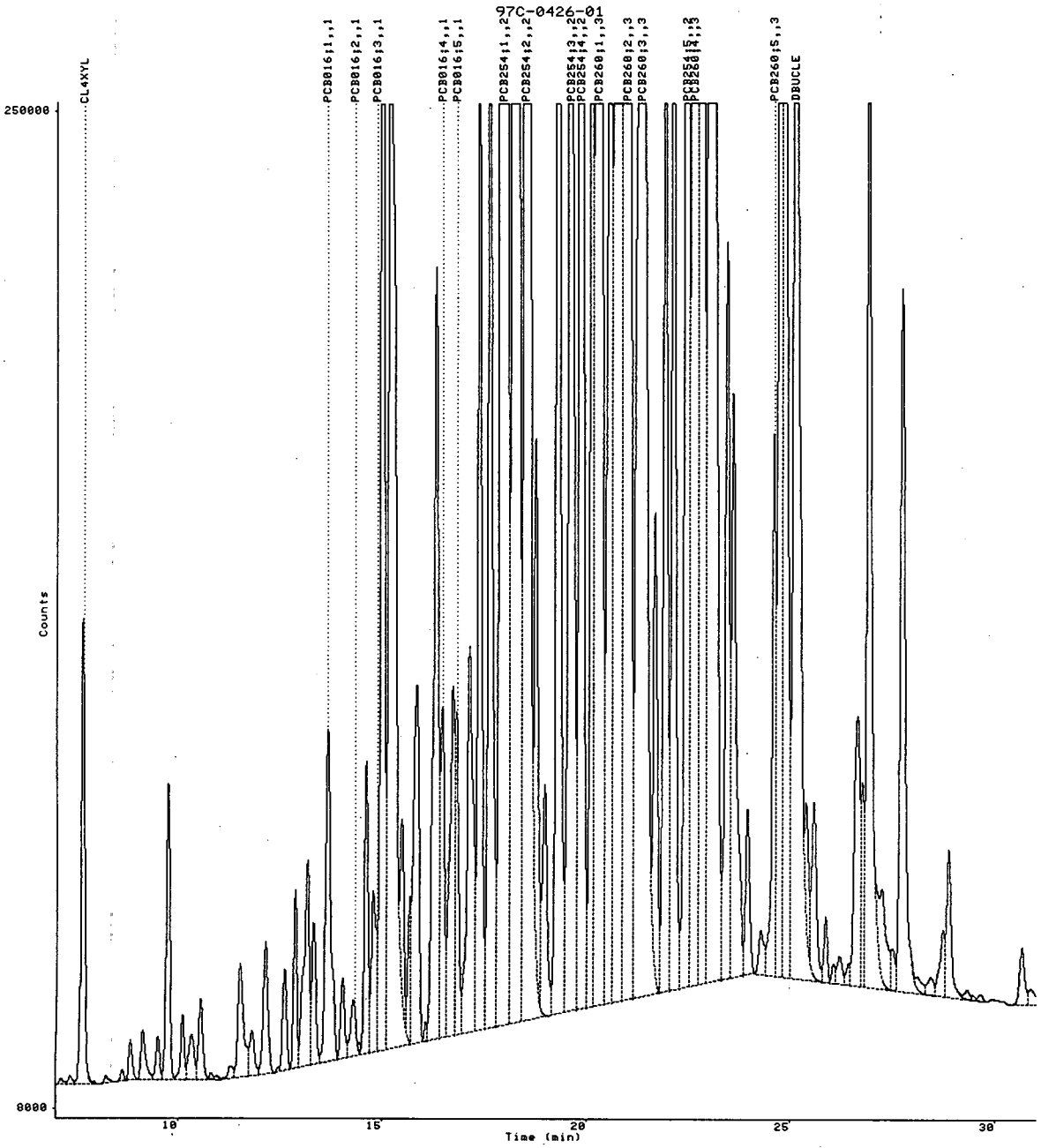
1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316038.RAW;1
Report: 1197248523
Acquired: 13-NOV-1997 15:14:06
Time range: 12.35-25.85



0317

Data file: DISK:[TAYLORC]5997316038.RAW;1
Report: 1197250771
Acquired: 13-NOV-1997 15:14:06
Time range: 7.00-31.00



97C05028

0318

Date.....17-NOV-1997 17:48:36.36 User: TAYLORC
Report number.....1197250772
Raw file.....DISK:[TAYLORC]5997316039.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 15:51:32
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05029
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....	34.000 min	Delay time.....	7.000 min
Area reject.....	100 count(s)	No. peaks found.....	87
Noise threshold.....	10.0 microvolts	Area threshold.....	120
Start peak width....	6.00 sec(s)	Area/Pk.Ht.....	H
Min. window.....	8.00 sec	% window.....	0.00
Analysis type.....	EXTERNAL STANDARD	A/D range.....	1.0 volt(s)
Sample rack.....	25		
Sample vial.....	25		
Analysis fit.....	Quadratic	Origin treatment....	Ignore
Report units.....	UG/SAMPLE		
Sample amount.....	1.00000		
Volume injected.....	1.00000	Conversion factor...	3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
	7.127			154			BB	
CL4XYL	7.651	1.28	22.34	88586			BB	
	8.620			374			BB	
	8.850			73			BB	
	9.195			17486			BV	
	9.744			5197			VV	
	10.127			3050			VV	
	10.281			2821			VV	

0319

	10.396				2063	VV	
	10.574				8400	VE	
	10.829				596	EV	
	11.014				874	EV	
	11.157				1224	VB	
	11.567				4858	BV	
	11.832				2324	VV	
	12.154				14512	VB	
	12.611				11148	BV	
	12.873				2413	VV	
	13.043				8692	VV	
	13.179				34443	VV	
	13.318				27404	VV	
PCB016;1	13.673	-0.44	30.25		38581	VE	1
	14.038				3519	EV	
PCB016;2	14.326	0.95	7.387		4002	EV	1
	14.454				3645	VV	
	14.608				19005	VV	
	14.779				13551	VV	
PCB016;3	14.870	1.33	27.46		10125	VV	1
	14.998				79687	VV	
	15.191				84952	VV	
	15.290				64282	VV	
	15.466				52650	VV	
	15.850				17082	VV	
	16.317				57788	VV	
PCB016;4	16.472	0.33	133.1		30303	VV	1
	16.725				34649	VV	
PCB016;5	16.806	1.56	97.98		33459	VV	1
	17.007				12968	VV	
	17.142				25430	VV	
	17.372				59287	VV	
	17.618				69110	VV	
PCB254;1	17.941	1.15	226.7	+	140179	VV	2
	18.213				106260	VV	
PCB254;2	18.506	0.28			83861	VV	2
	18.746				42755	VV	
	18.909				19671	VV	
	19.293				56357	VV	
PCB254;3	19.603	0.63			56733	VV	2
PCB254;4	19.853	0.73	138.2	+	74987	VV	2
	20.120				49990	VV	
PCB260;1	20.284	0.63	306.4	+	206515	VE	3
	20.555				43193	EV	
	20.756				145982	VV	
PCB260;2	20.915	5.85	556.7	+	534578	VV	3
PCB260;3	21.328	1.80	87.42		95119	VE	3
	21.668				16441	EV	
	21.918				20168	EV	
	22.120				29453	VV	
PCB254;5	22.446	0.64	190.2	+	53458	VV	2
PCB260;4	22.640	0.97	87.13		53644	VV	3
	22.827				53722	VV	
	23.041				119922	VE	
	23.444				16046	EV	
	23.585				11120	EV	
	23.958				2091	VB	
	24.249				222	BB	
PCB260;5	24.588	1.04	16.19		8933	BV	3
	24.739				36074	VV	

0320

	24.830			26391	VV
DBUCLE	25.101	1.65	20.68	69239	VE
	25.507			270	EB
	25.753			211	BV
	25.854			325	VB
	26.177			286	BB
	26.910			35912	BV
	27.721			7974	VB
	28.436			143	BV
	28.719			708	VV
	28.860			2070	VB
	29.227			744	BB
	29.896			83	BB
	30.662			1491	BV
	30.887			822	VB
	31.778			38	BB
	32.225			645	BV
CL10BP	32.521	3.66		31393	VB
	33.440			428	BB

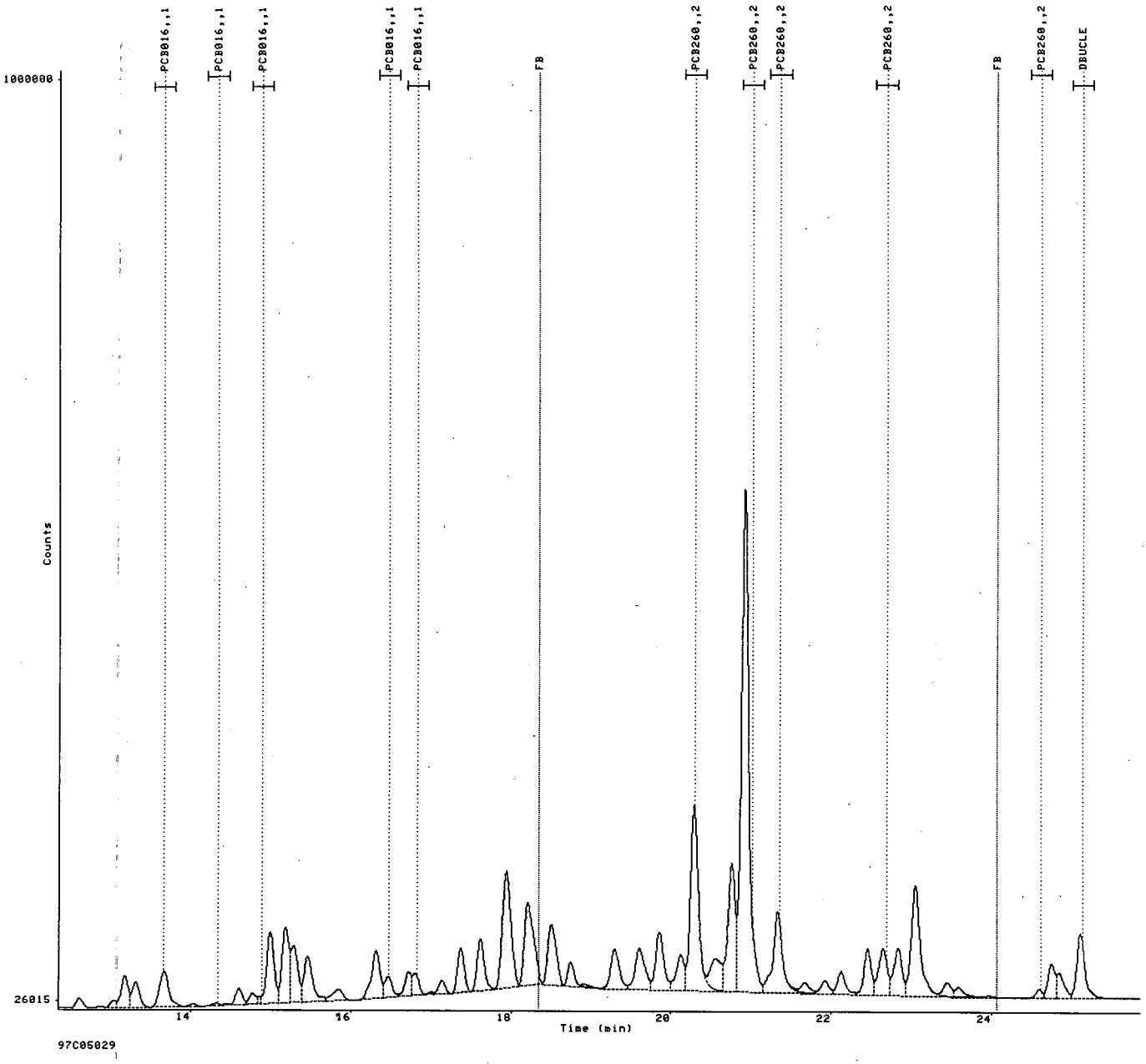
GROUP REPORT

Group	UG/SAMPLE
1	296.1
2	555.0
3	1054

ANALYSIS NOTES

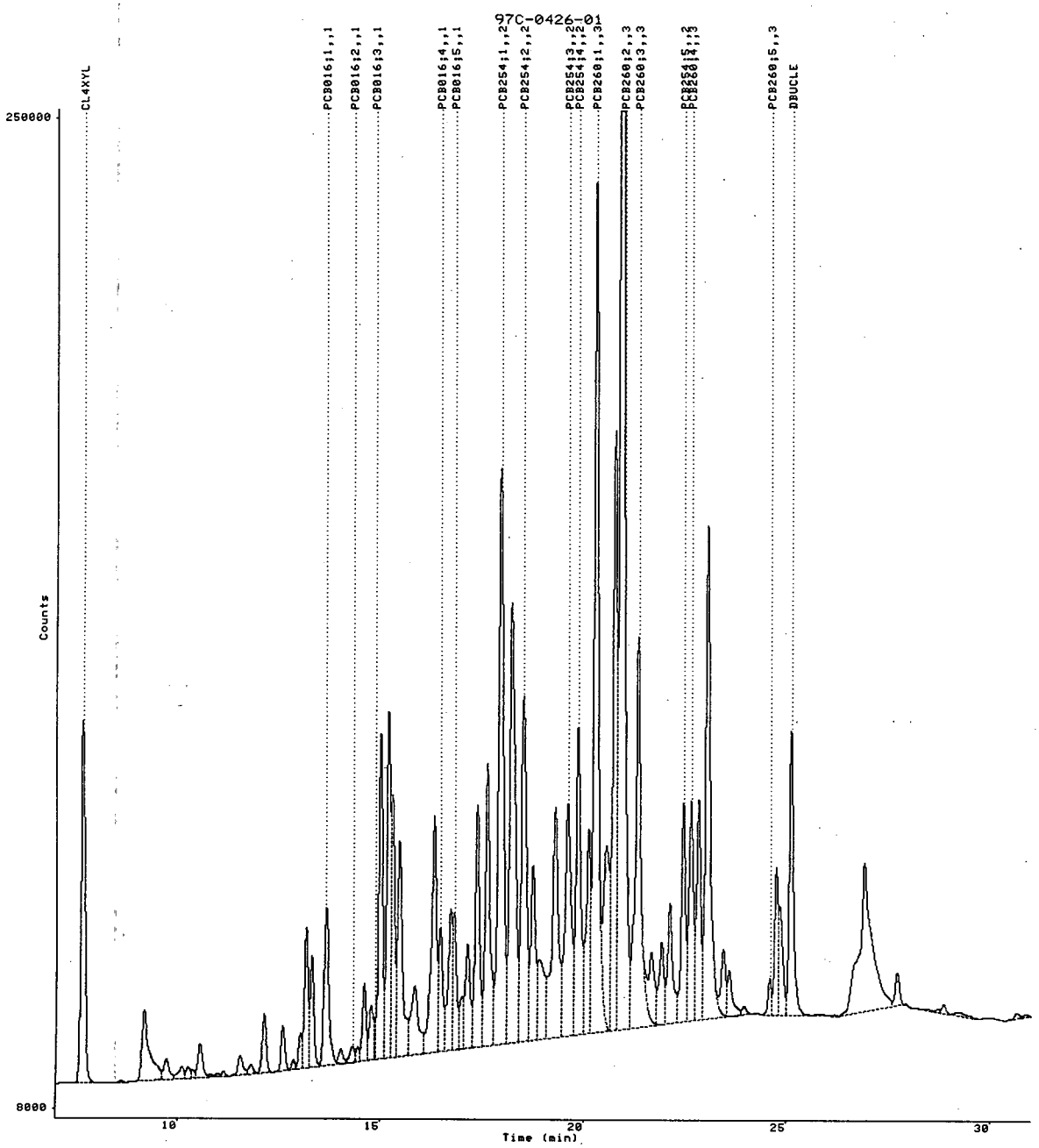
1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316039.RAW;1
Report: 1197248524
Acquired: 13-NOV-1997 15:51:32
Time range: 12.35-25.85



0322

Data file: DISK:[TAYLORC]5997316039.RAW;1
Report: 1197250772
Acquired: 13-NOV-1997 15:51:32
Time range: 7.00-31.00



97C05029

0323

Date.....17-NOV-1997 17:48:49.17 User: TAYLORC
Report number.....1197250773
Raw file.....DISK:[TAYLORC]5997316040.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 16:28:54
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05030
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....93
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.153			1773		BB	
	7.370			250		BB	
CL4XYL	7.643	1.76	20.63	81816		BB	
	7.949			1638		EB	
	8.340			1201		BB	
	8.641			282		BB	
	8.844			918		BB	
	9.166			76701		BV	

0324

	9.334				35698	VV	
	9.740				18165	VV	
	10.121				14093	VV	
	10.274				11108	VV	
	10.396				9633	VV	
	10.565				25439	VE	
	10.828				2389	EV	
	11.005				2481	EV	
	11.156				8026	VB	
	11.397				673	BV	
	11.560				31179	VV	
	11.832				8531	VB	
	12.150				59567	BB	
	12.456				1991	BV	
	12.607				45759	VV	
	12.874				24762	VV	
	13.036				47041	VV	
	13.175				124459	VV	
	13.315				98004	VV	
PCB016;1	13.670	-0.23	99.44		127598	VV	1
	14.028				35722	VV	
PCB016;2	14.340	0.15	43.51		23649	VV	1
	14.453				21033	VV	
	14.605				84068	VV	
	14.777				69669	VV	
PCB016;3	14.997	-6.28	436.5	+	306183	VV	1
	15.188				330447	VV	
	15.286				259317	VV	
	15.470				217226	VV	
	15.848				104252	VV	
	16.317				258878	VV	
PCB016;4	16.472	0.27	512.0	+	160814	VV	1
	16.723				192692	VV	
PCB016;5	16.806	1.56	361.5	+	178605	VV	1
	17.134				164396	VV	
	17.372				269915	VV	
	17.617				312230	VV	
PCB254;1	17.939	1.26			614017	VV	2
	18.217				459836	VV	
PCB254;2	18.521	-0.60			413804	VV	2
	18.750				266313	VV	
	18.907				285796	VV	
	19.113				192190	VV	
	19.300				349213	VV	
PCB254;3	19.618	-0.28			373025	VV	2
PCB254;4	19.862	0.16			460179	VV	2
	20.129				375133	VV	
PCB260;1	20.289	0.34	1019	+	925524	VV	3
	20.554				366204	VV	
	20.755				711062	VV	
PCB260;2	20.950	3.74	946.7	+	931729	VV	3
PCB260;3	21.330	1.68	343.3	+	422960	VV	3
	21.668				160045	VV	
	21.923				213017	VV	
	22.123				190896	VV	
PCB254;5	22.445	0.69			285663	VV	2
PCB260;4	22.641	0.92	368.9	+	257138	VV	3
	22.828				253304	VV	
	23.042				465280	VE	
	23.445				84520	EV	

	23.586			68267	EV	
	23.948			23151	VB	
PCB260;5	24.590	0.91	55.74	32615	BV	3
	24.739			138457	VV	
	24.830			99143	VV	
DBUCLE	25.114	0.92	41.94	146066	VB	
	25.502			22380	BB	
	26.086			83	BB	
	26.199			701	BB	
	26.381			4003	BV	
	26.636			17633	VV	
	26.908			80165	VE	
	27.235			5517	EB	
	27.482			814	BB	
	27.724			8872	BB	
	27.932			2020	BB	
	28.727			3767	BV	
	28.863			9072	VB	
	29.916			206	BB	
	30.662			6485	BV	
	30.872			2195	VB	
	32.035			324	BV	
CL10BP	32.525	3.44		32308	VB	
	33.122			177	BB	
	33.436			10584	BB	

GROUP REPORT

Group	UG/SAMPLE
1	1453
3	2733

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL R	Peak Name
1	7.153	11744	1773	0.009		BB	
2	7.370	1101	250	0.001		BB	
3	7.643	511921	81816	0.381		BE	CL4XYL
4	7.949	11767	1638	0.009		EB	
5	8.340	9717	1201	0.007		BB	
6	8.641	1583	282	0.001		BB	
7	8.844	5325	918	0.004		BB	
8	9.166	715484	76701	0.533		BV	
9	9.334	467829	35698	0.348		VV	
10	9.740	185440	18165	0.138		VV	
11	10.121	156521	14093	0.117		VV	
12	10.274	74596	11108	0.056		VV	
13	10.396	59048	9633	0.044		VV	
14	10.565	218453	25439	0.163		VE	
15	10.828	17443	2389	0.013		EV	
16	11.005	19450	2481	0.014		EV	
17	11.156	47500	8026	0.035		VB	
18	11.397	2957	673	0.002		BV	
19	11.560	220880	31179	0.164		VV	
20	11.832	65148	8531	0.048		VB	
21	12.150	413702	59567	0.308		BB	

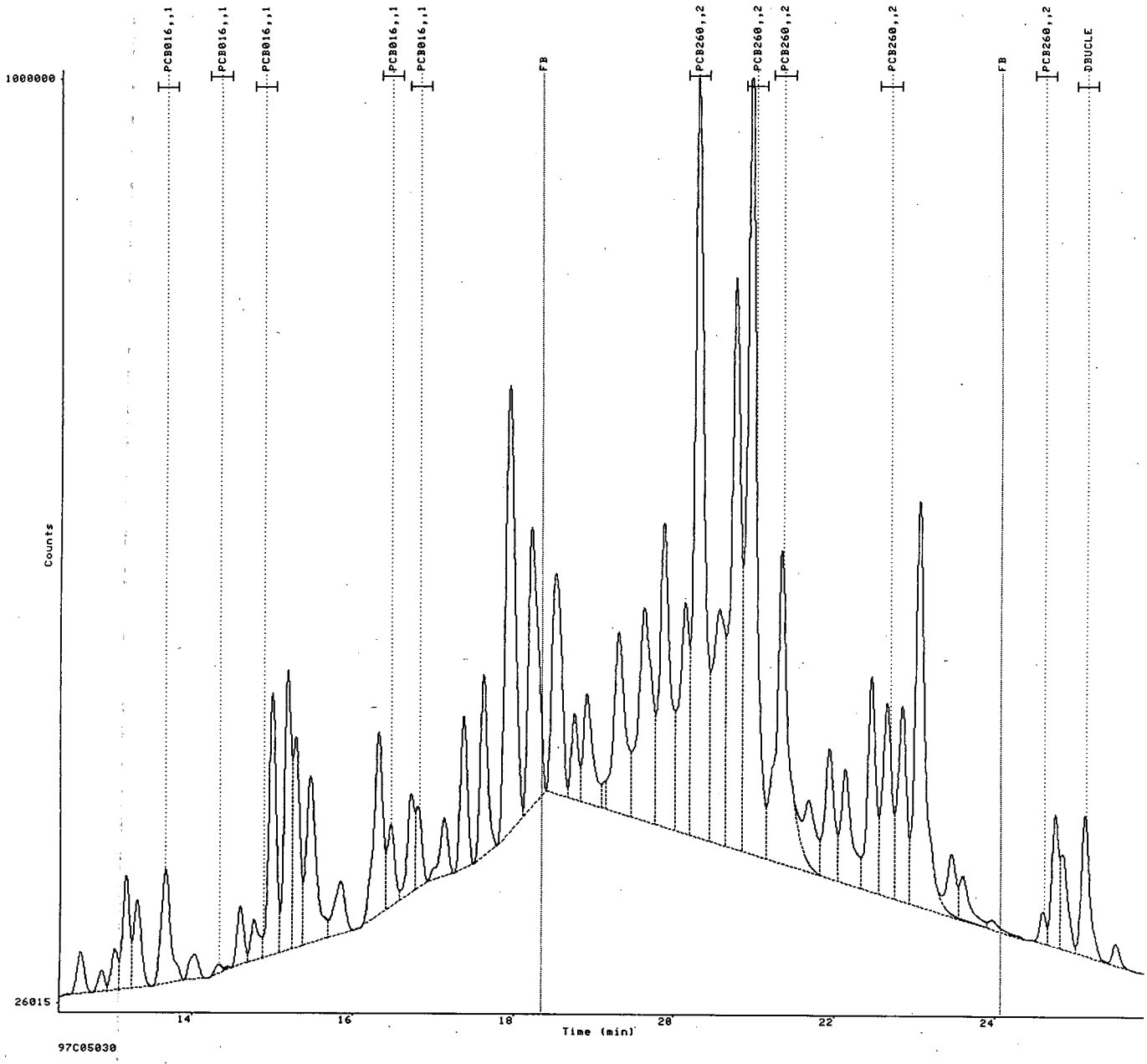
22	12.456	9387	1991	0.007	BV	
23	12.607	311639	45759	0.232	VV	
24	12.874	150544	24762	0.112	VV	
25	13.036	274829	47041	0.205	VV	
26	13.175	799316	124459	0.595	VV	
27	13.315	691149	98004	0.515	VV	
28	13.670	1170200	127598	0.871	VV	PCB016;1
29	14.028	381173	35722	0.284	VV	
30	14.340	222265	23649	0.165	VV	PCB016;2
31	14.453	106120	21033	0.079	VV	
32	14.605	644283	84068	0.480	VV	
33	14.777	607270	69669	0.452	VV	
34	14.997	2149974	306183	1.601	VV	PCB016;3
35	15.188	2129394	330447	1.585	VV	
36	15.286	1570889	259317	1.169	VV	
37	15.470	2380062	217226	1.772	VV	
38	15.848	1455862	104252	1.084	VV	
39	16.317	3015176	258878	2.245	VV	
40	16.472	1319576	160814	0.982	VV	PCB016;4
41	16.723	1606294	192692	1.196	VV	
42	16.806	1330148	178605	0.990	VV	PCB016;5
43	17.134	2449394	164396	1.823	VV	
44	17.372	2568270	269915	1.912	VV	
45	17.617	3314135	312230	2.467	VV	
46	17.939	6699895	614017	4.988	VV	PCB254;1
47	18.217	5508092	459836	4.101	VV	
48	18.521	4916830	413804	3.660	VV	PCB254;2
49	18.750	2202692	266313	1.640	VV	
50	18.907	3621252	285796	2.696	VV	
51	19.113	594150	192190	0.442	VV	
52	19.300	5045955	349213	3.756	VV	
53	19.618	5305833	373025	3.950	VV	PCB254;3
54	19.862	5063500	460179	3.770	VV	PCB254;4
55	20.129	3367941	375133	2.507	VV	
56	20.289	8665651	925524	6.451	VV +	PCB260;1
57	20.554	4008969	366204	2.985	VV	
58	20.755	6330350	711062	4.713	VV	
59	20.950	8682573	931729	6.464	VV +	PCB260;2
60	21.330	5976402	422960	4.449	VV	PCB260;3
61	21.668	1891605	160045	1.408	VV	
62	21.923	2179348	213017	1.622	VV	
63	22.123	2317491	190896	1.725	VV	
64	22.445	2412596	285663	1.796	VV	PCB254;5
65	22.641	2280396	257138	1.698	VV	PCB260;4
66	22.828	2106548	253304	1.568	VV	
67	23.042	4727439	465280	3.519	VE	
68	23.445	778625	84520	0.580	EV	
69	23.586	855912	68267	0.637	EV	
70	23.948	338855	23151	0.252	VB	
71	24.590	176387	32615	0.131	BV	PCB260;5
72	24.739	862679	138457	0.642	VV	
73	24.830	624470	99143	0.465	VV	
74	25.114	1083155	146066	0.806	VB	DBUCLE
75	25.502	138216	22380	0.103	BB	
76	26.086	215	83	0.000	BB	
77	26.199	3186	701	0.002	BB	
78	26.381	25029	4003	0.019	BV	
79	26.636	161368	17633	0.120	VV	
80	26.908	766943	80165	0.571	VE	
81	27.235	54351	5517	0.040	EB	

82	27.482	3739	814	0.003	BB	
83	27.724	57531	8872	0.043	BB	
84	27.932	11502	2020	0.009	BB	
85	28.727	21718	3767	0.016	BV	
86	28.863	63195	9072	0.047	VB	
87	29.916	1467	206	0.001	BB	
88	30.662	53946	6485	0.040	BV	
89	30.872	46770	2195	0.035	VB	
90	32.035	4372	324	0.003	BV	
91	32.525	313525	32308	0.233	VB	CL10BP
92	33.122	1132	177	0.001	BB	
93	33.436	97446	10584	0.073	BB	
Totals		134326200		100.000		

ANALYSIS NOTES

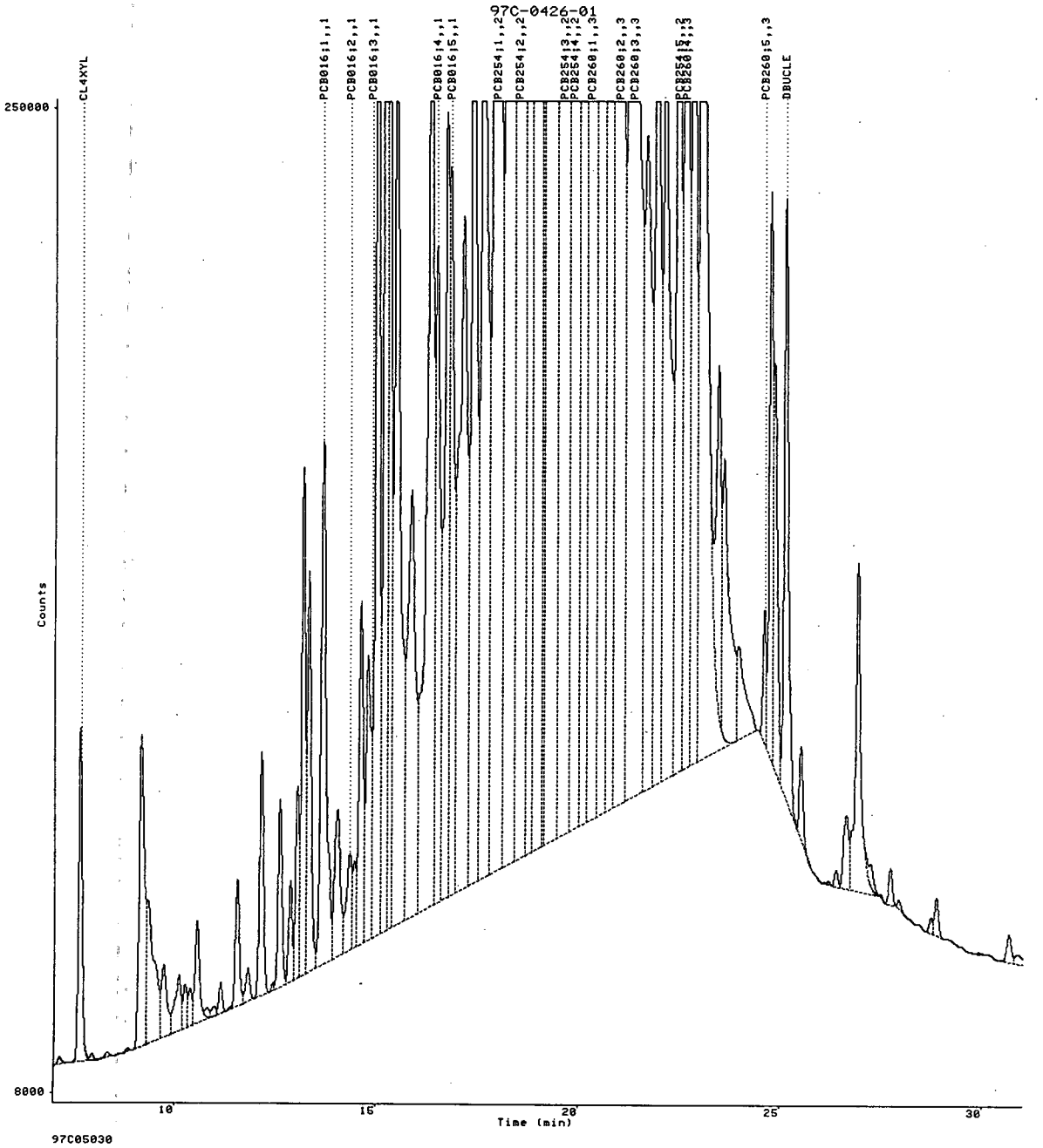
1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316040.RAW;1
Report: 1197248525
Acquired: 13-NOV-1997 16:28:54
Time range: 12.35-25.85



0329

Data file: DISK:[TAYLORC]5997316040.RAW;1
Report: 1197250773
Acquired: 13-NOV-1997 16:28:54
Time range: 7.00-31.00



0330

Date.....17-NOV-1997 17:49:01.72 User: TAYLORC
Report number.....1197250774
Raw file.....DISK:[TAYLORC]5997316041.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 17:06:19
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05031
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....	34.000 min	Delay time.....	7.000 min
Area reject.....	100 count(s)	No. peaks found.....	98
Noise threshold.....	10.0 microvolts	Area threshold.....	120
Start peak width....	6.00 sec(s)	Area/Pk.Ht.....	H
Min. window.....	8.00 sec	% window.....	0.00
Analysis type.....	EXTERNAL STANDARD	A/D range.....	1.0 volt(s)
Sample rack.....	25		
Sample vial.....	25		
Analysis fit.....	Quadratic	Origin treatment....	Ignore
Report units.....	UG/SAMPLE		
Sample amount.....	1.00000		
Volume injected.....	1.00000	Conversion factor...	3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
	7.126			730			BV	
	7.387			867			VV	
CL4XYL	7.648	1.43	19.56	77603			VB	
	8.360			235			BB	
	8.641			1525			BV	
	8.844			4502			VV	
	9.150			6027			VV	
	9.496			5409			VV	

0331

	9.755				202281	VV	
	10.125				15670	VV	
	10.278				16651	VV	
	10.570				55581	VE	
	10.832				5120	EB	
	11.403				3469	BV	
	11.568				9339	VV	
	11.708				4338	VV	
	11.827				5227	VV	
	12.151				24909	VB	
	12.438				127	BB	
	12.640				54578	BV	
	12.877				72033	VV	
	13.101				69168	VV	
	13.322				20861	VB	
PCB016;1	13.681	-0.89	60.77		77699	BV	1
	13.788				60578	VV	
	14.039				9248	VV	
PCB016;2	14.276	3.98	48.99		26673	VE	1
	14.437				724	EB	
	14.606				34525	BV	
PCB016;3	14.997	-6.29	827.6	+	840497	VV	1
	15.189				471614	VE	
	15.490				56608	EV	
	15.676				28561	EV	
	15.846				101850	VB	
	16.072				7256	BV	
	16.316				224552	VV	
PCB016;4	16.430	2.79	406.2	+	117797	VV	1
PCB016;5	16.811	1.24	557.7	+	338793	VV	1
	17.139				232263	VV	
	17.368				997364	VV	
	17.616				853616	VV	
PCB254;1	17.958	0.14			987600	VV	2
	18.236				987259	VV	
PCB254;2	18.511	-0.02			985746	VV	2
	18.744				408575	VE	
	18.977				45461	EV	
	19.292				717194	VV	
PCB254;3	19.601	0.72			982210	VV	2
PCB254;4	19.859	0.34			981963	VV	2
	20.128				973616	VV	
PCB260;1	20.290	0.28	1053	+	968825	VV	3
	20.548				934721	VV	
	20.760				965339	VV	
PCB260;2	20.993	1.17	986.5	+	973263	VV	3
PCB260;3	21.327	1.85	686.3	+	976148	VV	3
	21.670				382896	VV	
	21.904				263800	VV	
	22.121				980057	VV	
PCB254;5	22.458	-0.07			972718	VV	2
PCB260;4	22.644	0.70	1068	+	960599	VV	3
	22.826				958924	VV	
	23.042				969738	VV	
	23.446				660874	VV	
	23.591				574649	VV	
	23.934				230600	VB	
	24.283				8436	BV	
	24.349				8767	VV	
PCB260;5	24.591	0.82	516.7	+	447861	VV	3

	24.779				963848	VV
DBUCLE	25.119	0.61	226.0	+	970601	VE
	25.372				56718	EV
	25.571				195190	EV
	25.858				95929	VV
	26.042				35613	VV
	26.202				19701	VV
	26.641				195254	VV
	26.904				830734	VE
	27.225				74395	EV
	27.518				22112	VV
	27.720				73131	VE
	27.930				9004	EV
	28.109				12340	EV
	28.292				2621	VV
	28.440				4615	VB
	28.733				40189	BV
	28.865				91155	VV
	29.336				19304	VV
	29.635				5005	VV
	29.911				1884	VV
	30.203				1145	VB
	30.662				28596	BB
	31.364				519	BB
	31.766				1278	BV
	32.033				1694	VV
CL10BP	32.524	3.45			35418	VB
	33.128				1018	BB
	33.434				4820	BV
	33.627				2068	VB

GROUP REPORT

Group	UG/SAMPLE
1	1901
3	4311

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL R	Peak Name
1	7.126	6045	730	0.002		BV	
2	7.387	6612	867	0.002		VV	
3	7.648	535494	77603	0.182		VB	CL4XYL
4	8.360	1799	235	0.001		BB	
5	8.641	8933	1525	0.003		BV	
6	8.844	28908	4502	0.010		VV	
7	9.150	57201	6027	0.019		VV	
8	9.496	34108	5409	0.012		VV	
9	9.755	1385707	202281	0.472		VV	
10	10.125	101242	15670	0.034		VV	
11	10.278	131877	16651	0.045		VV	
12	10.570	422761	55581	0.144		VE	
13	10.832	32396	5120	0.011		EB	
14	11.403	20342	3469	0.007		BV	
15	11.568	87668	9339	0.030		VV	
16	11.708	19420	4338	0.007		VV	
17	11.827	38046	5227	0.013		VV	

18	12.151	188404	24909	0.064	VB	
19	12.438	523	127	0.000	BB	
20	12.640	365951	54578	0.125	BV	
21	12.877	428795	72033	0.146	VV	
22	13.101	657983	69168	0.224	VV	
23	13.322	133854	20861	0.046	VB	
24	13.681	629483	77699	0.214	BV	PCB016;1
25	13.788	355276	60578	0.121	VV	
26	14.039	61899	9248	0.021	VV	
27	14.276	228908	26673	0.078	VE	PCB016;2
28	14.437	2556	724	0.001	EB	
29	14.606	209999	34525	0.072	BV	
30	14.997	5630714	840497	1.918	VV	PCB016;3
31	15.189	4263969	471614	1.453	VE	
32	15.490	343685	56608	0.117	EV	
33	15.676	146002	28561	0.050	EV	
34	15.846	890203	101850	0.303	VB	
35	16.072	35214	7256	0.012	BV	
36	16.316	1808505	224552	0.616	VV	
37	16.430	725074	117797	0.247	VV	PCB016;4
38	16.811	2962609	338793	1.009	VV	PCB016;5
39	17.139	1845698	232263	0.629	VV	
40	17.368	7765211	997364	2.645	VV +	
41	17.616	5999260	853616	2.044	VV	
42	17.958	13455296	987600	4.584	VV +	PCB254;1
43	18.236	13851471	987259	4.719	VV +	
44	18.511	11889252	985746	4.050	VV +	PCB254;2
45	18.744	2858320	408575	0.974	VE	
46	18.977	316136	45461	0.108	EV	
47	19.292	5310800	717194	1.809	VV	
48	19.601	10446622	982210	3.559	VV +	PCB254;3
49	19.859	10243064	981963	3.490	VV +	PCB254;4
50	20.128	7198604	973616	2.452	VV +	
51	20.290	13276558	968825	4.523	VV +	PCB260;1
52	20.548	8672539	934721	2.955	VV	
53	20.760	12952806	965339	4.413	VV +	
54	20.993	12356040	973263	4.209	VV +	PCB260;2
55	21.327	15800676	976148	5.383	VV +	PCB260;3
56	21.670	2877336	382896	0.980	VV	
57	21.904	2030357	263800	0.692	VV	
58	22.121	7726303	980057	2.632	VV +	
59	22.458	9539208	972718	3.250	VV +	PCB254;5
60	22.644	11011701	960599	3.751	VV +	PCB260;4
61	22.826	10001961	958924	3.407	VV +	
62	23.042	16324405	969738	5.561	VV +	
63	23.446	4938569	660874	1.682	VV	
64	23.591	5316618	574649	1.811	VV	
65	23.934	1662134	230600	0.566	VB	
66	24.283	48044	8436	0.016	BV	
67	24.349	38155	8767	0.013	VV	
68	24.591	2647664	447861	0.902	VV	PCB260;5
69	24.779	15803667	963848	5.384	VV +	
70	25.119	11332888	970601	3.861	VE +	DBUCLE
71	25.372	418265	56718	0.142	EV	
72	25.571	1712926	195190	0.584	EV	
73	25.858	623469	95929	0.212	VV	
74	26.042	272989	35613	0.093	VV	
75	26.202	143473	19701	0.049	VV	
76	26.641	2263833	195254	0.771	VV	
77	26.904	5729946	830734	1.952	VE	

78	27.225	921357	74395	0.314	EV	
79	27.518	173858	22112	0.059	VV	
80	27.720	621351	73131	0.212	VE	
81	27.930	56510	9004	0.019	EV	
82	28.109	87001	12340	0.030	EV	
83	28.292	16123	2621	0.005	VV	
84	28.440	35320	4615	0.012	VB	
85	28.733	236090	40189	0.080	BV	
86	28.865	732058	91155	0.249	VV	
87	29.336	150015	19304	0.051	VV	
88	29.635	40990	5005	0.014	VV	
89	29.911	18390	1884	0.006	VV	
90	30.203	9961	1145	0.003	VB	
91	30.662	252474	28596	0.086	BB	
92	31.364	4933	519	0.002	BB	
93	31.766	11711	1278	0.004	BV	
94	32.033	20875	1694	0.007	VV	
95	32.524	373902	35418	0.127	VB	CL10BP
96	33.128	8633	1018	0.003	BB	
97	33.434	52309	4820	0.018	BV	
98	33.627	19267	2068	0.007	VB	
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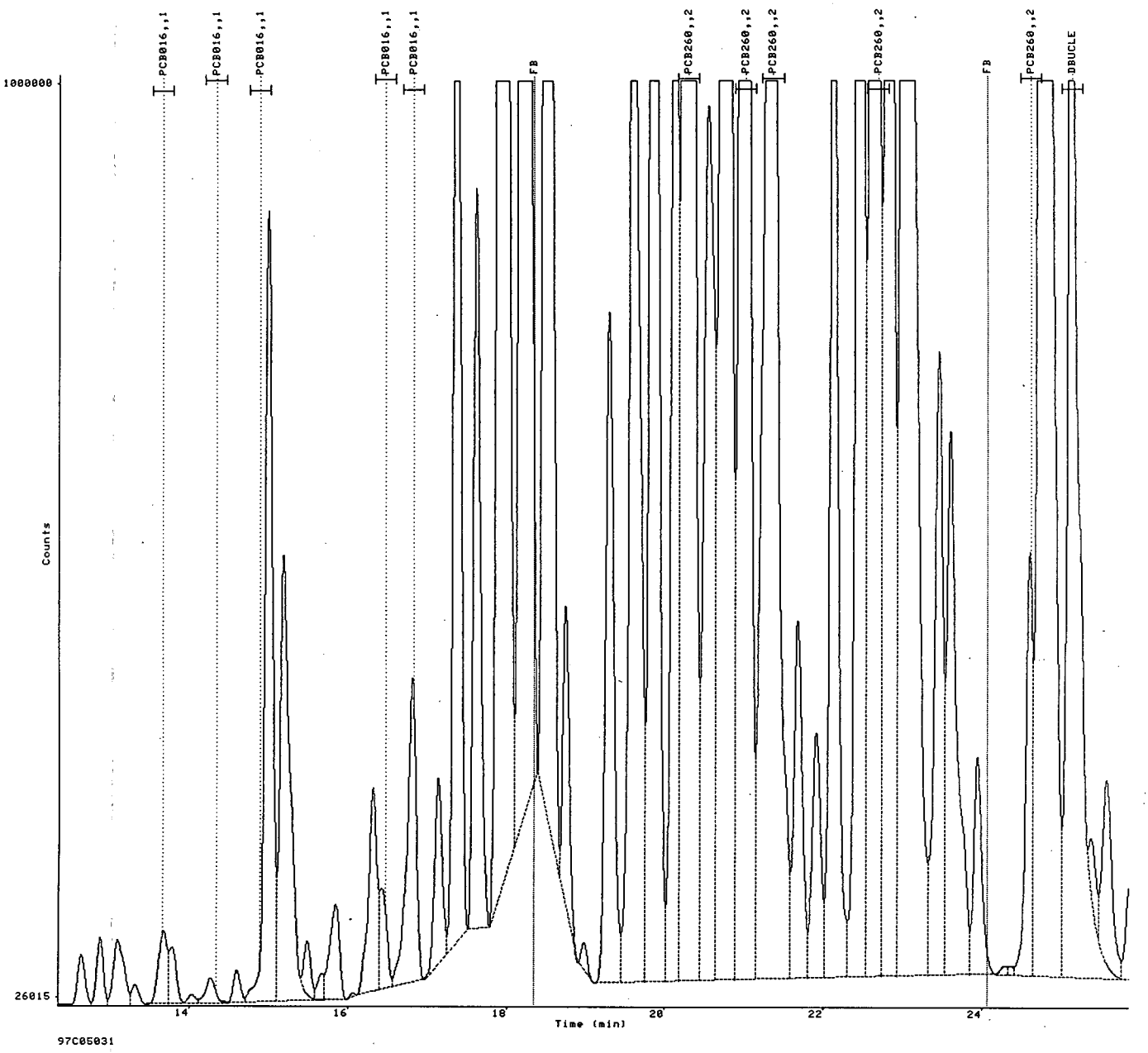
Totals		293533557		100.000		

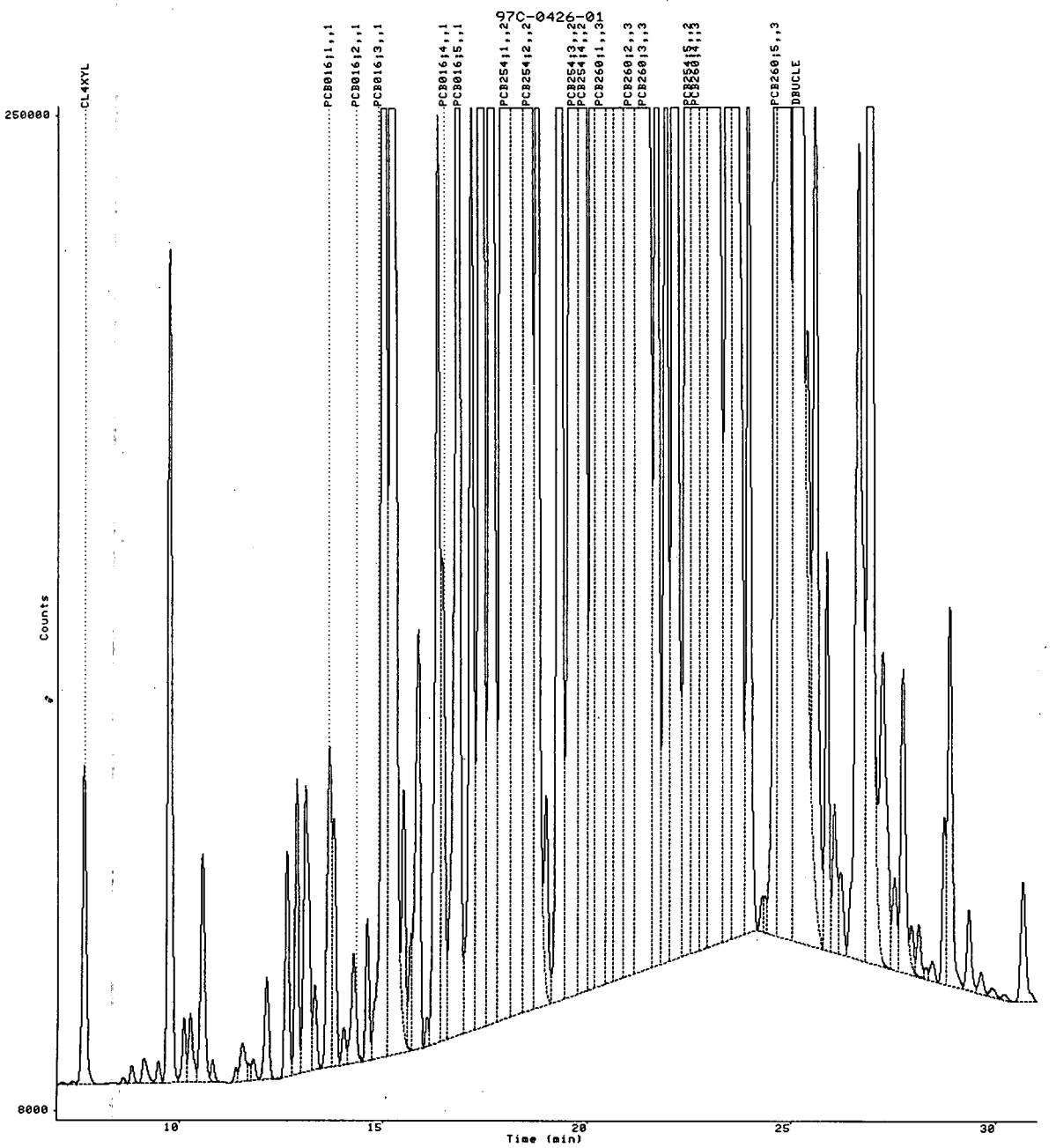
ANALYSIS NOTES

1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316041.RAW;1
Report: 1197248526
Acquired: 13-NOV-1997 17:06:19
Time range: 12.35-25.85



Data file: DISK:[TAYLORC]5997316041.RAW;1
Report: 1197250774
Acquired: 13-NOV-1997 17:06:19
Time range: 7.00-31.00



97C05031

0337

Date.....17-NOV-1997 17:49:16.28 User: TAYLORC
Report number.....1197250775
Raw file.....DISK:[TAYLORC]5997316042.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 17:43:37
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05033
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
      length.....30 M
      diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.000 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....91
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
21.01	PCB260;2	3		
22.46	PCB254;5	2		
22.66	PCB260;4	3		

0338

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE		Peak Ht	Ref Std	BL	Group
	7.123				1198		BV	
	7.371				1098		VV	
CL4XYL	7.648	1.42	23.27		92260		VB	
	8.249				253		BV	
	8.342				281		VB	
	8.643				809		BB	
	8.845				2205		BV	
	9.142				7300		VV	
	9.496				7925		VV	
	9.755				136360		VV	
	10.122				14311		VV	
	10.278				35283		VV	
	10.569				113061		VE	
	10.832				11795		EB	
	11.406				7572		BV	
	11.560				13878		VV	
	11.713				7506		VV	
	11.815				5839		VV	
	12.149				17758		VB	
	12.438				108		BB	
	12.643				99788		BV	
	12.877				46848		VV	
	13.098				122664		VE	
	13.319				11908		EB	
PCB016;1	13.700	-2.03	77.94		99799		BV	1
	13.789				122060		VE	
	14.035				5223		EV	
PCB016;2	14.270	4.30	88.45		48769		VB	1
	14.606				28687		BV	
PCB016;3	14.998	-6.34	918.1	+	999115		VV	1
	15.189				795179		VE	
	15.490				72438		EV	
	15.842				88410		EB	
	16.073				4376		BV	
	16.316				369090		VV	
PCB016;4	16.419	3.50	606.2	+	203376		VV	1
PCB016;5	16.811	1.26	848.3	+	657849		VV	1
	17.000				39658		VV	
	17.144				424120		VV	
	17.374				985032		VV	
	17.618				997215		VV	
PCB254;1	17.966	-0.35			983900		VV	2
	18.243				978221		VV	
PCB254;2	18.518	-0.43			982885		VV	2
	18.744				770178		VE	
	18.975				24728		EV	
	19.294				982406		VV	
PCB254;3	19.629	-0.98			968422		VV	2
PCB254;4	19.861	0.24			971375		VV	2
PCB260;1	20.265	1.81	1047	+	961271		VV	3
	20.830				949264		VV	
PCB260;3	21.316	2.50	671.5	+	949557		VV	3
	21.510				411880		VV	
	21.670				715259		VV	
	21.892				390599		VV	
	22.129				959957		VV	
	22.807				941878		VV	
	23.447				940775		VV	
	23.589				951040		VV	

	23.933				431788	VB	
	24.313				16008	BV	
PCB260;5	24.588	1.02	825.9	+	870202	VV	3
	24.797				936979	VV	
DBUCLE	25.149	-1.22	222.2	+	950716	VV	
	25.371				304754	VV	
	25.570				396582	VV	
	25.855				198704	VV	
	26.040				75959	VV	
	26.203				40682	VV	
	26.640				390042	VV	
	26.902				967025	VE	
	27.225				146145	EV	
	27.519				49987	VV	
	27.716				99387	VE	
	27.933				17385	EV	
	28.109				28531	VE	
	28.284				4266	EV	
	28.441				8896	VB	
	28.732				79995	BV	
	28.865				178772	VB	
	29.336				43892	BV	
	29.634				11718	VV	
	29.912				4644	VV	
	30.203				1773	VB	
	30.662				56977	BB	
	31.379				1279	BB	
	31.761				3184	BB	
CL10BP	32.522	3.60			46489	BB	
	33.130				3889	BV	
	33.432				4503	VV	
	33.674				2444	VB	

GROUP REPORT

Group	UG/SAMPLE
1	2539
3	2544

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL R	Peak Name
1	7.123	9088	1198	0.002		BV	
2	7.371	8389	1098	0.002		VV	
3	7.648	662309	92260	0.177		VB	CL4XYL
4	8.249	1385	253	0.000		BV	
5	8.342	1652	281	0.000		VB	
6	8.643	4636	809	0.001		BB	
7	8.845	13988	2205	0.004		BV	
8	9.142	65700	7300	0.018		VV	
9	9.496	49692	7925	0.013		VV	
10	9.755	949703	136360	0.253		VV	
11	10.122	97638	14311	0.026		VV	
12	10.278	263696	35283	0.070		VV	
13	10.569	868670	113061	0.232		VE	
14	10.832	78347	11795	0.021		EB	

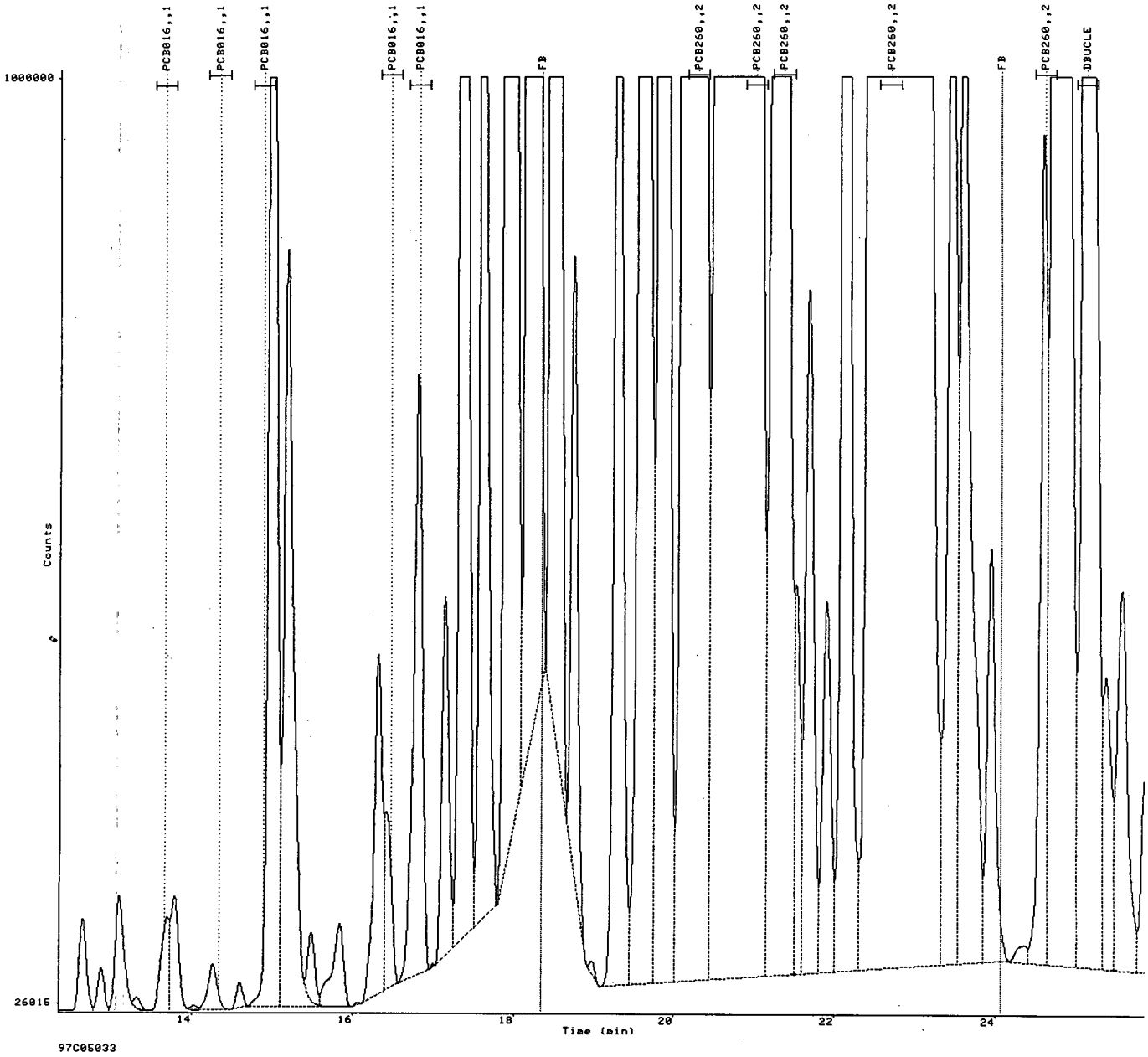
15	11.406	41727	7572	0.011	BV	
16	11.560	149967	13878	0.040	VV	
17	11.713	43674	7506	0.012	VV	
18	11.815	35890	5839	0.010	VV	
19	12.149	142343	17758	0.038	VB	
20	12.438	383	108	0.000	BB	
21	12.643	659051	99788	0.176	BV	
22	12.877	275585	46848	0.073	VV	
23	13.098	994254	122664	0.265	VE	
24	13.319	69424	11908	0.019	EB	
25	13.700	694655	99799	0.185	BV	PCB016;1
26	13.789	861793	122060	0.230	VE	
27	14.035	30738	5223	0.008	EV	
28	14.270	403506	48769	0.108	VB	PCB016;2
29	14.606	174060	28687	0.046	BV	
30	14.998	8652119	999115	2.307	VV +	PCB016;3
31	15.189	6598742	795179	1.760	VE	
32	15.490	450185	72438	0.120	EV	
33	15.842	897825	88410	0.239	EB	
34	16.073	19877	4376	0.005	BV	
35	16.316	2723498	369090	0.726	VV	
36	16.419	1237469	203376	0.330	VV	PCB016;4
37	16.811	5314392	657849	1.417	VV	PCB016;5
38	17.000	147709	39658	0.039	VV	
39	17.144	2902482	424120	0.774	VV	
40	17.374	10210337	985032	2.723	VV +	
41	17.618	9106650	997215	2.429	VV +	
42	17.966	13757084	983900	3.669	VV +	PCB254;1
43	18.243	15264320	978221	4.071	VV +	
44	18.518	12589475	982885	3.357	VV +	PCB254;2
45	18.744	5243010	770178	1.398	VE	
46	18.975	146825	24728	0.039	EV	
47	19.294	8610738	982406	2.296	VV +	
48	19.629	13207530	968422	3.522	VV +	PCB254;3
49	19.861	12186580	971375	3.250	VV +	PCB254;4
50	20.265	22340005	961271	5.957	VV +	PCB260;1
51	20.830	38769269	949264	10.339	VV +	
52	21.316	17480732	949557	4.662	VV +	PCB260;3
53	21.510	1897940	411880	0.506	VV	
54	21.670	5411848	715259	1.443	VV	
55	21.892	2849455	390599	0.760	VV	
56	22.129	10029359	959957	2.675	VV +	
57	22.807	50715799	941878	13.525	VV +	
58	23.447	8560420	940775	2.283	VV +	
59	23.589	9898830	951040	2.640	VV +	
60	23.933	3147376	431788	0.839	VB	
61	24.313	166279	16008	0.044	BV	
62	24.588	5117875	870202	1.365	VV	PCB260;5
63	24.797	18369070	936979	4.899	VV +	
64	25.149	14661406	950716	3.910	VV +	DBUCLE
65	25.371	2088921	304754	0.557	VV	
66	25.570	3750397	396582	1.000	VV	
67	25.855	1305694	198704	0.348	VV	
68	26.040	622658	75959	0.166	VV	
69	26.203	265931	40682	0.071	VV	
70	26.640	4409616	390042	1.176	VV	
71	26.902	9262174	967025	2.470	VE +	
72	27.225	1732068	146145	0.462	EV	
73	27.519	395506	49987	0.105	VV	
74	27.716	865971	99387	0.231	VE	

75	27.933	110309	17385	0.029	EV	
76	28.109	209976	28531	0.056	VE	
77	28.284	27404	4266	0.007	EV	
78	28.441	67326	8896	0.018	VB	
79	28.732	466861	79995	0.124	BV	
80	28.865	1416057	178772	0.378	VB	
81	29.336	332413	43892	0.089	BV	
82	29.634	97816	11718	0.026	VV	
83	29.912	48235	4644	0.013	VV	
84	30.203	16606	1773	0.004	VB	
85	30.662	505569	56977	0.135	BB	
86	31.379	12311	1279	0.003	BB	
87	31.761	28072	3184	0.007	BB	
88	32.522	503067	46489	0.134	BB	CL10BP
89	33.130	39487	3889	0.011	BV	
90	33.432	48752	4503	0.013	VV	
91	33.674	26980	2444	0.007	VB	
Totals		374990630		100.000		

ANALYSIS NOTES

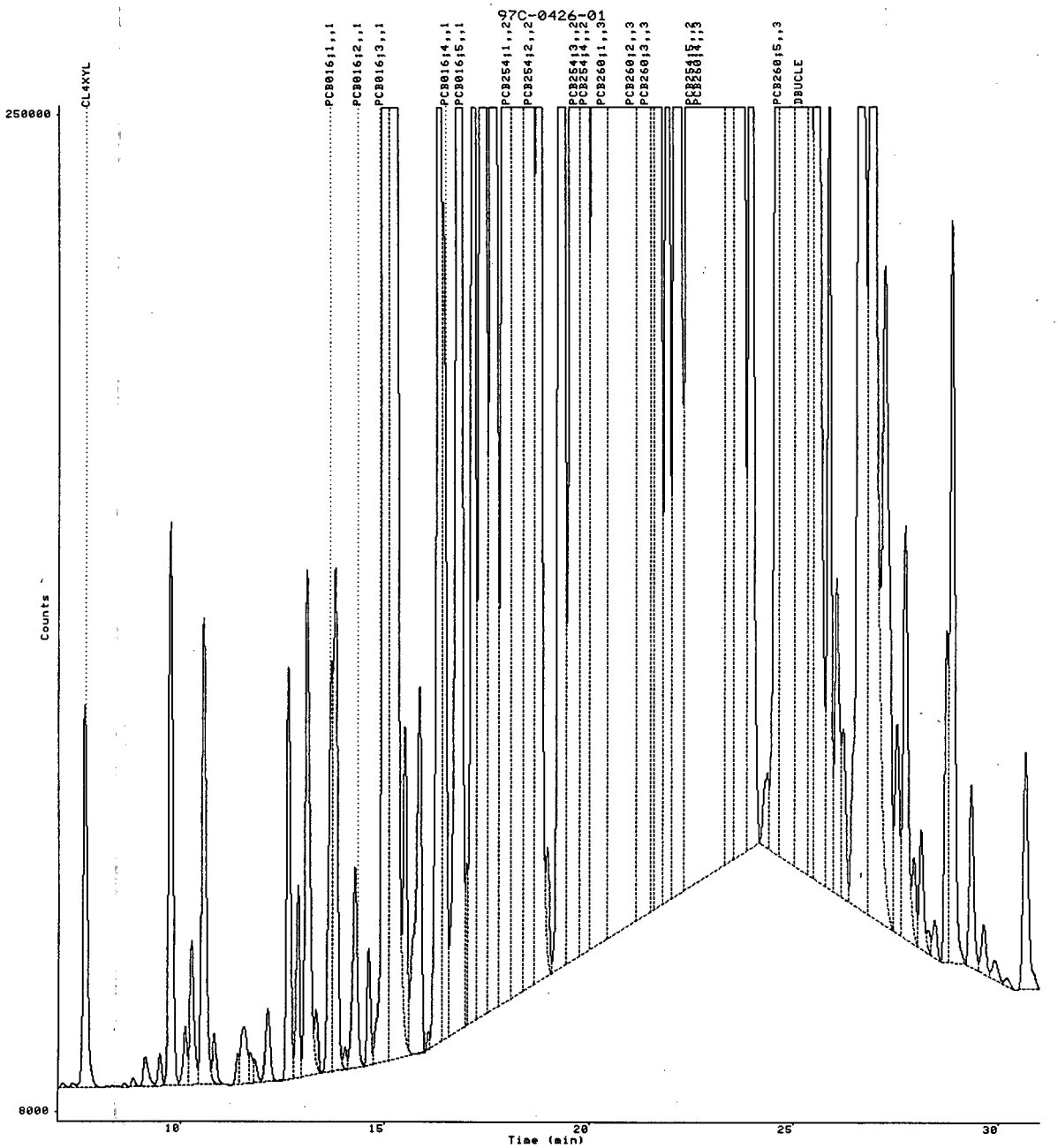
1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316042.RAW;1
Report: 1197248527
Acquired: 13-NOV-1997 17:43:37
Time range: 12.35-25.85



0343

Data file: DISK:[TAYLORC]5997316042.RAW;1
Report: 1197250775
Acquired: 13-NOV-1997 17:43:37
Time range: 7.00-31.00



97C05033

0344

Date.....17-NOV-1997 17:49:29.30 User: TAYLORC
Report number.....1197250776
Raw file.....DISK:[TAYLORC]5997316043.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 18:21:00
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05033MS
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.000 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....96
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
	7.131			867			BV	
	7.386			833			VV	
CL4XYL	7.652	1.20	18.39	72960			VE	
	8.345			380			EB	
	8.646			1097			BV	
	8.848			3939			VV	
	9.160			6160			VV	
	9.502			7002			VV	

0345

	9.758				89944	VV	
	10.127				13092	VV	
	10.281				22391	VV	
	10.394				17092	VV	
	10.572				72937	VE	
	10.834				6963	EB	
	11.407				4621	BV	
	11.570				9149	VV	
	11.720				5072	VV	
	11.828				6301	VV	
	12.152				39364	VB	
	12.642				60279	BV	
	12.876				27654	VV	
	13.099				80539	VV	
	13.340				21650	VB	
PCB016;1	13.680	-0.85	75.23		96311	BV	1
	13.786				74057	VB	
	14.045				3462	BV	
PCB016;2	14.297	2.69	63.27		34603	VB	1
	14.607				23594	BV	
PCB016;3	14.998	-6.33	857.7	+	891739	VV	1
	15.189				447328	VE	
	15.486				43277	EV	
	15.843				59413	EB	
	16.072				3035	BV	
	16.316				204673	VV	
PCB016;4	16.426	3.09	408.4	+	118642	VV	1
PCB016;5	16.811	1.28	586.0	+	365608	VV	1
	17.143				236694	VV	
	17.369				992447	VV	
	17.616				850938	VV	
PCB254;1	17.952	0.45			988848	VV	2
	18.230				988929	VV	
PCB254;2	18.506	0.31			987975	VV	2
	18.743				404970	VE	
	18.973				21671	EV	
	19.292				659116	VV	
PCB254;3	19.599	0.81			986433	VV	2
PCB254;4	19.858	0.43			980227	VV	2
	20.126				986678	VV	
PCB260;1	20.286	0.55	1055	+	971289	VV	3
	20.544				935744	VV	
	20.766				972284	VV	
PCB260;2	20.995	1.00	984.7	+	971371	VV	3
PCB260;3	21.328	1.82	687.0	+	977394	VV	3
	21.670				371436	VV	
	21.896				215132	VV	
	22.119				983070	VV	
PCB254;5	22.458	-0.08			980026	VV	2
PCB260;4	22.645	0.66	1068	+	960131	VV	3
	22.820				963479	VV	
	23.040				970539	VV	
	23.444				658873	VV	
	23.589				573112	VV	
	23.932				222131	VB	
	24.289				6628	BV	
	24.358				7949	VV	
PCB260;5	24.589	0.95	512.3	+	442738	VV	3
	24.785				969826	VV	
DBUCLE	25.116	0.77	226.8	+	974429	VE	

	25.369		61170	EV
	25.571		173125	EV
	25.857		93487	VV
	26.040		38219	VV
	26.197		21040	VV
	26.640		193350	VV
	26.902		817467	VE
	27.224		73993	EV
	27.517		23060	VV
	27.717		56634	VE
	27.928		7626	EV
	28.109		13374	EV
	28.283		3049	VV
	28.441		4437	VB
	28.730		38439	BV
	28.865		87885	VV
	29.333		19670	VV
	29.632		5260	VV
	29.918		2461	VV
	30.199		1276	VB
	30.659		26332	BB
	31.391		702	BV
	31.756		1540	VV
	32.019		677	VV
CL10BP	32.520	3.73	30882	VB
	33.130		1227	BV
	33.431		3709	VV
	33.653		1867	VB

GROUP REPORT

Group	UG/SAMPLE
1	1991
3	4307

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL R	Peak Name
1	7.131	7824	867	0.003		BV	
2	7.386	6950	833	0.002		VV	
3	7.652	544583	72960	0.189		VE	CL4XYL
4	8.345	3919	380	0.001		EB	
5	8.646	6348	1097	0.002		BV	
6	8.848	26068	3939	0.009		VV	
7	9.160	62093	6160	0.022		VV	
8	9.502	46806	7002	0.016		VV	
9	9.758	632945	89944	0.220		VV	
10	10.127	87568	13092	0.030		VV	
11	10.281	151751	22391	0.053		VV	
12	10.394	96732	17092	0.034		VV	
13	10.572	572122	72937	0.199		VE	
14	10.834	49197	6963	0.017		EB	
15	11.407	26961	4621	0.009		BV	
16	11.570	91857	9149	0.032		VV	
17	11.720	24509	5072	0.009		VV	
18	11.828	46360	6301	0.016		VV	
19	12.152	287173	39364	0.100		VB	

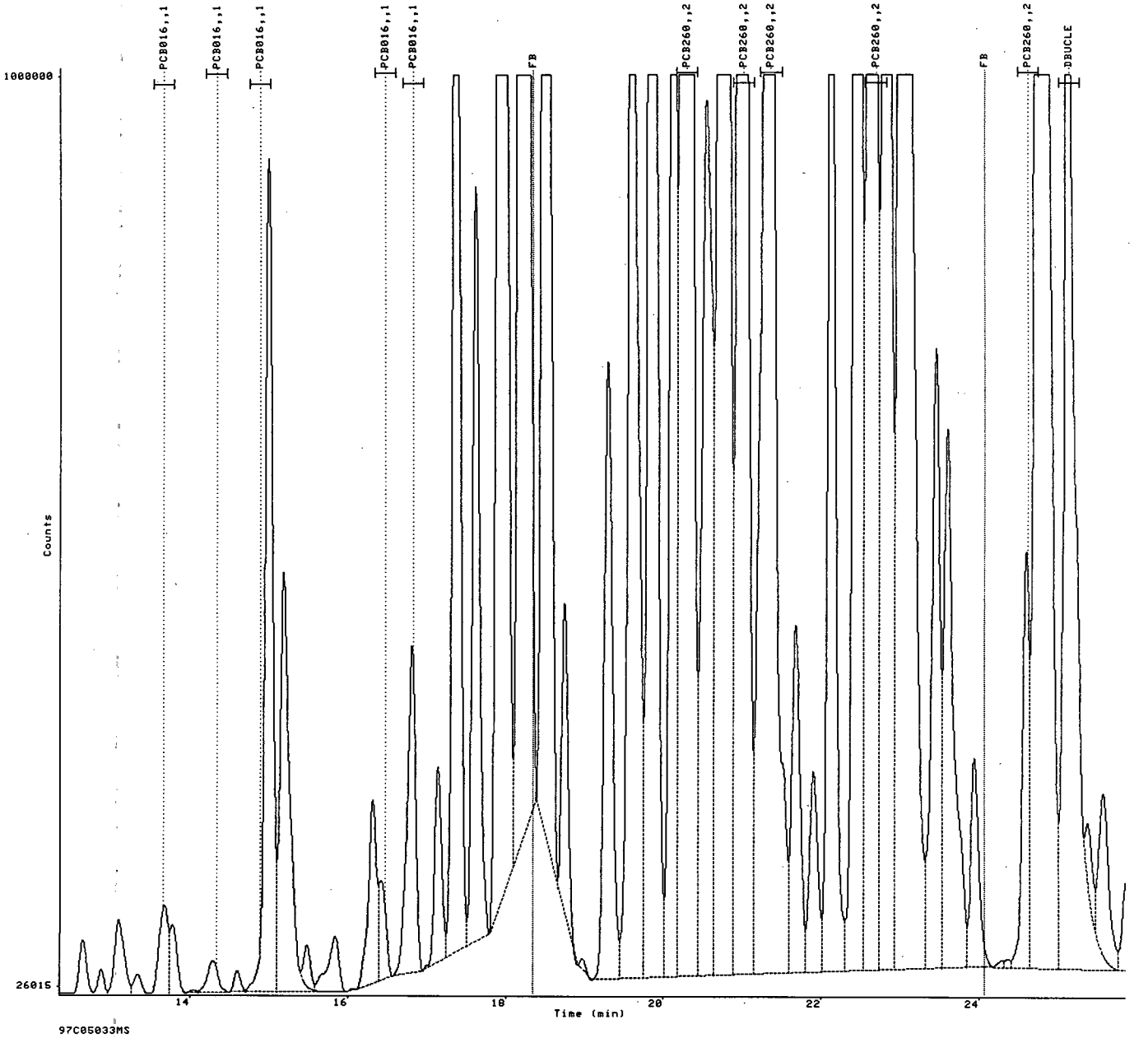
20	12.642	408820	60279	0.142	BV	
21	12.876	159746	27654	0.055	VV	
22	13.099	702312	80539	0.244	VV	
23	13.340	151616	21650	0.053	VB	
24	13.680	802972	96311	0.279	BV	PCB016;1
25	13.786	426028	74057	0.148	VB	
26	14.045	18459	3462	0.006	BV	
27	14.297	332926	34603	0.116	VB	PCB016;2
28	14.607	138891	23594	0.048	BV	
29	14.998	5999056	891739	2.082	VV	PCB016;3
30	15.189	3850259	447328	1.336	VE	
31	15.486	265538	43277	0.092	EV	
32	15.843	610677	59413	0.212	EB	
33	16.072	13635	3035	0.005	BV	
34	16.316	1563747	204673	0.543	VV	
35	16.426	757920	118642	0.263	VV	PCB016;4
36	16.811	2994901	365608	1.039	VV	PCB016;5
37	17.143	1756034	236694	0.609	VV	
38	17.369	8168575	992447	2.834	VV +	
39	17.616	5902212	850938	2.048	VV	
40	17.952	12326588	988848	4.277	VV +	PCB254;1
41	18.230	13588814	988929	4.715	VV +	
42	18.506	10946523	987975	3.798	VV +	PCB254;2
43	18.743	2756456	404970	0.956	VE	
44	18.973	133883	21671	0.046	EV	
45	19.292	4847062	659116	1.682	VV	
46	19.599	10241575	986433	3.554	VV +	PCB254;3
47	19.858	10376862	980227	3.601	VV +	PCB254;4
48	20.126	7239690	986678	2.512	VV +	
49	20.286	13320552	971289	4.622	VV +	PCB260;1
50	20.544	8642372	935744	2.999	VV	
51	20.766	13047984	972284	4.527	VV +	
52	20.995	12338620	971371	4.281	VV +	PCB260;2
53	21.328	15484751	977394	5.373	VV +	PCB260;3
54	21.670	2785993	371436	0.967	VV	
55	21.896	1599529	215132	0.555	VV	
56	22.119	7621266	983070	2.644	VV +	
57	22.458	9779721	980026	3.393	VV +	PCB254;5
58	22.645	10980506	960131	3.810	VV +	PCB260;4
59	22.820	9977241	963479	3.462	VV +	
60	23.040	16259516	970539	5.642	VV +	
61	23.444	4890156	658873	1.697	VV	
62	23.589	5241659	573112	1.819	VV	
63	23.932	1611880	222131	0.559	VB	
64	24.289	30846	6628	0.011	BV	
65	24.358	40572	7949	0.014	VV	
66	24.589	2609392	442738	0.905	VV	PCB260;5
67	24.785	15859652	969826	5.503	VV +	
68	25.116	11285579	974429	3.916	VE +	DBUCLE
69	25.369	440707	61170	0.153	EV	
70	25.571	1560023	173125	0.541	EV	
71	25.857	620040	93487	0.215	VV	
72	26.040	324271	38219	0.113	VV	
73	26.197	137440	21040	0.048	VV	
74	26.640	2206728	193350	0.766	VV	
75	26.902	5618128	817467	1.949	VE	
76	27.224	918297	73993	0.319	EV	
77	27.517	181341	23060	0.063	VV	
78	27.717	492856	56634	0.171	VE	
79	27.928	48040	7626	0.017	EV	

80	28.109	96166	13374	0.033	EV	
81	28.283	19408	3049	0.007	VV	
82	28.441	34122	4437	0.012	VB	
83	28.730	224087	38439	0.078	BV	
84	28.865	708172	87885	0.246	VV	
85	29.333	157751	19670	0.055	VV	
86	29.632	44153	5260	0.015	VV	
87	29.918	28483	2461	0.010	VV	
88	30.199	11890	1276	0.004	VB	
89	30.659	231953	26332	0.080	BB	
90	31.391	7864	702	0.003	BV	
91	31.756	15104	1540	0.005	VV	
92	32.019	7290	677	0.003	VV	
93	32.520	328993	30882	0.114	VB	CL10BP
94	33.130	11373	1227	0.004	BV	
95	33.431	38923	3709	0.014	VV	
96	33.653	19857	1867	0.007	VB	
Totals		288194790		100.000		

ANALYSIS NOTES

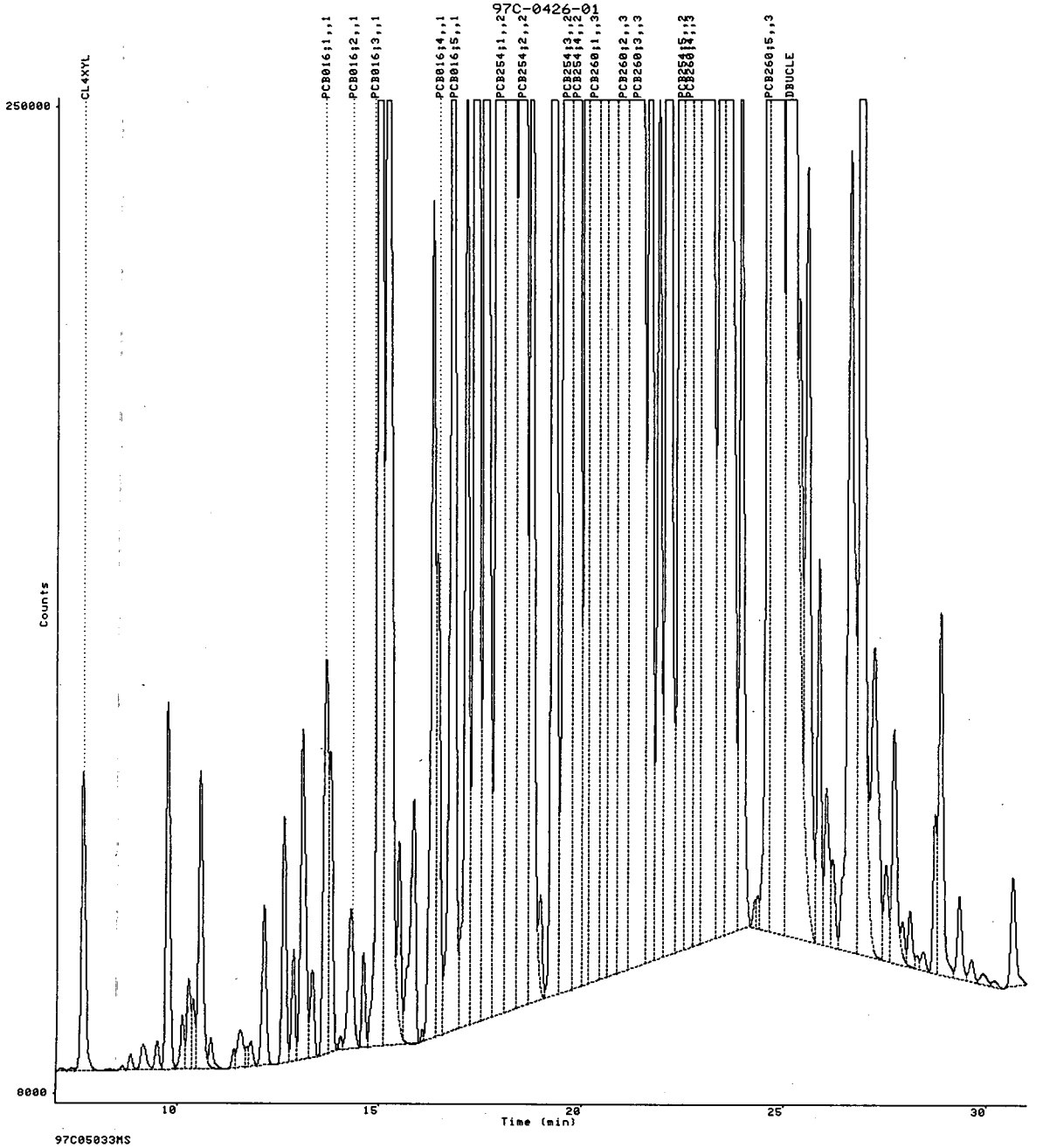
1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316043.RAW;1
Report: 1197248528
Acquired: 13-NOV-1997 18:21:00
Time range: 12.35-25.85



0350

Data file: DISK:[TAYLORC]5997316043.RAW;1
Report: 1197250776
Acquired: 13-NOV-1997 18:21:00
Time range: 7.00-31.00



0351

Date.....17-NOV-1997 17:49:43.22 User: TAYLORC
Report number.....1197250777
Raw file.....DISK:[TAYLORC]5997316044.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 18:58:18
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05033MSD
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.000 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....93
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
21.01	PCB260;2	3		
22.46	PCB254;5	2		
22.66	PCB260;4	3		

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE		Peak Ht	Ref Std	BL	Group
	7.119				1336		BV	
	7.366				1079		VV	
CL4XYL	7.643	1.73	28.48		112798		VB	
	8.241				273		BV	
	8.342				325		VB	
	8.637				1104		BB	
	8.839				2367		BV	
	9.145				8310		VV	
	9.494				10851		VV	
	9.749				107626		VV	
	10.119				17400		VV	
	10.271				45022		VV	
	10.386				23111		VV	
	10.564				140308		VE	
	10.827				15338		EB	
	11.398				8948		BV	
	11.585				12141		VV	
	11.713				7840		VV	
	11.819				7909		VV	
	12.147				46330		VB	
	12.441				91		BB	
	12.637				109202		BV	
	12.872				32123		VV	
	13.093				146348		VE	
	13.337				21915		EB	
PCB016;1	13.686	-1.22	102.9		132053		BV	1
	13.784				138515		VE	
	14.031				3269		EV	
PCB016;2	14.281	3.67	103.9		57554		VB	1
	14.602				25134		BV	
PCB016;3	14.998	-6.34	919.1	+	1000966		VV	1
	15.186				759886		VE	
	15.483				66012		EV	
	15.838				73550		EB	
	16.069				2749		BV	
	16.313				323828		VV	
PCB016;4	16.419	3.46	612.9	+	206584		VV	1
PCB016;5	16.809	1.41	860.2	+	672975		VV	1
	16.999				44509		VV	
	17.143				441384		VV	
	17.374				996349		VV	
	17.616				995811		VV	
PCB254;1	17.963	-0.19			986859		VV	2
	18.243				977833		VV	
PCB254;2	18.515	-0.25			983445		VV	2
	18.742				762626		VE	
	18.972				17837		EV	
	19.293				985760		VV	
PCB254;3	19.626	-0.76			970950		VV	2
PCB254;4	19.859	0.37			972498		VV	2
PCB260;1	20.263	1.93	1047	+	960817		VV	3
	20.827				949980		VV	
PCB260;3	21.319	2.31	672.5	+	951302		VV	3
	21.513				439070		VV	
	21.670				716804		VV	
	21.890				375781		VV	
	22.124				964572		VV	
	22.814				941863		VV	
	23.451				947166		VV	

	23.587				953967	VV	
	23.932				450699	VB	
	24.316				15936	BV	
PCB260;5	24.590	0.89	846.3	+	902224	VV	3
	24.799				942369	VV	
DBUCLE	25.149	-1.19	222.1	+	950257	VV	
	25.369				325135	VV	
	25.572				382865	VV	
	25.855				198590	VV	
	26.042				77570	VV	
	26.198				43802	VV	
	26.640				412009	VV	
	26.906				968746	VE	
	27.226				152681	EV	
	27.519				54665	VV	
	27.718				106155	VE	
	27.930				18007	EV	
	28.109				30484	VE	
	28.282				4484	EV	
	28.441				9299	VB	
	28.732				86535	BV	
	28.866				193480	VV	
	29.336				45691	VV	
	29.635				13748	VV	
	29.920				6061	VV	
	30.211				2557	VB	
	30.662				59287	BE	
	31.076				832	EB	
	31.377				1445	BB	
	31.758				3513	BB	
CL10BP	32.522	3.63			56464	BB	
	33.132				4447	BV	
	33.428				4728	VV	
	33.686				3083	VB	

GROUP REPORT

Group	UG/SAMPLE
1	2599
3	2566

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL R	Peak Name
1	7.119	9086	1336	0.002		BV	
2	7.366	8050	1079	0.002		VV	
3	7.643	733227	112798	0.195		VB	CL4XYL
4	8.241	1544	273	0.000		BV	
5	8.342	1723	325	0.000		VB	
6	8.637	6501	1104	0.002		BB	
7	8.839	13833	2367	0.004		BV	
8	9.145	76447	8310	0.020		VV	
9	9.494	66571	10851	0.018		VV	
10	9.749	696762	107626	0.185		VV	
11	10.119	113801	17400	0.030		VV	
12	10.271	292927	45022	0.078		VV	

13	10.386	113276	23111	0.030	VV	
14	10.564	1028707	140308	0.273	VE	
15	10.827	96518	15338	0.026	EB	
16	11.398	54584	8948	0.015	BV	
17	11.585	113380	12141	0.030	VV	
18	11.713	42769	7840	0.011	VV	
19	11.819	52588	7909	0.014	VV	
20	12.147	327922	46330	0.087	VB	
21	12.441	321	91	0.000	BB	
22	12.637	711190	109202	0.189	BV	
23	12.872	184967	32123	0.049	VV	
24	13.093	1158244	146348	0.308	VE	
25	13.337	140817	21915	0.037	EB	
26	13.686	1046669	132053	0.278	BV	PCB016;1
27	13.784	889460	138515	0.236	VE	
28	14.031	17298	3269	0.005	EV	
29	14.281	547768	57554	0.146	VB	PCB016;2
30	14.602	144191	25134	0.038	BV	
31	14.998	8635930	1000966	2.295	VV +	PCB016;3
32	15.186	6277778	759886	1.668	VE	
33	15.483	412961	66012	0.110	EV	
34	15.838	767154	73550	0.204	EB	
35	16.069	11777	2749	0.003	BV	
36	16.313	2350288	323828	0.625	VV	
37	16.419	1340503	206584	0.356	VV	PCB016;4
38	16.809	5380518	672975	1.430	VV	PCB016;5
39	16.999	187740	44509	0.050	VV	
40	17.143	2954098	441384	0.785	VV	
41	17.374	10218635	996349	2.716	VV +	
42	17.616	8876498	995811	2.359	VV +	
43	17.963	13464526	986859	3.579	VV +	PCB254;1
44	18.243	15144543	977833	4.025	VV +	
45	18.515	12324688	983445	3.276	VV +	PCB254;2
46	18.742	5142587	762626	1.367	VE	
47	18.972	99019	17837	0.026	EV	
48	19.293	8089485	985760	2.150	VV +	
49	19.626	13101311	970950	3.482	VV +	PCB254;3
50	19.859	12203386	972498	3.243	VV +	PCB254;4
51	20.263	22386579	960817	5.950	VV +	PCB260;1
52	20.827	38867807	949980	10.330	VV +	
53	21.319	17355094	951302	4.613	VV +	PCB260;3
54	21.513	2180485	439070	0.580	VV	
55	21.670	5387203	716804	1.432	VV	
56	21.890	2693013	375781	0.716	VV	
57	22.124	10044279	964572	2.670	VV +	
58	22.814	50925237	941863	13.535	VV +	
59	23.451	8620733	947166	2.291	VV +	
60	23.587	10041846	953967	2.669	VV +	
61	23.932	3273045	450699	0.870	VB	
62	24.316	162813	15936	0.043	BV	
63	24.590	5335377	902224	1.418	VV	PCB260;5
64	24.799	18459202	942369	4.906	VV +	
65	25.149	14837676	950257	3.944	VV +	DBUCLE
66	25.369	2246463	325135	0.597	VV	
67	25.572	3714655	382865	0.987	VV	
68	25.855	1301733	198590	0.346	VV	
69	26.042	637744	77570	0.169	VV	
70	26.198	297756	43802	0.079	VV	
71	26.640	4687801	412009	1.246	VV	
72	26.906	9511971	968746	2.528	VE +	

73	27.226	1802379	152681	0.479	EV	
74	27.519	436080	54665	0.116	VV	
75	27.718	944451	106155	0.251	VE	
76	27.930	115976	18007	0.031	EV	
77	28.109	226979	30484	0.060	VE	
78	28.282	29369	4484	0.008	EV	
79	28.441	70077	9299	0.019	VB	
80	28.732	509285	86535	0.135	BV	
81	28.866	1560678	193480	0.415	VV	
82	29.336	371409	45691	0.099	VV	
83	29.635	122308	13748	0.033	VV	
84	29.920	67781	6061	0.018	VV	
85	30.211	25100	2557	0.007	VB	
86	30.662	541177	59287	0.144	BE	
87	31.076	6566	832	0.002	EB	
88	31.377	14262	1445	0.004	BB	
89	31.758	30435	3513	0.008	BB	
90	32.522	603819	56464	0.160	BB	CL10BP
91	33.132	46794	4447	0.012	BV	
92	33.428	51164	4728	0.014	VV	
93	33.686	34763	3083	0.009	VB	
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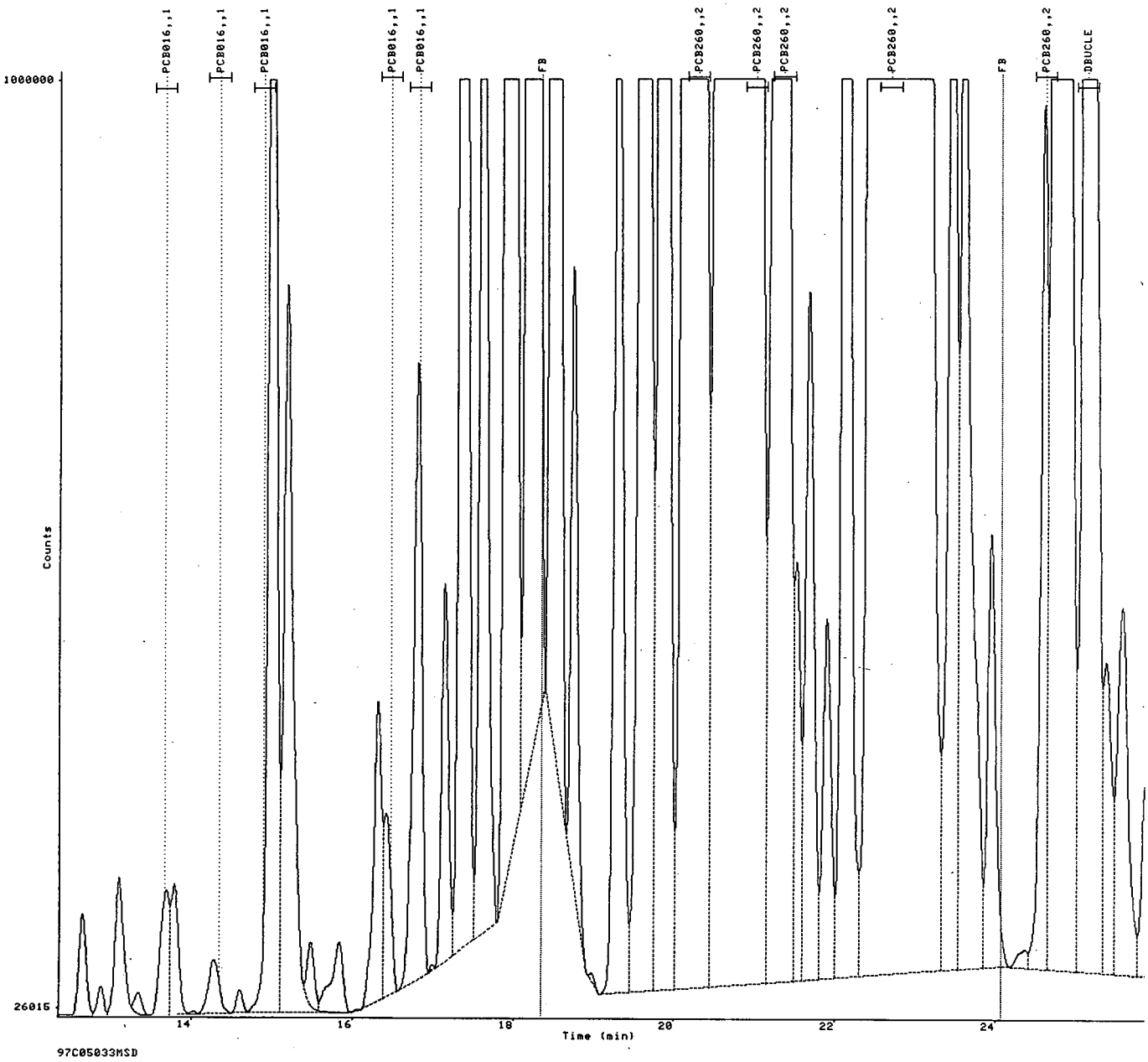
Totals		376253930		100.000		

ANALYSIS NOTES

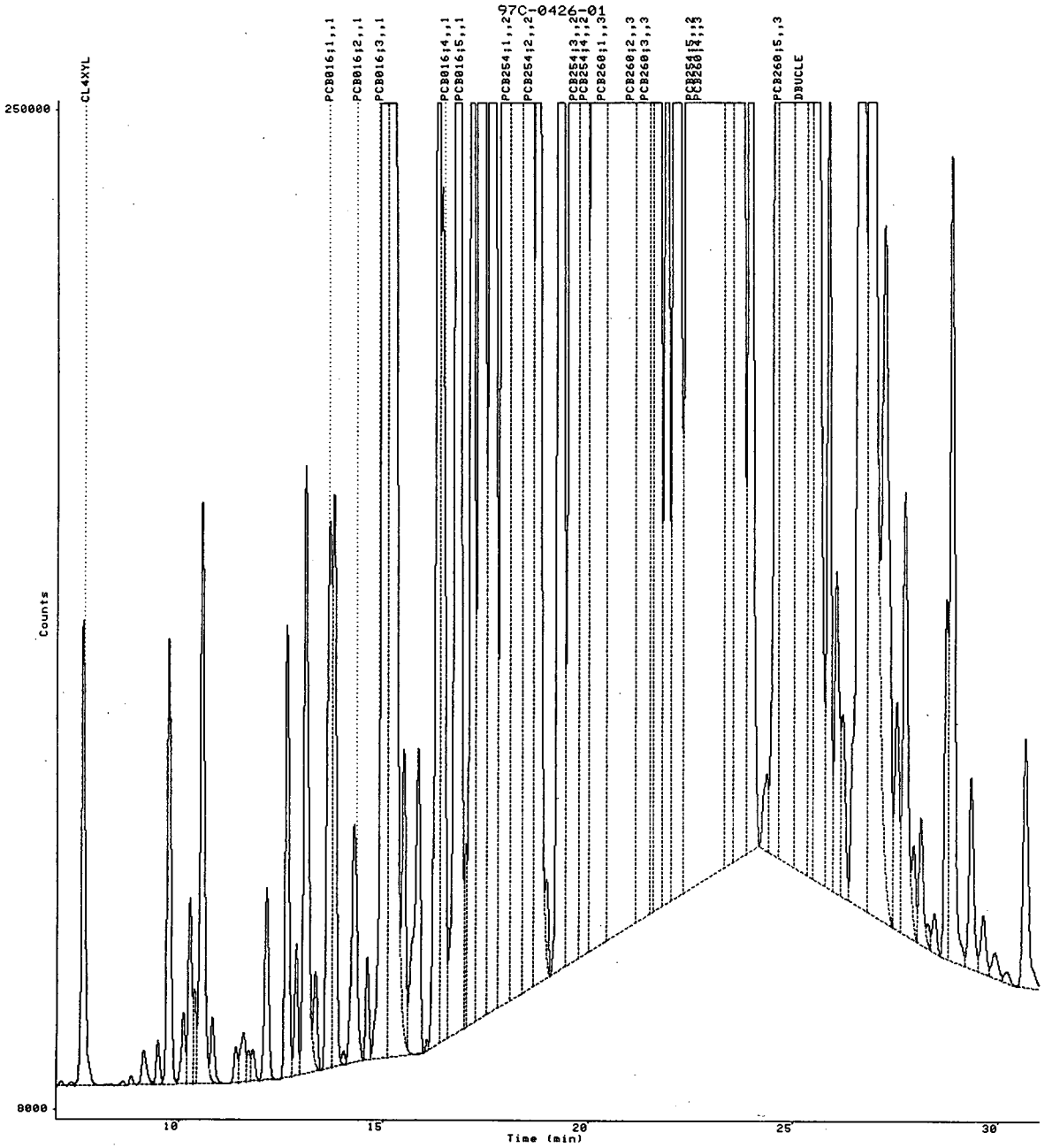
1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316044.RAW;1
Report: 1197248529
Acquired: 13-NOV-1997 18:58:18
Time range: 12.35-25.85



0357

Data file: DISK:[TAYLORC]5997316044.RAW;1
Report: 1197250777
Acquired: 13-NOV-1997 18:58:18
Time range: 7.00-31.00



97C05033MSD

0358

Date.....17-NOV-1997 17:50:10.81 User: TAYLORC
Report number.....1197250780
Raw file.....DISK:[TAYLORC]5997316046.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 20:12:57
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05032
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....77
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.241			209		BB	
CL4XYL	7.651	1.28	20.82	82554		BB	
	8.249			122		BB	
	9.141			4069		BB	
	9.748			2756		BB	
	10.288			465		BB	
	10.579			3032		BB	
	11.382			312		BV	

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	11.587				682	VB	
	12.153				457	BB	
	12.649				1738	BV	
	12.876				898	VB	
	13.105				2255	BB	
PCB016;1	13.705	-2.34	1.418		1864	BV	1
	13.798				2267	VE	
	13.994				294	EB	
PCB016;2	14.296	2.75	2.131		1183	BB	1
	14.609				372	BB	
PCB016;3	15.002	-6.61	82.09		34134	BV	1
	15.194				17235	VE	
	15.467				4022	EB	
	15.844				1089	BB	
	16.320				6205	BV	
PCB016;4	16.438	2.37	16.49		3306	VV	1
PCB016;5	16.813	1.14	30.11		9084	VB	1
	17.152				3017	BV	
	17.377				36315	VV	
	17.622				16147	VV	
PCB254;1	17.947	0.75	178.0	+	123488	VV	2
	18.212				132295	VV	
PCB254;2	18.501	0.58			93127	VE	2
	18.749				9135	EV	
	18.973				747	VB	
	19.296				22396	BV	
PCB254;3	19.602	0.64	162.1	+	45486	VV	2
PCB254;4	19.855	0.59	181.7	+	90515	VV	2
	20.124				46188	VV	
PCB260;1	20.288	0.41	359.7	+	248715	VE	3
	20.561				27994	EV	
	20.761				161832	VV	
PCB260;2	20.979	1.99	107.0		99767	VV	3
PCB260;3	21.331	1.62	109.6		120703	VE	3
	21.672				9357	EV	
	21.892				3884	EV	
	22.123				28994	VV	
PCB254;5	22.452	0.29	212.6	+	56039	VV	2
PCB260;4	22.641	0.91	106.1		65900	VV	3
	22.830				57128	VV	
	23.047				166925	VE	
	23.449				14433	EV	
	23.598				13070	EV	
	23.935				9722	VB	
	24.244				81	BB	
PCB260;5	24.594	0.65	17.32		9584	BV	3
	24.742				52488	VV	
	24.831				30576	VV	
DBUCLE	25.103	1.54	18.09		60124	VE	
	25.373				7263	EV	
	25.579				7129	EV	
	25.860				4159	VV	
	26.043				1530	VV	
	26.229				582	VV	
	26.667				7369	VV	
	26.912				26077	VE	
	27.723				3964	EV	
	27.855				3368	EV	
	28.108				1085	EB	
	28.726				468	BV	

	28.865		1095	VB
	29.316		559	BB
	29.684		201	BB
	29.928		147	BB
	30.235		969	BB
	30.663		1006	BB
CL10BP	32.527	3.29	28148	BB
	33.142		423	BB
	33.758		543	BB

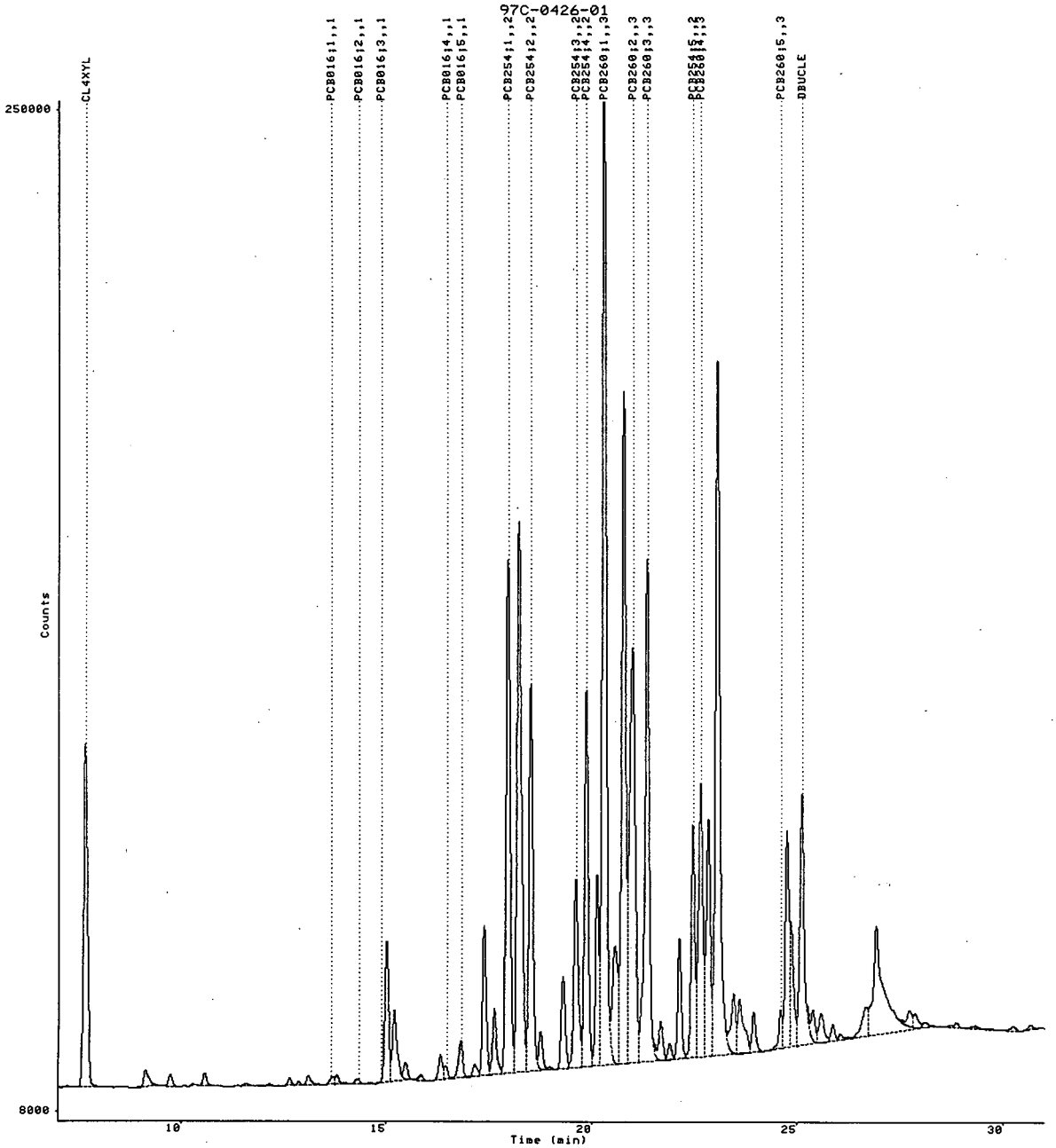
GROUP REPORT

Group	UG/SAMPLE
1	132.2
2	734.4
3	699.7

ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316046.RAW;1
Report: 1197250780
Acquired: 13-NOV-1997 20:12:57
Time range: 7.00-31.00



97C05032

0362

Date.....17-NOV-1997 17:50:25.01 User: TAYLORC
Report number.....1197250781
Raw file.....DISK:[TAYLORC]5997316047.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 20:50:19
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05034
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.000 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....98
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.119			1089		BV	
	7.371			955		VV	
CL4XYL	7.644	1.69	24.34	96449		VB	
	8.243			94		BV	
	8.343			223		VB	
	8.636			440		BB	
	8.839			777		BB	
	9.138			6719		BV	

0363

	9.492				5019	VV	
	9.751				258729	VE	
	10.120				13410	EV	
	10.275				22129	EV	
	10.567				76897	VE	
	10.829				7393	EB	
	11.401				4658	BV	
	11.582				8176	VV	
	11.708				4256	VV	
	11.821				3830	VB	
	12.148				23802	BB	
	12.433				132	BB	
	12.641				65443	BV	
	12.876				93006	VV	
	13.102				90057	VV	
	13.319				24262	VB	
PCB016;1	13.691	-1.48	55.83		71348	BV	1
	13.790				81058	VE	
	14.039				6448	EV	
PCB016;2	14.272	4.21	63.71		34850	VE	1
	14.439				1104	EB	
	14.606				27103	BV	
PCB016;3	14.996	-6.26	901.5	+	968947	VV	1
	15.189				578849	VE	
	15.492				75880	EV	
	15.674				33681	EV	
	15.849				132528	VB	
	16.071				10857	BV	
	16.316				243044	VV	
PCB016;4	16.421	3.36	465.9	+	141452	VV	1
PCB016;5	16.811	1.24	633.9	+	412970	VV	1
	17.136				265797	VV	
	17.372				997976	VV	
	17.618				988195	VV	
PCB254;1	17.965	-0.29			985566	VV	2
	18.236				978123	VV	
PCB254;2	18.520	-0.56			985476	VV	2
	18.745				477709	VE	
	18.983				55962	EV	
	19.293				958350	VV	
PCB254;3	19.609	0.26			983729	VV	2
PCB254;4	19.859	0.36			985820	VV	2
PCB260;1	20.252	2.59	1051	+	965754	VV	3
	20.558				972373	VV	
	20.774				964302	VV	
PCB260;2	20.997	0.87	981.3	+	967778	VV	3
PCB260;3	21.329	1.75	685.3	+	974342	VV	3
	21.672				458578	VV	
	21.901				265509	VV	
	22.122				979281	VV	
PCB254;5	22.464	-0.44			972050	VV	2
PCB260;4	22.714	-3.49	1062	+	952378	VV	3
	23.046				963823	VV	
	23.448				768190	VV	
	23.592				677156	VV	
	23.935				250787	VB	
	24.264				5534	BV	
	24.342				5795	VV	
PCB260;5	24.592	0.78	569.0	+	511184	VV	3
	24.782				962415	VV	

DBUCLE	25.119	0.59	225.8	+	969549	VE
	25.375				68938	EV
	25.573				219045	EV
	25.859				104607	VV
	26.042				39050	VV
	26.204				19944	VV
	26.644				228963	VV
	26.905				968203	VE
	27.227				88069	EV
	27.518				24944	VV
	27.711				44807	VV
	27.935				11877	VV
	28.111				12255	VV
	28.296				3298	VV
	28.440				5157	VB
	28.734				46124	BV
	28.868				105391	VB
	29.338				19401	BV
	29.639				5849	VV
	29.900				2143	VV
	30.180				725	VB
	30.664				32857	BB
	31.092				353	BB
	31.405				800	BV
	31.759				1956	VV
	32.024				2793	VB
CL10BP	32.528	3.27			45606	BB
	33.135				1492	BV
	33.437				3311	VV
	33.660				1545	VB

GROUP REPORT

Group	UG/SAMPLE
1	2121
3	4348

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref	Std	BL	R	Peak Name
1	7.119	8234	1089	0.003			BV		
2	7.371	6633	955	0.002			VV		
3	7.644	616972	96449	0.193			VB		CL4XYL
4	8.243	382	94	0.000			BV		
5	8.343	1131	223	0.000			VB		
6	8.636	2455	440	0.001			BB		
7	8.839	4226	777	0.001			BB		
8	9.138	56012	6719	0.018			BV		
9	9.492	30044	5019	0.009			VV		
10	9.751	1707688	258729	0.536			VE		
11	10.120	86272	13410	0.027			EV		
12	10.275	166611	22129	0.052			EV		
13	10.567	574303	76897	0.180			VE		
14	10.829	53654	7393	0.017			EB		
15	11.401	27250	4658	0.009			BV		
16	11.582	78784	8176	0.025			VV		
17	11.708	22009	4256	0.007			VV		

18	11.821	23651	3830	0.007	VB	
19	12.148	174901	23802	0.055	BB	
20	12.433	589	132	0.000	BB	
21	12.641	424863	65443	0.133	BV	
22	12.876	545342	93006	0.171	VV	
23	13.102	815197	90057	0.256	VV	
24	13.319	151208	24262	0.047	VB	
25	13.691	554086	71348	0.174	BV	PCB016;1
26	13.790	534452	81058	0.168	VE	
27	14.039	39662	6448	0.012	EV	
28	14.272	304897	34850	0.096	VE	PCB016;2
29	14.439	3888	1104	0.001	EB	
30	14.606	159698	27103	0.050	BV	
31	14.996	6428728	968947	2.016	VV	PCB016;3
32	15.189	4845551	578849	1.520	VE	
33	15.492	462242	75880	0.145	EV	
34	15.674	186149	33681	0.058	EV	
35	15.849	1082068	132528	0.339	VB	
36	16.071	53854	10857	0.017	BV	
37	16.316	1883742	243044	0.591	VV	
38	16.421	870598	141452	0.273	VV	PCB016;4
39	16.811	3501314	412970	1.098	VV	PCB016;5
40	17.136	2097683	265797	0.658	VV	
41	17.372	8406353	997976	2.636	VV +	
42	17.618	7224194	988195	2.266	VV +	
43	17.965	14731898	985566	4.620	VV +	PCB254;1
44	18.236	14534535	978123	4.558	VV +	
45	18.520	12809864	985476	4.017	VV +	PCB254;2
46	18.745	3269553	477709	1.025	VE	
47	18.983	362893	55962	0.114	EV	
48	19.293	7121086	958350	2.233	VV	
49	19.609	11418992	983729	3.581	VV +	PCB254;3
50	19.859	10813282	985820	3.391	VV +	PCB254;4
51	20.252	21133576	965754	6.628	VV +	PCB260;1
52	20.558	9793150	972373	3.071	VV +	
53	20.774	13385294	964302	4.198	VV +	
54	20.997	12822811	967778	4.021	VV +	PCB260;2
55	21.329	17388501	974342	5.453	VV +	PCB260;3
56	21.672	3458879	458578	1.085	VV	
57	21.901	2067135	265509	0.648	VV	
58	22.122	8313540	979281	2.607	VV +	
59	22.464	10000536	972050	3.136	VV +	PCB254;5
60	22.714	21606820	952378	6.776	VV +	PCB260;4
61	23.046	16920139	963823	5.306	VV +	
62	23.448	5757299	768190	1.806	VV	
63	23.592	6116674	677156	1.918	VV	
64	23.935	1810994	250787	0.568	VB	
65	24.264	30965	5534	0.010	BV	
66	24.342	27629	5795	0.009	VV	
67	24.592	3014754	511184	0.945	VV	PCB260;5
68	24.782	16581742	962415	5.200	VV +	
69	25.119	12607738	969549	3.954	VE +	DBUCLE
70	25.375	487253	68938	0.153	EV	
71	25.573	1850334	219045	0.580	EV	
72	25.859	679678	104607	0.213	VV	
73	26.042	291759	39050	0.091	VV	
74	26.204	136853	19944	0.043	VV	
75	26.644	2576465	228963	0.808	VV	
76	26.905	6699483	968203	2.101	VE +	
77	27.227	1033414	88069	0.324	EV	

78	27.518	193417	24944	0.061	VV	
79	27.711	359585	44807	0.113	VV	
80	27.935	82636	11877	0.026	VV	
81	28.111	84638	12255	0.027	VV	
82	28.296	20852	3298	0.007	VV	
83	28.440	39324	5157	0.012	VB	
84	28.734	269041	46124	0.084	BV	
85	28.868	835960	105391	0.262	VB	
86	29.338	147097	19401	0.046	BV	
87	29.639	47700	5849	0.015	VV	
88	29.900	20226	2143	0.006	VV	
89	30.180	6802	725	0.002	VB	
90	30.664	293565	32857	0.092	BB	
91	31.092	2217	353	0.001	BB	
92	31.405	7984	800	0.003	BV	
93	31.759	20233	1956	0.006	VV	
94	32.024	33368	2793	0.010	VB	
95	32.528	467158	45606	0.147	BB	CL10BP
96	33.135	15323	1492	0.005	BV	
97	33.437	37427	3311	0.012	VV	
98	33.660	16530	1545	0.005	VB	
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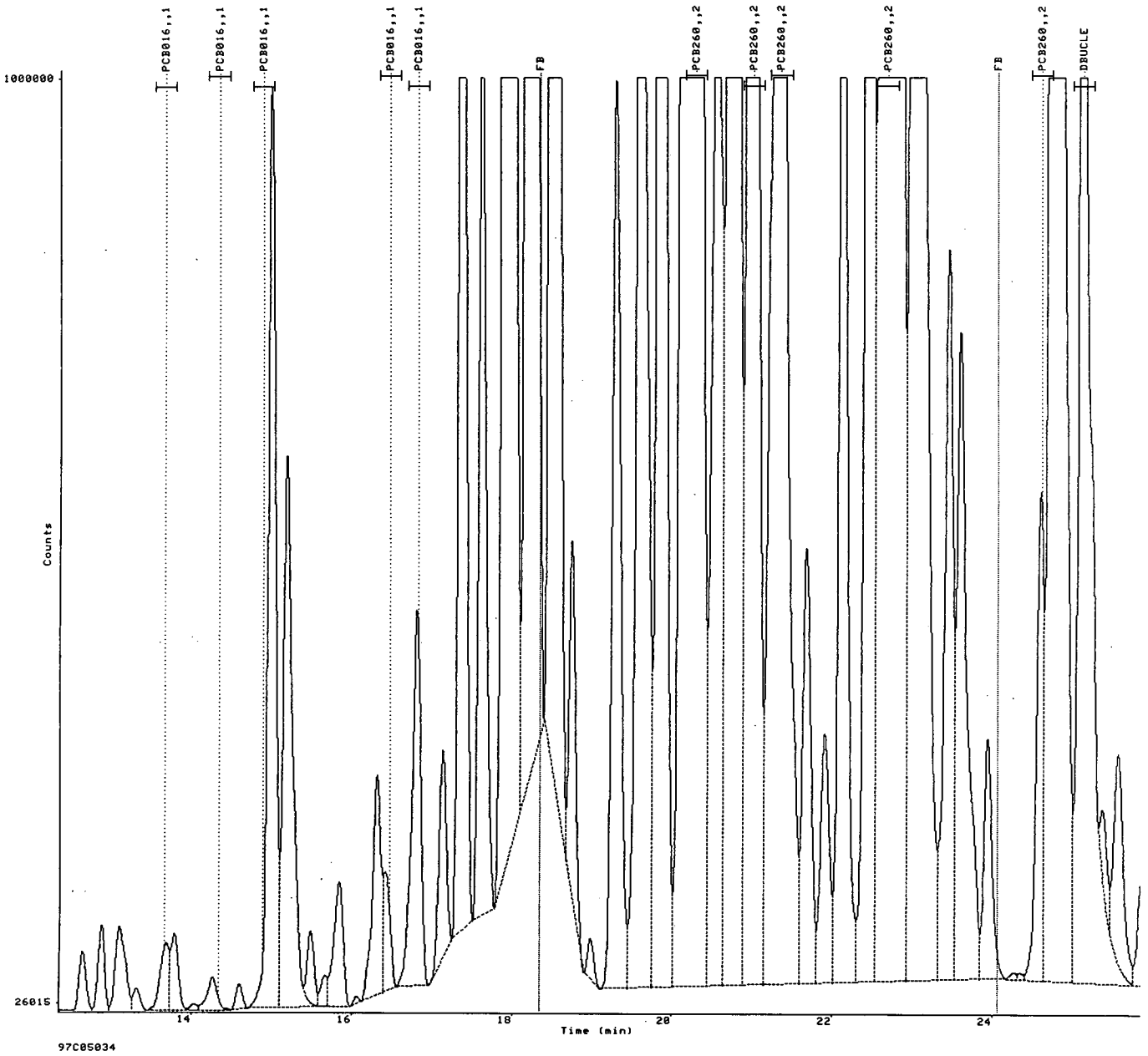
Totals		318874171		100.000		

ANALYSIS NOTES

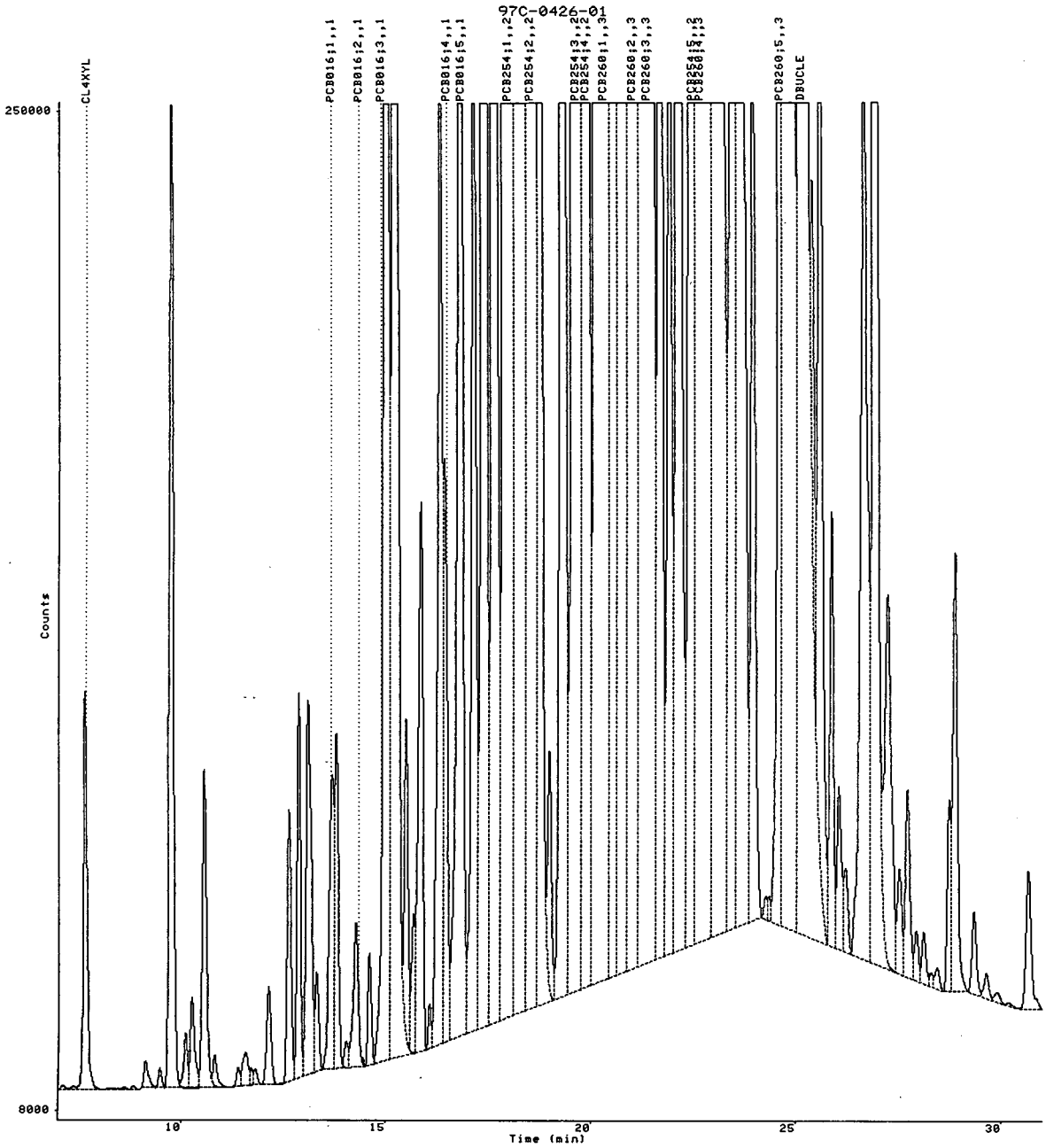
1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316047.RAW;1
Report: 1197248532
Acquired: 13-NOV-1997 20:50:19
Time range: 12.35-25.85



0368

Data file: DISK:[TAYLORC]5997316047.RAW;1
Report: 1197250781
Acquired: 13-NOV-1997 20:50:19
Time range: 7.00-31.00



97C05034

0369

Date.....17-NOV-1997 17:50:38.63 User: TAYLORC
Report number.....1197250782
Raw file.....DISK:[TAYLORC]5997316048.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 21:27:35
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05035
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.000 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....101
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.143			1390		BV	
	7.364			1945		VV	
CL4XYL	7.646	1.55	20.59	81666		VE	
	7.939			355		EB	
	8.338			571		BB	
	8.642			2494		BV	
	8.843			9224		VV	
	9.148			8950		VV	

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	9.504				5797	VV	
	9.752				64251	VV	
	10.125				13577	VV	
	10.293				5019	VV	
	10.388				5684	VV	
	10.569				17459	VV	
	10.830				985	VB	
	11.152				271	BB	
	11.538				24497	BV	
	11.829				11192	VV	
	12.151				30241	VB	
	12.463				479	BV	
	12.618				26113	VV	
	12.876				45044	VV	
	13.172				46961	VV	
	13.321				30916	VV	
PCB016;1	13.672	-0.39	58.83		75203	VV	1
	14.045				21247	VV	
PCB016;2	14.303	2.36	24.67		13341	VE	1
	14.446				1872	EV	
	14.606				76671	VV	
	14.780				41394	VV	
PCB016;3	14.998	-6.34	465.5	+	337397	VV	1
	15.191				329744	VE	
	15.483				34692	EV	
	15.677				35028	EV	
	15.835				84258	VB	
	16.071				4214	BV	
	16.316				189366	VV	
PCB016;4	16.466	0.64	299.7	+	79641	VV	1
	16.724				83224	VV	
PCB016;5	16.806	1.59	196.4	+	78254	VV	1
	17.130				93007	VV	
	17.371				216014	VV	
	17.621				244961	VV	
PCB254;1	17.944	0.96			1002114	VV	2
	18.213				867820	VV	
PCB254;2	18.520	-0.57			705511	VE	2
	18.748				111479	EV	
	18.975				51098	EV	
	19.291				334076	VV	
PCB254;3	19.599	0.86			344456	VV	2
PCB254;4	19.853	0.70			613647	VV	2
	20.121				328621	VV	
PCB260;1	20.288	0.40	1070	+	990159	VE	3
	20.558				228647	EV	
	20.756				986171	VV	
PCB260;2	20.987	1.51	689.2	+	667392	VV	3
PCB260;3	21.331	1.64	627.7	+	872354	VE	3
	21.674				100352	EV	
	21.923				217980	VV	
	22.123				287826	VV	
PCB254;5	22.445	0.74			496632	VV	2
PCB260;4	22.640	0.98	675.1	+	530326	VV	3
	22.828				512464	VV	
	23.046				990275	VV	
	23.448				163917	VV	
	23.593				129383	VV	
	23.946				33302	VB	
	24.279				10728	BV	

PCB260;5	24.593	0.70	179.4	+	118820	VV	3
	24.740				463800	VV	
	24.829				320647	VV	
DBUCLE	25.118	0.64	105.7		399459	VE	
	25.373				20149	EV	
	25.570				32142	EV	
	25.859				10034	VV	
	26.052				3335	VV	
	26.202				5044	VV	
	26.417				2867	VV	
	26.637				53388	VV	
	26.755				35786	VV	
	26.908				227738	VE	
	27.245				14875	EV	
	27.498				6248	VV	
	27.728				167783	VE	
	28.099				1424	EV	
	28.439				3240	EV	
	28.731				13587	VV	
	28.869				31911	VE	
	29.329				1027	EV	
	29.468				983	EV	
	29.652				1120	EB	
	29.929				536	BB	
	30.667				11765	BV	
	30.881				3114	VV	
	31.295				1008	VB	
	32.055				1764	BV	
CL10BP	32.529	3.17			33520	VE	
	32.737				2665	EV	
	33.150				420	EB	
	33.436				5873	BV	
	33.638				2625	VB	

GROUP REPORT

Group	UG/SAMPLE
1	1045
3	3241

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL R	Peak Name
1	7.143	11249	1390	0.009		BV	
2	7.364	14380	1945	0.011		VV	
3	7.646	517135	81666	0.395		VE	CL4XYL
4	7.939	3270	355	0.002		EB	
5	8.338	6749	571	0.005		BB	
6	8.642	14049	2494	0.011		BV	
7	8.843	60174	9224	0.046		VV	
8	9.148	85033	8950	0.065		VV	
9	9.504	39604	5797	0.030		VV	
10	9.752	408047	64251	0.312		VV	
11	10.125	83254	13577	0.064		VV	
12	10.293	29169	5019	0.022		VV	
13	10.388	35385	5684	0.027		VV	

14	10.569	124678	17459	0.095	VV	
15	10.830	4534	985	0.003	VB	
16	11.152	1196	271	0.001	BB	
17	11.538	261131	24497	0.200	BV	
18	11.829	95431	11192	0.073	VV	
19	12.151	237928	30241	0.182	VB	
20	12.463	1940	479	0.001	BV	
21	12.618	177277	26113	0.136	VV	
22	12.876	255842	45044	0.196	VV	
23	13.172	437264	46961	0.334	VV	
24	13.321	206146	30916	0.158	VV	
25	13.672	713069	75203	0.545	VV	PCB016;1
26	14.045	144685	21247	0.111	VV	
27	14.303	117025	13341	0.089	VE	PCB016;2
28	14.446	7001	1872	0.005	EV	
29	14.606	489191	76671	0.374	VV	
30	14.780	337862	41394	0.258	VV	
31	14.998	2189946	337397	1.674	VV	PCB016;3
32	15.191	3369272	329744	2.576	VE	
33	15.483	208138	34692	0.159	EV	
34	15.677	167528	35028	0.128	EV	
35	15.835	839522	84258	0.642	VB	
36	16.071	17912	4214	0.014	BV	
37	16.316	1588856	189366	1.215	VV	
38	16.466	512029	79641	0.391	VV	PCB016;4
39	16.724	645544	83224	0.494	VV	
40	16.806	466570	78254	0.357	VV	PCB016;5
41	17.130	956897	93007	0.732	VV	
42	17.371	1442835	216014	1.103	VV	
43	17.621	1864253	244961	1.425	VV	
44	17.944	10188358	1002114	7.789	VV +	PCB254;1
45	18.213	7945126	867820	6.074	VV	
46	18.520	6699092	705511	5.121	VE	PCB254;2
47	18.748	701697	111479	0.536	EV	
48	18.975	403446	51098	0.308	EV	
49	19.291	2476222	334076	1.893	VV	
50	19.599	2936957	344456	2.245	VV	PCB254;3
51	19.853	4001930	613647	3.059	VV	PCB254;4
52	20.121	1898976	328621	1.452	VV	
53	20.288	9161322	990159	7.004	VE +	PCB260;1
54	20.558	1942176	228647	1.485	EV	
55	20.756	7171293	986171	5.482	VV +	
56	20.987	6074266	667392	4.644	VV	PCB260;2
57	21.331	7736520	872354	5.914	VE	PCB260;3
58	21.674	688299	100352	0.526	EV	
59	21.923	1621437	217980	1.240	VV	
60	22.123	1914309	287826	1.463	VV	
61	22.445	3221918	496632	2.463	VV	PCB254;5
62	22.640	4076657	530326	3.116	VV	PCB260;4
63	22.828	3780574	512464	2.890	VV	
64	23.046	9464446	990275	7.235	VV +	
65	23.448	1185596	163917	0.906	VV	
66	23.593	1055268	129383	0.807	VV	
67	23.946	235040	33302	0.180	VB	
68	24.279	100435	10728	0.077	BV	
69	24.593	735662	118820	0.562	VV	PCB260;5
70	24.740	3083106	463800	2.357	VV	
71	24.829	2003485	320647	1.532	VV	
72	25.118	3566533	399459	2.727	VE	DBUCLE
73	25.373	148505	20149	0.114	EV	

74	25.570	260314	32142	0.199	EV	
75	25.859	55717	10034	0.043	VV	
76	26.052	20040	3335	0.015	VV	
77	26.202	43519	5044	0.033	VV	
78	26.417	18326	2867	0.014	VV	
79	26.637	511358	53388	0.391	VV	
80	26.755	166477	35786	0.127	VV	
81	26.908	1578712	227738	1.207	VE	
82	27.245	177878	14875	0.136	EV	
83	27.498	43775	6248	0.033	VV	
84	27.728	1431344	167783	1.094	VE	
85	28.099	21241	1424	0.016	EV	
86	28.439	33827	3240	0.026	EV	
87	28.731	89184	13587	0.068	VV	
88	28.869	261133	31911	0.200	VE	
89	29.329	7181	1027	0.005	EV	
90	29.468	6751	983	0.005	EV	
91	29.652	9014	1120	0.007	EB	
92	29.929	3510	536	0.003	BB	
93	30.667	104081	11765	0.080	BV	
94	30.881	37949	3114	0.029	VV	
95	31.295	9942	1008	0.008	VB	
96	32.055	22285	1764	0.017	BV	
97	32.529	368787	33520	0.282	VE	CL10BP
98	32.737	28083	2665	0.021	EV	
99	33.150	3146	420	0.002	EB	
100	33.436	63731	5873	0.049	BV	
101	33.638	24047	2625	0.018	VB	
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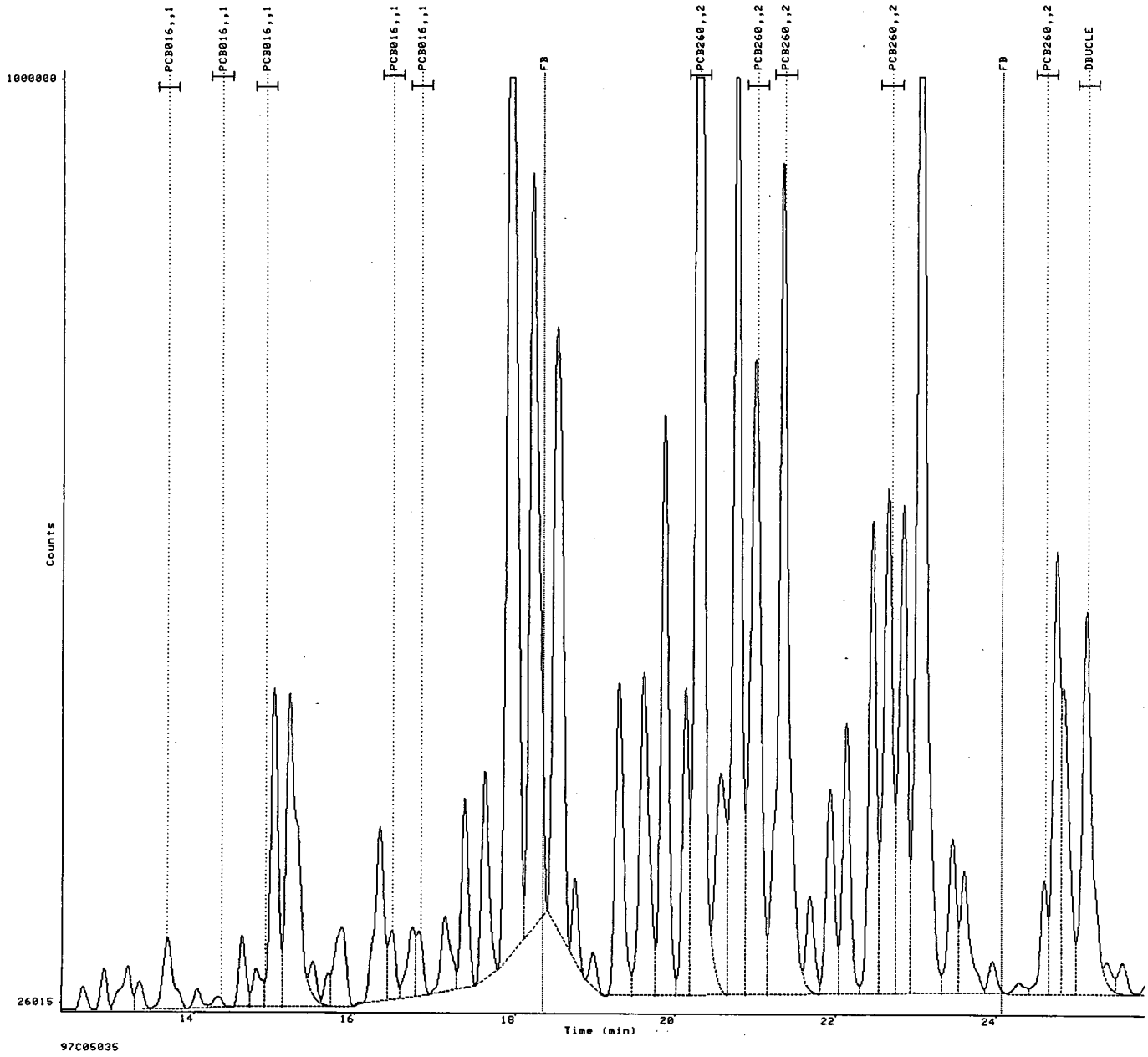
Totals		130809003		100.000		

ANALYSIS NOTES

1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316048.RAW;1
Report: 1197248533
Acquired: 13-NOV-1997 21:27:35
Time range: 12.35-25.85



0375

Date.....17-NOV-1997 17:50:51.87 User: TAYLORC
Report number.....1197250783
Raw file.....DISK:[TAYLORC]5997316049.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 22:05:01
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05036
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.000 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....104
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
	7.139			1252			BV	
	7.361			2324			VV	
CL4XYL	7.646	1.56	25.92	102703			VB	
	8.346			1194			BV	
	8.641			2939			VV	
	8.843			10361			VV	
	9.139			9777			VV	
	9.492			4154			VV	

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	9.751				193733	VV	
	10.124				19164	VE	
	10.280				3794	EV	
	10.394				4605	EV	
	10.568				18482	VE	
	10.831				1544	EV	
	10.952				1042	EV	
	11.140				136	VB	
	11.525				29654	BE	
	11.822				5187	EV	
	12.153				26400	VB	
	12.441				139	BB	
	12.630				16860	BV	
	12.876				38080	VV	
	13.091				38522	VV	
	13.165				39274	VV	
	13.321				22698	VV	
PCB016;1	13.672	-0.36	57.45		73432	VB	1
	14.043				10828	BV	
	14.165				6130	VV	
PCB016;2	14.300	2.53	22.80		12327	VE	1
	14.447				1596	EB	
	14.606				23268	BV	
PCB016;3	14.997	-6.33	317.1	+	192058	VV	1
	15.195				178881	VE	
	15.489				37367	EV	
	15.675				22170	EV	
	15.857				111942	VB	
	16.076				10129	BV	
	16.317				116310	VV	
PCB016;4	16.456	1.29	211.0	+	51819	VV	1
	16.640				79345	VV	
PCB016;5	16.807	1.52	172.4	+	66332	VV	1
	17.128				97889	VV	
	17.225				103366	VV	
	17.370				188290	VV	
	17.628				254269	VV	
PCB254;1	17.952	0.48			992843	VV	2
	18.215				819778	VV	
PCB254;2	18.549	-2.26			993675	VE	2
	18.746				83784	EV	
	18.978				80574	EV	
	19.291				262180	VV	
PCB254;3	19.597	0.95			329317	VV	2
PCB254;4	19.854	0.64			573465	VV	2
	20.122				368416	VV	
PCB260;1	20.289	0.39	1071	+	991045	VV	3
	20.562				261350	VV	
	20.755				973904	VV	
PCB260;2	20.988	1.42	801.3	+	781522	VV	3
PCB260;3	21.331	1.60	688.7	+	980464	VE	3
	21.675				125634	EV	
	21.927				264868	VV	
	22.123				356349	VV	
PCB254;5	22.441	0.98			531190	VV	2
PCB260;4	22.640	0.95	770.9	+	626885	VV	3
	22.829				612195	VV	
	23.052				982591	VV	
	23.447				201066	VV	
	23.595				157728	VV	

	23.942				65336	VB	
	24.279				12560	BV	
PCB260;5	24.594	0.64	228.4	+	158152	VV	3
	24.743				558137	VV	
DBUCLE	25.118	0.67	131.1		509981	VE	
	25.379				30687	EV	
	25.567				55304	EV	
	25.859				18353	VB	
	26.057				5713	BV	
	26.193				7722	VV	
	26.436				5931	VV	
	26.645				76138	VV	
	26.755				61293	VV	
	26.908				300946	VE	
	27.238				24291	EV	
	27.496				9843	VV	
	27.726				54684	VE	
	27.922				5451	EV	
	28.107				2721	EV	
	28.433				4335	VV	
	28.735				18817	VV	
	28.871				44724	VE	
	29.324				2883	EV	
	29.463				1854	EV	
	29.649				1774	VB	
	29.930				1348	BV	
	30.135				1206	VB	
	30.669				16224	BE	
	30.865				1368	EV	
	31.276				667	VB	
	31.599				161	BB	
	32.055				4095	BV	
CL10BP	32.532	2.99			43033	VE	
	33.127				734	EB	
	33.436				9922	BV	
	33.643				4634	VB	

GROUP REPORT

Group	UG/SAMPLE
1	780.9
3	3560

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref	Std	BL	R	Peak Name
1	7.139	8644	1252	0.006			BV		
2	7.361	16902	2324	0.011			VV		
3	7.646	635336	102703	0.431			VB		CL4XYL
4	8.346	14594	1194	0.010			BV		
5	8.641	18324	2939	0.012			VV		
6	8.843	71039	10361	0.048			VV		
7	9.139	81717	9777	0.055			VV		
8	9.492	28256	4154	0.019			VV		
9	9.751	1261847	193733	0.857			VV		
10	10.124	127180	19164	0.086			VE		

11	10.280	20758	3794	0.014	EV	
12	10.394	27692	4605	0.019	EV	
13	10.568	133318	18482	0.091	VE	
14	10.831	8805	1544	0.006	EV	
15	10.952	7095	1042	0.005	EV	
16	11.140	545	136	0.000	VB	
17	11.525	294978	29654	0.200	BE	
18	11.822	52362	5187	0.036	EV	
19	12.153	208599	26400	0.142	VB	
20	12.441	497	139	0.000	BB	
21	12.630	112818	16860	0.077	BV	
22	12.876	213927	38080	0.145	VV	
23	13.091	241067	38522	0.164	VV	
24	13.165	223117	39274	0.152	VV	
25	13.321	145798	22698	0.099	VV	
26	13.672	692817	73432	0.470	VB	PCB016;1
27	14.043	76288	10828	0.052	BV	
28	14.165	24481	6130	0.017	VV	
29	14.300	108920	12327	0.074	VE	PCB016;2
30	14.447	5245	1596	0.004	EB	
31	14.606	137092	23268	0.093	BV	
32	14.997	1410276	192058	0.958	VV	PCB016;3
33	15.195	1815507	178881	1.233	VE	
34	15.489	225774	37367	0.153	EV	
35	15.675	101045	22170	0.069	EV	
36	15.857	955978	111942	0.649	VB	
37	16.076	50818	10129	0.035	BV	
38	16.317	1060768	116310	0.720	VV	
39	16.456	310319	51819	0.211	VV	PCB016;4
40	16.640	744180	79345	0.505	VV	
41	16.807	457705	66332	0.311	VV	PCB016;5
42	17.128	676600	97889	0.459	VV	
43	17.225	613596	103366	0.417	VV	
44	17.370	1225833	188290	0.832	VV	
45	17.628	1947955	254269	1.323	VV	
46	17.952	13543736	992843	9.197	VV +	PCB254;1
47	18.215	8741227	819778	5.936	VV	
48	18.549	9774526	993675	6.638	VE +	PCB254;2
49	18.746	529019	83784	0.359	EV	
50	18.978	628350	80574	0.427	EV	
51	19.291	1955107	262180	1.328	VV	
52	19.597	3155783	329317	2.143	VV	PCB254;3
53	19.854	3741263	573465	2.541	VV	PCB254;4
54	20.122	2121947	368416	1.441	VV	
55	20.289	9171346	991045	6.228	VV +	PCB260;1
56	20.562	2458265	261350	1.669	VV	
57	20.755	6891768	973904	4.680	VV +	
58	20.988	6729510	781522	4.570	VV	PCB260;2
59	21.331	9744312	980464	6.617	VE +	PCB260;3
60	21.675	857825	125634	0.583	EV	
61	21.927	2036434	264868	1.383	VV	
62	22.123	2459263	356349	1.670	VV	
63	22.441	3640052	531190	2.472	VV	PCB254;5
64	22.640	4866025	626885	3.304	VV	PCB260;4
65	22.829	4514475	612195	3.066	VV	
66	23.052	11150639	982591	7.572	VV +	
67	23.447	1503190	201066	1.021	VV	
68	23.595	1474993	157728	1.002	VV	
69	23.942	462249	65336	0.314	VB	
70	24.279	106485	12560	0.072	BV	

71	24.594	994032	158152	0.675	VV	PCB260;5
72	24.743	6020597	558137	4.088	VV	
73	25.118	4713931	509981	3.201	VE	DBUCLE
74	25.379	215141	30687	0.146	EV	
75	25.567	482149	55304	0.327	EV	
76	25.859	108019	18353	0.073	VB	
77	26.057	30066	5713	0.020	BV	
78	26.193	79617	7722	0.054	VV	
79	26.436	32126	5931	0.022	VV	
80	26.645	740293	76138	0.503	VV	
81	26.755	313753	61293	0.213	VV	
82	26.908	2240101	300946	1.521	VE	
83	27.238	334986	24291	0.227	EV	
84	27.496	72053	9843	0.049	VV	
85	27.726	489194	54684	0.332	VE	
86	27.922	44936	5451	0.031	EV	
87	28.107	30039	2721	0.020	EV	
88	28.433	43498	4335	0.030	VV	
89	28.735	114781	18817	0.078	VV	
90	28.871	374699	44724	0.254	VE	
91	29.324	25089	2883	0.017	EV	
92	29.463	11510	1854	0.008	EV	
93	29.649	13426	1774	0.009	VB	
94	29.930	12376	1348	0.008	BV	
95	30.135	13515	1206	0.009	VB	
96	30.669	153561	16224	0.104	BE	
97	30.865	22432	1368	0.015	EV	
98	31.276	8646	667	0.006	VB	
99	31.599	885	161	0.001	BB	
100	32.055	52345	4095	0.036	BV	
101	32.532	456146	43033	0.310	VE	CL10BP
102	33.127	6737	734	0.005	EB	
103	33.436	110276	9922	0.075	BV	
104	33.643	44144	4634	0.030	VB	
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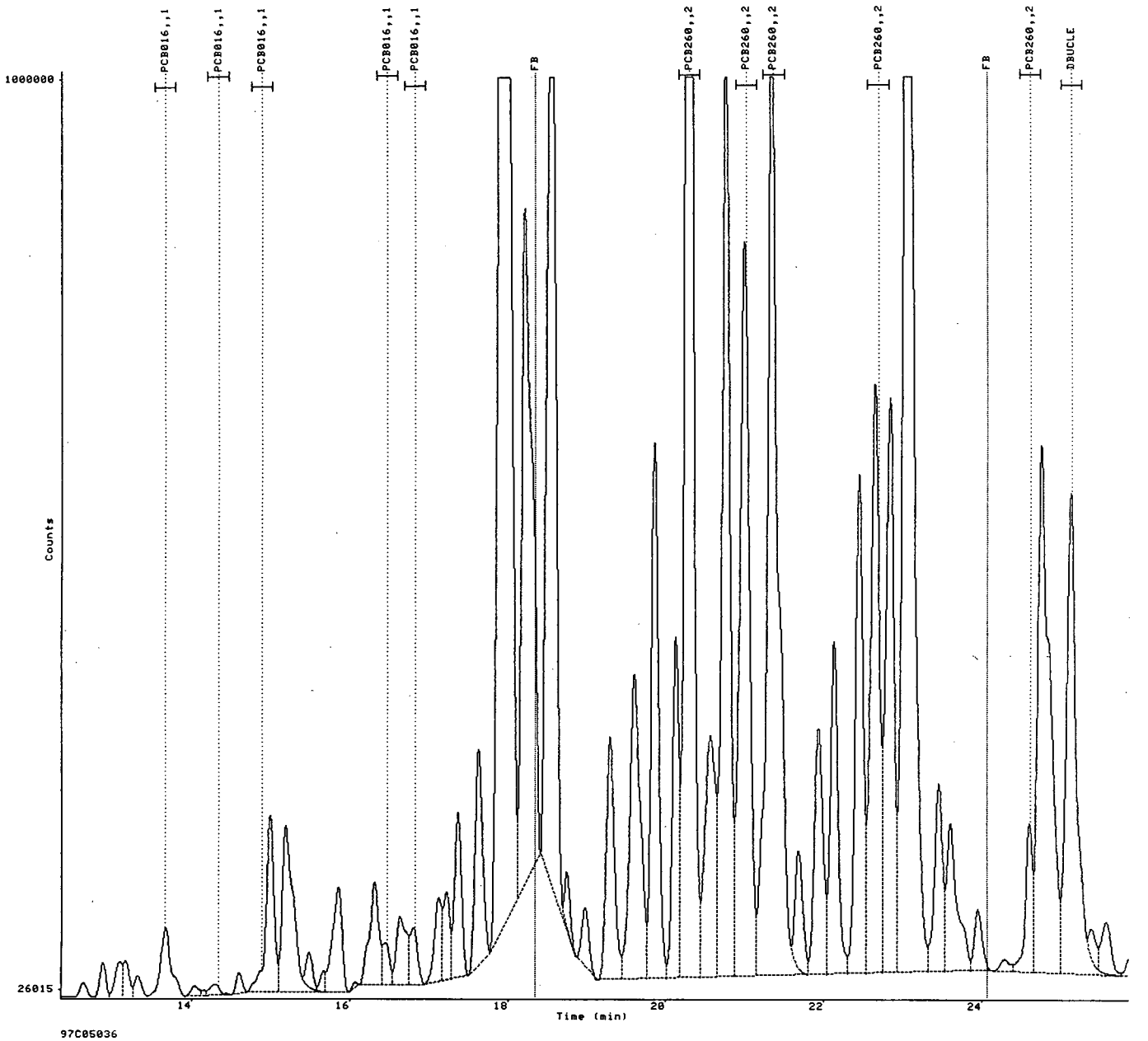
Totals		147259300		100.000		

ANALYSIS NOTES

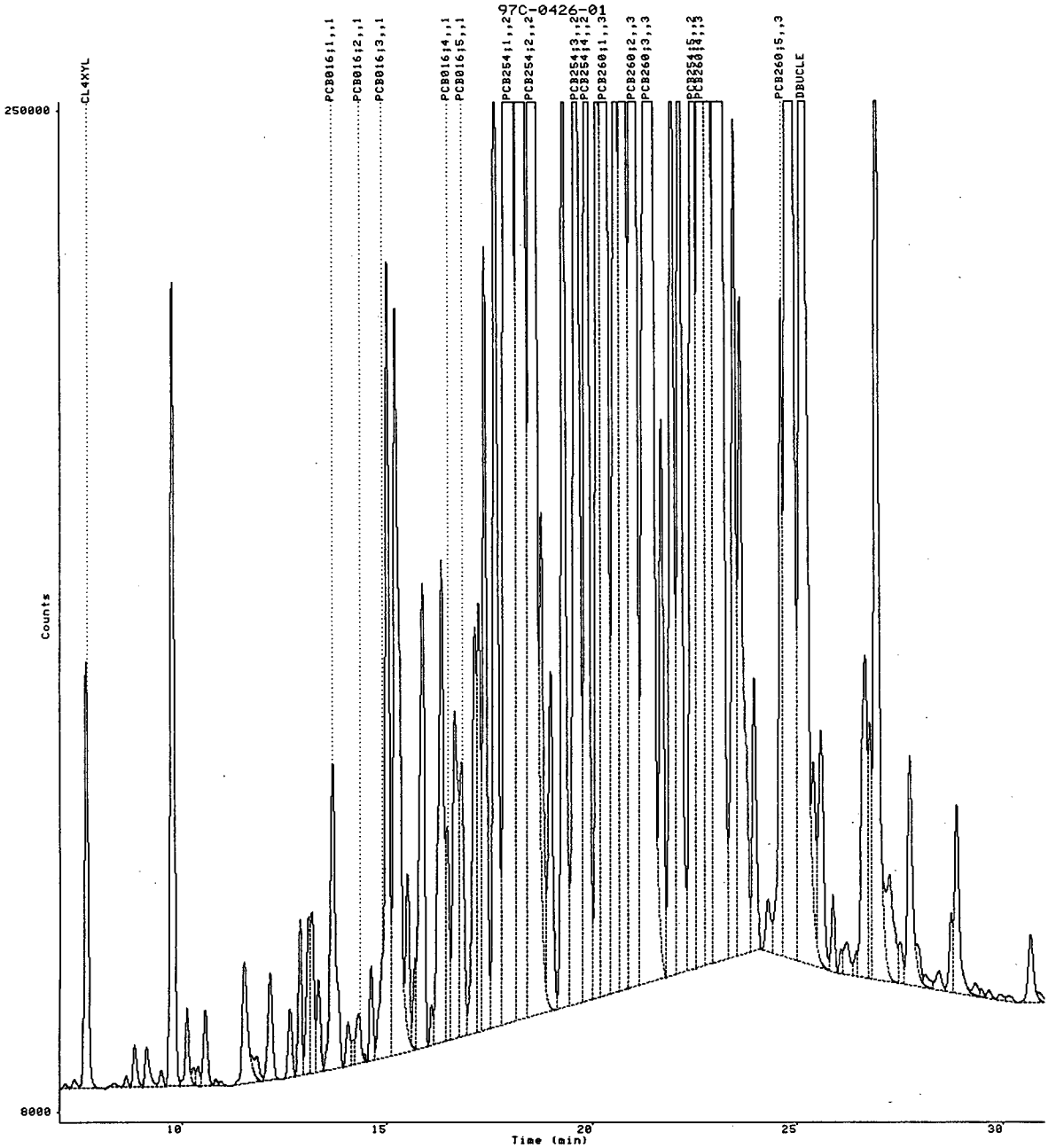
1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316049.RAW;1
Report: 1197248534
Acquired: 13-NOV-1997 22:05:01
Time range: 12.35-25.85



0382

Data file: DISK:[TAYLORC]5997316049.RAW;1
Report: 1197250783
Acquired: 13-NOV-1997 22:05:01
Time range: 7.00-31.00



97C05036

0383

Date.....17-NOV-1997 17:51:05.75 User: TAYLORC
Report number.....1197250784
Raw file.....DISK:[TAYLORC]5997316050.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 22:42:24
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05037
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....72
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	7.647	1.49	21.20	84079			BB	
	8.628			92			BB	
	8.948			115			BB	
	9.137			5730			BB	
	9.734			791			BB	
	10.116			132			BB	
	10.281			314			BB	
	10.576			1202			BB	

0384

	11.004			274	BB	
	11.580			570	BB	
	12.155			1839	BB	
	12.627			656	BB	
	12.880			389	BV	
	13.182			8128	VV	
	13.317			3731	VB	
PCB016;1	13.659	0.39	1.135 -	1504	BB	1
	14.021			331	BB	
PCB016;2	14.316	1.58	0.4618 -	290	BV	1
	14.460			181	VV	
	14.609			1170	VV	
	14.779			849	VV	
PCB016;3	15.003	-6.66	52.67	20612	VV	1
	15.193			16142	VE	
	15.459			3174	EB	
	15.850			841	BB	
	16.323			10923	BE	
PCB016;4	16.468	0.56	6.509	1283	EB	1
PCB016;5	16.817	0.89	11.29	3268	BB	1
	17.012			155	BV	
	17.144			724	VB	
	17.379			5880	BV	
	17.624			4630	VV	
PCB254;1	17.949	0.65	27.04	25205	VV	2
	18.223			14493	VV	
PCB254;2	18.506	0.29	19.95	8267	VV	2
	18.752			2133	VB	
	19.296			7607	BV	
PCB254;3	19.607	0.38	12.51	4917	VV	2
PCB254;4	19.857	0.49	12.41	8306	VV	2
	20.125			3246	VV	
PCB260;1	20.291	0.21	56.76	33508	VE	3
	20.573			4425	EV	
	20.766			17562	VV	
PCB260;2	20.916	5.74	49.36	45837	VV	3
PCB260;3	21.334	1.43	11.53	11864	VE	3
	21.669			1429	EB	
	21.923			733	BV	
	22.125			2562	VB	
PCB254;5	22.455	0.09	11.12	4536	BV	2
PCB260;4	22.644	0.69	11.08	6582	VV	3
	22.831			6605	VV	
	23.049			15505	VE	
	23.450			2026	EV	
	23.582			1183	EB	
	23.917			79	BB	
	24.255			113	BB	
PCB260;5	24.594	0.68	2.044	923	BV	3
	24.746			4463	VV	
	24.853			3048	VV	
DBUCLE	25.096	2.00	10.79	34785	VB	
	25.894			724	BB	
	26.941			1085	BB	
	27.726			956	BV	
	27.933			280	VB	
	28.858			123	BB	
	29.241			1049	BB	
	29.955			123	BB	
	30.685			596	BV	

	30.925		409	VB
	31.810		229	BV
	32.249		1097	VV
CL10BP	32.530	3.11	30978	VB

GROUP REPORT

Group	UG/SAMPLE
1	72.07
2	83.04
3	130.8

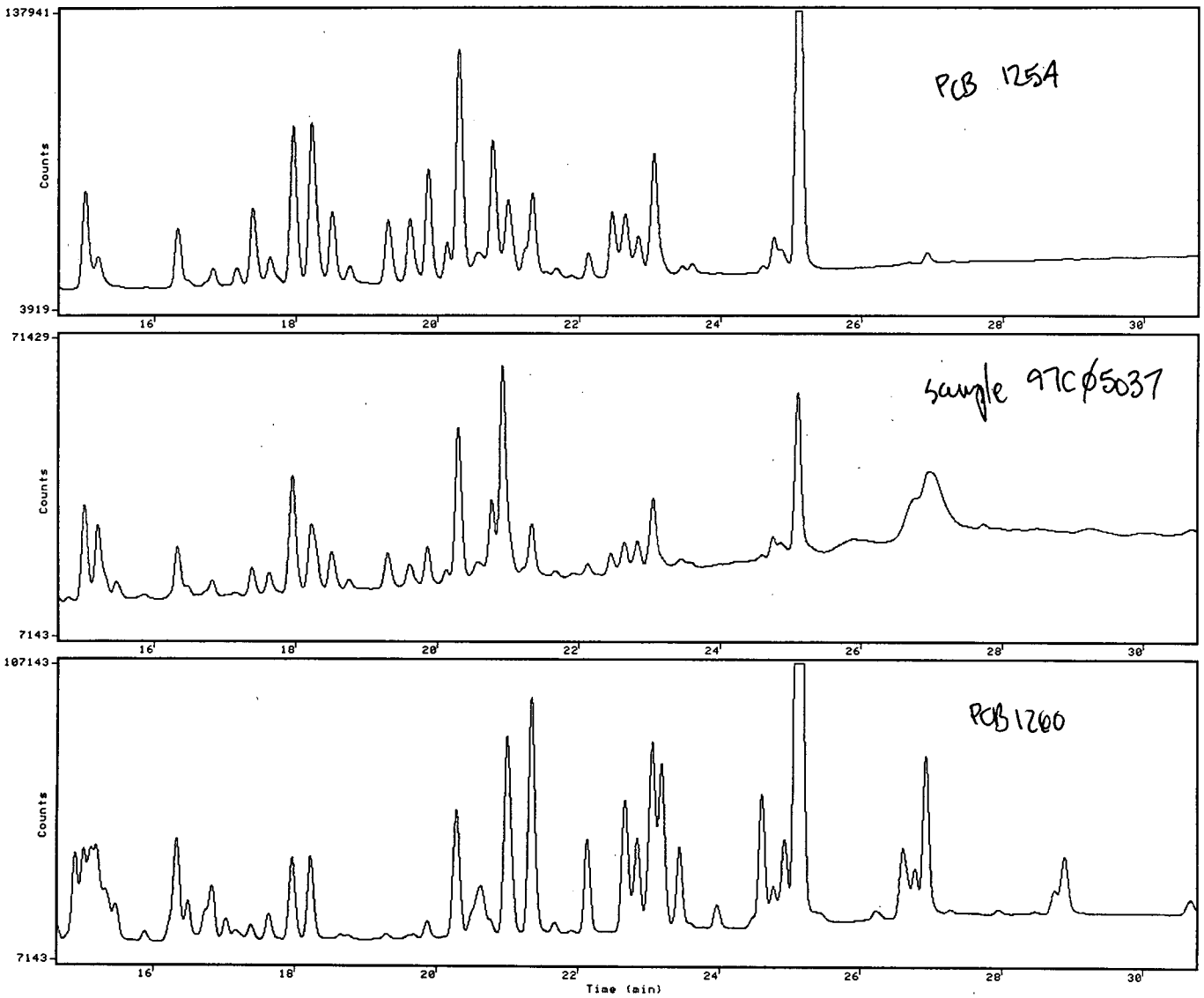
ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

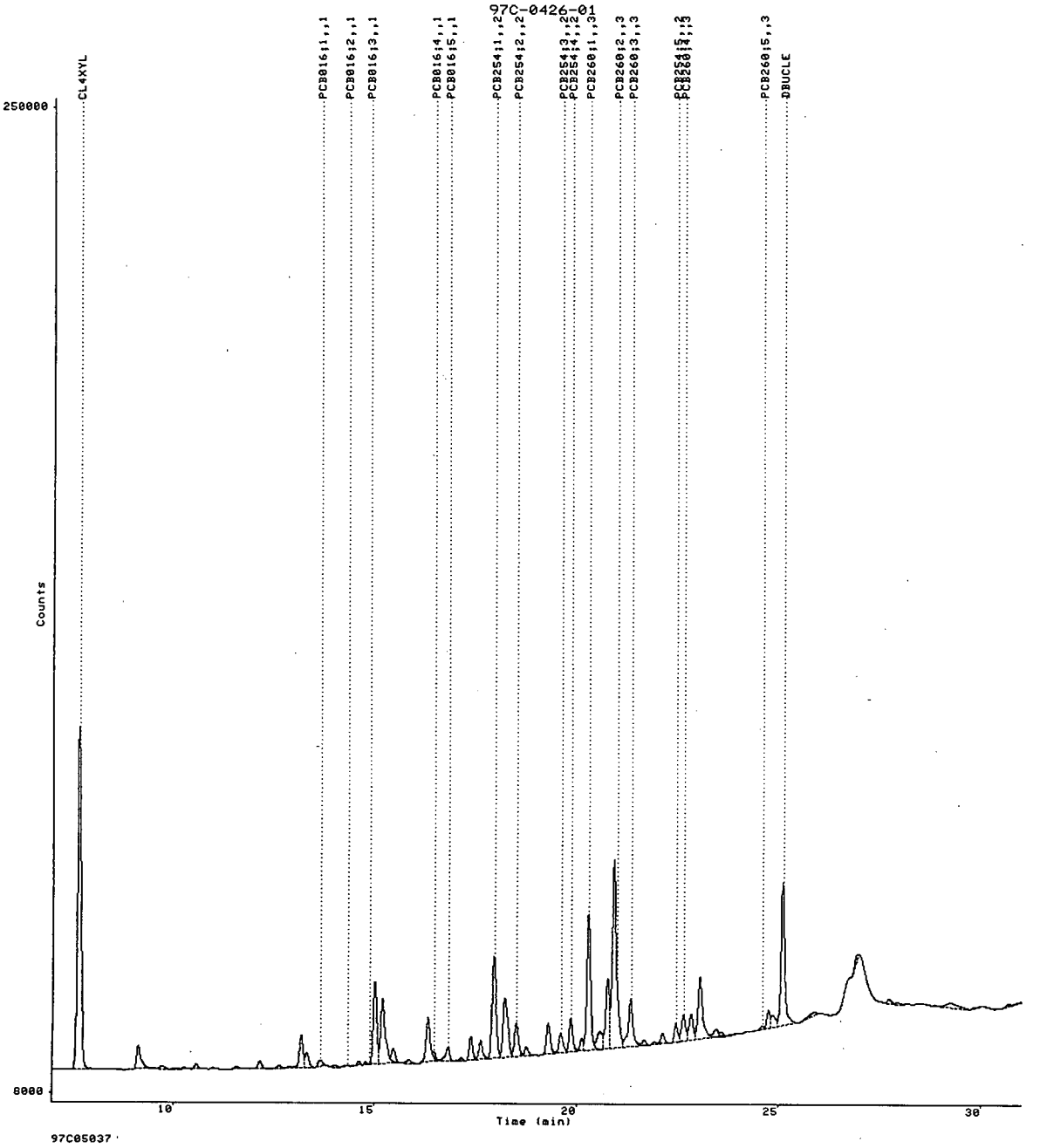
Date: 18-NOV-1997 08:52:33.59

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316007	14.62	30.78	3919	137941	1
5997316050	14.62	30.78	7143	71429	1
5997316055	14.62	30.78	7143	107143	1

PCB 1254 match



Data file: DISK:[TAYLORC]5997316050.RAW;1
Report: 1197250784
Acquired: 13-NOV-1997 22:42:24
Time range: 7.00-31.00



0388

Date.....17-NOV-1997 17:51:18.47 User: TAYLORC
Report number.....1197250785
Raw file.....DISK:[TAYLORC]5997316051.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 23:19:48
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05038
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.000 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....100
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.124			2659		BE	
	7.368			397		EV	
CL4XYL	7.646	1.57	20.40	80919		VB	
	8.199			342		BV	
	8.346			929		VB	
	8.640			169		BB	
	8.843			435		BB	
	9.168			23887		BV	

0389

	9.504				8560	VV	
	9.756				34469	VV	
	10.125				24569	VV	
	10.277				22149	VV	
	10.394				14176	VV	
	10.568				54737	VE	
	10.830				2937	EV	
	11.019				1836	EV	
	11.158				1575	VB	
	11.401				2802	BV	
	11.565				37356	VV	
	11.835				14858	VB	
	12.152				148185	BE	
	12.451				3491	EV	
	12.612				65971	VV	
	12.878				61116	VV	
	13.039				64192	VV	
	13.179				334973	VV	
	13.318				197546	VV	
PCB016;1	13.669	-0.16	162.9	+	210403	VV	1
	14.042				45954	VV	
PCB016;2	14.335	0.41	61.03		33355	VV	1
	14.455				32930	VV	
	14.607				94397	VV	
	14.781				52633	VV	
PCB016;3	15.000	-6.48	698.6	+	637153	VV	1
	15.192				547702	VE	
	15.471				82464	EV	
	15.663				31495	EV	
	15.845				82744	VE	
	16.064				10577	EV	
	16.319				443824	VV	
PCB016;4	16.471	0.37	523.2	+	165650	VV	1
	16.607				62482	VV	
PCB016;5	16.815	1.04	419.4	+	221273	VV	1
	17.012				62600	VV	
	17.137				147014	VV	
	17.373				355375	VV	
	17.621				358771	VV	
PCB254;1	17.945	0.91			967730	VV	2
	18.216				700131	VV	
PCB254;2	18.512	-0.08			530270	VV	2
	18.751				207727	VV	
	18.908				75598	VV	
	19.297				356606	VV	
PCB254;3	19.608	0.32			350905	VV	2
PCB254;4	19.858	0.43			521909	VV	2
	20.126				305276	VV	
PCB260;1	20.292	0.20	1066	+	984930	VV	3
	20.557				264712	VV	
	20.759				979593	VV	
PCB260;2	20.940	4.33	829.9	+	810794	VV	3
PCB260;3	21.332	1.54	512.3	+	679215	VE	3
	21.675				98549	EV	
	21.924				181408	VV	
	22.126				219864	VV	
PCB254;5	22.448	0.54			464795	VV	2
PCB260;4	22.642	0.86	539.5	+	402705	VV	3
	22.830				405614	VV	
	23.045				928189	VV	

	23.452			131669	VV	
	23.592			91884	VE	
	23.964			12756	EB	
	24.296			1120	BV	
PCB260;5	24.595	0.60	124.9	78599	VV	3
	24.742			334177	VV	
	24.832			266080	VV	
DBUCLE	25.120	0.54	82.21	302063	VE	
	25.488			8619	EB	
	26.216			2738	BV	
	26.391			3284	VV	
	26.646			45569	VV	
	26.766			33540	VV	
	26.909			189519	VE	
	27.244			15788	EV	
	27.496			7705	EV	
	27.730			8768	VV	
	27.936			4054	VE	
	28.186			756	EB	
	28.444			901	BB	
	28.733			8097	BV	
	28.869			19981	VE	
	29.210			873	EB	
	29.932			528	BV	
	30.202			809	VB	
	30.669			7259	BV	
	30.894			5888	VB	
	32.076			347	BV	
CL10BP	32.532	2.98		33438	VB	
	33.112			190	BB	
	33.441			5392	BV	
	33.628			2399	VB	

GROUP REPORT

Group	UG/SAMPLE
1	1865
3	3072

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL R	Peak Name
1	7.124	18850	2659	0.014		BE	
2	7.368	2326	397	0.002		EV	
3	7.646	555020	80919	0.404		VB	CL4XYL
4	8.199	1858	342	0.001		BV	
5	8.346	6363	929	0.005		VB	
6	8.640	819	169	0.001		BB	
7	8.843	2233	435	0.002		BB	
8	9.168	292540	23887	0.213		BV	
9	9.504	83630	8560	0.061		VV	
10	9.756	249357	34469	0.182		VV	
11	10.125	203677	24569	0.148		VV	
12	10.277	143387	22149	0.104		VV	
13	10.394	76884	14176	0.056		VV	
14	10.568	427805	54737	0.311		VE	

15	10.830	19026	2937	0.014	EV	
16	11.019	12599	1836	0.009	EV	
17	11.158	9412	1575	0.007	VB	
18	11.401	14324	2802	0.010	BV	
19	11.565	258117	37356	0.188	VV	
20	11.835	108977	14858	0.079	VB	
21	12.152	1014222	148185	0.738	BE	
22	12.451	17325	3491	0.013	EV	
23	12.612	447975	65971	0.326	VV	
24	12.878	357732	61116	0.260	VV	
25	13.039	335966	64192	0.245	VV	
26	13.179	2158726	334973	1.571	VV	
27	13.318	1348607	197546	0.982	VV	
28	13.669	1890980	210403	1.376	VV	PCB016;1
29	14.042	344458	45954	0.251	VV	
30	14.335	263729	33355	0.192	VV	PCB016;2
31	14.455	185207	32930	0.135	VV	
32	14.607	686035	94397	0.499	VV	
33	14.781	294136	52633	0.214	VV	
34	15.000	4386603	637153	3.193	VV	PCB016;3
35	15.192	5580378	547702	4.062	VE	
36	15.471	585188	82464	0.426	EV	
37	15.663	165730	31495	0.121	EV	
38	15.845	896787	82744	0.653	VE	
39	16.064	53975	10577	0.039	EV	
40	16.319	3657236	443824	2.662	VV	
41	16.471	1068757	165650	0.778	VV	PCB016;4
42	16.607	232506	62482	0.169	VV	
43	16.815	2365196	221273	1.722	VV	PCB016;5
44	17.012	311041	62600	0.226	VV	
45	17.137	1229852	147014	0.895	VV	
46	17.373	2468966	355375	1.797	VV	
47	17.621	2720449	358771	1.980	VV	
48	17.945	8069676	967730	5.874	VV +	PCB254;1
49	18.216	6471849	700131	4.711	VV	
50	18.512	4821687	530270	3.510	VV	PCB254;2
51	18.751	1567229	207727	1.141	VV	
52	18.908	989848	75598	0.721	VV	
53	19.297	3120985	356606	2.272	VV	
54	19.608	3334697	350905	2.427	VV	PCB254;3
55	19.858	3880474	521909	2.825	VV	PCB254;4
56	20.126	2032205	305276	1.479	VV	
57	20.292	8866828	984930	6.454	VV +	PCB260;1
58	20.557	2553125	264712	1.858	VV	
59	20.759	7293619	979593	5.309	VV +	
60	20.940	7879370	810794	5.736	VV	PCB260;2
61	21.332	6144692	679215	4.473	VE	PCB260;3
62	21.675	958370	98549	0.698	EV	
63	21.924	1337600	181408	0.974	VV	
64	22.126	1655457	219864	1.205	VV	
65	22.448	3080661	464795	2.242	VV	PCB254;5
66	22.642	3134013	402705	2.281	VV	PCB260;4
67	22.830	2995209	405614	2.180	VV	
68	23.045	7505672	928189	5.463	VV	
69	23.452	965216	131669	0.703	VV	
70	23.592	737684	91884	0.537	VE	
71	23.964	98041	12756	0.071	EB	
72	24.296	5854	1120	0.004	BV	
73	24.595	462737	78599	0.337	VV	PCB260;5
74	24.742	2072629	334177	1.509	VV	

75	24.832	1783624	266080	1.298	VV	
76	25.120	2429184	302063	1.768	VE	DBUCLE
77	25.488	86542	8619	0.063	EB	
78	26.216	24078	2738	0.018	BV	
79	26.391	24724	3284	0.018	VV	
80	26.646	413794	45569	0.301	VV	
81	26.766	139982	33540	0.102	VV	
82	26.909	1698808	189519	1.237	VE	
83	27.244	174325	15788	0.127	EV	
84	27.496	67996	7705	0.049	EV	
85	27.730	79560	8768	0.058	VV	
86	27.936	37000	4054	0.027	VE	
87	28.186	5900	756	0.004	EB	
88	28.444	6271	901	0.005	BB	
89	28.733	48490	8097	0.035	BV	
90	28.869	147697	19981	0.108	VE	
91	29.210	10828	873	0.008	EB	
92	29.932	6505	528	0.005	BV	
93	30.202	7290	809	0.005	VB	
94	30.669	61792	7259	0.045	BV	
95	30.894	120577	5888	0.088	VB	
96	32.076	3805	347	0.003	BV	
97	32.532	328243	33438	0.239	VB	CL10BP
98	33.112	1471	190	0.001	BB	
99	33.441	59344	5392	0.043	BV	
100	33.628	20306	2399	0.015	VB	
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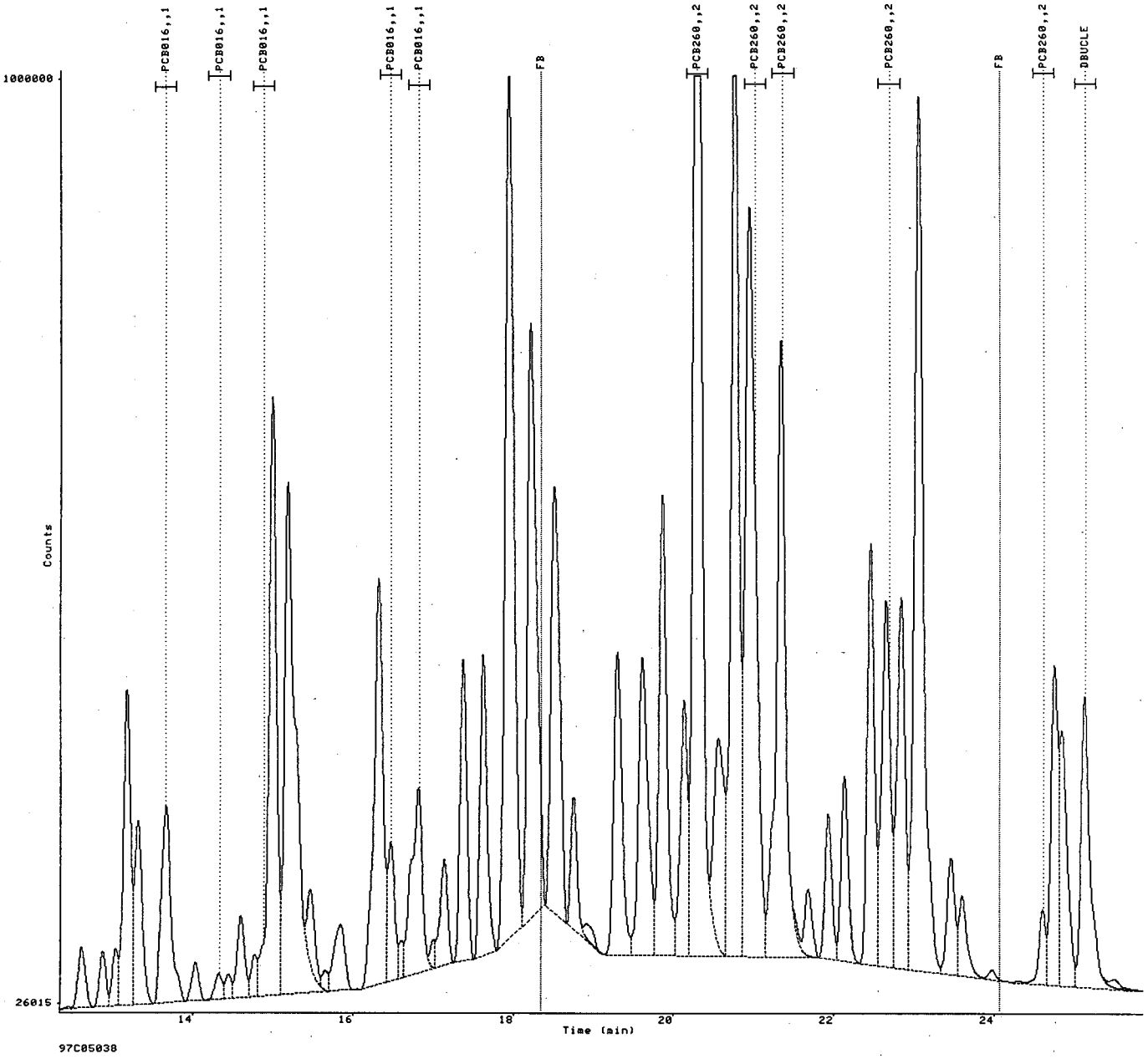
Totals		137378529		100.000		

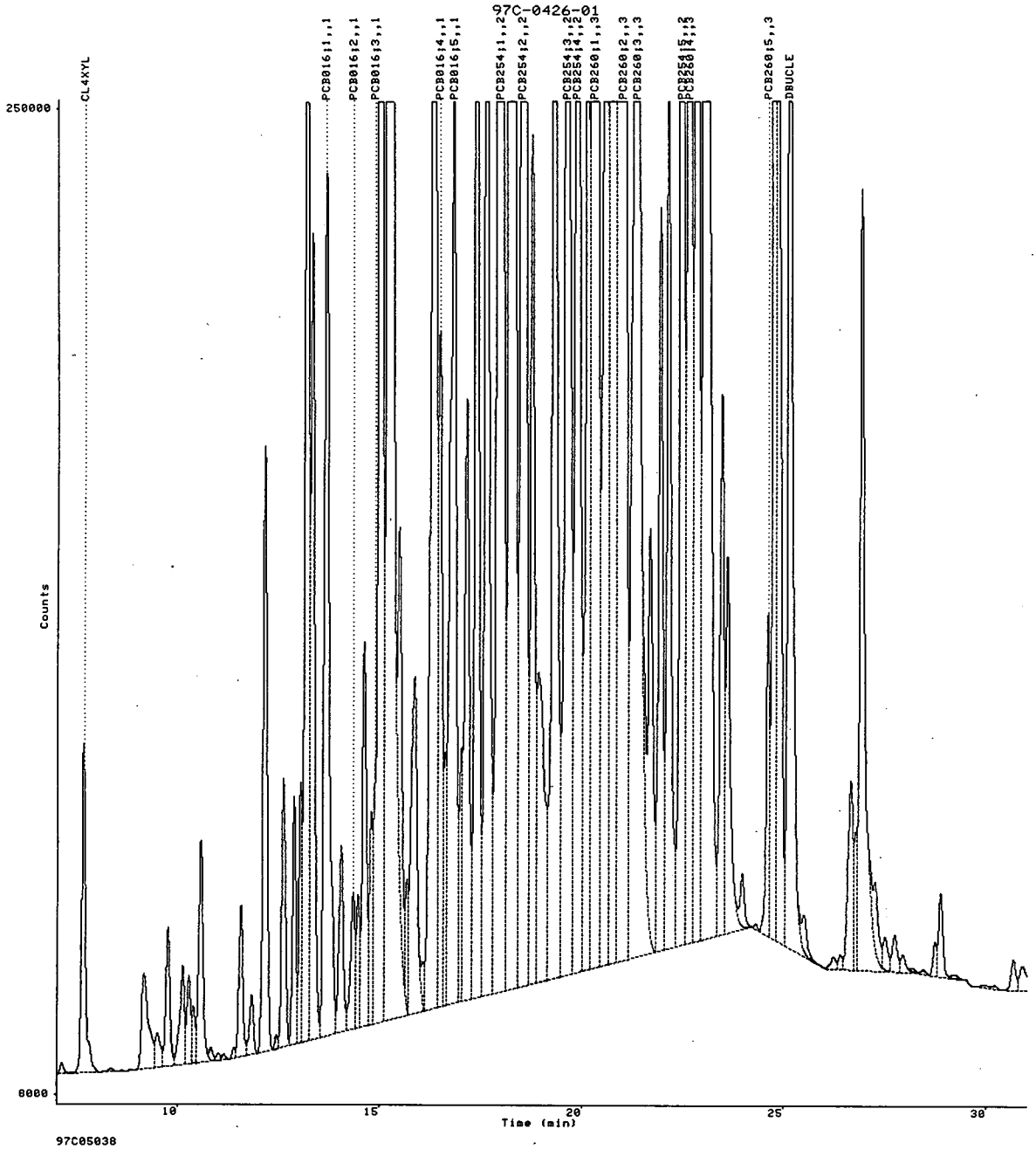
ANALYSIS NOTES

1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316051.RAW;1
Report: 1197248536
Acquired: 13-NOV-1997 23:19:48
Time range: 12.35-25.85



Data file: DISK:[TAYLORC]5997316051.RAW;1
Report: 1197250785
Acquired: 13-NOV-1997 23:19:48
Time range: 7.00-31.00



0395

Date.....17-NOV-1997 17:51:31.34 User: TAYLORC
Report number.....1197250786
Raw file.....DISK:[TAYLORC]5997316052.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....13-NOV-1997 23:57:10
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05039
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.000 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....99
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	7.146			817		BV	
	7.367			821		VV	
CL4XYL	7.650	1.31	17.93	71158		VB	
	8.260			306		BB	
	8.641			1491		BV	
	8.848			4504		VB	
	9.147			6042		BV	
	9.497			4172		VV	

0396

	9.757				49546	VV	
	10.129				9967	VV	
	10.284				3915	VV	
	10.401				3849	VV	
	10.574				14290	VE	
	10.835				1087	EV	
	10.962				450	EV	
	11.153				382	VB	
	11.536				18921	BV	
	11.834				8568	VV	
	12.154				24102	VB	
	12.617				34183	BV	
	12.880				32621	VV	
	13.057				22706	VV	
	13.178				46039	VV	
	13.322				27753	VV	
PCB016;1	13.677	-0.68	51.47		65747	VV	1
	14.047				22213	VV	
PCB016;2	14.307	2.12	21.24		11481	VE	1
	14.452				1747	EV	
	14.609				86910	VV	
PCB016;3	14.783	6.52	104.4		45298	VV	1
	15.001				389039	VV	
	15.193				353320	VV	
	15.290				263894	VE	
	15.486				34319	EV	
	15.677				22298	VV	
	15.844				68562	VE	
	16.070				2732	EV	
	16.319				247088	VV	
PCB016;4	16.473	0.22	374.8	+	106024	VV	1
	16.729				109068	VV	
PCB016;5	16.808	1.46	247.1	+	105715	VV	1
	17.132				76087	VV	
	17.374				208215	VV	
	17.623				261384	VV	
PCB254;1	17.945	0.90			977938	VV	2
	18.216				720418	VV	
PCB254;2	18.518	-0.39			553828	VE	2
	18.750				119131	EV	
	18.976				36019	EV	
	19.295				303479	VV	
PCB254;3	19.603	0.62			324927	VV	2
PCB254;4	19.856	0.52			506325	VV	2
	20.124				264530	VV	
PCB260;1	20.290	0.29	1074	+	995056	VE	3
	20.560				189721	EV	
	20.759				898746	VV	
PCB260;2	20.990	1.30	557.9	+	535793	VV	3
PCB260;3	21.333	1.53	517.1	+	686937	VE	3
	21.677				81526	EV	
	21.923				114099	VV	
	22.126				218950	VV	
PCB254;5	22.449	0.51			386192	VV	2
PCB260;4	22.643	0.80	557.0	+	418561	VV	
	22.831				403169	VV	
	23.046				968742	VE	
	23.451				122180	EV	
	23.594				95315	EV	
	23.947				23699	VB	

	24.286				1403	BV	
PCB260;5	24.596	0.54	138.0	+	87883	VV	3
	24.743				353861	VV	
	24.831				244544	VV	
DBUCLE	25.121	0.46	81.43		298911	VE	
	25.366				8875	EV	
	25.567				21089	EV	
	25.860				7553	VV	
	26.207				6957	VV	
	26.401				5566	VV	
	26.644				42117	VV	
	26.754				28197	VV	
	26.910				171266	VE	
	27.251				13743	EV	
	27.504				8102	EV	
	27.730				66290	VE	
	28.438				3994	EV	
	28.734				11700	EV	
	28.870				24375	VE	
	29.331				1777	EV	
	29.474				1747	EV	
	29.647				1561	VV	
	29.905				657	VB	
	30.667				7381	BE	
	30.887				1332	EB	
	31.295				649	BB	
	32.057				838	BB	
CL10BP	32.532	2.99			25623	BB	
	33.136				108	BB	
	33.443				4650	BV	
	33.643				2121	VB	

GROUP REPORT

Group	UG/SAMPLE
1	799.0
3	2844

AREA PERCENT REPORT

Peak	R.T.(min)	Peak Area	Peak Ht	Area%	Ref Std	BL R	Peak Name
1	7.146	5918	817	0.005		BV	
2	7.367	5088	821	0.005		VV	
3	7.650	472941	71158	0.429		VB	CL4XYL
4	8.260	1510	306	0.001		BB	
5	8.641	9120	1491	0.008		BV	
6	8.848	29428	4504	0.027		VB	
7	9.147	56370	6042	0.051		BV	
8	9.497	27365	4172	0.025		VV	
9	9.757	332226	49546	0.301		VV	
10	10.129	66168	9967	0.060		VV	
11	10.284	23902	3915	0.022		VV	
12	10.401	22935	3849	0.021		VV	
13	10.574	110001	14290	0.100		VE	
14	10.835	6485	1087	0.006		EV	
15	10.962	2907	450	0.003		EV	
16	11.153	2245	382	0.002		VB	

17	11.536	168862	18921	0.153	BV	
18	11.834	83115	8568	0.075	VV	
19	12.154	184616	24102	0.167	VB	
20	12.617	235090	34183	0.213	BV	
21	12.880	188452	32621	0.171	VV	
22	13.057	126924	22706	0.115	VV	
23	13.178	321285	46039	0.291	VV	
24	13.322	178684	27753	0.162	VV	
25	13.677	624060	65747	0.566	VV	PCB016;1
26	14.047	142438	22213	0.129	VV	
27	14.307	102197	11481	0.093	VE	PCB016;2
28	14.452	6057	1747	0.005	EV	
29	14.609	565011	86910	0.513	VV	
30	14.783	348834	45298	0.316	VV	PCB016;3
31	15.001	2543239	389039	2.307	VV	
32	15.193	2266561	353320	2.056	VV	
33	15.290	1652052	263894	1.499	VE	
34	15.486	216953	34319	0.197	EV	
35	15.677	113943	22298	0.103	VV	
36	15.844	649013	68562	0.589	VE	
37	16.070	11327	2732	0.010	EV	
38	16.319	1961419	247088	1.780	VV	
39	16.473	691970	106024	0.628	VV	PCB016;4
40	16.729	701487	109068	0.636	VV	
41	16.808	643530	105715	0.584	VV	PCB016;5
42	17.132	711655	76087	0.646	VV	
43	17.374	1348998	208215	1.224	VV	
44	17.623	1923022	261384	1.745	VV	
45	17.945	8467405	977938	7.682	VV +	PCB254;1
46	18.216	6482264	720418	5.881	VV	
47	18.518	5140049	553828	4.663	VE	PCB254;2
48	18.750	763551	119131	0.693	EV	
49	18.976	280765	36019	0.255	EV	
50	19.295	2280323	303479	2.069	VV	
51	19.603	2722646	324927	2.470	VV	PCB254;3
52	19.856	3327115	506325	3.019	VV	PCB254;4
53	20.124	1550809	264530	1.407	VV	
54	20.290	8506889	995056	7.718	VE +	PCB260;1
55	20.560	1611497	189721	1.462	EV	
56	20.759	6272781	898746	5.691	VV	
57	20.990	4728272	535793	4.290	VV	PCB260;2
58	21.333	6059361	686937	5.497	VE	PCB260;3
59	21.677	570732	81526	0.518	EV	
60	21.923	805483	114099	0.731	VV	
61	22.126	1474106	218950	1.337	VV	
62	22.449	2496418	386192	2.265	VV	PCB254;5
63	22.643	3229241	418561	2.930	VV	PCB260;4
64	22.831	2964547	403169	2.690	VV	
65	23.046	7814609	968742	7.090	VE +	
66	23.451	865131	122180	0.785	EV	
67	23.594	768054	95315	0.697	EV	
68	23.947	170487	23699	0.155	VB	
69	24.286	10354	1403	0.009	BV	
70	24.596	522210	87883	0.474	VV	PCB260;5
71	24.743	2330436	353861	2.114	VV	
72	24.831	1551840	244544	1.408	VV	
73	25.121	2522868	298911	2.289	VE	DBUCLE
74	25.366	82632	8875	0.075	EV	
75	25.567	206728	21089	0.188	EV	
76	25.860	58449	7553	0.053	VV	

77	26.207	110602	6957	0.100	VV	
78	26.401	43701	5566	0.040	VV	
79	26.644	418429	42117	0.380	VV	
80	26.754	130532	28197	0.118	VV	
81	26.910	1231918	171266	1.118	VE	
82	27.251	157890	13743	0.143	EV	
83	27.504	76636	8102	0.070	EV	
84	27.730	701860	66290	0.637	VE	
85	28.438	64461	3994	0.058	EV	
86	28.734	88267	11700	0.080	EV	
87	28.870	224392	24375	0.204	VE	
88	29.331	21378	1777	0.019	EV	
89	29.474	14924	1747	0.014	EV	
90	29.647	17542	1561	0.016	VV	
91	29.905	6881	657	0.006	VB	
92	30.667	63712	7381	0.058	BE	
93	30.887	11221	1332	0.010	EB	
94	31.295	5182	649	0.005	BB	
95	32.057	8988	838	0.008	BB	
96	32.532	229587	25623	0.208	BB	CL10BP
97	33.136	597	108	0.001	BB	
98	33.443	51429	4650	0.047	BV	
99	33.643	18795	2121	0.017	VB	
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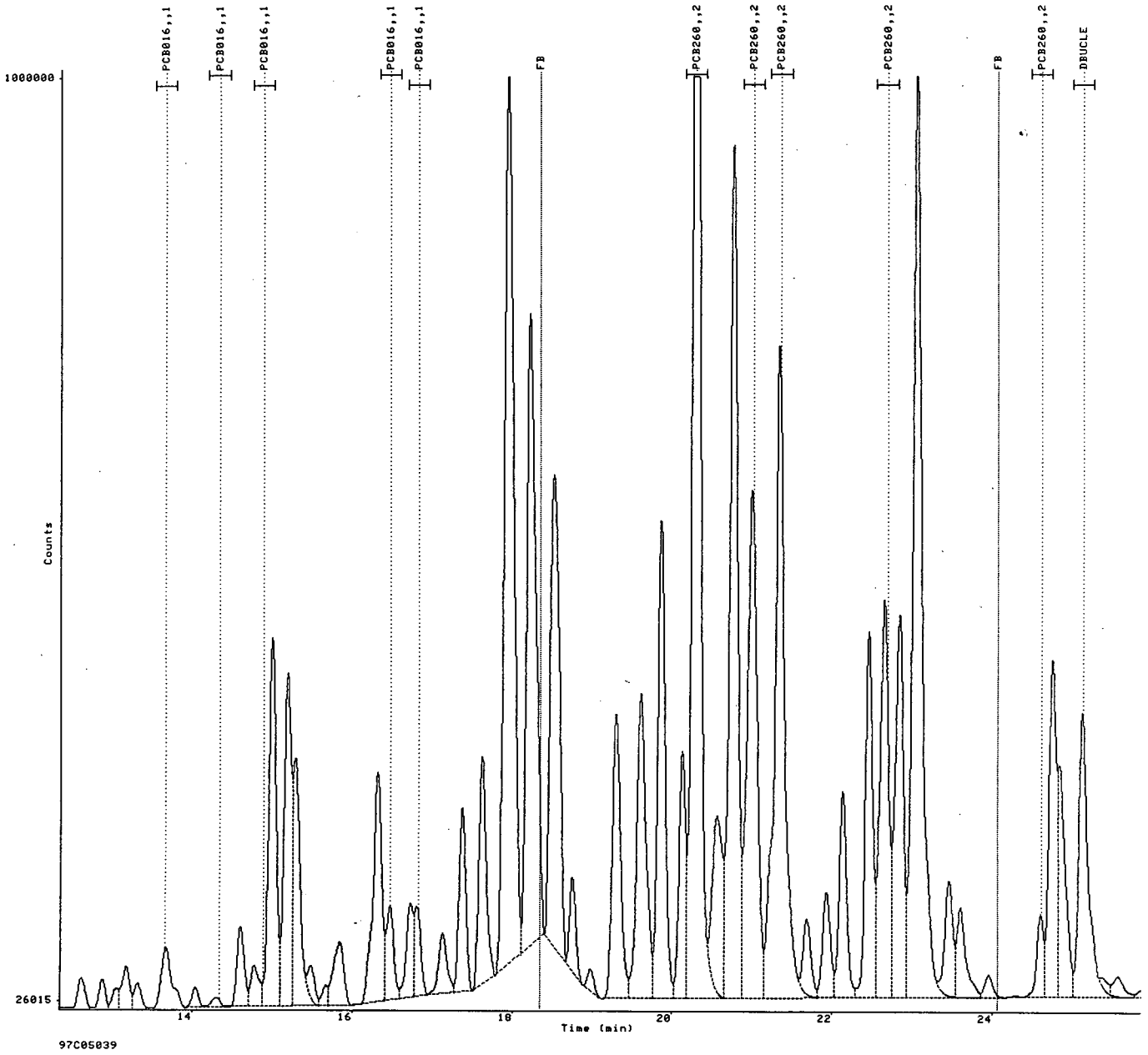
Totals		110222379		100.000		

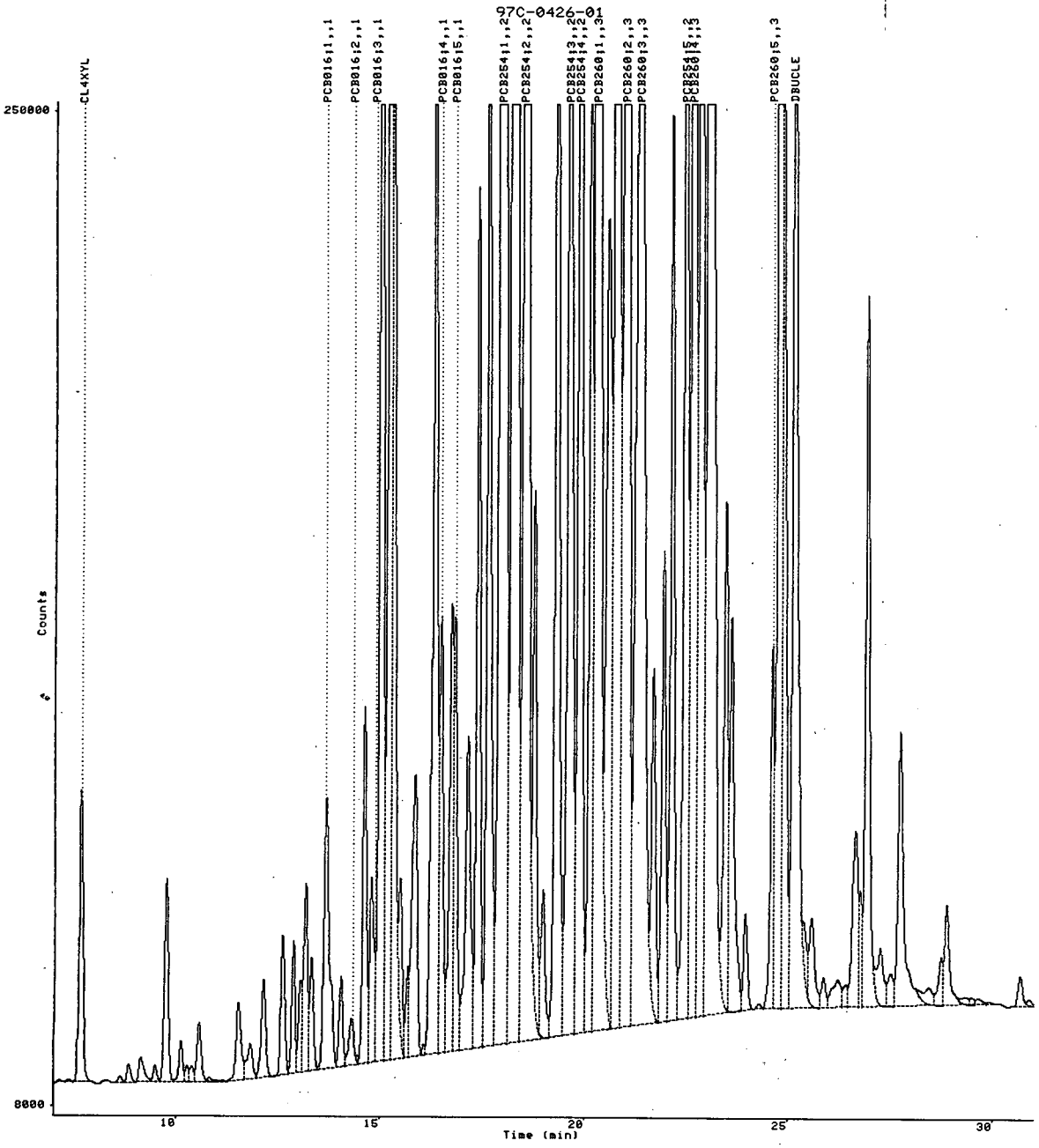
ANALYSIS NOTES

1: Range error during data acquisition. (128)
2: Warning, Data unsuited to calculate offset for a named peak. (146)
3: Response is outside of the response function domain. (149)
4: Warning, Insufficient data for requested calculation fit. (153)
5: WARNING: Peak windows overlap. Check peak identification. (245)
6: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316052.RAW;1
Report: 1197248537
Acquired: 13-NOV-1997 23:57:10
Time range: 12.35-25.85



Data file: DISK:[TAYLORC]5997316052.RAW;1
Report: 1197250786
Acquired: 13-NOV-1997 23:57:10
Time range: 7.00-31.00



97C05039

0402

Date.....17-NOV-1997 17:52:00.30 User: TAYLORC
Report number.....1197250788
Raw file.....DISK:[TAYLORC]5997316054.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....15-NOV-1997 13:08:53
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....PRIME
Notes.....

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....75
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...1.00000E+00

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	7.675	-0.19	0.2513	327750			BB	
	8.320			159			BB	
	9.085			1188			BV	
	9.248			5795			VV	
	9.535			4998			VB	
	10.159			6334			BV	
	10.426			24778			VE	
	10.664			1273			EV	

0403

	10.825			767	EB	
	11.656			3874	BV	
	11.861			6992	VV	
	12.180			69372	VE	
	12.637			5576	EV	
	13.060			19824	VV	
	13.205			11329	VV	
	13.386			29141	VV	
PCB016;1	13.683	-0.99	0.1724	73430	VB	1
PCB016;2	14.358	-0.97	0.1798	32752	BE	1
	14.630			5794	EV	
PCB016;3	14.902	-0.58	0.2073	27988	VV	1
	15.027			33589	VV	
	15.207			33866	VV	
	15.326			17166	VV	
	15.475			12733	VB	
	15.891			3347	BB	
	16.341			37144	BV	
PCB016;4	16.502	-1.49	0.2007	14222	VE	1
	16.631			2660	EV	
	16.751			11323	VV	
PCB016;5	16.839	-0.42	0.1899	20335	VV	1
	17.042			7763	VV	
	17.172			3065	VV	
	17.393			4756	VV	
	17.643			9542	VB	
PCB254;1	17.974	-0.84	0.1014	31120	BV	2
	18.230			31386	VE	
PCB254;2	18.530	-1.12	4.136E-03-	521	EV	2
	18.662			1648	EV	
	18.758			1231	EB	
	19.308			1824	BB	
PCB254;3	19.696	-4.98	9.202E-03	1220	BV	2
PCB254;4	19.880	-0.90	0.02744	6142	VB	2
PCB260;1	20.290	0.30	0.2468	49303	BV	3
	20.631			18130	VV	
PCB260;2	21.010	0.09	0.2465	76493	VV	3
PCB260;3	21.353	0.32	0.2529	91567	VE	3
	21.687			3959	EB	
	21.922			946	BB	
	22.143			36361	BB	
PCB254;5	22.461	-0.24	3.333E-03-	319	BB	2
PCB260;4	22.677	-1.24	0.2464	50448	BV	3
	22.851			35723	VV	
	23.064			73425	VV	
	23.194			62564	VV	
	23.448			31069	VE	
	23.598			1282	EV	
	23.794			2208	EV	
	23.983			9349	VB	
PCB260;5	24.612	-0.45	0.2536	51037	BV	3
	24.772			14878	VV	
	24.934			31854	VV	
DBUCLE	25.125	0.26	0.2580	317488	VE	
	25.450			3943	EB	
	26.229			3307	BB	
	26.602			25714	BV	
	26.775			16170	VV	
	26.924			58822	VE	
	27.268			1292	EB	

	27.734		922	BV
	27.954		2209	VB
	28.471		617	BB
	28.752		8103	BV
	28.888		20192	VB
	30.686		4691	BB
CL10BP	32.558	1.44	93985	BB

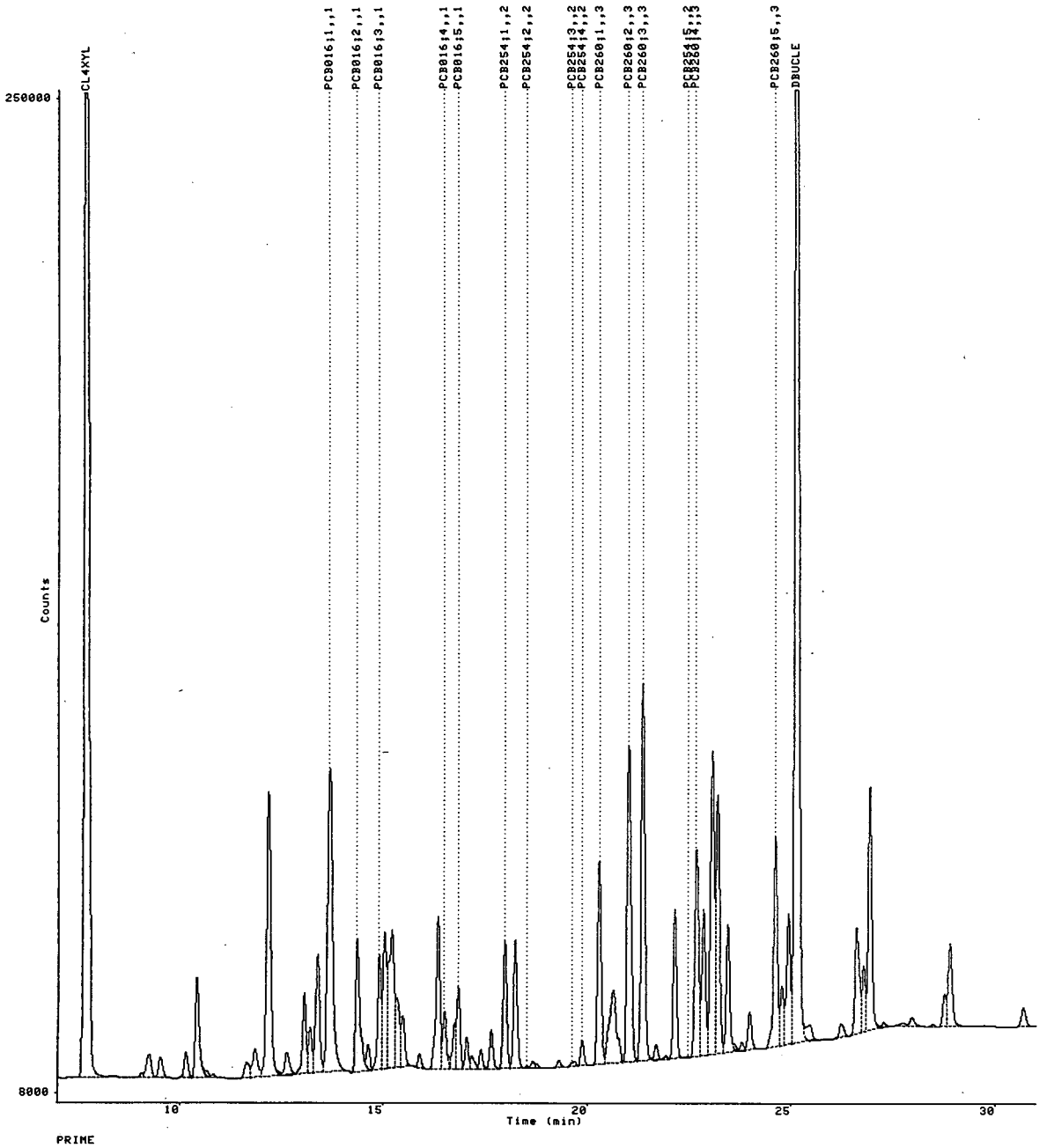
GROUP REPORT

Group	UG/SAMPLE
1	0.9500
2	0.1456
3	1.246

ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316054.RAW;1
Report: 1197250788
Acquired: 15-NOV-1997 13:08:53
Time range: 7.00-31.00



0406

Date.....17-NOV-1997 17:52:38.89 User: TAYLORC
Report number.....1197250791
Raw file.....DISK:[TAYLORC]5997316063.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....15-NOV-1997 20:20:30
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05021 X50
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....67
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	7.644	1.67	0.3938 -	1513			BB	
	9.141			9317			BB	
	9.748			301			BB	
	10.132			235			BB	
	10.281			165			BB	
	10.577			1246			BB	
	11.633			267			BV	
	11.833			467			VV	

040

	12.155			2913	VB	
	12.612			2050	BE	
	12.874			241	EB	
	13.041			1582	BV	
	13.183			5591	VV	
	13.321			4070	VV	
PCB016;1	13.674	-0.49	4.109	5282	VE	1
	14.020			304	EB	
PCB016;2	14.325	1.00	1.140 -	653	BV	1
	14.459			242	VV	
	14.610			5261	VV	
PCB016;3	14.780	6.73	9.472	3270	VV	1
	15.004			20298	VV	
	15.196			23999	VV	
	15.290			17339	VV	
	15.454			12037	VV	
	15.859			2613	VB	
	16.322			11155	BV	
PCB016;4	16.477	-0.01	29.08	5924	VV	1
PCB016;5	16.728	6.25	27.66	8304	VE	1
	17.009			607	EV	
	17.152			2005	VV	
	17.380			8931	VV	
	17.627			12980	VV	
PCB254;1	17.950	0.63	34.38	31609	VV	2
	18.220			27750	VV	
PCB254;2	18.505	0.36	50.19	20004	VV	2
	18.752			4974	VB	
	19.298			10741	BV	
PCB254;3	19.605	0.47	27.75	10602	VV	2
PCB254;4	19.857	0.45	18.53	12298	VV	2
	20.124			6507	VV	
PCB260;1	20.292	0.20	85.72	51468	VE	3
	20.566			8023	EV	
	20.767			33591	VV	
PCB260;2	20.921	5.44	103.4	96383	VV	3
PCB260;3	21.335	1.39	26.25	27513	VE	3
	21.672			2774	EV	
	21.907			1096	EV	
	22.125			5527	VB	
PCB254;5	22.456	0.03	20.89	8503	BV	2
PCB260;4	22.645	0.68	25.96	15526	VV	3
	22.833			13555	VV	
	23.050			34752	VE	
	23.453			3131	EV	
	23.592			2235	EB	
	23.987			458	BB	
PCB260;5	24.594	0.66	4.874	2506	BV	3
	24.746			10075	VV	
	24.846			6728	VV	
DBUCLE	25.123	0.39	3.107	8588	VB	
	26.650			912	BV	
	26.912			4768	VB	
	27.268			193	BB	
	27.728			668	BE	
	27.947			120	EB	
	28.872			497	BB	
	30.662			287	BB	
CL10BP	32.530	3.13		11647	BB	

GROUP REPORT

Group	UG/SAMPLE
1	71.46
2	151.7
3	246.2

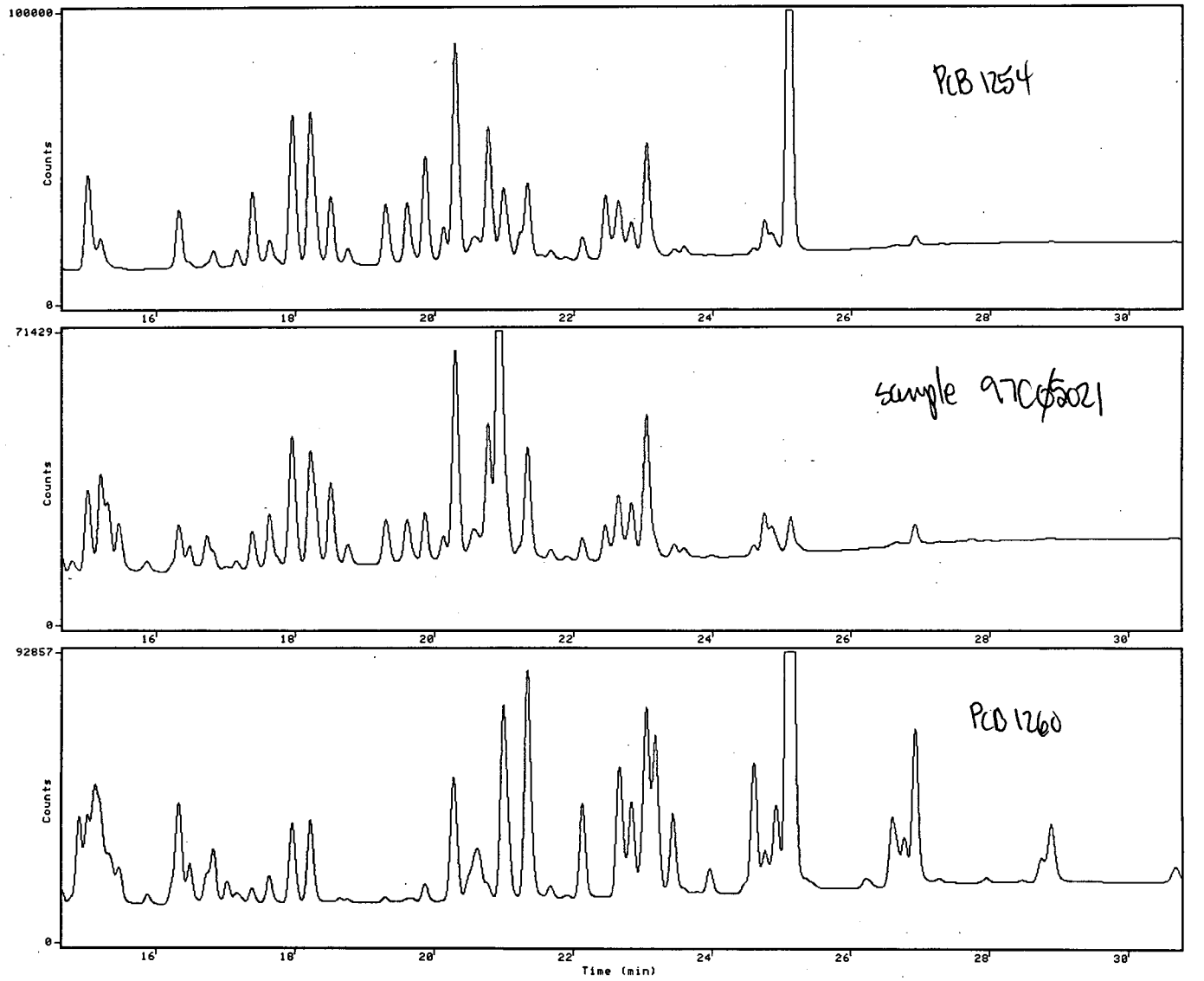
ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

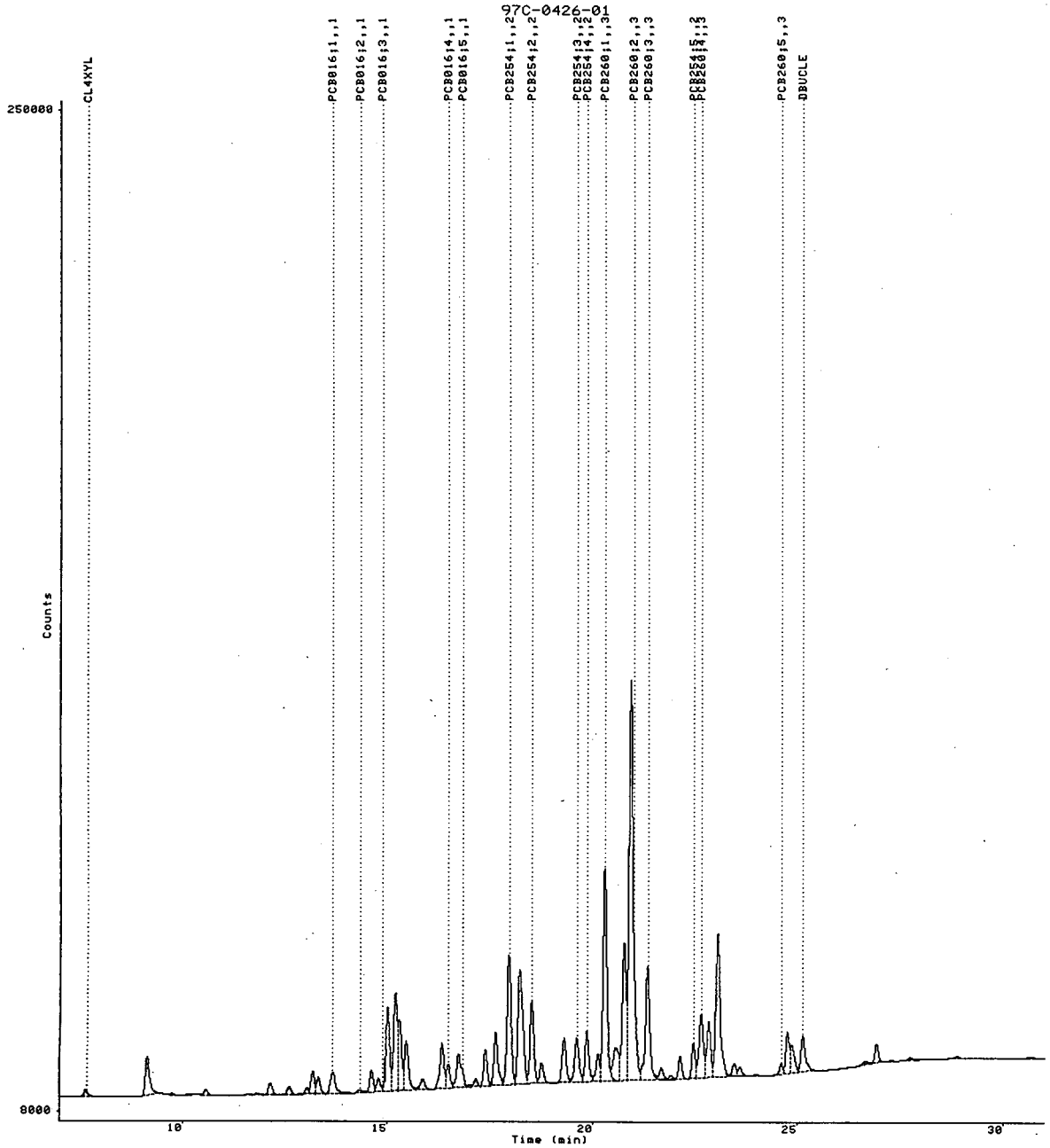
Date: 18-NOV-1997 08:56:16.64

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316063	14.62	30.78	0	71429	1
5997316073	14.62	30.78	0	92857	1

PCB 1254 match



Data file: DISK:[TAYLORC]5997316063.RAW;1
Report: 1197250791
Acquired: 15-NOV-1997 20:20:30
Time range: 7.00-31.00



97C05021 X50

0411

Date.....17-NOV-1997 17:52:51.56 User: TAYLORC
Report number.....1197250792
Raw file.....DISK:[TAYLORC]5997316064.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....15-NOV-1997 20:57:54
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05020 X50
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....70
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	7.660	0.73	0.3509 -	1342		BB	
	8.854			102		BB	
	9.156			1727		BB	
	9.765			974		BB	
	10.138			226		BB	
	10.298			70		BB	
	10.590			809		BB	
	11.589			51		BB	

0412

	11.846			617	BB	
	12.165			2358	BB	
	12.618			2230	BV	
	12.881			493	VV	
	13.051			1409	VV	
	13.188			3113	VV	
	13.330			1989	VV	
PCB016;1	13.682	-0.94	2.894	3738	VV	1
	14.052			465	VB	
PCB016;2	14.330	0.70	0.7666 -	453	BB	1
	14.616			4094	BV	
PCB016;3	14.786	6.38	6.478	2179	VV	1
	15.009			18333	VV	
	15.201			16802	VV	
	15.295			11026	VE	
	15.472			1312	EV	
	15.667			383	VV	
	15.861			1801	VB	
	16.326			9964	BV	
PCB016;4	16.479	-0.14	18.89	3801	VV	1
	16.734			3917	VV	
PCB016;5	16.816	0.97	13.48	3922	VE	1
	17.019			463	EV	
	17.154			2079	VV	
	17.385			8552	VV	
	17.631			8280	VV	
PCB254;1	17.954	0.35	32.25	29769	VV	2
	18.223			23915	VV	
PCB254;2	18.513	-0.13	37.78	15318	VE	2
	18.756			3637	EV	
	18.984			297	VB	
	19.299			9385	BV	
PCB254;3	19.608	0.27	22.49	8680	VV	2
PCB254;4	19.861	0.24	18.74	12433	VV	2
	20.128			5222	VV	
PCB260;1	20.295	0.03	65.17	38669	VE	3
	20.576			5082	EV	
	20.770			22868	VV	
PCB260;2	20.972	2.38	18.40	17026	VV	3
PCB260;3	21.338	1.22	16.04	16626	VE	3
	21.675			1658	EB	
	21.916			937	BV	
	22.128			3573	VB	
PCB254;5	22.460	-0.16	17.91	7311	BV	2
PCB260;4	22.648	0.49	16.91	10072	VV	3
	22.834			7808	VV	
	23.053			21466	VE	
	23.452			1661	EV	
	23.596			1389	EB	
	23.972			202	BB	
PCB260;5	24.596	0.53	2.927	1416	BV	3
	24.747			5925	VV	
	24.847			3461	VV	
DBUCLE	25.122	0.44	1.902	4524	VB	
	26.660			469	BV	
	26.761			213	VV	
	26.912			2385	VB	
	27.276			65	BB	
	27.728			2320	BB	
	28.875			236	BB	

0413

	30.666		153	BB
CL10BP	32.532	3.02	4669	BB

GROUP REPORT

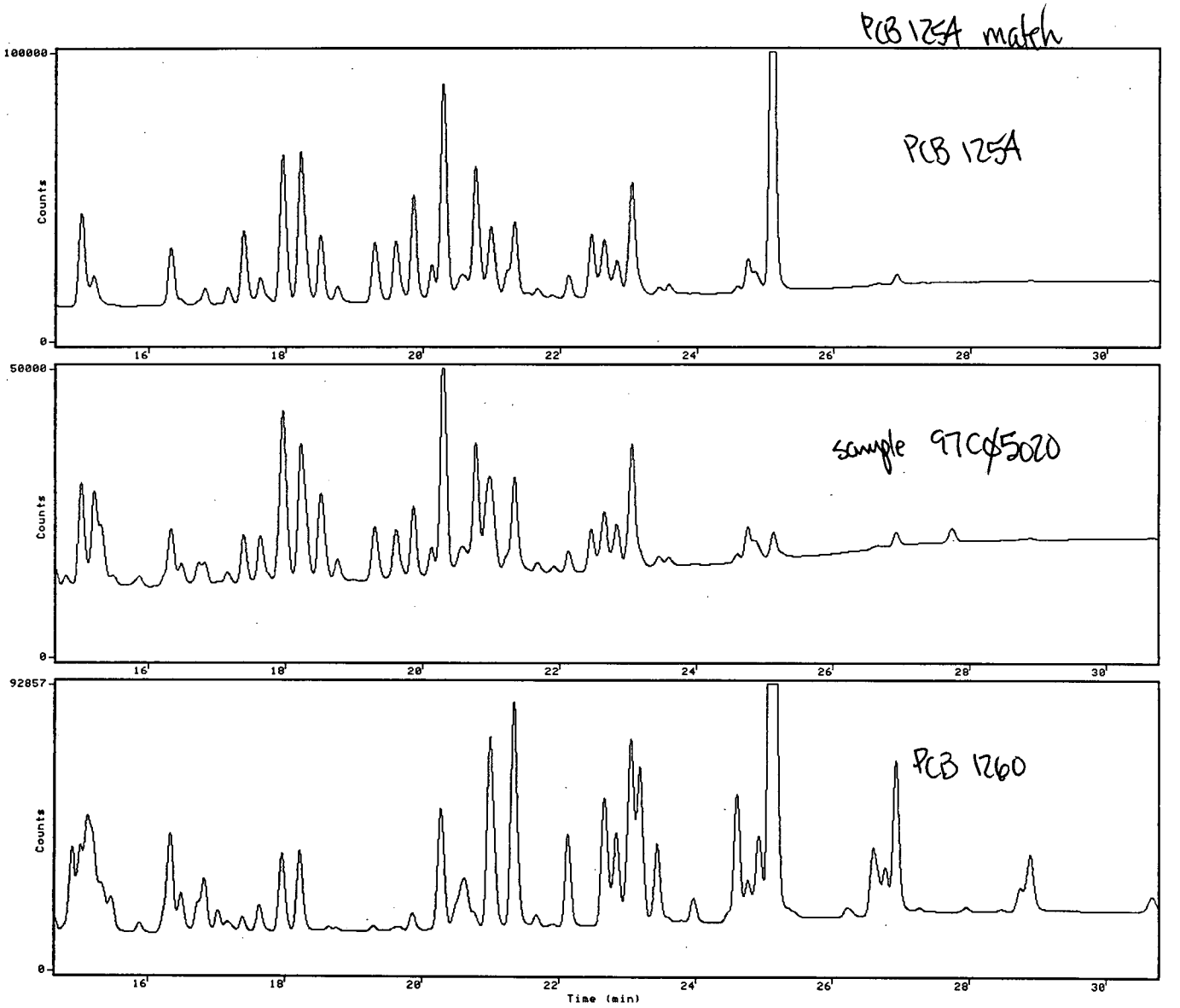
Group	UG/SAMPLE
1	42.51
2	129.2
3	119.4

ANALYSIS NOTES

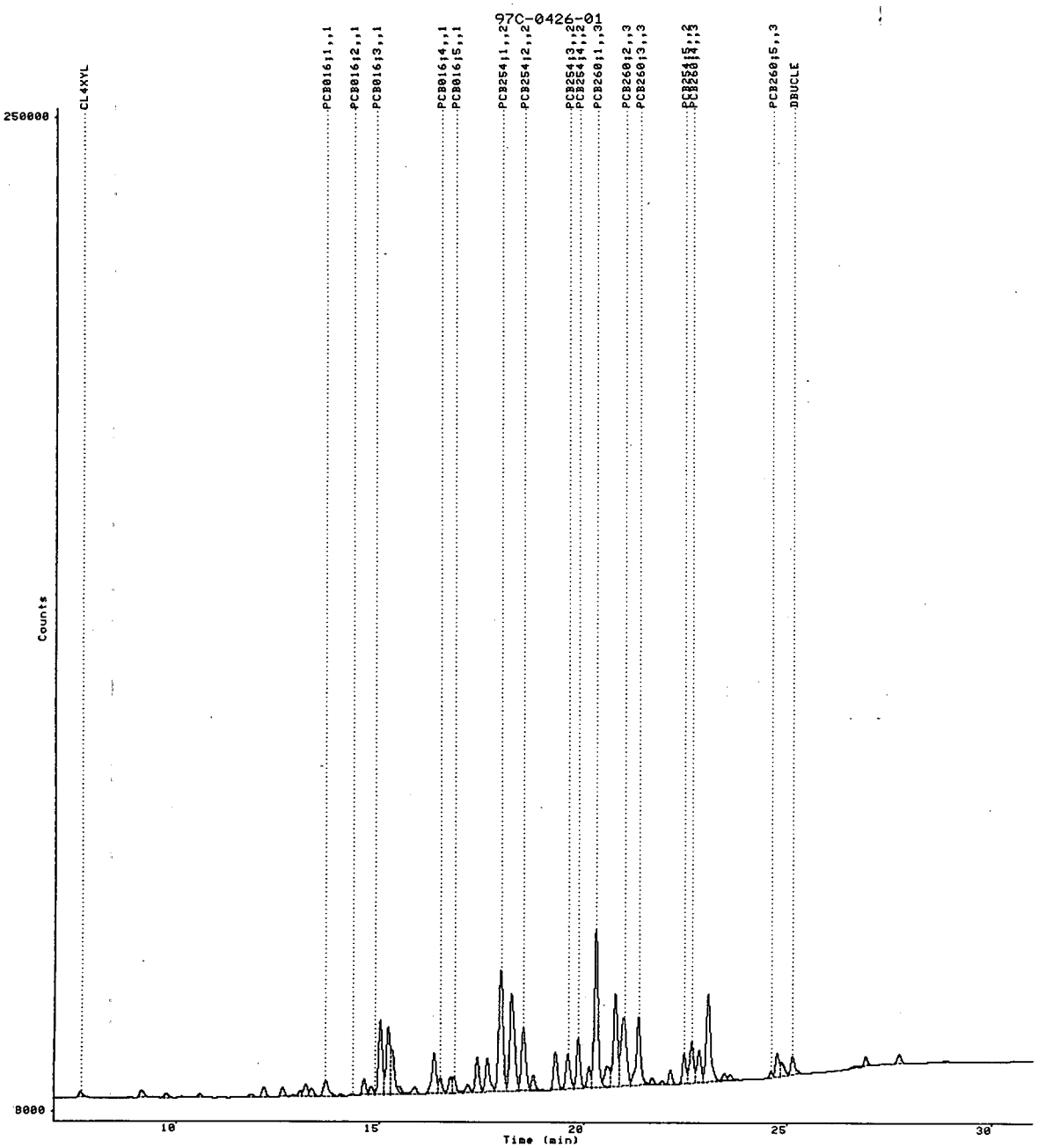
1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Date: 18-NOV-1997 08:57:59.73

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316064	14.62	30.78	0	50000	1
5997316073	14.62	30.78	0	92857	1



Data file: DISK:[TAYLORC]5997316064.RAW;1
Report: 1197250792
Acquired: 15-NOV-1997 20:57:54
Time range: 7.00-31.00



97C05020 X50

0416

Date.....17-NOV-1997 17:53:05.75 User: TAYLORC
Report number.....1197250793
Raw file.....DISK:[TAYLORC]5997316065.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....15-NOV-1997 21:35:13
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05022 X50
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....70
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	7.646	1.54	0.4808 -	1860			BB	
	8.846			74			BB	
	9.141			3458			BB	
	9.753			1007			BB	
	10.128			335			BB	
	10.284			76			BB	
	10.579			676			BB	
	11.644			370			BV	

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	11.837			639	VV	
	12.156			1526	VB	
	12.612			1776	BV	
	12.876			517	VB	
	13.050			1027	BV	
	13.178			2937	VV	
	13.324			1438	VB	
PCB016;1	13.676	-0.61	2.149	2792	BV	1
	14.046			428	VB	
PCB016;2	14.321	1.27	0.6301 -	380	BB	1
	14.611			3722	BV	
PCB016;3	14.782	6.59	5.766	1922	VV	1
	15.005			17882	VV	
	15.196			15773	VV	
	15.290			9994	VV	
	15.460			2998	VE	
	15.664			309	EV	
	15.852			1691	VB	
	16.323			9877	BV	
PCB016;4	16.475	0.11	17.84	3585	VV	1
	16.730			3582	VV	
PCB016;5	16.811	1.26	12.09	3506	VV	1
	17.148			1803	VV	
	17.380			8068	VV	
	17.627			8266	VV	
PCB254;1	17.951	0.55	35.00	32137	VV	2
	18.219			25616	VV	
PCB254;2	18.512	-0.07	41.71	16822	VE	2
	18.753			3846	EV	
	18.983			351	VB	
	19.297			9813	BV	
PCB254;3	19.605	0.51	24.69	9488	VV	2
PCB254;4	19.859	0.37	20.79	13759	VV	2
	20.126			5853	VV	
PCB260;1	20.292	0.18	75.61	45134	VE	3
	20.573			5846	EV	
	20.766			26797	VV	
PCB260;2	20.951	3.66	24.47	22666	VV	3
PCB260;3	21.335	1.35	19.85	20678	VE	3
	21.674			1962	EB	
	21.918			1568	BV	
	22.126			4552	VB	
PCB254;5	22.456	0.05	21.23	8640	BV	2
PCB260;4	22.646	0.60	20.44	12195	VV	3
	22.832			10280	VV	
	23.050			27906	VE	
	23.451			2333	EV	
	23.595			1747	EB	
	23.970			384	BB	
PCB260;5	24.595	0.60	3.784	1895	BV	3
	24.747			7963	VV	
	24.843			4685	VV	
DBUCLE	25.121	0.48	2.462	6413	VB	
	25.587			153	BB	
	26.660			652	BV	
	26.762			317	VV	
	26.911			3464	VB	
	27.263			98	BB	
	27.728			2012	BB	
	28.872			378	BB	

	30.665		236	BB
CL10BP	32.530	3.09	4567	BB

GROUP REPORT

Group	UG/SAMPLE
1	38.48
2	143.4
3	144.2

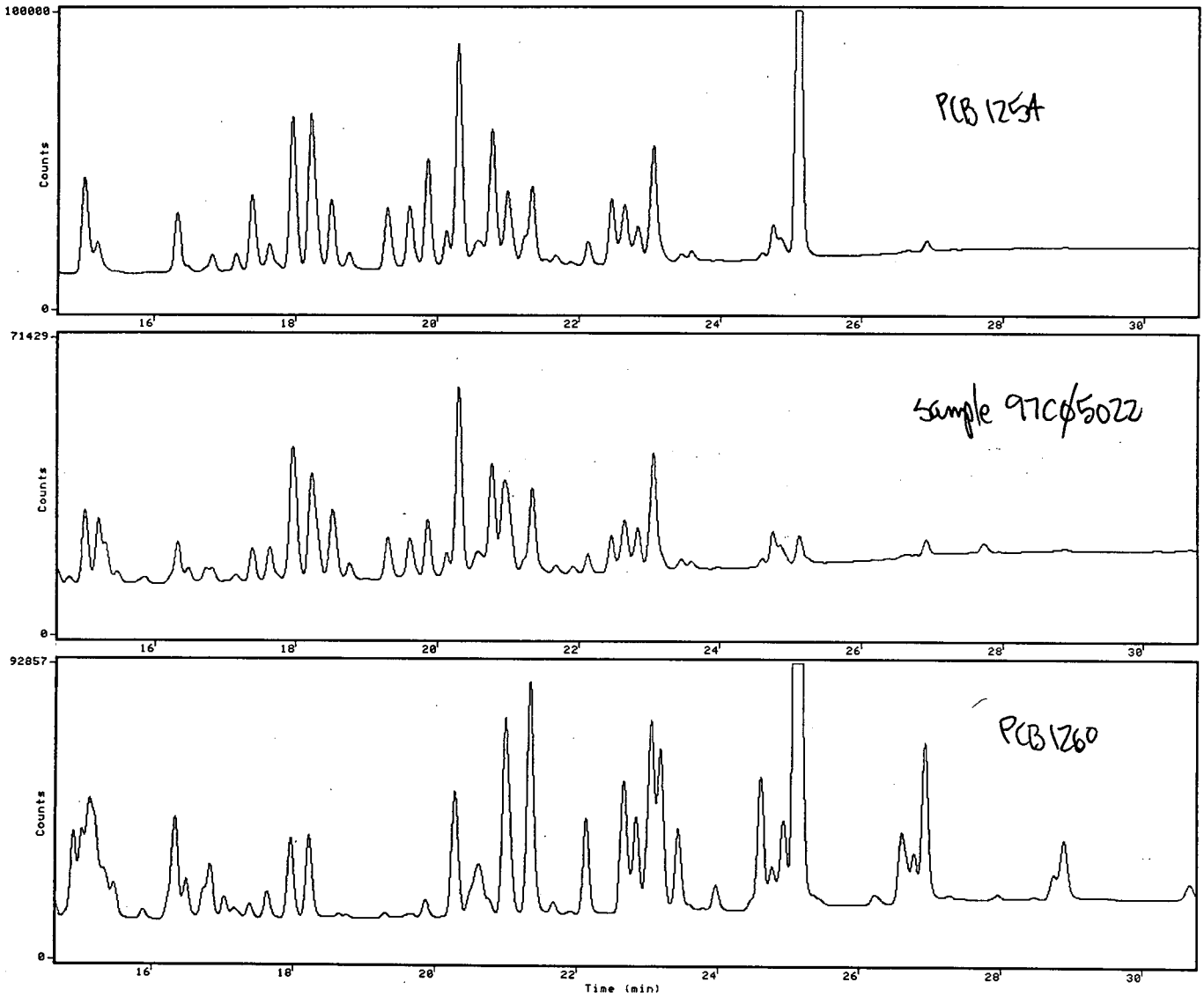
ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

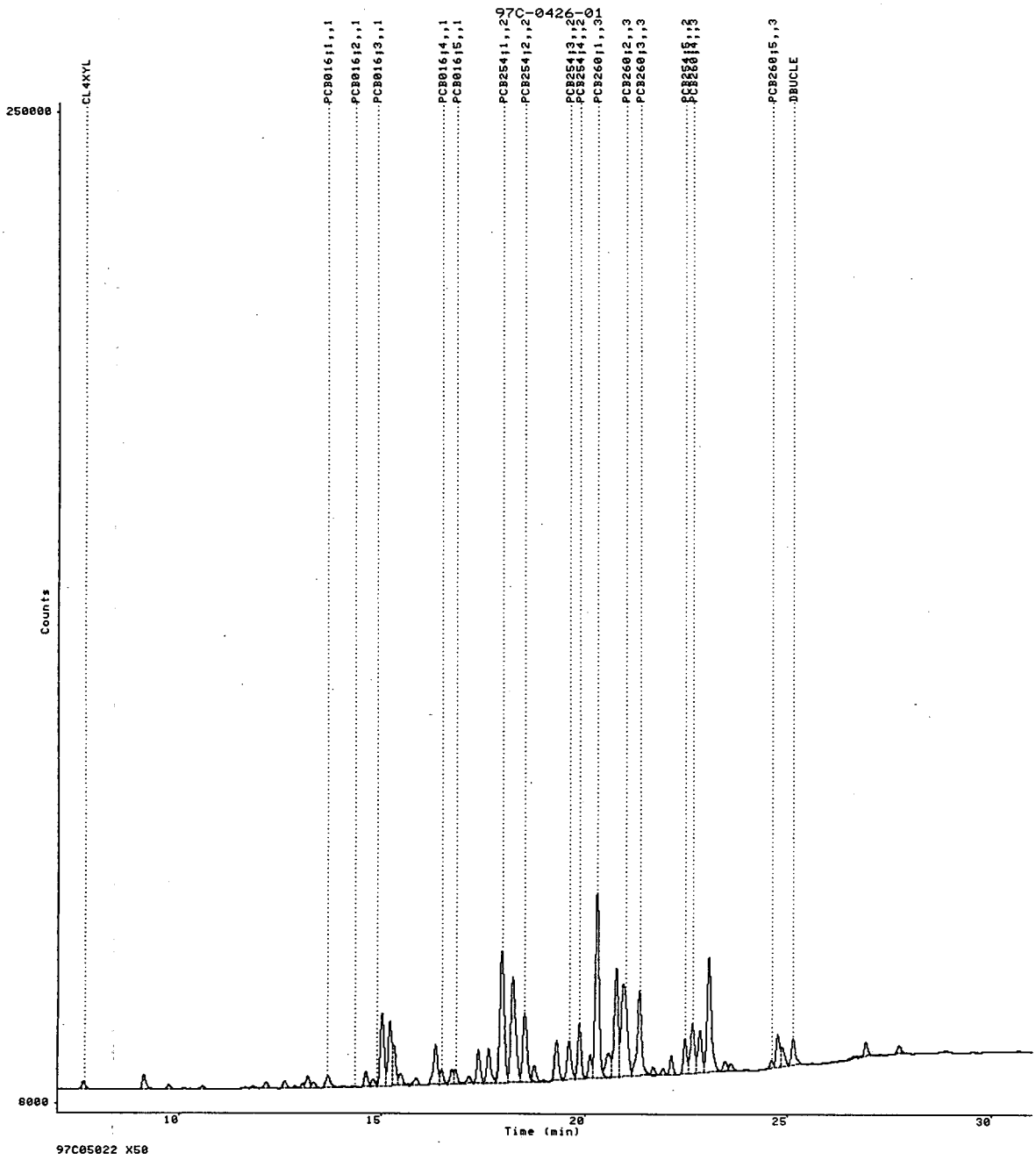
Date: 18-NOV-1997 09:00:00.23

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316065	14.60	30.78	0	71429	1
5997316073	14.62	30.78	0	92857	1

PCB 1254 match



Data file: DISK:[TAYLORC]5997316065.RAW;1
Report: 1197250793
Acquired: 15-NOV-1997 21:35:13
Time range: 7.00-31.00



Date.....17-NOV-1997 17:53:18.65 User: TAYLORC
Report number.....1197250794
Raw file.....DISK:[TAYLORC]5997316066.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....15-NOV-1997 22:12:36
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05024 X50
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....64
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	7.652	1.17	0.3885 -	1492			BB	
	9.145			823			BB	
	9.759			576			BB	
	10.134			126			BB	
	10.584			214			BB	
	11.842			164			BB	
	12.159			511			BB	
	12.617			636			BV	

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	12.880				326	VB	
	13.061				337	BV	
	13.186				829	VV	
	13.328				465	VB	
PCB016;1	13.679	-0.79	0.6182	-	848	BB	1
	14.059				214	BB	
PCB016;2	14.320	1.30	0.1513	-	124	BB	1
	14.615				1536	BV	
PCB016;3	14.785	6.39	2.514		757	VV	1
	15.009				8168	VV	
	15.199				6595	VV	
	15.294				4101	VE	
	15.483				506	EV	
	15.854				750	VB	
	16.326				4159	BV	
PCB016;4	16.476	0.05	7.525		1487	VV	1
	16.735				1333	VV	
PCB016;5	16.814	1.10	4.581		1293	VB	1
	17.148				565	BB	
	17.385				3300	BV	
	17.633				3201	VV	
PCB254;1	17.953	0.39	18.55		17587	VV	2
	18.222				14034	VV	
PCB254;2	18.517	-0.34	22.58		9331	VE	2
	18.756				1553	EV	
	18.990				165	VB	
	19.299				4954	BV	
PCB254;3	19.607	0.33	12.78		5021	VV	2
PCB254;4	19.861	0.22	10.87		7287	VV	2
	20.129				3137	VV	
PCB260;1	20.295	-0.02	40.42		23614	VE	3
	20.581				3082	EV	
	20.771				12931	VV	
PCB260;2	20.990	1.34	11.16		10310	VV	3
PCB260;3	21.339	1.16	10.78		11067	VE	3
	21.678				1068	EV	
	21.922				771	EV	
	22.128				2334	VB	
PCB254;5	22.461	-0.25	9.267		3768	BV	2
PCB260;4	22.648	0.46	10.96		6507	VV	3
	22.835				4931	VV	
	23.054				14171	VE	
	23.453				1031	EV	
	23.598				865	EB	
	23.974				250	BB	
PCB260;5	24.598	0.40	2.104		956	BV	3
	24.748				3985	VV	
	24.849				2156	VV	
DBUCLE	25.121	0.47	1.494	-	3153	VB	
	25.604				100	BB	
	26.671				266	BV	
	26.767				99	VB	
	26.915				1582	BB	
	27.729				1130	BB	
	28.877				149	BB	
CL10BP	32.532	3.01			1663	BB	

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GROUP REPORT

Group	UG/SAMPLE
1	15.39
2	74.06
3	75.41

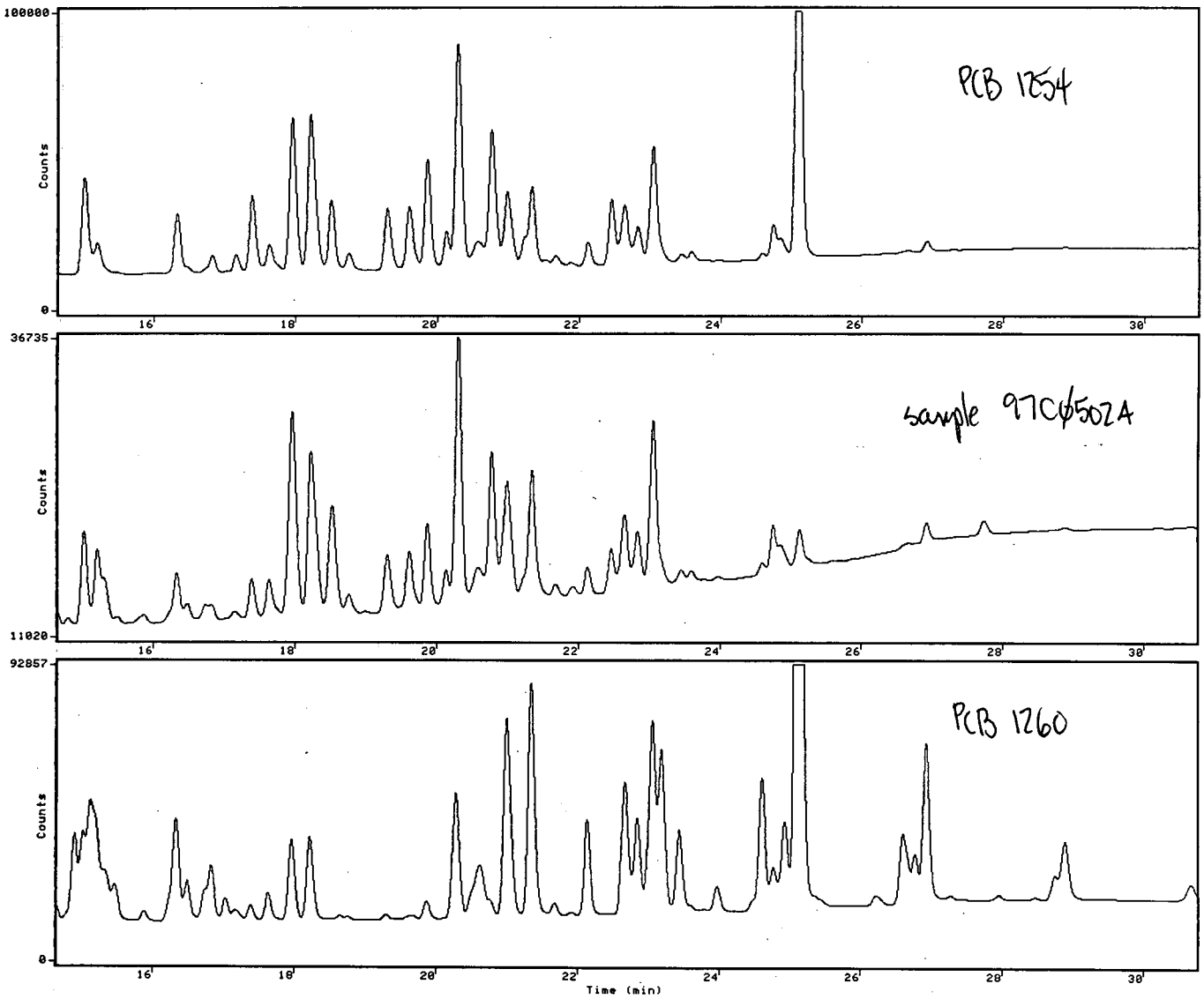
ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

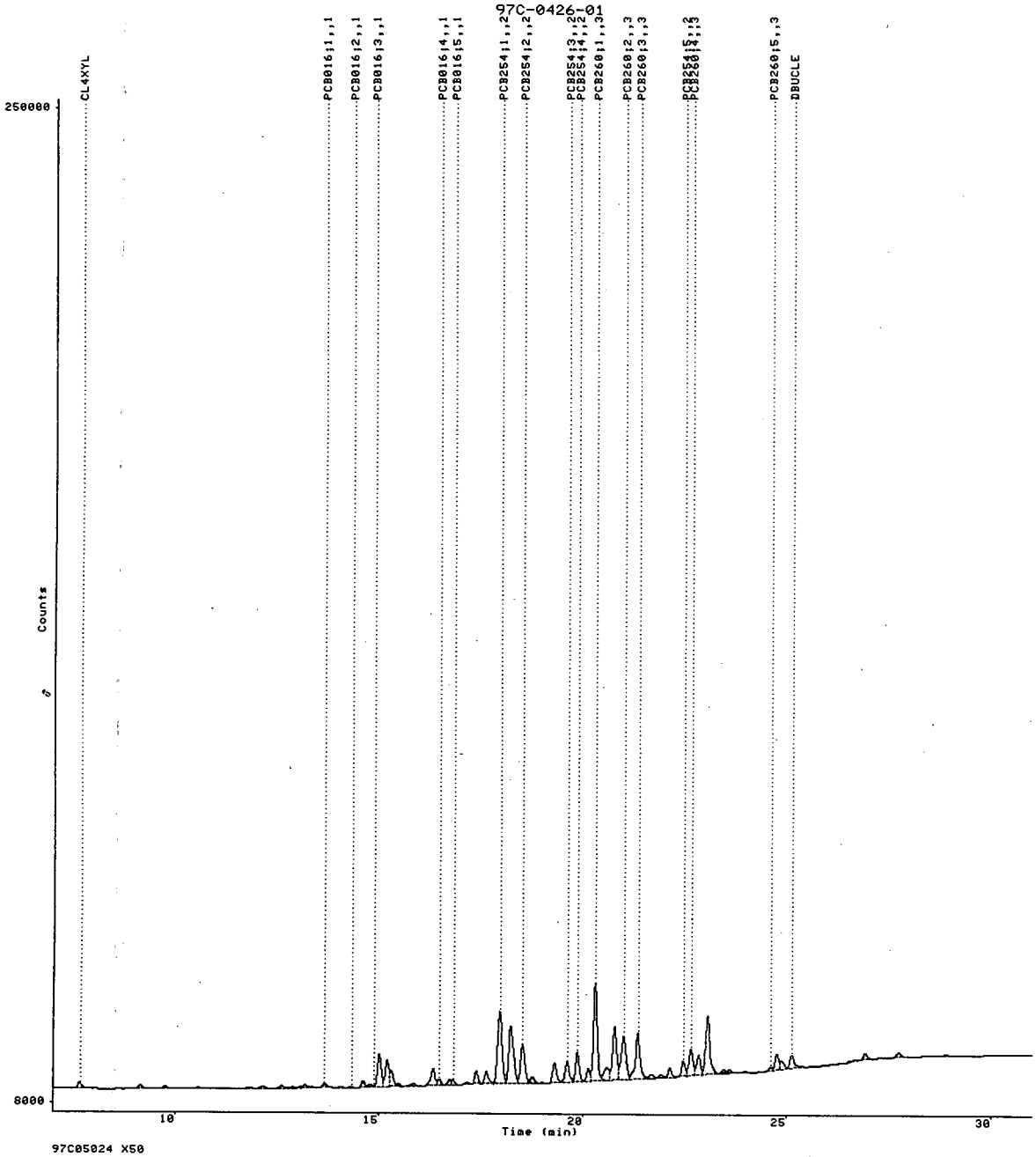
Date: 18-NOV-1997 09:02:36.46

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316066	14.62	30.78	11020	36735	1
5997316073	14.62	30.78	0	92857	1

PCB 1254 match



Data file: DISK:[TAYLORC]5997316066.RAW;1
Report: 1197250794
Acquired: 15-NOV-1997 22:12:36
Time range: 7.00-31.00



0426

Date.....17-NOV-1997 17:53:31.29 User: TAYLORC
Report number.....1197250795
Raw file.....DISK:[TAYLORC]5997316067.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....15-NOV-1997 22:49:57
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05025 X50
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....67
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	7.666	0.39	0.3556 -	1361		BB	
	9.163			933		BB	
	9.768			1046		BB	
	10.142			161		BB	
	10.592			395		BB	
	11.846			84		BB	
	12.163			792		BB	
	12.635			419		BV	

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	12.883			658	VB	
	13.187			1077	BV	
	13.338			657	VB	
PCB016;1	13.683	-1.02	1.051 -	1397	BV	1
	14.076			363	VV	
PCB016;2	14.318	1.46	0.4262 -	271	VB	1
	14.618			1612	BV	
PCB016;3	14.790	6.11	2.480	745	VV	1
	15.011			9157	VV	
	15.202			8666	VE	
	15.490			741	EV	
	15.838			1200	EB	
	16.326			3788	BV	
PCB016;4	16.470	0.39	7.471	1476	VV	1
	16.735			1352	VV	
PCB016;5	16.810	1.33	4.350	1226	VB	1
	17.148			954	BV	
	17.386			4058	VV	
	17.634			3906	VV	
PCB254;1	17.955	0.28	32.73	30179	VV	2
	18.224			22987	VV	
PCB254;2	18.523	-0.70	40.56	16383	VE	2
	18.757			1986	EV	
	18.987			483	VB	
	19.299			7914	BV	
PCB254;3	19.607	0.38	18.09	7039	VV	2
PCB254;4	19.862	0.19	17.83	11848	VV	2
	20.130			5277	VV	
PCB260;1	20.296	-0.04	63.26	37489	VE	3
	20.583			5122	EV	
	20.770			19031	VV	
PCB260;2	20.991	1.25	18.32	16952	VV	3
PCB260;3	21.340	1.10	17.82	18518	VE	3
	21.677			1788	EV	
	21.926			2253	VV	
	22.128			4041	VB	
PCB254;5	22.461	-0.22	13.75	5619	BV	2
PCB260;4	22.649	0.39	18.36	10944	VV	3
	22.836			8517	VV	
	23.054			23736	VE	
	23.453			2077	EV	
	23.601			1997	EV	
	23.770			542	VV	
	23.955			574	VB	
PCB260;5	24.598	0.40	3.442	1704	BV	3
	24.747			6702	VV	
	24.841			3520	VV	
DBUCLE	25.121	0.47	2.171	5433	VE	
	25.381			315	EV	
	25.584			416	EB	
	25.877			122	BB	
	26.658			414	BV	
	26.765			142	VB	
	26.914			2554	BB	
	27.729			963	BB	
	28.740			108	BV	
	28.873			335	VB	
	30.672			92	BB	
CL10BP	32.531	3.04		1522	BB	

GROUP REPORT

Group	UG/SAMPLE
1	15.78
2	123.0
3	121.2

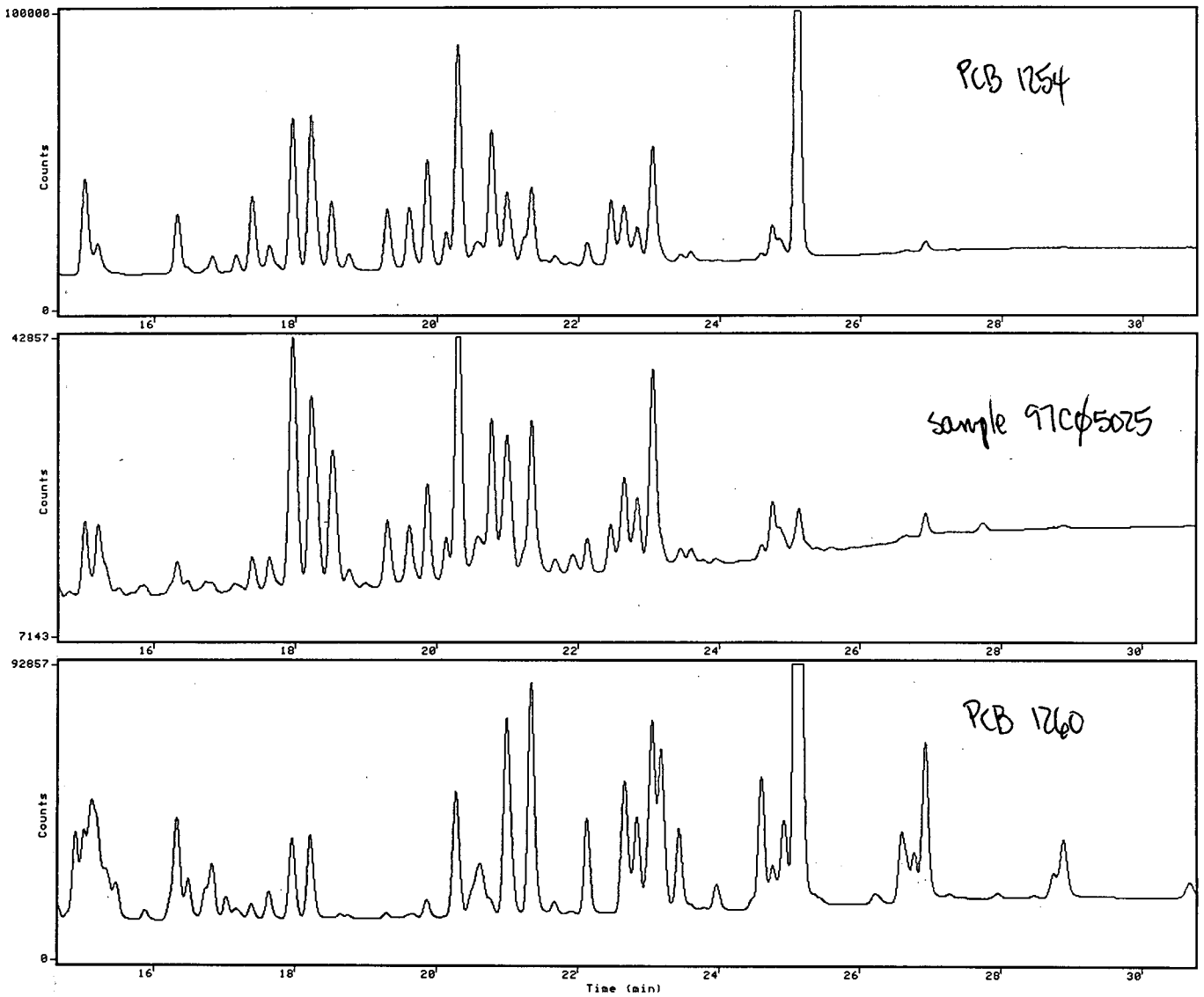
ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

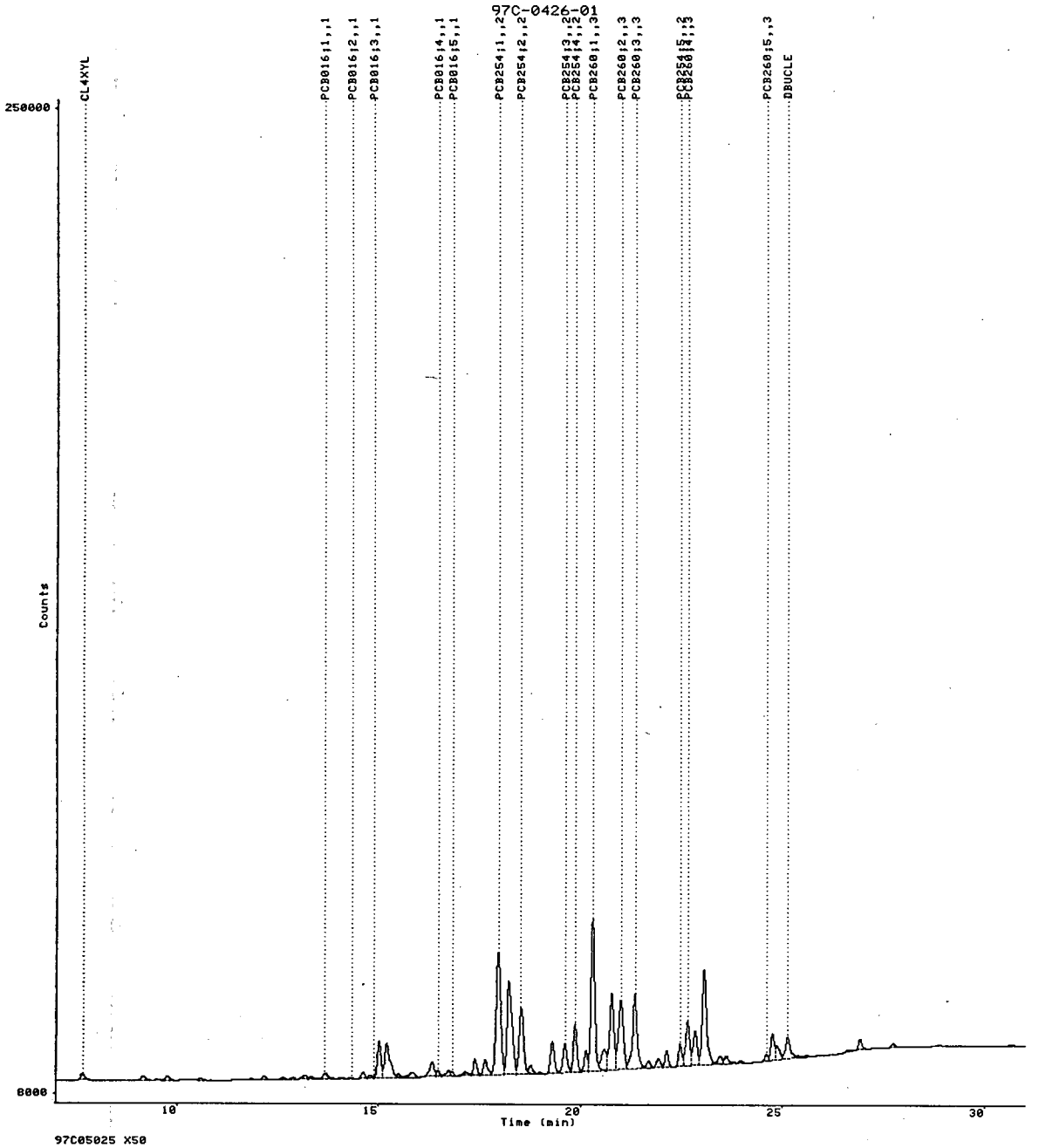
Date: 18-NOV-1997 09:04:15.90

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316067	14.62	30.78	7143	42857	1
5997316073	14.62	30.78	0	92857	1

PCB 1254 match



Data file: DISK:[TAYLORC]5997316067.RAW;1
Report: 1197250795
Acquired: 15-NOV-1997 22:49:57
Time range: 7.00-31.00



0431

Date.....17-NOV-1997 17:53:44.48 User: TAYLORC
Report number.....1197250796
Raw file.....DISK:[TAYLORC]5997316068.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....15-NOV-1997 23:27:23
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05026 X2000
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min	Delay time.....7.000 min
Area reject.....100 count(s)	No. peaks found.....42
Noise threshold.....10.0 microvolts	Area threshold.....120
Start peak width....6.00 sec(s)	Area/Pk.Ht.....H
Min. window.....8.00 sec	% window.....0.00
Analysis type.....EXTERNAL STANDARD	A/D range.....1.0 volt(s)
Sample rack.....25	
Sample vial.....25	
Analysis fit.....Quadratic	Origin treatment....Ignore
Report units.....UG/SAMPLE	
Sample amount.....1.00000	
Volume injected.....1.00000	Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
7.67	CL4XYL			
13.67	PCB016;1	1		
14.34	PCB016;2	1		
16.48	PCB016;4	1		

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	10.588			246		BB	
	13.114			122		BB	
	14.620			81		BB	
PCB016;3	15.012	-7.19	24.12	8816		BV	1
	15.198			3394		VB	
	16.329			3414		BB	
PCB016;5	16.822	0.58	4.208	1185		BB	1
	17.166			883		BV	
	17.390			6927		VV	
	17.636			2871		VV	
PCB254;1	17.957	0.15	20.02	18916		VV	2
	18.221			21689		VV	
PCB254;2	18.510	0.04	27.66	11360		VE	2
	18.759			1303		EB	
	19.301			6489		BV	
PCB254;3	19.610	0.21	19.95	7736		VV	2
PCB254;4	19.864	0.04	18.14	12046		VV	2
	20.132			4675		VV	
PCB260;1	20.299	-0.23	51.65	30394		VE	3
	20.581			3802		EV	
	20.778			18873		VV	
PCB260;2	20.996	0.98	13.31	12304		VV	3
PCB260;3	21.341	1.02	13.40	13838		VE	3
	21.676			1409		EV	
	21.891			452		EB	
	22.132			3108		BB	
PCB254;5	22.468	-0.64	15.34	6267		BV	2
PCB260;4	22.649	0.41	14.74	8767		VV	3
	22.837			5510		VV	
	23.058			18311		VE	
	23.460			1082		EV	
	23.601			1227		EB	
	23.980			214		BB	
PCB260;5	24.600	0.33	2.071	938		BV	3
	24.752			5021		VV	
	24.855			2840		VV	
DBUCLE	25.130	-0.08	1.314 -	2548		VB	
	25.599			99		BB	
	26.673			153		BB	
	26.918			1452		BB	
	28.883			68		BB	
CL10BP	32.533	2.92		1198		BB	

GROUP REPORT

Group	UG/SAMPLE
1	28.33
2	101.1
3	95.17

ANALYSIS NOTES

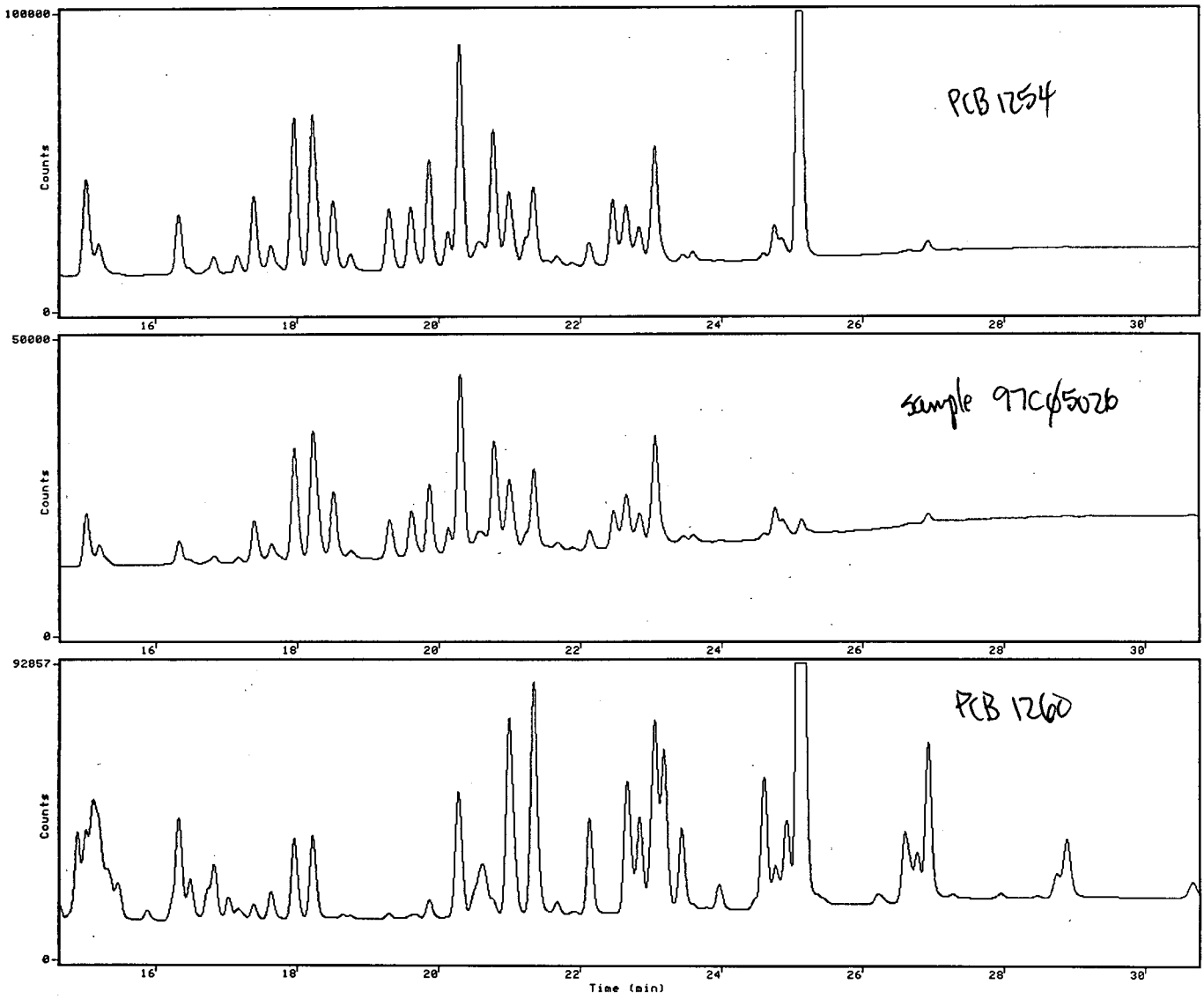
1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)

5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

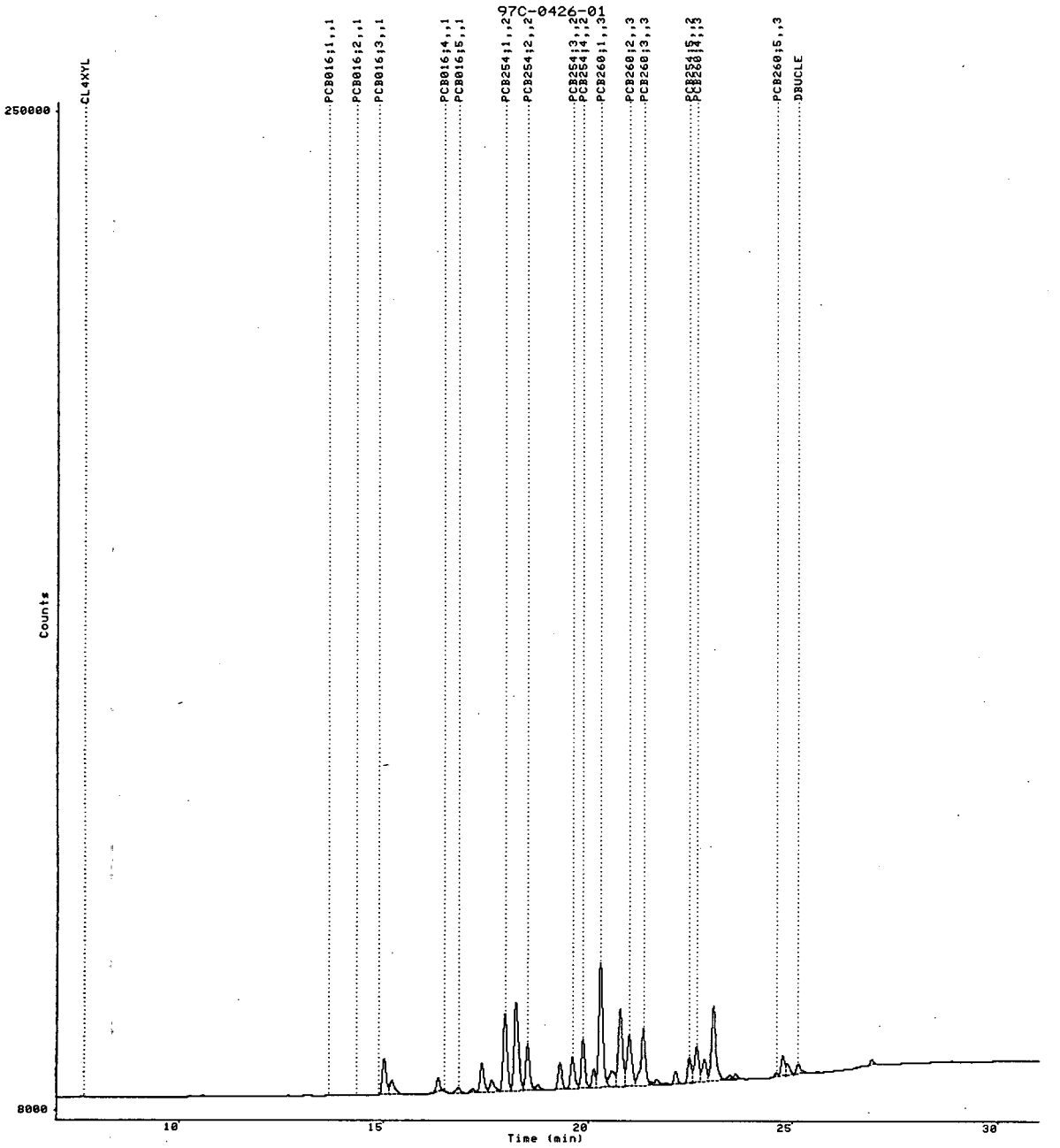
Date: 18-NOV-1997 09:05:37.17

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316068	14.62	30.78	0	50000	1
5997316073	14.62	30.78	0	92857	1

PCB 1254 match



Data file: DISK:[TAYLORC]5997316068.RAW;1
Report: 1197250796
Acquired: 15-NOV-1997 23:27:23
Time range: 7.00-31.00



97C05026 X2000

0436

Date.....17-NOV-1997 17:53:58.19 User: TAYLORC
Report number.....1197250797
Raw file.....DISK:[TAYLORC]5997316069.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....16-NOV-1997 00:04:44
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05027 X200
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....	34.001 min	Delay time.....	7.000 min
Area reject.....	100 count(s)	No. peaks found.....	59
Noise threshold.....	10.0 microvolts	Area threshold.....	120
Start peak width....	6.00 sec(s)	Area/Pk.Ht.....	H
Min. window.....	8.00 sec	% window.....	0.00
Analysis type.....	EXTERNAL STANDARD	A/D range.....	1.0 volt(s)
Sample rack.....	25		
Sample vial.....	25		
Analysis fit.....	Quadratic	Origin treatment....	Ignore
Report units.....	UG/SAMPLE		
Sample amount.....	1.00000		
Volume injected.....	1.00000	Conversion factor...	3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
14.34	PCB016;2	1		

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

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Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group

CL4XYL	7.651	1.23	0.1198	-	421	BB	
	9.146				289	BB	
	9.762				4801	BB	
	10.586				294	BB	
	12.160				474	BB	
	12.644				215	BB	
	12.883				909	BV	
	13.187				740	VV	
	13.333				379	VB	
PCB016;1	13.679	-0.77	0.4040	-	576	BB	1
	14.093				219	BB	
	14.617				1131	BE	
PCB016;3	14.802	5.39	1.098	-	255	EV	1
	15.011				11167	VV	
	15.202				8674	VE	
	15.502				849	EV	
	15.668				296	EV	
	15.848				1108	VB	
	16.327				3363	BV	
PCB016;4	16.469	0.47	6.205		1222	VV	1
PCB016;5	16.825	0.45	7.109		2031	VV	1
	17.128				1007	VV	
	17.389				4412	VV	
	17.639				3780	VV	
PCB254;1	17.954	0.34	32.44		29932	VV	2
	18.229				17985	VV	
PCB254;2	18.536	-1.49	36.88		14969	VE	2
	18.760				2082	EV	
	18.986				422	VB	
	19.302				6370	BV	
PCB254;3	19.611	0.12	15.52		6067	VV	2
PCB254;4	19.864	0.03	13.44		8984	VV	2
	20.131				4004	VV	
PCB260;1	20.299	-0.25	58.59		34625	VE	3
	20.586				4799	EV	
	20.776				15191	VV	
PCB260;2	20.999	0.79	15.48		14319	VV	3
PCB260;3	21.342	0.96	13.92		14388	VE	3
	21.678				1611	EB	
	21.920				600	BV	
	22.132				2942	VB	
PCB254;5	22.466	-0.56	8.962		3641	BV	2
PCB260;4	22.652	0.26	15.29		9102	VV	3
	22.839				7221	VV	
	23.058				18046	VE	
	23.456				1531	EV	
	23.601				1293	EV	
	23.774				445	VV	
	23.961				442	VB	
PCB260;5	24.601	0.25	2.602		1234	BV	3
	24.752				4965	VV	
	24.856				2593	VV	
DBUCLE	25.128	0.06	1.629		3608	VB	
	25.595				227	BB	
	25.883				60	BB	
	26.671				391	BV	
	26.917				2049	VB	
	28.881				204	BB	
CL10BP	32.535	2.79			1448	BB	

GROUP REPORT

Group	UG/SAMPLE
1	14.82
2	107.2
3	105.9

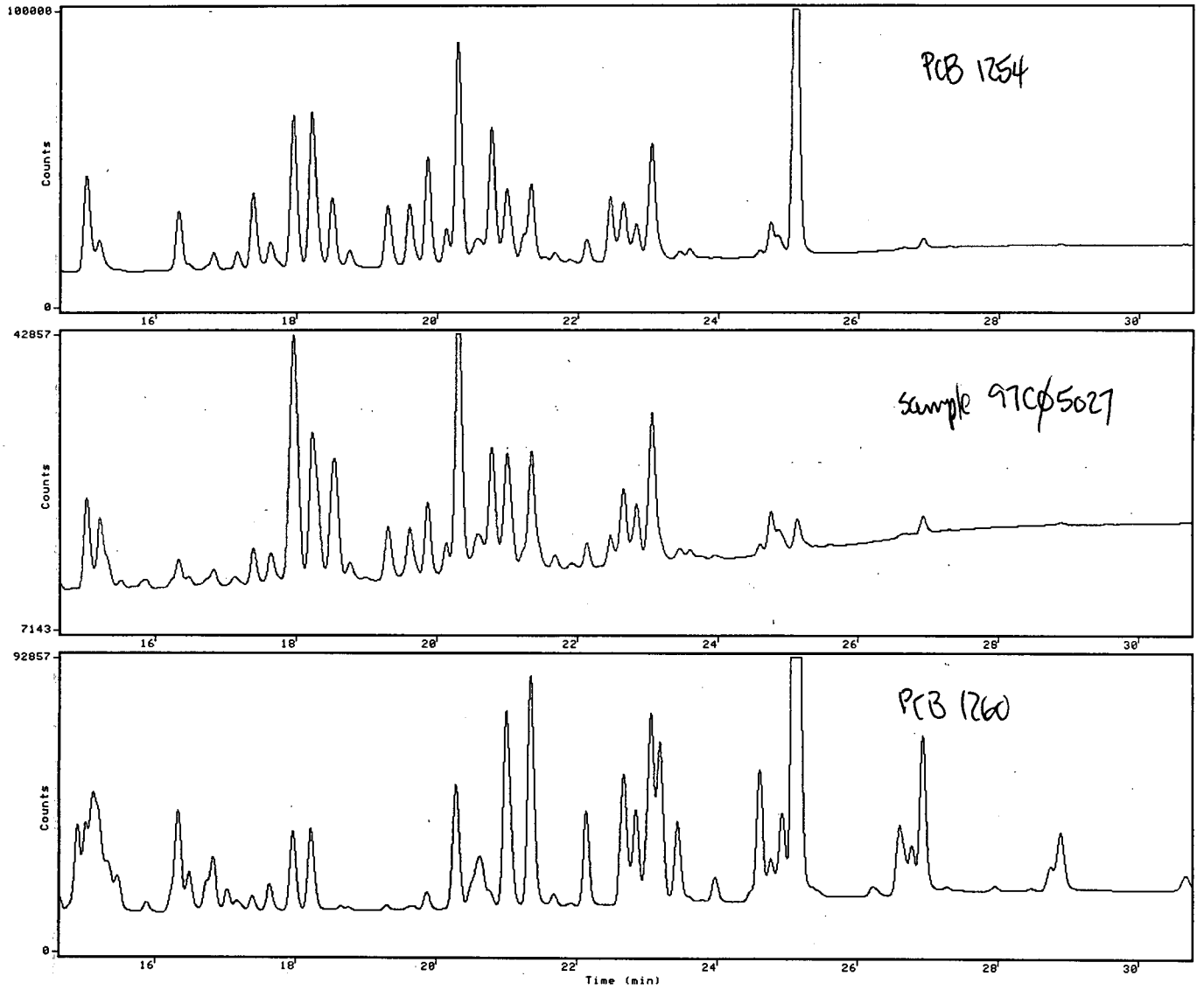
ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Date: 18-NOV-1997 09:07:53.25

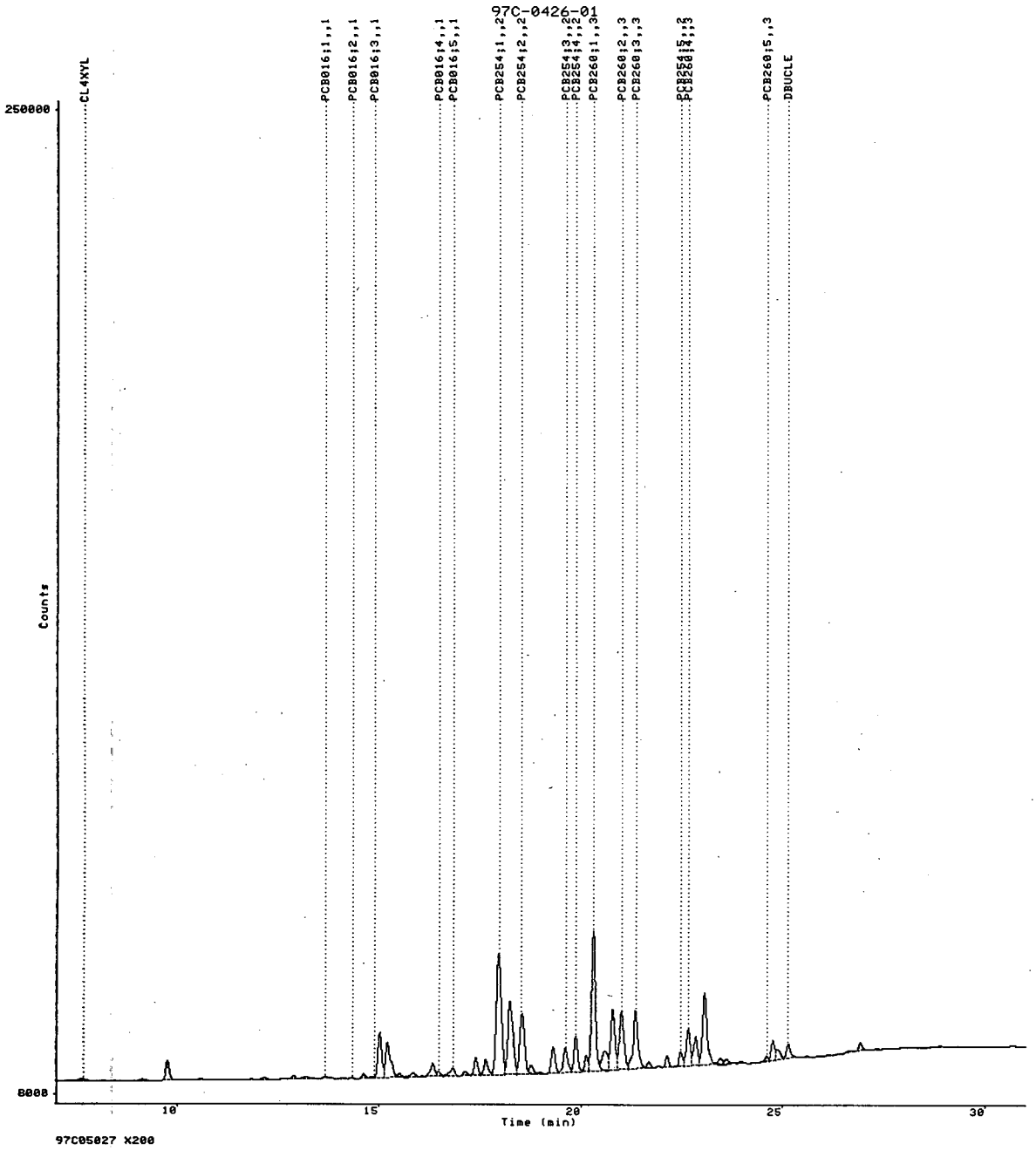
Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316069	14.62	30.78	7143	42857	1
5997316073	14.62	30.78	0	92857	1

PCB 1254 match



0440

Data file: DISK:[TAYLORC]5997316069.RAW;1
Report: 1197250797
Acquired: 16-NOV-1997 00:04:44
Time range: 7.00-31.00



0441

Date.....17-NOV-1997 17:54:11.12 User: TAYLORC
Report number.....1197250798
Raw file.....DISK:[TAYLORC]5997316070.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....16-NOV-1997 00:42:06
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05028 X200
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....57
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
14.34	PCB016;2	1		

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

0442

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group

CL4XYL	7.646	1.57	0.1627	-	592	BB	
	9.141				673	BB	
	9.753				386	BB	
	10.579				117	BB	
	12.157				214	BB	
	12.628				119	BB	
	12.878				202	BB	
	13.185				365	BV	
	13.326				207	VB	
PCB016;1	13.679	-0.79	0.2536	-	385	BB	1
	14.068				90	BB	
	14.614				629	BV	
PCB016;3	14.786	6.39	1.197	-	290	VV	1
	15.009				3500	VV	
	15.199				3117	VE	
	15.484				240	EB	
	15.842				344	BB	
	16.324				1394	BV	
PCB016;4	16.470	0.40	2.395		462	VB	1
PCB016;5	16.732	5.97	0.6097	-	149	BB	1
	17.150				261	BV	
	17.387				1370	VV	
	17.635				1353	VV	
PCB254;1	17.955	0.28	11.01		10636	VV	2
	18.223				8504	VV	
PCB254;2	18.519	-0.49	13.68		5697	VE	2
	18.759				715	EB	
	18.991				117	BB	
	19.300				2847	BV	
PCB254;3	19.608	0.30	6.574		2609	VV	2
PCB254;4	19.864	0.08	6.025		4052	VV	2
	20.132				1759	VV	
PCB260;1	20.297	-0.10	22.86		13180	VE	3
	20.585				1835	EV	
	20.774				6905	VV	
PCB260;2	20.992	1.18	6.872		6332	VV	3
PCB260;3	21.341	1.05	6.797		6881	VE	3
	21.679				622	EV	
	21.928				728	VV	
	22.130				1427	VB	
PCB254;5	22.465	-0.46	5.001		1977	BV	2
PCB260;4	22.651	0.30	6.698		3971	VV	3
	22.837				3064	VV	
	23.057				8664	VE	
	23.456				621	EV	
	23.603				547	EB	
	23.980				164	BB	
PCB260;5	24.601	0.22	1.465	-	600	BV	3
	24.751				2435	VV	
	24.854				1289	VV	
DBUCLE	25.124	0.30	1.149	-	1991	VB	
	25.603				83	BB	
	26.619				207	BV	
	26.918				1056	VB	
	27.732				620	BB	
	28.879				122	BB	
CL10BP	32.537	2.71	65.68	-	402	BB	

GROUP REPORT

Group	UG/SAMPLE
1	4.456
2	42.30
3	44.69

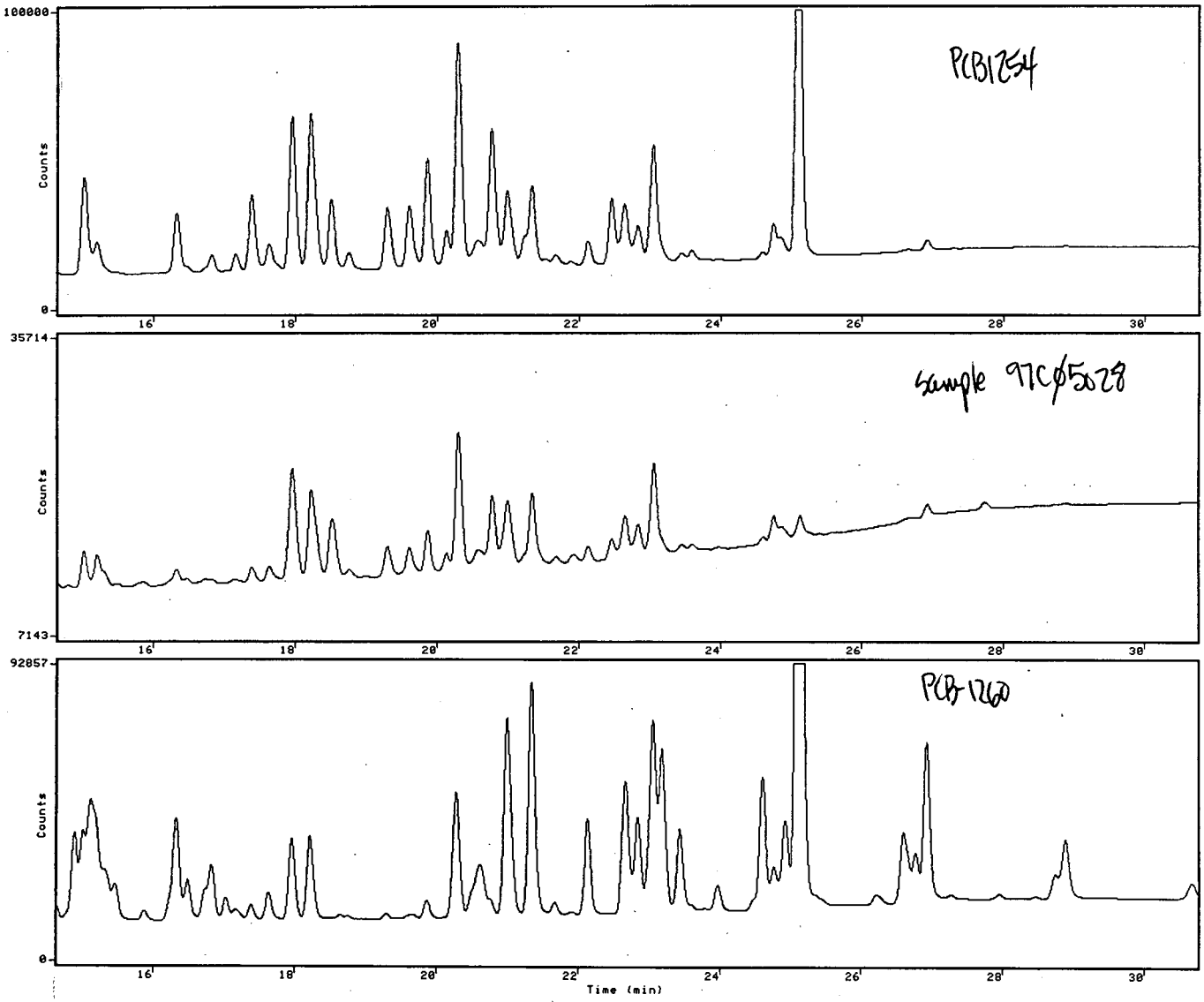
ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Warning, Insufficient data for requested calculation fit. (153)
3: WARNING: Peak windows overlap. Check peak identification. (245)
4: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

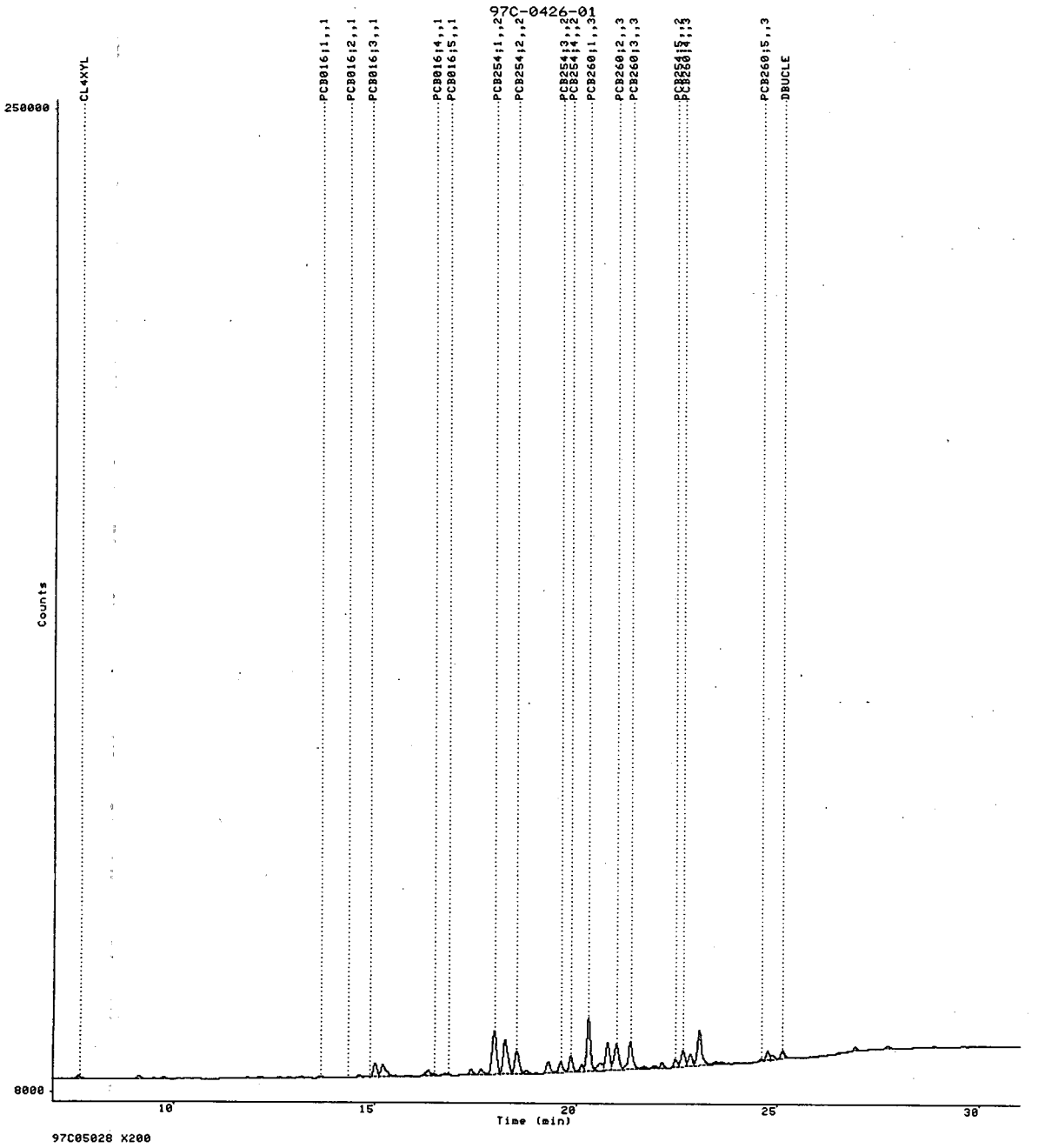
Date: 18-NOV-1997 09:10:05.32

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316070	14.62	30.78	7143	35714	1
5997316073	14.62	30.78	0	92857	1

PCB 1254 match



Data file: DISK:[TAYLORC]5997316070.RAW;1
Report: 1197250798
Acquired: 16-NOV-1997 00:42:06
Time range: 7.00-31.00



0446

Date.....17-NOV-1997 17:54:24.19 User: TAYLORC
Report number.....1197250799
Raw file.....DISK:[TAYLORC]5997316071.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....16-NOV-1997 01:19:26
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05029 X10
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....66
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	7.654	1.09	2.177	8618		BB	
	9.152			9774		BE	
	9.754			390		EB	
	10.136			167		BB	
	10.289			111		BB	
	10.586			954		BB	
	11.166			78		BB	
	11.688			154		BB	

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	12.163				1890	BB	
	12.620				1284	BB	
	12.881				244	BB	
	13.053				861	BV	
	13.190				4028	VV	
	13.328				2958	VV	
PCB016;1	13.682	-0.98	3.106		4007	VE	1
	14.045				325	EB	
PCB016;2	14.335	0.39	0.5459	-	335	BV	1
	14.466				181	VV	
	14.617				2290	VV	
PCB016;3	14.787	6.27	4.388		1426	VV	1
	15.010				10858	VV	
	15.201				10825	VV	
	15.299				7500	VV	
	15.462				15472	VE	
	15.863				1406	EB	
	16.328				6161	BV	
PCB016;4	16.482	-0.29	12.63		2519	VV	1
	16.736				2725	VV	
PCB016;5	16.815	0.99	8.439		2422	VB	1
	17.017				201	BV	
	17.155				1255	VB	
	17.385				4993	BV	
	17.631				5440	VV	
PCB254;1	17.954	0.34	16.25		15481	VV	2
	18.226				11348	VV	
PCB254;2	18.514	-0.18	18.20		7553	VV	2
	18.757				2558	VE	
	18.998				99	EB	
	19.301				4799	BV	
PCB254;3	19.610	0.17	11.52		4537	VV	2
PCB254;4	19.862	0.17	9.048		6075	VV	2
	20.129				3339	VV	
PCB260;1	20.296	-0.04	35.57		20716	VE	3
	20.577				3612	EV	
	20.772				12448	VV	
PCB260;2	20.922	5.37	145.7	+	136205	VE	3
PCB260;3	21.340	1.09	8.826		9013	EV	3
	21.677				973	VV	
	21.922				727	VV	
	22.130				1781	VB	
PCB254;5	22.461	-0.24	8.208		3326	BV	2
PCB260;4	22.649	0.40	8.401		4984	VV	3
	22.836				4211	VV	
	23.054				10916	VV	
	23.455				962	VV	
	23.595				687	VB	
	23.989				110	BB	
PCB260;5	24.599	0.39	1.761		765	BV	3
	24.749				3034	VV	
	24.852				1908	VV	
DBUCLE	25.110	1.15	2.117		5249	VB	
	26.664				279	BV	
	26.915				1478	VB	
	27.732				385	BB	
	28.877				155	BB	
CL10BP	32.533	2.93			3399	BB	

GROUP REPORT

Group	UG/SAMPLE
1	29.11
2	63.23
3	200.2

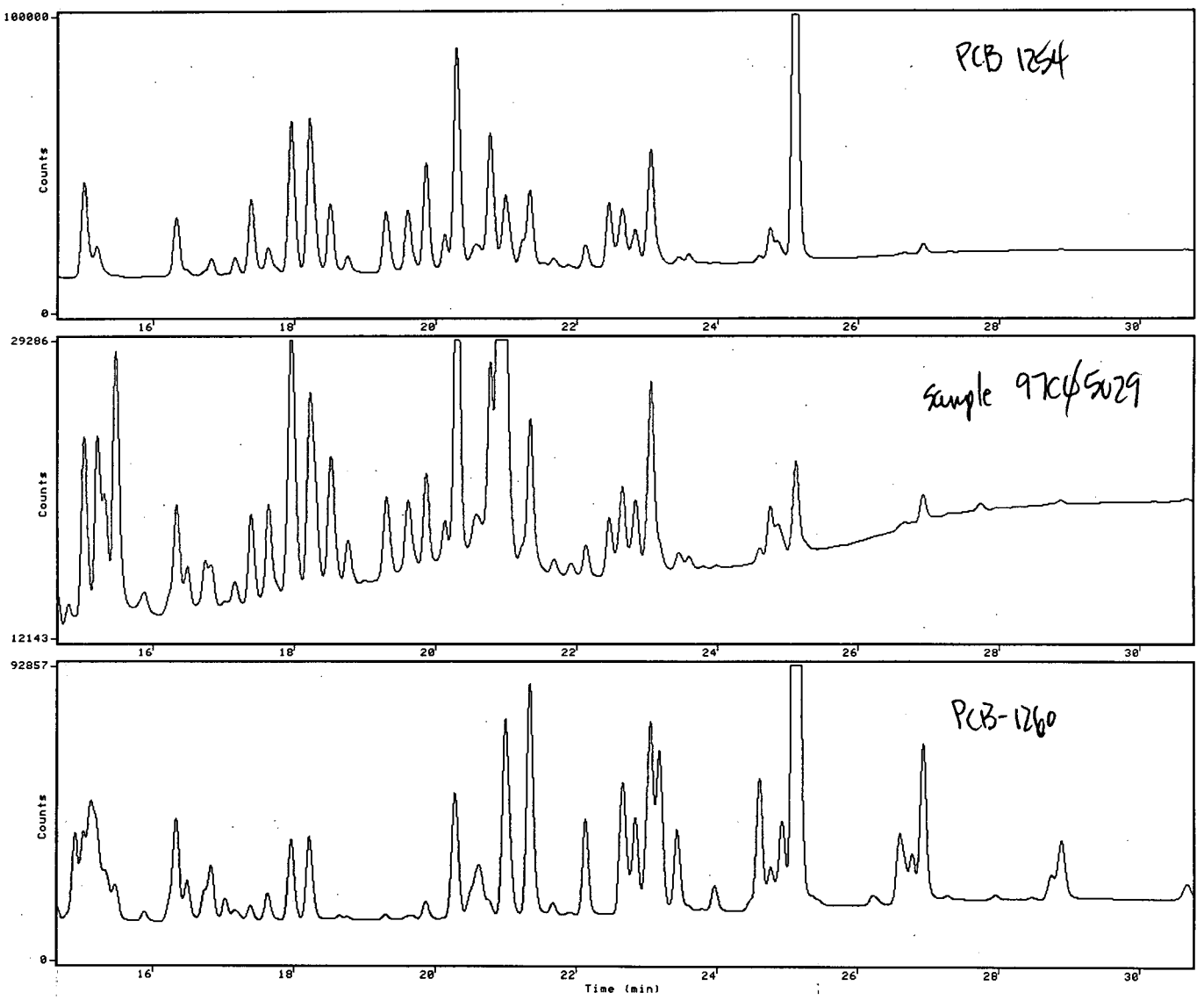
ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

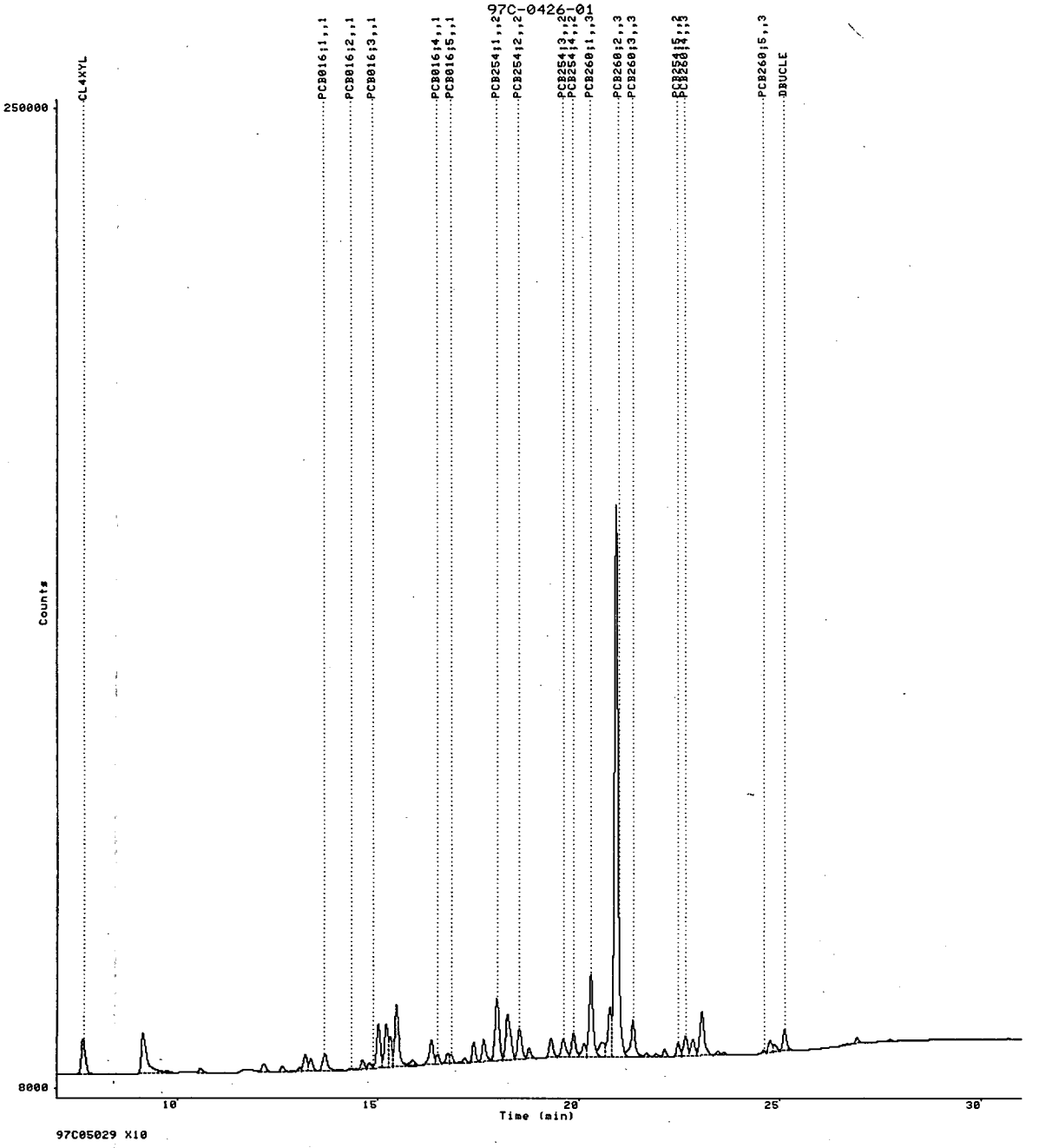
Date: 18-NOV-1997 09:12:08.68

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316071	14.62	30.78	12143	29286	1
5997316073	14.62	30.78	0	92857	1

PCB-1254 match



Data file: DISK:[TAYLORC]5997316071.RAW;1
Report: 1197250799
Acquired: 16-NOV-1997 01:19:26
Time range: 7.00-31.00



0451

Date.....17-NOV-1997 17:54:37.02 User: TAYLORC
Report number.....1197250800
Raw file.....DISK:[TAYLORC]5997316072.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....16-NOV-1997 01:56:49
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05030 X50
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
  length.....30 M
  diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....59
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	7.664	0.46	0.3065 -	1165		BB	
	9.167			12424		BB	
	10.591			504		BB	
	11.586			270		BB	
	11.846			109		BB	
	12.167			1549		BB	
	12.623			916		BV	
	12.884			345		VB	

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	13.056				685	BV	
	13.193				2859	VV	
	13.332				1995	VV	
PCB016;1	13.685	-1.15	1.871		2439	VV	1
	14.018				643	VB	
PCB016;2	14.348	-0.38	0.3159	-	212	BB	1
	14.619				1802	BV	
PCB016;3	14.789	6.20	3.779		1208	VV	1
	15.011				8483	VV	
	15.203				8357	VV	
	15.300				5652	VV	
	15.465				22786	VE	
	15.865				1443	EV	
	16.329				4564	VV	
PCB016;4	16.483	-0.37	9.110		1806	VV	1
	16.735				2100	VV	
PCB016;5	16.815	1.01	5.553		1576	VB	1
	17.150				790	BB	
	17.386				3131	BV	
	17.632				3448	VV	
PCB254;1	17.954	0.34	11.73		11302	VV	2
	18.227				7705	VV	
PCB254;2	18.519	-0.47	12.20		5085	VV	2
	18.758				1646	VB	
	18.996				127	BB	
	19.302				3644	BV	
PCB254;3	19.611	0.11	8.469		3352	VV	2
PCB254;4	19.863	0.15	6.646		4469	VV	2
	20.131				2606	VV	
PCB260;1	20.296	-0.05	24.05		13880	VE	3
	20.581				3012	EV	
	20.771				8492	VV	
PCB260;2	20.924	5.30	190.0	+	178191	VE	3
PCB260;3	21.339	1.15	5.167		5171	EV	3
	21.678				631	VV	
	21.926				702	VV	
	22.130				1017	VB	
PCB254;5	22.462	-0.30	4.977		1967	BV	2
PCB260;4	22.650	0.35	5.053		2994	VV	3
	22.835				2328	VV	
	23.055				5981	VV	
	23.454				502	VV	
	23.597				389	VB	
	23.801				91	BB	
PCB260;5	24.599	0.36	0.9424	-	309	BB	3
	24.750				1490	BV	
	24.853				810	VB	
DBUCLE	25.121	0.47	1.014	-	1539	BB	
	26.912				904	BE	
	27.735				108	EB	
CL10BP	32.535	2.81	92.24		578	BB	

GROUP REPORT

Group	UG/SAMPLE
1	20.63
2	44.03
3	225.2

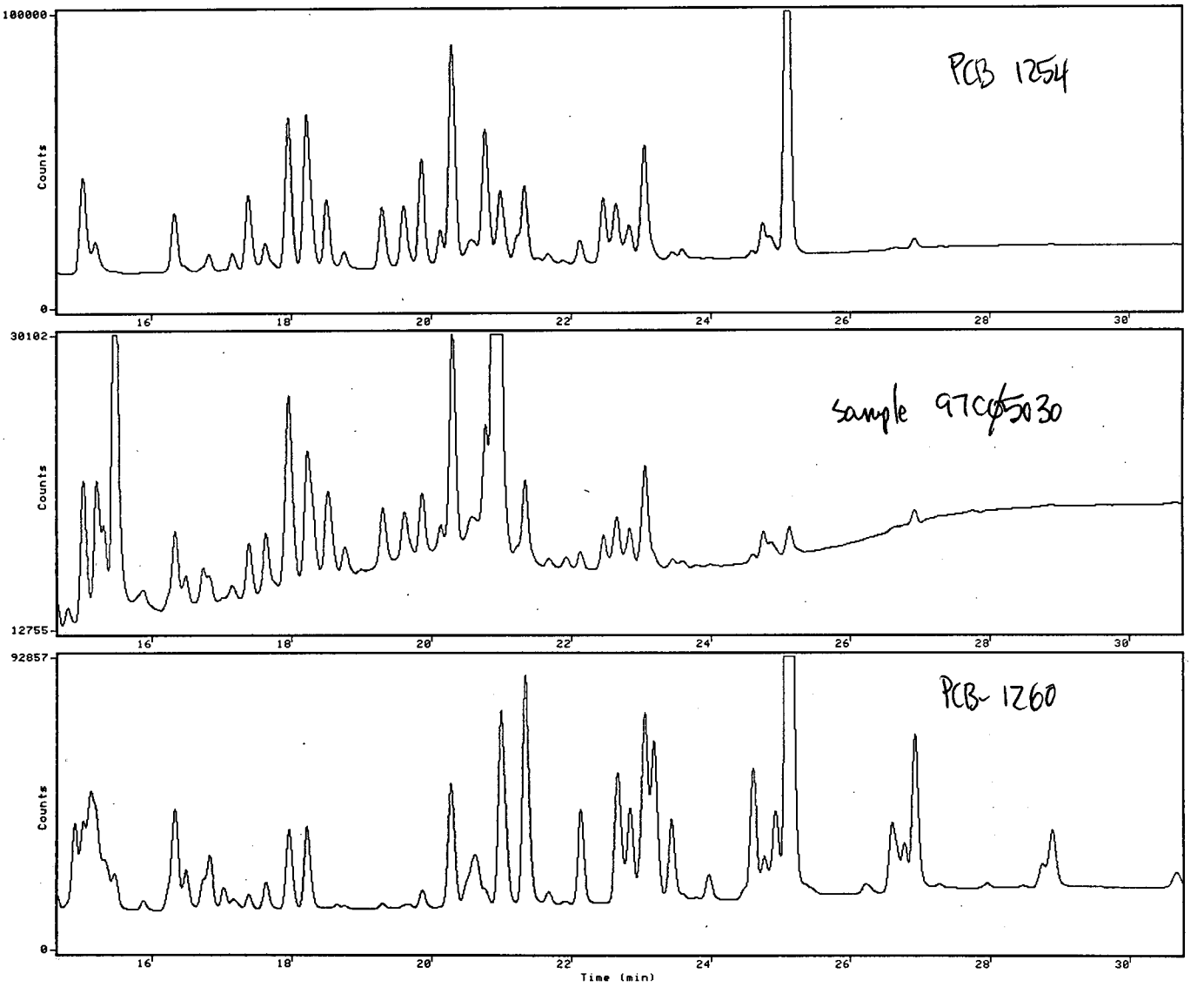
ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Warning, Insufficient data for requested calculation fit. (153)
3: WARNING: Peak windows overlap. Check peak identification. (245)
4: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Date: 18-NOV-1997 09:15:22.75

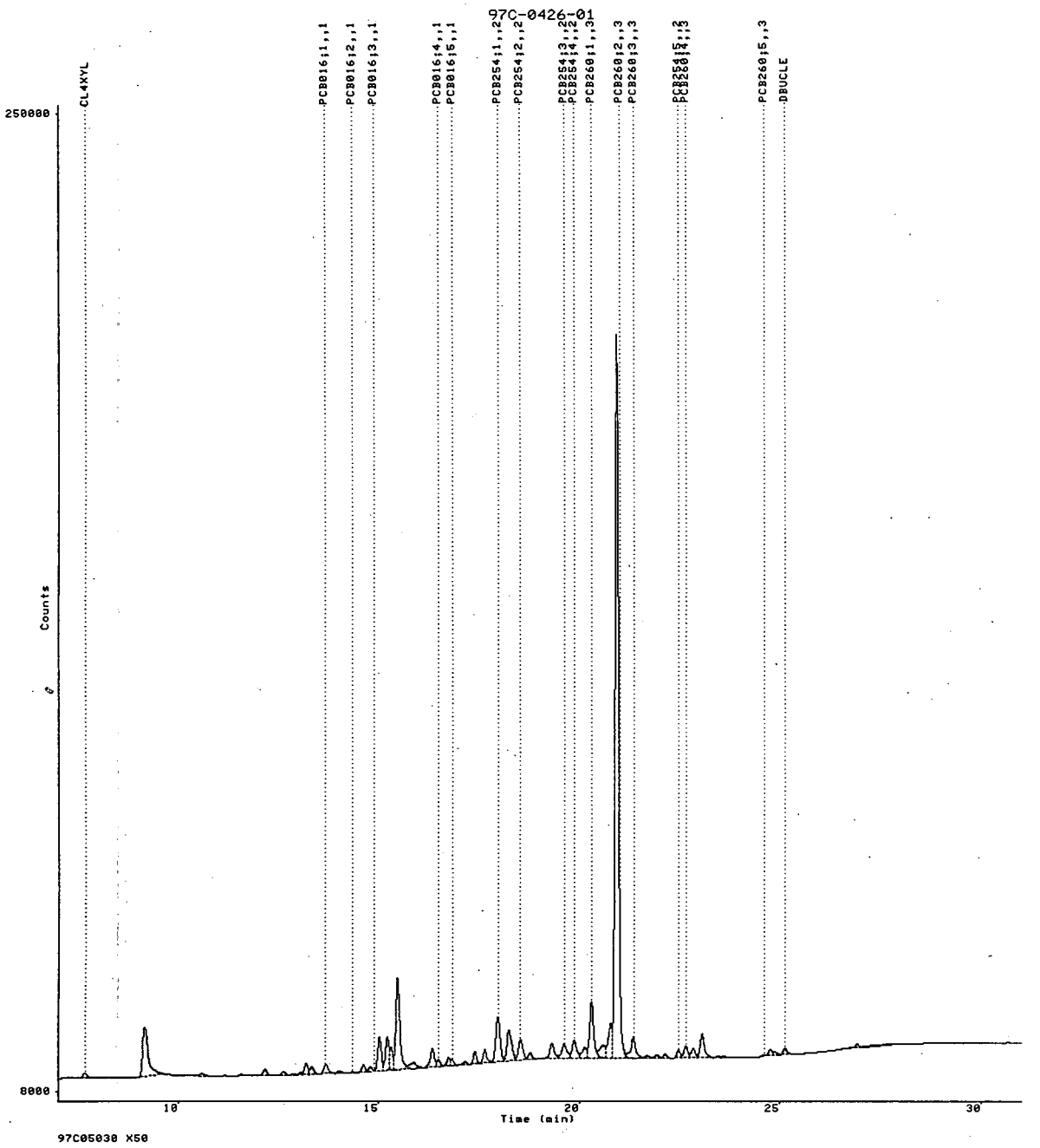
Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316072	14.62	30.78	12755	30102	1
5997316073	14.62	30.78	0	92857	1

PCB-1254 match



0455

Data file: DISK:[TAYLORC]5997316072.RAW;1
Report: 1197250800
Acquired: 16-NOV-1997 01:56:49
Time range: 7.00-31.00



0456

Date.....17-NOV-1997 17:55:03.79 User: TAYLORC
Report number.....1197250802
Raw file.....DISK:[TAYLORC]5997316074.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....16-NOV-1997 03:11:34
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05031 X500
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....46
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
13.67	PCB016;1	1		
14.34	PCB016;2	1		
16.48	PCB016;4	1		

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EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	7.650	1.29	0.05915-	179		BB	
	9.760			414		BB	
	10.587			153		BB	
	12.657			62		BB	
	13.102			77		BB	
	14.619			68		BB	
PCB016;3	15.011	-7.15	9.652	3336		BV	1
	15.193			1761		VB	
	16.327			440		BB	
PCB016;5	16.823	0.56	2.555	707		BB	1
	17.162			293		BV	
	17.391			3469		VV	
	17.638			1779		VV	
PCB254;1	17.956	0.23	13.01	12497		VV	2
	18.223			13364		VV	
PCB254;2	18.514	-0.18	19.67	8151		VE	2
	18.758			817		EB	
	19.304			2172		BV	
PCB254;3	19.611	0.12	10.03	3960		VV	2
PCB254;4	19.864	0.05	10.69	7165		VV	2
	20.133			3286		VV	
PCB260;1	20.299	-0.24	37.80	22049		VE	3
	20.581			2866		EV	
	20.779			12767		VV	
PCB260;2	20.996	0.98	10.48	9676		VV	3
PCB260;3	21.342	0.98	10.52	10795		VE	3
	21.676			966		EV	
	21.904			345		EB	
	22.133			2315		BB	
PCB254;5	22.470	-0.78	9.068	3685		BV	2
PCB260;4	22.650	0.37	10.98	6520		VV	3
	22.839			4355		VV	
	23.058			14207		VE	
	23.459			799		EV	
	23.603			786		EB	
	23.954			372		BB	
PCB260;5	24.601	0.23	1.738	752		BV	3
	24.752			3784		VV	
	24.855			1823		VB	
DBUCLE	25.127	0.09	1.130 -	1930		BB	
	25.602			211		BB	
	25.886			81		BB	
	26.671			129		BB	
	26.918			1263		BB	
	28.882			99		BB	
CL10BP	32.540	2.51	67.37	414		BB	

GROUP REPORT

Group	UG/SAMPLE
1	12.21
2	62.47
3	71.52

0458

ANALYSIS NOTES

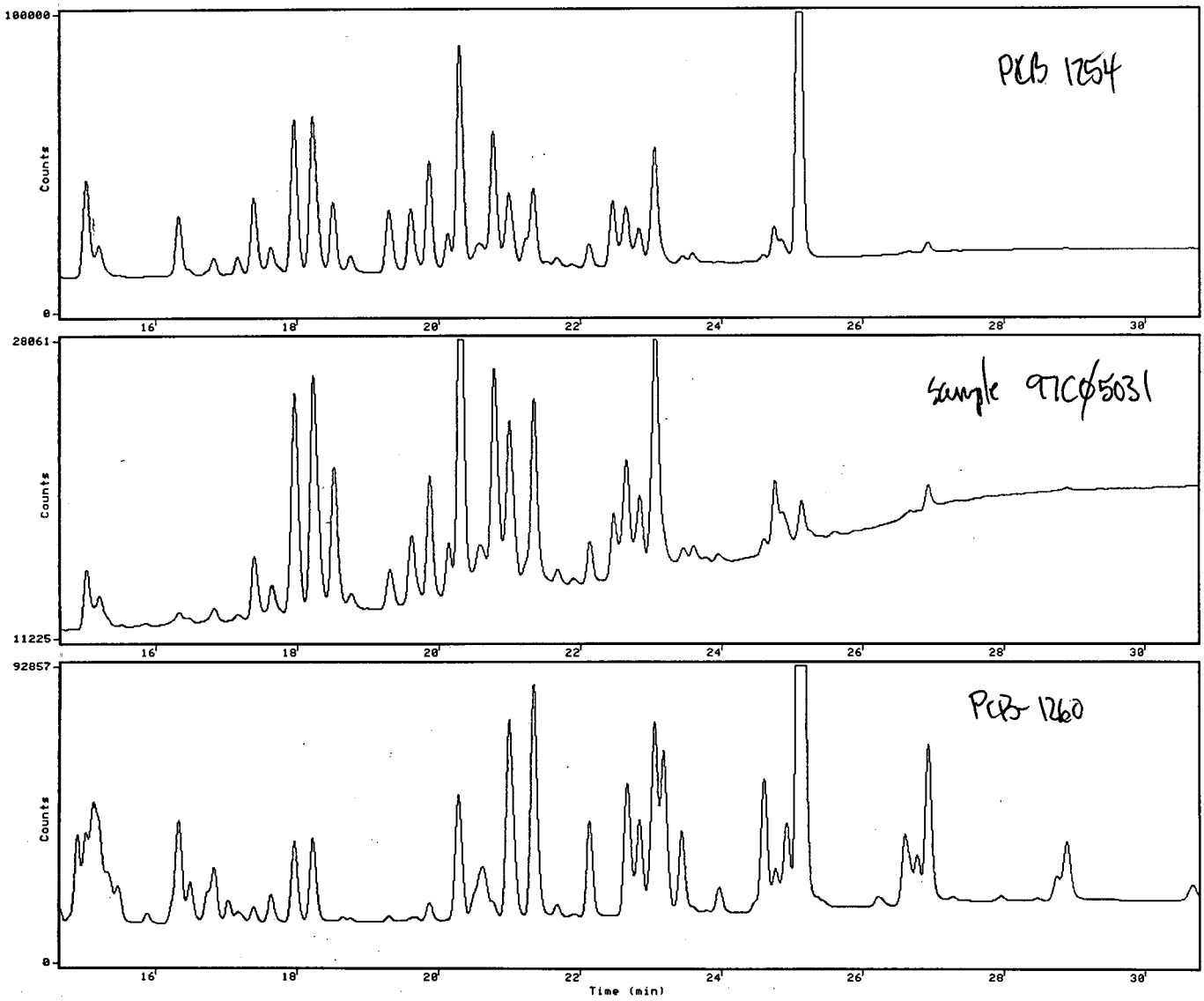
1: Warning, Data unsuited to calculate offset for a named peak. (146)

2: Warning, Insufficient data for requested calculation fit. (153)
3: WARNING: Peak windows overlap. Check peak identification. (245)
4: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

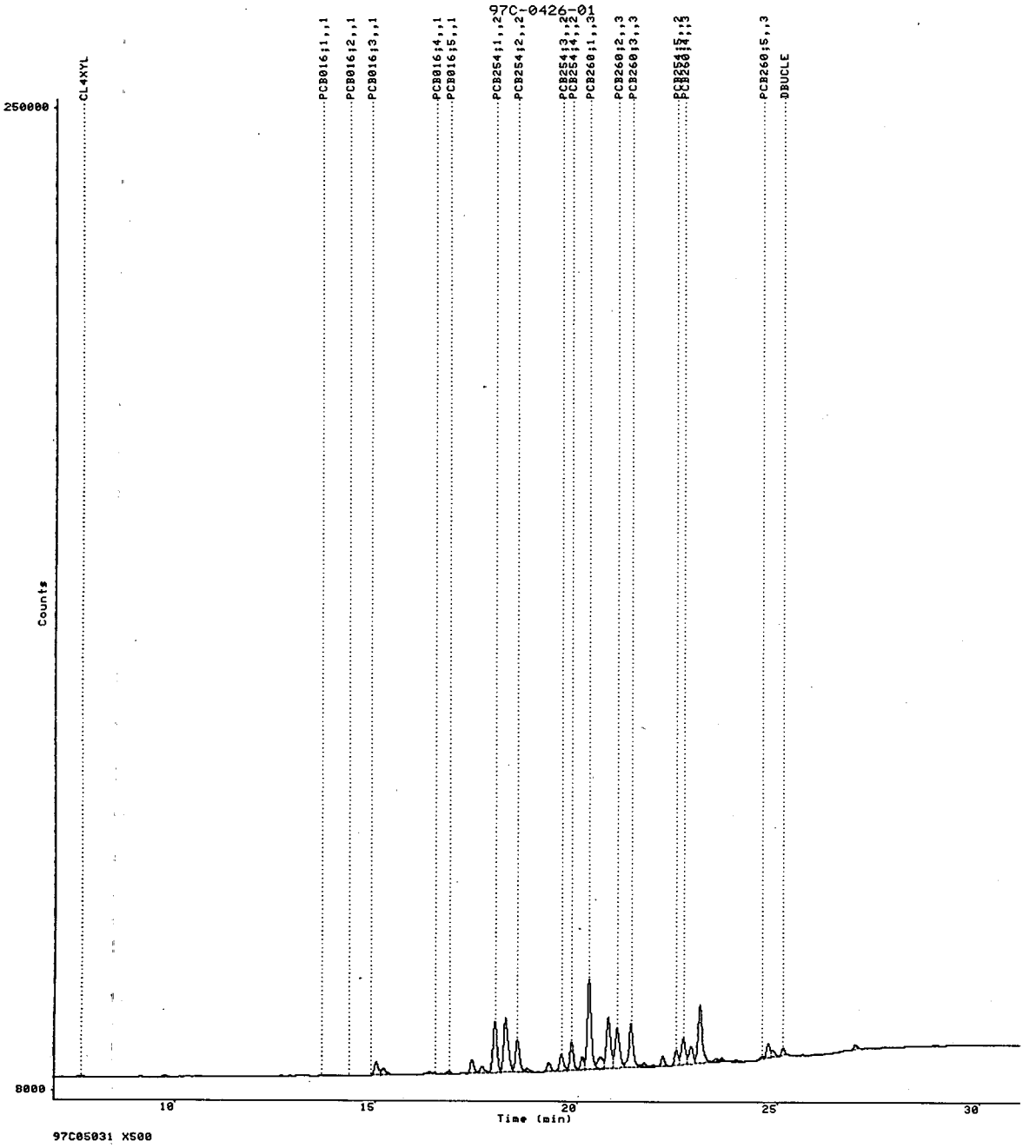
Date: 18-NOV-1997 09:17:35.71

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316074	14.62	30.78	11225	28061	1
5997316073	14.62	30.78	0	92857	1

PCB-1254 match



Data file: DISK:[TAYLORC]5997316074.RAW;1
Report: 1197250802
Acquired: 16-NOV-1997 03:11:34
Time range: 7.00-31.00



0461

Date.....17-NOV-1997 17:55:16.46 User: TAYLORC
Report number.....1197250803
Raw file.....DISK:[TAYLORC]5997316075.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....16-NOV-1997 03:48:55
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05033 X2000
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min	Delay time.....7.000 min
Area reject.....100 count(s)	No. peaks found.....36
Noise threshold.....10.0 microvolts	Area threshold.....120
Start peak width....6.00 sec(s)	Area/Pk.Ht.....H
Min. window.....8.00 sec	% window.....0.00
Analysis type.....EXTERNAL STANDARD	A/D range.....1.0 volt(s)
Sample rack.....25	
Sample vial.....25	
Analysis fit.....Quadratic	Origin treatment....Ignore
Report units.....UG/SAMPLE	
Sample amount.....1.00000	
Volume injected.....1.00000	Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
7.67	CL4XYL			
13.67	PCB016;1	1		
14.34	PCB016;2	1		
16.48	PCB016;4	1		
32.58	CL10BP			

0462

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
PCB016;3	15.013	-7.25	5.808	1937		BV	1
	15.133			1205		VB	
	16.325			181		BB	
PCB016;5	16.823	0.54	1.361	364		BB	1
	17.166			160		BB	
	17.390			2117		BV	
	17.638			959		VV	
PCB254;1	17.956	0.24	6.748	6625		VV	2
	18.222			7873		VV	
PCB254;2	18.511	0.02	10.54	4394		VE	2
	18.759			436		EB	
	19.304			1169		BV	
PCB254;3	19.610	0.18	5.924	2353		VV	2
PCB254;4	19.864	0.05	6.094	4098		VV	2
	20.133			1805		VV	
PCB260;1	20.298	-0.19	20.99	12084		VE	3
	20.581			1547		EV	
	20.778			7461		VV	
PCB260;2	20.995	1.00	5.848	5382		VV	3
PCB260;3	21.341	1.00	6.041	6087		VE	3
	21.678			528		EV	
	21.902			160		EB	
	22.133			1295		BB	
PCB254;5	22.470	-0.79	5.536	2203		BV	2
PCB260;4	22.649	0.39	6.122	3629		VV	3
	22.839			2366		VV	
	23.059			7921		VE	
	23.461			443		EV	
	23.605			440		EB	
	23.962			185		BB	
PCB260;5	24.603	0.11	1.113 -	404		BV	3
	24.753			2108		VV	
	24.857			1085		VB	
DBUCLE	25.129	-0.03	0.8482 -	982		BB	
	25.618			78		BB	
	26.920			683		BB	

GROUP REPORT

Group	UG/SAMPLE
1	7.169
2	34.85
3	40.12

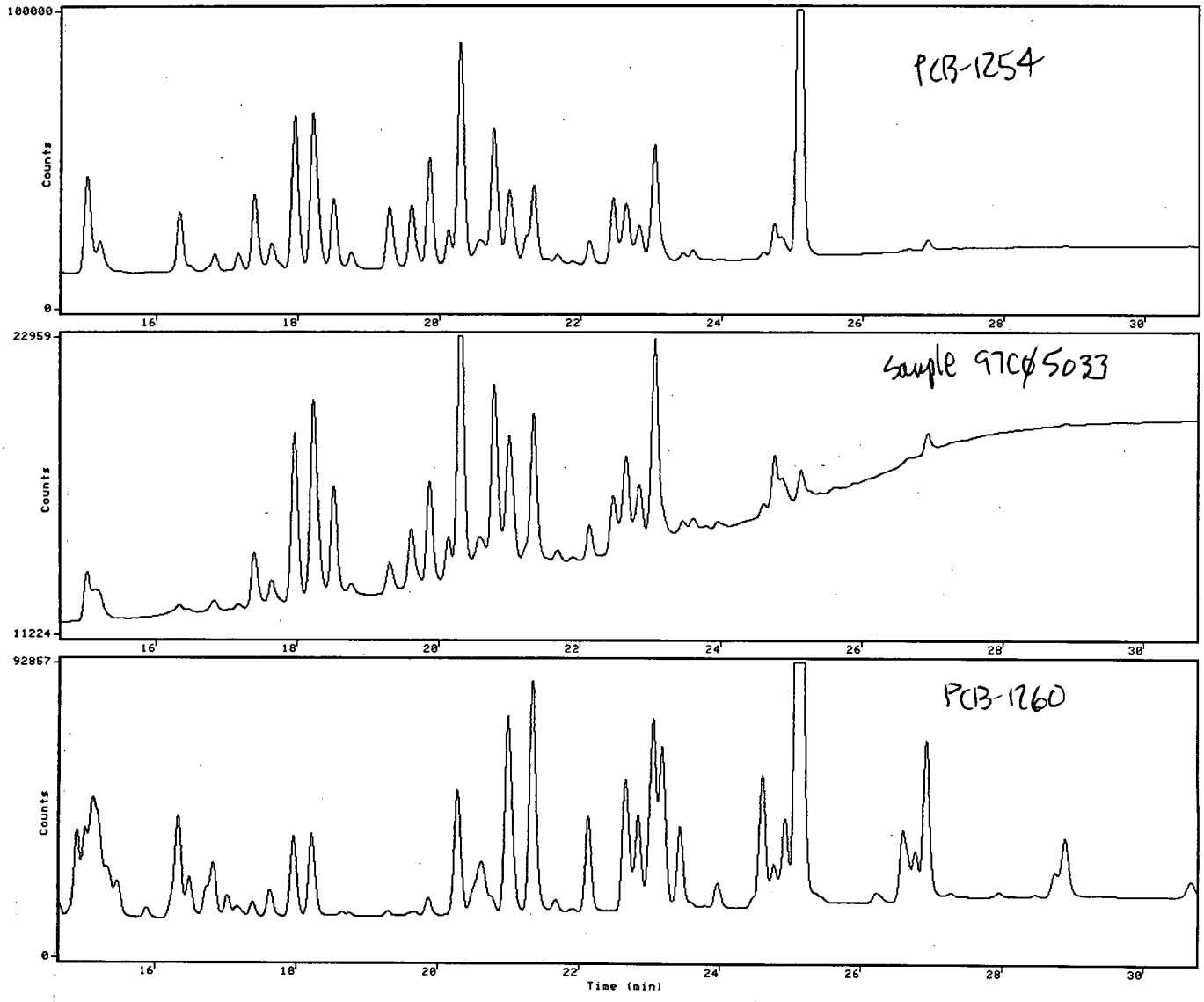
ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

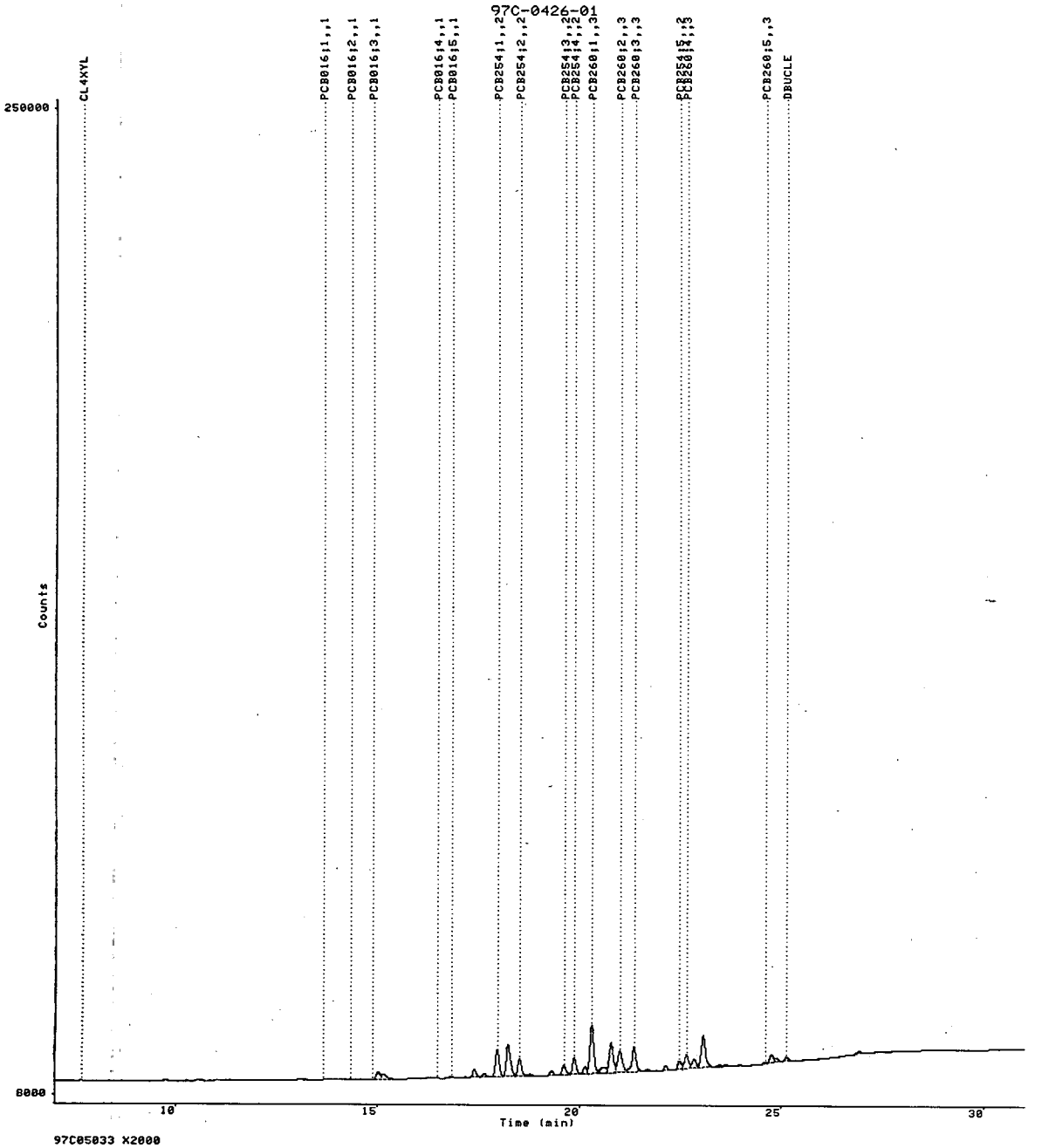
Date: 18-NOV-1997 09:22:15.23

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316075	14.62	30.78	11224	22959	1
5997316073	14.62	30.78	0	92857	1

PCB-1254 match



Data file: DISK:[TAYLORC]5997316075.RAW;1
Report: 1197250803
Acquired: 16-NOV-1997 03:48:55
Time range: 7.00-31.00



0465

Date.....17-NOV-1997 17:55:29.17 User: TAYLORC
Report number.....1197250804
Raw file.....DISK:[TAYLORC]5997316076.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....16-NOV-1997 04:26:17
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05033MS X2000
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....30
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
7.67	CL4XYL			
13.67	PCB016;1	1		
14.34	PCB016;2	1		
16.48	PCB016;4	1		
32.58	CL10BP			

0466

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
PCB016;3	15.013	-7.28	2.627	797			BV	1
	15.120			704			VB	
PCB016;5	16.824	0.45	0.5467 -	131			BB	1
	17.394			821			BV	
	17.641			353			VV	
PCB254;1	17.957	0.15	2.687	2754			VV	2
	18.223			3224			VV	
PCB254;2	18.513	-0.10	4.262	1750			VE	2
	18.764			138			EB	
	19.307			410			BB	
PCB254;3	19.612	0.05	2.163	859			BV	2
PCB254;4	19.866	-0.04	2.377	1585			VV	2
	20.136			638			VV	
PCB260;1	20.300	-0.29	8.448	4770			VE	3
	20.586			539			EV	
	20.782			2803			VV	
PCB260;2	20.997	0.90	2.428	2213			VV	3
PCB260;3	21.343	0.88	2.507	2387			VB	3
	21.681			161			BB	
	22.135			499			BB	
PCB254;5	22.475	-1.06	2.337	844			BV	2
PCB260;4	22.651	0.30	2.582	1530			VV	3
	22.842			963			VV	
	23.060			3261			VE	
	23.466			148			EV	
	23.608			156			EB	
PCB260;5	24.607	-0.15	0.5936 -	115			BB	3
	24.756			596			BB	
DBUCLE	25.131	-0.14	0.6864 -	439			BB	
	26.929			262			BB	

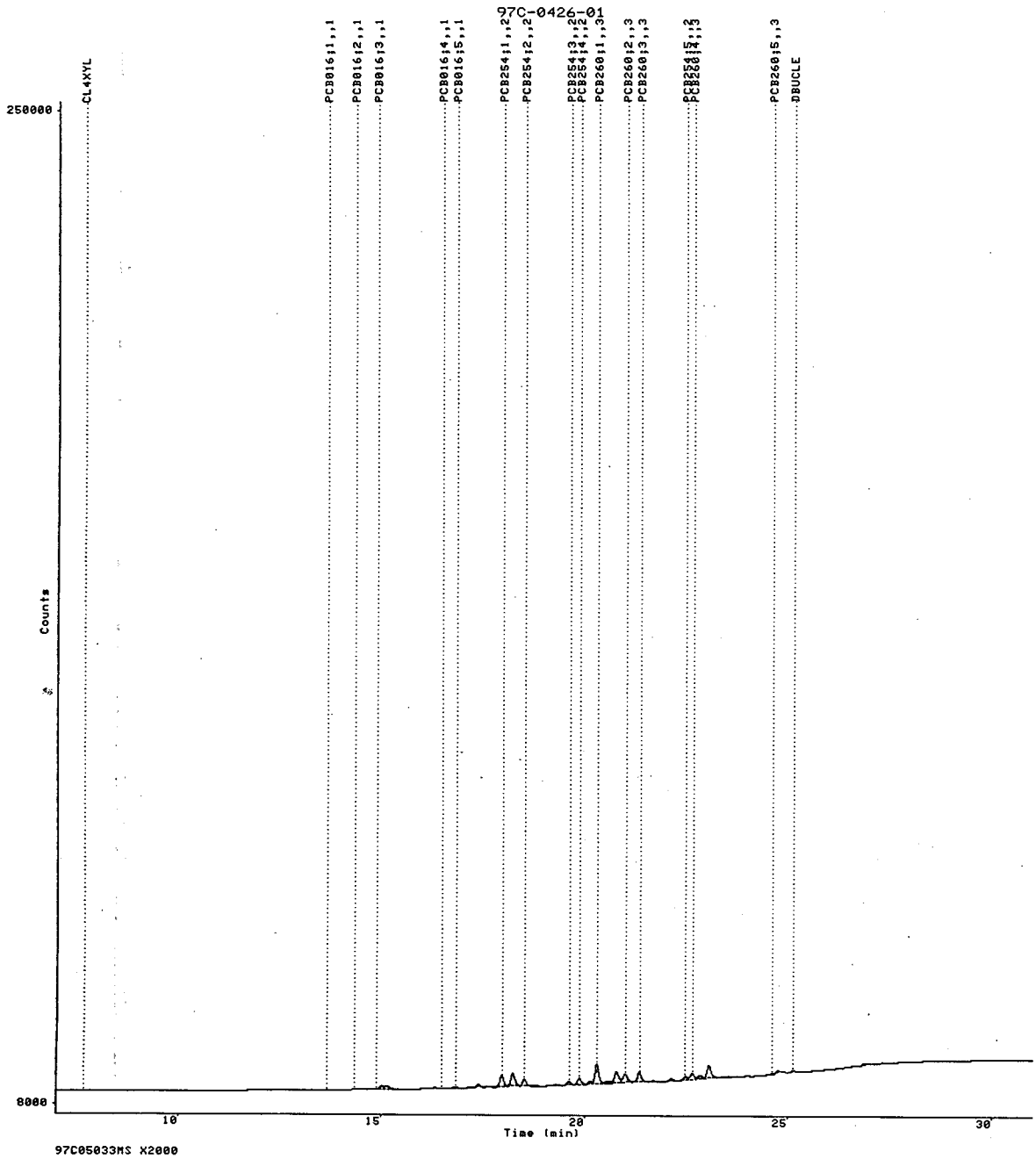
GROUP REPORT

Group	UG/SAMPLE
1	3.173
2	13.83
3	16.56

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316076.RAW;1
Report: 1197250804
Acquired: 16-NOV-1997 04:26:17
Time range: 7.00-31.00



0468

Date.....17-NOV-1997 17:55:43.38 User: TAYLORC
Report number.....1197250805
Raw file.....DISK:[TAYLORC]5997316077.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....16-NOV-1997 05:03:38
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05033MSD X2000
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min	Delay time.....7.000 min
Area reject.....100 count(s)	No. peaks found.....37
Noise threshold.....10.0 microvolts	Area threshold.....120
Start peak width....6.00 sec(s)	Area/Pk.Ht.....H
Min. window.....8.00 sec	% window.....0.00
Analysis type.....EXTERNAL STANDARD	A/D range.....1.0 volt(s)
Sample rack.....25	
Sample vial.....25	
Analysis fit.....Quadratic	Origin treatment....Ignore
Report units.....UG/SAMPLE	
Sample amount.....1.00000	
Volume injected.....1.00000	Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
7.67	CL4XYL			
13.67	PCB016;1	1		
14.34	PCB016;2	1		
16.48	PCB016;4	1		
32.58	CL10BP			

0469

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
	10.591			117		BB	
PCB016;3	15.014	-7.30	6.187	2074		BV	1
	15.185			992		VB	
	16.327			149		BB	
PCB016;5	16.825	0.41	1.553	419		BB	1
	17.170			179		BV	
	17.393			2174		VV	
	17.640			912		VV	
PCB254;1	17.958	0.12	6.707	6586		VV	2
	18.223			7846		VV	
PCB254;2	18.512	-0.04	10.34	4308		VE	2
	18.761			409		EB	
	19.305			1052		BV	
PCB254;3	19.612	0.08	5.729	2276		VV	2
PCB254;4	19.865	-0.02	6.055	4072		VV	2
	20.134			1774		VV	
PCB260;1	20.300	-0.30	20.31	11682		VE	3
	20.584			1527		EV	
	20.780			6893		VV	
PCB260;2	20.996	0.95	5.741	5283		VV	3
PCB260;3	21.343	0.91	5.690	5719		VE	3
	21.678			523		EV	
	21.901			153		EB	
	22.133			1193		BB	
PCB254;5	22.473	-0.99	5.140	2036		BV	2
PCB260;4	22.649	0.39	5.848	3466		VV	3
	22.840			2211		VV	
	23.059			7322		VE	
	23.461			382		EV	
	23.606			405		EB	
	23.959			174		BB	
PCB260;5	24.604	0.06	1.043 -	365		BV	3
	24.753			1911		VV	
	24.891			844		VB	
DBUCLE	25.131	-0.14	0.8234 -	899		BB	
	25.630			60		BB	
	26.921			645		BB	

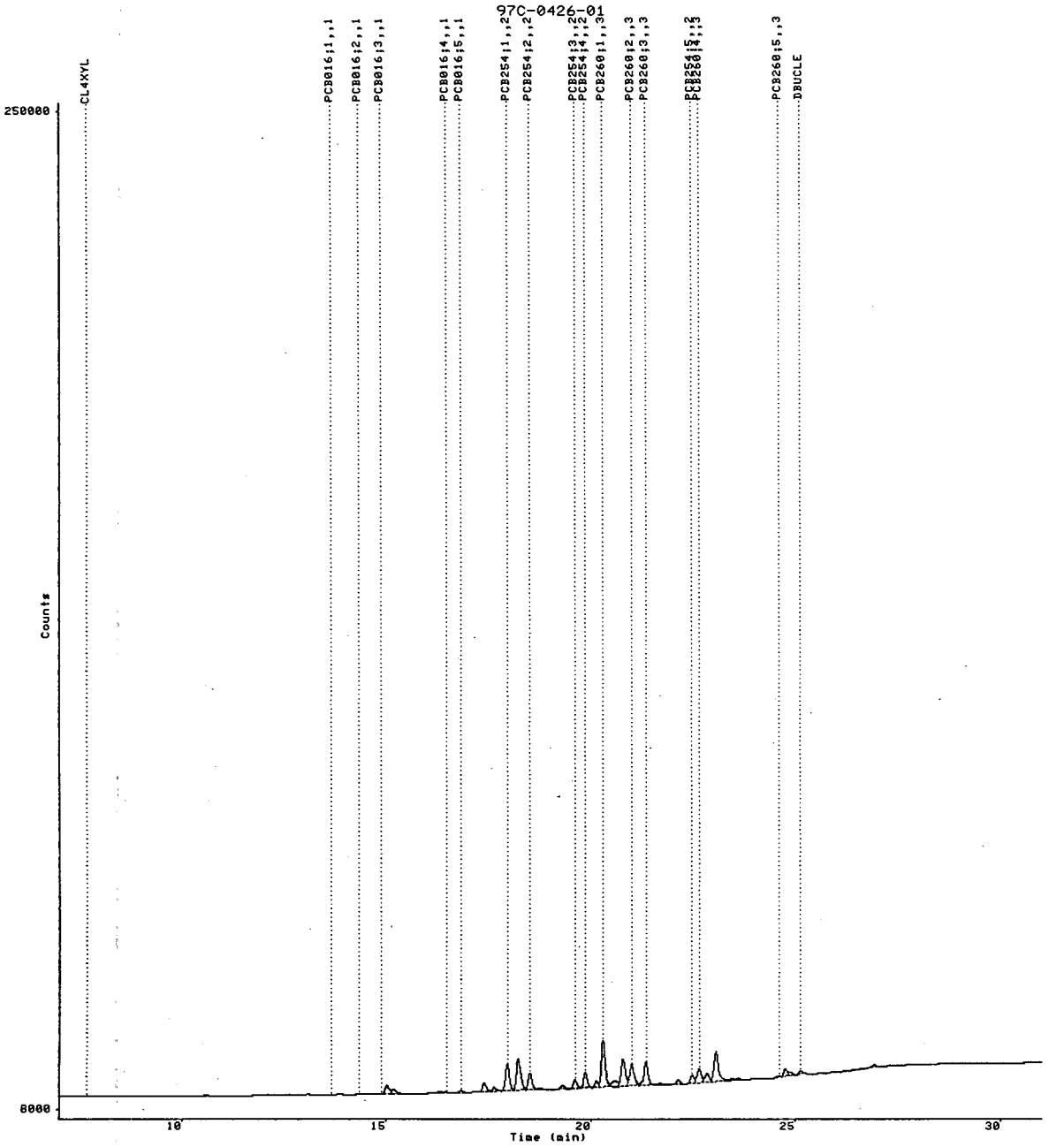
GROUP REPORT

Group	UG/SAMPLE
1	7.740
2	33.97
3	38.63

ANALYSIS NOTES

1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316077.RAW;1
Report: 1197250805
Acquired: 16-NOV-1997 05:03:38
Time range: 7.00-31.00



0471

Date.....17-NOV-1997 17:55:55.57 User: TAYLORC
Report number.....1197250806
Raw file.....DISK:[TAYLORC]5997316078.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....16-NOV-1997 05:41:01
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05032 X5
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....60
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref	Std	BL	Group
CL4XYL	7.653	1.14	3.796	15064			BB	
	9.147			2432			BB	
	9.757			461			BB	
	10.294			70			BB	
	10.586			627			BB	
	11.695			331			BB	
	12.659			331			BV	
	12.882			188			VB	

0472

	13.113			355	BB	
PCB016;1	13.753	-5.23	0.1709 -	280	BB	1
PCB016;2	14.308	2.03	0.2916 -	199	BB	1
PCB016;3	15.010	-7.09	21.43	7772	BV	1
	15.200			3649	VV	
	15.465			1470	VB	
	15.855			131	BB	
	16.183			241	BV	
	16.327			1253	VV	
PCB016;4	16.448	1.71	3.291	640	VB	1
PCB016;5	16.821	0.64	5.800	1648	BB	1
	17.168			457	BV	
	17.389			6566	VV	
	17.634			2668	VV	
PCB254;1	17.956	0.24	29.05	26974	VV	2
	18.222			28336	VV	
PCB254;2	18.511	0.01	47.88	19145	VE	2
	18.757			1650	EB	
	19.303			4615	BV	
PCB254;3	19.611	0.15	23.05	8886	VV	2
PCB254;4	19.864	0.04	25.83	16965	VV	2
	20.133			8221	VV	
PCB260;1	20.298	-0.17	82.51	49454	VE	3
	20.579			5875	EV	
	20.776			28332	VV	
PCB260;2	20.970	2.53	26.21	24285	VV	3
PCB260;3	21.342	0.98	22.38	23369	VE	3
	21.677			1886	EV	
	21.897			617	EB	
	22.132			4727	BV	
PCB254;5	22.466	-0.56	19.09	7782	VV	2
PCB260;4	22.651	0.33	22.05	13161	VV	3
	22.839			9956	VV	
	23.059			31401	VE	
	23.457			2278	EV	
	23.607			2364	EV	
	23.944			1833	VB	
PCB260;5	24.602	0.21	1.982	888	BB	3
	24.752			5792	BB	
DBUCLE	25.110	1.14	2.954	8072	BE	
	25.379			768	EB	
	25.589			824	BB	
	25.872			521	BB	
	26.054			165	BB	
	26.665			454	BV	
	26.916			2403	VB	
	27.356			151	BB	
	27.733			309	BV	
	27.863			404	VB	
	28.882			138	BB	
	30.668			132	BB	
CL10BP	32.537	2.68		5579	BB	

GROUP REPORT

Group	UG/SAMPLE
1	30.99
2	144.9

3 155.1

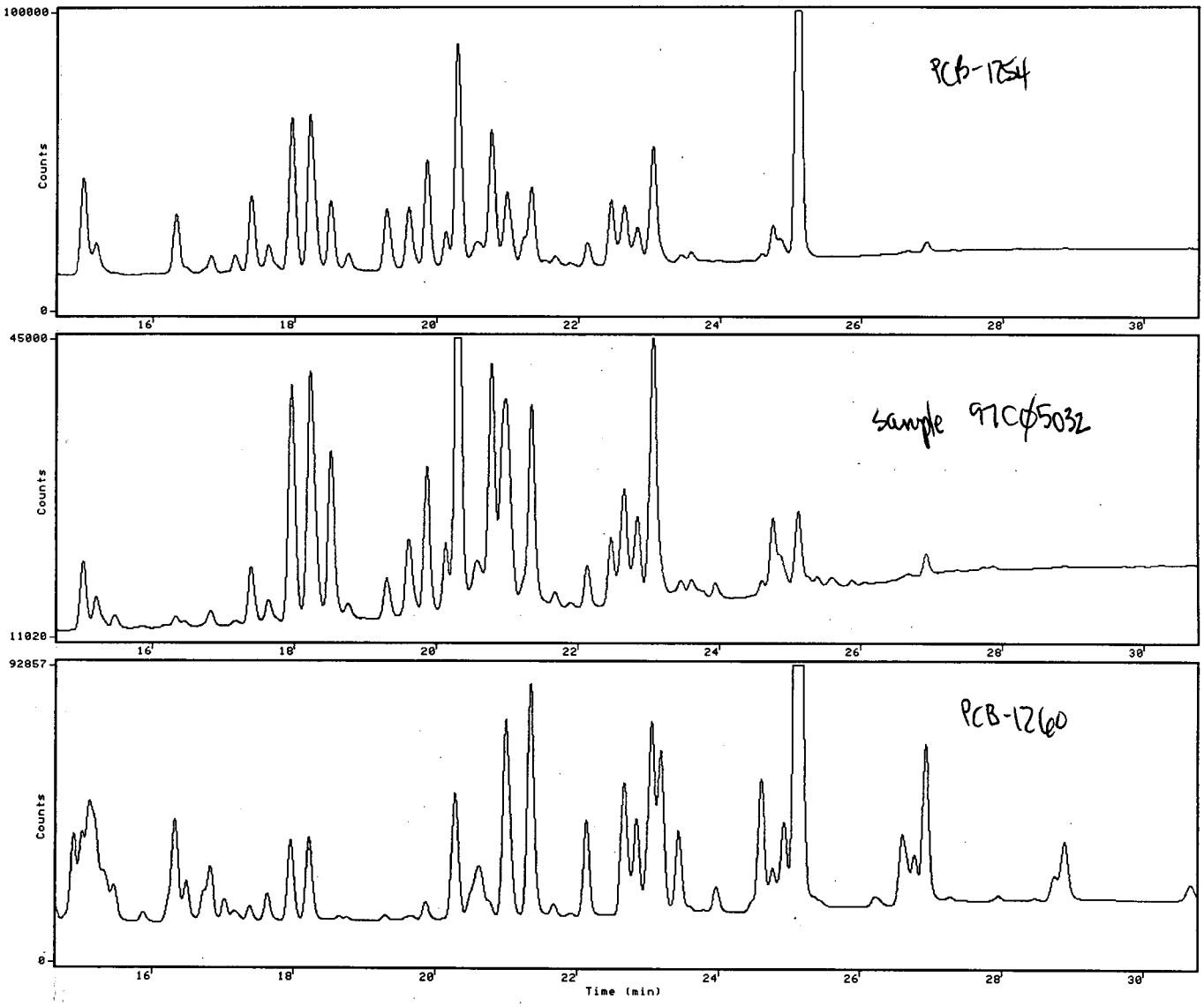
ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Response is outside of the response function domain. (149)
3: Warning, Insufficient data for requested calculation fit. (153)
4: WARNING: Peak windows overlap. Check peak identification. (245)
5: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

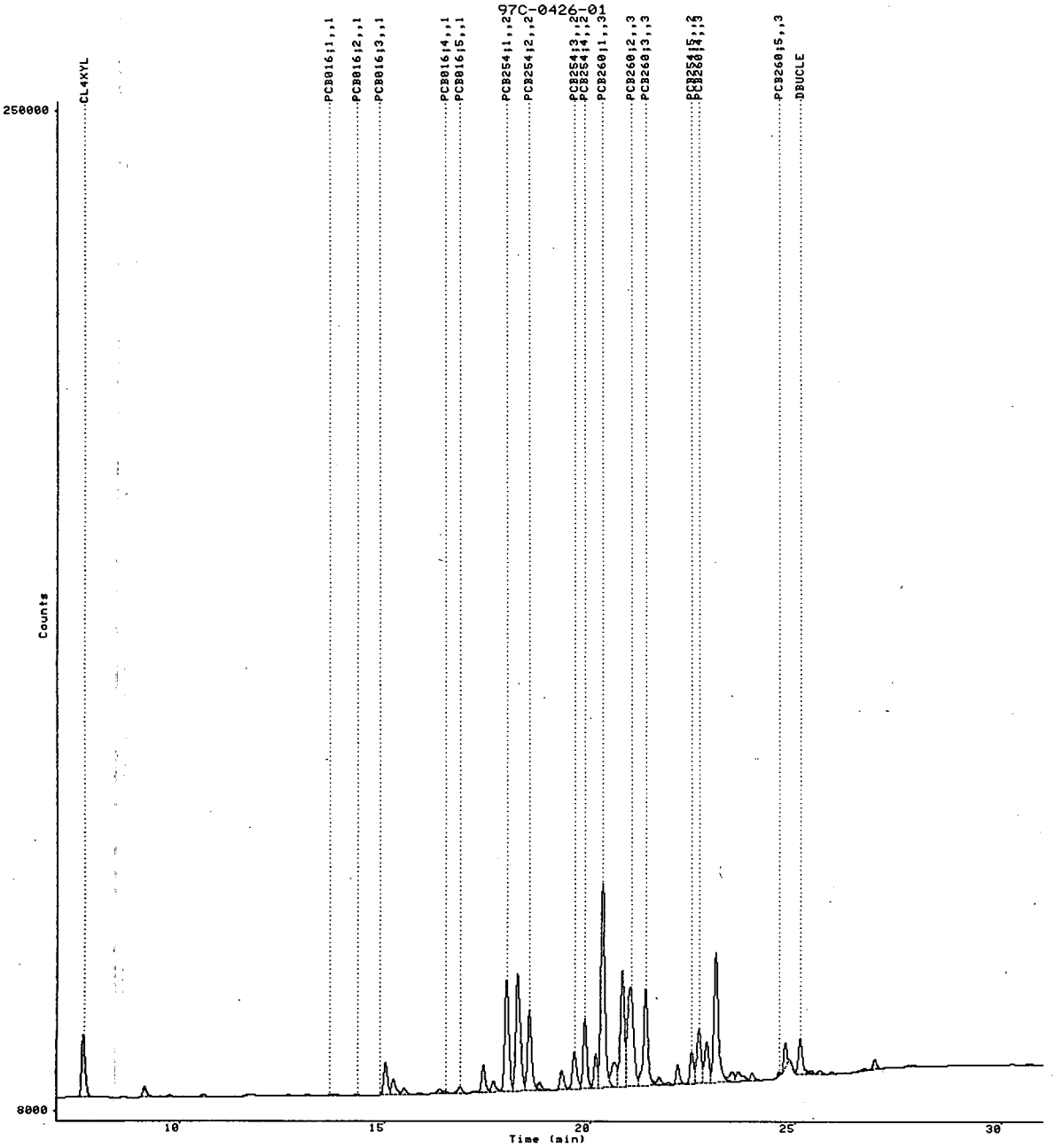
Date: 18-NOV-1997 09:20:07.78

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316078	14.62	30.78	11020	45000	1
5997316073	14.62	30.78	0	92857	1

PCB 1254 match



Data file: DISK:[TAYLORC]5997316078.RAW;1
Report: 1197250806
Acquired: 16-NOV-1997 05:41:01
Time range: 7.00-31.00



97C05032 X5

0476

Date.....17-NOV-1997 17:56:10.70 User: TAYLORC
Report number.....1197250808
Raw file.....DISK:[TAYLORC]5997316079.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....16-NOV-1997 06:18:22
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05034 X500
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....	34.001 min	Delay time.....	7.000 min
Area reject.....	100 count(s)	No. peaks found.....	46
Noise threshold.....	10.0 microvolts	Area threshold.....	120
Start peak width....	6.00 sec(s)	Area/Pk.Ht.....	H
Min. window.....	8.00 sec	% window.....	0.00
Analysis type.....	EXTERNAL STANDARD	A/D range.....	1.0 volt(s)
Sample rack.....	25		
Sample vial.....	25		
Analysis fit.....	Quadratic	Origin treatment....	Ignore
Report units.....	UG/SAMPLE		
Sample amount.....	1.00000		
Volume injected.....	1.00000	Conversion factor...	3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
13.67	PCB016;1	1		
14.34	PCB016;2	1		
16.48	PCB016;4	1		
32.58	CL10BP			

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	7.656	0.96	0.04936-	140		BB	
	9.765			526		BB	
	10.592			246		BB	
	12.664			114		BB	
	12.883			92		BB	
	13.131			170		BB	
PCB016;3	15.013	-7.27	11.59	4050		BV	1
	15.202			2031		VE	
	15.507			150		EB	
	15.859			110		BB	
	16.329			487		BB	
PCB016;5	16.824	0.47	3.456	967		BB	1
	17.159			359		BV	
	17.392			4482		VV	
	17.638			2282		VV	
PCB254;1	17.957	0.15	17.12	16283		VV	2
	18.224			16011		VV	
PCB254;2	18.516	-0.33	24.02	9910		VE	2
	18.760			983		EB	
	19.305			3217		BV	
PCB254;3	19.612	0.08	13.20	5181		VV	2
PCB254;4	19.866	-0.05	13.41	8964		VV	2
	20.133			4301		VV	
PCB260;1	20.300	-0.30	45.85	26885		VE	3
	20.586			3373		EV	
	20.777			15595		VV	
PCB260;2	20.998	0.87	12.04	11124		VV	3
PCB260;3	21.342	0.94	11.92	12276		VE	3
	21.678			1100		EB	
	21.902			307		BB	
	22.134			2680		BB	
PCB254;5	22.468	-0.64	11.40	4652		BV	2
PCB260;4	22.652	0.27	12.70	7551		VV	3
	22.839			5022		VV	
	23.059			16326		VE	
	23.461			913		EV	
	23.605			961		EB	
	23.953			399		BB	
PCB260;5	24.604	0.03	1.871	826		BV	3
	24.753			4380		VV	
	24.890			1795		VB	
DBUCLE	25.131	-0.13	1.143 -	1972		BB	
	25.601			243		BB	
	25.892			72		BB	
	26.635			254		BV	
	26.920			1492		VB	

GROUP REPORT

Group	UG/SAMPLE
1	15.04
2	79.16
3	84.39

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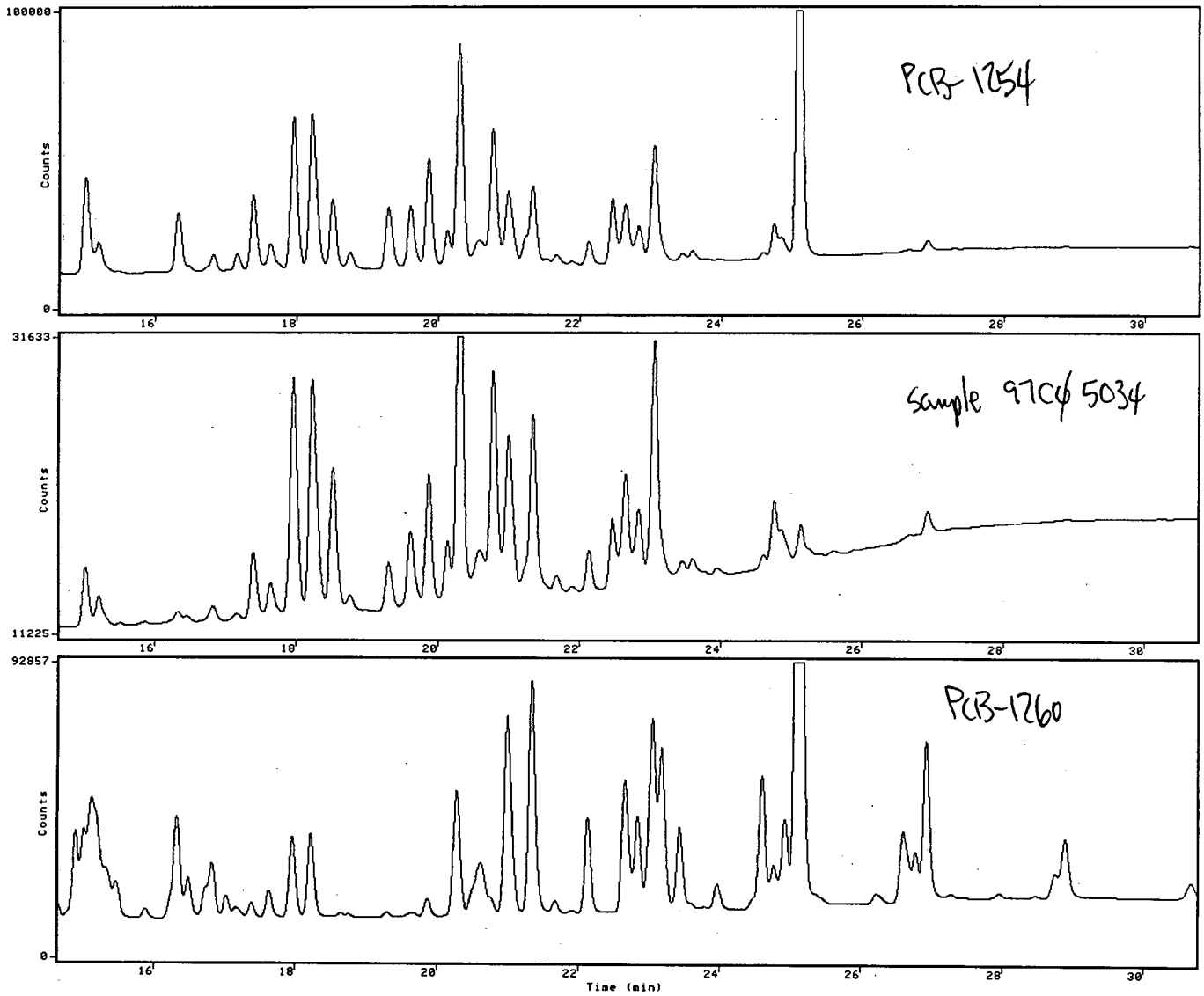
ANALYSIS NOTES

```
1: WARNING: Peak windows overlap. Check peak identification. (245)
2: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)
```

Date: 18-NOV-1997 09:23:57.25

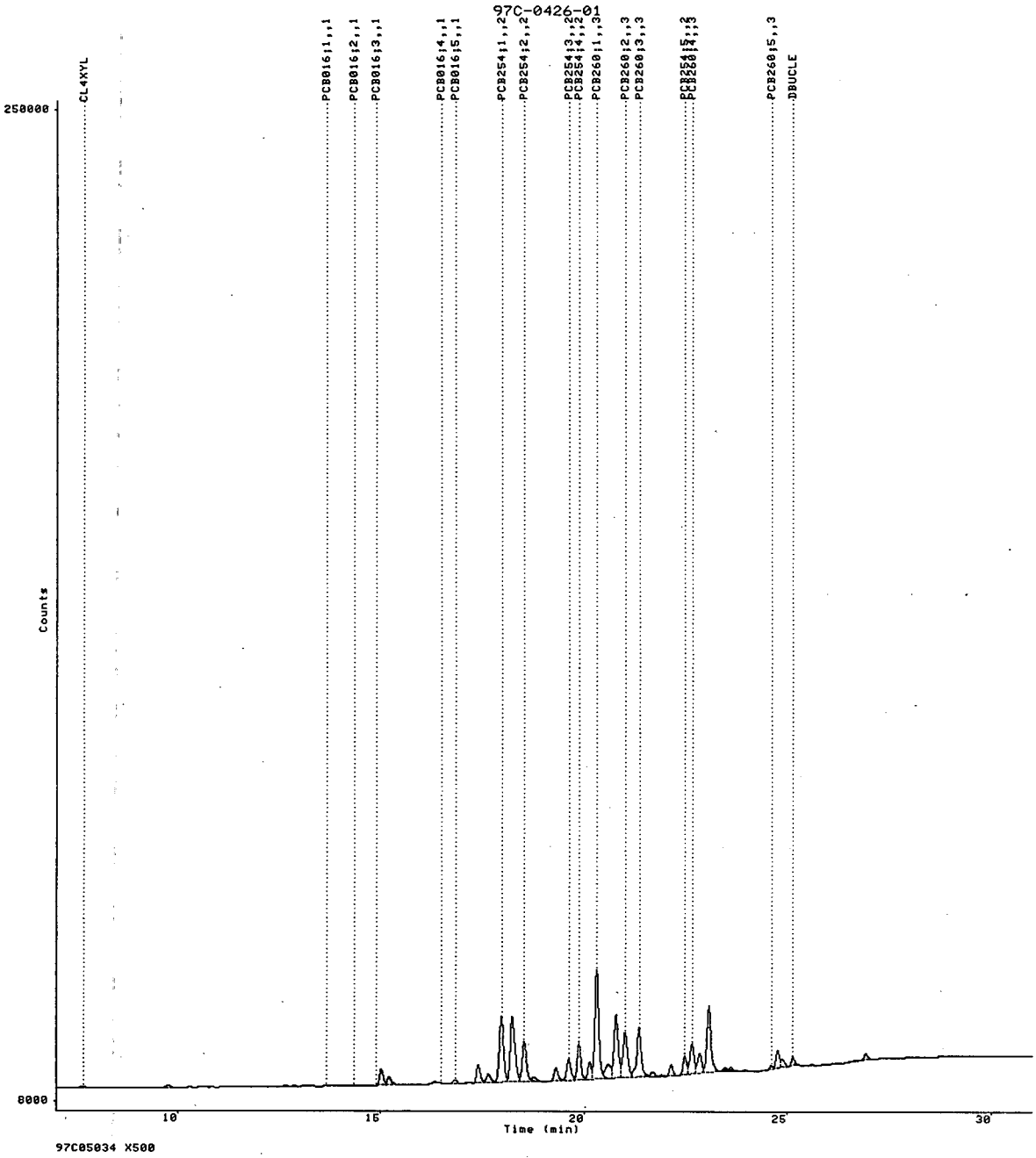
Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316079	14.62	30.78	11225	31633	1
5997316073	14.62	30.78	0	92857	1

PCB-1254 match



0480

Data file: DISK:[TAYLORC]5997316079.RAW;1
Report: 1197250808
Acquired: 16-NOV-1997 06:18:22
Time range: 7.00-31.00



0481

Date.....17-NOV-1997 17:56:22.72 User: TAYLORC
Report number.....1197250809
Raw file.....DISK:[TAYLORC]5997316080.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....16-NOV-1997 06:55:43
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05035 X100
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....60
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	7.660	0.74	0.1861 -	685		BB	
	9.153			677		BB	
	9.767			677		BB	
	10.141			103		BB	
	10.591			237		BB	
	11.675			243		BB	
	12.165			428		BB	
	12.634			315		BV	

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	12.885				471	VB	
	13.192				694	BV	
	13.334				396	VB	
PCB016;1	13.686	-1.19	0.5332	-	740	BB	1
	14.072				267	BV	
PCB016;2	14.322	1.22	0.2336	-	168	VB	1
	14.619				1395	BV	
PCB016;3	14.791	6.07	2.219		652	VV	1
	15.013				6661	VV	
	15.205				5873	VE	
	15.493				426	EV	
	15.842				767	VB	
	16.329				2920	BV	
PCB016;4	16.475	0.09	5.120		1005	VB	1
PCB016;5	16.739	5.59	1.260	-	335	BB	1
	17.147				616	BV	
	17.389				2737	VV	
	17.637				2769	VV	
PCB254;1	17.957	0.17	21.53		20280	VV	2
	18.225				15746	VV	
PCB254;2	18.523	-0.71	26.09		10738	VE	2
	18.759				1397	EV	
	18.991				277	VB	
	19.301				5578	BV	
PCB254;3	19.609	0.26	12.62		4960	VV	2
PCB254;4	19.864	0.05	12.07		8079	VV	2
	20.132				3491	VV	
PCB260;1	20.298	-0.15	42.10		24622	VE	3
	20.587				3357	EV	
	20.773				12813	VV	
PCB260;2	20.993	1.15	12.35		11409	VV	3
PCB260;3	21.341	1.02	11.97		12326	VE	3
	21.679				1178	EV	
	21.928				1468	VV	
	22.131				2673	VB	
PCB254;5	22.462	-0.29	9.363		3808	BV	2
PCB260;4	22.651	0.29	12.17		7234	VV	3
	22.837				5444	VV	
	23.057				15704	VE	
	23.455				1164	EV	
	23.601				1019	EB	
	23.975				288	BB	
PCB260;5	24.600	0.28	2.322		1078	BV	3
	24.749				4294	VV	
	24.854				2213	VV	
DBUCLE	25.125	0.26	1.533	-	3284	VB	
	25.596				155	BB	
	26.609				233	BB	
	26.915				1732	BB	
	27.732				1379	BB	
	28.878				176	BB	
CL10BP	32.535	2.83	52.10	-	302	BB	

GROUP REPORT

Group	UG/SAMPLE
1	9.366
2	81.67

3	80.91

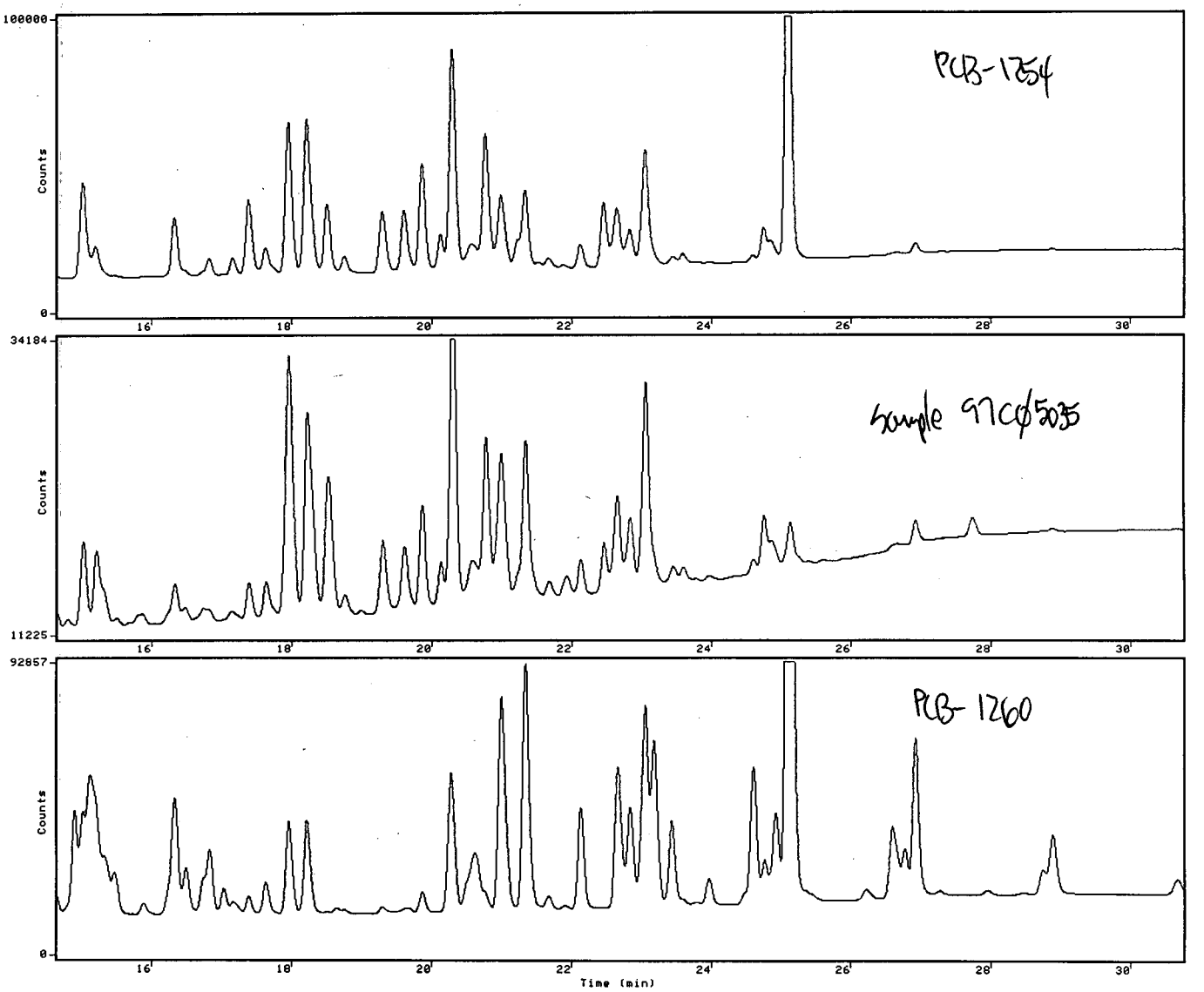
ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Warning, Insufficient data for requested calculation fit. (153)
3: WARNING: Peak windows overlap. Check peak identification. (245)
4: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

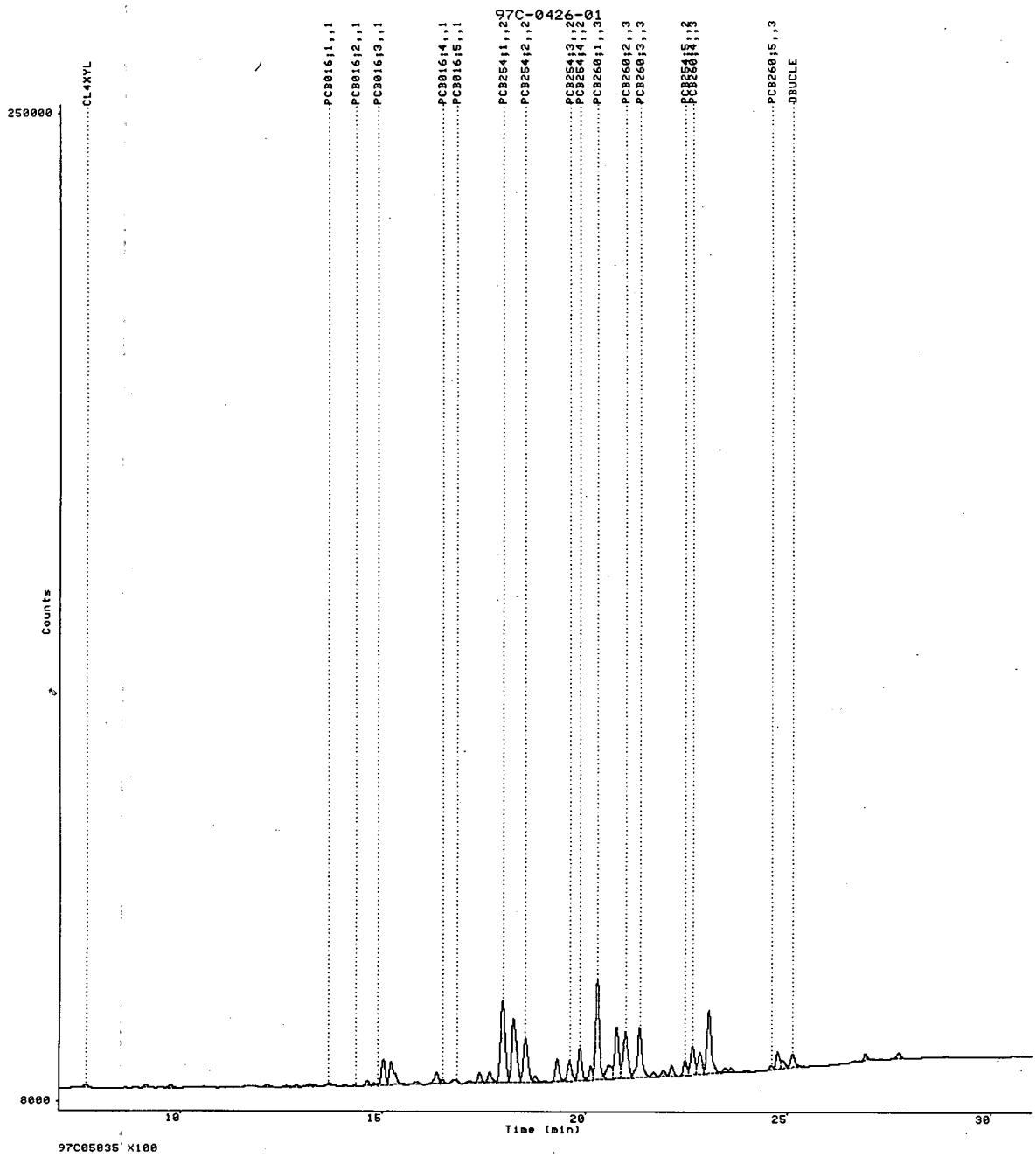
Date: 18-NOV-1997 09:27:00.19

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316080	14.62	30.78	11225	34184	1
5997316084	14.62	30.78	0	92857	1

PCB-1254 match



Data file: DISK:[TAYLORC]5997316080.RAW;1
Report: 1197250809
Acquired: 16-NOV-1997 06:55:43
Time range: 7.00-31.00



0486

Date.....17-NOV-1997 17:56:36.50 User: TAYLORC
Report number.....1197250810
Raw file.....DISK:[TAYLORC]5997316081.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....16-NOV-1997 07:33:02
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05036 X100
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min	Delay time.....7.000 min
Area reject.....100 count(s)	No. peaks found.....59
Noise threshold.....10.0 microvolts	Area threshold.....120
Start peak width....6.00 sec(s)	Area/Pk.Ht.....H
Min. window.....8.00 sec	% window.....0.00
Analysis type.....EXTERNAL STANDARD	A/D range.....1.0 volt(s)
Sample rack.....25	
Sample vial.....25	
Analysis fit.....Quadratic	Origin treatment....Ignore
Report units.....UG/SAMPLE	
Sample amount.....1.00000	
Volume injected.....1.00000	Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

MISSING PEAKS LIST

R.T.(min)	Peak name	Group	Ref	Std
14.34	PCB016;2	1		
16.48	PCB016;4	1		

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

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Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group

CL4XYL	7.658	0.83	0.1700	-	621		BB	
	9.149				238		BB	
	9.767				1607		BB	
	10.139				93		BB	
	10.591				146		BB	
	11.679				189		BB	
	12.165				268		BB	
	12.652				105		BB	
	12.884				334		BB	
	13.193				461		BV	
	13.339				247		VB	
PCB016;1	13.685	-1.15	0.3678	-	530		BB	1
	14.107				258		BB	
	14.621				275		BB	
PCB016;3	14.797	5.70	0.4970	-	43		BB	1
	15.013				2661		BV	
	15.204				2176		VE	
	15.498				264		EB	
	15.861				511		BB	
	16.325				1142		BB	
	16.642				183		BB	
PCB016;5	16.815	1.01	0.6937	-	173		BB	1
	17.387				1473		BB	
	17.639				1847		BV	
PCB254;1	17.957	0.19	16.81		15991		VV	2
	18.227				10323		VV	
PCB254;2	18.542	-1.88	23.80		9819		VE	2
	18.759				907		EB	
	18.996				300		BB	
	19.301				2909		BV	
PCB254;3	19.608	0.30	7.585		3006		VV	2
PCB254;4	19.864	0.06	7.387		4966		VV	2
	20.132				2522		VV	
PCB260;1	20.297	-0.13	31.37		18215		VE	3
	20.589				2506		EV	
	20.772				8126		VV	
PCB260;2	20.997	0.91	9.545		8810		VV	3
PCB260;3	21.342	0.98	9.756		9991		VE	3
	21.681				883		EB	
	21.933				1284		BV	
	22.131				2226		VB	
PCB254;5	22.461	-0.23	6.090		2437		BV	2
PCB260;4	22.652	0.26	9.889		5871		VV	3
	22.838				4447		VV	
	23.057				13226		VE	
	23.455				948		EV	
	23.602				787		EB	
	23.955				357		BB	
PCB260;5	24.601	0.22	2.175		996		BV	3
	24.750				3726		VV	
	24.850				1863		VV	
DBUCLE	25.124	0.30	1.464	-	3050		VB	
	25.592				214		BB	
	26.619				353		BV	
	26.772				207		VV	
	26.916				1691		VB	
	27.735				182		BB	
	28.879				180		BB	
CL10BP	32.535	2.84	52.76	-	307		BB	

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GROUP REPORT

Group	UG/SAMPLE
1	1.558
2	61.67
3	62.74

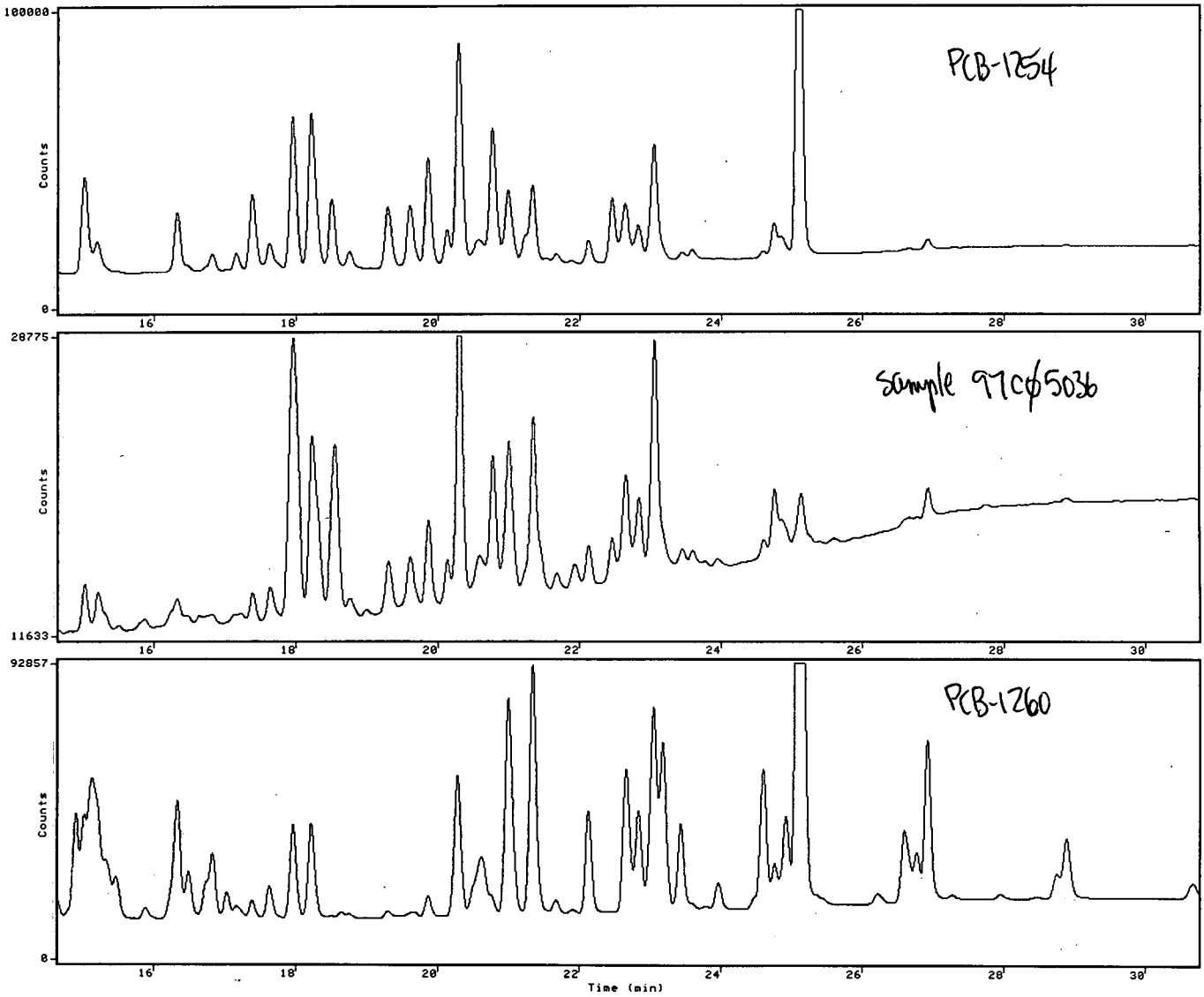
ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Warning, Insufficient data for requested calculation fit. (153)
3: WARNING: Peak windows overlap. Check peak identification. (245)
4: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

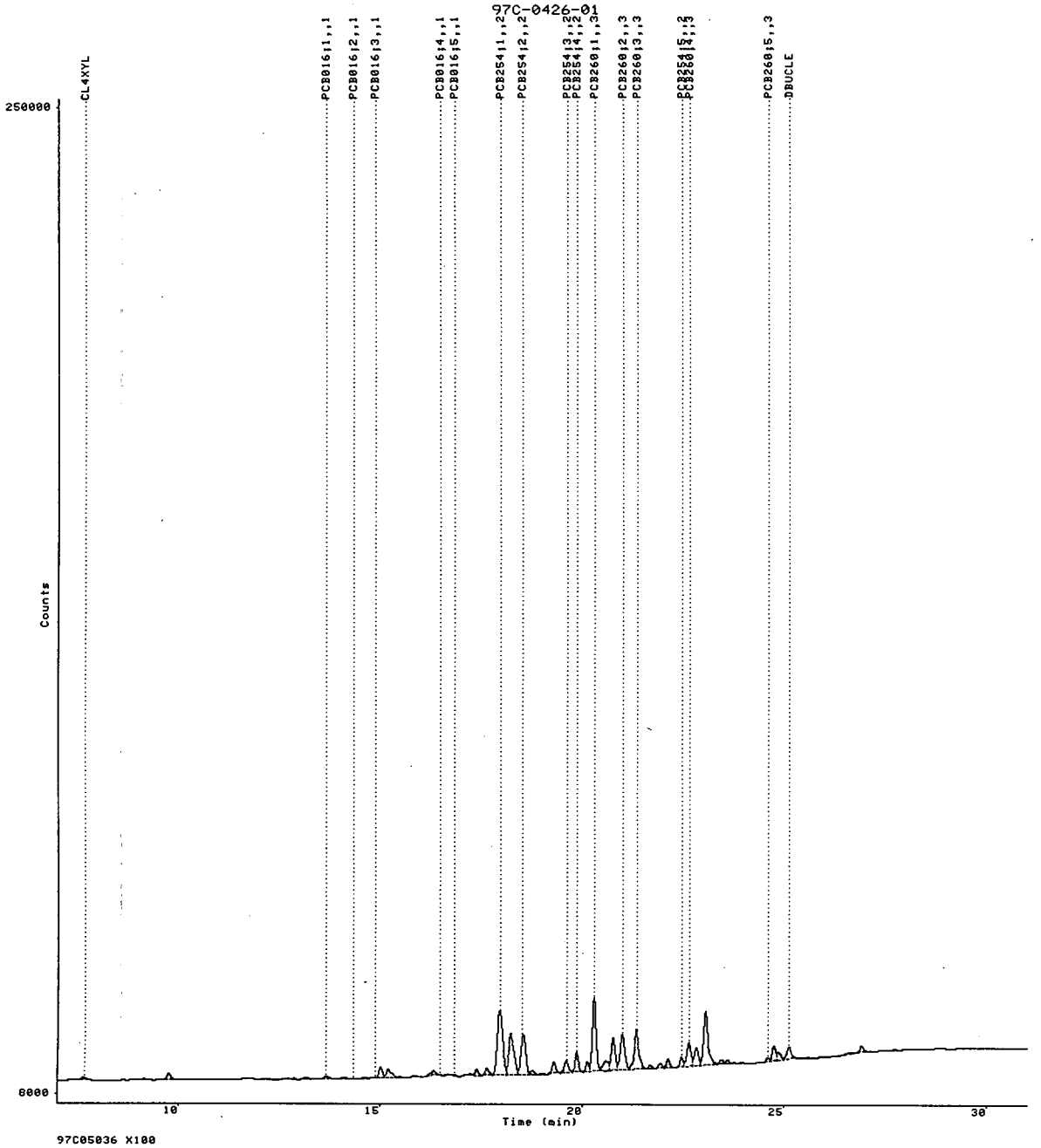
Date: 18-NOV-1997 09:28:46.42

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316081	14.62	30.78	11633	28775	1
5997316084	14.62	30.78	0	92857	1

PCB-1254 match



Data file: DISK:[TAYLORC]5997316081.RAW;1
Report: 1197250810
Acquired: 16-NOV-1997 07:33:02
Time range: 7.00-31.00



Date.....17-NOV-1997 17:56:49.03 User: TAYLORC
Report number.....1197250811
Raw file.....DISK:[TAYLORC]5997316082.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....3

Acq. date.....16-NOV-1997 08:10:25
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05038 X100
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....34.001 min Delay time.....7.000 min
Area reject.....100 count(s) No. peaks found.....61
Noise threshold.....10.0 microvolts Area threshold.....120
Start peak width....6.00 sec(s) Area/Pk.Ht.....H
Min. window.....8.00 sec % window.....0.00

Analysis type.....EXTERNAL STANDARD A/D range.....1.0 volt(s)
Sample rack.....25
Sample vial.....25
Analysis fit.....Quadratic Origin treatment....Ignore
Report units.....UG/SAMPLE
Sample amount.....1.00000
Volume injected.....1.00000 Conversion factor...3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	7.658	0.86	0.1660 -	605		BB	
	9.156			3999		BB	
	9.766			262		BB	
	10.140			164		BB	
	10.296			136		BB	
	10.590			835		BB	
	11.607			128		BB	
	11.843			136		BB	

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	12.165				2370	BB	
	12.623				751	BB	
	12.885				418	BV	
	13.055				580	VV	
	13.193				4717	VV	
	13.332				2476	VV	
PCB016;1	13.679	-0.77	1.880		2450	VE	1
	14.050				388	EB	
PCB016;2	14.344	-0.13	0.5123	-	317	BV	1
	14.469				175	VV	
	14.618				1343	VV	
PCB016;3	14.790	6.14	1.847		520	VV	1
	15.013				11281	VV	
	15.204				8831	VV	
	15.465				3595	VB	
	15.861				641	BB	
	16.330				6465	BV	
PCB016;4	16.482	-0.30	9.605		1906	VV	1
PCB016;5	16.822	0.59	7.528		2154	VV	1
	17.152				908	VB	
	17.388				3906	BV	
	17.634				3612	VV	
PCB254;1	17.957	0.19	15.09		14412	VV	2
	18.226				10313	VV	
PCB254;2	18.516	-0.31	15.37		6393	VV	2
	18.760				1688	VE	
	18.992				110	EB	
	19.303				4609	BV	
PCB254;3	19.612	0.06	9.902		3910	VV	2
PCB254;4	19.864	0.07	7.907		5314	VV	2
	20.131				2497	VV	
PCB260;1	20.298	-0.19	31.46		18267	VE	3
	20.581				2580	EV	
	20.774				10396	VV	
PCB260;2	20.930	4.91	35.30		32736	VV	3
PCB260;3	21.341	1.03	7.477		7595	VE	3
	21.679				809	EV	
	21.926				696	VV	
	22.133				1520	VB	
PCB254;5	22.464	-0.40	7.436		3003	BV	2
PCB260;4	22.651	0.27	7.419		4400	VV	3
	22.838				3422	VV	
	23.056				9232	VE	
	23.458				768	EV	
	23.598				592	EB	
	24.000				61	BB	
PCB260;5	24.600	0.30	1.099	-	396	BB	3
	24.750				2246	BV	
	24.854				1304	VB	
DBUCLE	25.127	0.15	1.109	-	1858	BB	
	26.669				108	BB	
	26.917				996	BB	
CL10BP	32.534	2.89	41.60	-	220	BB	

GROUP REPORT

Group	UG/SAMPLE
1	21.37

2	55.70
3	82.75

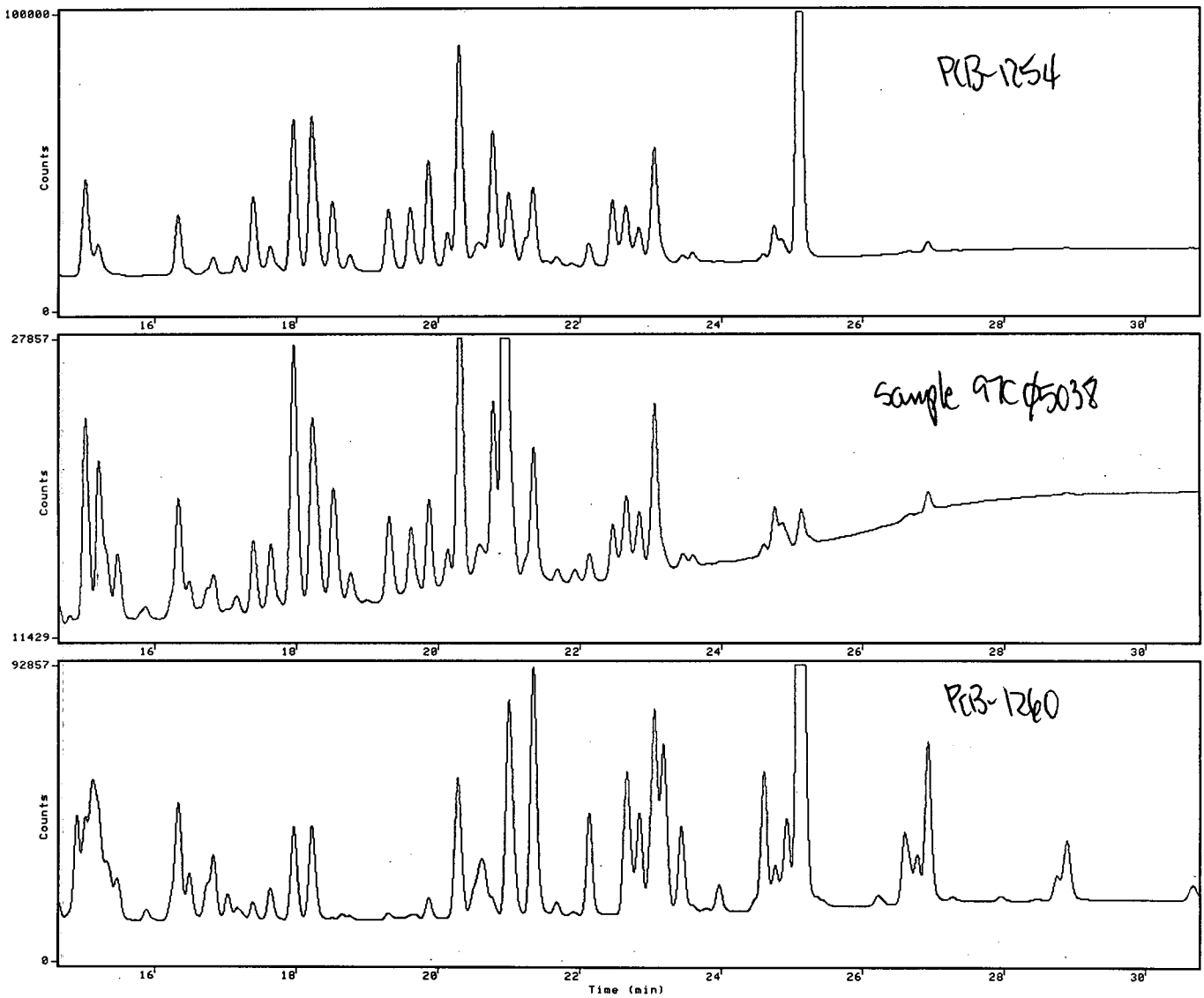
ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Warning, Insufficient data for requested calculation fit. (153)
3: WARNING: Peak windows overlap. Check peak identification. (245)
4: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

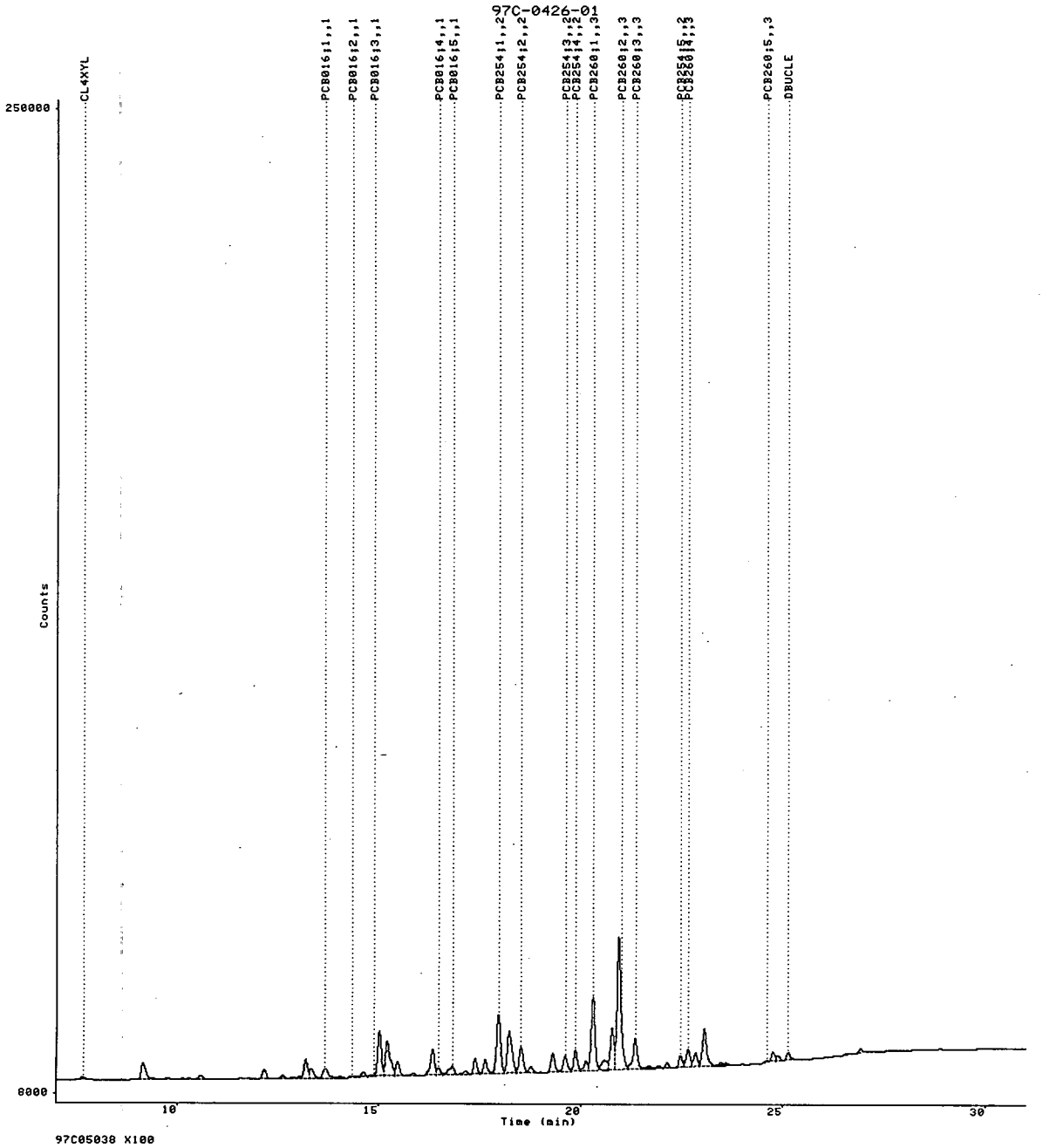
Date: 18-NOV-1997 09:30:34.02

Filename	Start Time	End Time	Minimum Counts	Maximum Counts	Line Type
5997316062	14.62	30.78	0	100000	1
5997316082	14.62	30.78	11429	27857	1
5997316084	14.62	30.78	0	92857	1

PCB-1254 match



Data file: DISK:[TAYLORC]5997316082.RAW;1
Report: 1197250811
Acquired: 16-NOV-1997 08:10:25
Time range: 7.00-31.00



0496

Date.....17-NOV-1997 17:57:01.50 User: TAYLORC
Report number.....1197250812
Raw file.....DISK:[TAYLORC]5997316083.RAW;1
Method file.....DISK:[TAYLORC]5997316_8080P.MET;93
Last method update..17-NOV-1997 17:43:08.94

Device.....Channel 59A, Model 941 Serial Num: 1197513728
Reprocess number....4

Acq. date.....16-NOV-1997 08:47:46
Acq. run time.....34.00 min
Acq. sample rate....3.3333 pt(s)/sec

Sample name.....97C05039 X100
Notes.....97C-0426-01

Author.....J.CHRIS TAYLOR
Instrument.....HP5890 EC-18
Column type.....FUSED SILICA CAPILLARY COLUMN
       length.....30 M
       diameter.....0.53 MM
Stationary phase....DB-608
Mobile phase.....HE
Detector.....ECD
Notes.....METHOD FOR ANALYSIS OF OCPS.

Anal. run time.....	34.001 min	Delay time.....	7.000 min
Area reject.....	100 count(s)	No. peaks found.....	63
Noise threshold.....	10.0 microvolts	Area threshold.....	120
Start peak width....	6.00 sec(s)	Area/Pk.Ht.....	H
Min. window.....	8.00 sec	% window.....	0.00
Analysis type.....	EXTERNAL STANDARD	A/D range.....	1.0 volt(s)
Sample rack.....	25		
Sample vial.....	25		
Analysis fit.....	Quadratic	Origin treatment....	Ignore
Report units.....	UG/SAMPLE		
Sample amount.....	1.00000		
Volume injected.....	1.00000	Conversion factor...	3.33333E+02

TIMED EVENTS TABLE

R.T.(min)	Event codes
24.060	FB

EXTERNAL STANDARD ANALYSIS

Calibration Sample name: (Multilevel)

Peak name	R.T.(min)	T.Diff	UG/SAMPLE	Peak Ht	Ref Std	BL	Group
CL4XYL	7.651	1.24	0.1928 -	712		BB	
	9.144			573		BB	
	9.759			536		BB	
	10.135			56		BB	
	10.584			180		BB	
	11.674			177		BB	
	12.161			334		BB	
	12.624			426		BV	

0497

	12.881				331	VB	
	13.187				638	BV	
	13.328				339	VB	
PCB016;1	13.684	-1.09	0.4497	-	634	BB	1
	14.054				210	BB	
PCB016;2	14.321	1.29	0.1177	-	106	BB	1
	14.618				1553	BV	
PCB016;3	14.788	6.23	2.320		688	VV	1
	15.011				7712	VV	
	15.202				6327	VV	
	15.299				4126	VE	
	15.492				406	EB	
	15.673				76	BV	
	15.855				631	VB	
	16.328				4021	BV	
PCB016;4	16.479	-0.12	7.615		1505	VV	1
	16.736				1380	VV	
PCB016;5	16.813	1.13	4.395		1239	VB	1
	17.144				478	BB	
	17.389				2640	BV	
	17.635				3056	VV	
PCB254;1	17.957	0.19	17.40		16539	VV	2
	18.225				13014	VV	
PCB254;2	18.519	-0.47	20.49		8484	VE	2
	18.760				1486	EV	
	18.991				193	VB	
	19.302				5013	BV	
PCB254;3	19.610	0.17	12.15		4779	VV	2
PCB254;4	19.864	0.04	10.04		6738	VV	2
	20.132				2855	VV	
PCB260;1	20.298	-0.20	37.10		21628	VE	3
	20.583				2826	EV	
	20.773				11571	VV	
PCB260;2	20.994	1.05	9.936		9173	VV	3
PCB260;3	21.342	0.99	9.891		10134	VE	3
	21.680				1021	EV	
	21.923				641	EV	
	22.132				2126	VB	
PCB254;5	22.463	-0.37	7.973		3228	BV	2
PCB260;4	22.651	0.30	9.997		5935	VV	3
	22.838				4649	VV	
	23.057				12901	VE	
	23.458				984	EV	
	23.600				788	EB	
	23.971				194	BB	
PCB260;5	24.601	0.24	1.989		892	BV	3
	24.751				3568	VV	
	24.850				1901	VV	
DBUCLE	25.127	0.11	1.368	-	2730	VB	
	25.602				75	BB	
	26.612				208	BB	
	26.917				1478	BB	
	27.734				465	BB	
	28.879				146	BB	
CL10BP	32.535	2.82	52.76	-	307	BB	

GROUP REPORT

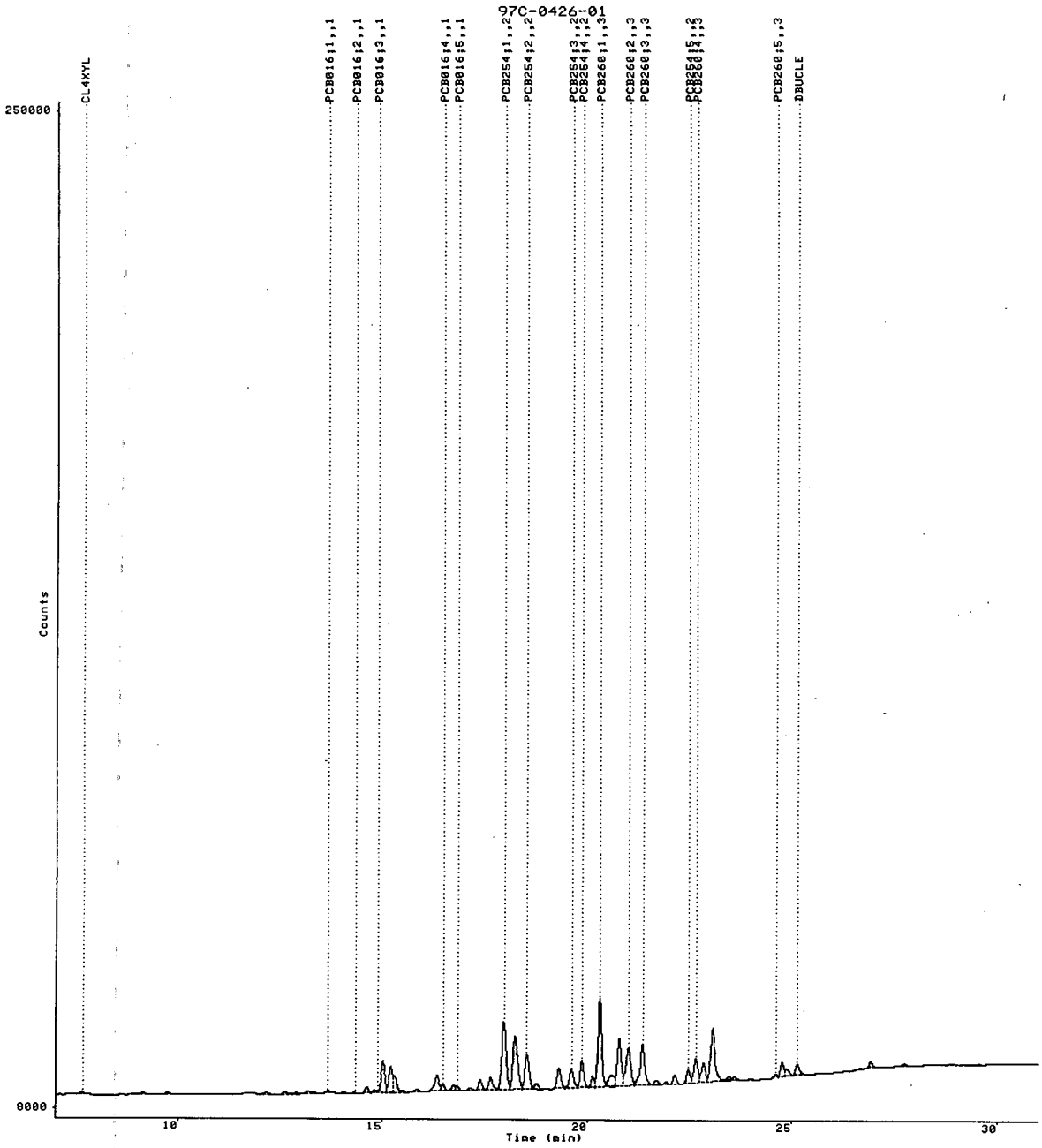
Group UG/SAMPLE

1	14.90
2	68.06
3	68.91

ANALYSIS NOTES

1: Warning, Data unsuited to calculate offset for a named peak. (146)
2: Warning, Insufficient data for requested calculation fit. (153)
3: WARNING: Peak windows overlap. Check peak identification. (245)
4: WARNING: Peak result(s) extrapolated, "+" (above)/"-" (below). (594)

Data file: DISK:[TAYLORC]5997316083.RAW;1
Report: 1197250812
Acquired: 16-NOV-1997 08:47:46
Time range: 7.00-31.00



97C05039 X100

11/18/97 500

WT 12/5/97

Section 5.
Environmental Organic Analysis
(Rev. 1: 3/95)

Confirmation Column Data
Inventory Checklist

NA The confirmation column data as specified in Section 1 of the green sheets.

Section 5.
Confirmation Column Data
Reviewer Checklist

X The confirmation column data inventory checklist above is complete.

X The confirmation column data has been verified for the following:

- Response data are consistent with tabular summary sheets for all data.
- For each analyte on the tabular summary, the retention time is consistent with the mid-range calibration standard.
- The low standards are clearly distinguished from the baseline.
- Integration is consistent with good chromatography practices unless otherwise specified on raw data.
- Spiked analyte and surrogate retention times fall within the applicable retention time windows.
- The chromatograms are scaled no greater than the low calibration standard(s), with the exception of chromatograms that have been re-scaled due to high level hits or matrix.
- Manual edits have been initialed and dated by the analyst.
- All method headers reflect correct analysis data.
- All continuing calibration retention time window criteria have been met.

PERCENT SOLIDS DATA

- DCL Sample Work Orders
- DCL Chain-of-Custodies
- Solids Total Analytical Report
- Solids Total Notebook Pages

DataChem Laboratories
LIMS - Sample Master System
Preparation Group Report

Date: 8-NOV-1997 14:00 Page: 1
User: MANNINGM RLIMS15-V1.2

Preparation Run Name: G97B701X Group ID: G97B701X

Samples: 22

Pos	Laboratory Sample Name	Field Sample Name 1	Field Sample Name 2	Laboratory Sample ID	Laboratory Group Name	Accnt. Number
1	97C05020	MMMSS1		S97B50LG	97C-0426-03	03008
2	97C05020MD	MMMSS1		S97B7004	97C-0426-03	03008
3	97C05021	MMMSED(D)		S97B50LH	97C-0426-03	03008
4	97C05022	MMMNS3		S97B50LJ	97C-0426-03	03008
5	97C05023	MMMND2		S97B50LK	97C-0426-03	03008
6	97C05024	MMMNS2		S97B50LL	97C-0426-03	03008
7	97C05025	PPPNS2		S97B50LM	97C-0426-03	03008
8	97C05026	PPPND2		S97B50LN	97C-0426-03	03008
9	97C05027	PPPND1		S97B50LP	97C-0426-03	03008
10	97C05028	PPPNS1		S97B50LQ	97C-0426-03	03008
11	97C05029	PPPSED(D)		S97B50LR	97C-0426-03	03008
12	97C05030	PPPSED(S)		S97B50LS	97C-0426-03	03008
13	97C05031	OOONS3		S97B50LT	97C-0426-03	03008
14	97C05032	OOOND1		S97B50LV	97C-0426-03	03008
15	97C05033	OOONS1		S97B50LW	97C-0426-03	03008
16	97C05034	OOOND2		S97B50LX	97C-0426-03	03008
17	97C05035	OOONS2		S97B50LY	97C-0426-03	03008
18	97C05036	OOOSD2		S97B50LZ	97C-0426-03	03008
19	97C05037	OOOSED(D)		S97B50M0	97C-0426-03	03008
20	97C05038	OOOSED(S)		S97B50M1	97C-0426-03	03008
21	97C05039	OOOSS1		S97B50M2	97C-0426-03	03008
22	97C05039MD	OOOSS1		S97B7005	97C-0426-03	03008

----- END OF LISTING -----

Sample Work Order

QC Clearance: _____
Project Manager: Scott B. Saulls
Client: Roy F. Weston
Account: 03008 **SDG:** MMMND2
Project/Task: P97B5002
Date Received: 6-Nov-1997
Date for Mailing Report: 26-Nov-1997
Date for Verbal Report: 20-Nov-1997

DCL Root Set ID: 97C-0426*
DCL Lab. Name: 97C05020–97C05039
Total # Samples: 20
Sample Entry: Michael D McMillan
Section: FS
Earliest Sampling Date: 5-Nov-1997
Preparation Type:

Rep. Group	FS Section Analytes Requested	Latest Prep. Date	Latest Anal. Date	No. of Samp.	Storage Location	Analysis/Prep. Method	Inst.	Matrix
03	Solids (Total)			20		XX-EP-800	GRAV	SOIL

Special Instructions: Samples + chain w /61 (ZG)

Section Manager: Michael P. Beesley

Other Sections Receiving Sample Portions: ZC, FC

0504

Notice to Laboratory Personnel

Background

Under the authority of Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, Section 311 of the Clean Water Act, and Subtitle I of the Resource Conservation and Recovery Act (RCRA), EPA has been delegated the responsibility to undertake response actions with respect to the release or potential release of oil, petroleum, or hazardous substances that pose a substantial threat to human health or welfare, or the environment. In addition, EPA provides technical assistance to help mitigate endangerment of the public health, welfare or environment during other emergencies and natural disasters.

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Superfund Technical Assessment and Response Team (START) for each EPA Region. The WESTON START Contract 68-W5-0019 provides support to EPA Region II.

Hazard Communication

The samples which accompany this notice have been shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON START and were tentatively designated by the field response team as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, wells, and off-site soils that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples*. Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a Geiger-Mueller radiation survey meter are considered *Radioactive Samples*.

The samples which accompany this notice have been tentatively classified by the field response team as:

X Environmental ____ Hazardous ____ Comb. (Envir.& Haz.) ____ Radioactive

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions to provide protection against possible radiological or chemical exposure:

____ Level A ____ Level B ____ Level C X Level D

This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The sample classification(s) and Levels of personal protection used by the WESTON START are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgement.

This form was prepared by: M. Mahkopf Date 11/15/97

Analytical Services TDD No. _____ Date __/__/__

WESTON Office: Region II START, Edison, NJ Phone: 908-225-6116 FAX: 908-225-7037

Laboratory Name: Data Chem Lab

/Hazcom for Laboratory Personnel/ To be attached to each Chain-of-Custody Form

Earliest Sampling Date: 5-Nov-1997

DataChem Laboratories
CHAIN-OF-CUSTODY

Results due by: 26-Nov-1997

Project/Job/Task: P97B5002 | Split: | Root Set ID: 97C-0426 * | Reporting Group

Client: Roy F. Weston | Account: 03008

Comments:

Verified: HM 11-6-97

Date Sampled	Field ID Number	DCL Sample Name	DCL Sample ID	QC	Matrix	Customer ID 2					01 PCBs	02 Solids (Decanted)	03 Solids (Total)							# Bottles
5-Nov-1997	MMMSS1	97C05020			SOIL						X	X	X							1
5-Nov-1997	MMMSED(D)	97C05021			SOIL						X	X	X							1
5-Nov-1997	MMMNS3	97C05022			SOIL						X	X	X							1
5-Nov-1997	MMMND2	97C05023			SOIL						X	X	X							1
5-Nov-1997	MMMNS2	97C05024			SOIL						X	X	X							1
5-Nov-1997	PPPNS2	97C05025			SOIL						X	X	X							1
5-Nov-1997	PPPND2	97C05026			SOIL						X	X	X							1
5-Nov-1997	PPPND1	97C05027			SOIL						X	X	X							1
5-Nov-1997	PPPNS1	97C05028			SOIL						X	X	X							1
5-Nov-1997	PPPSED(D)	97C05029			SOIL						X	X	X							1

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Walk-in/ Room/ Shelf/ Fridge Michael [illegible]	11-6-97 1800	R23-1	Labeling/Shelving CO2
R-23-1	11-10-97 2335	Walk-in/ Room/ Shelf/ Fridge Kevin [illegible]	Storage:
Kevin [illegible]	11-11-97 0415	R-16-5	STORAGE R-16-5
RIGS MEM	11/12/97 11:00	SAMPLE PREP GROUP RM 20 BK # 3319 IN. MEM	% Solids

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: % Solids

Prepared/Analyzed by: BK # 3319 IN. MEM

Lab Notebook No.: 3319

Date/Time:

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location

Check box if there is a continuation page ☐

Form: COFC1.01-SWV2.30

Printed 11/6/1997 16:58

Earliest Sampling Date: 5-Nov-1997

DataChem Laboratories
CHAIN-OF-CUSTODY

Results due by: 26-Nov-1997

Project/Job/Task: P97B5002 | *Split:* | **Root Set ID:** 97C-0426 * | **Reporting Group**

Client: Roy F. Weston | **Account:** 03008

Comments:

Verified: Hm 11-6-97

Date Sampled	Field ID Number	DCL Sample Name	DCL Sample ID	QC	Matrix	Customer ID 2					01 PCBs	02 Solids (Decant-ed)	03 Solids (Total)							# Bottles
5-Nov-1997	PPPSED(S)	97C05030			SOIL						X	X	X							1
5-Nov-1997	OOONS3	97C05031			SOIL						X	X	X							1
5-Nov-1997	OOOND1	97C05032			SOIL						X	X	X							1
5-Nov-1997	OOONS1	97C05033			SOIL						X	X	X							1
5-Nov-1997	OOONS1	97C05033MS		MS	SOIL						X									1
5-Nov-1997	OOONS1	97C05033MSD		MSD	SOIL						X									1
5-Nov-1997	OOOND2	97C05034			SOIL						X	X	X							1
5-Nov-1997	OOONS2	97C05035			SOIL						X	X	X							1
5-Nov-1997	OOOSD2	97C05036			SOIL						X	X	X							1
5-Nov-1997	OOOSED(D)	97C05037			SOIL						X	X	X							1

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Walk-in/Room/Shelf/Fridge	11-6-97 1800	R23-1	Labeling/Shelving C02
R-23-1	11-10-97 2335	Walk-in/Room/Shelf/Fridge Kevin Nottenmyer	Storage: Ex4
Kevin Nottenmyer	11-11-97 0415	R-16-5	STORAGE /R-16-5
R-16-5 mrm	11/12/97 11:00	SAMPLE PREP GROUP RM 20 BK# 3319 mrm	1L so solids

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: 1L solids SAMPLE PREP GROUP RM 20 | Lab Notebook No.: 3319

Prepared/Analyzed by: BK# 3319 mrm | Date/Time:

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location

Check box if there is a continuation page ☐

Printed 11/6/1997 16:59

Form: COFC1.01-SWV2.30

Earliest Sampling Date: 5-Nov-1997

DataChem Laboratories
CHAIN-OF-CUSTODY

Results due by: 26-Nov-1997

Project/Job/Task: P97B5002 | Split: | Root Set ID: 97C-0426 * | Reporting Group

Client: Roy F. Weston | Account: 03008

Comments:

Verified: HM 11-6-97

Date Sampled	Field ID Number	DCL Sample Name	DCL Sample ID	QC	Matrix	Customer ID 2			Analysis		01 PCBs	02 Solids (Decant-ed)	03 Solids (Total)							# Bottles
5-Nov-1997	OOOSED(S)	97C05038			SOIL						X	X	X							1
5-Nov-1997	OOOSS1	97C05039			SOIL						X	X	X							1

ORIGINAL FIELD SAMPLE CHAIN-OF-CUSTODY

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location
Walk-in/Room/Shelf/Fridge	11-6-97 1800	R23-1	Labeling/Shelving CO2
R-23-1	11-10-97 3335	Walk-in/Room/Shelf/Fridge Kevin Nottemeyer	Storage: Ex7
Kevin Nottemeyer	11-11-97 0415	R-16-5	STORAGE/R-16-5
R16-5 MKM	11/12/97 11:00	3319 MKM	% solids

SAMPLE PREPARATION / ANALYSIS CHAIN-OF-CUSTODY

Sample Prep/Analysis for: % solids | Lab Notebook No.: 3319

Prepared/Analyzed by: SAMPLE PREP GROUP RM 20 BK # 3319 IN MKM | Date/Time:

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/ Storage Location

Check box if there is a continuation page ☐

Form: COFC1.01-SWV2.30

Printed 11/6/1997 16:59

DATA CHEM LABORATORIES
A Sorenson Company

ANALYTICAL REPORT

Form ARF-AL
Page 1 of 2
Part 1 of 1
11189714284161

Date _____
Laboratory Group Name 97C-0426-03
Account No. 03008

Roy F. Weston
Attention: Smita Sumbaly
1090 King Georges Post Road, Suite 201
Edison, NJ 08837

FAX (908) 225-7037
Telephone (908) 225-6116

Sampling Collection and Shipment

Sampling Site _____ Date of Collection November 05, 1997

Date Samples Received at Laboratory November 06, 1997

Analysis

Method of Analysis XX-EP-800

Date(s) of Analysis November 12, 1997

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Solids (Total) %								
MMMSS1	97C05020	SOIL	36.5								
MMMSS1	97C05020MD	SOIL	38.9								
MMMSED(D)	97C05021	SOIL	60.2								
MMMNS3	97C05022	SOIL	54.3								
MMMND2	97C05023	SOIL	67.9								
MMMNS2	97C05024	SOIL	55.7								
PPPNS2	97C05025	SOIL	61.1								
PPPND2	97C05026	SOIL	42.7								
PPPND1	97C05027	SOIL	66.0								
PPPNS1	97C05028	SOIL	63.7								
PPPSED(D)	97C05029	SOIL	78.1								
PPPSED(S)	97C05030	SOIL	59.5								
OOONS3	97C05031	SOIL	63.4								

† See comment on last page.
ND Parameter not detected above LOD.
NR Parameter not requested.

** See comment on last page.
( ) Parameter between LOD and LOQ.

Michelle Manning
Analyst: Michelle R. Manning

Trinh Le
Reviewer: Trinh T. Le

0509

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547
Phone (801) 266-7700 Web Page: www.datachem.com
FAX (801) 268-9992 E-mail: lab@datachem.com

DATA CHEM LABORATORIES
A Sorenson Company

ANALYTICAL REPORT

Form ARF-BL
Page 2 of 2
Part 1 of 1
11189714284161

Date _____
Laboratory Group Name 97C-0426-03

Analytical Results

Field Sample Number	Laboratory Number	Sample Type	Solids (Total) %								
000ND1	97C05032	SOIL	75.1								
000NS1	97C05033	SOIL	63.3								
000ND2	97C05034	SOIL	57.0								
000NS2	97C05035	SOIL	65.6								
000SD2	97C05036	SOIL	67.4								
000SED(D)	97C05037	SOIL	82.1								
000SED(S)	97C05038	SOIL	55.5								
000SS1	97C05039	SOIL	48.0								
000SS1	97C05039MD	SOIL	49.3								
Limit of Detection											

† See comment on last page.
ND Parameter not detected.above LOD.

** See comment on last page.
( ) Parameter between LOD and LOQ.

0510

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700
FAX (801) 268-9992

From Page No.

insertion of percent solids for set I.D. 97C-0426-03 below:

Acct #

METHOD: XX-EP-800, rev Balance ID#

Set ID #	LIMS User Name	DCL Sample ID	EPA field id (if applicable)	Dish ID	Dish Wt.	Wet+Dish	Dry+Dish	Wet Wt.	Dry Wt.	%Solid	%Moist	Date IN	Time IN	Temp IN C	Date OUT	Time OUT	Temp C
97C-0426-03	MANNINGM	97C05020	MMMSS1	14	1.3324	9.6891	4.3788	8.3567	3.0464	36.5	63.5	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05020MD	MMMSS1	111	1.3269	7.3583	3.6717	6.0314	2.3448	38.9	61.1	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05021	MMMSED(D)	110	1.3093	7.9807	5.3236	6.6714	4.0143	60.2	39.8	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05022	MMMNS3	3	1.317	8.2001	5.0518	6.8831	3.7348	54.3	45.7	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05023	MMMND2	2	1.3117	7.1518	5.2789	5.8401	3.9672	67.9	32.1	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05024	MMMNS2	1	1.3242	8.0223	5.0572	6.6981	3.733	55.7	44.3	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05025	PPPNS2	13	1.3174	8.2072	5.5263	6.8898	4.2089	61.1	38.9	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05026	PPPND2	43	1.3065	9.3644	4.7482	8.0579	3.4417	42.7	57.3	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05027	PPPND1	12	1.3172	8.8469	6.2884	7.5297	4.9712	66.0	34.0	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05028	PPPNS1	77	1.3273	9.4042	6.4695	8.0769	5.1422	63.7	36.3	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05029	PPPSED(D)	112	1.3169	7.5095	6.1510	6.1926	4.8341	78.1	21.9	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05030	PPPSED(S)	76	1.3116	7.0616	4.7322	5.75	3.4206	59.5	40.5	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05031	OOONS3	35	1.3155	8.3277	5.7600	7.0122	4.4445	63.4	36.6	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05032	OOOND1	11	1.3353	7.5979	6.0369	6.2626	4.7016	75.1	24.9	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05033	OOONS1	95	1.341	7.2113	5.0542	5.8703	3.7132	63.3	36.7	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05034	OOOND2	69	1.3063	8.7448	5.5499	7.4385	4.2436	57.0	43.0	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05035	OOONS2	68	1.3151	7.5215	5.3895	6.2064	4.0744	65.6	34.4	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05036	OOOSD2	38	1.3232	8.0091	5.8328	6.6859	4.5096	67.4	32.6	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05037	OOOSED(D)	39	1.3277	7.3413	6.2633	6.0136	4.9356	82.1	17.9	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05038	OOOSED(S)	42	1.3231	7.0503	4.4993	5.7272	3.1762	55.5	44.5	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05039	OOOSS1	67	1.3334	7.0233	4.0619	5.6899	2.7285	48.0	52.0	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107
97C-0426-03	MANNINGM	97C05039MD	OOOSS1	66	1.3031	7.0532	4.1356	5.7501	2.8325	49.3	50.7	1997-11-12	12:45 PM	102	1997-11-13	11:30 AM	107

MRM 11/18/97

MRM 11/18/97

To Page No. X

Witnessed & Understood by me,	Date	Invented by NOT APPLICABLE	Date
[signature]	11/18/97	Recorded by Michael Manning	11/18/97

FedEx USA Airbill FedEx Tracking Number 801903172357 0200 Form I.D. No. Recipient's Copy

1 From

Date 11/5/97

Sender's Name Mike Mamkopf Phone 9082256116

Company Roy F. Weston

Address 1090 King Georges Post Rd Suite 201 Dept/Floor/Suite/Room

City Edison State NJ ZIP 08837

2 Your Internal Billing Reference Information

3 To

Recipient's Name Scott Saulls Phone 801 266-7700

Company Data Chem Lab

Address 960 West Levoy Dr. Dept/Floor/Suite/Room

(To "HOLD" at FedEx location, print FedEx address here)

☐ Check here if residence (Extra charge applies for FedEx Express Saver)

City Salt Lake City State UT ZIP 84123

For HOLD at FedEx Location check here

☐ **Hold Weekday** (Not available with FedEx First Overnight)

☐ **Hold Saturday** (Not available at all locations) (Available for FedEx Priority Overnight and FedEx 2Day only)

For Saturday Delivery check here

☐ (Extra Charge. Not available to all locations) (Available for FedEx Priority Overnight and FedEx 2Day only)

8 0 1 9 0 3 1 7 2 3 5 7

4a Express Package Service *Packages under 150 lbs.* Delivery commitment may be later in some areas.

☒ FedEx Priority Overnight (Next business morning)

☐ FedEx Standard Overnight (Next business afternoon)

☐ FedEx 2Day* (Second business day)

☐ FedEx Express Saver* (Third business day)

☐ FedEx First Overnight (Earliest next business morning delivery to select locations) (Higher rates apply)

* FedEx Letter Rate not available. Minimum charge: One pound rate.

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

☐ FedEx Overnight Freight (Next business day)

☐ FedEx 2Day Freight (Second business day)

☐ FedEx Express Saver Freight (Up to 3 business days)

(Call for delivery schedule. See back for detailed descriptions of freight services.)

5 Packaging

☐ FedEx Letter ☐ FedEx Pak (Declared value limit $500) ☐ FedEx Box ☐ FedEx Tube ☒ Other Pkg.

6 Special Handling

Does this shipment contain dangerous goods? ☐ Yes (As per attached Shipper's Declaration) ☐ Yes (Shipper's Declaration not required)

☐ Dry Ice — Dry Ice, 9, UN 1845 III ____ x ____ kg 904 (Dangerous Goods Shipper's Declaration not required)

CA ☐ Cargo Aircraft Only

7 Payment

Bill to: ☒ Sender (Account no. in section 1 will be billed) ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

(Enter FedEx account no. or Credit Card no. below)

☐ Obtain Recipient FedEx Account No.

Total Packages	Total Weight	Total Declared Value*	Total Charges
5	251	$ .00	$

* When declaring a value higher than $100 per shipment, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE, AND LIMIT OF LIABILITY section for further information.

Credit Card Auth.

8 Release Signature

Your signature authorizes Federal Express to deliver this shipment without obtaining a signature and agrees to indemnify and hold harmless Federal Express from any resulting claims.

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Questions?
Call 1·800·Go·FedEx (800)463-3339

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0512

SAMPLE LOG-IN SHEET

Group Name: 97C-0426

Lab Name: DataChem Laboratories, Inc.	Page 1 of 1
Received By (Print Name): MICHAEL MCMILLAN	Log-In Date: 11-6-97
Received By (Signature): Michael McMillan	
Case Number: NA	Sample Delivery Group No.: MMMND2 / SAS Number: Not Applicable

Remarks:

1. Custody Seal (s) — Present/Absent* — Intact/Broken*
2. Custody Seal Nos. NA
3. Chain-of Custody Records — Present/Absent*
4. Traffic Report or Packing Lists — Present/Absent*
5. Airbill — Airbill/Sticker — Present/Absent*
6. Airbill No. 8019 0317 2357
7. Sample Tags — Present/Absent* — Sample Tag Numbers — Listed/Not Listed on Chain-of-Custody
8. Sample Condition — Intact/Broken*/Leaking* — Cooler Temperature 6°C
9. Does information on custody records, traffic reports, and sample tags agree? — Yes/No*
10. Date Received at Lab 11-6-97
11. Time Received 0900

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Matrix	Fraction	Remarks: Condition of Sample Shipment, etc.
MMMSS1	NA	97C05020	S	PCB	ACCEPTABLE
SED(D)		21			
NS3		22			
ND2		23			
NS2		24			
PPP NS2		25			
ND2		26			
ND1		27			
NS1		28			
SED(D)		29			
SED(S)		30			
OOO NS3		31			
ND1		32			
NS1		33			MS/MSD
ND2		34			
NS2		35			
SD2		36			
SED(D)		37			
SED(S)		38			
SS1		39			

Sample Transfer

Fraction: PCB	Fraction:
Area #: R23-1	Area #:
By: [illegible]	By:
On: 11-6-97	On:

[illegible] 11-6-97

* Contact SMO and attach record of resolution

Reviewed By: [illegible]	Logbook No.: Not Applicable
Date: 11-6-97	Logbook Page No.: Not Applicable

0513

FRACTIONS:
C - Cyanide
D - Dissolved Metals
T - Total Metals
F - Full TCL Organics
P- Pesticides
S - Semivolatiles
V - Volatiles

FORM DC-1

08/01/97

DATACHEM LABORATORIES CLIENT-RELATED INFORMATION REPORT (CRIR)

COOLER OR CONTAINER INFORMATION CHECKLIST (Fill In or Circle)

Client Name: WESTON EPA

Project/Task/Site:

Date/Time of Receipt: 11-06-97 0900

Number of Coolers Received: 5

Condition of Coolers: Acceptable/Unacceptable

Temperature Control: Present/Not Included

Custody Seals: Present/Absent/NA

Location Temperature Taken: Control/Between Samples

Intact/Broken/NA

Are all temperatures within project specific guidelines? Yes/No/NA

Tamper Evident: Yes/No/NA

Ice Present: Yes/No/NA

Are all applicable pHs within specific guidelines? Yes/No/NA

Frozen/Melted/NA

pH Check:

Metals	Yes/No/NA	Total Phenolics	Yes/No/NA	NO3/NO2	Yes/No/NA
Cyandie	Yes/No/NA	TPH - 418.1	Yes/No/NA	Oil & Grease	Yes/No/NA
Sulfide	Yes/No/NA	COD	Yes/No/NA	Total Phosphorous	Yes/No/NA
Ammonia	Yes/No/NA	TKN	Yes/No/NA	Gross A/B, Gamma Spec	Yes/No/NA

Cooler Received	DCL Cooler No.	Temp.	Cooler Received	DCL Cooler No.	Temp.	Cooler Received	DCL Cooler No.	Temp.
1	C97 1510	7 °C	4	C97 1513	7 °C	7	C97	°C
2	C97 1511	8 °C	5	C97 1514	8 °C	8	C97	°C
3	C97 1512	6 °C	6	C97	°C	9	C97	°C

Taken By: [signature] Signature — P Lorum Printed Name — 11-06-97 Date

CLIENT-RELATED INFORMATION

- ☐ Missing Cooler
- ☐ Cooler Conditions
- ☐ Missing Paperwork
- ☐ Missing/Incorrect Bottle Labels
- ☐ Missing Samples/Bottles
- ☐ Broken/Leaking Samples
- ☐ Incorrect Bottle Type
- ☐ Cooler Temperatures Out Of Range
- ☐ Incorrect Preservation
- ☐ pH Criteria Not Met
- ☐ Head Space in Bottles
- ☐ Insufficient Sample Volume
- ☐ Chain Of Custody Problems
- ☐ Other:

EPA Custody Seal:

BRIEFLY DESCRIBE THE PROBLEM AND THE ACTION TAKEN:

Faxed to Client? Yes ☐ No ☐ (If yes, attach Fax Cover Sheet)

❖ **Response Required Within 24 Hours** ❖

PROJECT MANAGEMENT

PROJECT MANAGER COMMENTS:

DCL Project Manager: _____ Printed Name

Returned to Sample Receipt by: _____ Signature

Date: 0514

(Revised 6/4/97)